FOLD HERE →

118347

LICENCE NO.:	WELL NAME AND NO.:
SDL 95	CHEVRON ET AL KINEO K-29 60° 30'N 123° 30'W
OPERATOR: CHEVRON CANADA RESOURCES	CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-29 60° 30'N 123° 30'W	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 91 MONTH 08 DAY 26

RIG NO.: 48

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26	TOTALS
	MORN.																									
	DAY																									
	EVE.																									
	TOTAL																									

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
				WAIT ON CREW FLIGHT

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
				WAIT ON CREW FLIGHT

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

OCT - 7 1999

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118346

LICENCE NO.: SDL | WELL NAME AND NO.: CHEVRON ET AL KINGAK K-76 60°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES. | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-76 60°30'N 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 17 | MONTH 05 | DAY 05

RIG NO.: 48

FUEL @ 8:00

RIG: 48 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP & B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Clean up Rig W.O. Flight.				
MORN.	8																									
DAY																						12				
EVE.																										
TOTAL																										

TOTALS

	8
	12

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Don Thom

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	1	Tear off Rig

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Don Thom

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	CLEAN UP RELEASE.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	23	WAIT ON CREW FLIGHT.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118345

LICENCE NO.: SDL 99	WELL NAME AND NO.: CHEVRON ETAL LIARD K-J 60°30'N, 123°30'W
OPERATOR: CHEVRON CAN. RES.	CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-J 60°30'N, 123°30'W	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well Licensee & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
19	08	09

RIG NO. 48

FUEL @ 8:00

RIG 53 BOILER

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 WELL HEAD	24 CHOKE LINES	25	26
	MORN.							1/4							4								1/2	3 1/4		
	DAY	12																								
	EVE.	4																								
	TOTAL																									

TOTALS

	8
	12

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	04:00	4	14
04:00	04:30	1/2	22
04:30	07:45	3 1/4	23
07:45	8:00	1/4	7

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NIPPLE DOWN B.O.P'S
INSTALL WELL HEAD
R/U ON CHOKE LINES
R/S

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	15:00	7	1
15:00	16:00	1	1
16:00	18:15	2 1/4	1
18:15	20:00	1 3/4	1

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEAR OUT Rig Floor + Mousehole Work.
INSPECT DERRICK THROUGH
SPOOL UP DRILLING LINE.
TEAR OUT Rig

Rig Released To Engage Standby
with all Warranty at 1.03.D of Contract
@ 12:00 Aug 4/99

NOTES Safety Inspect Derrick Line To Standby

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	24:00	4	1

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEAR OUT RIG

Thanks for the Great Job.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118344

LICENCE NO.:	WELL NAME AND NO.:
SDL 99	CHEVRON ET AL LINDEN K-29 60° 30' N 123° 30' W
OPERATOR:	**CONTRACTOR:**
CHEVRON Can. Res.	AKITA DRILLING LTD.
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60° 30' N 123° 30' W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
91	08	03

RIG NO. 48

FUEL @ 8:00

RIG	BOILER
50	7CC-31

WEATHER	
TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.						4 3/4	1/4								1						1/4	1	WAIT ON TOOLS	W.O. P.P.E.	SPACE OUT
	DAY						6 3/4	1/4																1	2 1/2	1 1/2
	EVE.																									
	TOTAL																									

TOTALS 8

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:00	1	15	PRESS TEST TOP RAMS 1 Hydril 35000 Kpa H/Cr
01:00	02:00	1	22	RIG UP TO RUN CASING
02:00	02:45	3/4	23	MAKE UP LATCH ASSEMBLY
02:45	03:00	1/4	21	SAFETY MEETING
03:00	07:45	4 3/4	6	RUN 7" CASING
07:45	08:00	1/4	7	RIG FOR TOP RAMS

NOTES: V. BRAKES, LINKAGE, CROWN SAVER, CLAMP, A/C HOSE

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1	23	CHANGE OUT RAM RUBBERS + INSTALL LATCH STRIKING BOARD
09:00	15:45	6 3/4	6	RUN 7" CSG.
15:45	18:15	2 1/2	24	WAIT ON PIPE TO START.
18:15	18:30	1/4	7	RIG SERVICE CHECK A/C, MAKE UP MISC
18:30	20:00	1 1/2	25	MEASURE PIPE IN + SPACE OUT.

NOTES: V. Brakes, Linkage, Crown Saver, Clamp, A/C Hose

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				ENVIRONMENTAL	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	21:15	1 1/4	25	SPACE OUT + LAND DOG NUT
21:15	23:15	2	24	PRESS TEST ALL LINES + TUBINGS TO 21000 Kpa/10min
23:15	23:45	1/2	14	CHANGE OUT RAMS & NIPPLE DOWN BOPS
23:15	24:00	1/4	7	RIG

NOTES: V. Brakes, Linkage, Crown Saver, Clamp, A/C Hose

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118343

LICENCE NO.: SDL 99
WELL NAME AND NO.: CHEVRON ET AL LINRO K-2960°30'N 123°30'W
OPERATOR: CHEVRON CAN. RES.
CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-2960°30'N 123°30'W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 08 | DAY 09
RIG NO.: 48
FUEL @ 8:00
RIG 63 | BOILER 12.31

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION 20'S; ROAD 65 FRS

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.						4½	¼				1½											Lay D. Collar	Pick up	B.O.P. DRILL	Lay down Truck	Change Rams
	DAY						8	¼														¼	½	1¼	¼	½	
	EVE.						13¼	¼														¼		2¾			1¼
	TOTAL																										

TOTALS

8	
12	
4	

SHALE SHAKER(S)

NO. | TYPE
SCREENS CHANGED ☐ YES ☐ NO
TOP | TOP
MIDDLE | MIDDLE
BOTTOM | BOTTOM

RENTALS/SERVICES — MORN. | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC — 1000 daN
WT. OF STRING — 1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED
TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
TRIP RECORD		
HRS	7.17	
CUM.	5.61	
DIFF.	1.56	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:30	1½	6	HOIST TO BTM'G. FLOAT OUT OF HOLE
01:30	01:45	¼	7	RIG FOR BLIND RAMS
01:45	02:00	¼	22	RIG UP WIRE LINE
02:00	03:30	1½	11	RUN WIRE LINE
03:30	03:45	¼	22	RIG OUT WIRE LINE
03:45	05:00	1¼	03	MAKE UP TOOL ASSEMBLY
05:00	08:00	3	6	RIH W/ DRILL STRING

NOTES: 4 STDS. DRILL COLLARS, CROWN SAVER, CLAMP, ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC — 1000 daN
WT. OF STRING — 1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED
TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:15	¼	21	HELD B.O.P. DRILL w/ CREW, WELL SECURED IN 75 SEC
08:15	11:15	3	6	RUN IN HOLE w/ TUBING.
11:15	14:00	2¾	23	STING IN w/ PACKER / PRESSURE UP ANNULUS / SET PACKER. GETTING BALL / RIG IN CEMENTERS / SET PACKER.
14:00	14:30	½	25	RIG IN LAY DOWN TRUCK
14:30	14:45	¼	7	RIG SERVICE. CLOSE TOP RAMS TEST TO 1000 PSI OK
14:45	15:00	¼	21	HELD SAFETY MEETING (PRE TRIPPING OUT TUBING)
15:00	20:00	5	6	TRIPPING OUT TUBING

NOTES: 4 STDS. DRILL COLLARS, CROWN SAVER, CLAMP, ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				LAYING DOWN TUBING	

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC — 1000 daN
WT. OF STRING — 1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED
TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

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DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
TRIP RECORD		
HRS	6.37	
CUM.	5.61	
DIFF.	.71	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	¼	21	SAFETY MEETING
20:15	20:00	1¾	6	LAY DOWN TUBING
20:00	20:15	¼	7	RIG FOR BLIND RAMS F/ FLOOR 6 SEC'S
20:15	23:45	3½	23	LAY DOWN COLLARS
23:45	24:00	¼	26	CHANGE OUT RAMS

NOTES: 4 STDS. DRILL COLLARS, CROWN SAVER, CLAMP, ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118342

LICENCE NO.: SDL

WELL NAME AND NO.: CHEVRON ET AL LINDO K-27 60°30'N 123° 30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: ARTA DRILLING LTD

SURFACE LOCATION: K-27 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 MONTH 02 DAY 27

RIG NO. 48

FUEL @ 8:00

RIG 70 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION 743; ROAD 6560611

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	HOT OILER	JSW VALVE	REMOVE WELL HEAD	DOG NUT	CROWN SAVER	
MORN.							1/4							5	1							1	1/2				8
DAY					1 1/2	1 1/4	1/4								7						1/4				1	3/4	12
EVE.						3/4	1/4														1/4						1/2
TOTAL																											

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES — MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

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DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:00	1	22	MONITOR WELL, WAIT FOR PRESS TO STABILIZE
01:00	01:15	1/4	23	INSTALL BAKER 2 WAY BACK PRESSURE VALVE
01:15	01:45	1/2	24	REMOVE WELL HEAD
01:45	06:45	5	14	NIPPLE UP B.O.P.'S
06:45	07:00	1/4	7	RIG SERVICE
07:00	08:00	1	15	PRESS TEST MANIFOLD 1400 KPA Low 24500 KPA HIGH

NOTES: V-DOOR, BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

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DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	15:00	7	15	PRESS TEST BLIND RAMS, UPPER + LOWER RAMS TO 1400 KPA Low + 24500 High + PIL RELATED VALVES / PERFORM ACCUM TO 4000 KPA Low 14000 KPA High / ACCUM. FUNCTION TEST / FUNCTION KILLS / PRESS TEST MANIFOLD + FLOOR VALVES + KILL LINES TO 1400 Low 24500 High
15:00	15:15	1/4	7	RIG SERVICE
15:15	15:30	1/4	21	SAFETY MEETING
15:30	16:30	1	25	PULL OUT DOG NUT + UNSCREW JOINT FROM HANGER
16:30	17:15	3/4	26	R.U TO CEMENTERS / PRESS TEST + TREATING
17:15	18:45	1 1/2	5	RELEASE CEMENTERS / CIRCULATE W/ CEMENTERS.
18:45	20:00	1 1/4	6	HOIST TUBING + BHA TO 3500 MSL

NOTES: V-DOOR, SAVER, BRAKES, LINKAGE, FOOTWORK, CHAIN, ANCHOR. EVERYTHING MOVING RUNS

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				PULLING TUBING.	

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

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DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	1/4	21	SAFETY MEETING
20:15	22:00	1 3/4	6	HOIST TUBING FROM 3500 MSL
22:00	22:15	1/4	27	BOP DRILL, WELL SECURED ON 1st TOOL JOINT ABOVE
22:15	23:45	1 1/2	6	HOIST TUBING
23:45	24:00	1/4	7	R/S FUNC. ANNULAR 17 SEC 76 F/FLOOR

NOTES: V-BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				PULLING TUBING	

FOLD HERE →

118341

LICENCE NO.: SOL 99

WELL NAME AND NO.: CHEVRON ET AL LAKE K-27 60° 30' N 123° 30' W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60° 30' N 123° 30' W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 91 MONTH 07 DAY 31

RIG NO. 48

FUEL @ 8:00

RIG 75 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					W.O.O.	Rig up Wireline	Rig up Jones	Wait on	
	DAY											4 3/4				1						4/4	2	2 1/4	3/4	1
	EVE.																									4
	TOTAL											4 3/4				1						4/4	10	2 1/4	3/4	5

TOTALS	
	8
	12
	4
	24

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP TOP

MIDDLE MIDDLE

BOTTOM BOTTOM

RENTALS/SERVICES — MORN. DAY EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

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DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	WAIT ON ORDERS.

NOTES: V BRAKES, L WRENCH, CROWN SAVER, CLAMP, ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:00	2	22	WAIT ON ORDERS.
10:00	10:45	1 3/4	23	RIG TO WIRELINE + CEMENTERS.
10:45	12:00	1/4	21	H₂O SAFETY MEETING PRIOR TO PRESS TESTING LINE.
12:00	13:15	1/4	15	PRESS TEST LUBRICATOR TO 11000 kPa (w 3% KCl)
13:15	13:15	1	11	WIRELINE w/ GR Tool (WIRE BROKEN)
13:15	14:00	3/4	24	PUMP 10 m³ INHIBITED WATER DOWN TUBING
14:00	17:00	3	11	WIRELINE PRN PLUG.
17:00	17:45	3/4	15	PRESS TEST PRN PLUG TO 18,000 kPa. (WITH CAR THERMOMETER)
17:45	18:30	3/4	11	WIRELINE JUNK CATCHER
18:30	19:00	1/2	23	TEAR OUT WIRELINE.
19:00	20:00	1	25	MONITOR WELL FOR 2 HRS.

NOTES: V BRAKES, L WRENCH, CROWN SAVER, CLAMP, ANCHOR. PRESS TESTING

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				FLOW CHECK	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	25	MONITOR WELL

NOTES: V BRAKES, L WRENCH, CROWN SAVER, CLAMP, ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118340

LICENCE NO.: SDL 98

WELL NAME AND NO.: CHEVRON ET AL LINRO K-27 60° 30' N 123° 30' W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flashback & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 MONTH 07 DAY 30

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE	°C
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22 WAITING ORDERS	23	24	25	26
	MORN.																									
	DAY																						8			
	EVE.																						8			
	TOTAL																						16			

TOTALS

																							8			
																							8			
																							16			

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Don Taylor

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	1600	8	22	WAITING ORDERS Monthly Brakes Inspection Cut off 10m of Drill Line Slip Post Stop Crown Saver

NOTES

J. BRAKES, Linkage, Crown Saver, Clamp, Axle

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
1600	2400	8	22	WAIT on ORDERS - CLEAN OFF CATWALK - Work on Sub Rigs wiring.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				Personal Safety	

FOLD HERE →

118339

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ET AL LINKO K-2960°30'-123°30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: ARTA DRILLING LTD

SURFACE LOCATION: K-2960°30'-123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 97 MONTH 07 DAY 29

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C. / CURRENT CONDITIONS / WIND DIRECTION / ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	WAIT ON ORDERS					
MORN.																											
DAY																						12					12
EVE.																											
TOTAL																											

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES — MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC — 1000 daN
WT. OF STRING — 1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION: HOLE DRAG / TORQUE AT BOTTOM / FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Don Taylor

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800	2000	12	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

WAIT ON ORDERS
*LOOK UP STAND TO TRAVELLING BLOCKS
TEST BOP RAMS
CHANGE OUT SHAKER BOARDS w/ DERRICK

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118338

LICENCE NO.:	WELL NAME AND NO.:
SDL 39	CHEVRON ET AL LINDA K-J 60°30'-123°30'
OPERATOR:	**CONTRACTOR:**
CHEVRON Can Res.	AKITA DRILLING
SURFACE LOCATION:	**UNIQUE ID.:**
K-J 60°30'-123°30'	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) HS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
97	5	28

RIG NO.: 48

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE	°C
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 TEAR OUT TOP DRIVE	24 WAIT ON ORDERS	25	26
	MORN.																									
	DAY																						6	6		
	EVE																									
	TOTAL																									

TOTALS 12

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES — MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800	1400	6	22
1400	2000	6	23

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

PRE TOUR SAFETY MEETING LAY DOWN TOP DRIVE
RIG OUT TOP DRIVE TUBE & POWER CORDS OUT OF
DERRICK. TAKE OUT POWER CORDS FROM TOP DRIVE
STACK TO SCR BUILDING
WAIT ON ORDERS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118336

LICENCE NO.: SDO-89	WELL NAME AND NO.: Elmworth et al Land K-J 60° 30' N 125° 30' W
OPERATOR: Nexen Can. Res.	CONTRACTOR: Akita Drilling
SURFACE LOCATION: K-J 60° 30' N 125° 30' W	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY

RIG NO.

FUEL @ 8:00

RIG | BOILER

WEATHER

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																								
	DAY																								
	EVE.																								
	TOTAL																								

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES — MO'N'G | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
~~0800~~	~~3800~~			~~Rig out Top Drive~~
0800	1400	6	22	Wait on orders
1400	2000	6	23	Rig out Top Drive

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118335

LICENCE NO.: SDL

WELL NAME AND NO.: CHEVRON ET AL HARO K-J760°30'N 123°30'W

OPERATOR: Chevron Can. Res.

CONTRACTOR: AKITA Drilling LTD

SURFACE LOCATION: K-J760°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 07 | DAY 26

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG	WAITON ORDERS				
MORN.																										
DAY																						12				
EVE.																										
TOTAL																										

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE Dan Tetlow

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

WAITING ON ORDERS FROM CHEVRON

NOTES

MAKE GENERATOR AND TEST RUN. TOP DRIVE AND DRAWWORKS. SAFETY INSPECTED DERRICK, ETC.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

K-39

July 26-Aug 6/99

WID 1861

FOLD HERE →

118325

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ET AL LIARD K-27 60°30'N 123°30'W

OPERATOR: CHEVRON CAN RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						RIG WATCH				
MORN.																						12	JUNE 26/99			
DAY																						12	JUNE 27/99			
EVE.																						0	JUNE 28/99			
TOTAL																										

TOTALS

SHALE SHAKER(S): NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	RIG WATCH. FINISH PAINTING FLOOR HAND RAILS RAIN
				JUNE 26/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	RIG WATCH PAINT FLOOR IN GALLAGHER SHACK
				JUNE 27/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	RIG WATCH. LAID GEO-CLOTH AROUND MAIN FIELD SHACK MOVED CAMP SEPTIC TANK TO CAMP
				JUNE 28/99

NOTES

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BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118323

LICENCE NO.: SOL 99

WELL NAME AND NO.: CHEVRON ET ALLIARD K:29 60°30'L 123°30'L

OPERATOR: CHEVRON CAN RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-29 60°30'L 123°30'L

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY

RIG NO.

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROK LTH. (m

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						RIG WATCH				
MORN.																						12	JUNE 23/99			
DAY																						12	JUNE 24/99			
EVE.																						12	JUNE 25/99			
TOTAL																										

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO. | BIT | O.D. mm | LENGTH m

D.P. | STANDS | m

D.P. | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO.	
0800	2000	12	22	RIG WATCH. PUMP WATER OFF LEASE INTO MUD TANKS WITH 4" PUMP
				JUNE 23/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO. | BIT | O.D. mm | LENGTH m

D.P. | STANDS | m

D.P. | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO.	
0800	2000	12	22	RIG WATCH HAUL CAMP GROCERIES FROM BARN LANDING TO CAMP
				JUNE 24/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO. | BIT | O.D. mm | LENGTH m

D.P. | STANDS | m

D.P. | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO.	
0800		12	22	RIG WATCH PAINT FLOOR HAND RAILS
				JUNE 25/99

NOTES

118323

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118322

LICENCE NO.:	WELL NAME AND NO.:
SDL 99	CHEVRON ET AL LIARD K-29 60°30'N 123°30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CAN. RES.	AKITA DRILLING LTD
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60°30'N 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

		O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING										
TUBING OR LINER										

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						RIG WATCH				
MORN.																						12	JUNE 20/99			
DAY																						12	JUNE 21/99			
EVE.																						12	JUNE 22/99			
TOTAL																										

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	22	RIG WATCH RAIN ALL DAY
				JUNE 20/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	22	RIG WATCH SUCK UP WATER WITH VAC TRUCK
				JUNE 20/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	22	RIG WATCH
				JUNE 22/99

NOTES

118322

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118321

LICENCE NO.: SDL 99
WELL NAME AND NO.: CHEVRON ET AL LIARD K-29 60°30'N 123°30'W
OPERATOR: CHEVRON CAN. RES.
CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-29 60°30'N 123°30'W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY
RIG NO. 48 DOE
FUEL @ 8:00
RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						RIG WATCH				
MORN.																						12	JUNE 17/99			
DAY																						12	JUNE 18/99			
EVE.																						12	JUNE 20/99			
TOTAL																										

TOTALS

SHALE SHAKER(S): NO. | TYPE
SCREENS CHANGED ☐ YES ☐ NO
TOP | TOP
MIDDLE | MIDDLE
BOTTOM | BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	RIG WATCH TEAR OUT NORTHWARD
				JUNE 17/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	RIG WATCH TEAR OUT FLARE LINES LOAD OUT REST OF NORTHWARD
				JUNE 18/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	RIG WATCH BACK FILL LEASE W/ GRAVEL & ROCK PICK UP BOARDS FROM WHERE TEST SHACKS & LINES ~~WERE~~ WERE MOVE JUNK BIN TO TOP LEASE
				JUNE 19/99

NOTES

118321

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118315

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ET AL LIARD K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: NIKITA DRILLING LTD

SURFACE LOCATION: K-29 60° 30' 123° 30'

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR / MONTH / DAY

RIG NO. 48

FUEL @ 8:00

RIG / BOILER

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

DC/DP. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL. LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						RIG WATCH				
MORN.																						12	MAY 30/99			
DAY																						12	MAY 31/99			
EVE.																						12	JUNE 1/99			
TOTAL																										

TOTALS

SHALE SHAKER(S)

NO. / TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Dan Tolson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO.	
08⁰⁰	20⁰⁰	12	22	RIG WATCH
				LOAD OUT MISCELLANEOUS LOADS AT OLD CAMP LOCATION
				HAUL WATER FROM RIG TO NEW CAMP LOCATION
				MAY 30/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Dan Tolson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO	
08⁰⁰	20⁰⁰	12	22	RIG WATCH
				HAUL WATER FROM RIG TO CAMP
				PAINT MATO RAILS ON MUD TANKS
				MAY 31/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.								
SIZE (mm)								
IADC CODE								
MFG.								
TYPE								
SERIAL NO.								
JETS (mm)								
DEPTH OUT (m)								
DEPTH IN (m)								
TOTAL METRES DRILLED (m)								
TOTAL HOURS RUN								

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Dan Tolson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO.	
08⁰⁰	20⁰⁰	12	22	RIG WATCH
				SUCK UP WATER WITH VAC TRUCK
				FINISH PAINTING MATO RAILS ON MUD TANKS
				~~MAY~~ JUNE 01/99

NOTES

118315

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118314

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ET ALLIARD K-2960°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-2960°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR / MONTH / DAY

RIG NO.:

FUEL @ 8:00

RIG / BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						RIG WATCH				
MORN.																						12	MAY/24/99			
DAY																						12	MAY/26/99			
EVE.																						12	MAY/27/99			
TOTAL																										

TOTALS

SHALE SHAKER(S)

NO. / TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP / TOP
MIDDLE / MIDDLE
BOTTOM / BOTTOM

RENTALS/SERVICES — MORN / DAY / EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ ____ @ ____

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO.	
08⁰⁰	20⁰⁰	12	22	RIG WATCH
				PULLED OUT 4 DOWEL TRUCKS 1 SCHLUMBERGER TRUCK
				LOAD OUT SURVEY/CORE EQUIPEMENT
				PAINT SHAKERS
				MAY/27/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ ____ @ ____

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO.	
08⁰⁰	20⁰⁰	12	22	RIG WATCH
				LOADED F1 CAJAON EQUIPEMENT
				LOAD OUT 2 WELL SITE SHACKS
				MAY/28/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ ____ @ ____

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — **DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

FROM	TO	ELAP. TIME	CODE NO.	
08⁰⁰	20⁰⁰	12	22	RIG WATCH
				MOVE CAMP TO KM 18
				MAY/29/99

NOTES

118314

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118313

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ET AL LIARD K-27 60°30'N 123°30'W

OPERATOR: ~~AKITA~~ CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION:

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY

RIG NO.

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						R.G WATCH				
MORN.																						~~May~~ 12	May 24/99			
DAY																						12	May 25/99			
EVE.																						12	May 26/99			
TOTAL																										

TOTALS

SHALE SHAKER(S): NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Tolson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	R.G WATCH REMOVE WATER OFF OF LEASE BACK BLADE LEASE MOVE WELDER FROM CAMP LOCATION TO R.G
				May 24/99

NOTES

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Tolson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	R.G WATCH PICK UP TIRES FOR LAND TRANSPORT AT BRIDGE SITE MAINT HAND RAILS MOVE CAMP MAINTANANCE TRAILER AT CAMP
				May 25/99

NOTES

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Tolson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	R.G WATCH DRIVE PRESS TESTER TRUCK & ENGINEER'S TRUCK DOWN TO BARGE SITE TEAR OUT TORCH AT CAMP MAINT HAND RAILS
				May 26/99

NOTES

118313

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118312

LICENCE NO.: SDL 99
WELL NAME AND NO.: CHEVRON ET AL LINEO K-29 60°30'N 123°30'W
OPERATOR: CHEVRON CAN. RES.
CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-29 60°30'N 123°30'W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY
RIG NO.: 48UE
FUEL @ 8:00
RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						Rig Watch				
MORN.																						12	May/21/99			
DAY																						12	May/22/99			
EVE.																						12	May/23/99			
TOTAL																										

TOTALS

SHALE SHAKER(S): NO. | TYPE; SCREENS CHANGED ☐ YES ☐ NO; TOP | TOP; MIDDLE | MIDDLE; BOTTOM | BOTTOM

RENTALS/SERVICES | MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	20	SUCK UP DITCHES W/ VAC-TRUCK
				TREAT & PUMP WATER WITH ALPINE OFF LEASE
				AND CAMP SITE
				WALK PACKER DOWN TO BARGE SITE
				RIG WATCH
				May/21/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	20	LOAD OUT ALPINE EQUIPEMENT
				PAINT GALIGHER
				RIG WATCH
				May/22/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	20	LOAD RIG BAGS ONTO HELICOPTER
				MOVE ALL AKITA POSSESSIONS FROM CAMP TO
				RIG. PAINT MUD TANK HAND RAILS
				RIG WATCH.
				May/23/99

NOTES

118312

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118311

LICENCE NO.: SOL 99

WELL NAME AND NO.: CHEVRON ET AL LARO K-2960°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-2960°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26	TOTALS
OPER.																						Rig Watch					
MORN.																						15	May/18/99				
DAY																						12	May/19/99				
EVE.																						12	May/20/99				
TOTAL																											

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES — MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.		BIT	O.D. mm	LENGTH
				m
				m
				m
				m
				m
				m
				m
				m
				m
	D.P.	STANDS		m
	D.P.	SINGLES		m
	KELLY DOWN			m
	TOTAL			m
WT. OF DC				1000 daN
WT. OF STRING				1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08⁰⁰	20⁰⁰	12	22	Rig Watch Treat & Pump Water With Alpine Off Lease And Camp Site Rig Up Crown Saver
				May/18/99

NOTES

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.		BIT	O.D. mm	LENGTH
				m
				m
				m
				m
				m
				m
				m
				m
				m
	D.P.	STANDS		m
	D.P.	SINGLES		m
	KELLY DOWN			m
	TOTAL			m
WT. OF DC				1000 daN
WT. OF STRING				1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08⁰⁰	20⁰⁰	12	22	Rig Watch Remove Sub Tarp 45 Cribs Treat & Pump Water With Alpine Off Lease And Camp Site
				May/19/99

NOTES

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.		BIT	O.D. mm	LENGTH
				m
				m
				m
				m
				m
				m
				m
				m
				m
	D.P.	STANDS		m
	D.P.	SINGLES		m
	KELLY DOWN			m
	TOTAL			m
WT. OF DC				1000 daN
WT. OF STRING				1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08⁰⁰	20⁰⁰	12	22	Rig Watch Time Part Damaged In Weld Shop Treat & Pump Water With Alpine Off Lease And Camp Site.
				May/20/99

NOTES

118311

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

NATIONAL ENERGY BOARD
JUL 29

FOLD HERE →

118306

LICENCE NO.: SDL 99 | WELL NAME AND NO.: CHEVRON ETAL HARO K-29 60° 30' N 123° 30' W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30' N 123° 30' W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR: 99 | MONTH: 05 | DAY: 07

RIG NO.: 48

FUEL @ 8:00

RIG: 54 | BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																					WELL SHUT IN				
MORN.																					8					
DAY																										
EVE.																										
TOTAL																										

TOTALS: 8

SHALE SHAKER(S): NO. | TYPE; SCREENS CHANGED ☐ YES ☐ NO; TOP / TOP; MIDDLE / MIDDLE; BOTTOM / BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	05:00	8	22	SHUT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9				

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Kevin Lowe

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	12:00	12	11	PRODUCTION TEST W/ SCHLUMBERGER

Completion reports Apr. 1 - May 11

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9				

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
12:00	24:00	12	11	PRODUCTION TEST W/SCHLUMBERGER
				WELL HEAD CAP INSTALLED AND VALVES LOCKED WITH CHAIN
				Rig release at 24:00 hours. Initial well completion and testing operations finished. Thomas
				Start rig watch rate May 6 1999.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9				

118305

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LICENCE NO.:	WELL NAME AND NO.:
SDL99	Chevron et al Liard K-29 60°30'N 123°30'W

OPERATOR:	CONTRACTOR:
Chevron Canada Resources Ltd	Akita Drilling.
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60°30'N 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:** [signature]

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	05	04

RIG NO. 48

FUEL @ 8:00

RIG	BOILER
67	

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME - HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Well shut in					
MORN.																						8					8
DAY											12																12
EVE.																						4					4
TOTAL											12											12					24

SHALE SHAKER(S)	
NO. TYPE	
SCREENS CHANGED ☐ YES ☐ NO	
TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour) — NO. | BIT | O.D. mm | LENGTH (m); D.P. STANDS; D.P. SINGLES; KELLY DOWN; TOTAL; WT. OF DC (1000 daN); WT. OF STRING (1000 daN)

BIT RECORD — BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN; CUTTING STRUCTURE T_I T_O MDC LOC; B; Gage; ODC; Reason Pulled; Total Run m/hr.

HOLE CONDITION — HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE ☐ WATER BASED ☐ OIL BASED; TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED — PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL — DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m); CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m); HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

METRES DRILLED — FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY — DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG / DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS
00:00	08:00	8	22	Well shut in

NOTES

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour) — NO. | BIT | O.D. mm | LENGTH (m); D.P. STANDS; D.P. SINGLES; KELLY DOWN; TOTAL; WT. OF DC (1000 daN); WT. OF STRING (1000 daN)

BIT RECORD — BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN; CUTTING STRUCTURE T_I T_O MDC LOC; B; Gage; ODC; Reason Pulled; Total Run m/hr.

HOLE CONDITION — HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE ☐ WATER BASED ☐ OIL BASED; TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Gel	30 sx
(Mixed on mays)	

SOLIDS CONTROL — DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m); CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m); HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

METRES DRILLED — FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY — DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE [signature]

TIME LOG / DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS
08:00	20:00	12	11	Production Logging w/Schlumberger.
				Held Monthly Environmental Meeting w/crew.

NOTES - Boiler Blow Down @ 09:00 + 15:00 Hrs.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	275°		Environmental	

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour) — NO. | BIT | O.D. mm | LENGTH (m); D.P. STANDS; D.P. SINGLES; KELLY DOWN; TOTAL; WT. OF DC (1000 daN); WT. OF STRING (1000 daN)

BIT RECORD — BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN; CUTTING STRUCTURE T_I T_O MDC LOC; B; Gage; ODC; Reason Pulled; Total Run m/hr.

HOLE CONDITION — HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE ☐ WATER BASED ☐ OIL BASED; TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED — PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL — DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m); CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m); HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

METRES DRILLED — FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY — DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG / DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS
20:00	24:00	4	22	Well Shut in

NOTES Ran Boiler overnight

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	275			

FOLD HERE →

118304

LICENCE NO.:	WELL NAME AND NO.:
SDL99	CHEVRON ETAL HARO K-29 60° 20'N 123° 30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60° 20'N 123° 20'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY
99	05	05

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER	
TEMPERATURE	°C
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					WELL SHUT IN	RIG UP LOGGERS			
	DAY											9										4	2			
	EVE.																						4			
	TOTAL											9										4	12			

TOTALS	
8	
12	
4	
24	

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	WELL SHUT IN

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Garth Long

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:00	2	23	R.C IN SCHLUMBERGER
10:00	10:15	¼	21	HELD SAFETY MEETING PRIOR TO WORKING
10:15	20:00	9¾	11	WIRE LINE PERFORATION LOG

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0000	2400	4	12	WOC 365 M

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE ➔

118303

LICENCE NO.: SDL 89

WELL NAME AND NO.: CHEVRON ETAL LIARD K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30'N 123° 30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 94 MONTH 05 DAY 04

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 TEST WELL	24 RUN & HANDLE	25 RUN & RECOVER	26
MORN.																							8			
DAY																						1/4	6 1/2	1/2	4 3/4	
EVE.																							4			
TOTAL																						1/4	18 1/2	1/2	4 3/4	

TOTALS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
																				8	12		4		24

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	WELL SHUT IN / RECORDER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	14:30	6 1/2	22	WELL SHUT IN / RECORDER LEFT IN WELL
14:30	15:00	1/2	33	RIG UP LUBRICATOR HEAD
15:00	15:15	1/4	21	HELD SAFETY MEETING PRIOR TO LUBRICATOR
15:15	20:00	4 3/4	24	REMOVE RECORDER & RECORDER HANGERS. (CURRENT STATIC GRADIENT TEST)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				SAFETY MEETING	

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	WELL SHUT IN

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

FOLD HERE →

118302

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ETAL HZ NO K-29 60°30'N 123° 30'W

OPERATOR: CHEVRON CANADA RESOURCES HZ

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30'N 123° 30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Lenter from HC

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial 20
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR: 11 MONTH: 03 DAY: 02

RIG NO.: 418

FUEL @ 8:00

RIG | BOILER

WEATHER

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG	23	24	25	26
	MORN.																					TAST WELL			
	DAY																					8			
	EVE.																					12			
	TOTAL																					4			
																						24			

TOTALS

	8
	12
	4
	24

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE | T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	WELL SHUT IN / 1 RECORDER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE | T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Hardman

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	WELL SHUT IN / RECORDER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE | T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	WELL SHUT IN / RECORDER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118301

LICENCE NO.: SOL 99

WELL NAME AND NO.: CHEVRON ETAL HARE K-39 60° 30' N 123° 30' W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-39 60° 30' N 123° 30' W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Thompson

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 94 | MONTH 05 | DAY 02

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DG/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						TEST WELL				
MORN.																						8				
DAY																						12				
EVE.																						4				
TOTAL																						24				

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE				
8	SCREENS CHANGED ☐ YES ☐ NO				
12	TOP / TOP				
4	MIDDLE / MIDDLE				
24	BOTTOM / BOTTOM				

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	WELL SHUT IN / 1 RECORDER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Keith Lane

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	WELL SHUT IN / 1 RECORDER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	WELL SHUT IN / 1 REC. IN LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118300

LICENCE NO.: SDL 99
WELL NAME AND NO.: CHEVRON ETAL DIAMD K-29 60°30'N 123°30'W
OPERATOR: CHEVRON CANADA RESOURCES LTD
CONTRACTOR: AKITA DRILLING
SURFACE LOCATION: K-29 60°30'N 123°30'W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 17 | MONTH 05 | DAY 31
RIG NO. 48
FUEL @ 8:00
RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.																						TOOLWELL			
DAY																						8			
EVE.																						12			
TOTAL																						4			
																						24			

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN.	DAY	EVE.
NO.	TYPE				
SCREENS CHANGED ☐ YES ☐ NO					
TOP	TOP				
MIDDLE	MIDDLE				
BOTTOM	BOTTOM				

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:00	1	22	WELL SHUT IN / 1 RACKER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
05:00	20:00	12	22	WELL SHUT IN / 1 RACKER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
2000	29:00	4	22	WELL SHUT IN / 1 RECORDER LEFT IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118299

LICENCE NO.: SD 99 | WELL NAME AND NO.: CHEVRON ETAL HZ20 K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60°30'N 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 17 | MONTH 04 | DAY 30 | RIG NO. 48

FUEL @ 8:00 | RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	TEST WELL					
MORN.																						8					8
DAY																						17					17
EVE.																						4					4
TOTAL																						29					29

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
D.P.	STANDS		
D.P.	SINGLES		
KELLY DOWN			
TOTAL			
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	08:00	8	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

WELL SHUT IN / 1 SET OF RECORDERS IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
D.P.	STANDS		
D.P.	SINGLES		
KELLY DOWN			
TOTAL			
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

WELL SHUT IN / 1 SET OF RECORDERS IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
D.P.	STANDS		
D.P.	SINGLES		
KELLY DOWN			
TOTAL			
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	24:00	4	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

WELL SHUT IN / 1 SET OF RECORDERS IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118298

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ETAL LIARD K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING LTD.

SURFACE LOCATION: K-29 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR: 94 MONTH: 04 DAY: 24

RIG NO.: 48

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 TRIP UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					TEST WELL				
	DAY																					8				
	EVE.																					12				
	TOTAL																					4				
																						24				

TOTALS

8	
12	
4	
24	

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	WELL SHUT IN 1 SET OF RECORDERS IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	WELL SHUT IN 1 SET OF RECORDERS IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	WELL SHUT IN 1 SET OF RECORDERS IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118297

LICENCE NO.: SDL 99 | WELL NAME AND NO.: CHEVRON ETAL LIARD K-29 60°30'N 123°30'W.

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: ARITA DRILLING.

SURFACE LOCATION: K-29 60°30'N 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: A Normphe (2) (J | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial JE
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial JE
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial JE
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 04 | DAY 28 | RIG NO. 48

FUEL @ 8:00 | RIG | BOILER

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE	°C
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 TEST WELL	24	25	26
	MORN.																						8			
	DAY																						12			
	EVE.																						4			
	TOTAL																						24			

TOTALS

8	
12	
4	
24	

SHALE SHAKER(S)

NO.	TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	OOC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	WELL SHUT IN ISET OF RECORDERS IN

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	WELL SHUT IN 1 SET OF RECORDERS IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	WELL SHUT IN ISET OF RECORDERS IN WELL

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118296

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ETAL HARD K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. Initial / R.M. Initial

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Stated
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR: 99 MONTH: 04 DAY: 27

RIG NO.: H9

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.																						TEST WAS			
DAY																						8			
EVE.																						12			
TOTAL																						4			
																						24			

TOTALS: 8 / 12 / 4 / 24

SHALE SHAKER(S): NO. | TYPE — SCREENS CHANGED ☐ YES ☐ NO — TOP / MIDDLE / BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	WELL SHUT IN ROAD RECORDERS
				W.O.O. FR: CALGARY

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Mark Lowe

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	WELL SHUT IN / ROAD RECORDERS
				W.O.O. FR: CALGARY

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	WELL SHUT IN w/ 1 SET of RECORDERS IN.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118295

LICENCE NO.: SDL 89 | WELL NAME AND NO.: CHEVRON ET AL LIARD K-27 60°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES. | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60°30'N 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR | MONTH | DAY

PIG NO.

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRLG. LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	TEST WELL	WIRELINE	RIG RELEASED	SHUT IN	
MORN.																						4	~~4~~			
DAY																					1/4	6	1 1/4	3 3/4	1 1/4	
EVE.																									1	
TOTAL																										

TOTALS: 8 | 12 | 11 | 24

SHALE SHAKER(S): NO. | TYPE | SCREENS CHANGED ☐ YES ☐ NO | TOP | MIDDLE | BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED: FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY: DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG: FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	TEST WELL + RECORD PRESSURES (UNLOADING)

NOTES

BOILER: HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED: FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY: DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE: Keith Lizard

TIME LOG: FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	14:00	6	22	TEST WELL + RECORD PRESS (UNLOAD & SHUT IN)
14:00	15:15	1 1/4	23	RIG MAINTENANCE + LUBRICATE HEAD
15:15	15:30	1/4	21	HELD SAFETY MEETING, PRIOR TO RIG PICK UP
15:30	18:45	3 1/4	24	RELEASE TOP DRIVE. (CONDUCT STATIC GRADIENT WHILE PULLING OUT OF HOLE)
18:45	20:00	1 1/4	25	SHUT WELL IN. TBG & CSG PRESSURES.

NOTES

BOILER: HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC: Reviewed by crew | M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED: FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY: DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG: FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	25	SHUT WELL IN + READ PRESSURES.

NOTES

BOILER: HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

Appr. 26/93 - Jan 7/93

FOLD HERE →

118294

LICENCE NO.: SDL
WELL NAME AND NO.: CHEVRON ET AL LINEO K-29 60° 30' N 123° 30' W
OPERATOR: Chevron Can. Res.
CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-29 60° 30' N 123° 30' W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 MONTH 04 DAY 25
RIG NO. 48
FUEL @ 8:00
RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					TEST WELL			
	DAY																					8			
	EVE.																					12			
	TOTAL																					4			
																						24			

TOTALS

SHALE SHAKER(S)
NO. | TYPE
SCREENS CHANGED ☐ YES ☐ NO
TOP | TOP
MIDDLE | MIDDLE
BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED	
TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00⁰⁰	08⁰⁰	8	22	TEST WELL & RECORD PRESS (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED	
TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	TEST WELL & RECORD PRESS (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED	
TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20⁰⁰	24⁰⁰	4	22	TEST WELL & RECORD PRESS (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118293

LICENCE NO.: SDL 99
WELL NAME AND NO.: CHEVRONET MCKINNEY K-2160°30'N/123°30'W
OPERATOR: CHEVRON CAN RES.
CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-2160°30'N/123°30'W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 04 MONTH 04 DAY 24
RIG NO. 48
FUEL @ 8:00
RIG / BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 TEST WELL	24	25	26
	MORN.																						6		
	DAY																						12		
	EVE.																						4		
	TOTAL																						24		

TOTALS

SHALE SHAKER(S): NO. / TYPE; SCREENS CHANGED ☐ YES ☐ NO; TOP / TOP; MIDDLE / MIDDLE; BOTTOM / BOTTOM

RENTALS/SERVICES — MORN. / DAY / EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. / SIZE (mm) / IADC CODE / MFG. / TYPE / SERIAL NO. / JETS (mm) / DEPTH OUT (m) / DEPTH IN (m) / TOTAL METRES DRILLED (m) / TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG / TORQUE AT BOTTOM / FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME / DENSITY kg/m³ / FUNNEL VIS. - (S/L) / W.L. (cm³) / pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	TEST WELL & RECORD PRESS. (SHUT-IN)

NOTES

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. / SIZE (mm) / IADC CODE / MFG. / TYPE / SERIAL NO. / JETS (mm) / DEPTH OUT (m) / DEPTH IN (m) / TOTAL METRES DRILLED (m) / TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG / TORQUE AT BOTTOM / FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME / DENSITY kg/m³ / FUNNEL VIS. - (S/L) / W.L. (cm³) / pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	TEST WELL & RECORD PRESS. (SHUT-IN)

NOTES

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. / SIZE (mm) / IADC CODE / MFG. / TYPE / SERIAL NO. / JETS (mm) / DEPTH OUT (m) / DEPTH IN (m) / TOTAL METRES DRILLED (m) / TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG / TORQUE AT BOTTOM / FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME / DENSITY kg/m³ / FUNNEL VIS. - (S/L) / W.L. (cm³) / pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm), S.P.M. | PUMP NO. 2: LINER SIZE (mm), S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	TEST WELL & RECORD PRESS. (SHUT-IN)

NOTES

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE ➔

118292

LICENCE NO.: SD 99

WELL NAME AND NO.: CHEVRON ET AL LNRD K-79 60°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-79 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial

(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial
(3) Mast Inspection Before Raising or Lowering	Initial
(4) Crown Saver Checked	Initial
(5) Motor Kills checked	Initial

YEAR 94 MONTH 04 DAY 23

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	TEST WELL				
MORN.																						8				
DAY																						12				
EVE.																						4				
TOTAL																						24				

TOTALS

SHALE SHAKER(S): NO. | TYPE; SCREENS CHANGED ☐ YES ☐ NO; TOP | TOP; MIDDLE | MIDDLE; BOTTOM | BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00⁰⁰	08⁰⁰	8	22	TEST WELL 4 RECORD PRESS.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	20⁰⁰	12	22	TEST WELL 4 RECORD PRESS.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20⁰⁰	24⁰⁰	4	22	TEST WELL 4 RECORD PRESS.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118291

LICENCE NO.:	WELL NAME AND NO.:
SOL 39	CHEVRON ET AL LIARD K-39 60°30'N 123°30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CAN. RES.	AKITA DRILLING LTD
SURFACE LOCATION:	**UNIQUE ID.:**
K-39 60°30'N 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 04 | DAY 29 | RIG NO. 48

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					TEST WELL			
	DAY																					8			
	EVE.																					12			
	TOTAL																					4			
																						24			

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES — MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	TEST WELL & RECORD PRESS. (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
08:00	20:00	12	22	TEST WELL & RECORD PRESS. (SHUT-IN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	TEST WELL & RECORD PRESS. (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118290

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ET AL LINARD K-27 60°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 MONTH 04 DAY 21

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	TEST WELL				
MORN.																						8				
DAY																						12				
EVE.																						4				
TOTAL																						24				

TOTALS

SHALE SHAKER(S): NO. | TYPE; SCREENS CHANGED ☐ YES ☐ NO; TOP | TOP; MIDDLE | MIDDLE; BOTTOM | BOTTOM

RENTALS/SERVICES | MORN. | DAY | EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	08:00	8	22	TEST WELL & RECORD PRESS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	TEST WELL & RECORD PRESS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	TEST WELL & RECORD PRESS.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118289

LICENCE NO.: SDL 88 | WELL NAME AND NO.: CHEVRON CHEVRONET AL LINKO K-27 60° 3' N 123° 30' W

OPERATOR: CHEVRON Can. Res. | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60° 3' N 123° 30' W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flowlines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 11 | MONTH 04 | DAY 30 | RIG NO. 48

FUEL @ 8:00 | RIG 141 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	TEST WELL				
MORN.																						8				
DAY																						12				
EVE.																						4				
TOTAL																						24				

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES | MORN. | DAY | EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	08:00	8	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL & RECORD PRESS (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL & RECORD PRESS. (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	24:00	4	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL & RECORD PRESS. (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118288

LICENCE NO.:	WELL NAME AND NO.:
SD [illegible]	CHEVRON ET AL LINDO K-27 60°30'N 123°30'W
OPERATOR: Chevron Can Res.	CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-27 60°30'N 123°30'W	UNIQUE ID.: Bill Mlan.
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY
99	04	19

RIG NO. 48

FUEL @ 8:00

RIG 69 BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER	
TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					FLOW TEST			
	DAY																					8			
	EVE.																					9			
	TOTAL																					8			
																						24			

TOTALS

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE

T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	08:00	8	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FLOW TEST RECORD PRESS. SHUT-IN

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE

T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FLOW TEST RECORD PRESS. SHUT-IN

TRANSFERED 1 km^3 OF FUEL

NOTES

WELL SHUT IN @ 20:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE

T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	24:00	4	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FLOW TEST RECORD PRESS. SHUT-IN

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118287

LICENCE NO.: SDL 93	WELL NAME AND NO.: CHEVRON ET AL LINDO 60°30'N 123°30'W
OPERATOR: CHEVRON CAN. RES.	CONTRACTOR: AKITA DRILLING
SURFACE LOCATION: K-29 60°30'N 123°30'W	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE: Bill Marsh	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flanglines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/Crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 7 | MONTH 1 | DAY 13

RIG NO.: 48

FUEL @ 8:00

RIG: 92 | BOILER

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	FLOW TEST					
MORN.																						8					
DAY																						8					
EVE.																						8					
TOTAL																						24					

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES | MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	08:00	8	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Don Fisher

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL (SHUT-IN)

+ BOILER SHUT IN @ 12:00

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	325			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	24:00	4	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL (SHUT-IN)

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118286

LICENCE NO.:	WELL NAME AND NO.:
SDL 99	CHEVRON ET AL LIARD K-29, 60° 30'N, 123° 30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES	AVIA DRILLING LTD
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60° 30'N, 123° 30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	04	17

RIG NO. 44

FUEL @ 8:00

RIG 1.16 | BOILER

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						TEST WELL				
MORN.																						8				
DAY																						12				
EVE.																										
TOTAL																										

TOTALS

	8
	12

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0000	0800	8	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL.

NOTES BOILER BLOW DOWN 2:00 & 7:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	11.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800	2000	12	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL

NOTES BOILER BLOW DOWN @ 10:00, 17:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

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118285

LICENCE NO.: 5044 97

WELL NAME AND NO.: CHEVRON FEAL LIARD K09 60° 30'N, 123° 30'W

OPERATOR: CHEVRON CANADA RESOURCES

CONTRACTOR: AKITA DRILLING LTD.

SURFACE LOCATION: K-09 60°30'N, 123° 30'W.

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY

RIG NO.

FUEL @ 8:00

R/G 1.24 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					TEST WELL			
	DAY																					8			
	EVE.																					12			
	TOTAL																					4			

TOTALS: 8 / 12 / 4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES — MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	TEST WELL

NOTES: BOILER BLOW DOWN @ 07:00 07:00

BOILER: HRS. RAN | ph | STACK TEMP.

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	TEST WELL

NOTES: BOILER BLOW DOWN @ 09:00, 15:00

BOILER: HRS. RAN 12 | ph 9 | STACK TEMP. 225

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	04:00	4	22	TEST WELL.

NOTES: BOILER BLOW DOWN @ 21:00 ~~23:00~~ 23:00

BOILER: HRS. RAN 4 | ph 9 | STACK TEMP. 225

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

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118284

LICENCE NO.: SOL 99 | WELL NAME AND NO.: CHEVRON ETAC-LINDA K-09 60°30'N, 123°30"W

OPERATOR: CHEVRON CANADA RESOURCES | CONTRACTOR: ARCTIC DRILLING LTD

SURFACE LOCATION: K-09 60° 30'N 123° 30" W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 79 | MONTH 04 | DAY 15

RIG NO. 48

FUEL @ 8:00

RIG 135 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					TEST WELL			
	DAY																					8			
	EVE.																					12			
	TOTAL																					4			

TOTALS: 8 / 12 / 4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0000	0800	8	22	TEST WELL

NOTES: BOILER BLOW DOWN @ 2:00 - 7:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	22	TEST WELL

NOTES: BOILER BLOW DOWN @ 1200, 1600

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	114		114	

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
2000	0400	4	22	TEST WELL

NOTES: BOILER BLOW DOWN @ 23:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	225			

FOLD HERE →

118283

LICENCE NO.: SAL 99

WELL NAME AND NO.: CHEVRON ETAL LJARD K29 (60°20'N, 122°30'W)

OPERATOR: CHEVRON CANADA RESOURCES

CONTRACTOR: AKITA DRILLING LTD.

SURFACE LOCATION: K29 60°20'N, 122°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 09 | MONTH 04 | DAY 14

RIG NO. 48

FUEL @ 8:00

RIG 151 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					TEST WELL			
	DAY																					8			
	EVE.																					12			
	TOTAL																					4			

TOTALS

8
12
4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	114		114	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0:00	08:00	8	22	TEST WELL
			*	FUEL TRANSFERED TO RIG TANK 16.5 m³

NOTES

FLARE FLAMING @ 3:00 & 7:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225°C		ENVIRONMENTAL	

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	TEST WELL

NOTES

BOILER BLOWN DOWN @

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225°C			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	Test well

NOTES

Boiler Blown Down @ 22:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	225°C			

FOLD HERE →

118282

LICENCE NO.:	WELL NAME AND NO.:
SALE 19	CHEVRON ETAL LIARD K-29 (60°30'N, 123°22'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES	ARITA DRILLING LTD
SURFACE LOCATION:	**UNIQUE ID.:**
K29 60° 30'N 123° 30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY
99	04	13

RIG NO.: 43

FUEL @ 8:00

RIG: 80 BOILER:

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	TEST WELL				
MORN.																						8				
DAY																						12				
EVE.																						4				
TOTAL																										

TOTALS

	8
	12
	4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC: 1000 daN

WT. OF STRING: 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0000	0800	8	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL

NOTES

BOILER BLOW DOWN @ 0300, 0600

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

DRILLING ASSEMBLY (At End of Tour) — NO. | BIT | O.D. mm | LENGTH m
BIT RECORD
MUD RECORD
MUD TYPE ☐ WATER BASED ☐ OIL BASED
MUD MATERIALS ADDED — PRODUCT | AMOUNT X UNIT
SOLIDS CONTROL — DESILTER — CENTRIFUGE

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800	2000		22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL

NOTES

BOILER BLOW DOWN @ 1000, 1500, 1900 hrs

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225			

DRILLING ASSEMBLY (At End of Tour) — NO. | BIT | O.D. mm | LENGTH m
BIT RECORD
MUD RECORD
MUD TYPE ☐ WATER BASED ☐ OIL BASED
MUD MATERIALS ADDED — PRODUCT | AMOUNT X UNIT
SOLIDS CONTROL — DESILTER — CENTRIFUGE

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	114		114	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
2000	0400	4	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TEST WELL

NOTES

BOILER BLOW DOWN @ 2200

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	225		HOUSE KEEPING	

FOLD HERE →

118281

LICENCE NO.: SDL 89 | WELL NAME AND NO.: CHEVRON ETAL KINGS K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING.

SURFACE LOCATION: K-29 (60° 30'N 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 04 | DAY 12

RIG NO. 48

FUEL @ 8:00

RIG 83m³ | BOILER 7m³

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					TEST WELL			
	DAY																								
	EVE.																								
	TOTAL																								
TOTALS																						8			
TOTALS																						8			

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Mark Legault

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	TEST WELL (WAITING ROOMING)

NOTES

Boiler Blown Down @ 0300, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225°C			

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	16:00	8	22	TEST WELL

NOTES

Boiler Blow Down @ 11:00 & 15:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225°C			

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	24:00	8	22	TEST WELL

NOTES

Boiler Blow Down @ 1700, 2100

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

FOLD HERE →

118280

LICENCE NO.: SDL-99

WELL NAME AND NO.: CHEVRON FINAL LAND K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR: 99 MONTH: 04 DAY: 11

RIG NO.: 18

FUEL @ 8:00

RIG: 97m BOILER:

WEATHER

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH (m)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	TEST WELL					8
MORN.																						8					
DAY																											
EVE.																											
TOTAL																											

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES | MORN | DAY | E

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	22	TEST WELL

NOTES

Boiler Blown Down @ 0730 & 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	22	TEST WELL

NOTES

Two Crown Savers, 2 blank flanges changed Crown & Annular Boiler Blow Down @

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	7.5	225			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	22	TEST WELL (WAITING ON CEMENT)

NOTES

Boiler Blown Down @ 2200

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10	200°C			

FOLD HERE →

118279

LICENCE NO.: SDL 98
WELL NAME AND NO.: CHEVRON ETAL LIARD K-29 60°30'N 123°30'W
OPERATOR: CHEVRON CANADA RESOURCES LTD
CONTRACTOR: AKITA DRILLING
SURFACE LOCATION: K-29 60°30'N 123°30'W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR: 99 MONTH: 04 DAY: 19
RIG NO.: 48
FUEL @ 8:00
RIG: 1.15m BOILER: Ace Item

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																					TEST WELL			
	DAY																					6			
	EVE.																					12			
	TOTAL																					4			
																						24			

TOTALS: 8 / 12 / 4 / 24

SHALE SHAKER(S): NO. | TYPE
SCREENS CHANGED ☐ YES ☐ NO
TOP / TOP
MIDDLE / MIDDLE
BOTTOM / BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	08:00	8	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS: TEST WELL

NOTES: BOILER BLOWN DOWN @ 0300, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	200C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS: TEST WELL

NOTES: Arctic Freeze Warnings
Boiler Blow Down @ 11:00, 15:00, 19:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	205			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	24:00	4	22

DETAILS OF OPERATION IN SEQUENCE AND REMARKS: TEST WELL

NOTES: Boiler Blown Down @ 2300

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

FOLD HERE →

118278

LICENCE NO.: SDT 99 | WELL NAME AND NO.: CHEVRON ETAL LIARD K-39 60°30'N/123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD. | CONTRACTOR: AK. TA DRILLING.

SURFACE LOCATION: K-39 60°30'N 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 04 | DAY 09

RIG NO. 48

FUEL @ 8:00

RIG 1.30m | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
							9-P-100	NATIONAL	235
							9-P-100	NATIONAL	235

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 RIGGING UP & DOWN	24 WAIT ON WELL	25 W.O. DAYLIGHT	26 EQUIP. FAILURE
	MORN.							1/4							3½	3/4						1/2	1	2		
	DAY							1/4								3									2½	6¼
	EVE.																					1/4				3¾
	TOTAL							1/2							3½	3¾						1/4	1/2	1	2	2½	10
	TOTALS																					8				12	4	24

SHALE SHAKER(S): NO. | TYPE; SCREENS CHANGED ☑ YES ☐ NO; TOP | TOP; MIDDLE | MIDDLE; BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Keith Evans

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:00	2	24	WAIT ON WELL TO WASH UP & TUBING TO SEACH
02:00	02:30	½	22	LATCH INTO PACKER & POOH DRILL PIPE
02:30	02:45	¼	7	R.L. SERVICE.
02:45	03:30	¾	15	RIG TO & PRESS TEST PACKER & DRILL PIPE TO 21,000 KPA.
03:30	04:30	1	23	TEAR OUT CEMENTERS & POWER TONGS
04:30	08:00	3½	14	NIPPLE DOWN B.O.P.'S (SWIFT MECHANICAL)

NOTES: CROWN SAVER BRAKE LINKAGE & FOOTLINE CHANGED AROUND. Boiler Blow Down @ 0300, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225°C		WINDOW (Rig) Stack	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:30	2½	23	NIPPLE UP DRLG HEAD & NORWOOD TOOLS.
10:30	13:30	3	15	RIG IN POWER TONGS & FILLUP PRESSURE TESTERS TO TEST ANNULAS TO 21,000 KPA 30 MINS.
13:30	19:45	6¼	014	RU TIW ENDLESS TUBING UNIT & PRESS TEST SAME W/ DIESEL.
19:45	20:00	¼	7	RIG SERVICE

NOTES: Rat ✓ BOILER BLOWN DOWN @ 11:00, 15:00, 19:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.; SIZE (mm); IADC CODE; MFG.; TYPE; SERIAL NO.; JETS (mm); DEPTH OUT (m); DEPTH IN (m); TOTAL METRES DRILLED (m); TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); W.L. (cm³); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	¼	21	HOLD SAFETY MEETING W/CREW
20:15	24:00	3¾	26	PRESS TEST CASINGS & TUBING.

NOTES: Boiler Blown Down @ 2300

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	225°C		Pressure Tests	

FOLD HERE →

118277

LICENCE NO.: SDL 89

WELL NAME AND NO.: CHEVRON ETAL LIARD K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOPs - Flexibles & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 04 | DAY 08

RIG NO. 43

FUEL @ 8:00

RIG 1.05m | BOILER 32cm

WEATHER: TEMPERATURE °C / CURRENT CONDITIONS / WIND DIRECTION / ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS

PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
9-P-100	NATIONAL	235
9-P-100	NATIONAL	235

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	SPACER.	DRILL	W.O. WELL		
MORN.					5¼		¼															2½				
DAY					13¾		¼														¼	½	¼			
EVE.					¼		1¼														¼			3¼		
TOTAL					19¼		2¼														½	3	¼	3¼		

TOTALS	
8	
12	
4	
24	

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP	TOP
110	110
MIDDLE 110	MIDDLE 110
BOTTOM 110	BOTTOM 110

RENTALS/SERVICES | MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	2:00	4:00
DENSITY kg/m³	1160	1175
FUNNEL VIS. - (S/L)	83	87
W.L. (cm³)	5	5
pH	10.5	10.5
PVT	902	89.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
1020	152		114	50

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	05:15	5¼	5	CIRCULATE HOLE.
05.15	05.30	¼	7	R/S.
05.30	08:00	2½	22	MAKE UP SPACER PIPE + DOG NUT. CHANGE OUT BAILS.
				Fuel Transfer to Big tank start Dip .82m 14.5m³ total Finish Dip 1.55m

NOTES: Crown Saver ✓ Brake Inspected First Use ✓ Rig Inspection Rotary Hours Down @ 0830, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	215°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME		
DENSITY kg/m³		
FUNNEL VIS. - (S/L)		
W.L. (cm³)		
pH		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
5500	152		114	50

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0300	0830	5½	22	Travel Service Hose + Circ Sleeves.
0830	0845	¼	21	Safety Meeting Hose to Drawworks.
0845	1530	6¾	5	Displace Hole To Water Through Choke
				Clean Degasser Tank + Mix Inhibitor.
1530	1930	4	5	Circ Through Mud Unit Through Choke
1930	1945	¼	7	Rig Service
1945	2000	¼	03	Rig In Dowell To Displace Tubing w/ 1150 kg/m³ Mud.

NOTES: Crown Saver, Degasser Enhance, Choke + Manifold. Boilers Blowdown @ 10:00, 14:00, 18:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225		Well Development	10475

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME		
DENSITY kg/m³		
FUNNEL VIS. - (S/L)		
W.L. (cm³)		
pH		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	¼	21	Safety Meeting Prior To Displacing.
20:15	20:30	¼	5	Displace Tubing w/ Mud
20:30	23:45	3¼	24	Wait on Weld to Warm up Tubing Stretch.
23:45	24:00	¼	7	R/S.

NOTES: Crown Saver ✓ BOP Inspection ✓ Fire Extinguisher Inspected. Boiler Blow Down @ 22:00 Hrs.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	220	Displacing Tubing 70000	→	

FOLD HERE →

118276

LICENCE NO.: SOL 99

WELL NAME AND NO.: CHEVRON ETAL LIARD K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30' N 123° 30' W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 MONTH 04 DAY 07

RIG NO. 48

FUEL @ 8:00

RIG 96m BOILER 32m

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD S-

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
							9-P-100	NATIONAL	235
							9-P-100	NATIONAL	235

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.							4-1														PACKER	WIRELINE PKG.			
	DAY							4-1															7 3/4			
	EVE.					2 1/4		1/4														3/4	3/4			
	TOTAL					2 1/4		3/4														3/4	20 3/4			

TOTALS

SHALE SHAKER(S) NO.	TYPE
8	
12	SCREENS CHANGED ☐ YES ☐ NO
4	TOP 110 / MIDDLE 110 / BOTTOM 110
24	TOP 110 / MIDDLE 110 / BOTTOM 110

RENTALS/SERVICES — MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.

SIZE (mm)

IADC CODE

MFG.

TYPE

SERIAL NO.

JETS (mm)

DEPTH OUT (m)

DEPTH IN (m)

TOTAL METRES DRILLED (m)

TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:45	7 3/4	24	RETRIVE PLUG W/ SCHLUMBERGER. RELEASE LATCH TOOL
07:45	08:00	1/4	7	R/S CLOSE ANNULAR PR. MANI O/C HCR VALVES.

NOTES: CREW SAVER FAST LINE TOOL PUNCHES BRAKE LINKAGE BOILER BLOWN DOWN @ 0100, 0500

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10.5	170°C		WATCH DOG.	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.

SIZE (mm)

IADC CODE

MFG.

TYPE

SERIAL NO.

JETS (mm)

DEPTH OUT (m)

DEPTH IN (m)

TOTAL METRES DRILLED (m)

TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	19:15	11 1/4	24	RAN WIRELINE W/ SCHLUMBERGER
19:15	20:00	1/4	7	R/S SERVICE

NOTES: CROWN SAVER, BRAKE LINKAGE, CHAIN & BRAKE

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	175			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.

SIZE (mm)

IADC CODE

MFG.

TYPE

SERIAL NO.

JETS (mm)

DEPTH OUT (m)

DEPTH IN (m)

TOTAL METRES DRILLED (m)

TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	24:00
DENSITY kg/m³	1185
FUNNEL VIS. - (S/L)	157
W.L. (cm³)	5
pH	10.5
PUT	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	50

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:45	3/4	24	RETRIVE FISH TEST OUT SCHLUMBERGER.
20:45	21:30	3/4	22	UNLATCH FROM PACKER.
21:30	23:45	2 1/4	6	CIRC HOLE.
23:45	24:00	1/4	7	R/S FUNCTION RAMS TEST.

NOTES: CROWN SAVER, BRAKE LINKAGE, FAST LINE CHAIN GUARD

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

FOLD HERE →

118275

LICENCE NO.: SDL 7 | WELL NAME AND NO.: CHEVRON ET ALLIARD K-27 60°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES. | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60°30'N 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 04 | DAY 26 | RIG NO. 48

FUEL @ 8:00

RIG 1.10 m | BOILER Arc 3L/min

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS 1539 | WIND DIRECTION | RQ45 - 655868

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
							9-P-100	NATIONAL	235
							7-P-100	NATIONAL	235

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.							1/4															Wireline Brake		7 3/4		
DAY							1/1														1 1/2			11 1/2		
EVE.							1/4																	3 3/4		
TOTAL							3 1/4														1/4					

TOTALS

4	SHALE SHAKER(S) NO.	TYPE
12	SCREENS CHANGED ☐ YES ☑ NO	
4	TOP 110	TOP 110
24	MIDDLE 110	MIDDLE 110
	BOTTOM 110	BOTTOM 110

RENTALS/SERVICES — MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.

SIZE (mm)

IADC CODE

MFG.

TYPE

SERIAL NO.

JETS (mm)

DEPTH OUT (m)

DEPTH IN (m)

TOTAL METRES DRILLED (m)

TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Hoist Operator

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	07:45	7 3/4	24
07:45	08:00	1/4	7

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Wireline Plug in R Nipple.

R/S for Leaking Choke O/C 27 seconds.

NOTES: Crown Saver ✓ Brake Linkage ✓ Int Line Choke ✓ Mouse. Boiler Blown Down @ 0200, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.

SIZE (mm)

IADC CODE

MFG.

TYPE

SERIAL NO.

JETS (mm)

DEPTH OUT (m)

DEPTH IN (m)

TOTAL METRES DRILLED (m)

TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	18:00	1/2	21
18:00	18:15	1/4	21
18:15	19:45	1 1/2	24
19:45	20:00	1/4	7

Wire Line Screw Hole Cutter & Schlumberger.

Safety Meeting Prior To Rigging In & Out.

Run Wire Line Cutter.

R/S Service Rig Hydraulic Hose 1/2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES: Crown Saver ✓ Brake Linkage ✓ Int Line Choke ✓ Mouse.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.

SIZE (mm)

IADC CODE

MFG.

TYPE

SERIAL NO.

JETS (mm)

DEPTH OUT (m)

DEPTH IN (m)

TOTAL METRES DRILLED (m)

TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	21:45	1 3/4	24
21:45	22:00	1/4	7
22:00	24:00	2	24

Run in to Retrieve Cutter.

R/S close Tubing Ramps from O/C 75 secs.

R & M Schlumberger To Retrieve Plug.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES: Crown Saver ✓ Brake Linkage ✓ Int Line Choke ✓ Mouse. Boiler Blown Down @ 2000, 2330

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
11	9	225°C		Rig Down Survey	

FOLD HERE →

118274

LICENCE NO.: SDL

WELL NAME AND NO.: CHEVRON ET AL LINRD K-21 60°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-21 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Sick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 94 MONTH 04 DAY 05

RIG NO. 48

FUEL @ 8:00

RIG 124cm BOILER Cap 30cm

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS 1539; WIND DIRECTION; ROAD Solid

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
							9-P-100	NATIONAL	235
							9-P-100	NATIONAL	235

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Wiper Trips	Ream Tight Hole	Wireline Runs		
MORN.						3½	¼		3½			0½									¼	¼				
DAY							¼					7½									¼					
EVE.					4		¼					¼									½		3			
TOTAL					4	3¼	1		3½			10									1	½	3			

TOTALS: 8 | 4 | 4 | 7½

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP 110 TOP 110

MIDDLE 110 MIDDLE 110

BOTTOM 110 BOTTOM 110

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | OOC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	TRIP RECORD
DENSITY kg/m³	MEAS. 13.98
FUNNEL VIS. - (S/L)	CALC. 13.91
W.L. (cm³)	DIFF. .07
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:30	½	6	Lay Down Drill Pipe
00:30	01:15	¾	6	Run in Hook 120 of 7 5/8" Drill Pipe
01:15	02:00	¾	7	Slip & Cut Drill Line
02:00	04:00	2	6	Lay Down Drill Pipe
04:00	04:15	¼	22	Lay Down Baker Tools
04:15	04:30	¼	7	R/S Func. Blind Rams (Mud Floor Exec'n)
04:30	05:30	1	23	Rig up To Run Tubing
05:30	05:45	¼	21	Safety Meeting
05:45	08:00	2¼	12	Run Tubing

NOTES: Blocks, Linkage, Crown Saver, Clamp Anchor, Boiler Blow Down @ 0330 Hrs

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | OOC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:15	¼	21	Held Safety Meeting Prior To Running Tubing
08:15	12:30	4¼	12	Run Tubing.
12:30	12:45	¼	7	R/S Close Annular Ft. Main
12:45	16:00	3¼	12	Run Tubing.
				Function test on fire fly ✓

NOTES: Crown Saver, Brake Linkage, Fasline Clamp, Anchor, Boiler Blow Down @ 1100

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225°C		Running Tubing	

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | OOC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	20:00
DENSITY kg/m³	1185
FUNNEL VIS. - (S/L)	135
W.L. (cm³)	
pH	10.0
Temp.	144°C

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:15	¼	12	Rig To Circ Tubing.
16:15	19:00	2¾	5	Circ Tubing.
19:00	19:30	½	21	Safety Meeting
19:30	20:45	1¼	5	Circ. Tubing.
20:45	23:45	3	24	Set Tubing Hgr, Packer, Rig Up Tubing Run Wireline Packer.
23:45	24:00	¼	7	R/S Sheaves

NOTES: Crown Saver, Brake Linkage, Fasline Clamp, Anchor,

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

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118273

LICENCE NO.: SDL

WELL NAME AND NO.: CHEVRON ET AL LIARD K-27 60°30'N 123°30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60°30'N 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR: 17 MONTH: 03 DAY: 04

RIG NO.: 48

FUEL @ 8:00

RIG: 144 cm BOILER: Gas 32cm

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

	TEMPERATURE °C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
CURRENT CONDITIONS		127	27	E	108	152	5"XH	101	9-P-100	NATIONAL	335
WIND DIRECTION		127	27	X2	106	152	5"XH	153	9-P-100	NATIONAL	335
ROAD		127	39	X3	101	156	5"XH	164			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.						5½	¼					¼									1	1			
	DAY																									
	EVE.						3½	¼													2½					
	TOTAL																									

TOTALS: 8 | 4

SHALE SHAKER(S)

NO.: TYPE:

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
110	110
MIDDLE	MIDDLE
110	110
BOTTOM	BOTTOM
110	110

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC: 1000 daN

WT. OF STRING: 1000 daN

BIT RECORD

BIT NO.:
SIZE (mm):
IADC CODE:
MFG.:
TYPE:
SERIAL NO.:
JETS (mm):
DEPTH OUT (m):
DEPTH IN (m):
TOTAL METRES DRILLED (m):
TOTAL HOURS RUN:

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG:
TORQUE AT BOTTOM:
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME:
DENSITY kg/m³:
FUNNEL VIS. - (S/L):
W.L. (cm³):
pH:

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRO RM-R CORE-O	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152			

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	¼	12	Run Tubing
00:15	01:15	1	22	Rig out Fi Canada
01:15	02:15	1	23	Make up Packer
02:15	07:45	5½	6	R.T.H. with Packer
07:45	08:00	¼	7	RIS

NOTES: Brakes, Lubrage, Crown Saver, Chain, Air Line, Floor, Hand Tools 04:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC: 1000 daN

WT. OF STRING: 1000 daN

BIT RECORD

BIT NO.:
SIZE (mm):
IADC CODE:
MFG.:
TYPE:
SERIAL NO.:
JETS (mm):
DEPTH OUT (m):
DEPTH IN (m):
TOTAL METRES DRILLED (m):
TOTAL HOURS RUN:

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG:
TORQUE AT BOTTOM:
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	18:00
DENSITY kg/m³	1160
FUNNEL VIS. - (S/L)	63
W.L. (cm³)	
pH	10.4
	99.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRO RM-R CORE-O	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
4120	152	120	114	

REDUCED PUMP SPEED: 1050 @ 60 @ Surface

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
TRIP IN -	CAL 9.96m³	
	MEAS 9.93m³	
	DIFF .07	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	13:30	5½	6	Running to 2455 w/ Packer
13:30	15:30	2	11	Rig in + Log Packer Depth / Tonnage
15:30	17:00	1½	23	Drop Ball + Set Packer.
17:00	17:30	½	15	Pressure Packer to 17000 KPA
17:30	18:00	½	23	Blow Packer Seal To Circ.
18:00	18:15	¼	7	R/S Close Annular & Floor o/c 16 Seconds
18:15	18:45	½	5	Circ Hole. (Rig in Daypower Truck)
18:45	19:00	¼	21	Held Safety Meeting Prior To Laying Down D.P.
19:00	20:00	1	6	Lay Down 4" DP / Daypower D.P.

NOTES: Crown Saver / Brake Lubrage / Fast Line Chain / Ground, -Grease Crown Blocks Bridle Line Sheaves.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				Environmental	65S1

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC: 1000 daN

WT. OF STRING: 1000 daN

BIT RECORD

BIT NO.:
SIZE (mm):
IADC CODE:
MFG.:
TYPE:
SERIAL NO.:
JETS (mm):
DEPTH OUT (m):
DEPTH IN (m):
TOTAL METRES DRILLED (m):
TOTAL HOURS RUN:

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG:
TORQUE AT BOTTOM:
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME:
DENSITY kg/m³:
FUNNEL VIS. - (S/L):
W.L. (cm³):
pH:

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRO RM-R CORE-O	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	¼	21	Safety Meeting
20:15	03:45	3½	6	Lay Down Pipe from D 5 stds, 30 stds, 16 stds
03:45	04:00	¼	7	RIS Function Blower Pipe Rams / Floor Valve

NOTES: Brakes, Lubrage, Crown Saver, Chain, Air Line, Boiler Blow Down @ 20:00 + 00:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	225			

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118272

LICENCE NO.: SQ

WELL NAME AND NO.: CHEVRON CALMAR K-21 60°30'N 123° 30'W

OPERATOR: CHEVRON Can. Res.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-21 60°30'N 123° 30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 97 | MONTH 04 | DAY 03

RIG NO. 48

FUEL @ 8:00

RIG 169 cm | BOILER Bss 32cm

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS 10S15; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	445	227.82	64.37	Vamtex	H40	71	769.59	7.31	2500
	244.5	220.50	69.94	Vamtex	H40	120	1535.74	7.31	2500

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	106	152	5" XH	121	[illegible]	National	235
127	29	X2	106	158	5" XH	133	9-P 100	National	235
127	38	X3	101	154	5" XH	162			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22 Flow ✓	23 Rig Inspection	24	25	26
OPER.																						3/4				
MORN.					5½	1½	¼																			
DAY					23½	6	¼				1	¼									½		1¼			
EVE.							¼					1														
TOTAL																										

TOTALS

	8
	12
	4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
110	110
MIDDLE	MIDDLE
110	110
BOTTOM	BOTTOM
110	110

RENTALS/SERVICES — MORN. | DAY. | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.25 m
1/1	B.S/X10		173/1.06 m
55	F2-DP		524.54 m
1/1	X10/X10		132.24 m
1/1	Stabilizer/BS.		1.81/1.75 m
1/3	X10/MWDP		109/97.45 m
1	JAR		6.58 m
33	MWDP		302.60 m
	BHA		36.58 m
44	F2DP		418.96 m
126	X2DP		1205.67 m
17	D.P.	STANDS	475.62 m
	D.P.	SINGLES	m
	KELLY DOWN		9.48 m
	TOTAL		2786.25 m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	RR17
SIZE (mm)	215.9
IADC CODE	
MFG.	SEC
TYPE	S456F
SERIAL NO.	731699
JETS (mm)	OPEN
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	0900	04:00	0900
DENSITY kg/m³	1160	1160	1145
FUNNEL VIS. - (S/L)	55	52	54
W.L. (cm³)	6.0	6.4	6.4
pH	10.4	10	10.5
		1134	1151

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1160	1030	2010
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
6400	152	120		

REDUCED PUMP SPEED

1800 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	1/4	5	Wash in 3 stands - 2790m
00:15	03:15	3	5	Circ. & Cond. Mud
03:15	04:00	3/4	22	Flow (slight flow)
04:00	06:15	2 1/4	5	Circ. & Cond. Mud
06:15	07:45	1 1/2	6	Flow, Pump Pill, Pooh
07:45	08:00	1/4	7	RB Fork, Adjust & Floor 15 sec's

NOTES

V Brakes, Linkage, Crown Saver, Clamp, Alarm

Boiler Blow Down @ 04:00 and @ 00:00 hrs

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	7.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	B.S/X10		.25 m
1/1	X10/X10		173/1.06 m
55	F2-DP		524.54 m
1/1	X10/X10		132.24 m
1/1	Stabilizer/BS.		1.81/1.75 m
1/3	X10/MWDP		109/67.05 m
1	JAR		6.58 m
33	MWDP		302.60 m
	BHA		36.58 m
44	F2-DP		418.96 m
126	X2-DP		1205.67 m
17	D.P.	STANDS	475.62 m
	D.P.	SINGLES	m
	KELLY DOWN		9.48 m
	TOTAL		2758.23 m
WT. OF DC		1000 daN	
WT. OF STRING	100	1000 daN	

BIT RECORD

BIT NO.	RR17
SIZE (mm)	215.9
IADC CODE	
MFG.	SECURITY
TYPE	S456F
SERIAL NO.	731699
JETS (mm)	OPEN
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME		1200	
DENSITY kg/m³		1150	
FUNNEL VIS. - (S/L)		64	
W.L. (cm³)			
pH		10.3	
		121.8	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAL CARB	207 SX
CAUSTIC	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
6600	152	120	114	

REDUCED PUMP SPEED

3200 @ 100 @ 100

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
MEAS	15.41 m³	
CALC	1599 m³ / 142 m³	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:15	3 1/4	6	Wiper Trip to 1500m. Run in to 877m.
11:15	13:00	1 3/4	5	Circ + Condition Mud.
13:00	13:15	1/4	7	R/S close Lower Pipe Rams & Pull Pit Test
13:15	18:00	4 3/4	6	Flow / Pump Pill / Hoist Tour Change. Pull 6 Stds / VP Bo's to / Crown Out of Hole.
18:00	19:00	1	5	Circ + Work Pipe @ 1500 Metres.
19:00	20:00	1	11	Rig to + W.E.S. Run Quick Ring.

NOTES

V Brakes, Linkage, Crown Saver, Clamp, Alarm

Function test Pipe Rams ✓

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
					6796

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	21:00	1	11	Rig Grease Rig w/ Schlumberger
21:00	21:15	1/4	2b	Crew Safety Meeting
21:15	22:30	1 1/4	3	Rig in Ft Calmar
22:30	22:45	1/4	31	Safety Meeting
22:45	23:45	1	12	Rig Tour Dry
23:45	09:00	1/4	7	RS Fork Tour Dry Runs

NOTES

V Brakes, Linkage, Crown Saver, Clamp, Alarm

Boiler Blow Down @

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

FOLD HERE →

118271

LICENCE NO.:	WELL NAME AND NO.:
SDL 98	CHEVRON ET AL LIARD K-27 60°30'N 123°30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CAN. RES.	AKITA DRILLING LTD
SURFACE LOCATION:	**UNIQUE ID.:**
K-27 60°30'N 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 04 | DAY 02

RIG NO. 48

FUEL @ 8:00

RIG 35 | BOILER Gas 34

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
244.5	221.10	64.57	JAM PRO	M-10	71	769.52	7.31	3500
244.5	220.50	69.94	JAM PRO	M-10	120	1535.74	7.31	3500

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	SNOW
WIND DIRECTION	
ROAD	GAS 630

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	159	5 1/2 FH	121	7-P-100	NATIONAL	235
127	29	X2	106	159	5 1/2 FH	133	7-P-100	NATIONAL	235
127	38	X3	101	156	5 1/2 FH	166			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 RIG MOVING	24	25	26
	MORN.						6 3/4	1/4		3/4												1/4				
	DAY						6 1/2	1/2					1 1/4									1/4	1/2	1 1/4			
	EVE.						3	1/4														1/4		1/2			
	TOTAL																										

TOTALS

	8
	4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
110	110
MIDDLE	MIDDLE
110	110
BOTTOM	BOTTOM
110	110

RENTALS/SERVICES | MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	X10		0.56
1	X10		0.21
1	JAR		2.09
1	X10		0.20
1	6 3/8 DP		9.43
	BHA		12.21
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAUSTIC	45X
LIME	45X
LIGNITE	25X
PAPER	35X
KCL	45X
CALCIUM	168.5X

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	04:45	1 3/4	6	MAKE UP TOOLS & R.I.H. TO 725m.
04:45	05:30	3/4	9	SLIP & CUT 12m
05:30	05:45	1/4	7	RIG SERV. ANNULAR / MANIFOLD SEC 5/6
05:45	07:45	1	6	R.I.H. TO 1600m
07:45	09:00	1 1/4	22	KATCH CAT to PACKER
09:00	13:00	4	6	P.O.O.H. WITH PACKER

NOTES

V. RAMS / LATCH, CROWN SAVER, CLAMP, FIRE BOILER BLOW DOWN 300 07:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
2	9	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	6 3/4 X10		0.35
55	6 3/4 DP		524.54
1	X10		0.38
1	SCRIBER/B.S.		1.58
1	X10		0.19
1	JAR		6.58
33	HWDP		302.60
			967.55
44	6 3/4 DP		418.96
134	X2 6 3/4 D.P.		1405.97
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR17
SIZE (mm)	215.9
IADC CODE	
MFG.	SECURITY
TYPE	CS86F
SERIAL NO.	731699
JETS (mm)	OPEN
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		114	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
CALC.	763 m³	
MEAS	579 m³	
DIFF	1.5	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	15:30	7 1/2	6	Pull out of Hole w/ Packer
15:30	16:00	1/2	22	Lay out Packer
16:00	17:15	1 1/4	23	R & U to Pump Tubes & Lay out Truck.
17:15	17:30	1/4	7	R/S Close Upper Tubing Rams on Tubing
17:30	17:45	1/4	21	Safety Meeting.
17:45	19:00	1 1/4	12	Lay Down Tubing / Flow out of Hole
19:00	20:00	1	6	Rig up to Run Bit + Scraper.
				Fed Transfer 71m³ Rig Shut Dep 75cm
				Tank Dip 173cm
				Get Bring Rams out of Hole.

NOTES

V. Rams, Saver, Brakes, Lockout, Floor, Crown, Anchor

Boiler Shut IN

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
				Rams out Tubing	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1/1	B.S./X10		0.73
55	6 3/4 DP		524.54
1/1	X10/X10		0.38
1/1	SCRIBER/B.S.		1.58
1/3	X10/HWDP		10.19
1	JAR		6.58
33	HWDP		302.60
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR17
SIZE (mm)	215.9
IADC CODE	
MFG.	SEC.
TYPE	CS86F
SERIAL NO.	731699
JETS (mm)	OPEN
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	1/4	21	Safety Meeting
20:15	21:15	1	6	Pick up Hydraulic Jar
21:15	21:45	1/2	23	Rig out / Lay down Truck
21:45	23:45	2	6	R.I.H. To 1500m. Break Circ.
23:45	24:00	1/4	7	R/S Funk Lower Pipe Rams & Manifold Sec 5/6

NOTES

V. Rams, Leakage, Crown Saver, Clamp, Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

118270

LICENCE NO.: SDL99 | WELL NAME AND NO.: CHEVRON ET AL LINCO K-27 60°30'N 123°30'W

OPERATOR: CHEVRON CDN. RES. | CONTRACTOR: ARTA DRILLING LTD

SURFACE LOCATION: K-27 60°30'N 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 04 | DAY 07 | RIG NO. 48

FUEL @ 8:00

RIG .95 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS 16/5°; WIND DIRECTION; ROAD GOOD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.66	60.57	VAM PRO	M-T60	71	964.59	7.31	2500
	244.5	220.50	67.74	VAM PRO	M-T60	120	1535.74	7.31	2500

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	27	E	106	152	5"XH	121	T-P-100	NATIONAL	235
127	27	X2	106	152	5"XH	133	T-P-100	NATIONAL	235
127	38	X3	94	156	5"XH	168			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26	TOTALS
	MORN.						2½	¼					1¾									½	3				8
	DAY																										
	EVE.																										
	TOTAL																										

SHALE SHAKER(S): NO. | TYPE | SCREENS CHANGED ☐ YES ☐ NO | TOP 110 | MIDDLE 110 | BOTTOM 110 | TOP 110 | MIDDLE 110 | BOTTOM 110

RENTALS/SERVICES | MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
TRIP RECORD		
MENS.	13.99	
CALC.	13.80	
DIFF.	.19	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:45	1¾	6	POOH, TOH DP. FLOW ✓
01:45	02:15	½	22	RIG UP E/L CANADA LAYDOWN TRUCK
02:15	02:30	¼	21	SAFETY MEETING
02:30	03:45	1¼	6	LAY DOWN HWDP, FLOW ✓ OUT OF HOLE
03:45	05:45	2	22	RIG UP E/L CANADA TO RUN TUBING
05:45	06:00	¼	21	SAFETY MEETING
06:00	06:15	¼	7	RIG FUNC. BLIND RAMS T/FLOOR EXC'D
06:15	08:00	1¾	12	RUN TUBING

NOTES: BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR, BOILER BLOW DOWN

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	7	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	BHA		5.90 m
83	STANDS DP		949.40 m
23	SINGLES DP		165.53 m
XO			
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		1606.23 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

152 | 114

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:15	¼	21	HOLD OPERATIONS MEETING.
08:15	09:00	¾	22	TEAR OUT LAY DOWN TRUCK
09:00	10:00	1	23	RIG UP PACKER
10:00	14:00	4	6	RUNNING PACKER ON PIPE EXCEPT 35 STDS. RUNNING TO 1600m.
14:00	17:45	3¾	24	PACKER HANGING UP WORK PACKER. TRY TO FREE / BACK OFF PACKER / ATTEMPT TO BLOW SEALS (NO GO)
17:45	20:00	2¼	6	FLOW / HOIST TO CHECK SEALS / RUN WET / FLOW'D 6 STDS / @ 30 STDS.

NOTES: Baker Blow Down @ 1100, 1500, 1900

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:45		6	P.O.O.H. FLOW ✓ D 60 STDS. OUT OF HOLE
23:45	01:00		22	LAYDOWN BAKER TOOLS
01:00	01:15		7	RIG FUNC. BLIND RAMS 6 SEC'S T/FLOOR
01:15	03:30		26	CHANGE OUT TOP PIPE RAMS TO TUBING RAMS
03:30	04:00	½	15	PRESS TEST RAM DOORS TO 14000 KPA

NOTES: ✓ BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR, BOILER BLOW DOWN @ 2200

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	7	225			

FOLD HERE →

118269

LICENCE NO.: SOK-17

WELL NAME AND NO.: CHEVRON ET AL KHARD K-21 60° 30'N 123° 30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: ARTA DRILLING LTD

SURFACE LOCATION: K-21 60° 30'N 123° 30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (8 required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flexibles & Degasser Lines	Initial	Initial

(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial
(3) Mast Inspection Before Raising or Lowering	Initial
(4) Crown Saver Checked	Initial
(5) Motor Kills checked	Initial

YEAR 91 MONTH 03 DAY 31

RIG NO. 48

FUEL @ 8:00

RIG 1.18 BOILER 32 m³

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)
	244.5	220.68	64.37	VAMPRO	M-80	171	964.52	7.31	2500
	244.5	222.50	69.94	VAMPRO	M-80	120	1535.74	7.31	2500

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5½ XH	121	9-P-100	NATIONAL	335
	127	29	X	108	152	5½ XH	133	9-P-100	NATIONAL	335
	127	38	X	101	156	5½ XH	162			

TIME-HRS

CODE NO.	1 OPER	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.					1½	5	¼														¼	1	W.O.O.		
	DAY						6¼	¼														½	1¼	3¾		
	EVE.																									
	TOTAL																									

TOTALS

	8
	12

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP 110	TOP 110
MIDDLE 110	MIDDLE 110
BOTTOM 110	BOTTOM 110

RENTALS/SERVICES — MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	01:00
DENSITY kg/m³	1160
FUNNEL VIS. - (S/L)	60
W.L. (cm³)	
pH	10
	114

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
5750	152	120		

REDUCED PUMP SPEED

18:00 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	01:30	1½	5
01:30	06:00	4½	6
06:00	07:00	1	22
07:00	07:15	¼	7
07:15	07:30	¼	21
07:30	08:00	½	6

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

CIRC. & WORK PIPE
FLOW CHECK / PUMP PILL. POOH. FLOW CHECK SHOE, ADJ STAB, HWDP
RIG UP FT CALIBER TO LAY DOWN HWDP
RIG FLOOR TOOLPUSHER ROOMS FLOOR SAFETY
SAFETY MEETING
LAY DOWN HWDP

NOTES
VISUAL BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR
BOILER BLOW DOWN @ 03:00, 07:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT SUB		1.25 m
1	XO		1.90 m
15	ED.P.		143.39 m
16	HWDP		146.56 m
1	JAR		6.58 m
20	HWDP		183.52 m
	BHA		482.95 m
84	ED.P.		800.11 m
126	XD.P.		1205.87 m
17	D.P.	STANDS	492.98 m
X3	D.P.	SINGLES	9.66 m
SINGLE	KELLY DOWN		9.33 m
	TOTAL		3000.90 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR17
SIZE (mm)	215.9
IADC CODE	
MFG.	SECURITY
TYPE	GS86F
SERIAL NO.	731699
JETS (mm)	OPEN
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	15-25 ↑ 10-15 ↓
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	17:00	19:00
DENSITY kg/m³	1160	1150
FUNNEL VIS. - (S/L)	92	62
W.L. (cm³)		9
pH		10.3
	PVT 1153	118.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Gypsite	3
Lime	4
Caustic	1

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3000				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
3600	152	90	114	

REDUCED PUMP SPEED

1000 @ 45 @ 3000

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
Calc	12.71 m³	
Meas.	3.14 m³	
Dif	15.7 m³	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	08:15	¼	21
08:15	09:30	1¼	6
09:30	09:45	¼	21
09:45	10:45	½	6
10:45	12:00	1¼	6
12:00	13:45	3¼	22
13:45	16:00	3¼	6
16:00	17:30	1½	23
17:30	17:45	¼	7
17:45	20:00	2¼	23

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

HOLD SAFETY MEETING W/CREW FOR LAY DOWN HWDP
LAY DOWN HWDP & LAY DOWN SCRIBED DRILL PIPE.
HOLD OPERATIONS MEETING.
MAKE UP BIT + RUN IN RIS STDS D.P.
RIG UP LAY DOWN TRUCK TO PICK UP HWDP
P.U. & L.D. HWDP + RUN IN
TEAR OUT LAY DOWN TRUCK.
RUN IN BEGIN CIRC @ 1425m + 2488m.
CIRCULATE. HOLD + WAIT ON ORDERS
R/S CIRC BOTTOMS UP PUMP PRESS @ 11.0 MPa 75 SPM
CIRC. HOLE + WAIT ON ORDERS

NOTES
VISUAL SAVER/BRAKES/FASTLINE CRACK BRAKE LINKAGE
Boiler Blow Down @ 11:00 14:00 17:00 HRS.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	215°C	135,000	HAMMER HOSE	6796

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT SUB		.25 m
1	XO		.75 m
15	ED DP		1.90 m
16	HWDP		143.39 m
1	JAR		6.58 m
20	HWDP		183.32 m
	BHA		482.95 m
84	ED DP		800.11 m
126	XD DP		1205.87 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR17
SIZE (mm)	215.9
IADC CODE	
MFG.	SEC.
TYPE	GS86F
SERIAL NO.	731699
JETS (mm)	OPEN
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	20:00	
DENSITY kg/m³	1150	1150
FUNNEL VIS. - (S/L)	62	58
W.L. (cm³)		7.0
pH	10.3	10.7
	PVT 121.1	117.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Gyp/Gub	56

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
3450	152	90		

REDUCED PUMP SPEED

1000 @ 45 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	21:00	1	5
21:00	23:30	2½	6
23:30	23:45	¼	21
23:45	24:00	¼	7

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

CIRCULATE
FLOW / POOH PILL. P.O.O.H.
CREWMEETING
RIS CHK. BHA / MWD / Mud motor SEC 9/10

NOTES
VISUAL BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR
BOILER BLOW DOWN @

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	225			

Jan 31/99 - May 7/99

FOLD HERE →

118268

LICENCE NO.: SDL 98 | WELL NAME AND NO.: CHEVRON ET AL LINED K-29 66° 30' N 123° 30' W

OPERATOR: CHEVRON CAN. RES. | CONTRACTOR: AKITA DRILLING LTD.

SURFACE LOCATION: K-29 66° 30' N 123° 30' W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 05 | DAY 30

RIG NO. 48

FUEL @ 8:00

RIG 140 | BOILER 32

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	225.82	64.37	VAM PRO	M-80	71	764.52	7.31	3500
	244.5	220.50	69.94	VAM PRO	M-80	170	1535.94	7.31	3500

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	SSSI
WIND DIRECTION	
ROAD	AAA, 650, 278

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	159	5½ XH	121	T-P-100	NATIONAL	235
127	29	X2	106	159	5½ XH	133	T-P-100	NATIONAL	235
127	32	X3	101	156	5½ XH	162			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
MORN.							1/4				7 3/4															
DAY																										
EVE.																										
TOTAL																										

TOURS: 8

SHALE SHAKER(S) | **RENTALS/SERVICES**

NO. | TYPE:

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
110	110
MIDDLE	MIDDLE
110	110
BOTTOM	BOTTOM
110	110

MORN. | DAY | EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	07:45	7¾	11	Log W/ Schlumberger
07:45	08:00	¼	7	RIS

NOTES: V-Doors, Linkage, Crown Saver, Clamp, Anchor. Boiler Blow Down @ 03:00, 07:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	6.5/X0		.25 / 1.90 m
27	F2-D.P.		255.60 m
1/1	X0/D.P.		38/.24 m
1	SCRAPPER		1.88 m
1/1	6.5/X0		.74/1.65 m
3	H-DP		27.48 m
1	JAR		6.58 m
33	H-DP		309.60 m
72	F2-D.P. →		679.90 m
126	X2-DP →		1185.87 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR17
SIZE (mm)	215.9
IADC CODE	
MFG.	SECURITY
TYPE	GS86F
SERIAL NO.	731699
JETS (mm)	OPEN
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

2200 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	16:00	8	11	Log W/ SCHLUMBERGER, TEAR OUT Loggers
16:00	16:30	½	7	R/S Close Blind Rams Fc. Flare + Manifold
16:30	20:00	3½	6	Make up BIT + Scraper + 2 HWDP / Break Circ @ 1315m.

NOTES: V-Doors, Linkage, Crown Saver, Clamp, Anchor. Boiler Blow Down @ 11:00, 15:00, 19:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225C		S.C. B.A.	679t

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	6.5/X0		.25 / 1.90 m
27	F2 DP		258.60 m
1/1	X0/D.P.		38/.24 m
1	SCRAPPER		1.88 m
1/1	6.5/X0		.74/1.65 m
3	HWDP		27.50 m
1/33	JAR/HWDP		6.58/309.60 m
	BHA		663.05 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR17
SIZE (mm)	215.9
IADC CODE	
MFG.	SEC.
TYPE	GS86F
SERIAL NO.	731699
JETS (mm)	OPEN
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	2300
DENSITY kg/m³	1150
FUNNEL VIS. - (S/L)	61
W.L. (cm³)	
pH	10.1
HV	119.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CACL2	56 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
5700	152	60		

REDUCED PUMP SPEED

1600 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	21:30	1½	6	C.I.H. To 2725.48m
21:30	23:45	2¼	5	Circ. Wiper Pipe
23:45	24:00	¼	7	RIS Flare, Adjust F/ Flow Hose C/O

NOTES: V-Doors, Linkage, Crown Saver, Clamp, Anchor. Boiler Blow Down @ 23:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	225			

FOLD HERE →

118267

LICENCE NO.: SDL 99 | WELL NAME AND NO.: Chevron Et Al Liard K-37, 60 BUR, 127° BUR

OPERATOR: Chevron Canada Resources Ltd | CONTRACTOR: Akita Drilling Ltd

SURFACE LOCATION: K-37, 60°30' N, 127° 30' W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR: 91 | MONTH: 03 | DAY: 31

RIG NO.: 49

FUEL @ 8:00

RIG: 1.5E | BOILER: 32

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	3234
WIND DIRECTION	22781
ROAD	

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.82	69.37	Vam/Lo	MN80	71	964.52	7.31	2500
	244.5	220.50	69.41	Vam/Lo	MN80	120	1535.74	7.31	2500

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	77	E	108	152	5½ FH	131	7-P100	NATIONAL	235
	127	77	X2	106	152	5½ FH	133	7-P100	NATIONAL	235
	127	38	X3	101	156	5½ FH	119			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.					1½	5½	4½		3/4															
	DAY					3/4	5¼	1/4				1 3/4													
	EVE.											4													
	TOTAL																								

TOTALS

8																									
8																									

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP 110 | TOP 110

MIDDLE 110 | MIDDLE 110

BOTTOM 110 | BOTTOM 110

RENTALS/SERVICES

	MORN.	DAY	EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.25 m
1	6.5 SHS		.75 m
1	6½		1.90 m
15	23 DP		145.56 m
12	NMDP		105.11 m
1	DAC		6.58 m
21	HWDP		220.67 m
	BHA		485.12 m
93	E DP		943.50 m
126	X DP		1205.87 m
			m
323	3 D.P.	STANDS	347.50 m
8	23 D.P.	SINGLES	8.75 m
	KELLY DOWN		8.06 m
	TOTAL		3000 m
WT. OF DC		1000 daN	
WT. OF STRING	99	1000 daN	

BIT RECORD

BIT NO.	17
SIZE (mm)	216
IADC CODE	
MFG.	Hughes
TYPE	GS86F
SERIAL NO.	731699
JETS (mm)	3x15
DEPTH OUT (m)	
DEPTH IN (m)	3000
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 7-14 V 6-11

TORQUE AT BOTTOM 11000 - 12000

FILL ON BOTTOM (m) 0

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	07:00
DENSITY kg/m³	1145
FUNNEL VIS. - (S/L)	60
W.L. (cm³)	6.6
pH	10.1
PVT	118.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
7400	152	120		

REDUCED PUMP SPEED

3000 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	04:15	4¼	6	Make up Bit & Run In Hole Fill @ 2500 m 1425 - 2500 m
04:15	05:30	1¼	5	Slip & Cut 36 m
05:30	05:45	¼	7	Rig Service Fix Brk Pipes @ Mast Leg
05:45	06:30	¾	6	Run In Hole Wash To Btm f/ 2580 - 3000 m
				No Fill
06:30	08:00	1½	5	Circ Cond Mud.

NOTES: Crown Saver Brakes & Linkage Checked Function Tested Ok

Pason Blind Drum @ 11:00 - 15:00

BOILER: HRS. RAN 8 | ph 9 | STACK TEMP. 2758

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	3 SX
Bentonite	2 SX
Lignite	3 SX
Fe Cos	56

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
7350	152	120	152	

REDUCED PUMP SPEED

2000 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
TRIP RECORD		
MEAS	14.10	
CALC	14.03	
DIFF	.07	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:45	¾	5	Circ & Cond Mud.
08:45	14:00	5¼	6	Flow Ck, Pump Pill, Pooh, Flow Ck Stop 50 SDS, TS SDS, HWDP, Out of Hole
14:00	14:15	¼	7	Rig Func, Blind Rams F/Floor Manual Ops Ck
14:15	16:00	1¾	11	Rig up Schlumberger Run #4

NOTES: Brakes, Linkage Ground Saver, Clamp Action Pason Blind Drum @ 11:00, 15:00

BOILER: HRS. RAN 8 | ph 9 | STACK TEMP. 295

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

2000 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	24:00	8	11	Rig Tool Lo w/ Schlumberger.

NOTES: Crown Saver, Brakes, Linkage, Function Checked

Pason Blind Drum @ 2200

BOILER: HRS. RAN 8 | ph 7.5 | STACK TEMP. 2295

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. 6796

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118266

LICENCE NO.: 5046 99 | WELL NAME AND NO.: CNRL ET AL LEAMY K-29, 60° 3'5"N, 103° 30"W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AVIRA DRILLING LTD

SURFACE LOCATION: K-29 60° 3'5" N, 103° 30" W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 03 | DAY 28 | RIG NO. 418 HE

FUEL @ 8:00 | RIG 1.65 | BOILER 32

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	11633
WIND DIRECTION	
ROAD	37724

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
CASING	244.5	222.63	69.77	VAM FOX	MN80	71	964.52	7.31	2500
TUBING	244.5	220.50	69.94	VAM FOX	MN80	120	1535.74	7.31	2500
LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	87	E	108	152	5"XH	121	7" 1100	NATIONAL	279
	127	91	X2	106	152	5"XH	133	7" 1100	NATIONAL	279
	127	38	V3	101	156	5"XH	108			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.							1/4				7 3/4													
	DAY																								
	EVE.							1/4				3 3/4										1/4			
	TOTAL																								

TOTALS

	3
	4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☑ YES ☐ NO

TOP	110	TOP	110
MIDDLE	110	MIDDLE	110
BOTTOM	110	BOTTOM	110

RENTALS/SERVICES

	MORN.	DAY	EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	05:45	7 1/4	11	Loc W/SCHLUMBERGER #1GR-AIT-FMS-DSI-AMS-CMR
				#2 AIT-FMS-DSI-CSI-AMS-CMR
				TD: 2500 - 3000 - #2 SGT-DSI-EMS-NGC-HNGS
07:45	08:00	1/4	7	RIG SERVICE FOR REMOTE CAMERA

NOTES

CROWN SAVER, BEARER, LIFTING CLAMPS AND HOOK

ROUTE TO JM 7:00 #7:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	17:45	11 3/4	11	Log W/SCHLUMBERGER #2 SGT-DSI-EMS-NGC-HNGS
				#3 AIT-AFI-CCL
17:45	18:00	1/4	7	RIS

NOTES

BEARER, LIFTING CLAMPS, CROWN SAVER, CLAMP ADJUSTER

BOP DRILL @ 11:00, 11:00, 19:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225			

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:30	23:30	3	11	Log W/SCHLUMBERGER #1 GR AIT SONIC.
23:30	23:45	1/4	7	RIG SERVICE
23:45	24:00	1/4	21	SAFETY MEET

NOTES

CROWN SAVER, BEARER, LIFTING CLAMPS AND HOOK

BOP DRILL @ 23:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	225			

FOLD HERE →

118265

LICENCE NO.:	WELL NAME AND NO.:
5019 99	CHEVRON ETAL LINDA K-29 60°30'N, 123°30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING LTD
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60°30'N, 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial BL
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	03	29

RIG NO. 48 ne

FUEL @ 8:00

RIG 285 BOILER 32

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	11633
WIND DIRECTION	
ROAD	27724

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.80	64.37	VAMTEC	MN80	71	2941.52	7.31	2500
	244.5	228.50	59.94	VAMTEC	MN80	126	1535.74	7.31	2500

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	105	152	5" XH	121	9P100	NATIONAL	235
	127	29	X	106	152	5" XH	133	9P100	NATIONAL	235
	127	38	X	101	156	5" XH	168			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		6 3/4			1/2		1/4			1/2														
	DAY		10 1/4			1 1/2		1/4																	
	EVE.							1/4				3 1/2										1/4			
	TOTAL																								

TOTALS

	8
	12
	4

SHALE SHAKER(S)

NO.	TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP	110	TOP	110
MIDDLE	110	MIDDLE	110
BOTTOM	110	BOTTOM	110

RENTALS/SERVICES — MORN. / DAY / EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.25 m
1	MONEL	670	9.30 m
1	SHORT DC / FLEX	216	1.27 m
1	1103		15.55 m
2	FLEX	165	2.64 m
15	X3 DP		145.56 m
2	MONEL / JAR	159	6.58 m
25	HWDP		229.63 m
	BHA		532.28 m
99	114.00		943.50 m
116	X3 DP		1205.67 m
10	X3 D.P.	STANDS	287.43 m
2	X3 D.P.	SINGLES	19.40 m
	KELLY DOWN		9.02 m
	TOTAL		3000 m
WT. OF DC		1000 daN	
WT. OF STRING	100	1000 daN	

BIT RECORD

BIT NO.	16
SIZE (mm)	215.9
IADC CODE	537
MFG.	REED
TYPE	HP53A
SERIAL NO.	LQ4101
JETS (mm)	3 X 15.9
DEPTH OUT (m)	3000
DEPTH IN (m)	2727
TOTAL METRES DRILLED (m)	273
TOTAL HOURS RUN	50 1/2.

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 18-16 / 4-12

TORQUE AT BOTTOM 11000 - 12000 Ft lbs.

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1125	1130	1140
FUNNEL VIS. - (S/L)	55	55	55
W.L. (cm³)	6.2	6.3	6.2
pH	10.1	10.1	10.1
PVT m^3	137.1	137.4	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARACB	107 SXS
Defoamer	3 SXS
Desco	2 SXS
Lime	2 SXS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2961	3000	31	20	11/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10000	152	120	152	

REDUCED PUMP SPEED

3300 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2954.60	36.6	119.6
2964.30	36	119.3
2974.00	35.9	119.1
2983.00	36.1	119.2

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	06:45	6 3/4	2	Drlg 2961m Hole W/Motor FF: 2967 - 3000m.
06:45	07:15	1/2	10	Surveys For Hourly Deviation.
07:15	07:30	1/4	7	Rig Service Inc Noddie @ Main Hose c/o
07:30	08:00	1/2	5	Circ. Btms Up Prior To Wiper Trip.

NOTES

Crown Saver, Brakes, Housekeeping, Crown Saver

Boiler Blowdown @ 3:00 & 7:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225C	131		7042.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	16
SIZE (mm)	215.9
IADC CODE	537
MFG.	REED
TYPE	HP53A
SERIAL NO.	LQ4101
JETS (mm)	3 X 15.9
DEPTH OUT (m)	3000
DEPTH IN (m)	2727
TOTAL METRES DRILLED (m)	273
TOTAL HOURS RUN	50 1/2

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	TRIP RECORD		
DENSITY kg/m³	MEAS 1753		
FUNNEL VIS. - (S/L)	CALC 1431		
W.L. (cm³)	DIFF .22		
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Celcarb	47
Desco	1

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10000	152	120	152	

REDUCED PUMP SPEED

3500 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	0830	1/2	5	Circ. Bottoms up. + Flow ✓
0830	1130	3	6	Wiper Trip To Shoe Flow ✓ 25 Stds 40 Stds.
				RIH To Bottom No Fill
1130	1230	1	5	Circ. Bottoms up
1230	1945	7 1/4	6	Flow ✓ Pump Pill Pooh. Flow ✓ Stds, 45 Stds
				Pull BOP Layout Dir. Tools, Float out of Hole
1945	2000	1/4	7	Rig Service Blind Rams r/Floor & Truck Base c/o

NOTES

Fuel start 79cm, finish 194cm / Start 32m³, Finish 83m³

Transferred 25m³

Brakes, Leakage, Crown Saver, Clamp, Air Hose

Boiler Blowdown @ 11:00, 15:00, 19:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12					

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
2000	2330	3 1/2	11	Rig To + Run Logs
2330	2045	1/4	21	Pre Job Safety Meeting, Review Logging Ops.
2045	2100	1/4	3	Rig Service Top Drive Logs @ Main Hose c/o
2100	0100	3	11	Run Log #1 GR-AIT-BMS-DSI-AMS-CALI
				TD: 3500m TO 3000m

NOTES

Crown Saver, Brakes, Housekeeping, Crown Saver

Boiler Blowdown @ 23:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	220			

FOLD HERE →

118264

LICENCE NO.: 501 99
WELL NAME AND NO.: CHEVRON ET AL LIARD K-09, 60°30'N 123°30'W
OPERATOR: CHEVRON CANADA RESOURCES LTD
CONTRACTOR: PETRA DRILLING LTD
SURFACE LOCATION: K-09 60°30'N, 123°30'W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR: 93 MONTH: 03 DAY: 26
RIG NO.: 49
FUEL @ 8:00
RIG: 1.14 BOILER: .32

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.88	64.37	Vam/Ers	MN80	71	962.52	7.31	2500
	244.5	222.5	69.94	Vam Ers	MN80	120	1535.74	7.31	2500

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	1557
WIND DIRECTION	
ROAD	6/6 6/6

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	103	152	5 XH	121	9-P100	NATIONAL	235
127	29	X2	106	152	5 XH	133	9-P100	NATIONAL	235
127	38	X3	101	156	5 XH	108			

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.		7¼					¼			½																
DAY		16¼					¼			1½																
EVE.		3¼					¼			½																
TOTAL																										

TOTALS

8			
12			
4			

SHALE SHAKER(S)
NO. TYPE
SCREENS CHANGED ☑ YES ☐ NO
TOP 110 TOP 110
MIDDLE 110 MIDDLE 110
BOTTOM 110 BOTTOM 110

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			1.25 m
1	Varel/Reed	245	670.70 m
1	Smith/Reed	245	336.27 m
1	Hyc/Reed	245	1.55 m
1	Reed/Reed	245	6.49 m
15	3 DP		145.56 m
1	HWDP		6.54 m
25	HWDP		229.63 m
	BHA		532.78 m
9	X3 DP		943.50 m
2	X2 DP		265.27 m
7	X3 D.P.	STANDS	203.13 m
	D.P.	SINGLES	9.51 m
	KELLY DOWN		m
	TOTAL		2814.77 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	16
SIZE (mm)	215.9
IADC CODE	537
MFG.	REED
TYPE	HP53A
SERIAL NO.	LG4101
JETS (mm)	3x 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2727
TOTAL METRES DRILLED (m)	167
TOTAL HOURS RUN	30¼

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION
HOLE DRAG 4-17 ↑ 3-10 ↓
TORQUE AT BOTTOM 10-10 3rd - 11 000 ft lbs
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1105	1115	1115
FUNNEL VIS. - (S/L)	50	50	50
W.L. (cm³)	6.2	6.4	6.5
pH	10	10.1	10.1
PVT	141.3	142.0	142.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAUSTIC	2 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG / REAM / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2856	2874	38	20	12/13

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9500	152	120	152	

REDUCED PUMP SPEED
3300 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2848.10	35.6	120.3
2858.60	36.0	119.4
2868.30	36.3	120.3

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:15	7¼	2	Drill 216mm Hole f/2856m - 2874m
07:15	07:45	½	10	Service Rig Above Drawworks.
07:45	08:00	¼	7	Rig Service Full Annular @ Floor. 16sec 6

NOTES: Crown Saver, Brakes, Lubricate, Crown, Sheave, Clamps, Anchor Bolts Below Deck @ 00:00, 04:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			116	None	7552

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.95 m
1/1	Petroc/F.S.		670.70 m
1/1	Smith/Flex	Flex	336.27 m
1/1	H.O.S./Vlv		9.55 m
2/1	Flex/Vlv		16.64 m
15	X3 DP		145.56 m
1/1	HWDP/Jar		6.54 m
25	HWDP		229.63 m
	BHA		532.78 m
19	X2 DP		493.50 m
126	X3 DP		1265.27 m
9	X3 D.P.	STANDS	260.33 m
	D.P.	SINGLES	m
	KELLY DOWN		7.52 m
	TOTAL		2750 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	16
SIZE (mm)	215.9
IADC CODE	537
MFG.	REED
TYPE	HP53A
SERIAL NO.	LG4101
JETS (mm)	3 X 15.9
DEPTH OUT (m)	/
DEPTH IN (m)	2727
TOTAL METRES DRILLED (m)	203
TOTAL HOURS RUN	40½

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION
HOLE DRAG 15-20↑ 10-12↓
TORQUE AT BOTTOM 11 000 - 11 900
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	10:00	14:00	18:00
DENSITY kg/m³	1115	1125	1125
FUNNEL VIS. - (S/L)	52	52	64
W.L. (cm³)	6.5	7	7
pH	10.3	10.3	10.3
PVT	145.4	144.6	146.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAUSTIC	3 SX
PAC-R	2 SX
PAC-R	3 SX
LIGNITE	3 SX
GEL	5 SX
DEFOAMER	1 PAIL

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG / REAM / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2874	2950	56	20	11/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9700	152	120	152	

REDUCED PUMP SPEED
3300 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2859	35.4	120.1
2867	35.6	119.5
2876	36.3	120.3
2886	36.9	120.3
2895	36.5	119.3
2904	35.2	118.2

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	17:30	9½	2	Drill 216mm Hole f/2874m - 2943m
17:30	17:45	¼	7	Rig Ser. Top Drive Rams f/Floor 16sec 96
17:45	18:30	¾	2	Drill 216mm Hole f/2943m - 2950m
18:30	20:00	1½	10	Servicing for Rock Drilling

NOTES: Brakes, Lubricate, Crown, Sheave, Clamps, Anchor Bolts Below Deck @ 12:00, 17:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225	123 000		7909

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.95 m
1/1	Petroc		670.70 m
1/1	Smith/Flex		336.27 m
1/1	H.O.S.		9.55 m
1/1	Flex/Vlv		16.64 m
15	X3 DP		145.56 m
1/1	HWDP		6.54 m
25	HWDP		229.63 m
	BHA		532.78 m
9	X3 DP		943.50 m
26	X2 DP		265.27 m
9	X3 D.P.	STANDS	260.33 m
1	X3 D.P.	SINGLES	9.70 m
	KELLY DOWN		7.58 m
	TOTAL		2967.46 m
WT. OF DC			1000 daN
WT. OF STRING	100		1000 daN

BIT RECORD

BIT NO.	16
SIZE (mm)	215.9
IADC CODE	537
MFG.	REED
TYPE	HP53A
SERIAL NO.	LG4101
JETS (mm)	3 15 9
DEPTH OUT (m)	—
DEPTH IN (m)	2727
TOTAL METRES DRILLED (m)	247
TOTAL HOURS RUN	43¾

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION
HOLE DRAG 4-14↑ 6-14↓
TORQUE AT BOTTOM 11000 - 11400
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	21:00	22:00	24:00
DENSITY kg/m³	1125	1125	1125
FUNNEL VIS. - (S/L)	64	65	59
W.L. (cm³)	5.6	6.5	5.5
pH	10.3	10.1	9.9
PVT	147.1	133.9	135.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
LIGNITE	5 SX
DESCO	3 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG / REAM / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2950	2967	14	20	11/11

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10100	152	120	152	

REDUCED PUMP SPEED
3300 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2935.20	35.7	119.3
2949.90	36.0	119.0

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	23:15	3¼	2	Drill 216mm Hole f/2943m - 2967m
23:15	23:45	½	10	Servicing for Rock Drilling
23:45	24:00	¼	7	Rig Service Full Annular @ Floor 16sec 96

NOTES: Crown Saver, Brakes, Lubricate, Crown, Sheave, Clamps, Anchor Bolts Below Deck @ 23:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
9	9	225 °C	124		17757

FOLD HERE →

118263

LICENCE NO.: SOL 89

WELL NAME AND NO.: CHEVRON FINA LIARD K-29, 60°30'N, 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: FLYER DRILLING LTD

SURFACE LOCATION: K-29, 60°30'N, 123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 94 | MONTH 03 | DAY 29

RIG NO. 42

FUEL @ 8:00

RIG 145 | BOILER 32

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS 6723 | WIND DIRECTION | ROAD 617814

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	340.50	322.88	64.37	VAM/FOX	MN80	71	964.52	7.31	2500
	244.50	220.50	69.94	VAM/FOX	MN80	120	1535.74	7.31	2500

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5" XH	121	9-P100	NATIONAL	235
127	29	X2	106	152	5" X2	133	7-P100	NATIONAL	235
127	38	X3	101	156	5" X11	168			

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.		7					1/4			3/4																
	DAY		10					1/4			1 1/2											1/4					
	EVE.		23/4					1/4			1/2											1/2					
	TOTAL																										

TOTALS 12

SHALE SHAKER(S): NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP 110 | TOP 110

MIDDLE 110 | MIDDLE 110

BOTTOM 110 | BOTTOM 110

RENTALS/SERVICES | MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	MOTOR	670	.25 m
1	1 SHORT FLEX	336	.76 m
1	1 FLEX	150	7.37 m
1/2	1 1/2 DRILL	1 1/2	17.20 m
15	X3 DP		145.86 m
12	HWDP		109.41 m
1	JAR		6.58 m
2	HWDP		229.63 m
	BHA		332.78 m
99	E-DP		943.50 m
126	X2-DP		1205.07 m
3	X3 D.P.	STANDS	87.07 m
1	X3 D.P.	SINGLES	9.66 m
	KELLY DOWN		m
	TOTAL		2777.88 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	16
SIZE (mm)	215.9
IADC CODE	5 3 7
MFG.	REED
TYPE	HP53A
SERIAL NO.	LQA101
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2727
TOTAL METRES DRILLED (m)	51
TOTAL HOURS RUN	10 1/4

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 4-14 ↑ 3-10 ↓

TORQUE AT BOTTOM 7400 - 8400 Ft lbs.

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1130	1135	1130
FUNNEL VIS. - (S/L)	51	53	55
W.L. (cm³)	6.7	6.5	6.3
pH	10.2	10.3	10.3
PVT	130.3	132.3	133.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
PLASTIC	3 SX
LIGNITE	3 SX
CAUSTIC	2 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2744	2778	34	20	12/13
			60	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9400	152	120	152	

REDUCED PUMP SPEED

3300 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2730.90	35.7	121.30
2742.60	36.2	122.7
2752.30	36.6	123.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:00	7	2	DRILL 311mm HOLE W/MOTOR FR: 2744m - 2778m
07:00	07:45	3/4	10	SURVEYS FOR ABOVE DRILLING.
07:45	08:30	1/4	7	RIG SERVICE F/N BIN PUMP @ MAIN.

NOTES: CROWN SAVER, BLEEDER LINE @ MANIFOLD, CLAMP ON LINE.

BOILER Rod Dyck @ 11:00, 19:00

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
9	9	225			7387

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MOTOR	670	.25 m
1/1	SHORT FLEX	336	1.70 m
1/1	H.O.S./1/2°	244	7.37 m
1/1	FLEX/1/2°	244	1.55 m
15	X3 DP		145.56 m
22/1	HWDP/JAR		7.65 m
25	HWDP		229.63 m
	BHA		332.78 m
99	E2DP		943.50 m
126	X2 DP		1205.87 m
5	X3 D.P.	STANDS	145.08 m
	D.P.	SINGLES	m
	KELLY DOWN		7.77 m
	TOTAL		2835 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	16
SIZE (mm)	215.9
IADC CODE	5 3 7
MFG.	REED
TYPE	HP53A
SERIAL NO.	LQ4101
JETS (mm)	3 X 15.9
DEPTH OUT (m)	
DEPTH IN (m)	2727
TOTAL METRES DRILLED (m)	108
TOTAL HOURS RUN	20 1/4

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8-14 ↑ 6-10 ↓

TORQUE AT BOTTOM 7400 - 8400

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	10:00	14:00	18:00
DENSITY kg/m³	1130	1120	1120
FUNNEL VIS. - (S/L)	58	58	52
W.L. (cm³)	6.3	6.2	6.3
pH	10.3	10.3	10.1
PVT	134.6	136.3	137.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
POLYPAC XLR	2 SX
LIGNITE	2 SX
CAUSTIC	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2.5	1130	1065	2000

CENTRIFUGE

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2778	2835	57	60	12/13
			120	17/18

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9700	152	120	152	

REDUCED PUMP SPEED

3300 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2761	36.2	121.6
2771	36.5	122.3
2780	36.9	122.9
2792	36.3	122.3
2800	36.4	122.4
2810	36.6	122.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:30	3 1/2	2	DRILL 311mm HOLE F/2778m - 2792m
11:30	11:45	1/4	7	RIG SERVICE. ANNULAR F/MAIN 1650 KPa
11:45	13:45	2	2	DRILL 311mm HOLE F/2792m - 2807m
13:45	14:00	1/4	23	BOP, HOSE MAIN DRILL DRILL & SPACER/MAIN/16
14:00	18:30	4 1/2	2	DRILL 311mm HOLE F/2807m - 2835m
18:30	20:00	1 1/2	10	SURVEYS FOR ABOVE DRILLING

NOTES: VISCOUS, LOCKED CROWN SAVER, CLAMP, ANCHOR

BOILER Rod Dyck @ 11:00, 19:00

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225	117	H2S DRILL	7538

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MOTOR	670	.25 m
1/1	SHORT FLEX	336	1.70 m
1/1	H.O.S.-1/2°	244	7.37 m
1/2	FLEX - 1/2°	150	11.26 m
15	X3 DP		145.56 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		332.78 m
99	E-DP		943.50 m
126	X2-D.P.		1205.87 m
6	X3 D.P.	STANDS	174.10 m
	X3 D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		2856.25 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	16
SIZE (mm)	215.9
IADC CODE	5 3 7
MFG.	Reed
TYPE	HP 53A
SERIAL NO.	LQ4101
JETS (mm)	9 X 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2727
TOTAL METRES DRILLED (m)	129
TOTAL HOURS RUN	33

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 4-14 ↑ 3-10 ↓

TORQUE AT BOTTOM 10400 Ft lbs.

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	20:00	21:00	24:00
DENSITY kg/m³	1120	1110	1105
FUNNEL VIS. - (S/L)	50	52	51
W.L. (cm³)		6.3	6.0
pH	10.1	10.2	10.1
PVT	137.4	137.4	139.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
PolyPac ul	2 SXS
Lignite	3 SXS

SOLIDS CONTROL

DESILTER (cont.)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1120	1060	2010

CENTRIFUGE

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2835	2856	21	120	12/13

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9700	152	120	152	

REDUCED PUMP SPEED

3300 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2813.90	36.0	101
2827.60	35.1	118.9
2839.20	35.4	117.3

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:45	2 3/4	2	DRILL 311mm HOLE W/MOTOR, FR: 2835m - 2856m
22:45	23:15	1/2	21	H2S DRILL W/MAN DOWN & SAFETY MEETING/DRILL
23:15	23:45	1/2	10	SURVEYS FOR ABOVE DRILLING
23:45	24:00	1/4	7	RIG SERVICE F/N TOP PUMP @ MAIN 650 KPa

NOTES: CROWN SAVER, BLEEDER LINE @ MANIFOLD.

BOILER Rod Dyck @

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9				7737

FOLD HERE →

118262

LICENCE NO.:	WELL NAME AND NO.:
501 99	CHEVRON ETAL LIARD K-24, 60° 30'N, 123° 30'W
OPERATOR:	CONTRACTOR:
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING LTD
SURFACE LOCATION:	UNIQUE ID.:
K-24 - 60° 30'N, 123° 30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 91 | MONTH 03 | DAY 24

RIG NO. 48

FUEL @ 8:00

RIG 174 | BOILER 32

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.83	64.37	VAMCO	MN80	71	944.52	7.31	2500
	244.5	220.50	69.14	VAM CDC	MN80	12	1535.74	7.31	2500

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	SUNNY
WIND DIRECTION	
ROAD	G 16 9 14

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
197	29	E	108	152	5½ XH	121	9P100	NATIONAL	235
197	31	X2	106	152	5 XH	133	9P100	NATIONAL	235
127	38	X3	101	156	5" XH	168			

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.		2¾			4¼		¼			¼																
DAY					13¾	9	1¼													1						
EVE.		3¼					¼			½																
TOTAL																										

TOTALS

	8
	12
	4

SHALE SHAKER(S)

NO.	TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP	110	TOP	110
MIDDLE	110	MIDDLE	110
BOTTOM	110	BOTTOM	110

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR/		6.25 m
1/1	STAB/FLEX	244	6.70 m
1/1	STAB/FLEX/STAB	244	9.37 m
1/1	NMS/XO		9.55 m
1/1	FLEX/XO		12.64 m
15	X3 DP		145.56 m
22/1	SHORT/SUB		158.41 6.58 m
25	HWDP		239.63 m
	BHA =		532.78 m
81	82 - DP		943.50 m
106	82 - DP		1005.87 m
1	X3 D.P.	STANDS	29.05 m
1	X3 D.P.	SINGLES	9.67 m
	KELLY DOWN		6.30 m
	TOTAL		2727.17 m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	96

BIT RECORD

BIT NO.	15	
SIZE (mm)	215.9	
IADC CODE	5 3 7 X	
MFG.	S.T.C.	
TYPE	F3	
SERIAL NO.	LR0031	
JETS (mm)	3 X 15.1	
DEPTH OUT (m)	2727	
DEPTH IN (m)	2575	
TOTAL METRES DRILLED (m)	152.	
TOTAL HOURS RUN	41	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
								3.7

HOLE CONDITION

HOLE DRAG	16 ↑ 4-11 ↓
TORQUE AT BOTTOM	7400 - 8300
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	02:00	04:00	06:00
DENSITY kg/m³	1110	1115	1120
FUNNEL VIS. - (S/L)	52	52	52
W.L. (cm³)	6.6	6.4	6.4
pH	10.2	10.3	10.2
PVT m³	132.8	132.4	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Polypac R	2 SXS
Lignite	2 SXS
Kelzan	2 SXS
Caustic	2 SXS
Cal. Carb	141 SXS.

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2718	2727	9	70	13
			60	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9500	152	20	152	

REDUCED PUMP SPEED

3600	@	60	@	

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2713.50	36.7	122.5

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:45	2¾	2	DRLG 2HOLE W/MOTOR FR: 2718 - 2727m.
02:45	03:00	¼	10	SURVEY FOR MOTOR DRLG.
03:00	07:45	4¾	5	C&C, BRING UP PUMP TO TRIP BRK. WT UP 113 DOWN 87
07:45	08:00	¼	7	RIG SERVICE FOR MOTOR @ FLOOR HAND

NOTES: ✓CROWN SAVER, BRAKES, LINKAGE, CLEAN / ADJUST
BOILER BLOWN DOWN @ 3:00 & 7:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		0.25 m
1/1	MOTOR/NMS		6.70 m
1/1	STAB/FLEX/FLEX	244	9.27 m
1/1	NMS/XO		9.55 m
1/1	FLEX/XO		12.64 m
15	X3 DP		145.56 m
22/1	HWDP/JAR		158.41 6.58 m
25	HWDP		239.63 m
	BHA		532.78 m
77	5 DP		743.50 m
106	X DP		1005.87 m
1	X3 D.P.	STANDS	29.05 m
1	X3 D.P.	SINGLES	9.67 m
	KELLY DOWN		6.30 m
	TOTAL		2727.17 m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	15	16
SIZE (mm)	215.9	215.9
IADC CODE	5 3 7 X	5 3 7
MFG.	S.T.C.	REED
TYPE	F3	HP53A
SERIAL NO.	LR0031	LQA101
JETS (mm)	3 X 15.9	3 X 15.9
DEPTH OUT (m)	2727	
DEPTH IN (m)	2575	2727
TOTAL METRES DRILLED (m)	152	
TOTAL HOURS RUN	41	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
5	6	BT	H	#2	IN	FC	TD	3.7

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	07:00	19:45	
DENSITY kg/m³	1130	1140	
FUNNEL VIS. - (S/L)	52	82	
W.L. (cm³)	6.5		
pH	10.2	10.0	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Cal. Carb	80 SXS.
TR. RECOV	
METERS	13.14
CALC.	12.50
DIFF	.24

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
8550	152		152	120

REDUCED PUMP SPEED

3100	@		@	60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	12:45	4¾	6	PULL UP CSG. W/ FLOAT, PUMP PULL P.O.O.H. FLOAT ✓
				5 STDS, 30 STDS, 60 STDS, HWDP, OUT OF HOLE
12:45	13:00	¼	20	LAY DOWN M.W.D.
13:00	13:15	¼	7	RIG FUNC. BLIND RAMS F/FLOOR 6 SEC'S
13:15	14:00	¾	20	MAKE UP BIT #16, PICK UP MWD + MOTOR
14:00	18:15	4¼	6	R.I.H. TO 165m TEST M.W.D., TEST @ 580m, 960m,
				1360m, 1770m, 2145m, 2480m R.I.H TO 2655m
18:15	19:00	¾	5	WASH F/2655m - BOTTOM (NO FILL)
19:00	20:00	1	5	CIRC. BOTTOMS UP
				* PRE-CHECKS PRIOR TO TESTING M.W.D.

NOTES: ✓BRAKES, LINKAGE, CROWN SAVER, CHAIN, AIR LINE
BOILER BLOWN DOWN @ 11:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		0.25 m
1	MOTOR		6.70 m
1/1	STAB/FLEX/FLEX	244	9.37 m
1/1	NMS/XO		9.55 m
1/1	FLEX/XO		12.64 m
15	X3-DP		145.56 m
12	HWDP		169.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		532.78 m
93	6 DP		745.50 m
106	20 DP		1005.87 m
2	X3 D.P.	STANDS	58.06 m
	D.P.	SINGLES	m
	KELLY DOWN		3.79 m
	TOTAL		2744 m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	96

BIT RECORD

BIT NO.	16	
SIZE (mm)	215.9	
IADC CODE	5 3 7	
MFG.	REED	
TYPE	HP53A	
SERIAL NO.	LQA101	
JETS (mm)	3 15.9	
DEPTH OUT (m)	—	
DEPTH IN (m)	2727	
TOTAL METRES DRILLED (m)	17	
TOTAL HOURS RUN	3¼	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	4-12 ↑ 4-10 ↓
TORQUE AT BOTTOM	7200 - 8400 ft lbs
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	21:00	24:00	
DENSITY kg/m³	1130	1130	
FUNNEL VIS. - (S/L)	55	52	
W.L. (cm³)	6.3	6.5	
pH	10.2	10.2	
PVT.	127.6	130.1	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAUSTIC	1

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2727	2744	17	70	13
			60	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9500	152		152	130

REDUCED PUMP SPEED

3200	@		@	60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2713.50	35.9	121.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:15	3¼	2	DRLG 2HOLE W/MOTOR FR: 2727 - 2744m.
23:15	23:45	½	10	SURVEY FOR MOTOR DRLG.
23:45	24:00	¼	9	RIG SERVICE, BLIND TOP RAM @ FLOOR

NOTES: ✓CROWN SAVER, BRAKES & LINKAGE, CHAIN & AIR LINE
POWER KELLY DOWN @ 22:30

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	225	114		7267

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118261

LICENCE NO.: SD 99 | WELL NAME AND NO.: CHEVRON ATAL LIARD K-29 60° 30' N 123° 30' W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30'N 123° 30 W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flanges & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 03 | DAY 23 | RIG NO. 48

FUEL @ 8:00

RIG 1.95 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS 1113 | WIND DIRECTION | ROAD 12309

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.88	64.37	~~Baotou~~	~~K-55~~				
	~~244.5~~	~~220.50~~		Vam/Tco	MN80	71	964.52	7.31	2500
	244.5	220.50	62.94	Vam/Tco	MN80	120	1535.74	7.31	2500

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5" XH	121	9-P100	National	355
127	29	X2	106	152	5" XH	133	9-P80	National	355
127	38	X3	101	156	5" XH	168			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 Wire Line	24	25	26
	MORN.		7¼					¼			½														
	DAY		9¾					¼			1½												½		
	EVE.		3½					1¼			1¼														
	TOTAL																								

TOTALS: 8 | 12. | 4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP		TOP	
MIDDLE	110	MIDDLE	110
BOTTOM	110	BOTTOM	110

RENTALS/SERVICES | MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Motor		.25 m
1/1	Motor Float Sub	6.70	9.70 m
1/1	Monel Flex	8¾	9.27 m
1/1	Pony / NMC	8¼	9.35 m
0/1	Mill / XO	19.27	1.01 m
15	5" DP		145.96 m
12	HWDP		109.41 m
1	Jar		6.58 m
25	HWDP		229.63 m
	BHA =		532.78 m
99	5" DP		943.50 m
40	#2 D.P.	STANDS	1148.70 m
2	#2 D.P.	SINGLES	19.96 m
	KELLY DOWN		6.70 m
	TOTAL		2650.70 m
WT. OF DC		1000 daN	
WT. OF STRING	95	1000 daN	

BIT RECORD

BIT NO.	15
SIZE (mm)	215.9
IADC CODE	5 3 7 X
MFG.	S.T.C.
TYPE	F3
SERIAL NO.	LR0031
JETS (mm)	3 X 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2575
TOTAL METRES DRILLED (m)	75
TOTAL HOURS RUN	25

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 6-11 ↑ 4-8 ↓

TORQUE AT BOTTOM 6200 ft lbs.

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	01:00	04:00	07:00
DENSITY kg/m³	1105	1100	1105
FUNNEL VIS. - (S/L)	50	49	49
W.L. (cm³)	6.5	6.8	6.9
pH	10.0	10.5	10.5
PVT	139.4	140.6	141.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2627	2650	D	30	3/11
			60	12/16

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
8100 / 9300	152	120	152	

REDUCED PUMP SPEED

34.00 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2617.50	25.3	129.0
2626.90	27.8	128.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:15	7¼	2	Drill 215mm Hole w/Motor FR: 2627 m - 2650 m
07:15	07:30	¼	7	Rig Service Fun Blow Pipes @ Main Gas Sep
07:30	08:00	½	10	Survey for Navi Drilling

NOTES: ✓ Crown Saver, Brakes Inspected, Clamp Anchor. Boiler Blow Down @ 3:00 & 7:00

BOILER HRS. RAN 8 | ph 9 | STACK TEMP. 225°C

MAXIMUM EXPERIENCED HOOKLOAD: 106

SAFETY TOPIC: Nine

M.A.C.P.: 8023

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.25 m
1/1	Motor/Float Sub	6.70	9.70 m
1/1	Monel Flex/Pony	8¾	9.27 m
1/1	Mill/XO	8¼	9.55 m
2/1	Flex/NMC	8¼	9.44 m
15	HWDP		145.56 m
12	HWDP		109.41 m
1	Jar		6.58 m
25	HWDP		229.63 m
	BHA =		532.78 m
99	5" DP		943.50 m
42	#2 D.P.	STANDS	1205.87 m
2	#3 D.P.	SINGLES	19.36 m
	KELLY DOWN		3.49 m
	TOTAL		2705 m
WT. OF DC		1000 daN	
WT. OF STRING	96	1000 daN	

BIT RECORD

BIT NO.	15
SIZE (mm)	215.9
IADC CODE	5 3 7 X
MFG.	S.T.C.
TYPE	F3
SERIAL NO.	LR0031
JETS (mm)	3 X 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2575
TOTAL METRES DRILLED (m)	130
TOTAL HOURS RUN	34¾

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8-12 ↑ 6-8 ↓

TORQUE AT BOTTOM 7000 - 7800

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	10:00	14:00	17:00
DENSITY kg/m³	1105	1105	1105
FUNNEL VIS. - (S/L)	58	47	48
W.L. (cm³)	6.0	7.0	7.0
pH	10.5	10.5	10.5
PVT	141.7	142.0	139.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2650	2705	D	30	13/14
			105	15/16

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10400	152	120	152	

REDUCED PUMP SPEED

3500 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2635.42	29.9	126.4
2646.0	31.9	123.9
2655.5	35.9	123.2
2665.1	36.0	120.1
2674.8	36.9	121.6
2684.5	37.1	121.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	15:00	7	2	Drill 215mm Hole f/2650m - 2705m
15:00	15:15	¼	7	R/S Fun. Rubber f/Mast 15 sec ✓
15:15	18:00	2¾	2	Drill 215mm Hole f/2705m - 2785m
18:00	18:30	½	22	Work Pipe
18:30	20:00	1½	10	Surveys for Navi

NOTES: ✓ Crown Saver, Clamp, Anchor. Grease Crown

Blow Down @ 11:00, 15:00, 19:00

BOILER HRS. RAN 12 | ph 9 | STACK TEMP. 225

MAXIMUM EXPERIENCED HOOKLOAD: 118 000

SAFETY TOPIC:

M.A.C.P.: 8023

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Motor		.25 m
1/1	Float Sub	6.70	9.70 m
1/1	Flex	8¾	9.27 m
1/1	Mills / XO	8¼	9.55 m
2/1	Mills / XO	8¼	9.44 m
15	HWDP		145.56 m
12	HWDP		109.41 m
1	Jar		6.58 m
25	HWDP		229.63 m
	BHA		532.78 m
99	5" DP		943.50 m
42	#2 D.P.	STANDS	1205.87 m
1	#3 D.P.	SINGLES	39.05 m
	KELLY DOWN		6.80 m
	TOTAL		2718 m
WT. OF DC		1000 daN	
WT. OF STRING	96	1000 daN	

BIT RECORD

BIT NO.	15
SIZE (mm)	215.9
IADC CODE	5 3 7 X
MFG.	S.T.C.
TYPE	F3
SERIAL NO.	LR0031
JETS (mm)	3 X 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2575
TOTAL METRES DRILLED (m)	143
TOTAL HOURS RUN	38¼

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8-14 ↑ 6-10 ↓

TORQUE AT BOTTOM 7000 - 8000 ft lbs.

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	20:00	22:00	
DENSITY kg/m³	1105	1110	
FUNNEL VIS. - (S/L)	47	50	
W.L. (cm³)	6.9	7.0	
pH	10.1	10.2	
PVT	132.4	131.3	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2705	2718	D	30	12/13
			60	16/17

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9400	152	120	152	

REDUCED PUMP SPEED

3500 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2694.20	37.4	121.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:30	3½	2	Drill 215mm Hole w/Motor, F.R: 2705 m - 2718
23:30	23:45	¼	7	Rig Service Fun T/C Pipes @ Main Gas Sep
23:45	24:00	¼	10	Survey for Navi Drilling

NOTES: ✓ Crown Saver, Brakes Inspected, Clamp Anchor. Boiler Blow Down @ 20:00

BOILER HRS. RAN 4 | ph 9 | STACK TEMP. 225

MAXIMUM EXPERIENCED HOOKLOAD:

SAFETY TOPIC:

M.A.C.P.:

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111090

LICENCE NO.: SDL 89 | WELL NAME AND NO.: CHEVRON ETAL HARO K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: ARITA DRILLING

SURFACE LOCATION: K-29 60° 30'N 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 03 | DAY 22 | RIG NO. 49

FUEL @ 8:00 RIG 110cm BOILER 55cm

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS 4c7 | WIND DIRECTION | ROAD J 61558

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.86	64.27	Van Leo	N80	71	964.52	7.31	2500
	244.5	220.50	69.94	Van Leo	N80	120	1535.74	7.31	2500

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E2	108	152	5"XH	121	9-P-100	NATIONAL	235
	127	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
	127	38	X3	101	136	5"XH	168			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		3				3¾	¼		¾	¼														
	DAY		7¼					¼			½														
	EVE.		7¼					¼			½														
	TOTAL																								

TOTALS

9	SHALE SHAKER(S) NO.	TYPE	
8	SCREENS CHANGED ☐ YES ☐ NO		
8	TOP 110	TOP 110	
8	MIDDLE 110	MIDDLE 110	
	BOTTOM 110	BOTTOM 110	

RENTALS/SERVICES — MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MOTOR		4.76 m
1	F.S. SHORT FLEX		3.86 m
1	FLEX H.O.S.		9.27 m
1	XO / FLEX		1.55 m
15	XO / X3-DP		455.61 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		532.78 m
99	E2-DP		943.50 m
			m
38	D.P.	STANDS	1091.25 m
1	D.P.	SINGLES	9.57 m
	KELLY DOWN		9.58 m
	TOTAL		2546.68 m
WT. OF DC			1000 daN
WT. OF STRING		95	1000 daN

BIT RECORD

BIT NO.	15
SIZE (mm)	215.9
IADC CODE	5 3 7 X
MFG.	S.T.C.
TYPE	F-3
SERIAL NO.	LR0031
JETS (mm)	3+15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2575
TOTAL METRES DRILLED (m)	11
TOTAL HOURS RUN	3¼

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	05:00	07:00
DENSITY kg/m³	1120	1120
FUNNEL VIS. - (S/L)	51	50
W.L. (cm³)		
pH	10.0	10.0
PVT.	125.3	125.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Poly Pac UL	4
CAUSTIC	4
K.C.	2

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1120	1055	1900

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2577	2586	9	R 20	12/13
			S 60	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
8500				
9000	152	80	152	

REDUCED PUMP SPEED

3800 @ 60 @ Surface

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2540.10	13.7	116.7

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	03:45	3¾	6
03:45	04:30	¾	9
04:30	04:45	¼	7
04:45	07:45	3	2
07:45	08:00	¼	10

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RUN IN W/BIT #15 / W/MOTOR & FLEX HWDP 410m.
SLIP & CUT 80m OF DRILLING LINE.
R/S CLOSE TOP PIPE RAMS @ FLOOR O/C 7 SEC
DRILL 216mm HOLE F/2577-2586 W/MOTOR.
SURVEY FOR ABOVE DRILLING.

NOTES: VCROWN SAVER / FLOTLINE CLAMP / ANCHOR / BRAKE LINKAGE.
Boiler Blow Down @ 0300, 0700

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225°C	110 000		7532

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		6.76 m
1	FLEX H.O.S.		3.86 m
1	XO / FLEX		10.23 m
1	XO / FLEX		19.63 m
15	XO / X3-DP		455.61 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		532.78 m
99	E2-DP		943.50 m
			m
39	X2 D.P.	STANDS	1119.98 m
1	X2 D.P.	SINGLES	9.57 m
	KELLY DOWN		3.17 m
	TOTAL		2609 m
WT. OF DC			1000 daN
WT. OF STRING		95	1000 daN

BIT RECORD

BIT NO.	15
SIZE (mm)	215.9
IADC CODE	5 3 7 X
MFG.	S.T.C.
TYPE	F-3
SERIAL NO.	LR0031
JETS (mm)	3 X 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2575
TOTAL METRES DRILLED (m)	34
TOTAL HOURS RUN	10½

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	4-12 ↓ 4-10
TORQUE AT BOTTOM	6500 - 7000 FT/LBS
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1100	1100	1110
FUNNEL VIS. - (S/L)	46	48	50
W.L. (cm³)			
pH	10	10	10.5
PVT m³	130.0	132.1	131.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Polypac R	2 SXS
Polypac UL	2 SXS
Lig.	2 SXS
Caustic	3 SXS
Cal. Carb	150 SXS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1110	1080	1910

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2586	2609	17	R 20	10/13
			S 60	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
8800				
9000	150	120	152	

REDUCED PUMP SPEED

3300 @ 60 @ 5

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2577.30	16.1	122.5
2588.80	18.2	126.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	15:15	7¼	2
15:15	15:30	¼	7
15:30	16:00	½	10

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRILL 216mm HOLE F/2586m - 2609m.
R/S SERVICE TOP ANNULAR @ FLOOR C/O HOSE
SURVEYS FOR ABOVE DRILLING.

NOTES: ✓CROWN SAVER, BRAKE LINKAGE, CLAMP, ANCHOR.
BOILER BLOW DOWN @ 10:00, 19:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225°C			7777

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MOTOR		6.76 m
1/1	SHORT FLEX		3.86 m
1/1	H.O.S. / XO		1.55 m
2/1	FLEX / XO		12.62 m
15	X/3 DP		1456 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		532.78 m
99	E2 DP		943.50 m
40	X2 D.P.	STANDS	1148.70 m
	D.P.	SINGLES	m
	KELLY DOWN		3.07 m
	TOTAL		2627 m
WT. OF DC			1000 daN
WT. OF STRING		95	1000 daN

BIT RECORD

BIT NO.	15
SIZE (mm)	215.9
IADC CODE	5 3 7 X
MFG.	S.T.C.
TYPE	F3
SERIAL NO.	LR0031
JETS (mm)	3 X 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2575
TOTAL METRES DRILLED (m)	52
TOTAL HOURS RUN	17¾

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	6-12 ↑ 4-10 ↓
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	16:00	20:00	24:00
DENSITY kg/m³	1115	1105	1110
FUNNEL VIS. - (S/L)	48	46	53
W.L. (cm³)		6	6.5
pH	10.5	10.5	11
PVT	132.2	134.2	136.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAUSTIC	2 SX
KELZAN	2 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2609	2627	18	SLIDE	15/16

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
8800				
9000	152	120	152	

REDUCED PUMP SPEED

3100 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2618.4	20.3	127.0
2603	22.6	128.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	22:15	6¼	2
22:15	22:30	¼	7
22:30	23:30	1	2
23:30	24:00	½	10

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRILL 216mm HOLE F/2609m - 2624m
R/S FLOATLOWER PIPE RAMS F/FLOOR 6 SEC 1/2
DRILL 216mm HOLE F/2624m - 2627m
SURVEYS FOR ABOVE DRILLING

NOTES: ✓BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR, GREASED BLOCKS
BOILER BLOW DOWN @ 19:00, 23:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.0	225		H2S	

FOLD HERE →

111089

LICENCE NO.:	WELL NAME AND NO.:
SDL 99	CHEVRON ETAL LIARD K-29 60° 30' N 123° 30' W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING
SURFACE LOCATION:	**UNIQUE ID.:**
~~K-60~~ K-29 60°30'N 123°20'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.D.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 97 | MONTH 03 | DAY 21

RIG NO. 48

FUEL @ 8:00

RIG 1.56m | BOP ER~~m~~ 33m

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)
	244.5	222.98	64.73	VAM PRO	MN80	71	964.52	7.31	2500
	244.5	230.50	69.94	VAM PRO	MN80	120	1535.74	7.31	2500

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	12840
WIND DIRECTION	
ROADS -	609011

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E-2	108	152	5" XH	121	9-P-100	NATIONAL	235
127	29	X-2	106	151	5" XH	133	9-P-100	NATIONAL	235
127	38	X-3	104	156	5" XH	168			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		4			3/4	2 1/2	1/4			1/4											1/4	B.O.P. DRILL			
	DAY		1 1/4			2 1/4	8 1/2	1/4													1					
	EVE.						3 1/4	1/4													1/2					
	TOTAL		1 1/4			2 1/4	14	1/2			1/4										1 1/2	1/4				

TOTALS

	1																								
	12																								
	7																								
	24																								

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP	TOP
110	110
MIDDLE	MIDDLE
110	110
BOTTOM	BOTTOM
110	110

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		9.25 m
1/1	STEERABLE	216	3.76/3.70 m
1/1	STAB	216	3.86/3.77 m
1/1	MWD		1.95/1.55 m
2/1	FLEX/XO		18.42/17.64 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		239.67 m
	BHA		387.22 m
99	C2-D.P.		9435.0 m
126	X2-D.P.		12058.7 m
1	X3 D.P.	STANDS	29.05 m
	D.P.	SINGLES	m
	KELLY DOWN		9.67 m
	TOTAL		25753.1 m
WT. OF DC			1000 daN
WT. OF STRING		94	1000 daN

BIT RECORD

BIT NO.	14
SIZE (mm)	215.9
IADC CODE	537
MFG.	SECURITY
TYPE	G586F
SERIAL NO.	731699
JETS (mm)	3+15.9
DEPTH OUT (m)	2575
DEPTH IN (m)	2500
TOTAL METRES DRILLED (m)	75
TOTAL HOURS RUN	16 3/4

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
								4.47

HOLE CONDITION

HOLE DRAG	10-14 ↑ 6-10 ↓
TORQUE AT BOTTOM	5000-11000
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	1120	1120	
FUNNEL VIS. - (S/L)	64	71	
W.L. (cm³)			
pH	10	10	
PVT	143.2	144.4	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAL CARB	56 SX
LIGNITE	30 SX
CAUSTIC	4 SX
POLYPAC R	3 SX
POLYPAC UL	7 SX
DESCO	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2565	2575	10	R 20 S 60	10/12 13/30

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11000	152		152	120

REDUCED PUMP SPEED

3300 @ @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2558.31	13.5	115.9

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	04:00	4	2	DRLG 216mm HOLE w/MOTOR FR: 2565-2575
04:00	04:15	1/4	10	SURVEY
04:15	05:00	3/4	5	CIRCULATE BOTTOMS UP & SAMPLE.
05:00	05:15	1/4	7	RIG SERVICE CLOSE TOP PIPE RAMS @ MAN.
05:15	07:45	2 1/2	6	FLOW / PUMP PIL / HOIST 5 STDS = 14 / FLOW CK 5 STDS / 35 STDS
7:45	08:00	1/4	22	HOLD B.O.P. DRILL - CREW.

NOTES

✓ Pason ✓ Sampler ✓ Breathe Liquable ✓ First Line Chem ✓ Arch. R. Boiler Blow Down @ 0300 hrs

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	8	9	225°C	132,000		7533

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		9.25 m
1/1	STEERABLE / FLEX		3.86/3.77 m
1/1	MWD / STAB		1.95/1.55 m
2/1	FLEX / XO		18.42/17.64 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		239.67 m
	BHA		387.22 m
99	F DP		9435.0 m
126	F DP		12058.7 m
38	D.P.	STANDS	1091.25 m
1	D.P.	SINGLES	m
	KELLY DOWN		9.57 m
	TOTAL		25772.11 m
WT. OF DC			1000 daN
WT. OF STRING		92	1000 daN

BIT RECORD

BIT NO.	14	15
SIZE (mm)	215.9	215.9
IADC CODE	537	537X
MFG.	SECURITY	SMITH
TYPE	G586F	LR0031
SERIAL NO.	731699	F3
JETS (mm)	3+15.9	3+15.9
DEPTH OUT (m)	2575	
DEPTH IN (m)	2500	2575
TOTAL METRES DRILLED (m)	75	2
TOTAL HOURS RUN	16 3/4	1/4

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
2	2	BT	A	E	I	N	TQ	4.4

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	T	R	17:00
DENSITY kg/m³		I	1120
FUNNEL VIS. - (S/L)		P	63
W.L. (cm³)			
pH			10.0
PVT m³			125.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	2 SXS
Cal. Carb.	56 SXS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2575	2577	2	30	14

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11000	152		152	120

REDUCED PUMP SPEED

3300 @ @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
Hole Fill	Calc. 12.24 m³	
	Mud. 12.82 m³	
	Dif. -.58 m³	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:00	2	6	PULL OUT OF HOLE. FLOW 45 m.
10:00	11:00	1	20	HANDLE DRLGS & CHANGE BIT. FLOW ON HOLE
11:00	15:45	4 3/4	6	RUN IN HOLE ~~FILLING~~ @ PICK UP 15 x DC TEST MWD @ 180m, 720m, 1250, 1750, 2500m
15:45	17:45	1 1/2	5	WASH TO BTM. FR: 2500 - 2575. + CIRC OUT TRIP GAS OVER SHAKER.
17:45	17:30	1/4	2	DRLG 216mm HOLE FR: 2575m - 2577m.
17:30	18:15	3/4	5	PUMP 1m³ WATER; ATTEMPT TO FLUSH MWD MWD FAILED TRY TO GET MWD TO WORK AGAIN FAILED
18:15	19:45	1 1/2	6	PULL STANDS TO 1750 MWD, PUMP PILL & PULL OUT
19:45	20:00	1/4	7	RIG SERVICE TOP RAM PIPES @ MAN.

NOTES

✓ Crown Saver ✓ Breathe Liquable ✓ First Line Chem ✓ Arch. R.

Pason ✓ Boiler Blown Down @ 0300 hrs

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	12	9	225°C			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		0.76 m
1/1	F3 MOTOR FLEX		3.76/3.70 m
1/1	MWD / STAB		1.27/1.95 m
1/1	FLEX / XO		1.55/1.64 m
15	XO X2 D.P.		14.64/13.55 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		239.67 m
	BHA		532.79 m
99	C2-D.P.		9435.0 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	15
SIZE (mm)	215.9
IADC CODE	537X
MFG.	STC
TYPE	XR0031
SERIAL NO.	F3
JETS (mm)	3+15.9
DEPTH OUT (m)	
DEPTH IN (m)	2575
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2577				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

3300 @ @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:45	2 3/4	6	HOIST TO CHECK MWD / FLOW @ 3550 hrs. / FLOW ✓ POOH + OUT OF HOLE.
22:45	23:15	1/2	20	CHANGE OUT MWD.
23:15	23:45	1/2	6	RUN IN W/B TO 15 CHECK MWD EVERY 1000 METERS.
23:45	24:00	1/4	7	R/S CHECK ANNULAR @ 8 min O/C 14 sec.

NOTES

✓ Crown Saver ✓ Breathe Liquable ✓ First Line Chem ✓ Arch. R.

Boiler Blown Down @ 2300

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4	9	225°C			7532

FOLD HERE →

111088

LICENCE NO.: SDL 99 | WELL NAME AND NO.: CHEVRON ETAL LIARD K-29 60°30'N 123°30'W

OPERATOR: (CHEVRON) CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30'N 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 05 | DAY 20

RIG NO. 48

FUEL @ 8:00

RIG 191 m | BOILER 325 m

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS -6.5 C 517; WIND DIRECTION; ROAD -6.0 C 508

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.8	64.73	VAM PRO	HN80	71	964.52	7.31	2500
	244.5	220.5	69.94	VAM PRO	HN80	124	1535.74	7.31	2500

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E2	108	152	5" XH	121	9-P-100	NATIONAL	235
	127	29	X2	106	154	5" XH	133	9-P-100	NATIONAL	235
	127	38	X3	101	156	5" XH	168			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 Survey	24	25	26
	MORN.						5	1/4													2½		1/4				
	DAY		9¾				13½	1¼			1½											1¼				
	EVE.		3¼					¾			½															
	TOTAL		13				6¾	3¼			1										2½	1½	1¼				

TOTALS: 8 | 12 | 4 | 24

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP	TOP
110	110
MIDDLE	MIDDLE
110	110
BOTTOM	BOTTOM
110	110

RENTALS/SERVICES | MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.25 m
1	P.D./Sub		7.46 m
1	FLEX/Hole		9.27 m
1	XO		.55 m
2	Flex Stab		18.62 m
1	XO		.64 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
			387.22 m

D.P. | STANDS | m

D.P. | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	14
SIZE (mm)	215.9
IADC CODE	537
MFG.	SECURITY
TYPE	G586F
SERIAL NO.	731699
JETS (mm)	3-15.9
DEPTH OUT (m)	
DEPTH IN (m)	2500
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | To | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
GEL	11 SX
CAL CARB	56 SX
DEFOAM	1 PAIL

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RM R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1503				

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
TRIP		
MUD - 11.80 g/cm³		
CALC. - 11.70 g/cm³		
DIFF. .10 g/cm³		

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	03:00	3	6
03:00	03:15	¼	7
03:15	05:45	2½	20
05:45	06:00	¼	6
06:00	06:15	¼	22
06:15	06:30	13/4	6

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

HOIST TO PICK UP DIR. TOOLS / FUNCV @ HOSTA / @ HWDP + DLM OF HWDP. (LAY DOWN DC.)
R/S CHECK BRAKE RIMS & ADJ. FLOOR + MOUSE
MAKE UP DIR. TOOLS.
RUN IN.
SHALLOW TEST MWD
RUN IN / TEST MWD 750 gpm / 1250 gpm.

NOTES: CROWN SAVER / BRAKE LINKAGE / EAST LINE CLEAR / ANNUAL
Boiler Blown Down @ 0500, 0700

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	200°C			

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.25 m
1	Motor/Flex Stab		6.76 m
1	Short Flex		3.86 m
1	NM / XO		.74 m
3	Flex XO		18.62 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA =		387.22 m
99	E2-DP		943.56 m
126	X2-DP		1205.87 m

D.P. | STANDS | 3905 m

D.P. | SINGLES | 9.68 m

KELLY DOWN | m

TOTAL | 4.73 m

WT. OF DC | 2551.00 | 1000 daN

WT. OF STRING | 92 | 1000 daN

BIT RECORD

BIT NO.	14
SIZE (mm)	215.9
IADC CODE	537
MFG.	SEC.
TYPE	G586F
SERIAL NO.	731699
JETS (mm)	3-15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2500
TOTAL METRES DRILLED (m)	51
TOTAL HOURS RUN	9¾

CUTTING STRUCTURE: T1 | To | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 6-10↑ 2-4↓ | TORQUE AT BOTTOM 6200 | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	11:00	16:00	19:00
DENSITY kg/m³	1070	1085	1090
FUNNEL VIS. - (S/L)	58	65	58
W.L. (cm³)	29	17	17
pH	9.9	9.9	10.1
PVT	105.4	110.7	116.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Cal. Carb.	565 SKS
Lignite	6 SKS
Desco	10 SKS
Gel	10 SKS
Poly pac	4 SKS
Kelzan	2 SKS
Caust. C	7 SKS

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RM R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2503	2551	48	35	13/15
			60	14/15

CIRCULATION PRESSURE (kPa) 9500 | PUMP NO. 1 LINER SIZE (mm) 152 | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) 152 | PUMP NO. 2 S.P.M. 120

REDUCED PUMP SPEED

3500 @ | @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2519.60	5.7	91.9
2537.30	7.2	103.3

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	09:45	1¾	6
09:45	16:00	6¼	2
16:00	16:15	¼	7
16:15	16:30	¼	21
16:30	19:30	3	2
19:30	20:00	½	10

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RUN IN HOLE. TEST MWD @ 1750, 2500 gpm.
DRLG 216mm HOLE W/MOTOR. F/C 2503m - 2535m.
RIG SERVICE. FUNCTION ANNULAR @ FLOOR. HOLE FULL.
SAFETY MEETING W/ STANDARD SAFETY.
DRLG 216mm HOLE W/MOTOR. F/C 2535m - 2551m.
SURVEYS FOR ABOVE DRILLING.

NOTES: CROWN SAVER / BRAKE LINKAGE / CLEAR / ANNUAL
Boiler Blown Down At 10:00, 16:00

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225			3768

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.25 m
1	Motor/Flex Stab		6.76 m
1	Short Flex		3.86 m
1	NM / XO		.74 m
3	Flex XO		18.62 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		357.22 m
99	E2-DP		943.56 m
126	X2-DP		1205.87 m

D.P. | STANDS | 3905 m

D.P. | SINGLES | m

KELLY DOWN | m

TOTAL | 2565.64 m

WT. OF DC | 1000 daN

WT. OF STRING | 92 | 1000 daN

BIT RECORD

BIT NO.	14
SIZE (mm)	215.9
IADC CODE	537
MFG.	SECURITY
TYPE	G586F
SERIAL NO.	731699
JETS (mm)	3-15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2500
TOTAL METRES DRILLED (m)	65
TOTAL HOURS RUN	12¾

CUTTING STRUCTURE: T1 | To | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10-24↑ 6-10↓ | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	20:00	22:00	24:00
DENSITY kg/m³	1120	1130	1130
FUNNEL VIS. - (S/L)	53	74	66
W.L. (cm³)	NOT HIGH TEMP.	9.5	8.7 (15)
pH	10.7	10.5	10
PVT	137.5	134.2	132.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RM R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2551	2565	14	R 20	12
				15
			S 60	16

CIRCULATION PRESSURE (kPa) 10900 | PUMP NO. 1 LINER SIZE (mm) 152 | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) 152 | PUMP NO. 2 S.P.M. 120

REDUCED PUMP SPEED

3600 @ | @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2538.95	9.4	107.9
2548.64	11	112.5

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	23:15	3¼	2
23:15	23:30	¼	7
23:30	24:00	½	10

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRLG 216mm HOLE W/MOTOR. F/C 2551-2565
R/S CLOSE BLIND RAMS & FLOOR VALVE
SURVEYS FOR ABOVE DRILLING.

NOTES: CROWN SAVER / BRAKE LINKAGE / EAST LINE CLEAR / ANNUAL
Boiler Blown Down @ 2200

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	190°	130,000	H2S SAFETY	7532

EVENING TOUR

FOLD HERE →

111087

LICENCE NO.:	WELL NAME AND NO.:
SDL 99	CHEVRON ETAL LIARD K-29 60° 30'N 123° 30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING.
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60° 30'N 123° 30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	03	19

RIG NO. 48

FUEL @ 8:00

RIG 124 m³ BOILER 32 m³

WEATHER	
TEMPERATURE °C	
CURRENT CONDITIONS	2023
WIND DIRECTION	
ROAD	S 598014

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	244.5	222.88	64.73	VAM PRO	NV80	71	964.52	7.31	2500
	244.5	220.50	69.94	VAM PRO	NV 80	120	1535.74	7.31	2500

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E2	108	152	5"XH	121	9-P-100	NATIONAL	235
	127	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
	127	38	X3	101	156	5"XH	168			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26	TOTALS
OPER.																						DOWN	BOP TEST	FLOW CHECK	LEAK OFF	
MORN.																										
DAY		1/4			9 1/2		1/4															13/4	1/4			12.
EVE.																										
TOTAL																										

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☑ YES ☐ NO

TOP	TOP
110	110
MIDDLE	MIDDLE
110	110
BOTTOM	BOTTOM
110	110

RENTALS/SERVICES — MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.25 m
1	B.T SUB		.74 m
1	D.C.	171	9.55 m
1	XO		1.09 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		357.25 m
99	E2-DP		943.50 m
			m
40 x2	D.P.	STANDS	1148.70 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	14
SIZE (mm)	215.9
IADC CODE	537
MFG.	SECURITY
TYPE	GS86F
SERIAL NO.	731699
JETS (mm)	3-15.9
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
DIESEL	5m³
H20 BBL	32m³ START
	27m³ FIN

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
D.P. STRAP		
BOARD	2092.20	
STRAP	2092.53	
DIFF	.33	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	04:00	4	15	FINISH PRESS TESTING STACK TEST INSIDE B.O.P. + DRILL TEST MANIFOLD TO 1500 PSI HI 3450 KPA HIGH (RUN 3 BHA)
04:00	07:00	3	6	RUN IN TO DRILL OUT (STRAP IN) TO 2449
07:00	07:15	1/4	7	RU SCHLUMBERGER CLOSE ANNULAR & FLUID A/C 1750 PSI.
07:15	08:00	3/4	5	DISPLACE HOLE W/ WATER.

NOTES: VC CROWN SAVER ✓ BRAKE LINKAGES ✓ FASTLINE CLAMP ✓ ANNUL. Bates Flow Dwn @ 0300, 0700

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	8	9	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.25 m
1	Bit Sub		.74 m
1	DC	171	9.55 m
1	XO		1.09 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		357.25 m
99	E-DP		943.50 m
126	X2 DP		1205.87 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
SINGLE UP	KELLY DOWN		- 3.62 m
	TOTAL		2503 m
WT. OF DC			1000 daN
WT. OF STRING		92	1000 daN

BIT RECORD

BIT NO.	14
SIZE (mm)	215.9
IADC CODE	537
MFG.	SEC.
TYPE	GS86F
SERIAL NO.	731699
JETS (mm)	3x19.5
DEPTH OUT (m)	2503
DEPTH IN (m)	2100
TOTAL METRES DRILLED (m)	3
TOTAL HOURS RUN	1/4

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG —

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	14:00	16:00	19:00
DENSITY kg/m³	1010	1010	1050
FUNNEL VIS. - (S/L)	31	51	59
W.L. (cm³)		12	
pH	10.4	10	10
	9.8	96.5	96.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
MIGEL	80 5x's
SODIUM BICARB	45 5x's
DIESEL FUEL TANK = 9.0 m³	
CALCARB	224 5x's
KELZAN	3 5x's

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9800	152	80	152	80

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:45	1 3/4	5	DISPLACE HOLE W/WATER
09:45	11:00	1 1/4	22	DRILL OUT CEMENT, FLOAT & SHOE. 2m OF FORMATION ON TOP OF RUN.
11:00	11:15	1/4	2	DRILL 215mm HOLE 2503 - 2553.
11:15	19:45	8 1/2	5	CIRC. PRIOR TO ~~FIT~~, ~~TOH~~ MUD UP
19:30	19:45	1/4	7	RIG SERVICE FOR HYDRIL 1650 - 1/4
19:45	20:00	1/4	23	BIT DRILL

NOTES: VCROWN SAVER, BRAKES & LINKAGE, CLAMP, ANNUL. BOILER BLOWDOWN @ 11:00 & 19:00

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	12	11.5	225°C			10500

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.25 m
1	B.T SUB		.74 m
1	D.C.	171	9.55 m
1	XO		1.09 m
12	HWDP		109.41 m
1	JAR		6.58 m
25	HWDP		229.63 m
	BHA		357.25 m
99	E2-DP		943.50 m
126	X2-DP		1205.87 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
SINGLE UP	KELLY DOWN		- 3.62 m
	TOTAL		2503 m
WT. OF DC			1000 daN
WT. OF STRING		92	1000 daN

BIT RECORD

BIT NO.	14
SIZE (mm)	215.9
IADC CODE	537
MFG.	SECURITY
TYPE	GS86F
SERIAL NO.	731699
JETS (mm)	3 15.9
DEPTH OUT (m)	2503
DEPTH IN (m)	2500
TOTAL METRES DRILLED (m)	3
TOTAL HOURS RUN	1/4

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME		22:00	
DENSITY kg/m³		1070	
FUNNEL VIS. - (S/L)		47	
W.L. (cm³)			
pH			
Pm		1061	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CALCARB	255 5x
GEL	15 5x

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2503				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10420	152	80	152	80

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:00	2	5	CIRC HOLE + MIX MUD.
22:00	22:15	1/4	24	FLOW CHECK
22:15	23:00	3/4	25	LEAK OFF TEST. FORMATION INTEGRITY TEST TO 11.5 MW EQUIV. EMW = 1427
23:00	23:15	1/4	7	R/S CLOSE TOP PIPE RAMS + TEST
23:15	24:00	3/4	6	FLOW ✓ / PUMP DP / HOIST TO PICK UP DIR. TOOLS / RUN IN 55 STDS.

NOTES: VCROWN SAVER ✓ BRAKE LINKAGE ✓ FASTLINE CLAMP ✓ ANNUL.

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4					

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111086

LICENCE NO.:	WELL NAME AND NO.:
SD4-99	CHEVRON ETAL LIARD K-29 60° 30' N 123° 30' W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES, LTD	ARITA DRILLING.
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60° 30' N 123° 30' W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	03	19

RIG NO. 48

FUEL @ 8:00

RIG 1+2 BOILER

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	0
WIND DIRECTION	
ROAD	595991

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	K12	BUTRESS	K55	56	693.60	7.31	701.30

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E2	108	152	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	168			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
MORN.							1/4							2								TUBING HANGER 4 1/2	DUMMY 1 1/4			
DAY															9								4			
EVE.							1/4								3 3/4											
TOTAL																										

TOTALS	
	8
	12
	4
	24

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☑ YES ☐ NO

TOP	TOP
MIDDLE 110	MIDDLE 110
BOTTOM 110	BOTTOM 110

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	04:30	4 1/2	22
04:30	06:30	2	14
06:30	06:45	1/4	7
06:45	08:00	1 3/4	23

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

PREP CSG, INSTALL TUBING HANGER & D.S.A. & PRESS TEST TUBING HANGER.

NIPPLE UP B.O.P.

R/S

R.C. UP FLOOR.

Fuel transfer to Rig Start Dip 80cm 135m³ total. Finish Dip 149cm

NOTES

Boiler Blown Down @ 07:30, 07:00

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	215°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
05:00			23
	12:00	4	23
12:00	20:00	8	15

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

STEAM HOSE, COLLAPSE SAVE CLEAN TANKS

WAITING ON PRESS. TESTER.

RIG IN PRESS TESTER, PRESS. TEST CASG. LINES 1500 KPA, 21000 KPA HIGH, 15 MIN EACH.

BOP PIPES, TOP PIPES, HCR VALVE, KILL STACK VALVES 1500 KPA LOW, 34500 KPA HIGH, 15 MIN EACH, ANNULAR 1500 KPA LOW, 17500 KPA HIGH 15 MIN.

NOTES

CROWN SAVER - BRAKE LINKAGE - FACTLINE - ANCHOR

BOILER BLOWN DOWN @ 11:00 & 19:00 & 15:00

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
17	9.5	225°C			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1			.25
1	BIT SUB		.74
1	D.C.	171	9.55
1	XO		1.09
12	HWDP		109.41
1	JAR		6.58
25	HWDP		229.63
	BHA		357.25
99	F2-D.P		943.50
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	14		
SIZE (mm)	215.9		
IADC CODE	537		
MFG.	SECURITY		
TYPE	FS86F		
SERIAL NO.	731699		
JETS (mm)	3-15.9		
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	23:45	3 3/4	15
23:45	24:00		

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

ACCUM FUNC TEST / PRESS TEST STABBING VALVE UPPER & LOWER KELLY COCK / BLIND RAMS PRESS TEST SURFACE LINE TO 1500 KPA LOW / 34500 KPA HIGH.

R.C. SERVICE

NOTES

BRAKE LINKAGE - FACTLINE - PUMP 2 / CROWN SAVER.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

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111085

LICENCE NO.: SDL 89

WELL NAME AND NO.: CHEVRON ET AL LIARD K-29 60° 30' N 123° 30' W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30' N 123° 30' W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 MONTH 03 DAY 17

RIG NO. 48

FUEL @ 8:00

RIG 1.02m BOILER 35cm

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.34	107.2	BJ-RACS	H-40	56	693.60	7.31	701.30
	244.5	222.3	69.8	VAM PRO	MN-80	71	964.52	9.21	250
	244.5	222.30	69.84	VAM PRO	MN-80	120	1575.74	7.31	2000

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	0
WIND DIRECTION	
ROAD	395991

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E2	108	158	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	168			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.							1/4					7 3/4												
	DAY					5 1/2		1/4	1	1/2			5								1/4				
	EVE.												1/2		1 1/2							1			
	TOTAL																								

TOTALS

	8
	12
	4
	24

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP 84 TOP 84

MIDDLE 84 MIDDLE 84

BOTTOM 84 BOTTOM 84

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2500				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

1400 @ @ 1/3

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:45	7 3/4	12	Run Csg/Fill Csg every 20 STS.
07:45	08:00	1/4	7	Rig Service.
				Circ. Under 2500m Cement Job
				30 sks Lead 1100 sks
				Tail 0.82 m 3777 m
				Collar 0.99 m 7 3/8 x 236
				6735.75 m 936.75 m
				1200 m 240.5 mm 69.2 kg/m 5835.74 m
				2501.17 m
				Displ w/ 95.2 m³ KCl Mud
				6.5 m³ at end of Job. CIP 20:22

NOTES: ✓ Crown Saver ✓ Service Lubricate ✓ Function Check ✓ Housekeeping
Boilers Blown Down @ 0300, 0700

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225°C			186

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	14:00
DENSITY kg/m³	1285
FUNNEL VIS. - (S/L)	70
W.L. (cm³)	
pH	
PVT	775

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
GEL	80
CAUSTIC	2
SODA ASH	1

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
4000	152	70	152	70

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
05:00	09:15	1 1/4	12	Run Csg.
09:15	09:30	1/4	7	Rig Service
09:30	10:00	1/2	5	Rig To + Circ Csg.
10:00	11:00	1	18	Slip + Cut 65m
11:00	12:00	1	12	Rig Out Circ. Head + Run Csg.
12:00	17:00	5	5	Rig To Circ Csg. Prior To Cementing
17:00	17:15	1/4	21	Safety Meeting Prior To Cementing.
17:15	20:00	2 1/4	12	Cement Csg.

NOTES: ✓ Crown Saver, Boots Subsidence, Check Annulus
Boilers Blown Down @ 10:00, 17:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225	174		186

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:30	1/2	12	Cement Csg (Continue w/ Rig Pumps)
20:30	21:30	1	12	Tear out Cementers
21:30	23:00	1 1/2	14	Trip out BOP to set slips.
23:00	24:00	1	22	Set slips w/ 160 000 + Cut Csg.

NOTES: ✓ Crown Saver ✓ Service Lubricate ✓ Function Check ✓ Housekeeping
Boilers Blown Down @ 2300

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	225°C			

FOLD HERE →

111084

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ETAL HARO K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30' N 123° 30' W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 97 | MONTH 03 | DAY 16

RIG NO. 48

FUEL @ 8:00

RIG 124 | BOILER 33

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	101.2	BUTRESS	K-55	56	693.60	7.31	701.30

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	16321
WIND DIRECTION	
ROAD	593674

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E2	108	152	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5½"	168			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.					2¼	5¼	¼														¼	WASH TO BTM			
	DAY					4¾	11½			1			½									¼				
	EVE.						¼						1¾									¼		1½	¼	
	TOTAL																									

TOTALS

8	
12	

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP 84	TOP 84
MIDDLE 84	MIDDLE 84
BOTTOM 84	BOTTOM 84

RENTALS/SERVICES | MORN. | DAY | EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.31 m
1	BIT SUB		.90 m
5	D.C.	228	45.95 m
1	JAR		7.08 m
3	D.C.	228	27.81 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		192.59 m
			m
99	E-Z D.P.		943.56 m
128	X2 D.P.		1225.03 m
4	X2 D.P.	STANDS	116.07 m
2	X3 D.P.	SINGLES	19.34 m
Single	KELLY DOWN		3.47 m
	TOTAL		2500 m
WT. OF DC			1000 daN
WT. OF STRING		91	1000 daN

BIT RECORD

BIT NO.	#4 RR 2
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	479YK
JETS (mm)	3-22-1
DEPTH OUT (m)	2500
DEPTH IN (m)	2500
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	3:00
DENSITY kg/m³	1290
FUNNEL VIS. - (S/L)	75
W.L. (cm³)	
pH	
P.V.T	103.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE BULK	4250 LBS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2500				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9400	152	90	152	89

REDUCED PUMP SPEED

1400 @ 3.0 MPa @ 43

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
BOARD -	2500.00	
STRAP -	2500.12	
DIFF	.12	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	2:15	2¼	6	RUNNING FOR CROWN OUT (STRAP IN)
2:15	2:30	¼	22	WASH TO BOTTOM (NO FILL)
2:30	04:45	2¼	5	CIRCULATE TO CONDITION HOLE.
04:45	05:00	¼	7	R/S CLOSE ANNULAR for FLOW C/C 16 SECONDS.
05:00	08:00	3	6	FLOW / PUMP P.U. / HOIST TO RUN Csg. / FLOW @ 5 STKS. / @ 35 STKS.
				- LAY DOWN 2X2 - D.P.

NOTES: √ CROWN SAVER √ BRAKE LINKAGE √ FAST LINE CLAMPS ARCHER. Boiler Blow Down @ 07:30, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	210°C	110,000		186

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1¼	6	PULL OUT OF HOLE F/ 2500m. 24 STDS.
09:15	10:00	¾	9	SLIP & CUT 40m DRLG LINE
10:00	13:00	3	6	PULL OUT & LAY DOWN HWDP, 9 DC'S
13:00	13:15	¼	7	R/S SECURE FLN. BLINDS & TEST PIPE RAMS
13:15	17:30	4¼	21	SAFETY MEETING PRIOR TO RIG UP TO RUN CSG.
17:30	20:00	2½	6	RIG TO RUN CSG.

NOTES: √ CROWN SAVER, BRAKE LINKAGE, CLAMPS ARCHER. Boiler Blow Down @ 14:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	¼	21	HOLD SAFETY MEETING PRIOR TO RUN Csg.
20:15	21:15	1	12	RUN Csg
21:15	22:45	1½	23	BLOW DOWN & FILL UP TOOL / TEST FLOAT
22:45	23:30	¾	12	CHANGE TO 300 TON Eqpt.
23:30	23:45	¼	24	CLEAN UP LOCATION FOR RIG MOVE.
23:45	24:00	¼	7	R/S OPEN ANNULAR CLOSE 35 SECONDS.

NOTES: √ CROWN SAVER / BRAKE LINKAGE / FAST LINE CLAMPS

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					186

FOLD HERE →

LICENCE NO.:	WELL NAME AND NO.:
SOL 99[illegible]	CHEVRON ET AL LIARD K-27-60°30'N 123°30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CAN. RES.	AKITA DRILLING LTD
SURFACE LOCATION:	**UNIQUE ID.:**
K-27 60°30'N 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	05	15

RIG NO. 49

FUEL @ 8:00

RIG	BOILER
136cm	66cm 33cm

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	14004
WIND DIRECTION	
ROAD	591357

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.34	102	BUTTRESS	K-55	56	603.40	7.31	710.30

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	102	152	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	154	5"XH	133	7-P-100	NATIONAL	235
127	32	X3	101	156	5"XH	162	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26	TOTALS
	MORN.							1				8															8
	DAY											8															8
	EVE.					1¼	2¾	¼				4¾															8
	TOTAL																										24

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP		TOP	
MIDDLE	84	MIDDLE	84
BOTTOM	84	BOTTOM	84

RENTALS/SERVICES

	MORN.	DAY	EVE.
SECOND BOILER Rented MAR 14/99 24:00 HRS	8	8	8
#3 PUMP	8	8	8
#2 BOILER FUEL 152cm			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	11	LOG W/ SCHLUMBERGER

NOTES: J BEAVES, LINKAGE CROWN SAVER, CLAMP, ANCHOR
BOILER BLOW DOWN @ 03:00, 07:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2500				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

2300 @ SLOW @ 41

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Mark Lowe

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	16:00	8	11	LOG W/ SCHLUMBERGER RUN #2 UBI

NOTES
✓ CROWN SAVER ✓ ANCHOR ✓ FLOAT LINE CHAIN ✓ ANCHOR.
Boiler Blown Down @ 1100, 1500

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225C			255

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.31 m
1	BIT SUB		.90 m
5	DC	203	45.95 m
1	JAR		7.08 m
3	DC	203	27.81 m
1	BIT SUB		.83 m
12	HWDP		109.76 m
	BHA =		192.59 m
73	E-2 DP		943.90 m
128	X-2 DP		1205.03 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR1 or RR2
SIZE (mm)	311
IADC CODE	
MFG.	Hughes
TYPE	GT-1
SERIAL NO.	177176
JETS (mm)	3 12 12
DEPTH OUT (m)	2500
DEPTH IN (m)	2500
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	20:45	4¾	11	LOG W/ SCHLUMBERGER RUN #2 UBI, RUN CSNG.
20:45	21:00	¼	7	RIG SERVICE FOR BLOWDOWN @ FLOAT HAND CSNG 0/2
21:00	22:15	1¼	6	MAKE UP BIT & RUN IN HOLE TO 2300
22:15	23:00	¾	5	DRILL CIRC.
23:00	24:00	1	6	RUN IN HOLE TO 2500

NOTES
✓ CROWN SAVER, BRAKE LINKAGE, CHAIN, ANCHOR
Boiler Blow Down @ 1700, 2900

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.0	225			255

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111082

LICENCE NO.: SDL | WELL NAME AND NO.: CHEVRON ET AL LINDO K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CDN. RES. | CONTRACTOR: ARDA DRILLING LTD

SURFACE LOCATION: K-29 60°30'N 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HFS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR: 11 | MONTH: 03 | DAY: 14 | RIG NO.: 48&6

FUEL @ 8:00

RIG: 158cm | BOILER: 33cm

WEATHER: TEMPERATURE °C: CURRENT CONDITIONS 11687 | WIND DIRECTION 581040 | ROAD: 33cm

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	101.2	EXPRESS	K55	56	697.40	7.31	701.30

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	121	7-P-80	NATIONAL	235
127	29	X5	108	154	5"XH	133	7-P-100	NATIONAL	235
127	38	X5	101	156	5"XH	166	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		4¼					¼			½														
	DAY						4	¼				6½									1½				
	EVE.																								
	TOTAL																								

TOTALS 12

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP		TOP	
MIDDLE		MIDDLE	
BOTTOM		BOTTOM	

RENTALS/SERVICES

	MORN	DAY	EVE
SECO 6 BOILER	8	12	4
#3 PUMP	8	12	4
#2 BOILER FUEL 170cm			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MORE/F.S.	1046	1046/.41 m
1/1	MORE/HOS	943	943/1.56 m
1	MOTOR		9.34 m
5	DC		45.95 m
1	SUB		7.08 m
3	DC		27.81 m
1/12	XO/HWDP		103/103.71 m
	BHA		221.76 m
99	E.D.P.		943.50 m
128	X2 D.P.		1225.03 m
3	D.P.	STANDS	87.07 m
2	D.P.	SINGLES	19.33 m
	KELLY DOWN		3.31 m
	TOTAL		2500 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	13
SIZE (mm)	311
IADC CODE	5 3 7 X
MFG.	S.T.C.
TYPE	F3P
SERIAL NO.	LN5346
JETS (mm)	3 x 22.2
DEPTH OUT (m)	2500
DEPTH IN (m)	2389
TOTAL METRES DRILLED (m)	111
TOTAL HOURS RUN	56½

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
							TD	1.9

HOLE CONDITION

HOLE DRAG 6-6½ 4-6

TORQUE AT BOTTOM 5800-6300

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	0200	0400	0600
DENSITY kg/m³	1275	1275	
FUNNEL VIS. - (S/L)	58	58	
W.L. (cm³)			TRIP
pH			
PIT	103.7	102.9	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2485	2500	15	15	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
OFF 11600	152	35	152	35
ON 11600				

REDUCED PUMP SPEED

2300 @ @ 41

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2471	4.5	62.9
2484	4.4	62.6

DRILLER SIGNATURE: Dan Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:30	½	2	DRLG 311mm HOLE F/2485m - 2487m
00:30	00:45	¼	10	SURVEY
00:45	04:30	3¾	2	DRLG 2487m - 2500m T.D.
04:30	04:45	¼	10	SURVEY
04:45	05:30	¾	5	CIRCULATE BOTTOMS UP
05:30	05:45	¼	7	RIG FLARE BOOM PIPE RANS F/HWDP 6SKT'S
05:45	08:00	2¼	6	FLOW / PUMP PILL, POOH (STRIP AT)

NOTES: √ BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR. BOILER BLOW DOWN @ 03:00, 07:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MORE/F.S.	1046	1046/.41 m
1/1	MORE/HOS	943	943/1.56 m
1	MOTOR		9.34 m
5	DC	228	45.95 m
1	SUB		7.08 m
3	D.C.	228	27.81 m
1/12	XO/HWDP		103/103.71 m
	BHA		221.76 m
99	E.D.P.		943.50 m
128	X2 D.P.		1225.03 m
3	D.P.	STANDS	87.07 m
2	D.P.	SINGLES	19.33 m
	KELLY DOWN		3.31 m
	TOTAL		2500.00 m
WT. OF DC			1000 daN
WT. OF STRING	100		1000 daN

BIT RECORD

BIT NO.	13
SIZE (mm)	311
IADC CODE	5 3 7 X
MFG.	STC.
TYPE	F3P
SERIAL NO.	LN5346
JETS (mm)	3 x 22.2
DEPTH OUT (m)	2500
DEPTH IN (m)	2389
TOTAL METRES DRILLED (m)	111
TOTAL HOURS RUN	56½

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
4	4	BT	A	F	2	WT	TD	1.9

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MEAS - 1422.3

SALE - 1367.3

DIFF. .55

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2500				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

2300 @ 5040 @ 41

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
BOTTOM 2500	3.6	
START ~~2500~~	~~3.6~~	~~330.52~~
DIFF =	T.F.T	2 Hours.

DRILLER SIGNATURE: Shaun Rogers

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	12:00	4	6	HOIST TO LOG / SWAP DUTT / FLOW CHECKS / 6 SKTS / 6 HWDP + OUT OF HOLE
12:00	13:30	1½	20	LAY DOWN BHA TOOLS
13:30	13:45	¼	7	R/S CLOSE BLIND RAMS FR. FLOOR + MAN SKT 6 STD
13:45	20:00	6¼	11	RIG TO LOG W/ SCHLUMBERGER / LOG RUN #1 SGT, AMS, AIT, GPIT, RNS, DSI / 1ST LOG ON BOTTOM @ 17:30 HRS.

STRIP = 2500.07

BORE OF = 2500.00

DIFF: 2.07

NOTES: √ CROWN SAVER, BRAKE LINKAGE / MST LINE CLAMP √ ANCHOR. Boiler Blow Down @ 1100, 1522, 1700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.3	225°C			255

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:15	2¼	11	RIG UP W/ SCHLUMBERGER RUN #1
22:15	23:45	1½	11	RUN #2 UBI
23:45	24:00	¼	7	R/S

NOTES: √ BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR. BOILER BLOW DOWN @ 2300

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	225			

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111081

LICENCE NO.: SOL 77 | WELL NAME AND NO.: CHEVRON ET AL LUNDP K-27 60°30'N 123° 30'W

OPERATOR: CHEVRON CAN. RES. | CONTRACTOR: ARITA DRILLING LTD

SURFACE LOCATION: K-27 60°30' 123° 30W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 91 | MONTH 03 | DAY 13

RIG NO. 48

FUEL @ 8:00

RIG 204 | BOILER 133

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.4	99.2	BUTRESS	K-55	56	693.60	7.31	701.30

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5"XH	121	7-P-100	NATIONAL	235
	127	29	X2	106	154	5"XH	133	7-P-100	NATIONAL	235
	127	38	X3	101	156	5"XH	168	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.						
MORN.		7 1/4					1/4			1/2																	12
DAY		11 3/4					1/4			1/2																	
EVE																											
TOTAL																											

SHALE SHAKER(S)

NO. | TYPE:

SCREENS CHANGED ☐ YES ☑ NO

TOP 24 | TOP 24

MIDDLE 24 | MIDDLE 24

BOTTOM 24 | BOTTOM 24

RENTALS/SERVICES

	MORN	DAY	EVE
SECOND BOILER	8	12	4
#3 PUMP	8	12	4
#2 BOILER FUEL 19%			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	PDC		.41 m
1/1	PDC/F.S.	216/311	.56 m
1/1	PDC/H.O.S.	6 1/2	7.99 m
1	Motor		7.34 m
5	DC	228	45.75 m
1	JAR		7.08 m
3	DC		27.81 m
1/2	XO/Motor	203/197	9.76 m
	BHA		221.76 m
99	E-DP		943.50 m
108	X3-DP		1025.03 m
1	X3 D.P.	STANDS	27.05 m
XX	X3 D.P.	SINGLES	19.94 m
	KELLY DOWN		9.39 m
	TOTAL		2448 m
WT. OF DC			100x daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	13
SIZE (mm)	311
IADC CODE	537X
MFG.	STC
TYPE	F3P
SERIAL NO.	LW5346
JETS (mm)	3x22.2
DEPTH OUT (m)	
DEPTH IN (m)	2389
TOTAL METRES DRILLED (m)	59
TOTAL HOURS RUN	37 1/4

CUTTING STRUCTURE: T, T0, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 6-8X 4-6X

TORQUE AT BOTTOM: 5000-5700

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	0000	0400	0800
DENSITY kg/m³	1260	1260	1260
FUNNEL VIS. - (S/L)	58	58	56
W.L. (cm³)			
pH			
PVT	1081	102.2	1076

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
SHALE	1 Bucket

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D IN/ RMVD CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2435	2448	13	15	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14300	152	80	152	83

REDUCED PUMP SPEED

2100 @ @ 41

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2422	5.2	69.5
2432.9	5.3	68.1

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:15	7 1/4	2	DRILL 311mm HOLE F/2435m-2448m
07:15	07:30	1/4	7	RIG FUNC. BOTTOM PIPE RAMS F/FLOOR & SEC'S
07:30	08:00	1/2	10	SURVEY

Fuel Transfer Start 193cm Finish 207cm: 400 BBL Start 8.3 Finish 0m³

NOTES: V-BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR. BOILER BLOW DOWN @ 03:00, 07:00 HRS

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	8	9.5	225	110000		3/8

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	PDC		.41 m
1/1	PDC/F.S.	216/311	.56 m
1/1	PDC/H.O.S.	8 1/2	7.99 m
1	Motor		9.34 m
5	D.C.	228	45.75 m
1	JAR		7.08 m
3	D.C.	229	27.81 m
1/1	X0/Motor	203/197	9.76 m
	BHA		221.76 m
99	E-D.P.		943.50 m
128	X3-D.P.		1225.03 m
3	X3 D.P.	STANDS	87.07 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		2477.36 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	13
SIZE (mm)	311
IADC CODE	537X
MFG.	STC
TYPE	F3P
SERIAL NO.	LW5346
JETS (mm)	3-22.2
DEPTH OUT (m)	
DEPTH IN (m)	2389
TOTAL METRES DRILLED (m)	84
TOTAL HOURS RUN	48 1/2

CUTTING STRUCTURE: T, T0, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 6-10T 3-6W

TORQUE AT BOTTOM: 5686-6300

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	9:00	12:00	15:00
DENSITY kg/m³	1255	1270	1275
FUNNEL VIS. - (S/L)	55	61	60
W.L. (cm³)			
pH			
PVT	106.3	105.9	105.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
LIME	30 SX
NONWET	1 BBL
CLEAN UP	2 PAILS
SHALE	3 BUCKET

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D IN/ RMVD CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2448	2477	29	15	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13500	152	80	152	83

REDUCED PUMP SPEED

3000 @ 59 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2442.02	5.2	66.5
2461.56	4.7	60.

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:15	3 1/4	2	DRILL 311mm HOLE W/MOTOR F/2448-2458
11:15	11:30	1/4	10	SURVEY
11:30	19:30	8	2	DRILL 311mm HOLE W/MOTOR F/2458-2477
19:30	19:45	1/4	10	SURVEY
19:45	20:00	1/4	7	R/S CLOSE TOP PIPE RAMS @ FLOOR O/C USE

NOTES: V-BRAKES, SLIPPED BRAKE LINKAGE, ANCHOR, FAST LINE CLAMP. Boiler Blow Down @ 1100, 1500, 1900

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	12			110,000		

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	PDC/F.S.	216/311	.41 m
1/1	PDC/H.O.S.	8 1/2	7.36 m
1	Motor		9.34 m
5	DC		45.75 m
1	JAR		7.03 m
3	DC		27.81 m
1/2	XO/Motor		9.76 m
	BHA		221.76 m
99	E-DP		943.50 m
108	X3-DP		1025.03 m
3	D.P.	STANDS	87.07 m
	D.P.	SINGLES	m
	KELLY DOWN		7.64 m
	TOTAL		2465 m
WT. OF DC			1000 daN
WT. OF STRING	100		1000 daN

BIT RECORD

BIT NO.	13
SIZE (mm)	311
IADC CODE	537X
MFG.	STC
TYPE	F3P
SERIAL NO.	LW5346
JETS (mm)	3x22.2
DEPTH OUT (m)	
DEPTH IN (m)	2389
TOTAL METRES DRILLED (m)	76
TOTAL HOURS RUN	50 1/4

CUTTING STRUCTURE: T, T0, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 6-10T 4-6X

TORQUE AT BOTTOM: 5700-6300

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1270	1270	1275
FUNNEL VIS. - (S/L)	56	58	58
W.L. (cm³)			
pH			
PVT	102.4	103.0	103.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D IN/ RMVD CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2477	2485	8	15	14/15
			40-60	8/10

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15500	152	85	150	85

REDUCED PUMP SPEED

2400 @ 43 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	03:45	3 3/4	2	DRILL 311mm HOLE F/2477m-2485m
03:45	24:00	1/4	9	CLEAN OUT SAND F/FLOOR 15 SEC'S

TRANSFER 40m³ DIESEL F/TANK 16-TANK 1

NOTES: V-BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR. BOILER BLOW DOWN @ 23:30

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4	9.5	225	112000		

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111080

LICENCE NO.: SDL 23 | WELL NAME AND NO.: CHEVRON ET AL LINED K-07 60° 30'N 123° 30W

OPERATOR: CHEVRON CAN. RES. | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-07 60° 30'N 123° 30W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 03 | DAY 13 | RIG NO. 48

FUEL @ 8:00

RIG 1.79 | BOILER K-33

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	101.2	BUTRESS	K-55	56	693.60	7.31	701.30

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	121	7-P-100	NATIONAL	254
127	29	X2	106	152	5"XH	133	9-P-100	NATIONAL	034
127	38	X3	101	156	5"XH	118	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			T½					¼			¼														
DAY			11½					¼			¼														
EVE.																									
TOTAL																									

TOTALS 12

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP 84 | TOP 84

MIDDLE 84 | MIDDLE 84

BOTTOM 84 | BOTTOM 84

RENTALS/SERVICES

	MORN	DAY	EVE
SECOND BOILER	8	12	4
#3 PUMP	8	12	4
#2 BOILER FUEL 2.23			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	MOTOR/F.S.		1041 m
1/1	MONEL/HWDP		1044/336 m
1/1	MONEL/HWDP		843/199 m
1	MONEL		9.34 m
5	DC	206	45.95 m
1	JAR		7.08 m
3	DC	228	27.81 m
1/12	XO/HWDP		883/1069.71 m
	BHA		2217.26 m
99	E-DP		1743.50 m
106	X-DP		1225.03 m
1	X3 D.P.	STANDS	29.05 m
	D.P.	SINGLES	m
	KELLY DOWN		9.67 m
	TOTAL		2429.01 m
WT. OF DC			1000 daN
WT. OF STRING	99		1000 daN

BIT RECORD

BIT NO.	13
SIZE (mm)	311
IADC CODE	S 3 7 X
MFG.	S.T.C.
TYPE	F3P
SERIAL NO.	LN5346
JETS (mm)	3-22.2
DEPTH OUT (m)	
DEPTH IN (m)	2389
TOTAL METRES DRILLED (m)	40
TOTAL HOURS RUN	26½

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG 5-11 ↑ 4-6↓

TORQUE AT BOTTOM 5071 - 5417

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1250	1255	1250
FUNNEL VIS. - (S/L)	62	60	60
W.L. (cm³)			
pH			
	PVT 1125	111.9	111

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
SHALE	1 BUCKET

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2414	2429	15	15	15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
ONE-14700	157	83	152	80

REDUCED PUMP SPEED

2000 @ 43 @ 5 PRO

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2403.34	5.5°	64.8 AZM

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:00	3	2	DRILL 311mm HOLE w/MOTOR F/: 2414 - 2419
11:00	11:15	¼	7	R/S FOR BTM PIPE RAMS @ MAN O/C 55sec
11:15	11:30	¼	10	SURVEY
11:30	20:00	8½	2	DRILL 311mm HOLE w/MOTOR F/: 2419 - 2429

Fuel transfer to Rig Start 1.79m Finish 1.93m

NOTES

VISUAL CHECK FIRST LINE CHIEF / BOILER / LINEMEN FOR LEAKS SAFETY. Boiler Blown Down @ 1100, 1500, 1900

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12			410 000	FUNCTIONING OF BRAKES	461

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2429	2435	6	15	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
ONE-14700	152	83	152	80

REDUCED PUMP SPEED

2400 @ 41 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2413.01	6.5	67.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:30	3½	2	DRILL 311mm HOLE F/2429m - 2435m
23:30	23:45	¼	7	R/S FOR BTM PIPE RAMS F/MAN 15 SEC O/C
23:45	24:00	¼	10	SURVEY

NOTES

VISUAL CHECK FIRST LINE CHIEF / BOILER / LINEMEN FOR LEAKS SAFETY. Boiler Blown Down @ 2300

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	225			

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111079

LICENCE NO.: SOL 9

WELL NAME AND NO.: CHEVRON ET AL LIARD K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-29-60° 30'N 123° 30W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 03 | DAY 11

RIG NO. 48

FUEL @ 8:00

RIG 1,32 | BOILER 60.32

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	B108
WIND DIRECTION	
ROAD	RG 585461

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.34	101.2	BUTRESS	K-55	56	693.60	7.31	701.30

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5"XH	01	9-P-100	NATIONAL	235
	127	29	X2	106	152	5"XH	03	9-P-100	NATIONAL	235
	127	38	X3	101	156	5"XH	168	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 WASH TO BTM + BOP DRILL	24	25	26
	MORN.						5	1/4													2½		1/4			
	DAY		4				3½	1/4			1/4										3		1			
	EVE.																									
	TOTAL																									

TOTALS

SHALE SHAKER(S) NO.	8
TYPE	
SCREENS CHANGED ☐ YES ☐ NO	12
TOP	84
MIDDLE	84
BOTTOM	84
TOP	84
MIDDLE	84
BOTTOM	84

RENTALS/SERVICES

	MORN.	DAY	EVE.
SECOND BOILER	8	12	4
#3 PUMP	8	12	4
SECOND BOILER FUEL 156			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MOTOR/F.S.		41 m
1/1	MOTOR/H.O.S.		10.66/.56 m; BAS/.99 m
1	MONEL		9.34 m
5	D.C.		45.95 m
1	JAR		7.08 m
3	D.C.		27.91 m
1	X/O		.83 m
12	H.W.D.P.		109.71 m
	BHA		221.76 m
99	E-DP		943.50 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	12	13
SIZE (mm)	311	311
IADC CODE	447	537X
MFG.	REED	SMITH
TYPE	EHP44H	FSP
SERIAL NO.	NN3675	LN5346
JETS (mm)	2-20/1-12.5	3x22.2
DEPTH OUT (m)	2389	
DEPTH IN (m)	2356	2389
TOTAL METRES DRILLED (m)	33	
TOTAL HOURS RUN	17	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
TRIP RECORD	
CALC.	13.21
MEAS.	13.34
DIFF	.13

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLD RM/R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2389				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:00	1	6	P.O.O.H. Flow N out of Hole
01:00	01:15	1/4	7	R/S Func. Blind Rams f/floor 6 sec's
01:15	01:30	1/4	3	BOP Drill While out of Hole. Well secured Crown Saver Checked
01:30	02:30	1	20	Make up Bit Service Motor & Install M.W.D.
02:30	04:00	1½	6	R.I.H. to 80m Tripping
04:00	04:05	¼	20	Test M.W.D. Not Working
04:05	07:15	3¼	6	Flow J, Pump Pill, P.O.O.H. for M.W.D. Flow J w/ HWDP f/out of Hole
07:15	08:00	¾	20	Rebuild M.W.D.
				- Clean Suction Screens & Fill Lines. Transfer 3m³ To Rig Tank Start 124cm To 132cm

NOTES: √ Brakes, Linkage, Crown Saver, Clamp, Air Hose / 400 - 38 To 35.3 @ 06:00
Boiler Blow Down @ 01:00 03:00 07:00

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	8	9.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR/F.S.		41 m
1/1	MOTOR/H.O.S.		10.66/.56 m; BAS/.99 m
1	MONEL		9.34 m
5	D.C.	228	45.95 m
1	JAR		7.08 m
3	D.C.		27.91 m
1	XO		.83 m
12	H.W.D.P.		109.71 m
	BHA		221.76 m
99	E-D.P.		943.50 m
128	X2 D.P.	STANDS	1225.03 m
	D.P.	SINGLES	m
X3	KELLY DOWN		4.71 m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING	97		1000 daN

BIT RECORD

BIT NO.	13	
SIZE (mm)	311	
IADC CODE	537X	
MFG.	STC.	
TYPE	F3P	
SERIAL NO.	LN5346	
JETS (mm)	3+22.2	
DEPTH OUT (m)		
DEPTH IN (m)	2389	
TOTAL METRES DRILLED (m)	6	
TOTAL HOURS RUN	4	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10-13T 3.6t
TORQUE AT BOTTOM 5156-5532
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	17:00	19:00
DENSITY kg/m³	1255	1250
FUNNEL VIS. - (S/L)	65	67
W.L. (cm³)		
pH		
	PVT	115. 115.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLD RM/R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2389	2395	6	R 115 S 100	15/15 15/20

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13400 / 13300	152	85	152	85

REDUCED PUMP SPEED 2400 @ SLOW @ 44

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2374.3	5.4	59.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:00	3	20	Rebuild M.W.D. & Circulate Through Kill Line.
11:00	14:30	3½	6	R.I.H. / Test M.W.D. 750 @ 1270 @ 1780
14:30	15:30	1	22	Wash To Bottom. / No Fill.
15:30	15:45	¼	10	Survey
15:45	16:00	¼	7	R/S. Close Btm. Pipe Rams @ Floor 9 sec's.
16:00	20:00	4	2	Drill 311 hole w/Motor f/ 2389-2395

	Start	Finish
Fuel transfer Rig	132 cm	153 cm
	11 m³ total	
Boiler	49 cm	240 cm

NOTES: √ Crown Saver, √ Brakes, Linkage, Air Hose, √ First Line Clamp.
Boiler Blown @ 1100, 1500, 1900

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	12	9.5	275	110	FLASH POINT	461

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MOTOR/F.S.		41 m
1/1	MOTOR/H.O.S.		10.66/.56 m; BAS/.99 m
1	MONEL		9.34 m
5	D.C.		45.95 m
1	JAR		7.08 m
3	D.C.		27.91 m
1	X/O		.23 m
12	H.W.D.P.		109.71 m
99			221.76 m
99	E-D.P.		943.50 m
128	X2 D.P.	STANDS	1225.03 m
2	X3 D.P.	SINGLES	19.36 m
	KELLY DOWN		4.03 m
	TOTAL		2404 m
WT. OF DC			1000 daN
WT. OF STRING	98		1000 daN

BIT RECORD

BIT NO.	13	
SIZE (mm)	311	
IADC CODE	537X	
MFG.	STC	
TYPE	F3P	
SERIAL NO.	LN5346	
JETS (mm)	3 X 22.2	
DEPTH OUT (m)		
DEPTH IN (m)	2389	
TOTAL METRES DRILLED (m)	15	
TOTAL HOURS RUN	7½	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10-12T 4.6t
TORQUE AT BOTTOM 4800-5000
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	20:00	22:00 24:00
DENSITY kg/m³	1245	1345 1270
FUNNEL VIS. - (S/L)	64	63 62
W.L. (cm³)		
pH		
	PVT 115.0	115.0 114.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLD RM/R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2375	2404	9	115	14/15
			S.W.C.	21/22

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13500 / 13400	152	85	152	85

REDUCED PUMP SPEED 2200 @ SLOW 43 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2389	5.7	62.2

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:30	3½	2	Drill Surface F/2375m - 2404m
23:30	23:45	¼	7	R/S Func. Blind Rams F/Floor 16 sec's
23:45	24:00	¼	10	Survey

NOTES: √ Brakes, Linkage, Crown Saver, Clamp, Air Hose
Boiler Blown @ 17:00, 23:00

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4	9.5	225	111000		

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111078

LICENCE NO.: SDL

WELL NAME AND NO.: CHEVRON ET AL LIARD K-27 60° 30'N 123° 30W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: ALTA DRILLING LTD

SURFACE LOCATION: K-27 60° 30'N 123° 30W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. Initial / R.M. Initial

	OPR.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (using checklist)		
(3) H²S Signs Posted (if required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills checked		

YEAR 91 MONTH 03 DAY 10

RIG NO. 48

FUEL @ 8:00

RIG .99 BOILER 1.32

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	+21
WIND DIRECTION	
ROAD	581569

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	337.7	315.34	101.2	BUTTRESS	K-55	56	673.60	7.31	701.30

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	101	9-P-100	NATIONAL	235
127	29	X2	106	152	5"XH	133	7-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	118	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		7¾					¼																	
	DAY		8¼					¼			1														
	EVE.																								
	TOTAL																								

TOTALS 8

SHALE SHAKER(S): NO. / TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP 89 / TOP 89

MIDDLE 89 / MIDDLE 89

BOTTOM 89 / BOTTOM 89

RENTALS/SERVICES

	MORN	DAY	EVE
SECOND BOILER	8	12	4
#3 PUMP	8	12	4
#2 BOILER FUEL 89			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
1½	MONEL F.S.		10.46/.56 m
1½	MONEL H.O.S.		8.42/.99 m
1	MONEL		9.34 m
5	DC		45.95 m
1	SUB		7.08 m
3	DC		27.81 m
1	XO		.83 m
12	H.W.D.P.		109.71 m
	BHA		221.76 m
99	E-DP		943.50 m
42	x2 D.P.	STANDS	1205.87 m
	D.P.	SINGLES	m
	KELLY DOWN		8.44 m
	TOTAL		2370 m
WT. OF DC			1000 daN
WT. OF STRING	92		1000 daN

BIT RECORD

BIT NO.	12
SIZE (mm)	311
IADC CODE	4 4 7
MFG.	REED
TYPE	EHP44H
SERIAL NO.	NN3675
JETS (mm)	2x22/1x17.5
DEPTH OUT (m)	
DEPTH IN (m)	2356
TOTAL METRES DRILLED (m)	14
TOTAL HOURS RUN	8¾

CUTTING STRUCTURE: T_i T_o MOC LOC B Gage ODC Reason Pulled Total Run m/hr.

HOLE CONDITION

HOLE DRAG	3-6↑ 3-6↓
TORQUE AT BOTTOM	4900-5100
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	0200	0400	0600
DENSITY kg/m³	1245	1240	1245
FUNNEL VIS. - (S/L)	76	70	65
W.L. (cm³)			
pH			
PVT	1196	119.5	119.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
LIME	30 SX
SHALE	4 BUCKETS

SOLIDS CONTROL

DESILTER: HOURS RUN / INTAKE DENSITY (kg/m³) / OVERFLOW DENSITY (kg/m³) / UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN / INTAKE DENSITY (kg/m³) / OVERFLOW DENSITY (kg/m³) / UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2359	2370	11	15	13/14

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
0-14800	152	95	152	85

REDUCED PUMP SPEED: 2400 @ 50 @ 43

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:15	1¼	2	DRILL 311mm HOLE F/2359m - 2361m
01:15	01:30	¼	7	R/S FUNC. TOP PIPE RAMS F/MAIN 6SEC%
01:30	08:00	6½	2	DRILL 311mm HOLE F/2361m - 2370m
				Fuel Transfer Start 52cm 400 Start 60m³ @ 06:00 99cm 49m³

NOTES: J. BRAKES, LINKAGE, CROWN SAVER, CLAMP, AIR HOP. BOILER BLOW DOWN @ 0300, 0700

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
Dan Tolman	8	9.5	225	97000		495

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1	MONEL F.S.		10.46/.56 m
1	MONEL H.O.S.		8.42/.99 m
1	MONEL		9.34 m
5	DC.	228	45.95 m
1	SUB		7.08 m
3	D.C.	228	27.81 m
1	XO		.83 m
12	H.W.D.P.		109.71 m
	BHA		221.76 m
99	E3-D.P.		9.1350 m
42	x2 D.P.	STANDS	1205.87 m
X	D.P.	SINGLES	9.58 m
Single	KELLY DOWN		8.29 m
	TOTAL		2389.00 m
WT. OF DC			1000 daN
WT. OF STRING	97		1000 daN

BIT RECORD

BIT NO.	12
SIZE (mm)	311
IADC CODE	4 4 7
MFG.	RECO
TYPE	EHP44H
SERIAL NO.	NN3675
JETS (mm)	2-22.2/1-17.5
DEPTH OUT (m)	2389
DEPTH IN (m)	2356
TOTAL METRES DRILLED (m)	33
TOTAL HOURS RUN	17

CUTTING STRUCTURE: T_i T_o MOC LOC B Gage ODC Reason Pulled Total Run m/hr.

HOLE CONDITION

HOLE DRAG	3-8↑ 3-6↓
TORQUE AT BOTTOM	5109-6147
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1255	1245	1245
FUNNEL VIS. - (S/L)	65	68	67
W.L. (cm³)			
pH			
PVT	118.1	116.2	115.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BULK BARITE	4250 LBS.

SOLIDS CONTROL

DESILTER: HOURS RUN / INTAKE DENSITY (kg/m³) / OVERFLOW DENSITY (kg/m³) / UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN / INTAKE DENSITY (kg/m³) / OVERFLOW DENSITY (kg/m³) / UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2370	2389	19	15	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
0-15170 / 0-17000	152	85	152	85

REDUCED PUMP SPEED: 2600 @ 43 @ SWACO

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2355.13	4.9°	49.2 deg.

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
09:00	16:45	8¼	2	DRILL 311mm HOLE W/MOTOR F/ 2370 - 2389
16:45	16:30	¼	7	R/S CROSS ANNULAR F/ MAIN C/C 15 SECONDS.
16:30	17:30	1	10	SURVEY TIME F/ ABOVE DRILLING.
17:30	18:30	1	5	CIRCULATE BOTTOMS UP.
18:30	20:00	1½	6	FLOW / PUMP PILL / FLOW @ 5 STDS /
				Rig 400
				Fuel transfer start 102cm 49m³
				Finish 125cm 38m³
				-GREASED CROWN, BLOCKS, + BRAKE LINKAGE & MAST.

NOTES: ✓ CROWN SAVER ✓ BRAKE LINKAGE ✓ MAST, LINE CLAMP ✓ AIR HOP. Boiler Blown Down @ 1100, 1500, 1900

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
Dan Tolman	12	9.5	275 °C	105,000		495

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i T_o MOC LOC B Gage ODC Reason Pulled Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	18:00		
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN / INTAKE DENSITY (kg/m³) / OVERFLOW DENSITY (kg/m³) / UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN / INTAKE DENSITY (kg/m³) / OVERFLOW DENSITY (kg/m³) / UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:15	2¼	6	R.O.O.N. FLOW / 0 35 STDS, 60 STDS
22:15	22:30	¼	7	R/S FUNC. LOWER PIPE RAMS F/MAIN 6 SEC%
22:30	23:15	¾	22	WORK ON TOP DRIVE
23:15	24:00	¾	6	R.O.O.H. FLOW / 0 HWDP

NOTES: ✓ BRAKES, LINKAGE, CROWN SAVER, CLAMP, AIR HOP

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4	9.5	225			

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111076

LICENCE NO.: SDL 9[illegible]

WELL NAME AND NO.: CHEVRON ET AL LINKO K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON Can. Res.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-29 60° 30'N 123° 30'N

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Blok Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 03 | DAY 09

RIG NO. 4

FUEL @ 8:00

RIG [illegible]20 | BOILER 133

WEATHER	
TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	101.2	BUTTRESS	K-55	5/6	693.60	7.31	701.3

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	197	29	E	108	152	5"XH	101	7-P-100	NATIONAL	235
	197	29	X2	106	152	5"XH	133	7-P-100	NATIONAL	235
	197	38	X3	101	156	5"XH	168	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		7½					¼			¼											Lay Down BC, change BT		B.O.P. DRILL			
	DAY																									
	EVE.																									
	TOTAL																									

TOTALS: 8

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	84	TOP	84
MIDDLE	84	MIDDLE	84
BOTTOM	84	BOTTOM	84

RENTALS/SERVICES

	MORN	DAY	EVE
SECOND BOILER HRS	8	12	4
#3 PUMP	8	12	4
#2 BOILER FUEL 1.21			

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MOTOR/F.S.	10¼	.41 m / .56 m
1/1	MOTOR/H.O.S.	8¼	.71 m
1	MONEL		9.34 m
5	DC		45.96 m
1	JAR		7.08 m
3	DC		27.51 m
1	X/O		.85 m
12	HWDP		109.71 m
		BHA	221.55 m
79	E.DP		943.50 m
41	x2 D.P.	STANDS	1177.34 m
2	D.P.	SINGLES	18.96 m
	KELLY DOWN		5.35 m
	TOTAL		2356 m
WT. OF DC			1000 daN
WT. OF STRING	92		1000 daN

BIT RECORD

BIT NO.	11
SIZE (mm)	311
IADC CODE	S 3 7
MFG.	REED
TYPE	EHP 53A
SERIAL NO.	LK4965
JETS (mm)	2-20-2/11-17.5
DEPTH OUT (m)	
DEPTH IN (m)	2291
TOTAL METRES DRILLED (m)	65
TOTAL HOURS RUN	40

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	1-3↑ 2-4↓
TORQUE AT BOTTOM	4800-5000
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1250	1255	1245
FUNNEL VIS. - (S/L)	64	63	64
W.L. (cm³)			
pH			
	HVT	1236	1233 - 1230

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
SAND	2 BAGS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2348	2356	8	15	14/15
			SLIDE	19/20

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16200	152	85	152	85

REDUCED PUMP SPEED

2200 @ 42 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2335.7	4.4	34.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:30	7½	2	DRLG 311mm HOLE F/2348m - 2356m
07:30	07:45	¼	7	R/S FUNCTION LOWER PIPE RAMS F/ FLOOR 6 SEC ✓
07:45	08:00	¼	10	SURVEY FOR ABOVE DRILLING

NOTES: BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR, BOILER, BLOW DOWN @ 02:00, 06:00 ALL FOR LEAKAGES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225	96150		495

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR/F.S.	10¼	.41 m / .56 m
1/1	MONEL/H.O.S.	8¼	9.43 / .99 m
1	MONEL		9.34 m
5	D.C.	228	45.95 m
1	JAR		7.08 m
3	D.C.	228	27.81 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.76 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	11	12
SIZE (mm)	311	311
IADC CODE	S 3 7	4 4 7
MFG.	REED	REED
TYPE	EHP 53A	EHP 44H
SERIAL NO.	LK4965	NN3675
JETS (mm)	2-20-2/11-17.5	2-22-2/11-17.5
DEPTH OUT (m)	2356	
DEPTH IN (m)	2291	
TOTAL METRES DRILLED (m)	65	
TOTAL HOURS RUN	40	

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

	3	6	BT	O	F	4	WT	TD	1.6

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

BOILER BLOW DOWN @ 12:00 + 19:00 HRS

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2356				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

3300 @ 42 @ SAME

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
MEAS-	13.35 m	$
CALC -	12.98 m³	
	.47 m³	DIFF.

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	12:00	4	6	FLOW / PUMP PILL / FLOW / STOP / FLOW
				40 STDS. 10 HWDP + OUT OF HOLE.
12:00	14:00	2	22	(LAY DOWN 311.9° D.C.)
14:00	15:00	1	23	CHANGE OUT B.T + CHECK MWD
15:00	15:15	¼	7	R/S CASE BLIND RAMS, FRICTION + MANIFOLDS
15:15	17:30	2¼	6	MAKE UP B.T, STRAP D.C. + PICK UP 2 D.C. + RUN IN BHA
17:30	17:45	¼	24	HOLD B.O.P. DRILL W/CREW INTRIPPING MODE. WELL SECURED IN 90 SECONDS.
17:45	18:15	½	6	RUN IN TO 735m
18:15	18:30	¼	25	TEST MWD
18:30	19:15	¾	9	SLIP + CUT 18m OF DRILLING LINE.

NOTES: BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR

19:15	20:00	¾	6	RUN IN W/BIT #12

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225°			495

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MOTOR/F.S.	10¼	.41 m / .56 m
1/1	MONEL/H.O.S.	8¼	9.43 / .99 m
1	MONEL		9.34 m
5	DC		45.95 m
1	JAR		7.08 m
3	DC		27.81 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.76 m
79	E.DP		943.50 m
41	x2 D.P.	STANDS	1177.34 m
2	D.P.	SINGLES	18.96 m
	KELLY DOWN		2.56 m
	TOTAL		2359 m
WT. OF DC			1000 daN
WT. OF STRING	92		1000 daN

BIT RECORD

BIT NO.	12
SIZE (mm)	311
IADC CODE	4 4 7
MFG.	REED
TYPE	EHP 44H
SERIAL NO.	NN 3675
JETS (mm)	2-22-2/11-17.5
DEPTH OUT (m)	
DEPTH IN (m)	2356
TOTAL METRES DRILLED (m)	3
TOTAL HOURS RUN	1

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	1-3↑ 2-4↓
TORQUE AT BOTTOM	5196
FILL ON BOTTOM (m)	0

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME			24:00
DENSITY kg/m³			1245
FUNNEL VIS. - (S/L)			78
W.L. (cm³)			
pH			
			121.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2356	2359	3	15	12/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16200	152	85	152	85

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	21:45	1¾	6	R.I.H. TO 1225m TEST M.W.D. 1750m, DRILL TO 2285m
21:45	23:00	¼	7	R/S FUNCTION BLIND RAMS F/FLOOR 6 SEC ✓
23:00	23:00	1	5	WASH F/2285m - 2356m (NO FILL)
23:00	24:00	1	2	DRILL 311mm HOLE F/2356m - 2359m

NOTES: BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR, BOILER, BLOW DOWN

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

111075

LICENCE NO.: S[illegible]99 | WELL NAME AND NO.: CHEVRON ET AL LIARD K-27, 60° 30'N, 123° 30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60° 30'N, 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature] | SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY
77	03	08

RIG NO.: 49

FUEL @ 8:00

RIG: 122 | BOILER: 32

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.54	101.2	BURGESS	K-55	36	673.60	7.31	701.30

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5"XH	121	GP100	NATIONAL	234
	127	29	X2	106	152	5"XH	133	GP100	NATIONAL	234
	127	35	X3	101	156	5"XH	100	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			7½					¼			¼														
DAY			7½					¼			¼														
EVE.			7½					¼			¼														
TOTAL																									

TOTALS

8			
8	SCREENS CHANGED ☐ YES ☑ NO		
8	TOP 84	TOP 84	
8	MIDDLE 84	MIDDLE 84	
8	BOTTOM 84	BOTTOM 84	

SHALE SHAKER(S)

NO. | TYPE

RENTALS/SERVICES

	MORN	DAY	EVE
SECOND BOILER	8	12	4
#3 PUMP	8	12	4
FUEL FOR #3 BOILER @ U600 1.57			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
1/1	MOTOR/FLEX SUB	216	10.46 m
1/1	MONEL/NOS.	242	8.77 m
1	MONEL		9.34 m
5	DC's	228	45.96 m
1	JAR		7.08 m
3	DC's	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E.D.P.		943.50 m
5/0	x2 D.P.	STANDS	1178.71 m
	D.P.	SINGLES	m
	KELLY DOWN		.66 m
	TOTAL		2324 m
WT. OF DC			1000 daN
WT. OF STRING		91	1000 daN

BIT RECORD

BIT NO.	11
SIZE (mm)	311
IADC CODE	537
MFG.	REED
TYPE	EHP53A
SERIAL NO.	LK4965
JETS (mm)	2-22/1-175
DEPTH OUT (m)	
DEPTH IN (m)	2291
TOTAL METRES DRILLED (m)	33
TOTAL HOURS RUN	17½

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	1-4↑ 0-4↓
TORQUE AT BOTTOM	5000 FT lbs.
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1235	1230	1230
FUNNEL VIS. - (S/L)	72	71	70
W.L. (cm³)			
pH			
PVT	119.1	118.8	118.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BUCKETS OFF SHALE	3 BUCKETS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DP.D RM.R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2310	2324	14	15	13/14

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
ON 16500	152	85	152	85

REDUCED PUMP SPEED

2700 @ [ ] @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2307.30	3.2	22.8

DRILLER SIGNATURE

[signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:30	7½	2	DRLG 311mm HOLE W/MOTOR FR: 2310m - 2324m
07:30	07:45	¼	7	RIG SERVICE FOR BOOM PIPES @ FLOOR 6 SEC ⁵/₆
07:45	08:00	¼	10	SURVEY FOR FLARE DRILLING.

NOTES: CROWN SAVER, CLAMP, BRAKES, ANCHOR. BOILER BLOW DOWN @ 3:00 & 6:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225			4/87

DRILLER SIGNATURE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
1/1	MOTOR/F.S.	216	10.46/5.56 m
1/1	MONEL/N.O.S.	242	8.42/1.77 m
1	MONEL		9.39 m
5	DC		45.16 m
1	JAR		7.08 m
3	DC		27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E.D.P.		943.50 m
41	x2 D.P.	STANDS	1177.34 m
	D.P.	SINGLES	m
	KELLY DOWN		~~4.39~~ m
	TOTAL		2338 m
WT. OF DC			1000 daN
WT. OF STRING		91	1000 daN

BIT RECORD

BIT NO.	11
SIZE (mm)	311
IADC CODE	537
MFG.	REED
TYPE	EHP53A
SERIAL NO.	LK4965
JETS (mm)	2-22/1-175
DEPTH OUT (m)	
DEPTH IN (m)	2291
TOTAL METRES DRILLED (m)	47
TOTAL HOURS RUN	25

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	1-5↑ 1-5↓
TORQUE AT BOTTOM	4600-4800
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	0900	1200	1500
DENSITY kg/m³	1230	1200	1200
FUNNEL VIS. - (S/L)	69	69	70
W.L. (cm³)			
pH			
PVT	114.7	119.6	125.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
LIME	465#
NOVAWET	2 BBL
INERT	10 m³
PREMIX MIX	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DP.D RM.R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2329	2338	14	14	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
ON 16400	152	85	152	85

REDUCED PUMP SPEED

2300 @ 42 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2316.9	3.4	27.8

DRILLER SIGNATURE

[signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	12:00	4	2	DRLG 311mm HOLE 2329m - 2332m
12:00	12:15	¼	7	RIG SERVICE. ANNULAR F/FLOOR 16 SEC ⁶/₆
12:15	12:30	¼	10	SURVEY
12:30	16:00	3½	2	DRLG F/2332m - 2338m

NOTES: BRAKES, LINKAGE, CROWN SAVER CLAMP, ANCHOR. BOILER BLOW DOWN @ 10:00, 14:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225	96000		4/85

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	MOTOR/F.S.	10.46/5.56 m	
1/1	MONEL/N.O.S.	8.42/1.99 m	
1	MONEL		9.34 m
5	D.C.	228	45.96 m
1	JAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E.D.P.		943.50 m
41	x2 D.P.	STANDS	1177.34 m
	D.P.	SINGLES	m
	KELLY DOWN		5.61 m
	TOTAL		2348.00 m
WT. OF DC			1000 daN
WT. OF STRING		92	1000 daN

BIT RECORD

BIT NO.	11
SIZE (mm)	311
IADC CODE	537
MFG.	REED
TYPE	EHP53A
SERIAL NO.	LK4965
JETS (mm)	2-22/1-175
DEPTH OUT (m)	
DEPTH IN (m)	2291
TOTAL METRES DRILLED (m)	57
TOTAL HOURS RUN	32½

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	5-4 up 2-5 Down
TORQUE AT BOTTOM	4764-6531
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1240	1235	1245
FUNNEL VIS. - (S/L)	67	68	67
W.L. (cm³)			
pH			
PVT	124.3	124.7	124.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
NOVAWET	2 BBL
BARITE	6 MT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DP.D RM.R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2338	2348	10	14	14/16

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
OFF 16400 ON 16500	152	85	152	85

REDUCED PUMP SPEED

3500 @ IDLE @ 57

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2326.4	3.9°	32 Azm.

DRILLER SIGNATURE

[signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	19:00	3	2	DRLG 311mm HOLE W/MOTOR FR: 2338-2342
19:00	19:15	¼	7	R/S CLOSE TOP PIPE RAMS F/FLOOR O/E 6 SEC
19:15	19:30	¼	10	SURVEY
19:30	24:00	4½	2	DRLG 311mm HOLE W/MOTOR FR: 2342-2348

NOTES: CROWN SAVER, BRAKE LINKAGE, FASTLINE CLAMP, ANCHOR. BOILER BLOW DOWN @ 1800, 2200

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225C	120000		4/61

FOLD HERE →

111074

LICENCE NO.: 50479 | WELL NAME AND NO.: CHEVRON ET AL LINDA K-29, 60°30'N, 123° 30W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-29, 60° 30'N, 123° 30W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. Initial / R.M. Initial

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 93 | MONTH 03 | DAY 09 | RIG NO. 4 BUF

FUEL @ 8:00 | RIG 162 | BOILER 32

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.91	66.2	BUTTRESS	K-55	36	673.60	7.51	701.36

WEATHER

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
TEMPERATURE °C	127	29	E	108	152	5" XH	121	NATIONAL 7-P-80	NATIONAL	254
CURRENT CONDITIONS	127	29	X2	106	152	5" XH	133	9-P-100	NATIONAL	254
WIND DIRECTION	127	38	X3	101	156	5" XH	150	F-1000	EMSCO	254
ROAD										

TIME-HRS

CODE NO.	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.
	MORN.						5 1/4	1/4													2	
	DAY		6 1/2				3 3/4	1/4														
	EVE.		3 1/4					1/4			1/4											
	TOTAL																					

TOTALS: 8

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP	84	TOP	84
MIDDLE	84	MIDDLE	84
BOTTOM	84	BOTTOM	84

RENTALS/SERVICES

	MORN.	DAY	EVE.
SECOND BOILER	8	12	4
#3 PUMP	8	12	4
FUEL FOR #2 BOILER 1.9C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.41 m
1/1	MOTOR FLEX SUB	10 1/16	10.56 m
1/1	MONEL 11.06	8 1/2	8.91 m
1	MONEL		9.34 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	27.57 m
1	X/O		.83 m
12	HWDP		109.71 m
	JAR	-	221.55 m
99	E-DP		943.50 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	10	11
SIZE (mm)	311	311
IADC CODE		5 3 7
MFG.	REED	REED
TYPE	HP62A	EHP53A
SERIAL NO.	MA9034	LK4965
JETS (mm)	2x11/1x13.5	2x22/1x13.5
DEPTH OUT (m)	2291	
DEPTH IN (m)	2246	2291
TOTAL METRES DRILLED (m)	45	
TOTAL HOURS RUN	14 3/4	

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
2	2	FC	A	E	I	N	PR	30

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
Hole Full		
Calc	12.69	
Mes	13.23	
Dif.	.54	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	05:45	5 3/4	6	Pull out of Hole Found @ 2270m. 2166m 1450, 550m, 230m, 4 out of Hole
05:45	06:00	1/4	7	Rig Service Fan Belts @ Rear + Main Box 1/2
06:00	05:00	2	20	Change Out Monel.

NOTES: Crown Saver, Brakes, Lubricate, Crane, Anchor. Boiler Blow Down @ 04:00, 10:00

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	8	10.5	225			530 AM

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.91 m
1/1	MOTOR/FLEX	10 1/16	10.56 m
1/1	MONEL/HOS.	8 1/2	8.97 m
1	MONEL		9.34 m
5	DC		45.96 m
1	JAR		7.08 m
3	DC		27.57 m
1	X/O		.83 m
12	HWDP		109.71 m
		BHA	221.55 m
99	E-DP		945.50 m
39	D.P.	STANDS	1119.98 m
XX	D.P.	SINGLES	19.16 m
	KELLY DOWN		7.53 m
	TOTAL		2309.9 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	11	
SIZE (mm)	311	
IADC CODE	5 3 7	
MFG.	REED	
TYPE	EHP53A	
SERIAL NO.	LK4965	
JETS (mm)	2x22.2/1x12.5	
DEPTH OUT (m)		
DEPTH IN (m)	2291	
TOTAL METRES DRILLED (m)	13	
TOTAL HOURS RUN	6 1/2	

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 3-5↑ 3-5↓
TORQUE AT BOTTOM: 4600 - 4900
FILL ON BOTTOM (m): 0

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	15:00	17:00	19:00
DENSITY kg/m³	1250	1230	1235
FUNNEL VIS. - (S/L)	76	72	72
W.L. (cm³)			
pH			
PVT	121.4	121.2	120.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	20SX
4 Buckets Shale	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2291	2309	13	15	13

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11200	152	85	152	85

REDUCED PUMP SPEED

2710 @ | @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1	20	Pick up Hel motor, Remove Stabl. Sleeve + Install Slick Sleeve Screw motor + Install M.W.D.
09:00	12:45	3 3/4	6	Make up BIT #11 R.I.H. Test M.W.D. @ 750m, 1250m, 1750m R.I.H. to 2275m
12:45	13:15	1/2	5	Wash F/2275m - 2291m (No Fill)
13:15	19:45	6 1/2	2	Drill 311mm Hole F/2291m - 2304m
19:45	20:00	1/4	7	Rig Fork. Top Pipe Rams Leak C/b F/Mand

NOTES: Brakes, Lubricate, Crane, Sewer, Clamp, Anchor. Blow Down @ 11:00, 15:00, 19:00 HRS / Transfer 1m³ Diesel / Weatherford

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	10	9.6	225°			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.41 m
1/1	MOTOR/FLEX	10 1/16	10.56 m
1/1	MONEL/HOS.	8 1/2	8.97 m
1	MONEL		9.34 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	27.57 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E-DP		943.50 m
39	1/2 D.P.	STANDS	1119.98 m
2	1/2 D.P.	SINGLES	17.16 m
	KELLY DOWN		5.81 m
	TOTAL		2310.30 m
WT. OF DC			1000 daN
WT. OF STRING		91	1000 daN

BIT RECORD

BIT NO.	11	
SIZE (mm)	311	
IADC CODE	5 3 7	
MFG.	REED	
TYPE	EHP 53A	
SERIAL NO.	LK 4965	
JETS (mm)	2x22.2/1x12.5	
DEPTH OUT (m)	—	
DEPTH IN (m)	2291	
TOTAL METRES DRILLED (m)	19	
TOTAL HOURS RUN	10	

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 3-4 4-4
TORQUE AT BOTTOM: 4725 Ft lbs.
FILL ON BOTTOM (m): —

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	20:30	~~21:00~~ 23:00	
DENSITY kg/m³	1235	1230	
FUNNEL VIS. - (S/L)	73	72	
W.L. (cm³)			
pH			
PVT	121.1	120.2	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2304	2310	6	15	12/13

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16000	152	85	152	85

REDUCED PUMP SPEED

2700 @ | @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2288.2	2.4	25.3

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:30	3 1/2	2	Drill 311mm Hole W/Motor, F/: 2304 - 2310
23:30	23:45	1/4	7	Rig Service Fan Belts @ Main Box 1/2
23:45	24:00	1/4	10	Survey For Above Drilling

NOTES: Crown Saver, Brakes, Lubricate, Crane, Anchor. Boiler Blow Down @

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4	9.6	225°			457

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111073

LICENCE NO.: 50099 | WELL NAME AND NO.: CNRL Ferrier Lindbergh K-29, 60° 30'N, 125° 30'W

OPERATOR: Canadian Natural Resources Ltd. | CONTRACTOR: Akita Drilling Ltd.

SURFACE LOCATION: K-29 60° 30'N, 125° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 03 | DAY 06 | RIG NO. 45 | FUEL @ 8:00 | RIG 202 | BOILER 22

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.70	315.34	107.2	Baker	K-55	36	693.60	7.31	701.30

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	3935
WIND DIRECTION	
ROAD	6675/14

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5½ H	121	9 P100	NATIONAL	235
	127	29	X	106	152	5½ H	133	9 P100	NATIONAL	235
	102	38	X	101	156	5½ H	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.						7¾		¼																	
DAY			7½			5¾	1¼	¼			¼														
EVE.																									
TOTAL																									

TOTALS

	SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
8	NO.	TYPE				
8	SCREENS CHANGED ☐ YES ☐ NO		Second Boiler	8	12	4
12	TOP 84	TOP 84	#3 Pump	8	12	4
	MIDDLE 84	MIDDLE 84	Fuel #2 Boiler 232			
	BOTTOM 84	BOTTOM 84				

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	MOTOR FLEX SUB	203.20	9.26 m
1	MOTOR #M.S.	244.5	8.79 m
1	MONEL		9.39 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA =		221.55 m
99	E-DP		993.50 m
38	x2 D.P.	STANDS	1071.26 m
2	x2 D.P.	SINGLES	15.15 m
	KELLY DOWN		.54 m
	TOTAL		2276 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	10
SIZE (mm)	311
IADC CODE	
MFG.	REED
TYPE	HP62A
SERIAL NO.	MM9034
JETS (mm)	2x19/1-12.5
DEPTH OUT (m)	
DEPTH IN (m)	2246
TOTAL METRES DRILLED (m)	30
TOTAL HOURS RUN	7¼

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED			
TIME	02:00	04:00	06:30
DENSITY kg/m³	1050	1065	1075
FUNNEL VIS. - (S/L)	71	71	75
W.L. (cm³)			
pH			
PVT	112.9	114.6	116.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2276				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13700	152	85	152	85

REDUCED PUMP SPEED

2400 @ 95 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:45	7¾	5	Circ. Condition Mud (Mix + Barite) Circ. out Gas. Over Shaker.
07:45	08:00	¼	7	Rig Service

NOTES: Crown Saver, Brakes + Linkage, Clamp + Anchor. Bubble Bleed Down @ 8:00 & 16:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.91 m
1/1	motor/F.S.		10.44 m
1/1	motor/H.O.S.		8.49 m
1	monel		9.39 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
77	E-DP		993.50 m
39	x2 D.P.	STANDS	1119.98 m
X	x2 D.P.	SINGLES	9.58 m
	KELLY DOWN		5.17 m
	TOTAL		2241 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	10
SIZE (mm)	311
IADC CODE	
MFG.	REED
TYPE	HP62A
SERIAL NO.	MM9034
JETS (mm)	2x19/1x12.5
DEPTH OUT (m)	
DEPTH IN (m)	2246
TOTAL METRES DRILLED (m)	45
TOTAL HOURS RUN	14¾

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 2-5I 3-6W

TORQUE AT BOTTOM 4800-5000

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED			
TIME	10:00	12:00	14:00
DENSITY kg/m³	1115	1160	1175
FUNNEL VIS. - (S/L)	75	75	77
W.L. (cm³)			
pH			
PVT	121.0	124.0	125.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
80T	BARITE
4 BUCKETS	SHALE

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2276	2291	15	75	13/15
			Slide	15/16

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14500	152	85	152	85

REDUCED PUMP SPEED

2400 @ 93 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2261.	3.0	402

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:15	2¼	5	Circ. Cond. Mud (Mix Barite) Circ. out Gas
10:15	14:00	3¾	2	Drill 311mm Hole f/2276m - 2285m
14:00	14:15	¼	10	Survey
14:15	18:00	3¾	2	Drill f/2285m - 2291m
18:00	18:30	½	5	Circ. + Mix Pill
18:30	18:45	¼	7	R/S Funk. Manifold f/Floor 16 sec c/l
18:45	20:00	1¼	6	Flow ✓, Pump Pill. P.O.O.H. Flow ✓ @ 5 stds

NOTES: Brakes, Linkage, Crown Saver, Clamp, Anchor. Bubble Bleed Down @ 10:00, 15:00, 19:00 HRS

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225?			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	motor/F.S.		10.44 m
1/1	motor/H.O.S.		8.49 m
1	monel		9.39 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA =		221.55 m
77	E-DP		993.50 m
38	x2 D.P.	STANDS	1119.98 m
1	x2 D.P.	SINGLES	9.58 m
	KELLY DOWN		5.17 m
	TOTAL		2291 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	10
SIZE (mm)	311
IADC CODE	
MFG.	REED
TYPE	HP62A
SERIAL NO.	MM9034
JETS (mm)	2x19/1-12.5
DEPTH OUT (m)	
DEPTH IN (m)	2246
TOTAL METRES DRILLED (m)	45
TOTAL HOURS RUN	14¾

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED			
TIME	18:00	22:00	
DENSITY kg/m³	1230	1245	
FUNNEL VIS. - (S/L)	74	74	
W.L. (cm³)			
pH			
	125.6	123.3	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15100	152	85	152	85

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
2000	21:45	1¾	6	Pull Out of Hole Flow + Entry Stands - @ 1716m Run Back To Btm No Fill.
21:45	23:45	2	5	Circ. Btms Up
23:45	24:00	¼	7	Rig Service. Flow from Pits to Trip Tank 0.5 b/o

NOTES: Crown Saver, Brakes + Linkage, Clamp + Anchor

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					530

FOLD HERE →

111072

LICENCE NO.: 5[illegible]97 | WELL NAME AND NO.: K-29, 60° 30'N, 123° 30'W CHEVRON CANADA LIMITED

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: PR. #4 DRILLING LTD

SURFACE LOCATION: K-29 60° 30N, 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flanglines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 94 | MONTH 03 | DAY 05

RIG NO. 45 46

FUEL @ 8:00

RIG 1.60 | BOILER 30

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.91	107.2	BAWDEN	K-55	36	693.60	7.31	701.30

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	[illegible]	108	152	5"XH	121	9 P100	NATIONAL	231
127	29	[illegible]	106	154	5"XH	133	9 P100	NATIONAL	231
127	38	[illegible]	101	156	5"XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.					1/2	6	1/4		3/4											1/2					
	DAY		7 1/4			3	13/4	1/4			1/4															
	EVE.					3 1/4		1/4																		
	TOTAL																									

TOTALS

8	
12	
4	

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP		TOP	
MIDDLE	84	MIDDLE	84
BOTTOM	84	BOTTOM	84

RENTALS/SERVICES

	MORN.	DAY	EVE.
Sperry Sun	8	12	4
Tuboscope Pump	8	12	4
Tuboscope Pump			
1.17			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
1/1	MOTOR/F.S.	244	10.46/5.36 m
1/1	MONEL/M.W.D.	203	8.42/2.99 m
1	MONEL		9.34 m
5	DC	203	45.96 m
1	JAR		7.09 m
3	DC	203	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E-DP		943.50 m
37	D.P.	STANDS	1110.40 m
3/4	D.P.	SINGLES	1110.91 m
	KELLY DOWN		.54 m
	TOTAL		2276 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	9
SIZE (mm)	311
IADC CODE	5 1 7 B
MFG.	SEC
TYPE	GS541
SERIAL NO.	730870
JETS (mm)	2x11-12.5 2x11-12.5
DEPTH OUT (m)	2246
DEPTH IN (m)	2133
TOTAL METRES DRILLED (m)	113
TOTAL HOURS RUN	18.5

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
5	8	BT	A	F	2	BT	TD	6.1

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED PRODUCT	AMOUNT X UNIT
SHALE TRAP	13 BAGS
LIGNITE	5 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0000	0330	3 1/2	6	PULL OUT FLOW @ 700, 230m, 1 CONNECTION
0330	0300	1/2	20	CHANGE BIT & MWD.
0300	0315	1 1/4	7	RIG SERVICE RIG BRAKES & LINES ADJUST
0315	0345	2 1/2	6	RUN IN HOLE TO 740m.
0345	0415	1/2	5	BREAK CIRC & TEST MWD.
0415	0700	2 3/4	9	SLIP & CUT 18m
0700	0800	1	6	RUN IN HOLE

NOTES: ✓CREW SAFETY, REVIEW HAZARDS, CLIMATE, ACTIVITY. BOILER BROKE DOWN. RIG UP 6:00

DRILLER SIGNATURE

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	95	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
1/1	MOTOR/F.S.	244	10.46/5.36 m
1/1	MONEL/M.W.D.	203	8.42/2.99 m
1	MONEL		9.34 m
5	DC		45.96 m
1	JAR		7.08 m
3	DC		27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E-DP		943.50 m
37	D.P.	STANDS	1110.40 m
3/4	D.P.	SINGLES	1110.91 m
	KELLY DOWN		.54 m
	TOTAL		2276 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	10
SIZE (mm)	311
IADC CODE	
MFG.	REED
TYPE	HP62A
SERIAL NO.	mm9038
JETS (mm)	3x14/1x12.5
DEPTH OUT (m)	
DEPTH IN (m)	2246
TOTAL METRES DRILLED (m)	30
TOTAL HOURS RUN	7 1/4

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG 2-4↑ 2-4↓

TORQUE AT BOTTOM

FILL ON BOTTOM (m) 6

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	12:00	17:00
DENSITY kg/m³	1030	1020
FUNNEL VIS. - (S/L)	82	79
W.L. (cm³)		
pH		
PVT	106.1	113.6

MUD MATERIALS ADDED PRODUCT	AMOUNT X UNIT
LIME	20 SX
INVERMUL	5 DRUMS
BARITE	
BARITE	3 SACKS
SHALE TRAP	4 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	1030	1030	1750

DAY TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2246	2276	30	15	13/14
			40-105	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
5400	152	85	152	85

REDUCED PUMP SPEED 2100 @ 43 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2259.5	4.0	50.1

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	0845	1/4	6	RIH TO 1500m. TEST MWD
0845	0930	1/4	5	BREAK CIRC & TEST MWD.
0930	0930	1	6	RIH TO 2170m
0930	1045	3/4	5	WASH TO BOTTOM (NO FILL) WORK PIPE & CLEAN BOTTOM PRIOR TO DRLG
1045	1445	4 1/2	2	DRILL 311mm HOLE F/2204.6m - 2265m
1445	1545	1	5	FLOW & CIRCULATE OUT GAS
1545	1630	2 3/4	2	DRILL F/2265m - 2276m
1830	1930	1	5	FLOW & CIRCULATE
1930	1945	1/4	7	P/S FOR WIPER TRIP TO 1500m
1945	2000	1/4	10	SURVEY FOR ABOVE DRILLING

NOTES: ✓SPERRY CONTRACTOR, CREW & CLIMATE, ACTIVITY. Boiler Fuel Start 109cm Finish 256cm, 3m³/Rig Start 152cm, Finish 233cm. BOILER Fuel Down @ 10:00, 14:00, 18:00 HRS. 15m³

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	205°			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
1/1	MOTOR/F.S.	244	10.46/5.36 m
1/1	MONEL/M.W.D.	203	8.42/2.99 m
1	MONEL		9.34 m
5	DC	208	45.96 m
1	JAR		7.08 m
3	DC	208	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E-DP		943.50 m
36	D.P.	STANDS	1091.26 m
	D.P.	SINGLES	19.15 m
	KELLY DOWN		.54 m
	TOTAL		2276 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	10
SIZE (mm)	311
IADC CODE	
MFG.	REED
TYPE	HP62A
SERIAL NO.	mm9038
JETS (mm)	3x14/1x12.5
DEPTH OUT (m)	
DEPTH IN (m)	2246
TOTAL METRES DRILLED (m)	30
TOTAL HOURS RUN	7 1/4

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	19:00	21:00	24:00
DENSITY kg/m³	1030	1015	1030
FUNNEL VIS. - (S/L)	72	70	70
W.L. (cm³)			
pH			
PVT	110.5	111.3	112.4

MUD MATERIALS ADDED PRODUCT	AMOUNT X UNIT
INV. CORR.	
BULK BARITE	1070 kg

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
5400	152	85	152	85

REDUCED PUMP SPEED 2100 @ 43 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
2000	2345	3 3/4	5	CIRC OUT GAS & MW BOOSTER
2345	2400	1/4	7	RIG SERVICE FUNCTION CROWN

NOTES: ✓CREW SAFETY, REVIEW HAZARDS & CLIMATE, ACTIVITY. BOILER DOWN @

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	225			

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111071

LICENCE NO.: 501 99 | WELL NAME AND NO.: CHEVRON ET AL LAIRD K-27, 60° 30N, 123° 30W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K29, 60°30N, 123° 30W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 97 | MONTH 03 | DAY 24
RIG NO. 4/9
FUEL @ 8:00
RIG 199 | BOILER 3.2

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.31	101.2	BURGESS	K-55	36	693.60	7.31	701.30

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5 XH	121	7P100	NATIONAL	234
	127	29	X	106	152	5 XH	133	7P100	NATIONAL	234
	127	38	X	101	156	5 XH	168	F 1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		7½					¼			¼												4½			
	DAY		10½					¼			1											1/4				
	EVE.					1	2½	¼																		
	TOTAL																									

TOTALS

	8
	12
	4

SHALE SHAKER(S)

NO. | TYPE
SCREENS CHANGED ☐ YES ☐ NO
TOP 84 | TOP 84
MIDDLE 84 | MIDDLE 84
BOTTOM 84 | BOTTOM 84

RENTALS/SERVICES

	MORN	DAY	EVE
SECOND BOILER	8	12	4
#2 PUMP	8	12	4
FUEL FOR #2 BOILER 154			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1	MOTOR	156	6.56 m
1	MWD/L.S.	H.O.S.	8.42 m
1	MONEL		9.34 m
5	DC	228	45.76 m
1	JAR		7.08 m
3	DC		27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA =		221.5 5m
99	E-DP		943.50 m
35	D.P.	STANDS	1005.07 m
2	D.P.	SINGLES	19.15 m
	KELLY DOWN		m
	TOTAL		2187.27 m
WT. OF DC			1000 daN
WT. OF STRING			91 1000 daN

BIT RECORD

BIT NO.	9
SIZE (mm)	311
IADC CODE	5 1 7 B
MFG.	SEC
TYPE	G584F
SERIAL NO.	730870
JETS (mm)	2x9, 1x11-175
DEPTH OUT (m)	—
DEPTH IN (m)	2133
TOTAL METRES DRILLED (m)	56
TOTAL HOURS RUN	16 8

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG 2-1-4 1-1-3
TORQUE AT BOTTOM 6400 - 6500 ft-lbs.
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1020	1025	1020
FUNNEL VIS. - (S/L)	85	86	85
W.L. (cm³)			
pH			
PVT	111.8	113.3	120.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
INVERT	10m³ FROM
PREMIX TO ACTIVE	
INVERT	10m³ FROM
400 BBL TO PREMIX	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1233

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1025	1015	1690

MORNING TOUR

METRES DRILLED

FROM	TO	DRLD R&I R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2139	2189	50	15	12/13
			5/60	12/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13400	152	85	152	85

REDUCED PUMP SPEED: 2200 @ 60 @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2144.50	4.5	85.7

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:45	2¾	2	DRLG 311mm HOLE F/MOTOR F/ 2139m - 2160m.
02:45	03:00	¼	9	RIG SERVICE TOP DRIVE
03:00	03:15	¼	22	SERVICE TOP DRIVE INSTALL COMPUTER BRAKE ENG.
03:15	07:45	4½	2	DRLG 311mm HOLE W/MOTOR F/ 2160m - 2187m
07:45	08:00	¼	10	SURVEYS FOR ABOVE DRILLING

NOTES: ✓CROWN SAVER, BEARING LOOSE, CHAIN ADJUST. BOILER FLOW TO MIX 4:25 & 7:00

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	9	7.5	225	95		2144

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
½	MOTOR	156	6.56 m
½	MWD/L.S.	H.O.S.	8.42 m
1	MONEL		7.34 m
5	DC		45.76 m
1	JAR		7.08 m
3	DC		27.51 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E-DP		943.50 m
37	D.P.	STANDS	1062.53 m
2	D.P.	SINGLES	19.16 m
	KELLY DOWN		m
	TOTAL		2246 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	9
SIZE (mm)	311
IADC CODE	5 1 7 B
MFG.	SEC.
TYPE	G584F
SERIAL NO.	730870
JETS (mm)	2x9, 1x11-175
DEPTH OUT (m)	
DEPTH IN (m)	2133
TOTAL METRES DRILLED (m)	113
TOTAL HOURS RUN	18½

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG 2-4+ 2-4+
TORQUE AT BOTTOM 5200-6300
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	0900	1200	1500
DENSITY kg/m³	10+	10+	1025
FUNNEL VIS. - (S/L)	81	79	80
W.L. (cm³)			
pH			
		116.3	114.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
LIME	25 SX
2 PREMIX TO ACTIVE	
FROM TK 2	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLD R&I R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2189	2246	57	15	14
			5/60	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13500	152	85	152	85

REDUCED PUMP SPEED: 2400 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2175	5.3	79
2202	6.6	60.6
2221	5.8	60.9
2230	5.6	60.7

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1	2	DRLG 311mm HOLE F/2189m - 2193m
09:00	09:15	¼	21	SAFETY MEETING WITH CREW
09:15	18:45	9½	2	DRILL 311mm HOLE F/2193m - 2246m
18:45	19:00	¼	7	R/S FOR LOOSE PIPE RAMP F/FLOOR BOSS TO
19:00	20:00	1	10	SURVEYS FOR ABOVE DRILLING

NOTES: ✓BRAKES, LUBRICATE, CHAIN SAVER, CHAIN ADJUST, BOILER FLOW TO MIX 11:00, 15:00, 19:00

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	12	7.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	9
SIZE (mm)	311
IADC CODE	5 1 7 B
MFG.	SEC
TYPE	G584F
SERIAL NO.	730870
JETS (mm)	2x9, 1x11-175
DEPTH OUT (m)	
DEPTH IN (m)	2133
TOTAL METRES DRILLED (m)	113
TOTAL HOURS RUN	18½

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr. — 6.1

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	1800
DENSITY kg/m³	1025
FUNNEL VIS. - (S/L)	80
W.L. (cm³)	
pH	
	111.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLD R&I R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11790	152	85	152	85

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	21:00	1	5	CIRC. BTMS UP PRIOR TO TRIP
21:00	23:45	2¾	6	FLOWED 2245m, PUMP DRY HOLE F/ 2134m: 11 20m, 74m, 23m, 4 STANDS OF 15 m/TRIP STAND OUT
23:45	24:00	¼	9	R/S SERVICE, TOP DRIVE

NOTES: ✓CROWN SAVER, BEARING LOOSE, CHAIN ADJUST,

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4					

FOLD HERE →

111070

LICENCE NO.: SDL-99

WELL NAME AND NO.: CHEVRON ETAL LINDO K-09, 60°30'N, 123° 30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING LTD.

SURFACE LOCATION:

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 93 | MONTH 03 | DAY 03

RIG NO. 48

FUEL @ 8:00

RIG 95 | JOKER 32

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	101.2	BUTRESS	K55	36	693.60	7.31	701.30

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5" XH	121	9-P100	NATIONAL	254
127	29	X2	106	152	5" XH	133	9-P100	NATIONAL	254
127	38	X3	101	156	5" XH	16	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL ITEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26	TOTALS
MORN.					4	1	0½	¼			¼											PULL WEAR BUSHING					8
DAY																										
EVE.																										
TOTAL																										

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP	84	TOP	84
MIDDLE	84	MIDDLE	84
BOTTOM	84	BOTTOM	84

RENTALS/SERVICES

	MORN	DAY	EVE
SECURITY BOILER	8	12	4
#3 PUMP	8	12	4
#2 BOILER FUEL 19 L			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MISSING/FS		41 m
1/1	MISSING/FS		1026/56 m
1/1	MONEL/HOS		842/99 m
1	MONEL		9.34 m
5	DC	228	45.96 m
1	TAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA =		221.55 m
99	E-DP		1743.50 m
33 x 30	D.P.	STANDS	947.94 m
2 x 32	D.P.	SINGLES	19.16 m
	KELLY DOWN		1.71 m
	TOTAL		2133.86 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	8
SIZE (mm)	311
IADC CODE	5 1 7
MFG.	HUGHES
TYPE	GT-20
SERIAL NO.	W104M
JETS (mm)	2-18/1-12.5
DEPTH OUT (m)	2133
DEPTH IN (m)	1820
TOTAL METRES DRILLED (m)	313
TOTAL HOURS RUN	42 3/4

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
3	3	ET	H	F	I	CI	TD	59

HOLE CONDITION

HOLE DRAG 1-3↑ 0-2↓

TORQUE AT BOTTOM 5200 - 5600

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1015		
FUNNEL VIS. - (S/L)	83		
W.L. (cm³)			
pH			
PVT m³	118.9		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 12 + 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1015	1010	1990
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2114	2133	19	15 / 100	13/14 / 14/16

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11700	152	85	152	85

REDUCED PUMP SPEED

2100 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2057.4	3.7	79.3
2116.2	3.8	90.3

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0000	0400	4	2	DRLG 311mm HOLE W/MOTOR FR: 2114m - 2133m.
0400	0415	1/4	10	SURVEYS FOR TRIP DRLNG.
0415	0430	1/4	7	RIG SERVICE FOR TRIPPING @ MAIN CROWN
0430	0500	1/2	5	CIRC. BTMS UP
0500	0800	3	6	PULL OUT OF HOLE FLOW @ 2130., 2026, 1027m. 15min Each

NOTES: CROWN SAVER, BLEEDER LINKAGE, CLAMP & ANCHOR. BOILER BLOW DOWN @ 1:00, 4:30.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MISSING/FS		41 m
1/1	MISSING/FS		1026/56 m
1/1	MONEL/HOS		842/99 m
1	MONEL		9.34 m
5	DC	228	45.96 m
1	TAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA =		221.55 m
99	E-DP		1743.50 m
33 x 30	D.P.	STANDS	947.94 m
2 x 32	D.P.	SINGLES	19.16 m
	KELLY DOWN		1.71 m
	TOTAL		2133.86 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	9
SIZE (mm)	311
IADC CODE	5 1 7 B
MFG.	SECURITY
TYPE	S86AF
SERIAL NO.	730870
JETS (mm)	2x18/1x12/1x15
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	TRIP RECORD		
DENSITY kg/m³	MEAS. 1198		
FUNNEL VIS. - (S/L)	CALC. 1195		
W.L. (cm³)	DIFF. .05		
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	1145	3¾	6	P.O.O.H. FLOW @ 200m. HWDP 4 OUT OF HOLE
1145	1200	¼	7	R/S FUNC. BLIND RAMS 1/min. 4 FLOOR VLVS 6
1200	1230	½	20	PULL WEAR BUSHING & SET TEST PLUG
1230	1630	4	15	PRESS TEST CHOKE LINES, BLIND RAMS, UPPER & LOWER PIPE RAMS, ALL VLVS & HYDRAULIC VALVE MANIFOLD 1750 PSI (12100 kPa)
1630				MAKE UP FUNC. TEST ACCUMULATOR
1630	1715	¾	20	MAKE UP BIT #9, SCRIBE MOTOR & PICK UP M.W.D.
1715	2000	2¾	6	R.I.H. TES M.W.D. @ 795m
				Transfer 26.5 m³ Diesle Fuel From Tank Farm to Rig Tank Start = 84m. Stop = 200cms

NOTES: BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR. BOILER BLOW DOWN @ 9:00, 13:00, 17:00 HRS

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MISSING/FS		41 m
1/1	MISSING/FS		1026/56 m
1/1	MONEL/HOS		842/99 m
1	MONEL		9.34 m
5	DC	228	45.96 m
1	TAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA =		221.55 m
99	E-DP		1743.50 m
33 x 30	D.P.	STANDS	947.94 m
2 x 32	D.P.	SINGLES	19.16 m
	KELLY DOWN		6.85 m
	TOTAL		2139 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	9
SIZE (mm)	311
IADC CODE	5 1 7 B
MFG.	SEC.
TYPE	S86AF
SERIAL NO.	730870
JETS (mm)	2-18/1-12.5
DEPTH OUT (m)	—
DEPTH IN (m)	2133
TOTAL METRES DRILLED (m)	6
TOTAL HOURS RUN	3/4

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG 2-4↑ 1-3↓

TORQUE AT BOTTOM —

FILL ON BOTTOM (m) Ø

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	23:00		
DENSITY kg/m³	1015		
FUNNEL VIS. - (S/L)	86		
W.L. (cm³)			
pH			
	113.4		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2133	2139	6	15 / 100	15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13400 / 15500	152	85	152	85

REDUCED PUMP SPEED

2500 @ 62 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
2300	2345	1¾	6	RUN IN HOLE TO ~~BOTT~~. FILL @ 1165m FLOW @ BREAK CIRC. @ 2085m FLOW & BEGIN CIRC.
2145	2300	1¼	5	WASH TO BTM FR: 2085m - 2133m NO FILL CIRC. OUT TRIP GAS.
2300	2315	¼	21	SAFETY MEETING / OPERATIONS MEETING.
2315	2400	¾	2	DRLG 311mm HOLE W/MOTOR FR: 2133m - 2139m

NOTES: CROWN SAVER, BLEEDER & LINKAGE, CLAMP & ANCHOR. BOILER BLOW DOWN @ 2230, 2245

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	225			2080

FOLD HERE →

111069

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ET AL LINDA K29,60°30'N 123°30'W

OPERATOR: HUSKY CANADA RESOURCES LTD

CONTRACTOR: ARIEN DRILLING LTD.

SURFACE LOCATION: K29.60°30'N.123°30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H'S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 03 | DAY 07

RIG NO. 48 RE

FUEL @ 8:00

RIG 137 | BOILER 32

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	107.2	BURGESS	K-55	36	693.60	7.31	701.30

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5" XH	121	9-P100	NATIONAL	234
127	27	X	106	152	5" XH	133	9 P100	NATIONAL	234
127	38	X	101	156	5" XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 FLAIR	24 BOP DRILL	25	26
	MORN.		7¼					1/4			1/2											1/4	1/4	1/4		
	DAY		10¼					1/4			3/4											1/4	1/4	1/4		
	EVE.		3¼					1/4														1/4	1/4	1/4		
	TOTAL																									

TOTALS

1	8
2	12

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP		TOP	
MIDDLE	84	MIDDLE	84
BOTTOM	84	BOTTOM	84

RENTALS/SERVICES

	MORN.	DAY	EVE.
SECOND BOILER	8	12	4
#3 PUMP	8	12	4
BOILER #2 FUEL @ 06:00 2.1%			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			41 m
1/1	MOTOR		10.66/5.6 m
1/1	MWD/ E.W.S.		8.42/7.99 m
1	MONEL		9.34 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	29.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E-DP		943.50 m
32	D.P.	STANDS	861.75 m
1	D.P.	SINGLES	9.67 m
	KELLY DOWN		m
	TOTAL		2080 m
WT. OF DC			1000 daN
WT. OF STRING		89	1000 daN

BIT RECORD

BIT NO.	8
SIZE (mm)	311
IADC CODE	5 1 7
MFG.	HUGHES
TYPE	GT-20
SERIAL NO.	4104M
JETS (mm)	2x19, 1-175
DEPTH OUT (m)	
DEPTH IN (m)	1820
TOTAL METRES DRILLED (m)	260
TOTAL HOURS RUN	35½

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG ↑1-3 ↓0-2

TORQUE AT BOTTOM 4620 - 5900

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1000	10:10	1005
FUNNEL VIS. - (S/L)	84	80	83
W.L. (cm³)			
pH			
PVT m³	121.4	120.1	118.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Mica fine	8 SX S

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1223

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1000	995	1890

METRES DRILLED

FROM	TO	DRD/RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1985	2026	41	15	13/14
			100	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10600	152	85	152	85
12000				

REDUCED PUMP SPEED

1900 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1972.5	3.8	62.3
2001.2	3.7	56.1

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
06:00	07:15	7¼	2	DRILL 311 mm HOLE F/1985m - 2026m.
07:15	07:30	¼	9	RIG SERVICE FCN. TOP DRIVE @ FLOOR. GOOD.
07:30	08:00	½	10	SURVEYS FOR ABOVE DRILLING

NOTES: CROWN SAVER, BRAKES & LINKAGE, CLAMP & ANCHOR. BOP DRILL DAYLIGHT 2A:00 & 4:00 & 7:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225			

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	MOTOR/ E.S.		10.66/5.6 m
1/1	MWD/ H.O.S.		8.42/7.99 m
1	MONEL		9.34 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		107.71 m
	BHA		221.55 m
99	E-DP		943.50 m
32	D.P.	STANDS	919.20 m
X	D.P.	SINGLES	9.58 m
	KELLY DOWN		.75 m
	TOTAL		2085 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	8
SIZE (mm)	311
IADC CODE	5 1 7
MFG.	HUGHES
TYPE	GT-20
SERIAL NO.	4104M
JETS (mm)	2x19/1x125
DEPTH OUT (m)	
DEPTH IN (m)	1820
TOTAL METRES DRILLED (m)	265
TOTAL HOURS RUN	45 3/4

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 1-3 1-3

TORQUE AT BOTTOM 5100 - 5600

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	10:00	14:00	18:00
DENSITY kg/m³	1010	1015	1025
FUNNEL VIS. - (S/L)	78	80	81
W.L. (cm³)			
pH			
PVT	117.0	114.5	111.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
DRILTREAT	6 PAIL

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1203

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	1015	1000	1210

METRES DRILLED

FROM	TO	DRD/RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2026	2085	59	15	13/14
			100	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10600	152	85	152	85
11700				

REDUCED PUMP SPEED

1700 @ @ 43

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2030	3.4	63.6
2049	3.4	57.5
2058	3.5	61.7

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:45	¾	2	DRILL 311 mm HOLE F/2026m - 2050m
08:45	09:00	¼	22	FLAIR ✓
09:00	11:00	2	2	DRILL F/2050m - 2074m
11:00	11:15	¼	21	SAFETY / OPERATIONS MEETING
11:15	11:45	½	2	DRILL F/2074m - 2085m
11:45	12:00	¼	23	BOP DRILL REVERSER CROWN POSITION 63 SEC
12:00	17:15	5¼	2	DRILL F/2085m - 2174m
17:15	17:30	¼	7	R/S FUNC ANNULAR F/FLOOR 14 SEC ✓
17:30	17:45	¼	2	DRILL F/2174m - 2185m
17:45	20:00	2¼	10	SURVEYS FOR ABOVE DRILLING

NOTES: CROWN SAVER, BRAKES, LINKAGE, CLAMP, ANCHOR. GREASED CROWN & BLOCKS. BOILER BLOW DOWN @ 10:00, 19:00, 18:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.0	225°C		BOP DRILL	

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
1/1	MOTOR/ E.S.		10.66/5.6 m
1/1	MWD/ H.O.S.		8.42/7.99 m
1	MONEL		9.34 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		107.71 m
	BHA =		221.55 m
99	E-DP		943.50 m
33	D.P.	STANDS	947.94 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		2112.99 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	8
SIZE (mm)	311
IADC CODE	5 1 7
MFG.	HUGHES
TYPE	GT-20
SERIAL NO.	4104M
JETS (mm)	2x19/1x125
DEPTH OUT (m)	—
DEPTH IN (m)	1820
TOTAL METRES DRILLED (m)	291
TOTAL HOURS RUN	49

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 1 & 3 1 & 2

TORQUE AT BOTTOM 5600 FT-LBS

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	21:00	24:00	
DENSITY kg/m³	1020	1015	
FUNNEL VIS. - (S/L)	86	84	
W.L. (cm³)			
pH			
RVT m³	109.2	119.7	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Invert	10 m³
INVERT	25 m³
FROM 400 BBL TO PREMIX	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1203

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1020	1010	1925

METRES DRILLED

FROM	TO	DRD/RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2085	2114	26	15	10/11
			100	13/14

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10600	152	85	152	85
11700				

REDUCED PUMP SPEED

2100 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2077.80	3.7	75.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	¼	21	SAFETY / OPERATIONS MEETING
20:15	20:30	¼	23	BOP DRILL & FLAIR DRILL WELL SEC. 90 SEC.
20:30	23:45	3¼	2	DRILL 311mm HOLE W/MOTOR. F/2085m - 2114m.
23:45	23:55	¼	7	RIG SERVICE FCN TOP DRIVE @ FLOOR. GOOD.
23:55	24:00	¼	10	SURVEYS FOR ABOVE DRILLING.

NOTES: CROWN SAVER, BRAKES & LINKAGE, CLAMP & ANCHOR. BOILER BLOW DOWN @

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.0	224°		BOP DRILL	

EVENING TOUR

FOLD HERE →

111068

LICENCE NO.	WELL NAME AND NO.
SOL 99	CHEVRON ATAL LIARD K-29 60°30'N 123°30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING.
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60°30'N 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY
99	03	01

RIG NO. 48

FUEL @ 8:00

RIG 105cm BOILER #2 131cm

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	104.2	BUTRESS	K-55	56	693.60	7.31	701.30

WEATHER

TEMPERATURE	-23cm °C
CURRENT CONDITIONS	CLR
WIND DIRECTION	2600
ROAD	BSS

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	152	5"XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	60	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.		7½					¼			¼																
DAY																										
EVE.		7					¼			½											1¼					
TOTAL																										

TOTALS

	8
	8

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP 84	TOP 84
MIDDLE 84	MIDDLE 84
BOTTOM 84	BOTTOM 84

RENTALS/SERVICES

	MORN	DAY	EVE
SECOND BOILER	8	12	4
#3 PUMP	8	12	4

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MACH F.S.		1.41 m
1/1	MODEL/HUGS	8.0	1866.56m
1/1	MODEL/HUGS	8.0	1899.90m
1	MODEL		934 m
5	D.C.	228	45.96m
1	JAR		7.08m
3	D.C.	228	27.59m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55m
99	E-D.P.		943.50m
25	X2 D.P.	STANDS	717.99 m
X	D.P.	SINGLES	9.59 m
SINGLE	KELLY DOWN		2.37 m
	TOTAL		1895.00 m
WT. OF DC		1000 daN	
WT. OF STRING	87	1000 daN	

BIT RECORD

BIT NO.	8
SIZE (mm)	311
IADC CODE	517
MFG.	HUGHES
TYPE	GT20
SERIAL NO.	WJ10YM
JETS (mm)	2-19/1-175
DEPTH OUT (m)	—
DEPTH IN (m)	1820
TOTAL METRES DRILLED (m)	75
TOTAL HOURS RUN	14

CUTTING STRUCTURE

T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	2-3 ↑ 0-3↓
TORQUE AT BOTTOM	H379 - [illegible] 5263
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	1000	1000	1000
FUNNEL VIS. - (S/L)	85	86	87
W.L. (cm³)			
pH			
PVT.	109.3	108.5	107.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE #2 #3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1000	990	1660
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED FOR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1853	1895	42	R 14	14/15
			S 100	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. #3 LINER SIZE (mm)	PUMP NO. #3 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
12460	152	85	152	85

REDUCED PUMP SPEED

2400 @ 61 @ SLOW

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1857.45	4.5	699

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	03:15	3¼	2	DRILL 311mm HOLE W/MOTOR F/: 1853-1873
03:15	03:30	¼	7	R/S CLOSE BTM PIPE RAMS C MAN O/C CSG
03:30	07:45	4¼	2	DRILL 311mm HOLE W/MOTOR F/: 1873-1895
07:45	08:00	¼	10	SURVEYS FOR ABOVE DRILLING.

NOTES
✓CROWN SAVER / BRAKE LINKAGE ✓ KAST LINE CLAMP / ANCHOR.
PRE TOUR WALK AROUND CHECK

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225°C	90,000		2181

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MACH F.S.		1.41 m
1/1	MODEL F.S.		1044/56m
1/1	MODEL/HUGS	8.0	1899.99m
1	MODEL		9.34 m
5	DC	228	45.96 m
1	JAR		7.08 m
3	DC	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55m
99	E-DP		943.50m
26	X2 D.P.	STANDS	746.76m
2	X2 D.P.	SINGLES	19.88m
	KELLY DOWN		m
	TOTAL		1937 m
WT. OF DC		1000 daN	
WT. OF STRING	88	1000 daN	

BIT RECORD

BIT NO.	8
SIZE (mm)	311
IADC CODE	517
MFG.	HUGHES
TYPE	GT20
SERIAL NO.	WJ10YM
JETS (mm)	2-19/1-175
DEPTH OUT (m)	—
DEPTH IN (m)	1820
TOTAL METRES DRILLED (m)	117
TOTAL HOURS RUN	21¼

CUTTING STRUCTURE

T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	2-3 ↑ 1-3 ↓
TORQUE AT BOTTOM	4200 - 5000 ft/lb.
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	995	~~990~~ 995	995
FUNNEL VIS. - (S/L)	85	80	78
W.L. (cm³)			
pH			
PVT m³	106.8	127	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
INVERT	20 m³
INVERT	40 m³ FROM
400 TO	PREMIX
16 BAGS	MICA FINE
5 PAILS	VERSATHIN

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE #2 #3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	995	985	2005
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED FOR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1895	1937	42	R 15	14/15
			S 100	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. #3 LINER SIZE (mm)	PUMP NO. #3 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13100	152	85	152	85

REDUCED PUMP SPEED

1900 @ 62 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1886.2	4.4	72.3
1915	4.2	73.3

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
06:00	15:15	7¼	2	DRILL 311mm HOLE F/ 1895m - 1937m.
15:15	15:30	¼	7	R/S SERVICE FLOOR, HYDRIL @ MAIN HOSE S/S
15:30	16:00	½	10	SURVEYS FOR ABOVE DRILLING.

NOTES
✓CROWN SAVER, BRAKE LINKAGE, CLAMPS, ANCHOR.
BOILER BLOWDOWN @ 900, 1300, 1500

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225°C	84,000		2150

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1/1	MODEL F.S.		1044/56m
1/1	MODEL/HUGS	8.0	BHA/.99m
1	MODEL		9.34 m
5	DC	228	45.96 m
	JAR		7.08 m
3	DC	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA		221.55m
91	E-DP		943.50m
78	X2 D.P.	STANDS	809.28 m
XX	X2 D.P.	SINGLES	19.17 m
	KELLY DOWN		6.09 m
	TOTAL		1985 m
WT. OF DC		1000 daN	
WT. OF STRING	87	1000 daN	

BIT RECORD

BIT NO.	8
SIZE (mm)	311
IADC CODE	517
MFG.	HUGHES
TYPE	GT20
SERIAL NO.	W10YM
JETS (mm)	2/19/1/175
DEPTH OUT (m)	—
DEPTH IN (m)	1820
TOTAL METRES DRILLED (m)	165
TOTAL HOURS RUN	28¼

CUTTING STRUCTURE

T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	2-4↑ 1-3↓
TORQUE AT BOTTOM	4800 - 5100
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	17:00	20:00	23:00
DENSITY kg/m³	1010	1010	1010
FUNNEL VIS. - (S/L)	73	80	77
W.L. (cm³)			
pH			
PVT	126.6	125.7	122.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE #2 #3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
3	1010	1000	1010
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED FOR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1937	1985	48	15	14/15
			100	14/15

CIRCULATION PRESSURE (kPa)	PUMP NO. #3 LINER SIZE (mm)	PUMP NO. #3 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13200	152	85	152	85

REDUCED PUMP SPEED

1600 @ @ 42

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1943.9	3.7	70.9
1953	3.8	70.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:45	¾	2	DRILL 311mm HOLE F/1937m - 1943m
16:45	17:00	¼	21	SAFETY/OPERATIONS MEETING
17:00	17:15	¼	2	DRILL F/1943m - 1959m
17:15	17:30	¼	7	R/S FUNC TOP PIPE RAMS F/MAN HOSE S/S
17:30	17:45	¼	10	SURVEY @ 1943m
17:45	23:45	4	2	DRILL F/1959m - 1985m
23:45	24:00	¼	10	SURVEY

NOTES
✓CAVES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR
BOILER BLOWDOWN

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225		SAFETY/OPERATIONS	2150

FOLD HERE →

111067

LICENCE NO.: SDL 89 | WELL NAME AND NO.: CHEVRON ETAL LINCO K-29 60° 20' N 123° 30' W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 20' N 123° 30' W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 02 | DAY 28 | RIG NO. #8

FUEL @ 8:00

RIG 139 m³ | BOILER 62 m³

WEATHER

TEMPERATURE	33cm °C
CURRENT CONDITIONS	1971
WIND DIRECTION	
ROAD	S-556137

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.34	101.2	B.J. TRUSS	K-55	56	693.60	7.31	701.30

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5" XH	121	9-P-100	NATIONAL	235
	127	29	X2	106	152	5" XH	133	9-P-100	NATIONAL	235
	127	38	X3	101	156	5" XH	160	F-1000	ENSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV SURVEY	12 WIRE LINE LOGS	13 RUN / CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		3½			1	3¼	¼																	
	DAY		3	1¾			6	¼		3¼											¼	1¼			
	EVE.		3½					¼			¼														
	TOTAL		10	1¾		1	9¾	3/4		3¼	¼										½	¾			

TOTALS

	8
	12
	4
	24

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP 84 | TOP 84

MIDDLE 84 | MIDDLE 84

BOTTOM 84 | BOTTOM 84

RENTALS/SERVICES

	MORN.	DAY	EVE.
SECOND BOILER	8	12	4
#3 PUMP	8	12	4

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MONEL/FS.		41 m
1	MONEL/H.S.		9.42/9.83 m
1	MONEL		9.34 m
5	D.C.	228	45.96 m
1	SAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP	127	109.71 m
	BHA		221.55 m
99	E2-D.P.		943.50 m
22	x2 D.P.	STANDS	631.81 m
XX	D.P.	SINGLES	19.14 m
STAND	KELLY DOWN		4.00 m
	TOTAL		1820.00 m
WT. OF DC			1000 daN
WT. OF STRING		986	1000 daN

BIT RECORD

BIT NO.	7
SIZE (mm)	311
IADC CODE	S 3 7 B
MFG.	SECURITY
TYPE	S86F
SERIAL NO.	725280
JETS (mm)	3-19
DEPTH OUT (m)	1820
DEPTH IN (m)	1518
TOTAL METRES DRILLED (m)	302
TOTAL HOURS RUN	42

CUTTING STRUCTURE: T1 | To | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 2-3T 2-3T

TORQUE AT BOTTOM 4900 - 6820

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	950	990	T
FUNNEL VIS. - (S/L)	71	82	R
W.L. (cm³)			
pH			I
PVT	119.8	118.1	P

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
VG. 69	40 SX
LIME	20 SX
VERSA HRP	1 ABL
BARITE	35 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	990	980	1140
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DEV. SURV. RUN CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1803	1820	17	R 15	8/12
			S 100	10/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
28-10400 DUB-13200	152	90	152	80

REDUCED PUMP SPEED

3000 @ SLOW @ 61

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:45	2¾	2	DRLG 311mm HOLE W/MOTOR FR: 1803-1816
02:45	03:00	¼	7	R/S CLOSE TOP PIPE RAMS & FLOW O/C SLOW
03:00	03:45	¾	2	DRLG 311mm HOLE W/MOTOR: 1816-1820
03:45	04:45	1	5	CIRCULATE BOTTOMS UP & SAMPLE.
04:45	08:00	3¼	6	FLOW CHK / PUMP PILL / HOIST 5 STDS. / FLOW CHK 30 STDS

NOTES: CROWN SAVER ✓ BRAKE LINKAGE ✓ FAST LINE CHAIN ✓ A.M. MEETING. Boiler Blown Down @ 0100, 0300, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	11	225°C		LOOK OUT PLANNING	

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	STABILIZER		41 m
1	MONEL/H.S.		8.40/9.36 m
1	MONEL		9.34 m
5	D.C.	228	45.96 m
1	SAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E2-D.P.		943.50 m
23	D.P.	STANDS	640.51 m
1	D.P.	SINGLES	9.57 m
	KELLY DOWN		m
	TOTAL		1835.13 m
WT. OF DC			1000 daN
WT. OF STRING		986	1000 daN

BIT RECORD

BIT NO.	7	8
SIZE (mm)	311	311
IADC CODE	S 3 7 B	
MFG.	SEC.	HUGHES
TYPE	GS86F	GT-20
SERIAL NO.	725280	W104M
JETS (mm)	3X19	2x19/1-175
DEPTH OUT (m)	1820	
DEPTH IN (m)	1518	1820
TOTAL METRES DRILLED (m)	302	15
TOTAL HOURS RUN	42	3

CUTTING STRUCTURE: T1 | To | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

3	8	BT	A	F	8mm	ST	PR	7.2		

HOLE CONDITION

HOLE DRAG 2-3T 1-2T

TORQUE AT BOTTOM 4600 - 4400

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	T	18:00	
DENSITY kg/m³		985	
FUNNEL VIS. - (S/L)	R	85	
W.L. (cm³)			
pH	I		
PVT m³	P	114.2	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2+3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	985	975	1560
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DEV. SURV. RUN CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1820	1820	40	R	0/1
1820	1835	95	15	12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
28-10400 DUB-13200	152	85	152	85

REDUCED PUMP SPEED

FLOW @ 61 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
MULE FILE	CALC.: 10.82	
	MEAS.: 11.31	
	DIF.: 4.9	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:45	1¾	6	PULL OUT SLOW @ BOTTOM OF HOLE USING FAN
09:45	10:00	¼	20	✓MWD, CHANGE BIT, FIX BUNGS & FLOW LINE MANIF.
10:00	12:15	2¼	6	MAKE UP BIT + RUN IN HOLE FLOW @ 302, 74
12:15	12:30	¼	20	TEST MWD @ 740m.
12:30	13:15	¾	9	SLIP & CUT 18m.
13:15	13:30	¼	7	RIG SERVICE FOR, BTM PIPE @ FLOOR, CLOSE C/O
13:30	13:45	¼	21	SAFETY MEETING.
13:45	15:45	2	6	RUN IN HOLE TO 1780m.
15:45	17:00	1¼	3	BREAK IN BIT m. FR: 1780m - 1819 m FROM: 1820
17:00	20:00	3	2	DRLG 311mm HOLE W/MOTOR FR: 1820m - 1835m

NOTES: CROWN SAVER, BRAKES & LINKAGE, CHAIN & ANCHOR. Boiler Blowdown @ 07:00, 13:00, 1800

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10	225			2280

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	STABILIZER		41 m
1	MONEL/H.S.		8.40/9.39 m
1	MONEL		9.34 m
5	D.C.	228	45.96 m
1	SAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E2-D.P.		943.50 m
23	x2 D.P.	STANDS	660.51 m
XX	D.P.	SINGLES	19.14 m
STAND	KELLY DOWN		4.30 m
	TOTAL		1853.00 m
WT. OF DC			1000 daN
WT. OF STRING		986	1000 daN

BIT RECORD

BIT NO.	8
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT20
SERIAL NO.	W104M
JETS (mm)	2-19/1-175
DEPTH OUT (m)	
DEPTH IN (m)	1820
TOTAL METRES DRILLED (m)	33
TOTAL HOURS RUN	6½

CUTTING STRUCTURE: T1 | To | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 2-3T 0-3T

TORQUE AT BOTTOM 4300 - 11687

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	20:00	22:00	24:00
DENSITY kg/m³	995	1000	
FUNNEL VIS. - (S/L)	96	86	
W.L. (cm³)			
pH			
PVT	112.9	111.7	111.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2+3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4			
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DEV. SURV. RUN CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1835	1853	18	R 14	13/15
			S 100	12/13

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
28-10400 DUB-13270	152	85	152	85

REDUCED PUMP SPEED

2200 @ SLOW @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1819.13	4.8°	59.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:00	2	2	DRLG 311mm HOLE W/MOTOR FR: 1835-1844
23:00	23:15	¼	7	R/S CLOSE ANNULAR FR: FLOW O/C 145sec.
23:15	23:45	1½	2	DRLG 311mm HOLE W/MOTOR FR: 1844-1853
23:45	24:00	¼	10	SURVEY FOR ABOVE DRILLING.

NOTES: ✓ CROWN SAVER ✓ FAST LINE CLAMP ✓ ANCHOR ✓ CROWN SAVER. Boiler Blown Down @ 2300

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10	225°C	84,000		2181

EVENING TOUR

FOLD HERE →

111066

LICENCE NO.	WELL NAME AND NO.
SDL 99	CHEVRON ETAL LIARD K-29 60° 30'N 123° 30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES LTD.	AKITA DRILLING LTD.
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60° 30'N 123° 30'W.	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flawless & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY
99	02	27

RIG NO. 48

FUEL @ 8:00

RIG 1176 BOILER 1175

WEATHER

TEMPERATURE	-33°C
CURRENT CONDITIONS	11921
WIND DIRECTION	
ROADS	552507

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	101.2	BUTRESS	K-55	56	693.60	7.31	701.3

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	152	5"XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	160	P-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26	TOTALS
MORN.			7¼					¼			½															8
DAY			11					¼			¾															12
EVE.			2½					¼			¼															4
TOTAL			20¾					1¼			1½															24

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
84	84
MIDDLE 84	MIDDLE 84
BOTTOM 84	BOTTOM 84

RENTALS/SERVICES

	MORN.	DAY	EVE.
SECOND BOILER	8	12	4
#3 PUMP	8	12	4

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	PDC/TCI F.S.	311	1046/.56 m
1/1	Motor/TCI H.S.	241	241/.99 m
1	Monel		9.34 m
5	D.C.	228	45.96 m
1	JAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E2-D.P.		943.50 m
18	X3 D.P.	STANDS	516.87 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		1641.94 m
WT. OF DC			1000 daN
WT. OF STRING		81	1000 daN

BIT RECORD

BIT NO.	7
SIZE (mm)	311
IADC CODE	537B
MFG.	SECURITY
TYPE	GS86F
SERIAL NO.	725280
JETS (mm)	3-19.
DEPTH OUT (m)	
DEPTH IN (m)	1518
TOTAL METRES DRILLED (m)	163
TOTAL HOURS RUN	24

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	1-2T 2-3T
TORQUE AT BOTTOM	4760 - 5417
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	970	975	980
FUNNEL VIS. - (S/L)	67	67	71
W.L. (cm³)			
pH			
P.V.	146.7	145.5	144.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
XC 69	40 sx
LIME	20 sx
VERSA HRP	1 BBL
INVERT	15 m³ FROM
400 TO	PREMIX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2,3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	980	970	1730

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1614	1681	67	R 15	10/12
			S 100	10/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
0-3400 3400-10400 10400-12400	152	90	152	90

REDUCED PUMP SPEED

2000 @ SURFACE @ 62

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1627.60	5.2	60.2
1654.4	3.9	64.2

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	03:00	3	2	DRLG 311mm HOLE W/MOTOR FR: 1614-1643
03:00	03:15	¼	7	R/S CLOSE TOP P.R. RAMS @ MAN o/c SYS
03:15	07:30	4¼	2	DRLG 311mm HOLE W/MOTOR FR: 1643-1681
07:30	08:00	½	10	SURVEYS FOR ABOVE DRILLING.

NOTES

CROWN SAVER / BRAKE LINKAGE / FAST LINE CHAIN / ANCHOR.
BOILER BLOWN DOWN @ 0100, 0300, 0500, 0700

BOILER

HRS. RAN	ph	STACK TEMP.
8	105	210°C

MAXIMUM EXPERIENCED HOOKLOAD: 83000

SAFETY TOPIC:

M.A.C.P.: 2319

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	PDC/TCI F.S.	311	1046/.56 m
1/1	Motor/TCI H.S.	241	241/.99 m
1	Monel		9.34 m
5	D.C.	228	45.96 m
1	JARS		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E2-D.P.		943.50 m
21	X2 D.P.	STANDS	603.09 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		1768.14 m
WT. OF DC			1000 daN
WT. OF STRING		83	1000 daN

BIT RECORD

BIT NO.	7
SIZE (mm)	311
IADC CODE	537B
MFG.	SEC.
TYPE	GS86F
SERIAL NO.	725280
JETS (mm)	3-19
DEPTH OUT (m)	—
DEPTH IN (m)	1518
TOTAL METRES DRILLED (m)	241
TOTAL HOURS RUN	35

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	1-3T 1-3T
TORQUE AT BOTTOM	4600 - 5300
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	980	985	985
FUNNEL VIS. - (S/L)	70	69	68
W.L. (cm³)			
pH		Recalibrate & PVT	
PVT m³	143.4	113.2	114.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Invert	10 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2,3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	980	970	1680

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1681	1768	81	R 15	10/12
			S 100	10/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
12000	152	90	152	80

REDUCED PUMP SPEED

1500 @ @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1665.90	3.6	67.2
1675.50	3.7	66.1
1695.80	3.7	
1713.80	3.4	80.7
1753.20	5.1	63.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	19:00	11	2	DRLG 311mm HOLE W/MOTOR FR: 1681m - 1765m
19:00	19:15	1¼	7	R/S SERVICE RIG. HOOKED @ MAN DOOR o/o
19:15	23:00	3¾	10	SURVEYS FOR ABOVE DRILLING.

NOTES

CROWN SAVER, BRAKE LINKAGE, CHAIN & ANCHOR.
BOILER BLOWN DOWN @ 9:00, 13:00, 17:00

BOILER

HRS. RAN	ph	STACK TEMP.
12	105	225

MAXIMUM EXPERIENCED HOOKLOAD:

SAFETY TOPIC:

M.A.C.P.: 2080

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	PDC-C/F.S.	10.66	1046/.56 m
1/1	Motor/TCI H.S.	241	241/.99 m
1	Monel		9.34 m
5	D.C.	228	45.96 m
1	JAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.93 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E2-D.P.		943.50 m
22	X3 D.P.	STANDS	631.81 m
	D.P.	SINGLES	m
SINGLE	KELLY DOWN		6.14 m
	TOTAL		1803.00 m
WT. OF DC			1000 daN
WT. OF STRING		85	1000 daN

BIT RECORD

BIT NO.	7
SIZE (mm)	311
IADC CODE	537B
MFG.	SECURITY
TYPE	GS86F
SERIAL NO.	725280
JETS (mm)	3-19
DEPTH OUT (m)	—
DEPTH IN (m)	1518
TOTAL METRES DRILLED (m)	285
TOTAL HOURS RUN	38½

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	2-3T 2-3T
TORQUE AT BOTTOM	4917 - 6233
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	980	975	990
FUNNEL VIS. - (S/L)	71	64	80
W.L. (cm³)			
pH			
PVT m³	116.2	123.4	120.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
T	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2,3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	990	980	1635

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1768	1803	35	R 15	10/12
			S 100	10/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
0-3400 3400-10400 10400-12400	152	90	152	80

REDUCED PUMP SPEED

2200 @ 59 @ SURFACE

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1780.80	4.6	50.9

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	21:15	1¼	2	DRLG 311mm HOLE W/MOTOR FR: 1768-1787
21:15	21:30	¼	7	R/S CLOSE LOWER P.R. RAMS @ MAN DOOR o/c
21:30	23:45	2¼	2	DRLG 311mm HOLE W/MOTOR FR: 1787-1803
23:45	24:00	¼	10	SURVEY FOR ABOVE DRILLING.

NOTES

CROWN SAVER / BRAKE LINKAGE / FAST LINE CHAIN / ANCHOR.
BOILER BLOWN DOWN @ 2000, 2200

BOILER

HRS. RAN	ph	STACK TEMP.
4	105	210°C

MAXIMUM EXPERIENCED HOOKLOAD: 88,000

SAFETY TOPIC:

M.A.C.P.: 2319

FOLD HERE →

111065

LICENCE NO.:	WELL NAME AND NO.:
SDL99	CHEVRON ETAL LIARD K-29 60° 30'N 123° 30'W

OPERATOR:	CONTRACTOR:
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING.
SURFACE LOCATION:	UNIQUE ID.:
K-29 60° 30'N 123° 30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:
	[signature]

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial [initialed]
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial [initialed]
(3) H2S Signs Posted (if required)	Initial	Initial [initialed]
(4) Well License & Stick Diagram Posted	Initial	Initial [initialed]
(5) Flare Lines Staked	Initial	Initial [initialed]
(6) BOP Drills Performed	Initial	Initial [initialed]
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial [initialed]
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial [initialed]
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	02	26

RIG NO. 48

FUEL @ 8:00: RIG 122cm; BOILER #2 191cm

WEATHER

- TEMPERATURE -33 °C
- CURRENT CONDITIONS 10645
- WIND DIRECTION
- ROAD ACC - 551231

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.34	101.2	BUTRESS	K-55	56	693.60	7.31	701.3

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5" XH	121	9-P-100	NATIONAL	235
127	29	X2	106	152	5" XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5" XH	160	F-1000	EMSCO	254

TIME - HRS

CODE NO. / OPER.	1 Rig up & tear down	2 Drill actual	3 Reaming	4 Coring	5 Cond. mud & circ.	6 Trips	7 Rig service	8 Repair rig	9 Cut off drill line	10 Dev survey	11 Wire line logs	12 Run case & cement	13 Wait on cement	14 Nipple up B.O.P.	15 Test B.O.P.	16 Drill stem test	17 Plug back	18 Squeeze cement	19 Fishing	20 Dir. work	21 Safety mtg.	22	23	24	25	26	TOTALS
MORN.		2¼	4			1¼	¼			¼																	8
DAY		11¼					¼			½																	12
EVE.		3¼					¼			½																	4
TOTAL		16¾	4			1¼	¾			1¼																	24

SHALE SHAKER(S)

NO.	TYPE	
SCREENS CHANGED ☐ YES ☑ NO		
TOP 84	TOP 84	
MIDDLE 84	MIDDLE 84	
BOTTOM 84	BOTTOM 84	

RENTALS/SERVICES

	MORN.	DAY	EVE.
Second Boiler	8	12	4
3RD Pump	8	12	4

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	Motor / F.S.		10.66 / .56 m
1/1	Monel / HOS		8.42 / .99 m
1	Monel		9.34 m
5	D.C.	228	45.96 m
1	JAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E2 - D.P.		943.50 m
12	X2 D.P.	STANDS	344.52 m
X	D.P.	SINGLES	9.58 m
KELLY DOWN			m
TOTAL			1519.15 m
WT. OF DC			1000 daN
WT. OF STRING		80	1000 daN

BIT RECORD

BIT NO.	7	
SIZE (mm)	311	
IADC CODE	5 3 7 8	
MFG.	SECURITY	
TYPE	GS86F	
SERIAL NO.	725280	
JETS (mm)	3-19.	
DEPTH OUT (m)	—	
DEPTH IN (m)	1518	
TOTAL METRES DRILLED (m)	1	
TOTAL HOURS RUN	2¼	

CUTTING STRUCTURE T_1	T_0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

- HOLE DRAG
- TORQUE AT BOTTOM 3500-4100
- FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	960	955	950
FUNNEL VIS. - (S/L)	61	61	60
W.L. (cm³)			
pH			
PVT	142.2	141.9	142

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CLEAN UP	4 PAILS
-6 BUCKETS OF	
SHAKE TO SAND	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2+3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	950	940	2110

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1480	1518	R	10	6/2
1518	1519	D	10	2/3

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
9000	152	80	152	80

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1501.5	9°	52.6

DRILLER SIGNATURE: [signature]

TIME LOG / DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS
00:00	01:15	1¼	6	Run in TO 706 + CHECK MWD / Run in TO 1480
01:15	05:15	4	3	Ream in FR: 1480 - 1514 TAKE WT @ 1514m. Ream slow FR: 1514 - 1518
05:15	05:45	½	2	Drill 311mm Hole w/motor w/low RPm + Low WT.
05:45	06:00	¼	10	Survey
06:00	07:45	1¾	2	Drill w/low RPm + Low WT.
07:45	08:00	¼	7	R/S close Top Pipe Rams @ Floor O/C 6sec

NOTES: ✓ Crown Saver ✓ Brake Linkage ✓ Fast Line Clamp ✓ Anchor. Boiler Blown Down @ 0300, 0500, 0700

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	225°C			2456

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	Motor / F.S.		10.66 / .56 m
1/1	Monel / HOS.		8.42 / .99 m
1	Monel		9.34 m
5	DCs	228	45.96 m
1	JAR		7.08 m
3	DC.	228	27.59 m
1	X/O		.83 m
12	HWDP		109.71 m
	BHA:		221.55 m
99	E2 - DP		943.50 m
14	X2 D.P.	STANDS	401.94 m
2	X2 D.P.	SINGLES	19.17 m
KELLY DOWN			m
TOTAL			1586.16 m
WT. OF DC			1000 daN
WT. OF STRING		81	1000 daN

BIT RECORD

BIT NO.	7	
SIZE (mm)	311	
IADC CODE	5 3 7 B	
MFG.	SEC.	
TYPE	GS86F	
SERIAL NO.	725280	
JETS (mm)	3-19	
DEPTH OUT (m)	—	
DEPTH IN (m)	1518	
TOTAL METRES DRILLED (m)	68	
TOTAL HOURS RUN	13½	

CUTTING STRUCTURE T_1	T_0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

- HOLE DRAG 40-1 40-1
- TORQUE AT BOTTOM 4200 - 5000
- FILL ON BOTTOM (m) —

MUD RECORD — MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	0900	12 00	15 00
DENSITY kg/m³	960	965	970
FUNNEL VIS. - (S/L)	60	63	61
W.L. (cm³)			
pH			
PVT. m³	144.3	143.6	141.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drilling Bat.	1 Sx.
Chicken Grit	2 SxS.
Lime	20 SxS
VG-69	40 SxS
Versamul	1 Barrel
INVERT	10m³
PREmix	TO TANKS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2+3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	970	970	1510

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1519	1586	66	10/30	10/12.

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
9700 - 10400	152	80	152	90

REDUCED PUMP SPEED: 1800 @ 6 @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1512.7	8.5	55.0
1541.4	7.3	57.7

DRILLER SIGNATURE: [signature]

TIME LOG / DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS
08:00	0845	¾	2	Drill 311mm Hole W/motor. FR: 1519m - 1529
0845	0900	¼	10	Survey @ 1512m.
0900	0915	¼	7	Rig Service Func. Bim Pipes @ Floor 6sec %
0915	1445	5½	2	Drill 311mm Hole W/motor. FR: 1529m - 1556m.
1445	1500	¼	10	Survey @ 1541m.
1500	2000	5	2	Drill 311mm Hole W/motor. FR: 1556m - 1586m

NOTES: ✓ Crown Saver, Brakes + Linkage, Clamp Anchor. Boiler Blow Down @ 08:00, 11:00, 16:00

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225		ENVIRONMENTAL.	2387

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.41 m
1/1	Motor / F.S.		10.66 / .56 m
1/1	Monel / HOS		8.42 / .99 m
1	Monel		9.34 m
5	D.C.	228	45.96 m
1	JAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E-2 D.P.		943.50 m
15	X2 D.P.	STANDS	430.69 m
XX	D.P.	SINGLES	19.16 m
KELLY DOWN			m
TOTAL			1614.90 m
WT. OF DC			1000 daN
WT. OF STRING		81	1000 daN

BIT RECORD

BIT NO.	7	
SIZE (mm)	311	
IADC CODE	5 3 7 B	
MFG.	SECURITY	
TYPE	GS86F	
SERIAL NO.	725280	
JETS (mm)	3-19	
DEPTH OUT (m)	—	
DEPTH IN (m)	1518	
TOTAL METRES DRILLED (m)	96	
TOTAL HOURS RUN	16¾	

CUTTING STRUCTURE T_1	T_0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

- HOLE DRAG 1-2 T 2-3 T
- TORQUE AT BOTTOM 4200-5532
- FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	1800	2100	2400
DENSITY kg/m³	965	970	970
FUNNEL VIS. - (S/L)	62	61	62
W.L. (cm³)			
pH			
PVT m³	150.2	150.4	148.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2+3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	970	955	1810

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1586	1614	28	R/S	10/12
			S 100	10/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
9700-10000 / 10300-11500	152	90	152	80

REDUCED PUMP SPEED: 1900 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1570.2	6.3	56.4
1598.9	5.6	52.2

DRILLER SIGNATURE: [signature]

TIME LOG / DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	DETAILS
20:00	23:15	3¼	2	Drill 311mm Hole w/motor FR: 1586m 1614
23:15	23:30	¼	7	R/S Close Annular FR: Floor O/C 16sec.
23:30	24:00	½	10	Surveys For Above Drilling.

NOTES: ✓ Crown Saver ✓ Brake Linkage ✓ Fast Line Clamp ✓ Anchor. Boiler Blown Down @ 2030, 2330

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	8	225°C			2387

FOLD HERE →

111064

LICENCE NO.: SDL 89 | WELL NAME AND NO.: CHEVRON ETAL HARD K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING.

SURFACE LOCATION: K-29 60° 30'N 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 02 | DAY 25 | RIG NO. 48

FUEL @ 8:00 — RIG 1.53 | BOILER 2.03

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	325.34	101.2	BATTRESS	K55	56	693.60	7.31	701.2

WEATHER

TEMPERATURE	-33 °C
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	121	G-P-100	NATIONAL	235
127	29	X2	106	152	5"XH	133	G-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	22
1	MORN.						6														2		2
2	DAY		8			3/4 1 1/2	1/4														1/4		
3	EVE.																						
4	TOTAL																						

TOTALS

SHALE SHAKER(S)	RENTALS/SERVICES
NO. TYPE	
SCREENS CHANGED ☐ YES ☐ NO	
TOP 84 / MIDDLE 84 / BOTTOM 84	TOP 84 / MIDDLE 84 / BOTTOM 84

12.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1			.41
1	Motor 5.3	244	9.56
1	Motor H.S.	244	9.99
1	Mower		9.34
5	D.C.	228	45.96
1	SAR		7.08
3	D.C.	228	27.59
1	XO		.83
12	HWDP		109.71
	BHA		221.55
99	E-DP		943.50
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR#5	RR6							
SIZE (mm)	311	311							
IADC CODE		437							
MFG.	HYCALOG	REED							
TYPE	PDC	EHP43H							
SERIAL NO.	H44392	XL5158							
JETS (mm)	7-15/143	2-22/119							
DEPTH OUT (m)	1432								
DEPTH IN (m)	349	1432							
TOTAL METRES DRILLED (m)	93								
TOTAL HOURS RUN	10 3/4								

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
0	0	—	—	F	I	—	P	

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	2:00
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY | OVERFLOW DENSITY | UNDERFLOW DENSITY

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1432				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
MEAS - 9.44 m³		
CALC - 9.27 m³		
DIFF 1.17 m³		

DRILLER SIGNATURE

MORNING TOUR

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	04:00	4	6	PUMP PILL HOIST TO CHANGE BIT / FLOW CHECK FLOW @ HWDP FLOAT OF HWDP
04:00	06:00	2	20	CHANGE MWD, BIT + TRANSDUCER SUB. + INCREASE BEND IN MOTOR.
06:00	07:30	1 1/2	6	RUN IN W MOTOR. TEST MWD UNDERSHOT
07:30	07:45	1/4	7	RIG SERVICE FUNCTION (BLIND RAM OUT OF HOLE) (CLOSE TOOL FROM FLOOR)
07:45	09:00	1 1/4	22	HOLD B.O.P. DRILL W/CREW TRIPPING MUDS WELL SECURED IN 90 SECONDS HOUSE FLOOR DRILL.

NOTES: CREWS SAFE ✓ BRAKE LINKAGE ✓ FAST LINE CLAMP ✓ ANCHOR. BOILER BLOWDOWN @ 08:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
9	9	225°			2456

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1			.41
1	Motor 5.3	244	9.56
1	Motor H.S.	244	9.99
1	Mower		9.34
5	DCs	228	45.96
1	SAGS		7.08
3	DCs	228	27.59
1	Bell Subs		.83
12	HWDP		109.71
	BHA -		221.55
99	E - DP		943.50
12	D.P.	STANDS	314.52
2	D.P.	SINGLES	17.16
	KELLY DOWN		10.75
	TOTAL		1518
WT. OF DC			1000 daN
WT. OF STRING			80

BIT RECORD

BIT NO.	RR#6								
SIZE (mm)	311								
IADC CODE	437								
MFG.	REED								
TYPE	EHP43H								
SERIAL NO.	XL5158								
JETS (mm)	2-22/1-19								
DEPTH OUT (m)	1518								
DEPTH IN (m)	1432								
TOTAL METRES DRILLED (m)	86								
TOTAL HOURS RUN	8								

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
8	8	BT	A	F	6	CI	PR	10 3/4

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM: 3000 - 6000 Ft. lbs.
FILL ON BOTTOM (m): 0

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	960	965	963
FUNNEL VIS. - (S/L)	64	63	63
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Bar. Te	20 SxS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY | OVERFLOW DENSITY | UNDERFLOW DENSITY

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1432	1518	86	50	7/10
			50 est	14/10

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
12600	152	90	152	90

REDUCED PUMP SPEED

1900 | @ 62 | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1436.10	12°	62.9 azm
1455.3	10.9	56.7
1484	9.2	50.9

DRILLER SIGNATURE

DAY TOUR

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:15	1/4	8	TEST MWD
08:15	09:00	3/4	6	RUN IN HOLE TO 1414m.
09:00	09:15	1/4	5	BREAK CIRC + WASH TO 1514m. NO FILL.
09:15	17:15	8	2	DRLG + DRLG 311mm HOLE FR: 1432m - 1518m.
17:15	18:00	3/4	5	CIRC BTMS UP POOH TO TOH.
18:00	18:15	1/4	7	RIG SERVICE FUNCTION @ FLOOR. 1514m
18:15	20:00	1 3/4	6	PULL OUT OF HOLE. FLOW @ 1510m, 1382m

NOTES: CREWS SAFE, BRAKES LINKAGE, CROWN ANCHOR. BOILER BLOWDOWN @ 08:00, 12:00, 16:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9	225°			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	7								
SIZE (mm)	311								
IADC CODE									
MFG.	SECURITY								
TYPE	GS86F								
SERIAL NO.	725240								
JETS (mm)	3x9								
DEPTH OUT (m)									
DEPTH IN (m)									
TOTAL METRES DRILLED (m)									
TOTAL HOURS RUN									

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY | OVERFLOW DENSITY | UNDERFLOW DENSITY

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1518				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
CALC -	10.57 m³	
MEAS	10.32 m³	
DIFF	.20 m³	

DRILLER SIGNATURE

EVENING TOUR

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:00	2	6	FLOW CHECK HWDP HOIST FLOW / OUT OF HOLE
22:00	23:00	1	20	CHANGE OUT BIT + CHECK MWD.
23:00	23:45	3/4	6	RUN IN W/ BIT #7
23:45	24:00	1/4	7	R/S CLOSE BLIND RAMS OUT OF HOLE FR: MAIN + FLOOR O/C 65 SECONDS.

NOTES: CREWS SAFE ✓ BRAKE LINKAGE ✓ FAST LINE CLAMP ✓ ANCHOR.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

FOLD HERE →

111063

LICENCE NO.:	WELL NAME AND NO.:
SDL99	CHEVRON ETAL HIARD K-29-60° 30'N 123° 30'W.
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING.
SURFACE LOCATION:	**UNIQUE ID.:**
K-29-60° 30'N 123° 30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY
99	03	24

RIG NO.: 48

FUEL @ 8:00

RIG: 187 BOILER #: 2

WEATHER

TEMPERATURE	-33°C
CURRENT CONDITIONS	4345
WIND DIRECTION	
ROAD	5-8 5443

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.34	101.2	BUTRESS	K55	56	693.60	7.31	701.3
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5"XH	121	9-P-100	NATIONAL	335
	127	29	X3	106	152	5"XH	133	9-P-100	NATIONAL	335
	127	38	X3	101	176	5"XH	160	F-1000	ENSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 MWD	24 Pump P.11	25 Flow ✓	26
	MORN.		3¼				2	¼														2¼		¼		
	DAY		5			½	5	¼			½										½	1¼				
	EVE.		2½			½		¼			½														¼	
	TOTAL		10¾			1	7	¾			1										½	¼	2¼	¼	¼	

TOTALS	SHALE SHAKER(S)	RENTALS/SERVICES
8	NO. / TYPE	
12	SCREENS CHANGED ☑ YES ☐ NO	
4	TOP 84 / MIDDLE 84 / BOTTOM 84	TOP 84 / MIDDLE 84 / BOTTOM 84
24		

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR/F.S.	10.66	.41 m
1/1	MOTOR/H.O.S.	8.43	5.56 m
1/5	MOTOR/D.C.	9.34	4.99 m
1	SAR		45.98 m
3	D.C.		7.08 m
1	XO		27.59 m
12	HWDP		.83 m
	BHA		109.71 m
99	E3-DP		221.53 m
7	D.P. STANDS		943.50 m
	D.P. SINGLES		201.04 m
XX	KELLY DOWN		14.89 m
	TOTAL		1384.96 m
WT. OF DC		1000 daN	
WT. OF STRING	75	1000 daN	

BIT RECORD

BIT NO.	7RR
SIZE (mm)	311
IADC CODE	
MFG.	HYCALOG.
TYPE	PDC
SERIAL NO.	H44392
JETS (mm)	7-15.9/1-14.3
DEPTH OUT (m)	1384
DEPTH IN (m)	1349
TOTAL METRES DRILLED (m)	35
TOTAL HOURS RUN	3¼

CUTTING STRUCTURE: T, | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	960	960	955
FUNNEL VIS. - (S/L)	65	68	68
W.L. (cm³)			
pH			
PVT	85.5	148.1	149.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
LIME	25 SK
E WERT	45 m³
400 BBL	GAUGE
2 TANKS	WERE OFF ON
BASON	
BARITE	25 SK

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1, 2 & 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	955	930	1810
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1349	1384	35	50	5-6 5-3

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14000	152	105	152	105

REDUCED PUMP SPEED

2400 @ 70 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1359	7.9°	55.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:00	3	2	Cut Tool Faces + Drill 311mm - Hole w/Motor Fr: 1349-1380
02:00	04:00	1	22	Trouble Shoot MWD
04:00	04:15	¼	2	Drill 311mm - Hole w/Motor Fr. 1380-1384
04:15	04:30	¼	7	R/S Close Top Pipe Rams & Flow: O/C 45sec
04:30	05:45	1¼	22	Attempt To Survey
05:45	06:00	¼	23	Flow ✓ + Pump P.11
06:00	08:00	2	6	Hoist To Check MWD. Flow @ SS TOS

NOTES: Crown Saver / Brake Linkage + Foot Line Clean / Anchor. Pulled Blow Down Cat 0100, 0430, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
24	9	220°C			2456

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1384	1417	33	50	2/3

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
12000	152	105	152	105

REDUCED PUMP SPEED

1600 @ 60 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1388.10	9.8	62.5 AZM
1397.70	10.5	61.8 AZM

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:00	2	6	Hoist To Change Dir. MWD.
10:00	10:30	½	20	Handle Dir. Tools
10:30	10:45	¼	7	R/C Service Fan Belts + Brk Pads
10:45	12:45	2	6	Run In Hole To 740m.
12:45	13:00	¼	28	Ball Drop / Circ Down
13:00	13:15	¼	5	Break Circ. + Test MWD
13:15	14:15	1	6	Run In Hole To 1365m.
14:15	14:30	¼	5	Break Circ. + Wash To Btm. 1m Fill
14:30	19:30	5	2	Drill 311mm Hole Fr: 1384-1417
19:30	20:00	½	10	Surveys For Hour Drilling.

NOTES: ✓ Crown Saver, Brakes + Linkage, Clean + Anchor. Pulled Blow Down @ 8:30 + 17:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
24	10	220°C			

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1417	1432	15	—	½

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13000	152	100	152	100

REDUCED PUMP SPEED

1600 @ 60 @ Inc.

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1407.31	11.3	62.2
1416.91	11.9	62.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:30	2½	2	Drill 311mm Hole w/Motor Fr: 1417-1432
22:30	23:00	½	10	Surveys For Above Drilling.
23:00	23:30	½	5	Circ. Btms Up Mix P.11
23:30	23:45	¼	7	R.C. Service. Close Annular Fr. Flow O/C Sec
23:45	24:00	¼	24	Flow ✓

NOTES: ✓ Crown Saver, Brakes + Linkage, Clean + Anchor. Pulled Blow Down @ 2200

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
24	9.8	210°C		WATCH DOG	2456

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR/F.S.	10.66	.41 m
1/1	MOTOR/H.O.S.	8.43	5.56 m
1	MOTOR	9.34	4.99 m
5	D.C.	228	45.96 m
1	JARS		7.08 m
3	D.C.	228	27.59 m
1	BOW SUB		.83 m
12	HWDP		109.71 m
	BHA		221.53 m
99	E-2 DP		943.50 m
8	12 D.P. STANDS		273.51 m
2	12 D.P. SINGLES		17.16 m
	KELLY DOWN		3.3 m
	TOTAL		1417 m
WT. OF DC		1000 daN	
WT. OF STRING	75	1000 daN	

BIT RECORD

BIT NO.	7RR
SIZE (mm)	311
IADC CODE	
MFG.	HYCALOG.
TYPE	PDC
SERIAL NO.	H44392
JETS (mm)	7-15.9/1-14.3
DEPTH OUT (m)	—
DEPTH IN (m)	1349
TOTAL METRES DRILLED (m)	68
TOTAL HOURS RUN	8 1/4

CUTTING STRUCTURE: T, | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m) 1 m.

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME			16:00
DENSITY kg/m³			9.65
FUNNEL VIS. - (S/L)			66
W.L. (cm³)			
pH			
PVT m³			153.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR/F.S.	10.66	.41 m
1/1	MOTOR/H.O.S.	8.43	5.56 m
1	MOTOR	9.34	4.99 m
5	D.C.	228	45.96 m
1	JARS		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		221.55 m
99	E3-D.P		943.50 m
9	X 12 D.P. STANDS		258.27 m
X	D.P. SINGLES		9.59 m
	KELLY DOWN		m
	TOTAL		1432.91 m
WT. OF DC		1000 daN	
WT. OF STRING	75	1000 daN	

BIT RECORD

BIT NO.	7RR
SIZE (mm)	311
IADC CODE	
MFG.	HYCALOG
TYPE	~~PDC~~ DS120H
SERIAL NO.	H44392
JETS (mm)	7-15.9/1-14.3
DEPTH OUT (m)	1432
DEPTH IN (m)	1349
TOTAL METRES DRILLED (m)	83
TOTAL HOURS RUN	10 3/4

CUTTING STRUCTURE: T, | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	23:00
DENSITY kg/m³	960	950	960
FUNNEL VIS. - (S/L)	64	64	61
W.L. (cm³)			
pH			
PVT m³	153.1	160.5	159.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
LIME	25 SK
BARITE	25

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1, 2 & 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	960	940	1830
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1417	1432	15	—	½

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13000	152	100	152	100

REDUCED PUMP SPEED

1600 @ 60 @ Inc.

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1407.31	11.3	62.2
1416.91	11.9	62.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:30	2½	2	Drill 311mm Hole w/Motor Fr: 1417-1432
22:30	23:00	½	10	Surveys For Above Drilling.
23:00	23:30	½	5	Circ. Btms Up Mix P.11
23:30	23:45	¼	7	R.C. Service. Close Annular Fr. Flow O/C Sec
23:45	24:00	¼	24	Flow ✓

NOTES: ✓ Crown Saver, Brakes + Linkage, Clean + Anchor. Pulled Blow Down @ 2200

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
24	9.8	210°C		WATCH DOG	2456

FOLD HERE →

111062

LICENCE NO.: SDL99

WELL NAME AND NO.: CHEVRON ETAL HARD K-29-60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30'N 123° 30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) Initial
(3) Mast Inspection Before Raising or Lowering Initial
(4) Crown Saver Checked Initial
(5) Motor Kills checked Initial

YEAR 99 | MONTH 03 | DAY 23

RIG NO. 44

FUEL @ 8:00

RIG 123 | BOILER #2 256cm

WEATHER	
TEMPERATURE °C	
CURRENT CONDITIONS	1322
WIND DIRECTION	
ROADS	54190th

CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST	339.7	315.34	101.2	BUTRESS	K55	56	693.60	731	701.3

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 TRDrive	24	25	26
MORN.			3	1		1/2	3 3/4	1/4			1/2															
DAY							4	1/4		3/4											4 1/2	2 1/2				
EVE.						1/4	3 1/2	1/4																		
TOTAL			3			3/4	11 1/4	3/4		3/4	1/2										4 1/2	2 1/2				

TOTALS	SHALE SHAKER(S)	RENTALS/SERVICES	MORN.	DAY	EVE.
8	NO. TYPE				
12	SCREENS CHANGED ☐ YES ☐ NO				
4	TOP 50 / MIDDLE 50 / BOTTOM 50	TOP 38 / MIDDLE 38 / BOTTOM 38			
24					

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MONEL		.35 m
1/1	BIT	311	.63 m
1/1	B.S. MONEL	290	5.54 m
1/1	D.C. STAB	220	9.24 1.77 m
1/1	D.C. STAB	220	9.01 1.77 m
3	D.C.	228	27.27 m
1	JAR		7.08 m
3	D.C.	228	27.59 m
1	XO		.83 m
12	HWDP		109.71 m
	BHA		214.93 m
10	D.P.	STANDS	172.43 m
X4	D.P.	SINGLES	9.59 m
	KELLY DOWN		8.55 m
	TOTAL		m
WT. BLOCKS	49+E.20		94350 daN
WT. OF STRING	74		1000 daN

BIT RECORD

BIT NO.	6
SIZE (mm)	311
IADC CODE	H37
MFG.	REED
TYPE	EHP43H
SERIAL NO.	XL5158
JETS (mm)	3-22.2
DEPTH OUT (m)	1349
DEPTH IN (m)	1330
TOTAL METRES DRILLED (m)	19
TOTAL HOURS RUN	3

CUTTING STRUCTURE: T | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	3:00	5:00	7:00
DENSITY kg/m³	960	965	
FUNNEL VIS. - (S/L)	64	C1	
W.L. (cm³)			
pH			
P.V.T	73.9	73.6	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
LIME	25 SX
BARITE	25 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
6	965	930	1940

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1330	1349	19	40/60	4/10

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16300	152	80	152	80

REDUCED PUMP SPEED

1200 @ SLOW @ 61

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1324	7 3/4	55°

Pump #2 Liner 152 @ 1155 PM

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:45	1 3/4	6	RUN IN w/ BIT #6
01:45	4:45	3	2	PATTERN BIT + DRILL 311 — HOLE / MTR. FR: 1330-13:49
4:45	05:00	1/4	7	R/S CLOSE BTM PIPE RAMS MAN O/C SEAL
05:00	05:30	1/2	10	CIRC + SURVEY @ 1324
05:30	06:00	1/2	5	CIRC + PUMP P.11
06:00	08:00	2	6	FLOW / HOIST STDS / FLOW V / POOH. FLOW V 1/2 WAY OUT.

NOTES: J CROWN SAVER / BRAKE LINKAGE / FAST LINE CLAMP / ANCHOR. Boiler Blow Down @ 0400

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	210°C			2397

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MONEL		.41 m
1/1	NATIVE BIT	311	10.66 .56 m
1/1	MONEL		9.42 .99 m
1/1	MONEL		7.34 4.96 m
1	SAB.		7.08 m
3	DC	228	27.59 m
1	BELL SUB		.83 m
10	HWDP		107.71 m
	BHA -		221.53 m
99	C.D.P.		943.50 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	#7 RR#5
SIZE (mm)	311
IADC CODE	
MFG.	HYCALOG.
TYPE	PDC
SERIAL NO.	H44392
JETS (mm)	7/15.9 1/14.3
DEPTH OUT (m)	
DEPTH IN (m)	1349
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:30	2 1/2	22	BLEED TO DRIVE HOSE + SCREW INTO TAPE CORES.
10:30	11:15	3/4	6	PULL OUT TO HWDP.
11:15	12:00	3/4	9	SLIP + CUT
12:00	15:15	3 1/4	6	PULL OUT + LAYDOWN MOTOR + STABS.
15:15	15:30	1/4	7	RIG SERVICE FEW BLINDS @ FLOOR + MAIN.
15:30	20:00	4 1/2	20	PICK UP DIR. TOOLS, RIG IN MWD TOOLS.

NOTES: J CROWN SAVER BRAKES + LINKAGE, CLAMP + ANCHOR. Boiler Blow Down @ 15:30 & 19:00 & 15:30

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10	220°C			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MONEL		.41 m
1/1	NATIVE BIT	311	10.66 .56 m
1/1	MONEL		9.42 .99 m
1/5	MONEL DC	228	9.34 45.96 m
1	SAB		7.08 m
3	D.C.	228	27.59 m
1	BELL SUB		.83 m
12	HWDP		109.71 m
	BHA		= 221.53 m
99	C.D.P.		943.50 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	7 RR#5
SIZE (mm)	311
IADC CODE	
MFG.	HYCALOG.
TYPE	PDC
SERIAL NO.	H44392
JETS (mm)	7-15.9/14.3
DEPTH OUT (m)	
DEPTH IN (m)	1349
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME			24:00
DENSITY kg/m³			955
FUNNEL VIS. - (S/L)			71
W.L. (cm³)			
pH			
PVT			71.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8			

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1349				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:30	3 1/2	6	RUN IN WITH MOTOR / MUD @ SHOE + @ 1200m.
23:30	23:45	1/4	5	CLEAN TO BTM 1m of FILL.
23:45	24:00	1/4	7	R/S CLOSE ANNULAR MAN O/C 14sec.

NOTES: J CROWN SAVER / BRAKE LINKAGE / FAST LINE CLAMP / ANCHOR. Boiler Blow Down @ 22:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9	220°C			

FOLD HERE →

111061

LICENCE NO.: 5024.99
WELL NAME AND NO.: CHEVRON ET AL LINED K-39 60° 30'N 123° 30'W
OPERATOR: CHEVRON CAN. RES.
CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: K-39 60° 30'N 123° 30'W
UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR: 97 MONTH: 02 DAY: 22
RIG NO.: 48
FUEL @ 8:00
RIG: BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS 8482; WIND DIRECTION; ROAD 538383

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.34	102	BORRUS	K-55	56	1936	7.31	701.3

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	177	29	E	108	153	5"XH	101	9-P-100	NATIONAL	235
	177	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
	177	31	X3	101	156	5"XH	140	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.																									
DAY			5			1/2	1 1/4	1/4			1														
EVE.							7 3/4	1/4																	
TOTAL																									

TOTALS: 5/8

SHALE SHAKER(S)
NO. TYPE
SCREENS CHANGED ☐ YES ☐ NO
TOP 50 TOP 38
MIDDLE 50 MIDDLE 38
BOTTOM 50 BOTTOM 38

RENTALS/SERVICES (MORN / DAY / EVE)

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	MOTOR		.41 m
	M.B. PWD - PWD	9.01/1.63 m	
	M.B. STAB / MODEL	2.03/1.34 m	
1	STAB		1.77 m
5	DC		45.96 m
1	JAR		7.08 m
3	DC		29.28 m
1	X/O		.93 m
12	HWDP		109.71 m
	BHA		206.07 m
99	E.D.P.		943.50 m
334 XZ	D.P.	STANDS	114.99 m
	D.P.	SINGLES	m
	KELLY DOWN		14.22 m
	TOTAL		1290 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	1
SIZE (mm)	311
IADC CODE	
MFG.	HYCALOG
TYPE	PDC
SERIAL NO.	H44392
JETS (mm)	7x15.9/11x13
DEPTH OUT (m)	
DEPTH IN (m)	1183
TOTAL METRES DRILLED (m)	67
TOTAL HOURS RUN	2 3/4

CUTTING STRUCTURE: T1 | To | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	0500
DENSITY kg/m³	970
FUNNEL VIS. - (S/L)	70
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
INVERT	50m³
LIME	35

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD / RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1183	1250	67	55	3/5

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11550	152	80	152	80

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

#3 PUMP 152 LINERS 115 SPM

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:00	2	6	R.I.H. TO 680m
02:00	02:15	1/4	5	BRK. CIRC.
02:15	03:00	3/4	6	R.I.H. TO 1095m
03:00	04:30	1 1/2	5	WASH F/1095 - 1183
04:30	06:15	1 3/4	2	DRILL F/1183m - 1235m
06:15	06:30	1/4	7	RIS
06:30	06:45	1/4	2	DRILL F/1235m - 1245m
06:45	07:15	1/2	10	SURVEY
07:15	08:00	3/4	2	DRILL F/1245m - 1250m

NOTES: V-RAILS, LWKABE, CROWN SAVER, CLAMP, ANCHOR. BOILER BLOW DOWN @ 0100, 0730

DRILLER SIGNATURE

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	220			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		.41 m
1	M.B. PWD	9.01/1.63 m	
1	M.B. STAB / MODEL	2.03/1.34 m	
1	STAB		1.77 m
5	D.C.	228	45.96 m
1	JAR		7.08 m
3	D.C.	228	19.28 m
1	XO		.93 m
12	HWDP		109.71 m
	BHA		206.07 m
99	E.D.P.		943.50 m
6	X2 D.P.	STANDS	172.98 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		1321.99 m
WT. OF DC			1000 daN
WT. OF STRING	74		1000 daN

BIT RECORD

BIT NO.	1
SIZE (mm)	311
IADC CODE	
MFG.	HYCALOG
TYPE	PDC
SERIAL NO.	H44392
JETS (mm)	7-15.9/1-14.3
DEPTH OUT (m)	1321
DEPTH IN (m)	1183
TOTAL METRES DRILLED (m)	138
TOTAL HOURS RUN	7 3/4

CUTTING STRUCTURE: T1: 2 | To: 1 | MDC: CT | LOC | B | Gage: I | ODC | Reason Pulled: DEV | Total Run m/hr.

HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	9:00	17:00	18:00
DENSITY kg/m³	950	960	955
FUNNEL VIS. - (S/L)	65	67	68
W.L. (cm³)			
pH			
POT	74.8	74.9	73.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN: 8 | INTAKE DENSITY: 950 | OVERFLOW DENSITY: 910 | UNDERFLOW DENSITY: 1984

DAY TOUR

METRES DRILLED

FROM	TO	DRD / RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1250	1321	71	80	2/3

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17400	152	80	152	80

REDUCED PUMP SPEED: 1600 @ 100 @ SLOW

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1248	5 1/2	59 Azm
1286	7°	57 Azm

PUMP #3 LINER 152 @ 115 SPM

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:30	1 1/2	2	DRILL 311mm HOLE W/MOTOR FR: 1250 - 1274
09:30	10:00	1/2	10	C.U.C + SURVEY @ 1248
10:00	12:30	2 1/2	2	DRILL 311mm HOLE W/MOTOR FR: 1274 - 1312
12:30	13:00	1/2	10	CIRC + SURVEY @ 1286
13:00	14:00	1	2	DRILL 311mm HOLE W/MOTOR FR: 1312 - 1321
14:00	14:30	1/2	5	CIRC UP BTTM HOLE SAMPLE
14:30	14:45	1/4	7	R/S CLOSE TOP PIPE RAMS @ MAN O/C HSEC
14:45				FLOW ✓ PUMP PILL HOIST TO CHANGE BHA
	16:00	1 1/4	6	FLOW ✓ @ 55 STDS.

NOTES: ✓ CROWN SAVER ✓ BEARER HEADACHE ✓ FIRST AID CHAMP ✓ ANCHOR. BOILER BLOW DOWN @ 0900, 1300

DRILLER SIGNATURE

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9	215°C	99 000		2456

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		.35 m
1	M.B. PWD	9.09/1.63 m	
1/1	M.B. STAB / MODEL	2.10/1.34 m	
1	STAB		1.77 m
1	DC		9.47 m
3	DC	228	27.27 m
1	T.F.C.		7.08 m
3	DC	228	27.59 m
1	MONEL SUB		.83 m
10	HWDP		109.71 m
	BHA		214.93 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	B6
SIZE (mm)	311
IADC CODE	
MFG.	REED
TYPE	EHP43H
SERIAL NO.	XL5158
JETS (mm)	3x20.2.
DEPTH OUT (m)	
DEPTH IN (m)	1321
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | To | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRD / RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	20:30	4 1/2	6	PULL OUT F/ CASING MONK + BIT
20:30	20:45	1/4	7	RIG SERVICE.
20:45	24:00	3 1/4	6	MAKE UP MONK + BIT # 6 TRUN TO SAME
				TEST MWD @ 134m.

NOTES: ✓ CROWN SAVER, BEARER HEADACHE, CLAMP + ANCHOR.

DRILLER SIGNATURE

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10.5	225°			

FOLD HERE →

111060

LICENCE NO.: SOL 98

WELL NAME AND NO.: CHEVRON ET AL KINGAK K-21 60° 30' N 135° 30' W

OPERATOR: CHEVRON CAN. RES.

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-21 60° 30' N 135° 30' W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 93 MONTH 02 DAY 01

RIG NO.: 48

FUEL @ 8:00

RIG: 1.20 BOILER:

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	SNOW
WIND DIRECTION	NW
ROAD	SOFT

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.34	101.2	BUTRESS	K55	56	623.16	7.31	701.3

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	140	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22 AIR SYSTEM	23	24	25	26
OPER.																									
MORN.		4 1/4				3 1/4	1/4																		
DAY																									
EVE.		4 1/2				3 1/4	1/4															1/2			
TOTAL																									

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
50	38
MIDDLE 50	MIDDLE 38
BOTTOM 50	BOTTOM 38

RENTALS/SERVICES — MORN. | DAY | EVE.

2.10 BOILER 1.75

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			34 m
1/1	B.S./MOTOR	311	.90/9.34 m
2	DC		18.69 m
1/1	REAM/DC		2.11/9.27 m
1	STAB		1.77 m
6	DC		73.37 m
1	JAR		7.08 m
4	DC		36.50 m
1	XO		.83 m
12	HWDP		109.71 m
		BHA:	269.91 m
32	D.P.	STANDS	914.72 m
	D.P.	SINGLES	m
	KELLY DOWN		3.50 m
	TOTAL		1183 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	Y79YK
JETS (mm)	1X12.7/2X15.9
DEPTH OUT (m)	1183
DEPTH IN (m)	711
TOTAL METRES DRILLED (m)	472
TOTAL HOURS RUN	41

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	02:00	04:00 / 06:00
DENSITY kg/m³	940	950
FUNNEL VIS. - (S/L)	64	64
W.L. (cm³)		
pH		
PVT	68.4	69.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	25 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1136	1183	47	150	7/10

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11065.00	150	115	152	

REDUCED PUMP SPEED

1650 @ 60/73 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

Pump #3 152 LINERS 115 SPM

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00.00	01.30	1 1/2	2	DRILL 311mm HOLE F/1136m - 1155m
01.30	01.45	1/4	7	R/S FUNC. ANNULAR 13 SEC 6 F/FLOOR
01.45	04.30	2 3/4	2	DRILL F/1155m - 1183m
04.30	04.45	1/4	5	CIRC. 4 INDEX PIPE
04.45	05.15	1/2	10	SURVEY
05.15	05.45	1/2	5	CIRC
05.45	08.00	2 1/4	6	PUMP PILL 4 P.O.O.H. FLOW @ 500S, 305 OS

NOTES: BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR. BOILER BLOW DOWN @ 0430

DRILLER SIGNATURE

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225		CONFINED SPACE	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.34 m
1/1	B.S./MOTOR	311	.90/9.34 m
2	DC		18.69 m
1/1	REAM/DC		2.11/9.27 m
1	STAB		1.77 m
4	DC		73.37 m
1	JAR		7.08 m
4	DC		36.50 m
1	XO		.83 m
12	HWDP		109.71 m
		BHA	269.91 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	Y79YK
JETS (mm)	1-12.7/2-15.9
DEPTH OUT (m)	1183
DEPTH IN (m)	711
TOTAL METRES DRILLED (m)	472
TOTAL HOURS RUN	41

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME		
DENSITY kg/m³		
FUNNEL VIS. - (S/L)		
W.L. (cm³)		
pH		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1143				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00				REQUEST REPLACE BUMPER BLOCK @ CROWN + WAIT ON AKITA ENGINEER TO INSPECT CROWN
	17:45	9 3/4		
17:45	18:00	1/4	7	R/S. CLOSE LOWER P.R. RAMS @ FLOOR & SET
18:00	20:00	2	6	TRIP OUT.

NOTE: @ 0750 DAY DRILLER

NOTES: Boiler Blown Down @ 0900, 1200, 1600, 1730. ✓ CROWN SAVER ✓ BRAKES LINKAGE ✓ FIRST AID KIT ✓ FIRE EXTINGUISHER ✓ PARKING

DRILLER SIGNATURE

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	210°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.41 m
1/1	MOTOR/BIT-PIN	311	9.01/.63 m
1/1	NB STAB/MOTOR		2.05/9.34 m
1	STAB		1.77 m
5	DC		45.96 m
1	JAR		7.08 m
3	DC		19.28 m
1	X/O		.83 m
12	HWDP		109.71 m
		BHA	206.07 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	1
SIZE (mm)	311
IADC CODE	
MFG.	HYCALOG
TYPE	PDC
SERIAL NO.	H44367
JETS (mm)	7X15.9/1X14.3
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	T.P. RECORD	
DENSITY kg/m³	MEAS.	8.72
FUNNEL VIS. - (S/L)	CALC.	7.82
W.L. (cm³)	DIFF	.90
pH		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20.00	21.00	1	6	P.O.O.H. LAYDOWN JARS & REAMER FLOW ✓ OUT OF HOLE
21.00	21.15	1/4	7	FUNC. DRILL RAMS 6 SEC 6 F/FLOOR
21.15	21.45	1/2	22	PICK UP & INSTALL AIR STRIPPER
21.45	24.00	2 1/4	6	PICK UP MOTOR & MAKE UP BIT & R.I.H.

NOTES: ✓ BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR. BOILER BLOW DOWN @

DRILLER SIGNATURE

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	220			

FOLD HERE →

111059

LICENCE NO.:	WELL NAME AND NO.:
SDL 99	CHEVRONET AL LAKE K-29 60° 30'N 123° 30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CAN. RES.	AKITA DRILLING LTD
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60° 30'N 123° 30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	02	20

RIG NO. 48

FUEL @ 8:00

RIG: | BOILER:

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3#	101.2	BAKERS	K-55	56	693.6	7.31	701.3

WEATHER	
TEMPERATURE °C	
CURRENT CONDITIONS	3752
WIND DIRECTION	
ROAD	533956

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	106	152	5"XH	121	9-P-100	NATIONAL	235
127	29	X2	106	154	5"XH	133	9-P-100	NATIONAL	235
127	38	X3	101	156	5"XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	WORK ON KELLY HOSE	WORK ON MOTOR KILLS			
MORN.		6¼					¼			½																
DAY		10½					¼			1													¼			
EVE.																										
TOTAL																										

TOTALS	
	8
	12

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
50	38
MIDDLE 50	MIDDLE 38
BOTTOM 50	BOTTOM 38

RENTALS/SERVICES — MORN | DAY | EVE

ACE 34
2ND BOILER 2.22

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.34 m
1/1	B.S./MONEL	311	.90/31.34 m
2	DC		18.67 m
1/1	REAM/DC	228	2.14/17.77 m
1	STAB		1.77 m
8	DC		73.37 m
1	JAR		7.08 m
4	DC		36.50 m
1	X/O		.83 m
12	HWDP		109.70 m
		BHA:	269.91 m
25	D.P.	STANDS	714.54 m
	D.P.	SINGLES	m
	KELLY DOWN		8.50 m
	TOTAL		976 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	Y79YK
JETS (mm)	1x12.7/2x15.9
DEPTH OUT (m)	
DEPTH IN (m)	711
TOTAL METRES DRILLED (m)	265
TOTAL HOURS RUN	23

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	0200	0400	0600
DENSITY kg/m³	930	940	960
FUNNEL VIS. - (S/L)	58	59	62
W.L. (cm³)			
pH			
PVT			61.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED FOR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
909	976	67	150	5/6

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15750	152	115		

REDUCED PUMP SPEED

1600 @ 57 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
913	4°	49 AZ

#3 PUMP | 152 LINERS | 115 STKS

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:15	1¼	2	DRILL 311mm HOLE F/909m - 937m
01:15	01:45	½	10	SURVEY @ 914
01:45	02:45	1	22	WORK ON KELLY HOSE
02:45	03:00	¼	7	RS FUNC. ANNULAR 14 SEC % F/MANIF
03:00	08:00	5	2	DRILL F/937m - 976m

NOTES
V BRAKES, LINKAGE, CROWN SAVER, CLAMP, AIR HOIST
BOILER BLOW DOWN @ 0430

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
7	10	220			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.34 m
1/1	B.S./MONEL	311	.90/31.34 m
2	DC	228	14.69 m
1/1	REAM/DC	228	2.14/17.27 m
1	STAB		1.77 m
9	D.C.	228	73.37 m
1	JAR		7.09 m
4	D.C.	228	36.50 m
1	XO		.83 m
12	HWDP		109.70 m
	BHA		269.96 m
29	D.P.	STANDS	829.54 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		1099.45 m
WT. OF DC			1000 daN
WT. OF STRING	76		1000 daN

BIT RECORD

BIT NO.	RRHA
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	Y79YK
JETS (mm)	1-12.7/2-15.9
DEPTH OUT (m)	
DEPTH IN (m)	711
TOTAL METRES DRILLED (m)	387
TOTAL HOURS RUN	33½

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	920	930	1930
FUNNEL VIS. - (S/L)	56	57	57
W.L. (cm³)			
pH			
PVT	61.6	58.8	65.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
HRP	1 BBL
VG-69	12 SX
INVERT	40 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	1930	900	1710
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED FOR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
976	1098	122	150	8/10

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16410	152	115	152	

REDUCED PUMP SPEED

1800 @ 60 @ SLOW

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
960	3⅞	41 AZM
1037	4°	38 AZM.

PUMP #3 | 152 LINERS @ 115 SPM.

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1	2	DRILL 311mm HOLE FR. 976 - 984
09:00	09:30	½	10	CIRC. + SURVEY @ 960
09:30	15:00	5½	2	DRILL 311mm HOLE FR. 984 - 1041
15:00	15:13	¼	7	R/S CLOSE UPPER PIPE RAMS @ MANIFOLD 4 SEC
15:13	16:15	1	2	DRILL 311mm HOLE FR. 1041 - 1051
16:15	16:45	½	10	SURVEY @ 1027 + CIRC.
16:45	17:00	¼	23	FUNCTION RIG MOTOR KILLS AS WORKED
17:00	20:00	3	2	DRILL 311mm HOLE FR. 1051 - 1098

NOTES
V CROWN SAVER V BRAKE LINKAGE V EASTLINE CLAMP V ANCHOR PINS
FUNCTION CHECK MOTOR KILLS OK.
Boiler Blow Down @ 1800 Hrs. 1530, 1930

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	225°C	80,000	ENVIRONMENTAL	2594

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.34 m
	B.S./MONEL		.90/31.34 m
2	DC		18.67 m
1/1	REAM/DC		2.14/17.27 m
1	STAB		1.77 m
8	DC		73.37 m
1	JAR		7.08 m
4	DC		36.50 m
1	X/O		.83 m
12	HWDP		109.70 m
			269.91 m
31	D.P.	STANDS	845.71 m
	D.P.	SINGLES	m
	KELLY DOWN		8.88 m
	TOTAL		1136 m
WT. OF DC			1000 daN
WT. OF STRING	77		1000 daN

BIT RECORD

BIT NO.	RR4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	Y79YK
JETS (mm)	1x10.7/2x15.9
DEPTH OUT (m)	
DEPTH IN (m)	711
TOTAL METRES DRILLED (m)	425
TOTAL HOURS RUN	37¾

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	940	940	950
FUNNEL VIS. - (S/L)	59	58	62
W.L. (cm³)			
pH			
PVT	63.2	72.8	69.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
VG 69	1 BBL
HRP	20 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED FOR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1098	1136	38	150	7/10

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16400	152	115		

REDUCED PUMP SPEED

1700 @ 58 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1103	4	32 AZ

PUMP #3 | 152 LINERS | 115 SPM

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:30	2½	2	DRILL 311mm HOLE F/1098m - 1127m
22:30	23:00	½	10	SURVEY @ 1103m
23:00	23:45	¾	2	DRILL F/1127m - 1136m
23:45	24:00	¼	7	R/S FUNC. LOWER PIPE RAMS 5 SEC % F/MANIF

NOTES
V BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR
BOILER BLOW DOWN @ 1100 PM

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.0	225°C			

FOLD HERE →

111058

LICENCE NO.: SO 99

WELL NAME AND NO.: CHEVRON CFB LIARD K-29 60° 30'N 123° 30W

OPERATOR: CHEVRON CANADA RESOURCES

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-29 60°30'N 123 30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 MONTH 03 DAY 14

RIG NO. 48

FUEL @ 8:00

RIG 102 BOILER

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.34	101.2	BUTRESS	K55	56	693.16	7.31	701.3

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	2630
WIND DIRECTION	
ROAD	537834

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5"XH	121	T-P-100	NATIONAL	235
	127	29	X2	106	154	5"XH	133	T-P-100	NATIONAL	235
	127	38	X3	101	156	5"XH	14	E-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 F.I.T.	24 Work Shakers	25 B.O.P. Drill	26
	MORN.		3½			2½		¼															½	1¼		
	DAY		9¾					¼			1¾														¼	
	EVE.		3½					¼																	1¼	
	TOTAL																									

TOTALS

8	
12	
4	

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☑ YES ☐ NO

TOP 50	TOP 50 3-4
MIDDLE 50	MIDDLE 50 3-4
BOTTOM 50	BOTTOM 50 3-4

RENTALS/SERVICES

	MORN	DAY	EVE
2ND BOILER 91			
CHK ALL FLARE LINES JC			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.34 m
1/1	B.S./MONEL		.30/9.34 m
2	DC		18.69 m
1/1	REAM/DC		2.11/9.27 m
1	STAB		1.77 m
8	DC		73.37 m
1	JAR		7.08 m
4	DC		36.50 m
1	X/O		.83 m
12	HWDP		109.70 m
		BHA	267.91 m
16	D.P.	STANDS	457.58 m
	D.P.	SINGLES	m
	KELLY DOWN		3.49 m
	TOTAL		729 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR #4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	179YK
JETS (mm)	1X12.7 2X15.9
DEPTH OUT (m)	
DEPTH IN (m)	711
TOTAL METRES DRILLED (m)	13
TOTAL HOURS RUN	3½

CUTTING STRUCTURE: T, | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 0-1 0-1

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME			0800
DENSITY kg/m³			930
FUNNEL VIS. - (S/L)			68
W.L. (cm³)			
pH			10.5
PVT			59.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RATE CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
711	724	13	60	3/5

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	110	152	

REDUCED PUMP SPEED

PUMP #3 @ 152 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:30	1½	5	Check Pipe & Circ. Comm TO OUT OF HOLE & CLEAN SHAKER SCREENS
01:30	02:00	½	2	Drill 311mm Hole F/ 711m - 715m
02:00	03:00	1	5	Circ.
03:00	03:30	½	22	F.I.T. TO 15.5 Kpa/m
03:30	03:45	¼	7	R/S
03:45	04:00	¼	2	Drill 715m - 715.5m
04:00	04:30	½	23	Clean Shaker Screens
04:30	05:00	½	2	Work on Drill F/ 715.5 - 716
05:00	05:45	¾	23	Work on Shakers
05:45	08:00	2¼	2	Drill F/ 716 - 724

NOTES: ✓BRAKES, LINKAGE, CROWN SAVER, CLAMP, AIR HOSE, TALLSCOPE, RACK FIRE EXTINGUISHERS, BOILER BLOW DOWN @ 0230, 0530

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	220			

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.34 m
1/1	B.S./MONEL		.30/9.34 m
2	D.C.		18.69 m
1/1	REAM/D.C.		2.11/9.27 m
1	STAB		1.77 m
8	D.C.		73.37 m
1	JAR		7.08 m
4	D.C.		36.50 m
1	X/O		.83 m
12	HWDP		109.70 m
		B.H.A.	269.91 m
19	D.P.	STANDS	543.90 m
	D.P.	SINGLES	m
DP RX	KELLY DOWN		19.10 m
	TOTAL		832.91 m
WT. OF DC			1000 daN
WT. OF STRING		70	1000 daN

BIT RECORD

BIT NO.	RR #4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	Y79YK
JETS (mm)	1-12.7/2-15.9
DEPTH OUT (m)	
DEPTH IN (m)	711
TOTAL METRES DRILLED (m)	121
TOTAL HOURS RUN	13¼

CUTTING STRUCTURE: T, | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☒ OIL BASED

TIME	19:00	12:00	5:00
DENSITY kg/m³	940	930	920
FUNNEL VIS. - (S/L)	66	64	62
W.L. (cm³)			
pH			
PVT	66.8	65.7	63.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
INVERT	20 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2+3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	900	890	1660

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RATE CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
724	832	109	120/150	5/6

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14300	152	110	152	

REDUCED PUMP SPEED

1200 @ 55 @ SLOW

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
~~748~~ 748	3¼	32 AZM.
~~800~~ 791	3¼	37 AZM.

PUMP #3 LINER 152 SPM 110

DRILLER SIGNATURE

DAY TOUR

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:30	3½	2	Drill 311mm Hole F/C 724 - ~~729~~ 755
11:30	11:45	¼	24	Hold B.O.P. Drill w/Crew Well Secured in 90 Seconds Annular Closed in 45sec.
11:45	13:00	1¼	10	Survey @ ~~730~~ 732 Miss Run Circ. Between
13:00	15:45	2¾	2	Drill 311mm Hole Fr: ~~755~~ 755 - 784
15:45	16:00	¼	7	R/S Reduce SPM Close Top Pipe Rams 2 Sec
16:00	18:00	2	2	Drill 311mm Hole Fr: 784 - 813
18:00	18:30	½	10	Circ + Survey @ ~~800~~ 791
18:30	20:00	1½	2	Drill 311mm Hole Fr: 813 - 832

NOTES: ✓CROWN SAVER ✓BRAKES ✓LINKAGE ✓FIRE LINE CHK ✓ANCHOR, Boiler Blow Down @ 0730, 1300, 1700, 1930

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	215°C		AIR HORN SIGNALS	2800

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.34 m
1/1	B.S./MONEL		.30/9.34 m
2	DC		18.69 m
1/1	REAM/DC		2.11/9.27 m
1	STAB		1.77 m
8	DC		73.37 m
1	JAR		7.08 m
4	DC		36.50 m
1	X/O		.83 m
12	HWDP		109.70 m
		BHA	267.91 m
~~19~~ 18	D.P.	STANDS	~~543.90~~ 489.51 m
	D.P.	SINGLES	m
	KELLY DOWN		18.49 m
	TOTAL		774 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	Y79YK
JETS (mm)	1X12.7 2X15.9
DEPTH OUT (m)	
DEPTH IN (m)	711
TOTAL METRES DRILLED (m)	198
TOTAL HOURS RUN	16¾

CUTTING STRUCTURE: T, | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 0-1 0-1

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	900	910	930
FUNNEL VIS. - (S/L)	60	58	57
W.L. (cm³)			
pH			
PVT	61.4	69.2	67.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
NOVAMUL	1 BBL
LIME	10 SX
VERSA HRP	1 BBL
VG69	12 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2,3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	900	890	1660

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RATE CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
832	909	77	150	5/7

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15800	152	115	152	

REDUCED PUMP SPEED

150 @ 60 @ 1010

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
PUMP #3	LINER 152	SPM 115

DRILLER SIGNATURE

EVENING TOUR

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:15	3¼	2	Drill 311mm Hole F/ 832m - 878m
23:15	23:30	¼	7	R/S Func. Lower Pipe Rams (Floor 6 sec ~~6~~)
23:30	23:45	¼	24	BOP Drill w/Crew / Well Secured in Position 83 sec
23:45	24:00	¼	2	Drill F/ 878m - 901m

NOTES: ✓BRAKES, LINKAGE, CROWN SAVER, CLAMP, BOILER BLOW DOWN @ 2130

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.5	208			

FOLD HERE →

111057

LICENCE NO.:	WELL NAME AND NO.:
SD 99	CHEVRON ET AL LINDO K-31 60° 30' N 123° 30' W
OPERATOR:	CONTRACTOR:
CHEVRON CANADA RES.	AKITA DRILLING LTD
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (If required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	09	18

RIG NO. 48

FUEL @ 8:00

RIG 1.32 BOILER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING									
TUBING OR LINER	339.7	311.2	106.7	BUTTRESS	K-55	56	693.6	7.31	701.3

WEATHER

	°C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
TEMPERATURE		127	29	E	108	152	5" XH	121	9-P-100	NATIONAL	
CURRENT CONDITIONS		127	29	X2	108	152	5" XH	133	F-1000	EMSCO	
WIND DIRECTION		127	38	X3	101	156	5" XH	160	9-P-100	NATIONAL	
ROAD											

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						BHA	TOP DRIVE	HAUL DRILL STRING	DISTANCE	
MORN.						7 3/4	1/4																			
DAY						5 1/4	1/4		3/4													4 3/4	1/2	1/2		
EVE					1	1/4		1/4																	3/4	1 3/4
TOTAL																										

TOTALS

	8
	4

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☑ YES ☐ NO

TOP 84	TOP 84
MIDDLE 84	MIDDLE 84
BOTTOM 84	BOTTOM 84

RENTALS/SERVICES

2ND BOILER FUEL L/G

MORN. DAY EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
DESCO	15 X
DESCO	9m3
WATER	42 m3

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Don Johnson

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:45	7 3/4	6	PICK UP PIPE & RACK IN DERRICK
07:45	08:00	1/4	7	R/S SERVICE TOP DRIVE

NOTES

V-BRAKES, L/L (KOOSE CREEK) SAVER, CLAMP, ALIVE
BOILER BLOW DOWN @ 0430

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
Don Johnson	8	10.0	225			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	6 3/4 MILL TOOTH	311	0.34 m
2	D/C	228	19.69 m
1	REAM/DC	224	2.27 m
1	STAB		1.77 m
8	D.C.	224	73.37 m
1	JAR		7.08 m
4	D.C.	224	36.50 m
1	XO		.43 m
12	HWDP		109.71 m
	BHA		269.91 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR1
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	Y79YK
JETS (mm)	12/12/15.9/15.9
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
FUNCTION ON PUMP #3	MOVE	KW

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:15	2 1/4	6	PICK UP PIPE + RACK IN DERRICK
10:15	10:45	1/2	24	TEAR OUT LAYDOWN TRUCK.
10:45	11:00	1/4	7	RIG SERVICE.
11:00	11:45	3/4	6	RACK PIPE IN DERRICK (FILLING)
11:45	12:45	1	22	GET BHA ON CAT WALK + I.D. + O.D. THEM
12:45	16:30	3 3/4	22	MAKE UP B.HA.
16:30	18:45	1 3/4	6	RUN IN TO 527.
18:15	19:00	3/4	9	~~SLIP CUT 26 METRES~~, CUT 36, SLIP 18m
19:00	19:30	1/2	23	FIX TARP ON TOP DRIVE.
19:30	20:00	1/2	6	RUN IN RS

NOTES Boiler Blow Down @ 0900, 1200, 1600, 1900

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
Don Johnson	12	9.5	225°C			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	6 3/4 MILL TOOTH	311	0.34 m
2	D/P	228	18.69 m
1	REAMER/DC	224	2.27 m
1	STAB		1.77 m
8	D/C	224	73.37 m
1	JAR		7.08 m
4	D/C	224	36.50 m
1	X/O		.43 m
12	HWDP		109.71 m
	BHA		269.91 m
14	D.P.	STANDS	457.58 m
	D.P.	SINGLES	m
	KELLY DOWN		17.49 m
	TOTAL		760 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	RR #4R
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	179YK
JETS (mm)	12x12.7/12x15.9
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☑ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:15	1/4	6	RUN AND TAG FROM COLLAR @ 688.17m
20:15	21:00	3/4	05	KILL UP TO DISPLACE WITH INVERT
21:00	22:00	1	5	DISPLACE HOLE TO INVERT
22:00	23:45	1 3/4	26	DRILL OUT FLOAT + SHOE (HAND BOP Drill w/ Crew)
23:45	24:00	1/4	7	R/S

NOTES V-BRAKES, L/L (KOOSE CREEK) SAVER, CLAMP, ALIVE
BOILER BLOW DOWN @

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
Don Johnson	4	9.5	225			

FOLD HERE →

111056

LICENCE NO.: SOL 97 | WELL NAME AND NO.: CHEVRON ET AL LIMP K-21 60° 30'N 123° 30'W

OPERATOR: CHEVRON CANADA RES. | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-04 60° 30'N 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. Initial / R.M. Initial)

	OPR.	R.M.
(1) Daily Walk Around Inspection		
(2) Detailed Inspection-Weekly (using checklist)		
(3) H'S Signs Posted (if required)		
(4) Well License & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually inspect BOP's - Flarelines & Degasser Lines		
(1) Rig Site Health and Safety Meeting (one/crew/month)		
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		
(3) Mast Inspection Before Raising or Lowering		
(4) Crown Saver Checked		
(5) Motor Kills checked		

YEAR 97 | MONTH 09 | DAY 14 | RIG NO.:

FUEL @ 8:00 | RIG 151 | BOILER

WEATHER | TEMPERATURE °C | CURRENT CONDITIONS 16:00 | WIND DIRECTION | ROAD 530204

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
		311.34							
	339.7	311.34	107.2	BUTRESS	K-55	56	1603.6	7.31	1613

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5"XH	121	7-P-80	NATIONAL	235
	127	29	X2	106	154	5"XH	133	7-P-100	NATIONAL	235
	127	38	X3	101	156	5"XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL. LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRIL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 WOAB Evaluate Accumulator Test	24 R-to-W PIPE HANDLERS	25	26
	MORN.							1/4								T3/4										
	DAY																									
	EVE.						2½	1/2													1/4		1			
	TOTAL																									

TOTALS

	8
	4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES | MORN | DAY | EVE

2 JD BOKER 1.53

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC (1000 daN)

WT. OF STRING (1000 daN)

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:45	7¾	15	PRESS TEST CHOKE MANIFOLD, BRAKE LINES, HCR, INSIDE & OUT SIDE CHOKE LINE VALVES, INSIDE & OUTSIDE KILL LINE VALVES, CHECK VALVES & UPPER PIPE RAMS 14 MIN EACH LOW 3450 KPA HIGH BLIND RAMS & CSG. 1500 KPA LOW 15000 KPA HIGH.
07:45	08:00	1/4	7	RIG SERVICE

NOTES: Boiler Blow Down 02:00, 05:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
9	10.8	175			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC (1000 daN)

WT. OF STRING (1000 daN)

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00			15	PRESS TEST LOWER PIPE RAMS TO 1400 KPA LOW / 34500 KPA HIGH / TEST ANNULAR TO 1400 KPA LOW / 17,500 KPA HIGH / TEST UPPER + LOWER KELLY COCK, GTB SAFETY VALVE, DART SUB
	13:00	7	15	B.O.P. + MANIFOLD TO 1400 KPA LOW / 34500 KPA HIGH
13:00	16:00	1	22	INSTALL WEAR BUSHING
16:00	16:30	½	23	ACCUM. FUNCTION TEST
16:30	17:30	1	24	RACK D.P. + HWDP ON CATWALK SIDE.
17:30	19:45	2¼	6	RUN IN W/ 11" D.C. + BREAK DOWN 9" SUBS
19:45	20:00	¼	7	RIG SERVICE.

NOTES: Boiler Blow Down @ 1100, 1730, 1830

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10	225 T			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC (1000 daN)

WT. OF STRING (1000 daN)

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	21:00	1	6	LAY DOWN 11" DC'S
21:00	22:00	1	24	RIG UP PIPE HANDLE TRUCK
22:00	22:15	¼	21	SAFETY MEETING
22:15	23:45	1½	6	PICK UP PIPE & RACK IN DERRICK
23:45	24:00	¼	7	RIG SERVICE

NOTES: BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR. Boiler Blow Down @ 2200

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10	225			

FOLD HERE →

111054

LICENCE NO.: SOL 99

WELL NAME AND NO.: CHEVRON ETAL K-29 60°N 30° 123° 30°N

OPERATOR: CHEVRON CANADA LTD

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-29 60°N 30° 123° 30°N

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well Licenses & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (ons/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 MONTH 03 DAY 16

RIG NO. 48 UE

FUEL @ 8:00

RIG 168 BOILER 31

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	311.38	101.2	BAYTEX	K55	56	693.6	7.3	701.3

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	16651
WIND DIRECTION	300S
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5½ XH	121	9-P100	NATIONAL	254
127	29	X2	108	154	5½ XH	133	9-P100	NATIONAL	254
127	38	X3	101	156	5½ XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	HOLE CSG.	CIR WHOLE			
MORN.	1						¼						¼													
DAY					½		¼					½		7¼							½		1½			
EVE.																										
TOTAL																										

TOTALS

	8
	8
	1

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP 50 TOP 50

MIDDLE 50 MIDDLE 50

BOTTOM 50 BOTTOM 50

RENTALS/SERVICES

2ND BOILER FUEL 18 | MORN 8 | DAY 12 | EVE 4

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:00	1	14	NIPPLE DOWN DIVERTER.
01:00	01:15	¼	9	RIG SERVICE
01:15	01:45	½	24	CUT WINDOW IN CONDUCTOR.
01:45	08:00	6¼	13	WAIT ON CEMENT

NOTES ✓ CROWN SAVER, BRAKES & DRIVER CLOSE & ADJUST. BOILER BLOWN DOWN @ 3:00 & 6:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:30	½	22	BACKOUT CSG. & LAYDOWN
08:30	15:45	7¼	14	NIPPLE DOWN DIVERTER, CUT OFF CONDUCTOR, BRAZE & SCRAWL CSG. BOWL & NIPPLE UP
		½		BOP'S
15:45	16:00	¼	7	RIS

NOTES ✓ BRAKES, LUBRICATE CROWN SAVER, CLEAN & INSPECT. BOILER BLOWN DOWN @ 0800

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225°C			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	23:45	8	14	NIPPLE UP B.O.P.'S
23:45	24:00	¼	7	RIG SERVICE.

NOTES Boiler Blow Down @ 1900, 2300

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225°C			

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111053

LICENCE NO.: SDL-99

WELL NAME AND NO.: CHEVRON ETAL LEMD K-29 60° 38' N 123° 30' N

OPERATOR: CHEVRON CANADA LTD

CONTRACTOR: ARNA DRILLING LTD

SURFACE LOCATION: K-29-60° 30' N 125° 30' N

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 MONTH 02 DAY 13

RIG NO.: 48 UE

FUEL @ 8:00

RIG: 5 BOILER: 1

WEATHER

TEMPERATURE °C

CURRENT CONDITIONS 16.5 1

WIND DIRECTION

ROAD 530013

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	311.20	101.2	BUTTRESS	K-55	56	693.6		701.3

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5"XH	121	9-P100	NATIONAL	254
127	25	X2	106	154	5"XH	133	9-P100	NATIONAL	254
	38	X3	101	156	5"XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.					1 3/4	1 3/4	1/4					3 1/4									3/4	RIG ON STEAM	2 3/4 FINISH FLOOR		
	DAY					2 1/2	6 1/2	1/4					2 1/2									1/4		1/2		
	EVE.						2 1/2	1/4							3/4											
	TOTAL																									

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN.	DAY	EVE.
NO. 3	TYPE				
SCREENS CHANGED ☐ YES ☐ NO		2ND BOILER	8	12	4
TOP 50	TOP 50	FUEL 2.2.3			
MIDDLE 50	MIDDLE 50				
BOTTOM 50	BOTTOM 50				

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:45	3/4	12	CIRC CSG. DOWN 58', 689.6 m
00:45	02:30	1 3/4	5	CIRC & COND.
02:30	02:45	1/4	7	RIG SERVICE
02:45	03:30	3/4	22	RIG OUT CIRC SUB & BLOW KELLY
03:30	06:15	2 3/4	23	RIG UP TOP DRIVE TO RUN IN DP. + RIG UP FALSE FLOOR
6:15	08:00	1 3/4	6	MAKE UP STINGER & RUN IN HOLE. Surface Casing: 339.7mm @ 701.3m Float Collar @ 692.6 Casing landed @ 701.3m

NOTES: ✓ Crown Saver, Brakes, Hookblock, Crown & Anchors. BOILER ELECTRIC @ 2:00 & 5:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Disco	9 Sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

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DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	07:05	1 3/4	6	R/U
07:05	10:00	1/4	7	R/S
10:00	11:45	1 3/4	6	R/U WITH STINGER, SPACE OUT & STABS IN
11:45	14:15	2 1/2	5	CIRC CASING
14:15	14:30	1/4	21	SAFETY MEETING ON CEMENTING CASING
14:30	17:00	2 1/2	12	CEMENT CASING
17:00	20:00	3	6	POOH
				Cementing Details: Pressure Test Lines to 5000 psi, Drop Bottom Plug, Mix & Pump 110 m³ 1:1:2 Class G Cement + 0.3% CFR-3 + 0.2% HR-5 + 0.5% D46 Take 8.7 m³ RFC Water to Displace Plug, Displace with 17 m³ Returns, CIP, Full Returns

NOTES: ✓ Brakes, Inspect Crown Saver, Clamp, Air Hose. Bottle Rig Drill @ 10:00, 15:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10	175			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:30	2 1/2	6	R.O.P.E.
22:30	23:00	1/2	23	RIG UP FALSE FLOOR
23:00	23:15	1/4	7	RIG SERVICE
23:15	01:00	1 3/4	14	MAKE BHA DIVERTER

NOTES: ✓ Crown Saver, Brakes, Hookblock, Clamp & Air Hose. BOILER ELECTRIC @ 2:00, 7:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10.5	20°			

FOLD HERE →

111052

LICENCE NO.: SDL-99 | WELL NAME AND NO.: CHEVRON ET AL LIARD K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON CANADA LTD | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K29 - 60° 30'N 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 79 | MONTH 02 | DAY 14

RIG NO. 48 UE

FUEL @ 8:00

RIG 1.64 | DRILLER 31

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	15856
WIND DIRECTION	
ROAD	529218

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	109	152	5" XH	121	GP-100	NATIONAL	234
127	29	X2	106	154	5" XH	133	GP-100	NATIONAL	234
127	38	X3	101	156	5" XH	KELLY	E-1000	EMSCO	254

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																					R&M TO RUN CSG.					
MORN.			1		P½	5¼	¼																			
DAY						3½	¼					4¼									½	3½				
EVE.							¼					3½									¼					
TOTAL																										

TOTALS

	8

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	50	TOP	50
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS/SERVICES

	MORN.	DAY	EVE.
2ND BOILER	8	12	4
FUEL .84			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	NEW DRLG. BHA		.34 m
1	1 BIT SUB	203	1.20 m
1	1 DC	203	8.54 m
			147.00 m
2	DC	279	17.09 m
1	XO		1.34 m
		Make-up	154.43 m
10	DC	203	110.03 m
1	JAR		7.08 m
3	DC	228	27.60 m
1	Float Sub		.84 m
10	Hwdp		109.68 m
	Bha		275.62 m

D.P. | STANDS | m

D.P. | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	RR #4A		1
SIZE (mm)	311		444.5
IADC CODE			
MFG.	HUGHES		SMITH
TYPE	GT-1		HYPERION
SERIAL NO.	479416		H04J780
JETS (mm)	3x14.9		3x12.7
DEPTH OUT (m)			711
DEPTH IN (m)			629
TOTAL METRES DRILLED (m)			152
TOTAL HOURS RUN			15¾

CUTTING STRUCTURE | T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m) 5m

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Desco	1 SX
SawDust	5 SXS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0000	0030	½	6	Pick up DP from Bridge @ 689m
0030	0130	1	3	Break Circ @ 687m Wash To Btm. Safety
0130	0300	1½	5	Circ & Cond. Mud.
0300	0315	¼	7	Rig Service
0315	0800	4¾	6	Pull Out of Hole Pump Pill @ Bha Kelly Hose

NOTES: Crown Saver Function & Lubricate, Crown Check

Boiler Blown Down @ 2:00 + 5:00

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	3	10	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH

D.P. | STANDS | m

D.P. | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE | T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	1130	3½	6	P.O.O.H. Lay Down Stab & Lift Straps Rig Off Hole Opener & Bit Lay Down Same
1130	1500	3½	22	R/Up To Run Csg.
1500	1530	½	21	Safety Meeting
1530	1945	4¼	12	Run 339mm Csg.
1945	2000	¼	7	RIS

NOTES: Brakes, Lwater Crown Saver Clean, Air Hor

Boiler Blow Down @ 1000, 1500

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	12	10.5	175			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH

D.P. | STANDS | m

D.P. | SINGLES | m

KELLY DOWN | m

TOTAL | m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE | T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
2000	2015	¼	21	Safety Meeting Prior To Running Csg.
2015	2330	3¼	7	Rig Service
2330	2400	3½	12	Run Csg. 339.7mm - 101.2 kg/m - K55 Buttress. Jts. 56 Jts Length = 693.6

NOTES: Crown Saver, Brakes & Lubricate Check Motor,

Boiler Blow Down @

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4	10.5	205			

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111051

LICENCE NO.: SDL 99

WELL NAME AND NO.: CHEVRON ETAL LEARD K-29 60° 30'N 123° 30'W

OPERATOR: CHEVRON CANADA

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K29 - 60° 30'N 123° 30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 02 | DAY 13

RIG NO. 48UE

FUEL @ 8:00

RIG 1.14 | BOILER 31

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	127	29	E	108	152	5XH	121	9P100	NATIONAL	254
	127	29	X2	106	154	5XH	135	9P100	NATIONAL	254
	127	38	X3	101	156	5XH	166	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 Pipe Handler	24	25	26
	MORN.			7¾				1/4																		
	DAY			4 3/4		2	5	1/4																		
	EVE.						2¾	1/4														1/4	3/4			
	TOTAL																									

TOTALS

	8
	12
	4

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	50	TOP	50
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS/SERVICES

	MORN.	DAY	EVE
2ND BOILER	8	12	4
FUEL 1.23			

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.34 m
1/1			1.20 m
1			147 m
2			17.09 m
1/1			9.34 m
12			110.03 m
1			7.08 m
3			27.60 m
1			.84 m
12			109.68 m
	BHA		295.62 m
13	D.P.	STANDS	37.37 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		667.04 m

WT. OF DC | 1000 daN

WT. OF STRING | 96 | 1000 daN

BIT RECORD

BIT NO.	RR#4A		1
SIZE (mm)	311		444.5
IADC CODE			
MFG.	HUGHES		SMITH
TYPE	GT-1		HOLE OPENER
SERIAL NO.	779 41C		H041780
JETS (mm)	3 15 9		3 x 12 7
DEPTH OUT (m)			
DEPTH IN (m)			529
TOTAL METRES DRILLED (m)			138
TOTAL HOURS RUN			11

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1150	1145	1150
FUNNEL VIS. - (S/L)	95	110	108
W.L. (cm³)	7.0	7.2	7.0
pH	8.5	9.0	8.5
PVT m³	136	134	130.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Bel	25 5x5
Kelzan	3 5x5
Caust.C	2 5x5
Soda Ash	2 5x5
Sawdust	3 5x5

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1145	1135	1790

CENTRIFUGE 12.3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'D CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
581	667	86	95	0/5

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14000	152	95	152	95

REDUCED PUMP SPEED

Pump #3 Liner @ 152 S.P.M. @ 120

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	07:45	7¾	3	REAM 311mm HOLE TO 444mm HOLE F/ 581m - 667m
07:45	08:00	1/4	7	RIG SERVICE.

NOTES ✓CROWN SAVER, BRAKES/LINKAGE, CLAMP ANCHOR, BOILER BLOW DOWN. @ 3:00, 6:00

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.34 m
1/1	HOLE OPENER		1.20 m
1/1	BIT SUB / STAB	279	1.47 m
2	DC	279	17.09 m
1/1	XO / MONEL	228	9.34 m
12	DC		110.03 m
1	JAR		7.08 m
3	DC	228	27.60 m
1	BLU SUB		.84 m
12	HWDP		109.68 m
		BHA	295.62 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	RR#4A		1
SIZE (mm)	311		444.5
IADC CODE			
MFG.	HUGHES		SMITH
TYPE	GT-1		HOLE OPENER
SERIAL NO.	779 41C		H041780
JETS (mm)	3 15 9		3 x 12 7
DEPTH OUT (m)			711
DEPTH IN (m)			529
TOTAL METRES DRILLED (m)			182
TOTAL HOURS RUN			15 3/4

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	02:00	14:00	18:00
DENSITY kg/m³	1150		
FUNNEL VIS. - (S/L)	121		
W.L. (cm³)	6.5		
pH	8.5		
PVT	124.5		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Kelzan	2 5X
Barite	225X

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'D CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
667	711	44	90	0/5

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14200	152	95	152	95

REDUCED PUMP SPEED

Pump #3 Liner @ 152 S.P.M. @ 120

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	12:45	4¾	3	REAM 311mm HOLE TO 444mm HOLE F/ 667m - 711m
12:45	19:45	2	5	CIRC. WORK PIPE & PUMP HIGH VIS SWEEP
19:45	19:45	5	6	P.OOH PUMP OUT 6 STDS, PUMP PILL, POOH. SURVEY @ 513m, 425m, 336m, 221m (WIRELINE)
19:45	20:00	1/4	7	RIG SERVICE (SERVICE TOP DRIVE)

NOTES ✓BRAKES, LINKAGE, CROWN SAVER, CLAMP ANCHOR, BOILER BLOW DOWN @

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10.5	175			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.34 m
1/1	HOLE OPENER		1.20 m
1/1	DC / STAB	279	1.47 m
2	DC	279	17.09 m
1/1	XO / MONEL	228	9.34 m
12	DC	228	110.03 m
1	JARS		7.08 m
3	DC	228	27.60 m
1	BELL SUB		.84 m
12	HWDP		109.68 m
			295.62 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.	RR#4A		1
SIZE (mm)	311		444.5
IADC CODE			
MFG.	HUGHES		SMITH
TYPE	GT-1		HOLE OPENER
SERIAL NO.	779 41C		H041780
JETS (mm)	3 15 9		3 x 12 7
DEPTH OUT (m)			711
DEPTH IN (m)			529
TOTAL METRES DRILLED (m)			182
TOTAL HOURS RUN			15 3/4

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'D CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:00	2	6	RUN IN HOLE TO 437m.
22:00	22:45	3/4	22	RIG UP LAYDOWN TRUCK & START 30 JOINTS OF F.DP.
22:45	23:00	1/4	21	SAFETY MEETING PRIOR TO PICKING UP DP.
23:00	23:45	3/4	6	PICK UP DC
23:45	24:00	1/4	7	RIG SERVICE

NOTES ✓CROWN SAVER, BRAKES/LINKAGE, CLAMP & ANCHOR.

BOILER

HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10.5	225			

FOLD HERE →

111050

LICENCE NO.: SDL 99 | WELL NAME AND NO.: CHEVRON ETAL LEAHO K-29 60" 30" 125" 30"N

OPERATOR: CHEVRON CANADA LTD | CONTRACTOR: AKITA DRILLING LTD.

SURFACE LOCATION: K-29 60" 30"N 125" 30"N | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H'S Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 03 | DAY 12 | RIG NO. 48UE

FUEL @ 8:00

RIG 1.56 | BOILER 31

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS 13723 | WIND DIRECTION | ROAD 527055

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127 mm	29	E	108	132	5 XH	121	9-P100	NATIONAL	254
127 mm	27	X2	106	134	5 XH	133	9-P100	NATIONAL	254
127 mm	38	X3	101	136	5 XH	160	E-1000	EMSCO	254

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	HANDLE TOOLS	WELD STRAPPING	WEEK END TOUR RIG		
MORN.		2			1¼	9¾	1¼			1¼																
DAY							¼															1	3	1		
EVE.			3½				1¼																			
TOTAL																										

TOTALS: 8

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP		TOP	
MIDDLE	50	MIDDLE	50
BOTTOM	50	BOTTOM	50

RENTALS/SERVICES

	MORN.	DAY	EVE.
2ND BOILER	8	12	4
FUEL 1.66	1		

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	13½ PDC		.34 m
1		REAMER	.90 m
3	DC	228	19.69 m
1	STAB		1.77 m
1	DC 228 STAB		8.84 m
9	DC	228	82.64 m
1	JARS		7.08 m
3	DC	228	27.56 m
1	Bowl Sub		.84 m
12	HWDP		109.71 m
	BHA		249.58 m
15	D.P. STANDS		426.43 m
1	D.P. SINGLES		9.67 m
	KELLY DOWN		3.27 m
	TOTAL		711 m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	479416
JETS (mm)	2x15 19
DEPTH OUT (m)	711
DEPTH IN (m)	529
TOTAL METRES DRILLED (m)	182
TOTAL HOURS RUN	31½

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 0-17 0-16

TORQUE AT BOTTOM: 4600 FT LBS.

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00
DENSITY kg/m³	1140	1140
FUNNEL VIS. - (S/L)	70	65
W.L. (cm³)	7.0	7.5
pH	9.0	8.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	20 SXS
Gel	15 SXS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1140	1130	1820

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
706	711	5	150	1/3

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11600	152	80	152	80

REDUCED PUMP SPEED

Pump #3 @ 152 S.P.M. @ S.P.M.

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
705	3°	N4E

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00⁰⁰	02⁰⁰	2	2	DRILL 311mm HOLE F/ 706m - 711m.
02⁰⁰	03⁰⁰	1	5	CIRC HOLE FOR TRIP.
03⁰⁰	03¹⁵	1¼	10	SURVEY @ 705m.
03¹⁵	03³⁰	1¼	7	RIG SERVICE
03³⁰	03⁴⁵	1¼	5	BRAKE CIRC PRIOR TO TRIP
03⁴⁵	08⁰⁰	4¼	6	PULL OUT TO SHOE PUMP PULSATION VALVE SWAP OUT

NOTES: √ CROWN SAVER, BRAKES, LINKAGE & CLAMP & ANCHOR

BOILER BLOW DOWN @ 8:00, 5:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	13½ PDC		.34 m
1/1	REED CR616	311	1.30 m
1/1	DC/STAB	279	8.54/1.47 m
2	DC	279	17.09 m
1/1	X/O/MONEL	228	.90/9.34 m
12	DC	228	110.03 m
1	JAR		7.08 m
3	DC	228	27.60 m
1	X/O		.84 m
12	HWDP		109.68 m
	BHA		275.67 m
	D.P. STANDS		m
	D.P. SINGLES		m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	E
SIZE (mm)	
IADC CODE	D
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG:

TORQUE AT BOTTOM:

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	STUCK	710:72
DENSITY kg/m³	Pason	711.00
FUNNEL VIS. - (S/L)	DFE	.28
W.L. (cm³)	Dr Hanks	
pH		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08⁰⁰	10³⁰	2½	6	POOH. LAY DOWN 2 STABS
10³⁰	11³⁰	1	22	MONEL & 4 CALIPER HOLE OPENER & BIT SUB
11³⁰	14³⁰	3	23	PICKUP 11" DC's & MOVE UP HOLE OPENER & BIT SUB
			8	W.O. STRAPPING & BIT & HOLE OPENER & BIT SUB
14³⁰	18⁴⁵	4¼	6	R.I.H.
18⁴⁵	19⁴⁵	1	24	WORK on TOP DRIVE
19⁴⁵	20⁰⁰	¼	7	RIS

NOTES: √ BRAKES, LINKAGE, CROWN SAVER, CLAMP, ANCHOR

BOILER BLOW DOWN @ 1400, 1900

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10	225			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	13½ PDC		.34 m
1/1	REED CR616	311	1.30 m
1/1	DC 279/STAB	279	8.54/1.47 m
2	DC 279		17.09 m
1/1	X/O/MONEL 228		.90/9.34 m
12	DC	228	110.03 m
1	JAR		7.08 m
3	DC	228	27.60 m
1	Bowl Sub		.84 m
12	HWDP		109.68 m
	BHA		275.67 m
10	D.P. STANDS		285.63 m
	D.P. SINGLES		m
	KELLY DOWN		m
	TOTAL		581.29 m
WT. OF DC			1000 daN
WT. OF STRING	76		1000 daN

BIT RECORD

BIT NO.	REHA	1
SIZE (mm)	311	444.5
IADC CODE		
MFG.	HUGHES	SMITH
TYPE	GT-1	H41 JETS
SERIAL NO.	479416	1044780
JETS (mm)	3x14	
DEPTH OUT (m)		
DEPTH IN (m)		529
TOTAL METRES DRILLED (m)		52
TOTAL HOURS RUN		3½

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 0-5? 0-5?

TORQUE AT BOTTOM: 400 - 3000 FT LBS.

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	20:00	24:00
DENSITY kg/m³	1145	1145
FUNNEL VIS. - (S/L)	61	60
W.L. (cm³)	7.0	7.0
pH	8.5	8.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1145	1135	1740

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
529	581	52	90	9/2

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10100	152	85	150	84

REDUCED PUMP SPEED

Pump #3 @ 152 S.P.M. @ S.P.M. 120

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20⁰⁰	23⁴⁵	3¾	3	DRILL 311mm HOLE TO 444.5mm CR: 581m - 581m
23⁴⁵	24⁰⁰	¼	7	RIG SERVICE

NOTES: √ CROWN SAVER, BRAKES, LINKAGE, CLAMP & ANCHOR

BOILER BLOW DOWN @ 21:00 00:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10	225			

FOLD HERE →

111049

LICENCE NO.: SOL 99 | WELL NAME AND NO.: CHEVRON K-09 60° 30'N 123° 30'W E.A.L. LEAD

OPERATOR: CHEVRON CANADA | CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60° 30'N 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 97 | MONTH 02 | DAY 11

RIG NO. 45

FUEL @ 8:00

RIG 81 | BOILER 31

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	12738
WIND DIRECTION	
ROAD	526300

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E	108	152	5 XH	121	~~National~~ 9-P-100	NATIONAL	254
127	29	X2	106	154	5 XH	133	9-P100	NATIONAL	254
127	38	X3	101	156	5 XH	160	F-1000	EMCO	254

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.		6			1/2		1/4			3/4																
DAY		10 3/4			1/2		1/4			1/2																
EVE.		3 1/4			1/4		1/4			1/4																
TOTAL																										

TOTALS

8	NO.	TYPE	
12	SCREENS CHANGED ☐ YES ☐ NO		
4	TOP 50	TOP 50	
	MIDDLE 50	MIDDLE 50	
	BOTTOM 50	BOTTOM 50	

SHALE SHAKER(S)

RENTALS/SERVICES

	MORN	DAY	EVE
2ND BOILER.			
BOILER #2 FUEL 2.09m			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.34 m
1	B.S./MILL	311	9.34 m
2	DC	203	18.69 m
1	STAB		1.77 m
1	DC STAB	203	8.94 1.77 m
9	DC	203	82.64 m
1	JARS		7.05 m
3	DC	203	27.56 m
1	BELL SUB		.84 m
12	HWDP		109.71 m
	BHA =		268.58 m
12	D.P.	STANDS	342.08 m
2	D.P.	SINGLES	18.92 m
	KELLY DOWN		9.60 m
	TOTAL		640.18 m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	V7941C
JETS (mm)	3 x 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	529
TOTAL METRES DRILLED (m)	111
TOTAL HOURS RUN	15 1/2

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	0-1T 0-1N
TORQUE AT BOTTOM	2000 FT LBS
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	0200	0400	0600
DENSITY kg/m³	66	1165	1150
FUNNEL VIS. - (S/L)	1150	1155	63
W.L. (cm³)	6.5	7.0	2.0
pH	9.0	9.0	9.0
PVT m³	137.5	138.1	139.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Kelzan	4 5x5
Caustic	1 5x
Detergent	1 pail

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 12 #3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1153	1145	1820

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
583	610	57	150	2/5

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14300	152	80	150	80

REDUCED PUMP SPEED

Pump #3 @ 150 @ 165

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
573	4.1°	N21E
610	4.5°	N15E

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00 30	1/2	6	Circ + Survey @ 573m.
00:30	00 45	1/4	7	Rig Service + Service Top Drive.
00 45	04 30	3 3/4	2	Drill 311mm Hole Fr: 583m - 620m.
04 30	05 00	1/2	5	Circ + Work Pipe Prior To Survey
05 00	05 15	1/4	10	Survey @ 610m.
~~05 15~~	~~08 00~~	~~2 3/4~~	~~2~~	~~Rig Service + Service Top Drive~~
05 15	08 00	2 3/4	2	Drill 311mm Hole Fr: 620m - 640m.

NOTES 1 Crown Saver, Brakes + Linkage, Clamp + Anchor. Boiler Blown Down 3:00, 6:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.34 m
1/1	B.S./MILL	311	.90 9.34 m
2	DC	203	18.69 m
1	STAB		1.77 m
1/1	DC/STAB		8.94 1.77 m
9	DC		82.64 m
1	JAR		7.05 m
3	DC		27.56 m
1	BELL SUB		.84 m
12	HWDP		109.71 m
	BHA =		238.58 m
14	D.P.	STANDS	399.45 m
X	D.P.	SINGLES	9.68 m
	KELLY DOWN		9.29 m
	TOTAL		688 m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	V7941C
JETS (mm)	3 x 15.9
DEPTH OUT (m)	
DEPTH IN (m)	529
TOTAL METRES DRILLED (m)	159
TOTAL HOURS RUN	26 1/4

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	0-1A 0-1N
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	1000	1400	1800
DENSITY kg/m³	1145	1140	1140
FUNNEL VIS. - (S/L)	61	64	70
W.L. (cm³)	7	7	7.2
pH	6.5	9	8.5
PVT	143.6	133.1	148.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Gel	2 5x
Caustic	2 5x
Polymer	4 5x
Soltex	1 5x

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
1	1140	1810	1165

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	1140	1810	1165

DAY TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
640	688	48	180	2/5

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	80	152	80

REDUCED PUMP SPEED

Pump #3 @ 150 @ 110

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
649	4	N15E

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11 45	3 3/4	2	Drill 311mm Hole F/ 640m: 649m
11 45	12 15	1/2	5	Circ. Prior To Survey
12 15	12 45	1/2	10	Survey
12 45	17 15	4 1/2	2	Drill F/ 649m: 678m
17 15	17 30	1/4	7	Rig Service Top Drive
17 30	20 00	2 1/2	2	Drill F/ 678m - 688m

NOTES 1 Brakes, Linkage, Crown Saver, Clamp, Anchor. Boiler Blown Down @ 1400, 1800

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10.5	225		Orientation of New Hands	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.34 m
1	B.S./MILL	311	.90 9.34 m
2	DC	203	18.69 m
1	STAB		1.77 m
1	DC STAB	203	8.94 1.77 m
9	DC	203	82.64 m
1	JARS		7.05 m
3	DC		27.56 m
1	BELL SUB		.84 m
12	HWDP		109.71 m
	BHA		268.58 m
15	D.P.	STANDS	426.55 m
	D.P.	SINGLES	m
	KELLY DOWN		8.70 m
	TOTAL		704.83 m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	4A
SIZE (mm)	311
IADC CODE	
MFG.	HUGHES
TYPE	GT-1
SERIAL NO.	V7941C
JETS (mm)	3 x 15.9
DEPTH OUT (m)	—
DEPTH IN (m)	529
TOTAL METRES DRILLED (m)	177
TOTAL HOURS RUN	29 1/2

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	—
TORQUE AT BOTTOM	Bad 0-1/2S.
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	2100	2400	
DENSITY kg/m³	1140	1140	
FUNNEL VIS. - (S/L)	75	78	
W.L. (cm³)	7.0	7.0	
pH	9.5	8.5	
PVT	149.3	150.1	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 12 #3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1140	1130	1795

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
688	706	18	180	1/4

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	80	152	80

REDUCED PUMP SPEED

Pump #3 @ 150 @ 110

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
676	3.5	N4E

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20 15	1/4	5	Circ + Work Pipe Prior To Survey
20:15	20 30	1/4	7	Rig Service
20 30	20 45	1/4	10	Survey @ 676m.
20 45	24:00	3 1/4	2	Drill 311mm Hole Fr: 688m - 706

NOTES 1 Crown Saver, Brakes + Linkage, Clamp + Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10	225		Winch Ops.	

FOLD HERE →

111047

LICENCE NO.: SDL 99 | WELL NAME AND NO.: CHEVRON ETAL FINLAY K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-29 60° 30' 0" 123° 30' W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

- (1) Daily Walk Around Inspection — Initial / Initial
- (2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
- (3) H²S Signs Posted (if required) — Initial / Initial
- (4) Well License & Stick Diagram Posted — Initial / Initial
- (5) Flare Lines Staked — Initial / Initial
- (6) BOP Drills Performed — Initial / Initial
- (7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

- (1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
- (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
- (3) Mast Inspection Before Raising or Lowering — Initial
- (4) Crown Saver Checked — Initial
- (5) Motor Kills checked PUMP #3 — Initial

YEAR 77 | MONTH 02 | DAY 07 | RIG NO. 48

FUEL @ 8:00

RIG 76 m³ | BOILER 87 m³

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE	30cm °C
CURRENT CONDITIONS	-
WIND DIRECTION	-
ROAD	-

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E75	108	132	5" XH	121	9-P-100	NATIONAL	235
127	29	X57	106	134	5" XH	133	9-P-100	NATIONAL	235
127	34	X57	101	136	5" XH	160	F-1000	EMSCO	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.		7¼					¼			½														
	DAY		7¼					¼			½														
	EVE.																								
	TOTAL																								

TOTALS: 8 / 8

SHALE SHAKER(S): NO. — TYPE — SCREENS CHANGED ☐ YES ☑ NO

TOP	TOP
50	50
MIDDLE	MIDDLE
50	50
BOTTOM	BOTTOM
50	50

RENTALS/SERVICES: 2ND BOWL

	MORN.	DAY.	EVE.
	X	X	X

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	NES		.44 m
½	NES		1.59/425 m
1	Varel	279	1.48/451 m
1	ST. STAB		1.47 m
5	DC	279	43.00 m
1	Bow Mud	228	1.06/9.27 m
1	SAR		2.08 m
14	D.C.	228	128.61 m
1	XO		.84 m
12	HWDP		109.71 m
	BHA		317.64 m
6	D.P.	STANDS	171.61 m
X	D.P.	SINGLES	9.51 m
	KELLY DOWN		8.27 m
	TOTAL		507.03 m

WT. OF DC — 1000 daN

WT. OF STRING: 80 — 1000 daN

BIT RECORD

BIT NO.	3A
SIZE (mm)	444.5
IADC CODE	5 1 5
MFG.	HUGHES
TYPE	MAX 22GD
SERIAL NO.	T22CT
JETS (mm)	3-19
DEPTH OUT (m)	—
DEPTH IN (m)	459
TOTAL METRES DRILLED (m)	48
TOTAL HOURS RUN	8

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG — TORQUE AT BOTTOM — FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	1170	1160	1165
FUNNEL VIS. - (S/L)	84	58	57
W.L. (cm³)			
pH	9	8.5	9
PVT	112.6	118.1	125.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
KELZAN	2 SX
CAUSTIC	3 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE #2

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1165	1155	1810

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
469	507	38	120	15/20

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13100	152	80	152	80

REDUCED PUMP SPEED: PUMP #3 @ 120 SPM to @ 100

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
478	2¼°	

DRILLER SIGNATURE: Scott Logan

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	03:15	3¼	2	DRLG 444mm HOLE FR: 469-478
03:15	03:30	¼	7	RIG SERVICE + SERVICE TOP DRIVE
03:30	04:00	½	2	DRLG 444mm HOLE FR: 478-488
04:00	04:30	½	10	SURVEY @ 478m + CIRC.
04:30	08:00	3½	2	DRLG 444mm HOLE FR: 488-507

NOTES: V-DOOR SLIDE + BEAVER LODGE W/ LOST LINE CLAMP + ANCHOR. BOILER BLOW DOWN @ 0300, 0700

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225°			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	NES		.44 m
½	NES/STAB	279	1.59/425 m
½	STAB/DC	279	1.48/451 m
1	ST. STAB		1.47 m
5	DC	279	43.00 m
½	Bow Mud	228	1.06/9.27 m
1	SAR		2.08 m
14	DC	228	128.61 m
1	XO		.84 m
12	HWDP		109.71 m
	BHA =		317.64 m
7	D.P.	STANDS	200.47 m
1	D.P.	SINGLES	7.36 m
	KELLY DOWN		1.13 m
	TOTAL		529 m

WT. OF DC — 1000 daN

WT. OF STRING: 80 — 1000 daN

BIT RECORD

BIT NO.	3A
SIZE (mm)	444.5
IADC CODE	5 1 5
MFG.	HUGHES
TYPE	MAX 22GD
SERIAL NO.	T22CT
JETS (mm)	3-19
DEPTH OUT (m)	—
DEPTH IN (m)	459
TOTAL METRES DRILLED (m)	70
TOTAL HOURS RUN	15¼

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG — TORQUE AT BOTTOM — FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	0900	1200	1500
DENSITY kg/m³	1160	1160	1155
FUNNEL VIS. - (S/L)	58	53	48
W.L. (cm³)			
pH	8.5	8.5	9.0
PVT m³	133.2	137.6	146.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE #3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1160	1155	1780

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
507	529	22	120	10/20

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
11000			152	120

REDUCED PUMP SPEED: 3 PUMP @ 120 SPM @ 120

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
506	3°	

DRILLER SIGNATURE: Scott Logan

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0300	1100	3	2	DRLG 444mm HOLE FR: 507m - 516m.
1100	1130	½	7	RIG SERVICE + SERVICE TOP DRIVE
1130	1145	¼	10	CIRC + SURVEY @ 516m.
1145	1600	4¼	2	DRLG 444mm HOLE FR: 516m - 529m

NOTES: V-DOOR SLIDE, BEAVER LODGE, CROWN SAVER CLAMP + ANCHOR. BOILER BLOW DOWN @

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10.5	225°			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC — 1000 daN

WT. OF STRING — 1000 daN

BIT RECORD

BIT NO.	3A
SIZE (mm)	444.5
IADC CODE	5 1 5
MFG.	HUGHES
TYPE	MAX 22GD
SERIAL NO.	T22CT
JETS (mm)	3 x 19
DEPTH OUT (m)	529
DEPTH IN (m)	459
TOTAL METRES DRILLED (m)	70
TOTAL HOURS RUN	15¼

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG — TORQUE AT BOTTOM — FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	1800		
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH	9		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ to @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
516	4½	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
1600	1715	1¼	5	WORK P.P.E. + CLEAN HOLE PRIOR TO SURVEY
1715	1730	¼	10	SURVEY
1730	1800	½	5	CIRC. PRIOR TO TRIP
1800	2345	5¾	6	P.O.O.H.
2345	2400	¼	7	R/S

NOTES: V-DOOR BEAVER, LODGE, CROWN SAVER CLAMP + ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10.5	225°			

FOLD HERE →

111046

LICENCE NO.: SD-99

WELL NAME AND NO.: CHEVRON ETAL KINDER K-39 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD.

CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K-39 60° 30' N 123° 30' W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flareless & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 97 MONTH 02 DAY 02

RIG NO. 48

FUEL @ 8:00

RIG 47m³ BOILER 1.11m³

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE	-30 °C
CURRENT CONDITIONS	11440
WIND DIRECTION	
ROAD	524802

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
127	29	E2	108	152	5" XH	121	9-P-100	NATIONAL	235
127	29	X2	106	154	5" XH	133	9-P-100	NATIONAL	235
127	34	X3	101	156	5" XH	160	F-1150	GARDNER	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.							7/4	7 3/4																
	DAY																								
	EVE.		3/4				3	1/4																	
	TOTAL																								

TOTALS 8

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☒ NO

TOP	TOP
50	50
MIDDLE	MIDDLE
50	50
BOTTOM	BOTTOM
50	58

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MBS/SS		.44 m
1	STAB/D.C.	159/228	4.25/9.56 m
1	ST. STAB		1.47 m
5	D.C.	279	43.00 m
1	BAR SUB/D.C.	228	1.06/9.22 m
1	SAR		7.08 m
14	D.C.	228	128.66 m
1	XO		.84 m
12	HWDP		109.71 m
	BHA		317.64 m
4	D.P.	STANDS	114.24 m
X2	D.P.	SINGLES	19.37 m
	KELLY DOWN		8.27 m
	TOTAL		459.54 m
WT. OF DC		1000 daN	
WT. OF STRING	78	1000 daN	

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	S551-J4
SERIAL NO.	87700
JETS (mm)	3-14.3/1-19
DEPTH OUT (m)	459
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	402
TOTAL HOURS RUN	51 1/2

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	2:00
DENSITY kg/m³	1160
FUNNEL VIS. - (S/L)	56
W.L. (cm³)	
pH	8.5
P.V.T.	129.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1160	1155	1620
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
459				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
1500	152		152	100

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	05:45	5 3/4	8
05:45	08:00	1/4	7
0800	0800	2	8

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

WAIT ON PARTS FOR SCR.
RIG SERVICE
REPAIR SCR #1 & #2

NOTES ✓ CROWN SAVER ✓ ANCHOR LAST LINE CHAIN ✓ BEAVERHOUSE
Boiler Blow Down @ 0100, 0400, 0700

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10	225°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	2A	3A
SIZE (mm)	444.5	444.5
IADC CODE		5 1 5
MFG.	REED	HUGHES
TYPE	S551-J4	MAX-2GD
SERIAL NO.	87700	T22CT
JETS (mm)	3-14.3/1-19	3x 19
DEPTH OUT (m)	459	459
DEPTH IN (m)	57	
TOTAL METRES DRILLED (m)	402	
TOTAL HOURS RUN	51 1/2	

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
2	3	BT	H	E	I	N	1	

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ 90 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800	0915	1 1/4	8
0915	1400	4 1/4	6
1400	1615	2 1/4	22
1615	1630	1/4	7
1630	1845	2 1/4	6
1845	1930	3/4	9
1930			~~5~~
1730	2000	4 3	6

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

REPAIR SCR #1+2
PULL OUT OF HOLE & CHANGE BIT
REPAIR ACTUATOR & TOPDRIVE.
RIG SERVICE
RUN IN HOLE
BREAK CIRC @ 230m W/#3 PUMP
~~SHOE~~
RUN IN HOLE TO 230m.

NOTES ✓ CROWN SAVER, BRAKES & HOUSE, CLAMP & ANCHOR.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10	305			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MBS/SS		.44 m
1	STAB/D.C.	159/228	4.25/9.56 m
1	ST. STAB		1.47 m
5	D.C.	279	43.00 m
1	BAR SUB/D.C.	228	1.06/9.22 m
1	SAR		7.08 m
14	D.C.	228	128.66 m
1	XO		.84 m
12	HWDP		109.71 m
	BHA		317.64 m
5	D.P.	STANDS	143.19 m
	D.P.	SINGLES	m
	KELLY DOWN		8.27 m
	TOTAL		469.10 m
WT. OF DC		1000 daN	
WT. OF STRING	80	1000 daN	

BIT RECORD

BIT NO.	3A
SIZE (mm)	444.5
IADC CODE	5 1 5
MFG.	HUGHES
TYPE	MAX-2GD
SERIAL NO.	T22CT
JETS (mm)	3-19
DEPTH OUT (m)	
DEPTH IN (m)	459
TOTAL METRES DRILLED (m)	10
TOTAL HOURS RUN	3/4

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	24:00
DENSITY kg/m³	1160
FUNNEL VIS. - (S/L)	92
W.L. (cm³)	
pH	8.5
P.V.T.	104.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1160	1170	1840
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
459	469	10	150	18

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
12500	152	70	152	70

REDUCED PUMP SPEED

Pump #3 @ 150 @ 100

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	23:00	3	6
23:00	23:45	3/4	2
23:45	24:00	1/4	7

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RUN TO BTM REAM IN BRIDGES FR. 390-459, 25m OF FILL ON BOTTOM.
DRLG 444mm HOLE FR. 459-469
RIG SERVICE.

NOTES ✓ CROWN SAVER ✓ BRAKES ✓ HOUSE ✓ FASTLINE CHAIN ✓ ANCHOR.
Boiler Blow Down @ 2300

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10	210°C			

FOLD HERE →

111045

LICENCE NO.:	WELL NAME AND NO.:
SD 99	CHEVRON ETAL HZ K-29 60°30'N 123°30'W
OPERATOR:	**CONTRACTOR:**
CHEVRON CANADA RESOURCES LTD	ARITA DRILLING
SURFACE LOCATION:	**UNIQUE ID.:**
K-29 60°30'N 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	02	07

RIG NO.: 48

FUEL @ 8:00

RIG: 148m³ BOILER: 2.5m³

WEATHER	
TEMPERATURE	30°C
CURRENT CONDITIONS	F - 1149
WIND DIRECTION	
ROAD	S - S24561

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
							9-P-100	NATIONAL	235
							9-P-100	NATIONAL	235
							F-1000	EMSCO	

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.		3¾				1	¼			½															
	DAY					1½	¾	1½																2½	1½	
	EVE.							¼	3¾																	
	TOTAL		5¾			1½	1¾	3¼			½													2½	1½	

TOTALS	
8	
12	
4	
24	

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

TOP	TOP
50	50
MIDDLE	MIDDLE
50	50
BOTTOM	BOTTOM
50	50

RENTALS/SERVICES | MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	NB3		.44 m
1	5.S.		1.37 4.25 m
1	BHB DC	229	1.91 8.56 m
1	ST. STAB		1.47 m
5	D.C.	279	43.00 m
1	BHB D.C.	228	1.06 9.27 m
1	JAR		7.08 m
14	D.C.	228	128.66 m
1	XO		.84 m
12	HWDP		109.71 m
	BHA		317.64 m
4	D.P.	STANDS	114.26 m
X4	D.P.	SINGLES	19.37 m
	KELLY DOWN		9.27 m
	TOTAL		459.54 m
WT. OF DC			1000 daN
WT. OF STRING		78	1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	S581-J4
SERIAL NO.	87700
JETS (mm)	3-14.3/1-19
DEPTH OUT (m)	—
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	402
TOTAL HOURS RUN	51½

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED		
TIME	2:00	4:00	6:00	
DENSITY kg/m³	1155	1155	1160	
FUNNEL VIS. - (S/L)	55	52	56	
W.L. (cm³)				
pH	8.5	9	8.5	
PVT	155.1	157.7	156.8	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAUSTIC	2 57
DITERGENT	1 PAIL

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2,3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1160	1150	1870

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
411	459	48	180	13½

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9800	152	115	152	115

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
430	1¾°	
449	1⅞°	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:15	2¼	2	DRILL 444mm HOLE FR: 411 - 430
02:15	03:30	¼	7	RIG SERVICE T SERVICE TOP DRIVE
03:30	03:45	1¼	2	DRILL 444mm HOLE FR. 1130-440
03:45	04:15	½	10	CIRC + SURVEY @ 430
04:15	06:30	2¼	2	DRILL 444mm HOLE FR: 440-459
06:30	07:00	½	10	CIRC + SURVEY @ 449
07:00	08:00	1	10	TRIP OUT BIT #2A.

NOTES: ✓CROWN SAVER ✓ANNULAR ✓LAST LWD CHK ✓BRAKE LINKAGE. Boiler Blow Down @ 0200, 0630

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	10.5	235°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	S581-J4
SERIAL NO.	87700
JETS (mm)	3-14.3/1-19
DEPTH OUT (m)	459
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	402
TOTAL HOURS RUN	51½

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED
TIME	09:00	
DENSITY kg/m³	1155	
FUNNEL VIS. - (S/L)	59	
W.L. (cm³)		
pH	9.0	
PVT	143	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2,3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
12	1160	1155	1750

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	0830	½	22	PUMP OUT OF HOLE FR: 459m - 370m.
0830	0900	½	23	WORK ON GEARS
0900	0945	¾	22	PUMP OUT OF HOLE FR: 370m - 320m.
0945	1045	1	5	CIRC + WORK PIPE; CLEAN HOLE.
1045	1130	1¼	22	PUMP OUT OF HOLE FR: 320m - 255.
1130	1215	¾	6	~~CUT + SLIP~~ PULL OUT OF HOLE TO BHA
1215	1315	1	5	CIRC + WORK PIPE; CLEAN HOLE.
1315	1530	2¼	3	RIG SERVICE
1530	2000	4½	8	WAIT ON ELECTRIC TRUCK SR.

NOTES: ✓CROWN SAVER, ✓ANNULAR, ✓BRAKE LINKAGE, ✓CHAIN & ADJUSTER. Boiler Blow Down @ 1000, 1530, 1900

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	10.5	235°C			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	S581-J4
SERIAL NO.	87700
JETS (mm)	3-14.3/1-19
DEPTH OUT (m)	459
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	402
TOTAL HOURS RUN	51½

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED
TIME		24:00
DENSITY kg/m³		1155
FUNNEL VIS. - (S/L)		57
W.L. (cm³)		
pH		9
P.V.T.		179

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1,2,3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1155	1155	1830

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
459				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
1600	152		152	110

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:45	3¾	8	WAITON PARTS FOR SCR.
23:45	24:00	¼	7	R.G SERVICE

NOTES: CROWN ✓ANNULAR ✓BOWL SAVER ✓BRAKE LINKAGE ✓CHAIN ✓ADJUSTER. Boiler Blow Down @ 2230

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	10	235°C			

FOLD HERE →

111044

LICENCE NO.: SOL 99 | WELL NAME AND NO.: CHEVRON ETAL HARO K-29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING.

SURFACE LOCATION: K-29 (60°30'N) 123°30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 93 | MONTH 09 | DAY 02 | RIG NO. 14

FUEL @ 8:00

RIG 1.95m | BOILER 2.57m

WEATHER: TEMPERATURE -22°C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS

PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
9-P-100	NATIONAL	235
9-P-100	NATIONAL	235
F 1000	EMSCO	254

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Top Drive				
MORN.		6					1/2			1																
DAY		8 1/4			1		1/2			1 3/4												1/2				
EVE.		3					1/4			3/4																
TOTAL		17 3/4			1		1 1/4			2 1/2												1/2				

TOTALS: 8 | 17 | 4 | 24

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

	TOP	TOP	
	35	38	50
MIDDLE	34	38	20
BOTTOM	34	38	50

RENTALS/SERVICES | MORN | DAY | EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MILL TOOTH		.44 m
1/1	SMITH/DC	334	159.42 m
1/1	SMITH/DC	311	160.85 m
1	ST STAB		1.47 m
5	D.C.	279	43.00 m
1	BALLING		1.06 m
1	D.C.	228	9.22 m
1	JAR		7.04 m
14	D.C.	228	128.61 m
1	XO		.94 m
			307.93 m
1	H.W.D.P.	STANDS	274.7 m
1	H.W.D.P.	SINGLES	8.95 m
	KELLY DOWN		m
	TOTAL		244.35 m
WT. OF DC			1000 daN
WT. OF STRING		70	1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	5581-J4
SERIAL NO.	87700
JETS (mm)	3+13/16
DEPTH OUT (m)	—
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	187
TOTAL HOURS RUN	32 1/2

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	1110	1100	1040
FUNNEL VIS. - (S/L)	75	63	70
W.L. (cm³)			
pH	8.5	8.5	9.5
PVT	151.3	151.3	150.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAUSTIC	1

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1.93

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1090	1070	1740
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
179	244	65	130	15/20

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
7500	152	110	152	110

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
197	1/4°	
226	1/4°	

DRILLER SIGNATURE: Scott Logan

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:15	2 1/4	2	DRLG 444mm HOLE FR 179-207
02:15	02:45	1/2	10	CIRC & SURVEY @ 197
02:45	3:15	1/2	2	DRLG 444mm HOLE FR: 207-217
03:15	03:45	1/2	7	R.C. SCRUBB + SERVICE TOP DRIVE.
03:45	05:00	1 1/4	2	DRLG 444mm HOLE FR. 217-235
05:00	05:30	1/2	22	WORK TO GET RID OF WASHING ON TOP DRIVE
05:30	06:00	1/2	10	SURVEY @ 226m.
06:00	08:00	2	2	DRLG 444mm HOLE FR: 235-244

NOTES: CROWN SAVER, BRAKE SHE LINKAGE, ANNUAL CHAIN. Boiler Blow Down @ 0400, 0700.

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
Scott Logan	8	10.5	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MILL TOOTH		.41 m
1/1	SMITH/DC	334	159.42 m
1/1	SMITH/DC	311	160.85 m
1	STAB/STAB		1.47 m
5	DC	279	43.00 m
1	BALLING	228	4.82 m
1	DC	228	9.22 m
14	DCs	228	128.61 m
1	XO		.84 m
12	HWDP		109.71 m
	BHA		317.64 m
2	D.P.	STANDS	176.94 m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		369.58 m
WT. OF DC			1000 daN
WT. OF STRING		90	1000 daN

BIT RECORD

BIT NO.	3R
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	5581-J4
SERIAL NO.	87700
JETS (mm)	3+14.3/1-19
DEPTH OUT (m)	—
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	197
TOTAL HOURS RUN	41 1/4

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1100	1110	1120
FUNNEL VIS. - (S/L)	60	60	66
W.L. (cm³)			
pH	8.8	9.0	9.5
PVT m³	142.6	147.2	146.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caust-e	1 sx
Detergent	2 pails
cleaned out sandtrap	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1.23

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
82	1110	1100	1285
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
244	364	120	130	15/20

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9300	152	110	152	110

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
251	1/2°	
280	1°	
309	1°	
336	MISRUN	
345	1/4	

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:45	3/4	2	DRLG FR: 244m - 261m.
08:45	09:15	1/2	5	CIRC & WORK PIPE PRIOR TO SURVEY
09:15	09:30	1/4	10	SURVEY @ 251m
09:30	11:15	1 3/4	2	DRLG FR: 261m - 287m.
11:15	11:45	1/2	5	CIRC & WORK PIPE PRIOR TO SURVEY
11:45	12:00	1/4	10	SURVEY @ 280m
12:00	13:45	1 3/4	2	DRLG FR: 287 - 317m.
13:45	14:15	1/2	7	R.C. SCRUBB + SERVICE TOP DRIVE
14:15	14:30	1/4	10	SURVEY @ 309m
14:30	17:00	2 1/2	2	DRLG FR: 317m - 344m
17:00	17:30	1/2	10	CIRC & SURVEY @ 336m
17:30	18:15	1/4	2	DRLG FR: 344m - 355m

NOTES: CROWN SAVER, BRAKE SHE LINKAGE, ANNUAL CHAIN. Boiler Blow Down @ 1700

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	12	9.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MILL TOOTH		.44 m
1/1	SMITH/SS		159.42 m
1/1	SMITH/D.C.	334	160.85 m
1	ST STAB		1.47 m
5	DC	279	43.00 m
1/1	SMITH/DC	228	16.12 m
14	JAR		7.04 m
14	D.C.	228	126.61 m
1	XO		.94 m
12	HWDP		109.71 m
	BHA		317.64 m
3	D.P.	STANDS	85.45 m
	D.P.	SINGLES	m
	KELLY DOWN		8.27 m
	TOTAL		411.36 m
WT. OF DC			1000 daN
WT. OF STRING		75	1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	5581-J4
SERIAL NO.	87700
JETS (mm)	3-14.3/1-19
DEPTH OUT (m)	—
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	354
TOTAL HOURS RUN	44 1/4

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1135	1125	1130
FUNNEL VIS. - (S/L)	75	59	63
W.L. (cm³)			
pH	8.5	8.5	8.5
PVT m³	145.6	154.6	155.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1.23

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1130	1095	1725
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
364	411	47	150/140	20/26

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
9500	152	110	152	110

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
373	1 1/2°	
H01	1 3/4	

DRILLER SIGNATURE: Scott Logan

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	21:00	1	2	DRLG 444mm HOLE FR: 364-382
21:00	21:30	1/2	10	CIRC + SURVEY @ 373m
21:30	23:30	2	2	DRLG 444mm HOLE FR: 382-411
23:30	23:45	1/4	10	SURVEY @ H01
23:45	24:00	1/4	7	R.C. SERVICE.

NOTES: CROWN SAVER / BRAKE LINKAGE. Boiler Blow Down @ 2300

DRILLER SIGNATURE	BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
	4	10	225°C			

FOLD HERE →

111043

LICENCE NO.: SDL 99 | WELL NAME AND NO.: CHEVRON ETAL HARO K39 60° 30'N 123° 30' W

OPERATOR: CHEVRON CANADA RESOURCES LTD | CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K39 60° 30'N 123° 30'W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well Licence & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 19 | MONTH 02 | DAY 05 | RIG NO. 48

FUEL @ 8:00

RIG 1.33 m | BOILER 1.86 m

WEATHER: TEMPERATURE -30°C | CURRENT CONDITIONS 10069 | WIND DIRECTION | ROAD 523426

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS

PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
9-P-100	NATIONAL	235
9-P-100	NATIONAL	235
F 1000	ENSCO	

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26	TOTALS
OPER.																										
MORN.		7½					½																			8
DAY		9¼			1		1¼			1												1½				12.38
EVE.		3								1																4
TOTAL		19¾			1		3/4			2												1½				24.38

SHALE SHAKER(S): NO. | TYPE | SCREENS CHANGED ☐ YES ☑ NO | TOP 38 | MIDDLE 38 | BOTTOM 38

RENTALS/SERVICES

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.44 m
1	NB STAB		1.59 m
1	SHORT SUB		4.25 m
1	ST STAB		1.81 m
1	D.C.	279	8.56 m
1	ST STAB		1.47 m
5	D.C.	279	43.00 m
1	BELL SUB		1.06 m
1	D.C.	228	9.22 m
1	JAR		7.08 m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		78.44 m
WT. OF DC			1000 daN
WT. OF STRING		45	1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	S581-J4
SERIAL NO.	87700
JETS (mm)	2-14 3/16-19
DEPTH OUT (m)	—
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	21
TOTAL HOURS RUN	14¼

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	2:00	4:00	6:00
DENSITY kg/m³	1055	1060	1055
FUNNEL VIS. - (S/L)	67	70	71
W.L. (cm³)			
pH	9.5	9.5	9.5
PVT	153.4	152.9	152.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
GEL	40 SX
CAUSTIC	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1 2 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1055	1050	1650
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-P CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
67	78	11	50	19/22

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
3100	152	100	152	100

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Hank Lucas

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:00	2	2	DRILL 444mm HOLE FR: 67-71
02:00	02:30	½	7	RIG SERVICE + SERVICE TOP DRIVE.
02:30	09:00	5½	2	DRILL 444mm HOLE FR: 71-78

NOTES: ✓ CROWN SAVER ✓ ANNULAR ✓ FASTLINE CLAMP ✓ BRAKE LINKAGE. Boiler Blow Down @ 0300, 0700

BOILER: HRS. RAN 8 | ph 10 | STACK TEMP. 225°C

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.44 m
1	NB STAB		1.59 4.25 m
1	SHORT SUB		
1	ST. STAB.		1.81 m
1	D.C.	279	8.56 m
1	ST. STAB.		1.47 m
5	DC	279	43.00 m
1	BELL SUB.		1.06 m
1	DC.	228	9.22 m
1	JARS		7.08 m
8	DC	228	64.05 m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		142.53 m
WT. OF DC			1000 daN
WT. OF STRING		62	1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	S581-J4
SERIAL NO.	87700
JETS (mm)	3-14 3/16-19
DEPTH OUT (m)	—
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	85
TOTAL HOURS RUN	23½

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 0-4 ST 0-1½ | TORQUE AT BOTTOM: 9000-87 165 | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1055	1060	1055
FUNNEL VIS. - (S/L)	71	72	70
W.L. (cm³)			
pH	10.0	10.0	9.5
PVT	145.0	146.0	147.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1 2 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1055	1050	1750
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-P CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
78	142.	CH	5/115	15/25

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
5000	152	100	152	100

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
87m	3¼°	
115	½°	

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	0900	1	2	DRILL 444mm HOLE FR: 78 - 87m.
0900	0915	¼	7	RIG SERVICE SERVICE TOP DRIVE.
0915	0130	¼	22	WORK ON AUX COMP W/S DRIVE
0130	1130	2	2	DRILL 87 - 96m
1130	1145	¼	22	DISCOVER A HYDRAULIC MUD SAVER VALVE ON T/D DRIVE
1145	1215	½	6	CIRC + SURVEY @ 87m.
1215	1315	1	2	DRILL FR: 96m - 106m
1315	1345	½	5	CIRC, SHORT TRIP + MIXING COMPOUND.
1345	1600	2¼	2	DRILL 444mm HOLE FR: 106m - 124
1600	1630	½	5	CIRC + WORK PIPE PRIOR TO SURVEY; CONDITION MUD
1630	1700	½	10	SURVEY @ 115m.
1700	2000	3	2	DRILL 444mm HOLE FR: 124 - 142m.

NOTES: ✓ CROWN SAVER, BRAKES + LINKAGE, ANNULAR, CLAMP. Boiler Blow Down @ 1900

BOILER: HRS. RAN 12 | ph 9.5 | STACK TEMP. 225°C

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.44 m
1	NB STAB		1.59 4.25 m
1	SHORT SUB		
1	ST. STAB.		1.81 m
1	D.C.	279	8.56 m
1	ST. STAB		1.47 m
5	D.C.	279	43.00 m
1	BELL SUB		1.06 m
1	D.C.	228	9.22 m
1	JAR		7.08 m
13	D.C.	228	101.57 m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		179.53 m
WT. OF DC			1000 daN
WT. OF STRING		65	1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	S581-J4
SERIAL NO.	87700
JETS (mm)	3-14 3/16-19
DEPTH OUT (m)	—
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	122
TOTAL HOURS RUN	26½

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1055	1060	1070
FUNNEL VIS. - (S/L)	70	62	54
W.L. (cm³)			
pH	9.5	9.5	9.5
PVT	148.0	148.3	145.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1 2 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1070	1055	1720
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-P CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
142	179	37	130/150	18/20

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
5200	152	100	152	100

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
142	½°	
170	½°	

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	20:30	½	10	CIRC + SURVEY @ 142m
20:30	23:30	3	2	DRILL 444mm HOLE FR: 142-179
23:30	24:00	½	10	CIRC. + SURVEY @ 170

NOTES: ✓ CROWN SAVER / BRAKE LINKAGE / FASTLINE CLAMP / ANNULAR. Boiler Blow Down @ 2300

BOILER: HRS. RAN 4 | ph 10 | STACK TEMP. 225°C

MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

EVENING TOUR

FOLD HERE →

111042

LICENCE NO.	WELL NAME AND NO.
SD 99	CHEVRON ETAL LIARD K29 60°30'N 123°30'W
OPERATOR	**CONTRACTOR**
CHEVRON CANADA RESOURCES LTD	AKITA DRILLING
SURFACE LOCATION	**UNIQUE ID.**
K29 60°30'N 123°30'W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	02	04

RIG NO. 48

FUEL @ 8:00

RIG 1.0m³ BOILER 30cm

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	-6° 9611
WIND DIRECTION	
ROAD	S - 522972

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS

PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
9-P-100	NATIONAL	335
9-P-100	NATIONAL	235
F 1000	EMSCO	

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.		7¼					¼															TIGHTEN BOLTS ON F				
DAY		5¾			3	2½	¾			¼												½	¼			
EVE		3¾					¼																			
TOTAL		16¾			3	2½	1¼			¼												½	¼			

TOTALS	SHALE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
8	NO. TYPE				
10	SCREENS CHANGED ☐ YES ☑ NO				
4	TOP 38 / MIDDLE 38 / BOTTOM 38	TOP 38 / MIDDLE 38 / BOTTOM 38			
24					

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.44 m
1	NB STAB		1.59 m
1	SHOCK SUB		4.25 m
1	ST. STAB		1.61 m
1	D.C.	279 mm	8.56 m
1	ST. STAB		1.47 m
4	D.C.	279 mm	34.35 m
½	XO		.20 m
1	XO		1.06 m
			53.73 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
D.P.	KELLY DOWN		4.27 m
	TOTAL		58.00 m
WT. OF DC			1000 daN
WT. OF STRING		37	1000 daN

BIT RECORD

BIT NO.	RR#1A
SIZE (mm)	444.5
IADC CODE	
MFG.	SECURITY
TYPE	S44F
SERIAL NO.	495679
JETS (mm)	3-17.5
DEPTH OUT (m)	—
DEPTH IN (m)	0
TOTAL METRES DRILLED (m)	54
TOTAL HOURS RUN	12

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
4	5	WT	A	3	I	SH	PR	4.5

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	0200	0400	0600
DENSITY kg/m³	1060	1050	1050
FUNNEL VIS. - (S/L)	40	42	46
W.L. (cm³)			
pH	10	10	9.5
P.V.T	123.4	131.9	130.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
GEL	40
SAWDUST	3

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1 2 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1050	1050	1040
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
38	54	18	55/40	5/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
2100	152	90	152	80

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:45	2¾	2	DRLG 444mm HOLE FR: 38-50 (REAMED FR: 44-50)
2:45	03:15	½	22	TIGHTEN BOLTS ON FLANGE OF TOP DRIVE ON DERRICK.
03:15	07:45	4½	2	DRLG 444mm HOLE FR: 50-54m (CHANGE DRILLING
07:45	08:00	¼	7	R.G SERVICE FOR ADJUMP.

NOTES

✓ CROWN SAVER ✓ BRAKES, LINKAGE ✓ EAST, LOCK ✓ MAST, R. BOILER BLOW DOWN @ 0300, 0700 #2 BOILER TEST AT 1900

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	225°C	45 000		

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.44 m
NR	NB STAB		1.59 m
1	SS		4.25 m
1	SHOCK SUB		1.61 m
1	DC	279	8.56 m
1	ST. STAB		1.47 m
5	DC	279	43.00 m
1	XO		1.06 m
			62.18 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		62.18 m
WT. OF DC			1000 daN
WT. OF STRING		41	1000 daN

BIT RECORD

BIT NO.	RR#1A	2A
SIZE (mm)	444.5	444.5
IADC CODE		
MFG.	SEC.	REED
TYPE	S44C	S581-J4
SERIAL NO.	485679	877100
JETS (mm)	3-17.5	3-NJ3-19
DEPTH OUT (m)	57	—
DEPTH IN (m)	0	57
TOTAL METRES DRILLED (m)	57	8
TOTAL HOURS RUN	12¾	4

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
4	5	WT	A	3	I	SH	PR	4.7

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	0900	1200	1500
DENSITY kg/m³	1050	1050	1050
FUNNEL VIS. - (S/L)	45	44	40
W.L. (cm³)			
pH	9.5	9.5	9.5
P.V.T	139.6	144.0	134.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Gel	40 5x5

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1 2 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
8	1050	1050	1740
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
54	62	8	30/10	6/12

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
2200	152	90	152	90

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
53	3/4	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:45	¾	2	DRLG FR: 54m - 57 m.
08:45	09:30	¾	5	CIRC. HOLE PRIOR TO SURVEY (CHANGE TONG)
09:30	09:45	¼	10	SURVEY @ 53m.
09:45	10:00	¼	23	WAIT ON GEARS FOR TOP DRIVE.
10:00	11:30	1½	5	CIRC. PRIME TO POOH + CHANGE TONGS BACK
11:30	14:00	2½	6	POH OUT + CHANGE BIT
14:00	14:45	¾	5	BREAK CIRC. + WASH TO BTM.
14:45	15:00	¼	7	RIG SERVICE.
15:00	20:00	5	2	DRLG 444mm HOLE FR: 57m - 62m.

NOTES

✓ CROWN SAVER, BRAKES, LINKAGE; CLAMP, + ANCHOR. BOILER BLOW DOWN @

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.0	225°			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.44 m
1	NB STAB		1.59 m
1	SHOCK SUB		4.25 m
1	ST. STAB		1.81 m
¾	D.C.	279	8.56 m
1	ST. STAB		1.47 m
5	DC.	279	43.00 m
1	BOWL		1.06 m
			62.18 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
D.C	KELLY DOWN		4.82 m
	TOTAL		67.00 m
WT. OF DC			1000 daN
WT. OF STRING		41	1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	444.5
IADC CODE	
MFG.	REED
TYPE	S581-J4
SERIAL NO.	877100
JETS (mm)	3-NJ3-19
DEPTH OUT (m)	—
DEPTH IN (m)	57
TOTAL METRES DRILLED (m)	10
TOTAL HOURS RUN	7¾

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☐ WATER BASED	☐ OIL BASED	
TIME	1800	2700	2400
DENSITY kg/m³	1050	1055	1055
FUNNEL VIS. - (S/L)	46	46	49
W.L. (cm³)			
pH	9.5	9	9
P.V.T	157.8	157.8	155.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE 1 2 3

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1055	1050	1870
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
62	67	5	50/70	14/20

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
2400	152	90	152	90

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	23:15	3¼	2	DRLG 444mm HOLE FR: 62-67
23:45	24:00	¼	7	R.G SERVICE

NOTES

✓ CROWN SAVER ✓ BRAKE LINKAGE ✓ EAST, LOCK ✓ MAST, R.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

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111041

LICENCE NO.: | WELL NAME AND NO.: CHEVRON ET AL LIARD K29 60°30'N 123°30'W

OPERATOR: CHEVRON CANADA RESOURCES | CONTRACTOR: AKITA DRILLING

SURFACE LOCATION: K29 60° 30'N 123° 30' W | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. Initial / R.M. Initial)

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 02 | DAY 03

RIG NO. 44

FUEL @ 8:00

RIG 1.26m | BOILER 36cm

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	9358
WIND DIRECTION	
ROAD	ASS - 522720

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.	3				1																Rig to Spud	BHA	Circ Hole	Work Hole		
DAY		4¾				4½	¼			¼												4	1¼	1		
EVE.					½	2¼	¼															2½				
TOTAL	3	4¾			1½	3¼	½			¼												6½	1¼	1		

TOTALS

8			
10.	TOP 3¾	TOP 3¾	
4	MIDDLE 3¾	MIDDLE 3¾	
7¼	BOTTOM 3¾	BOTTOM 3¾	

SHALE SHAKER(S) — NO. | TYPE

SCREENS CHANGED ☐ YES ☑ NO

RENTALS/SERVICES — MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			44 m
1	Bit Sub		1.73 m
2	11" D.C	279	17.27 m
1	Bit Sub		1.06 m
1	XO		.30 m
1	XO		1.06 m
			20.76 m
1	X3 D.P.		9.67 m
-			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	# 1A
SIZE (mm)	444.5
IADC CODE	
MFG.	Security
TYPE	S446
SERIAL NO.	485679
JETS (mm)	3 - 17.5
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:00	2	1/2	Rig to Spud
02:00	06:00	4	23	Make up BHA
06:00			1	Make up S Pipe Recovery + Rig upkeep
	07:00	1	1	Hose
7:00	08:00	1	5	Break Circ. Fill Conductor + mud lines + B/T Diverter @ 1000 kPa.

NOTES: Baker Blow Down @ 06:00

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	275°C			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.44 m
1	NB		1.59 m
1	Stab Sub		4.25 m
1	Stab. Sub		m
1	Bit Sub		.73 m
2	9¾" D.C.'s		17.27 m
1	Bit Sub		1.06 m
			m
			m
			m
1	X3 DP		9.67 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	Pick Up.		1.51 m
	TOTAL		38.88 m
WT. OF DC			1000 daN
WT. OF STRING	12 000		1000 daN

BIT RECORD

BIT NO.	# 1A
SIZE (mm)	444.5
IADC CODE	
MFG.	Sec.
TYPE	S446
SERIAL NO.	485679
JETS (mm)	3 + 17.5
DEPTH OUT (m)	38
DEPTH IN (m)	0
TOTAL METRES DRILLED (m)	38
TOTAL HOURS RUN	4¾

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
1	2	N	-	2	I	N	BHA	8

HOLE CONDITION

HOLE DRAG: 0
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
38				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
1000	152	70	152	80

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
27	1/2	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:15	1¼	2	SPUD @ 08:00 + Drill F/ 0 - 20m.
09:15	10:15	1	21	Change Torque Tube.
10:15	11:15	1	2	Drill F/ 20 - 30m
11:15	11:45	½	25	Work Through Boulders
11:45	12:00	¼	7	Rig Service
12:00	12:15	¼	24	Bolts + Safety Pins on Top Drive
12:15	14:45	2½	2	Drill F/ 30m - 38m.
14:45	15:15	½	25	Work Hole (Boulders) Prep to Survey
15:15	15:30	¼	10	Survey @ 27m.
15:30	20:00	4½	6	Pull out + Pick up Stabilizers.

NOTES: Baker Blow Down @ 14:00 Hrs.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.5	230°			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.44 m
1	NB Stab		1.59 m
1	Stack Sub		4.25 m
1	ST Stab		1.81 m
1	DC.		9.56 m
1	ST Stab		1.47 m
1	D.C.		9.44 m
1	D.C.		9.64 m
1	XO		.90 m
1	XO		1.64 m
			37.74 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING	10 [illegible]		1000 daN

BIT RECORD

BIT NO.	#1A
SIZE (mm)	444.5
IADC CODE	
MFG.	Security
TYPE	S446
SERIAL NO.	485679
JETS (mm)	3 + 17.5
DEPTH OUT (m)	38
DEPTH IN (m)	0
TOTAL METRES DRILLED (m)	38
TOTAL HOURS RUN	4¾

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	23:00
DENSITY kg/m³	44
FUNNEL VIS. - (S/L)	105 0
W.L. (cm³)	
pH	9.5
	PVT 138

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
38				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
2100	152	90	152	80

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	22:30	2½	23	Make up 11" BHA.
22:30	23:00	½	5	Break Circulation + Clean To Bottom.
23:00	23:45	¾	6	Make up Stand in Derrick.
23:45	24:00	¼	7	R.C. Service.

NOTES: C/ Crown Saver ✓ Blowdown Choke Manifold ✓ Boiler Blow Down @ 2300

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.0	225°C			

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111040

LICENCE NO.:

WELL NAME AND NO.: CHEVRON ET AL LAIRD

OPERATOR: Chevron Can. Res.

CONTRACTOR: ARITA DRILLING LTD

SURFACE LOCATION: K-79 60° 30'N 123° 30'W

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H^2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 79 MONTH 02 DAY 02

RIG NO. 48

FUEL @ 8:00

RIG 144 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26	TOTALS
	MORN.	6													2											
	DAY														8											
	EVE.	6½													1½						1½					
	TOTAL																									

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☑ YES ☐ NO

TOP 38 TOP 38

MIDDLE 38 MIDDLE 38

BOTTOM 38 BOTTOM 38

RENTALS/SERVICES

	MORN.	DAY	EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Gel	55sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00⁰⁰	05⁰⁰	5	1	TIGHTEN UP T BAR ON TORQUE TUBE / TORQUE UP TOP DRIVE QUILL / NIPPLE UP DIVERTER
0500	0700	2	14	NIPPLE UP DIVERTER

NOTES: DRILLER BLOW DOWN @ 0100

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	8.5	225			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	16:00	8	14	NIPPLE UP DIVERTER + RIG IN FLOWLINE (WELD EXTENSION ON TO FLOW T.) RIG IN RELIEF LINE FROM DIVERTER TO FLARE P.T.

NOTES: Boiler Blow Down @ 08:00, 1730

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	8	225°C			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:30	½	14	RIG DIVERTER LINE TO FLARE PIT
16:30	17:30	1	21	HELD SAFETY MEETING W/ CREW CHANGE
17:30	24:00	6½	1	PICK UP KELLY CURB TOP DRIVE INSTALL TOP DRIVE CURB + HOSES GO THROUGH #1 MUD PUMP SUCTION SCREEN DRESS DRILLING LINE

NOTES

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	8	225°C			

FOLD HERE →

111039

LICENCE NO.:

WELL NAME AND NO.: CHEVRON ET AL LUARD K-27

OPERATOR: CHEVRON CANADA RESOURCES

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: K-27 60° 30' 123° 30'

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) HFS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 97 | MONTH 02 | DAY 01

RIG NO. 48UE

FUEL @ 8:00

RIG 1,5,9 | BOILER

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS

PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26	TOTALS
	MORN.																									
	DAY																									
	EVE.																									
	TOTAL																									

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	08:00	8	1

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RIG UP TOP DRIVE

NOTES: BOUCE BLOCK DOWN @ 00:00

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	9.5	205°			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	1

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RIG UP D.C. POWER CABLES TO TOP DRIVE + HYDRAULIC LINES / CHANGE FITTINGS TO MAKE HOSES FIT. / RIG UP BOWL + CIRCULATES

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	9.3	225°			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
CAUSTIC SODA	25K
GEL	60 50

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	24:00	4	1

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TIGHTEN UP TUBULAR BUCKLES ON TRAVELLING + TRAVELLING STOP. FLAT PROBLEM W/ TOP DRIVE

NOTES: BOUCE BLOCK DOWN

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4	9.0	225			

FOLD HERE →

111038

LICENCE NO.:	WELL NAME AND NO.:
	CHEVRON ET AL LAND
OPERATOR:	CONTRACTOR:
CHEVRON CANADA RESOURCES	AKITA DRILLING LTD
SURFACE LOCATION:	UNIQUE ID.:
K-39 10° 30' N 123°30' W	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
19	07	31

RIG NO. 48

FUEL @ 8:00

RIG 1.74 | BOILER

WEATHER	
TEMPERATURE	°C
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB: TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																								
	DAY																								
	EVE.																								
	TOTAL																								

TOTALS

SHALE SHAKER(S)

NO.	TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN.	DAY.	EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED	
TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	1	RIG UP TORQUE TUBE

NOTES BOILER BLOW DOWN @ 0200, 0600

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8	8.0	275			

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED	
TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	1	RIG UP TOP DRIVE

NOTES Boiler Blow Down @ 1200, 1900

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12	8.5	275°			

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED	
TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	1	RIG UP TOP DRIVE

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

111037

LICENCE NO.: | WELL NAME AND NO.: CHEVRON ET AL LUNDE 2-24 HZ

OPERATOR: CHEVRON CANADA RESOURCES | CONTRACTOR: ALBERTA DRILLING

SURFACE LOCATION: K-4 60° 30' W 123° 30' | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY: 97 | 11 | 17

RIG NO.: 42

FUEL @ 8:00

RIG: 1.7 | BOILER:

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																										
MORN.																										
DAY																										
EVE.																										
TOTAL																										

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	1	RIG UP WATER LINES & FLOOR WATER CIRCULATING

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
9					

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	20:00	12	1	UNBRIDLE BLOCKS, RIG UP ROTARY TABLE CHAIN, PICK UP SWIVEL, RIG UP FLOOR.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
9					

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	24:00	4	1	RUN POWER CORDS F/ S.C.R. TO TOP DRIVE UNIT

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
9					

FOLD HERE →

111036

LICENCE NO.:	WELL NAME AND NO.:
OPERATOR:	CONTRACTOR:
SURFACE LOCATION:	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY

RIG NO.:

FUEL @ 8:00

RIG | BOILER

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.						
MORN.																											
DAY																											
EVE.																											
TOTAL																											

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE

T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Brent Lemire

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
09:00			

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

PREPARE + INSPECT DERRICK TO RAISE
RAISE DERRICK @ 13:00 HRS | RIG UP
FLOOR PIPES + PUT ON FLOOR TARPS

NOTES Baker Fluids @ office 1400

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
4					

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE

T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Dustin Letts

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	1

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RIG UP STEP 4 TOUR'S. REMOVE CENTRIPIPES.
SPACE BUT 4 MOTORS/TESTS. INSTALL FLOOR PIPES
+ RIG BACK UP.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE

T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
20:00	7:00		

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

REST HRS ON PIPING
+ BOILER. BLOW BACK
LINES, PREMIX TANKS.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

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111035

LICENCE NO.: | WELL NAME AND NO.: MARTEN FALLS UNIT K-1

OPERATOR: HUSKY OIL CANADA RESOURCES | CONTRACTOR: H.W.S. DRILLING

SURFACE LOCATION: K-29 - N60° 30' W 123° | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR | MONTH | DAY: 77 | 03 | 27

RIG NO.: 4

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.																									
DAY																									
EVE.																									
TOTAL																									

TOTALS

SHALE SHAKER(S)

NO. | TYPE
SCREENS CHANGED ☐ YES ☐ NO
TOP | TOP
MIDDLE | MIDDLE
BOTTOM | BOTTOM

RENTALS/SERVICES — MORN. | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	1

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

PLUG W/ CORES / FINISH CRANE WORK. O/ RIG / START CAT DSTART + START 398 CAT + POWER UP.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	20:00	12	1

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

PLUG W/ CORES, PICK UP CENTRIFUGES
RIG UP 3½" ALUMINUM PIPE FROM WATER JETTERS
SPOOL LINE ON DRUM & TIGHTEN UP ANCHOR
RIG UP LIGHTS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DO NOT TO LOG OUT HOLE LOST TIME 7 HOURS END FOR SCR MECHANIC. END WAIT PUMP TO START BY CREW OUT LOCK.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

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111034

LICENCE NO.:	WELL NAME AND NO.:
	CALROSE ET AL CHIP K-24
OPERATOR:	CONTRACTOR:
CALROSE CANADA RESOURCES	AKITA DRILLING
SURFACE LOCATION:	UNIQUE ID.:
K-1	
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H^2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR	MONTH	DAY
99	01	29

RIG NO. 4/9

FUEL @ 8:00

RIG | BOILER

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																										
MORN.																										
DAY	1	12																								
EVE.																										
TOTAL	12																									

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)
HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	1	SPOT BACK SHACKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)
HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2000	12	1	PUL DERRICK TO SUB, INSTALL CATWALK SPOOL BLOCKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_I	T_O	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)
HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

FOLD HERE →

111033

LICENCE NO.: | WELL NAME AND NO.: CHEVRON ET AL HZ KAYBOB S-K/H-K

OPERATOR: NEXEN (CNOOC RESOURCES) ULC | CONTRACTOR: Ensign Drilling Ltd

SURFACE LOCATION: 14-10-30-13W5M | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR | MONTH | DAY: 17 | 07 | 22

RIG NO.: 155

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	PIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.																										
DAY																										
EVE.																										
TOTAL																										

TOTALS

SHALE SHAKER(S): NO. | TYPE; SCREENS CHANGED ☐ YES ☐ NO; TOP | TOP; MIDDLE | MIDDLE; BOTTOM | BOTTOM

RENTALS/SERVICES | MORN. | DAY | EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2600	12	1	SPOT SUBS & PWL. INSTALL DRWK WORKS & DOGHOUSE PWL DERRICK & INSTALL MONKEY BOARD

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800	2600	12	1	SPOT SUBS & PWL. INSTALL DRWK WORKS & DOGHOUSE PWL DERRICK & INSTALL MONKEY BOARD

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO. | SIZE (mm) | IADC CODE | MFG. | TYPE | SERIAL NO. | JETS (mm) | DEPTH OUT (m) | DEPTH IN (m) | TOTAL METRES DRILLED (m) | TOTAL HOURS RUN

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME | DENSITY kg/m³ | FUNNEL VIS. - (S/L) | W.L. (cm³) | pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

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111032

LICENCE NO.:	WELL NAME AND NO.: CHEVRON ET AL LAIRD K-29
OPERATOR: CHEVRON CDN RES.	CONTRACTOR: ARTA DRILLING LTD
SURFACE LOCATION: K-29 60° 30'N 123° 30'W	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 07 | DAY 25

RIG NO.

FUEL @ 8:00

RIG | BOILER

WEATHER

TEMPERATURE	°C
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																								
	DAY																								
	EVE.																								
	TOTAL																								

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE.

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.

SIZE (mm)

IADC CODE

MFG.

TYPE

SERIAL NO.

JETS (mm)

DEPTH OUT (m)

DEPTH IN (m)

TOTAL METRES DRILLED (m)

TOTAL HOURS RUN

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

MORNING TOUR

DAY TOUR

(Same DRILLING ASSEMBLY, BIT RECORD, MUD RECORD, MUD MATERIALS ADDED, SOLIDS CONTROL, HOLE CONDITION, METRES DRILLED, REDUCED PUMP SPEED, DEVIATION SURVEY, DRILLER SIGNATURE, TIME LOG, DETAILS OF OPERATION IN SEQUENCE AND REMARKS, NOTES, BOILER / MAXIMUM EXPERIENCED HOOKLOAD / SAFETY TOPIC / M.A.C.P. tables as above)

TIME LOG entry: FROM 2000 TO 2000 — RIG MATTING.

EVENING TOUR

(Same DRILLING ASSEMBLY, BIT RECORD, MUD RECORD, MUD MATERIALS ADDED, SOLIDS CONTROL, HOLE CONDITION, METRES DRILLED, REDUCED PUMP SPEED, DEVIATION SURVEY, DRILLER SIGNATURE, TIME LOG, DETAILS OF OPERATION IN SEQUENCE AND REMARKS, NOTES, BOILER / MAXIMUM EXPERIENCED HOOKLOAD / SAFETY TOPIC / M.A.C.P. tables as above)

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111031

LICENCE NO.:	WELL NAME AND NO.:
	CHEVRON ET AL LINED K-29
OPERATOR: CHEVRON CAN. Ltd	CONTRACTOR: AKITA DRILLING
SURFACE LOCATION: K-29 60° 30' N. 113° 30' W	UNIQUE ID.:
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
84	02	24

RIG NO.

FUEL @ 8:00

RIG	BOILER

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	W/RE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.																										
DAY																										
EVE.																										
TOTAL																										

TOTALS

SHALE SHAKER(S)

NO.	TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES

MORN.	DAY.	EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800			

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800	1000	12	

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

ASSEMBLE DERRICK SECTIONS PIN SHAKERS. SPOT WELL SITE TRAILERS. LAY PLANK ON PILING.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

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111030

LICENCE NO.:

WELL NAME AND NO.: CHEVRON RT A LINED K-29

OPERATOR: CHEVRON

CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION:

UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE:

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. Initial / R.M. Initial

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well Licenses & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR: 98 MONTH: 01 DAY: 23

RIG NO.: 48

FUEL @ 8:00

RIG: BOILER:

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

WEATHER

TEMPERATURE °C	CURRENT CONDITIONS	WIND DIRECTION	ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																								
	DAY																								
	EVE.																								
	TOTAL																								

TOTALS

SHALE SHAKER(S)

NO. TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP TOP

MIDDLE MIDDLE

BOTTOM BOTTOM

RENTALS/SERVICES — MORN. DAY EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE: T_i T_o MDC LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
7:00	20:00		

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

TRAVEL TO LOCATION
OFF LOAD TRUCKS @
CHEVRON LEASE.

FRIDAY JAN 22/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE: T_i T_o MDC LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
7:00	20:00		

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

MOVE CAMP FROM PREV LOCATION TO LEASE LOCATION

SAT JAN 23/99

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE: T_i T_o MDC LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

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LICENCE NO.: | WELL NAME AND NO.:

OPERATOR: CHEVRON | CONTRACTOR: ATCO Drilling

SURFACE LOCATION: | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR: 23 | MONTH: SEP | DAY: 23

RIG NO.: 44

FUEL @ 8:00

RIG: | BOILER:

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.																								
	DAY																								
	EVE.																								
	TOTAL																								

TOTALS

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP | TOP

MIDDLE | MIDDLE

BOTTOM | BOTTOM

RENTALS/SERVICES

	MORN.	DAY	EVE.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Mark Lee

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
FRIDAY JAN/23	TRAVEL TO LOCATION, OFF LOAD MOST TRUCKS @ LOCATION		

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Mark Lee

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800	2000	12	

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

SAT JAN/23

MOVE CAMP FROM RIG# LOCATION TO LEASE LOC.

SAFETY MEETING PRIOR TO MOVE.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

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111028

LICENCE NO.: | WELL NAME AND NO.:

OPERATOR: | CONTRACTOR:

SURFACE LOCATION: | UNIQUE ID.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 01 | DAY 20 21

RIG NO. 48

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26	TOTALS
OPER.																										
MORN.																										
DAY																										
EVE.																										
TOTAL																										

SHALE SHAKER(S)

NO. | TYPE

SCREENS CHANGED ☐ YES ☐ NO

TOP	TOP
MIDDLE	MIDDLE
BOTTOM	BOTTOM

RENTALS/SERVICES | MORN. | DAY | EVE.

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

WEDNESDAY JAN 20/99
HOLD SAFETY MEETING PRIOR TO MOVE.
LOAD OUT R.G RUNS FROM TALISMAN LOCATION

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

THURSDAY JAN 21/99
HOLD SAFETY MEETING PRIOR TO MOVING OUT TRUCKS.

LOAD OUT R.G RUNS FROM TALISMAN LOCATION + CREW UP HOUSE.

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		

WT. OF DC | 1000 daN

WT. OF STRING | 1000 daN

BIT RECORD

BIT NO.			
SIZE (mm)			
IADC CODE			
MFG.			
TYPE			
SERIAL NO.			
JETS (mm)			
DEPTH OUT (m)			
DEPTH IN (m)			
TOTAL METRES DRILLED (m)			
TOTAL HOURS RUN			

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

~~Jan 20 - Feb 28~~

Jan 20/99 - Jan 30/99

1861

Land K-29

Jan 20/99 - Feb. 28/99