LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	ROLF REULE

DAILY CHECKS

	OPR	R.M
(1) Daily Walk Around Inspection	BP	RR
(2) Detailed Inspection - Weekly (Using Check List)	BP	RR
(3) H2S Signs Posted if Required	BP	RR
(4) Well Licence & Stick Diagram Posted	BP	RR
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1) Rig Site Health & Safety Meeting (one/crew/month)		RR
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		RR
(3) Meet Inspection before Raising or Lowering		RR
(4) Crown Saver Checked		RR
(5) Motor Kills Checked		RR

YEAR 2004 MONTH 2 DAY 28

RIG NO. 37

FUEL @ 08.00 HRS

RIG | BOILER

WEATHER: TEMPERATURE; CURRENT CONDITIONS; WIND DIRECTION; ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
							8P80	NATIONAL	216
							8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

CODE NO: 1 RIGUP & TEARDOWN; 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 WIRELINE LOGS; 12 RUN CSG & CEMENT; 13 WAIT ON CEMENT; 14 NIPPLE UP B.O.P.; 15 TEST B.O.P.; 16 DRILLSTEM TEST; 17 PLUG BACK; 18 SQUEEZE CEMENT; 19 FISHING; 20 DIR. WORK; 21 SAFETY MEETING; 22; 23; 24 INSTALL WELL HEAD; 25; 26

MORN.	5.75						0.25																2.00						
DAY	8.00																												
EVE	8.00																												
TOTAL	21.75						0.25																2.00						

TOTALS	SHALE SHAKER(S)				RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO.	TYPE SWACO		TYPE	LOADER	14050	14068	14092
8.00	SCREENS CHANGED		NEW/ USED			14116	14140	14164
8.00	TOP	175	TOP	175		14188	14564	14588
8.00	MIDDLE		MIDDLE			14610	14635	14658
24.00	BOTTOM	110	BOTTOM	110		14682		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
	BIT	O.D.
	D.P.	STANDS
	D.P.	SINGLES
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD

BIT NO.; SIZE; IADC CODE; MANUFACTURER; TYPE; SERIAL NO.; JETS; DEPTH OUT (m); DEPTH IN (m); TOTAL DRILLED (m); TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY; FLUID LOSS (cm3); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	220	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ ; @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	400	4.00	1	FINUISH RIG OUT BOPS HOIST SINGLE GATE AND LAY OUT SINGLE
				GATE WITH THE HELP OF LOADER RIG OUT BLEED OFF LINES AND
				FLARE LINES AND DEGASSER LINES AND FLARE TANK AND DEGASSER
				TANK AND HYDRAULIC LINES
400	600	2.00	24	WORK WITH CAMERON TO INSTALL WELLHEAD AND PRESSURE TEST
600				WELL HEAD AS REQUIRED
600	615	0.25	7	RIG SERVICE AND CHECK CROWN SAVER OK
615	800	1.75	1	RIG OUT PREFABS AND MUD TANKS DRAIN NATIONAL 8P80 PUMPS
800				

NOTES: REVIEW J.S.A. ON TEARING OUT

BLOW BOILER DOWN 2 X = 80 LITERS (each boiler)

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			RIGGING OUT		

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
	BIT	O.D.
	D.P.	STANDS
	D.P.	SINGLES
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD

BIT NO.; SIZE; IADC CODE; MANUFACTURER; TYPE; SERIAL NO.; JETS; DEPTH OUT (m); DEPTH IN (m); TOTAL DRILLED (m); TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY; FLUID LOSS (cm3); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	12.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	215	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ ; @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1600	8.00	1	FLUSH PUMPS CLEAN MUD TANKS CHANGE HEADS AND LINERS FROM
1600				127 MM TO 152 MM AS REQUESTED FINISH RIG OUT FLOOR AND
				DRAWWORKS TO LOWER DERRICK AND LOWER SAME RIG OUT DERRICK
				AND DRAWWORKS TO MOVE DEICE MATTING
				NOTE VISUALLY INSPECTED DERRICK AND CHECK COTTER PINS IN
				BRAKE BAND PINS PRIOR TO LOWER DERRICK
				BOILER TWO SHUT OFF AT 1200 HRS FEB 28/2004

NOTES:

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
	BIT	O.D.
	D.P.	STANDS
	D.P.	SINGLES
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD

BIT NO.; SIZE; IADC CODE; MANUFACTURER; TYPE; SERIAL NO.; JETS; DEPTH OUT (m); DEPTH IN (m); TOTAL DRILLED (m); TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY; FLUID LOSS (cm3); pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	4.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	215	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ ; @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2400	8.00	1	BLOW AND DRAIN WATER AND STEAM LINES AND RIG OUT RIG OUT
2400				AIR LINES DRAIN MOISTURE OUT OF AIR TANKS DRAIN RIG AND
				BOILER WATER PUMPS DRAIN RIG AND BOILER WATER TANKS RIG
				OUT ELECTRICAL CORDS WORK WITH BED TRUCK TO TEAR SOME OF
				RIG COMPONENTS APART
				BOILER ONE SHUT OFF AT 2000 HRS FEB 28/2004
				RIG RELEASED FEB 28 23:59 2004

NOTES:

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH					

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN PREECE	ROLF REULE

DAILY CHECKS

	DP	R.M.
(1) Daily Walk Around Inspection	BP	RR
(2) Detailed Inspection - Weekly (Using Check List)	BP	RR
(3) H2S Signs Posted if Required	BP	RR
(4) Well Licence & Blink Diagram Posted	BP	RR
(5) Flare Lines Staked	BP	RR
(6) BOP Drills Performed	BP	RR
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	RR
(1) Rig Site Health & Safety Meeting (one/crew/month)		RR
(2) CACDC Rig Safet Inspection Checklist (one/rig/month)		RR
(3) Mast Inspection before Raising or Lowering		RR
(4) Crown Saver Checked		RR
(5) Motor Kills Checked		RR

YEAR 2004 | MONTH 2 | DAY 27

RIG NO. 37

FUEL @ 08:00 HRS

RIG 113 | BOILER

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

DC/DP	DC/DP SIZE	MASS	GRADE	MIN/MUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	121		DC	57	121	3.5 IF	12	8P80	NATIONAL	216
	89		HWDP		89	3.5 IF	30	8P80	NATIONAL	216
	89	23.07	E75+X95		90	3.5 IF	312			

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CACDC

PASON DATAHUB

TIME BREAKDOWN

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 WORK WITH TUBULARS/CASING	23	24	25	26
MORN							0.25					5.00											2.75			
DAY					2.25							4.00			0.25							1.50				
EVE	7.25														0.75											
TOTAL	7.25				2.25		0.25					9.00			1.00							1.50	2.75			

TOTALS	SHALE SHAKER(S)	RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. TYPE SWACO	LOADER	14050	14068	14092
8.00	SCREENS CHANGED [ ] NEW USED [ ]		14116	14140	14164
8.00	TOP 175	TOP 175	14188	14564	14588
8.00	MIDDLE	MIDDLE	14610	14635	14658
24.00	BOTTOM 110	BOTTOM 110	14682		

MORNING TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH
BIT	O.D.	
D.P.	STANDS	
D.P.	SINGLES	
KELLY DOWN		
TOTAL		
WT. OF D.C.		
WT. OF STRING		

BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: TI | TO | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

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

MUD RECORD

MUD TYPE | WATER BASED [X] | OIL BASED [ ]

TIME | DENSITY (kg/m3) | FUNNEL VISCOSITY | FLUID LOSS (cm3) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	220	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	127.0		0.0	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE(function annular , upper+lower pipe-rams)
15	300	2.75	23	WAIT ON POWER TONGS
300	800	5.00	12	RUN TUBING
800				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE

REVIEW J.S.A.' S ON RUN CASING

BLOW BOILER DOWN 2 X = 80 LITERS (each boiler)

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
		RUNNING CASING	25	

DAY TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH
BIT	O.D.	
D.P.	STANDS	
D.P.	SINGLES	
KELLY DOWN		
TOTAL		
WT. OF D.C.		
WT. OF STRING		

BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: TI | TO | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY | FLUID LOSS (cm3) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	190	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	127.0		0.0	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1200	4.00	12	RUN TUBING LATCH ONTO PACKER
1200	1215	0.25	15	TEST ANNULAS AGAIST ON OFF SUB 10000 KPA OK
1215	1430	2.25	5	UNLATCH DISPLACE HOLE TO INHIBITED WATER
1430	1600	1.50	22	SPACE OUT INSTALL G PACK OFF 2 X SINGLES DOWN IN PUP JT
				LAND TUB HANGER SCREW IN TIE DOWN BOLTS

NOTES: CHECK CROWN SAVER, SWACO CHOKE

REVIEW JSAs

BLEW BOILER 80 LITERS EACH

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
				19146

EVENING TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH
BIT	O.D.	
D.P.	STANDS	
D.P.	SINGLES	
KELLY DOWN		
TOTAL		
WT. OF D.C.		
WT. OF STRING		

BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: TI | TO | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY | FLUID LOSS (cm3) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	215	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1645	0.75	15	TEST ANULUS & HANGER TO 10000Kpa, 15 MIN, L/D SINGLE
	1645			INSTALL BPV
1645	1945	3.00	1	L/D KELLY, T/O BOPs REMOVE FLOW NIPPLE AND FLOW LINE
1945	2400	4.25	1	SPLIT B.O.P.REMOVE HYDRIL AND DOUBLE GATE RAMS IN ONE PIECE
				AND LAY DOWN WITH THE HELP OF CHERRY PICKER FINISH RIG OUT
				BOPS REMOVE KILL LINE VALVES AND TURN BLOCKS

NOTES: REVIEW J.S.A. ON L/D/ B.O.P. / RIGGING OUT/CONFINED SPACE ENTRY

BLOW BOILERS DOWN 2 X = 80 LITERS (each boiler)

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
		rig out		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP [ ] YES [ ] NO | RIG SAFETY DAYS

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN PREECE	ROLF REULE

DAILY CHECKS

	OPR	R.M.
(1) Daily Walk Around Inspection	BP	RR
(2) Detailed Inspection - Weekly (Using Check List)	BP	RR
(3) H2S Signs Posted if Required	BP	RR
(4) Well Licence & Stick Diagram Posted	BP	RR
(5) Flare Lines Staked	BP	RR
(6) BOP Drills Performed	BP	RR
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	RR
(1) Rig Site Health & Safety Meeting (one/crew/month)		RR
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		RR
(3) Mast Inspection before Raising or Lowering		RR
(4) Crown Saver Checked		RR
(5) Motor Kills Checked		RR

YEAR 2004 | MONTH 2 | DAY 26

RIG NO. 37

FUEL @ 08:00 HRS | RIG | BOILER

WEATHER | TEMPERATURE | CURRENT CONDITIONS | WIND DIRECTION | ROAD CONDITION | DC/DP

	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
LAST CASING	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
TUBING OR LINER	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T..NT. O.D.	TYPE THREAD	NO. of JOINTS
121		DC	57	121	3.5 IF	12
89		HWDP		89	3.5 IF	30
89	23.07	E75+X95		90	3.5 IF	312

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216
8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

TIME / HRS

CODE NO: 1 RIGUP & TEARDOWN | 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 WIRELINE LOGS | 12 RUN CSG & CEMENT | 13 WAIT ON CEMENT | 14 NIPPLE UP B.O.P. | 15 TEST B.O.P. | 16 DRILLSTEM TEST | 17 PLUG BACK | 18 SQUEEZE CEMENT | 19 FISHING | 20 DIR. WORK | 21 SAFETY MEETING | 22 BREAK DOWN | 23 WAKE DOWN | 24 REMOVE WEAR BUSHING | 25 | 26

MORN					6.50																1.50					
DAY					1.00	0.25				6.25										0.25			0.25			
EVE						0.25					3.75			0.25						0.50		3.25				
TOTAL					7.50	0.50				6.25	3.75			0.25						0.75	1.50	3.25	0.25			

TOTALS	SHALE SHAKER(S)	RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. / TYPE SWACO / TYPE	LOADER	14050	14068	14092
8.00	SCREENS CHANGED / NEW/ USED		14116	14140	14164
8.00	TOP 175 / TOP 175		14188	14564	14588
24.00	MIDDLE / MIDDLE		14610	14635	14658
	BOTTOM 110 / BOTTOM 110		14682		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP YES NO | RIG SAFETY DAYS

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
	SCRAPER		0.82
	BIT SUB		0.77
	D.C.		55.06
	JAR		3.89
	D.C.		55.07
	H.W.D.P.		92.33

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	ROLF REULE

DAILY CHECKS

	OPER	RIG
(1) Daily Walk Around Inspection	BP	RR
(2) Detailed Inspection - Weekly (Using Check List)	BP	RR
(3) H2S Signs Posted if Required	BP	RR
(4) Well Licence & Blow Diagram Posted	BP	RR
(5) Flare Lines Staked	BP	RR
(6) BOP Drills Performed	BP	RR
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	RR
(1) Rig Site Health & Safety Meeting (one/crew/month)		RR
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		RR
(3) Mast Inspection before Raising or Lowering		RR
(4) Crown Saver Checked		RR
(5) Motor Kills Checked		RR

YEAR 2004 MONTH 2 DAY 25

RIG NO. 37

FUEL @ 08:00 HRS

RIG 169 BOILER

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T..INT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	121		DC	57	121	3.5 IF	12	8P80	NATIONAL	216
	89		HWDP		89	3.5 IF	30	8P80	NATIONAL	216
	89	23.07	E75+X95		90	3.5 IF	312			

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OF FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

TIME BREAKDOWN

CODE NO:	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26
MORN							0.25				7.75															
DAY						5.25	0.25		1.00		1.50															
EVE					2.50	5.00	0.25														0.25					
TOTAL					2.50	10.25	0.75		1.00		9.25										0.25					

TOTALS	NO.	SHALE SHAKER(S) TYPE	RENTALS / SERVICES TYPE	MORN	DAY	EVE
8.00	SWACO		LOADER	14050	14068	14092
8.00	SCREENS CHANGED	NEW/ USED		14116	14140	14164
8.00	TOP 175	TOP 175		14188	14564	14588
8.00	MIDDLE	MIDDLE		14610	14635	14658
24.00	BOTTOM 110	BOTTOM 110		14682		

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME			
RIG MANAGER		RIG NO.		
PROVINCE	CAMP YES NO	RIG SAFETY DAYS		

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.14
1	MOTOR	117	5.52
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
134	D.P. STANDS		2560.77
	D.P. SINGLES		
KELLY DOWN			5.37
TOTAL			2812.00
WT. OF D.C.	10		
WT. OF STRING	65		

BIT RECORD

BIT NO.	5							
SIZE	156.0							
IADC CODE								
MANUFACTURER	UNITED							
TYPE	UD513							
SERIAL NO.	2070							
JETS	5	X						
	12.7							
DEPTH OUT (m)								
DEPTH IN (m)	2730.00							
TOTAL DRILLED (m)	61.00							
TOTAL HRS RUN	10.25							

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE		WATER BASED	X	OIL BASED	
TIME					
DENSITY (kg/m3)					
FUNNEL VISCOSITY					
FLUID LOSS (cm3)					
pH					

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	220	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@		@	

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

CURTIS VICKERS

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	345	3.75	11	LOGGING / 2 nd RUN /LOGS HMI , SGR , HBC , CAL
345	400	0.25	7	RIG SERVICE FUNCTION BLIND RAMS OK
400	800	4.00	11	WIRE LINE LOGS/MONITOR WELL FOR GAINS / LOSSES
800				

NOTES : REVIEW J.S.A.`S ON LOGGING

BLOW BOILER DOWN 2 X = 80 LITERS(each boiler)

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		LOGGING		19026

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	NO

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.19
	SCRAPER		0.82
	BIT SUB		0.77
	D.C.		55.06
	JAR		3.89
	D.C.		55.07
	H.W.D.P.		92.33
	D.P. STANDS		
	D.P. SINGLES		
KELLY DOWN			
TOTAL			208.13
WT. OF D.C.			
WT. OF STRING			

BIT RECORD

BIT NO.	5		6RR	
SIZE	156.0		156.0	
IADC CODE				
MANUFACTURER	UNITED			
TYPE	UD513		THT09XP	
SERIAL NO.	2070		MO3495	
JETS	5	X	OPEN	OPEN
	12.7		OPEN	
DEPTH OUT (m)				
DEPTH IN (m)	2730.00			
TOTAL DRILLED (m)	61.00			
TOTAL HRS RUN	10.25			

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	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 VISCOSITY					
FLUID LOSS (cm3)					
pH					

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	200	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2812.00				

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
		0.0	

REDUCED PUMP SPEED

@	0	@	

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

GARY JESSOP

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	930	1.50	11	FINISH LOGGING
930	945	0.25	7	RIG SERVICE, FUNCTION BLIND RAMS
945	1030	0.75	6	RUN IN B.H.A, 1 STD D.P., F.C. @ 208m
1030	1130	1.00	9	SLIP & CUT 25m DRILL LINE
1130	1600	4.50	6	FINISH RUNNING IN, FILL EVERY 500m, F.C. @ 1000,1514m
1600				

NOTES : CHECK CROWN SAVER, SWACO CHOKE

REVIEW JSAs TRIPPING IN, DOG COLLAR USE

BLEW BOILERS 80 LITERS EACH

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		TRIPS	40	19146

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	NO

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.19
	SCRAPER		0.82
	BIT SUB		0.77
	D.C.		55.06
	JAR		3.89
	D.C.		55.07
	H.W.D.P.		92.33
	D.P. STANDS		
	D.P. SINGLES		
KELLY DOWN			
TOTAL			208.13
WT. OF D.C.			
WT. OF STRING			

BIT RECORD

BIT NO.	5		
SIZE	156.0		
IADC CODE			
MANUFACTURER	UNITED		
TYPE	UD513		
SERIAL NO.	2070		
JETS	5	X	
	12.7		
DEPTH OUT (m)			
DEPTH IN (m)	2730.00		
TOTAL DRILLED (m)	61.00		
TOTAL HRS RUN	10.25		

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	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 VISCOSITY					
FLUID LOSS (cm3)					
pH					

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	210	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2812.00				

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9100	127.0	100	

REDUCED PUMP SPEED

@	0	@	

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

CURTIS VICKERS

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1745	1.75	6	FINISH RUNNIN IN FILL PIPE & F.C. @ 2021,2420m
1745	1800	0.25	7	RIG SERVICE, FUNCTION ANNULAR, BOTH PIPERAMS
1800	2030	2.50	5	COND MUD & CIRC
2030	2045	0.25	21	SAFETY MTG. FLOW CHECK @ 2421m
2045	2215	1.50	6	TRIPS/LAY DOWN DRILL PIPE/FLOWCHECK@ 2326m1993m
2215	2300	0.75	6	TRIPSRUN 17 STANDS IN HOLE TO LAY OUT
2300	2400	1.00	6	TRIPS/LAY DOWN DRILL STRING/FLOW CHECK @2288m
2400				

NOTES : FUNCTION CROWN SAVER / SWACO CHOKE

REVIEW J.S.A.`S ON LAYDOWN PIPE WITH LAYDOWN TRUCK

BLOW BOILER DOWN 2 X = 80 LITERS

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		LAY OUT DRILL STRING	65	19026

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	NO

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	ROLF REULE

DAILY CHECKS

	OP	R.M.
(1) Daily Walk Around Inspection	BP	RR
(2) Detailed Inspection - Weekly (Using Check List)	BP	RR
(3) H2S Signs Posted if Required	BP	RR
(4) Well Licence & Stick Diagram Posted	BP	RR
(5) Flare Lines Staked	BP	RR
(6) BOP Drills Performed	BP	RR
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	RR
(1) Rig Site Health & Safety Meeting (one/crew/month)		RR
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		RR
(3) Mast Inspection before Raising or Lowering.		RR
(4) Crown Saver Checked		RR
(5) Motor Kills Checked		RR

YEAR 2004 MONTH 2 DAY 24

RIG NO. 37

FUEL @ 08:00 HRS

RIG 24899 BOILER 200

WEATHER: TEMPERATURE; CURRENT CONDITIONS; WIND DIRECTION; ROAD CONDITION

	DC/DP	SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
		121		DC	57	121	3.5 IF	12
		89		HWDP		89	3.5 IF	30
		89	23.07	E75+X95		90	3.5 IF	312

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	8P80	NATIONAL	216
	8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

TIME BREAKDOWN

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 BOP DRILL	23	24	25	26
MORN		7.50			0.25		0.25																			
DAY					1.25	6.75																				
EVE						2.25	0.25				5.00										0.25	0.25				
TOTAL		7.50			1.50	9.00	0.50				5.00										0.25	0.25				

TOTALS	SHALE SHAKER(S): NO.	TYPE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
8.00	SCREENS CHANGED		NEW? USED	LOADER	14050	14068	14092
8.00	TOP 175	MIDDLE	TOP 175 MIDDLE		14116	14140	14164
8.00					14188	14564	14588
24.00	BOTTOM 110		BOTTOM 110		14610	14635	14658
					14682		

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	5.52
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
133	D.P. STANDS		2561.28
	D.P. SINGLES		
	KELLY DOWN		4.86
	TOTAL		2812.00
	WT. OF D.C.	10	
	WT. OF STRING	65	

BIT RECORD

BIT NO.	5
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	2730.00
TOTAL DRILLED (m)	82.00
TOTAL HRS RUN	18.00

CUTTING STRUCTURE

Ti	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	1000 UP 2000 DOWN
TORQUE AT BOTTOM	400
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED
TIME	200	400	
DENSITY (kg/m3)	1035	1040	
FUNNEL VISCOSITY	47	46	
FLUID LOSS (cm3)			
pH	10.5	10.5	
PVTM3	65.60	65.40	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
0.00			

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2791.00	2812.00	D	45	7

CIRCULATION PRESSURE kPa: 15000

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0	105	127.0	

REDUCED PUMP SPEED: 4950 @ 60 @ 2800

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2776.48	10.50	335.5

DRILLER SIGNATURE: DAN PERRY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	230	2.50	2	DRILL FR. 2791-2800
230	245	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS ,ANN.
245	745	5.00	2	DRILL FR.2800-2812 (T.D.)
745	800	0.25	5	COND MUD & CIRC BTTMS UP

NOTES: FUNCTION CROWN SAVER/SWACO CHOKE

REVIEW J.S.A. ON RIG SERVICE

BLOW DOWN BOILER 2X EACH BOILER 160 LITRES

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				RIG SERVICE	65	19146

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	5.52
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
133	D.P. STANDS		2561.28
	D.P. SINGLES		
	KELLY DOWN		4.86
	TOTAL		2812.00
	WT. OF D.C.	10	
	WT. OF STRING	65	

BIT RECORD

BIT NO.	5
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	2730.00
TOTAL DRILLED (m)	61.00
TOTAL HRS RUN	10.25

CUTTING STRUCTURE

Ti	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED
TIME	800	1000	
DENSITY (kg/m3)	1040	1045	
FUNNEL VISCOSITY	46	47	
FLUID LOSS (cm3)			
pH	11.0	11.0	
PVT.	62.60	62.40	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAL CARB 325	67	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	220	STACK TEMP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa:

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0		127.0	

REDUCED PUMP SPEED: @ 0 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	830	0.50	5	COND MUD & CIRC BTTMS UP
830	915	0.75	6	FLOW CHECK @ 2806m , 2711m5STD WIPER TRIP
915	1000	0.75	5	CIR HOLE CLEAN / FLO W-CHECK @2806m
1000	1600	6.00	6	TRIP/ P.O.O.H. TO LOG FLOWCHECK@ 2806m,2711m,1761m
				TRIP MUD
				MEASURED- 9.29 CALC 8.99
				DIFFERENCE- .30m3

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE

REVIEW J.S.A. ON TRIPPING / RACKING BACK PIPE

BLOW BOILER DOWN 2 X = 80 LITERs (each boiler)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				RACKING PIPE	67	19146

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	5.52
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
134	D.P. STANDS		2560.77
	D.P. SINGLES		
	KELLY DOWN		5.37
	TOTAL		2812.00
	WT. OF D.C.	10	
	WT. OF STRING	65	

BIT RECORD

BIT NO.	5
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	2730.00
TOTAL DRILLED (m)	61.00
TOTAL HRS RUN	10.25

CUTTING STRUCTURE

Ti	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED
TIME			
DENSITY (kg/m3)			
FUNNEL VISCOSITY			
FLUID LOSS (cm3)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	230	STACK TEMP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2812.00				

CIRCULATION PRESSURE kPa:

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0		127.0	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: GARY JESSOP

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	22	HELD BOP DRILL WITH CREW, WELL SECURE 90 SEC
1615	1830	2.25	6	FINISH HOIST TO LOG F.C. @294, 0m
1830	1845	0.25	7	RIG SERVICE , FUNCTION BLIND RAMS
1845	1900	0.25	21	SAFETY MTG. WITH LOGGERS
1900	2400	5.00	11	RIG TO & RUN WIRELINE LOGS
2400				
				LOG#(1). SPD2,DLL,SPD,CNT,UGR,CAL

NOTES: FUNCTION CROWN SAVER, SWACO CHOKE

REVIEW JSAs, TRIPPING OUT, LOGGING

BLEW BOILERS. 80 LITERS EACH

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				TRIPS	20	19146

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME			
RIG MANAGER		RIG NO.		
PROVINCE	CAMP YES NO	RIG SAFETY DAYS		

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	GARY FORTH

DAILY CHECKS (OPR / R.M.)

(1.) Daily Walk Around Inspection — BP / GF
(2.) Detailed Inspection - Weekly (Using Check List) — BP / GF
(3.) H2S Signs Posted if Required — BP / GF
(4.) Well Licence & Stick Diagram Posted — BP / GF
(5.) Flare Lines Staked — BP / GF
(6.) BOP Drills Performed — BP / GF
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines — BP / GF

(1.) Rig Site Health & Safety Meeting (one/crew/month) — GF
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month) — GF
(3.) Mast Inspection before Raising or Lowering — GF
(4.) Crown Saver Checked — GF
(5.) Motor Kills Checked — GF

YEAR 2004 MONTH 2 DAY 23
RIG NO. 37
FUEL @ 08:00 HRS — RIG 19667 — BOILER 160
TEMPERATURE -15
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION
SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T.JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	121	58.60	DC	57	121	3.5 IF	12	8P80	NATIONAL	216
	89	35.35	HWDP	70	89	3.5 IF	30	8P80	NATIONAL	216
	89	23.07	E75+X95	82	90	3.5 IF	312			

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

CODE NO. 1 RIGUP & TEARDOWN | 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 WIRELINE LOGS | 12 RUN CSG & CEMENT | 13 WAIT ON CEMENT | 14 NIPPLE UP B.O.P. | 15 TEST B.O.P. | 16 DRILLSTEM TEST | 17 PLUG BACK | 18 SQUEEZE CEMENT | 19 FISHING | 20 DIR. WORK | 21 SAFETY MEETING | 22 HANDLE TOOLS | 23 | 24 | 25 | 26

TIME BREAKDOWN	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING	HANDLE TOOLS
MORN						5.50	0.25															2.25
DAY		2.50	0.25			5.00	0.25															
EVE		7.75					0.25															
TOTAL		10.25	0.25			10.50	0.75															2.25

TOTALS	SHALE SHAKER(S)	RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. 2 TYPE SWACO	LOADER	14050	14068	14092
8.00	SCREENS CHANGED	NEW/USED	14116	14140	14164
8.00	TOP 175	TOP 175	14188	14564	14588
8.00	MIDDLE	MIDDLE	14610	14635	14658
24.00	BOTTOM 110	BOTTOM 110			

DRILLING CREW PAYROLL DATA

WELL NAME & NO | YEAR | MONTH | DAY
OPERATOR | CONTRACTOR NAME
RIG MANAGER | RIG NO.
PROVINCE | CAMP YES NO | RIG SAFETY DAYS

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	5.52
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
129	D.P. STANDS		2465.75
1	D.P. SINGLES		9.47
KELLY DOWN			7.04
TOTAL			2728.12
WT. OF D.C.	10		
WT. OF STRING	65		

BIT RECORD

BIT NO.	4		5RR
SIZE	156.0		156.0
IADC CODE			
MANUFACTURER	UNITED		UNITED
TYPE	UD513		UD513
SERIAL NO.	2070		2070
JETS	5	X 5	X
	12.7		12.7
DEPTH OUT (m)	2730.00		
DEPTH IN (m)	2442.00		2730.00
TOTAL DRILLED (m)	288.00		
TOTAL HRS RUN	30.00		

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0		127.0	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	330	3.50	6	FINISH HOIST TO CHANGE MOTOR FLOW CHECK @1343.267
330	500	1.50	6	HOIST B.H.A. FLOW CHECK BANK
500	515	0.25	7	RIG SERVICE FUNCTION BLIND RAMS
515	545	0.50	22	CHANGE MUD MOTOR & PULSE TEST M.W.D.
545	730	1.75	22	MAKE UP BIT & BH.A& RUN IN HOLE
730	800	0.50	6	RUN IN HOLE
800				

NOTES: FUNCTION CROWN SAVER/SWACO CHOKE
REVIEW J.S.A. O0N MAKE UP B.H.A
BLOW DOWN EACH BOILER 2X 160 LITRES

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		MAKE UP B.H.A		19505

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	5.52
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
130	D.P. STANDS		2484.39
1	D.P. SINGLES		9.54
KELLY DOWN			5.21
TOTAL			2745.00
WT. OF D.C.	10		
WT. OF STRING	65		

BIT RECORD

BIT NO.	5		
SIZE	156.0		
IADC CODE			
MANUFACTURER	UNITED		
TYPE	UD513		
SERIAL NO.	2070		
JETS	5	X	
	12.7		
DEPTH OUT (m)	2745.00		
DEPTH IN (m)	2730.00		
TOTAL DRILLED (m)	15.00		
TOTAL HRS RUN	2.50		

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG: 1000UP / 2000DOWN
TORQUE AT BOTTOM: 400
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED ☐

TIME	1500
DENSITY (kg/m3)	1030
FUNNEL VISCOSITY	45
FLUID LOSS (cm3)	
pH	11.0
PVT.	63.00

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12100	127.0	106	127.0

REDUCED PUMP SPEED: 4780 @ 60 @ 2741

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2730.00	2745.00	D	30	7

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1300	5.00	6	TRIPS/ R.I.H. FILL PIPE EVERY 500 M AND FLOW CHECKS
1300	1315	0.25	3	WASH 2 SINGLES TO BOTTOM
1315	1515	2.00	2	DRILL FR./ 2730m-2742m
1515	1530	0.25	7	RIG SERVICE}FUNCTION UPPER+LOWER PIPE-RAMS,ANNULAR}
1530	1600	0.50	2	DRILL FR./ 2742m-2745m
1600				

NOTES: FUNCTION. CROWN SAVER / SWACO CHOKE/ STABBING VALVE
REVIEW J.S.A. ON TRIPPING / PIPE SPINNER OPERATION
BLOW BOILER DOWN 2 X EACH BOILER

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		TRIPPING IN HOLE	65	19265

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	5.52
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
132	D.P. STANDS		2522.69
1	D.P. SINGLES		9.65
KELLY DOWN			12.92
TOTAL			2791.12
WT. OF D.C.	10		
WT. OF STRING	65		

BIT RECORD

BIT NO.	5		
SIZE	156.0		
IADC CODE			
MANUFACTURER	UNITED		
TYPE	UD513		
SERIAL NO.	2070		
JETS	5	X	
	12.7		
DEPTH OUT (m)			
DEPTH IN (m)	2730.00		
TOTAL DRILLED (m)	61.00		
TOTAL HRS RUN	10.25		

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG: 1000 UP/2000 DOWN
TORQUE AT BOTTOM: 300
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED ☐

TIME	1800	2200	2300
DENSITY (kg/m3)	1030	1035	1035
FUNNEL VISCOSITY	45	48	47
FLUID LOSS (cm3)			
pH	11.0	11.0	10.5
PVT.	64.80	64.60	64.50

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
FILTER CHECK	15	SX
BARABUF	2	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
0.00			

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
15000	127.0	106	127.0

REDUCED PUMP SPEED: 4800 @ 60 @ 2771

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2745.66	10.10	338.6

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2745.00	2791.00	D	50	6

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1945	3.75	2	DRILL FR./ 2745m -2771
1945	2000	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS,ANN.
2000	2400	4.00	2	DRILL FR. 2771- 2791
2400				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. ON TONG PROCEDURES
BLOW BOILER DOWN 2 X= 80 LITERS(EACH BOILER)

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		TONG PROCEDURES	65	19146

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN PREECE	GARY FORTH

DAILY CHECKS

	DFR	E.M
(1.) Daily Walk Around Inspection	BP	GF
(2.) Detailed Inspection - Weekly (Using Check List)	BP	GF
(3.) H2S Signs Posted if Required	BP	GF
(4.) Well Licence & Stick Diagram Posted	BP	GF
(5.) Flare Linak Staked	BP	GF
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	GF
(1.) Rig Site Health & Safety Meeting (one/crew/month)		GF
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		GF
(5.) Motor Kills Checked		

YEAR 2004 MONTH 2 DAY 22

RIG NO: 37

FUEL @ 08:00 HRS

RIG	BOILER
24311	195

TEMPERATURE -5

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

DC/DP I.D.	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T.JNT. O.D.	TYPE THREAD	NO. of JOINTS
	121	58.60	SPIRAL	57	121	3.5 IF	12
	89	35.35	HWDP	70	89	3.5 IF	30
	89	23.07	E75+X95	82	89	3.5 IF	312

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216
8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

CODE NO.

TOUR	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26
MORN		7.75					0.25																			
DAY		7.50					0.25			0.25																
EVE		4.00			1.75	2.00	0.25																			
TOTAL		19.25			1.75	2.00	0.75			0.25																

TOTALS	SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO.	TYPE SWACO	TYPE	LOADER	14050	14068	14092
8.00	SCREENS CHANGED	NEW/ USED			14116	14140	14164
8.00	175 TOP MIDDLE	175 TOP MIDDLE			14188	14564	14588
24.00	110 BOTTOM	110 BOTTOM			14610	14635	

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME			
RIG MANAGER		RIG NO:		
PROVINCE	CAMP YES NO	RIG SAFETY DAYS		

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	7.40
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
123	D.P. STANDS		2349.98
1	D.P. SINGLES		9.71
KELLY DOWN			9.57
TOTAL			2617.00
WT. OF D.C.	10		
WT. OF STRING	62		

BIT RECORD

BIT NO.	4
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	2442.00
TOTAL DRILLED (m)	175.00
TOTAL HRS RUN	18.50

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	1000 UP& DOWN
TORQUE AT BOTTOM	350
FILL ON BOTTOM (m)	

MORNING TOUR

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED	
TIME		200	400	600
DENSITY (kg/m3)		1020	1020	1020
FUNNEL VISCOSITY		41	43	46
FLUID LOSS (cm3)				
pH		10.0	10.0	10.0
PVTM3		67.80	68.30	68.00

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARABUF	1	SX
FILTER CHECK	15	SX
N-VIS-P-PLUS	5	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
0.00			

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE

kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
13600	127.0	105	127.0	

REDUCED PUMP SPEED: 4200 @ 61 @ 2591

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2547.20	3.80	300.3
2604.35	4.70	307.6

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2543.00	2617.00	D	35	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	500	5.00	2	DRILL FR. 2543-2591
500	515	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS ,ANN.
515	800	2.75	2	DRILL FR. 2591-2617m
800				

NOTES: CHECK CROWN SAVER/SWACO CHOKE

REVIEW J.S.A. ON MIXING

BLOW DOWN BOILER 2X EACH BOILER 80 LITRES EACH

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		MIXING	64	19505

MORNING TOUR	FROM 0	TO 800	INJURIES
CREW	SOC INS. NO.	NAME	HRS YES NO

RATE SCHEDULE	REGULAR	REPAIR	INVERT
CREW SAFETY DAYS		DRIVERS	

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	7.40
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
127	D.P. STANDS		2427.34
1	D.P. SINGLES		9.56
KELLY DOWN			5.36
TOTAL			2690.00
WT. OF D.C.	10		
WT. OF STRING	65		

BIT RECORD

BIT NO.	4
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	2442.00
TOTAL DRILLED (m)	248.00
TOTAL HRS RUN	26.00

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	1000UP -3000DOWN
TORQUE AT BOTTOM	350
FILL ON BOTTOM (m)	

DAY TOUR

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED	
TIME		900	1200	1600
DENSITY (kg/m3)		1030	1035	1035
FUNNEL VISCOSITY		45	44	44
FLUID LOSS (cm3)				
pH		11.0	11.0	11.0
P.V.T.M		67.60	66.20	64.80

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	205	STACK TEMP

CIRCULATION PRESSURE

kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
11400	127.0	106	127.0	

REDUCED PUMP SPEED: 4460 @ 59 @ 2648

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2604.35	6.20	313.0
2633.42	7.40	313.2
2662.38	7.90	313.0

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2617.00	2690.00	D	30	7

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1130	3.50	2	DRILLFR./2617m-2649m
1130	1145	0.25	7	RIG SERVICE(function annular , upper + lower pipe-rams)
1145	1545	4.00	2	DRILL FR./ 2649m- 2690m
1545	1600	0.25	10	ACCUMULATED SURVEYS/ CONNECTIONS
1600				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE/ STABBING VALVE

REVIEW J.S.A.'S ONLOADER OPERATION

TARGET ZERO SAFETY MEETING ON " SLIPS AND TRIPS"

BLOW BOTH BOILERS DOWN 2 X = 80 LITERS

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		LOADER OPERATION	65	19265

DAY TOUR	FROM 800	TO 1600	INJURIES
CREW	SOC INS. NO.	NAME	HRS YES NO

RATE SCHEDULE	REGULAR	REPAIR	INVERT
CREW SAFETY DAYS		DRIVERS	

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	7.40
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
129	D.P. STANDS		2465.75
1	D.P. SINGLES		9.47
KELLY DOWN			7.04
TOTAL			2730.00
WT. OF D.C.	10		
WT. OF STRING	65		

BIT RECORD

BIT NO.	4
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	2730.00
DEPTH IN (m)	2442.00
TOTAL DRILLED (m)	288.00
TOTAL HRS RUN	30.00

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

EVENING TOUR

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED	
TIME		1900		
DENSITY (kg/m3)		1035		
FUNNEL VISCOSITY		44		
FLUID LOSS (cm3)				
pH		11.0		
PVT.		64.60		

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAL CARB 325	56	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
0.00			

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE

kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
14000	127.0	106	127.0	

REDUCED PUMP SPEED: 4480 @ 60 @ 2730

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2691.22	311.30	8.8
2714.00	313.30	8.6

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2690.00	2730.00	D	50	7

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2000	4.00	2	DRILL FR./ 2690m-2730
2000	2015	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS ,ANN
2015	2115	1.00	5	CIRC. UP SAMPLE
2115	2145	0.50	6	HOIST 5 STDS FLOW CHECK @2724
2145	2230	0.75	5	PICK UP KELLY PUMP PILL
2230	2400	1.50	6	TRIPS - HOIST TO CHANGE MUD MOTOR FLOW CHECK@2627,2427
2400				

NOTES: FUNCTION CROWN SAVER/SWACO CHOKE

REVIEW J.S.A. ON TRIPPING OUT ,

BLOW DOWN BOILER 2X EACH BOILER 160 LITRES

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		TRIPPING		19505

EVENING TOUR	FROM 1600	TO 2400	INJURIES
CREW	SOC INS. NO.	NAME	HRS YES NO

RATE SCHEDULE	REGULAR	REPAIR	INVERT
CREW SAFETY DAYS		DRIVERS	

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	GARY FORTH

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	BP	GF
(2.) Detailed Inspection - Weekly (Using Check List)	BP	GF
(3.) H2S Signs Posted if Required	BP	GF
(4.) Well Licence & Stick Diagram Posted	BP	GF
(5.) Flare Lines Staked	BP	GF
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Dogasser Lines	BP	GF

RIG INSPECTIONS	
(1.) Rig Site Health & Safety Meeting (one/crew/month)	GF
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)	
(3.) Mast Inspection before Raising or Lowering	
(4.) Crown Saver Checked	GF
(5.) Motor Kills Checked	GF

YEAR 2004 MONTH 2 DAY 21
RIG NO. 37
FUEL @ 08:00 HRS.
RIG 21069 BOILER 170
TEMPERATURE -5
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION SLIPPERY

LAST CASING TUBING OR LINER	O.D. (mm)	MIN ID (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
	165	142.90	DC	65	165	4.5 XH	18
	114	52.50	HWDP	70	159	4.5 XH	9
	114	29.75	E3X3	92	159	4.5 XH	348

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216
8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

TIME BREAKDOWN

CODE NO:	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 RIG OUT/UP	23 CHANGE KELLY	24 CHANGE TO C SAVER DRILL	25 DRILL OUT	26 TOTALS
MORN						2.75	0.25			0.25												1.00	1.75	0.75	0.25	1.00	8.00
DAY		4.75			0.75		0.50								2.00											8.00
EVE		7.75					0.25																			8.00
TOTAL		12.50			0.75	2.75	1.00			0.25					2.00							1.00	1.75	0.75	0.25	1.00	24.00

SHALE SHAKER(S)

NO.	TYPE SWACO	TYPE	
	SCREENS CHANGED	NEW/ USED	
	TOP 175	TOP 175	
	MIDDLE	MIDDLE	
	BOTTOM 110	BOTTOM 110	

RENTALS / SERVICES

	MORN	DAY	EVE
LOADER	14050	14068	14092
	14116	14140	14164
	14188	14564	14588
	14610		

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME		
RIG MANAGER	RIG NO.		
PROVINCE	CAMP ☐ YES ☐ NO	RIG SAFETY DAYS	

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	7.40
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
113	D.P. STANDS		2156.62
1	D.P. SINGLES		9.55
KELLY DOWN			12.92
TOTAL			2428.83
WT. OF D.C.			
WT. OF STRING			

BIT RECORD

BIT NO.	4
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	2442.00
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED ☐	OIL BASED ☐
TIME	600		
DENSITY (kg/m3)	1025		
FUNNEL VISCOSITY	55		
FLUID LOSS (cm3)			
pH	9.0		
PVTM3	41.70		

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
SODIUM BICARBONATE	3	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	230	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
10800	127.0	105	127.0	105

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS, ANN
15	300	2.75	6	PICK UP 31/2 DRILLPIPE FILL PIPE @ 2000m, RUN IN TO 2381
300	400	1.00	22	RIG OUT L/D TRUCK
400	545	1.75	23	CHANGE OUT KELLY BAR& BUSHINGS
545	600	0.25	25	BOP DRILL WELL SHUT IN IN 85 SEC.
600	615	0.25	10	TEST MWD
615	700	0.75	24	WASH DOWN TO P OF CEMENT @ 2424m
700	800	1.00	26	DRILL OUT FLOAT & CEMENT & SHOE
800				

NOTES: FUNCTION CROWN SAVER/ SWACO CHOKE
REVIEW J.S.A. ON MAKE UP KELLY.
BLOW DOWN BOILER 2X EACH BOILER

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		MAKE UP KELLY		

MORNING TOUR FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	7.40
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
116	D.P. STANDS		2216.16
1	D.P. SINGLES		9.61
KELLY DOWN			11.49
TOTAL			2485.00
WT. OF D.C.	10		
WT. OF STRING	62		

BIT RECORD

BIT NO.	4
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	2442.00
TOTAL DRILLED (m)	43.00
TOTAL HRS RUN	4.00

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	1000dAN UP / DOWN
TORQUE AT BOTTOM	350
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED ☐	
TIME	1000	1200	1500	
DENSITY (kg/m3)	1020	1020	1020	
FUNNEL VISCOSITY	42	44	43	
FLUID LOSS (cm3)				
pH	11.0	11.0	11.0	
pvt.	61.70	71.30	72.20	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
0.00			

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	11.0	BOILER pH	
STACK TEMP	210	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
10410	127.0		127.0	105

REDUCED PUMP SPEED: 4210 @ 60 @ 2475

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2476.85	2.00	325.2

DRILLER SIGNATURE

CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2442.00	2485.00	D	20	5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	845	0.75	2	DRILL 2442m-2447m
845	930	0.75	5	CIRCULATE BOTTOM HOLE SAMPLE
930	1130	2.00	15	F.I.T. TEST/ PRESSURE TESTUPPER + LOWER KELLY VALVE--
				1500KPA LOW-21000KPA HIGH(15 MINS.EACH)O.K.
				STAND PIPE1500KPALOW-14000 KPA HIGH(15MINS.) O.K.
1130	1445	3.25	2	DRILL / FR- 2447m- 2476m
1445	1515	0.50	7	RIG SERVICE(FUNCTION BOTH PIPE-RAMS,ANNULAR)
1515	1600	0.75	2	DRILL FR./2476m- 2485m
1600				
				CREW SAFETY MEETING ON "TARGET ZERO" OFFROAD DRIVING

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. S ON CONNECTIONS/ HOUSEKEEPING
FUNCTION MOTOR KILLS (ENGINES STOPPED IN 3 SECONDS)
BLOW BOILER DOWN 2 X = 80 LITERS (each boiler)

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		connections	65	19505

DAY TOUR FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	7.40
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33
119	D.P. STANDS		2273.82
1	D.P. SINGLES		9.39
KELLY DOWN			12.92
TOTAL			2543.87
WT. OF D.C.	10		
WT. OF STRING	62		

BIT RECORD

BIT NO.	4
SIZE	156.0
IADC CODE	
MANUFACTURER	UNITED
TYPE	UD513
SERIAL NO.	2070
JETS	5 X 12.7
DEPTH OUT (m)	
DEPTH IN (m)	2442.00
TOTAL DRILLED (m)	101.00
TOTAL HRS RUN	11.25

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	1000 UP& DOWN
TORQUE AT BOTTOM	300
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED ☐	
TIME	1800	2030	2330	
DENSITY (kg/m3)	1020	1020	1020	
FUNNEL VISCOSITY	42	41	40	
FLUID LOSS (cm3)				
pH	11.0	10.0	10.0	
PVT.	70.30	69.80	68.40	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
0.00			

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	210	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
13000	127.0	105	127.0	

REDUCED PUMP SPEED: 4100 @ 60 @ 2534

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2489.71	3.10	315.0
2518.48	3.50	303.9

DRILLER SIGNATURE

DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2485.00	2543.00	D	30	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2215	6.25	2	DRILL FR./ 2485m-2534
2215	2230	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS ANN.
2230	2400	1.50	2	DRILL FR. 2534-2543

NOTES: FUNCTION SWACO CHOKE / CROWN SAVER
REVIEW J.S.A. ON, HOUSEKEEPING
CREW SAFTY MEETING ON " TARGET ZERO " OFF ROAD DRIVING
BLOW BOILER DOWN 2 X = 80 LITERS(each boiler)

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		OFF ROAD DRIVING	65	19505

EVENING TOUR FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN PREECE	GARY FORTH

DAILY CHECKS

	OPR BP	OPR GF	R.M. BP	R.M. GF
(1) Daily Walk Around Inspection				
(2) Detailed Inspection - Weekly (Using Check List)				
(3) H2S Signs Posted if Required				
(4) Well Licence & Stick Diagram Posted				
(5) Flare Lines Staked				
(6) BOP Drills Performed				
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines				
(1) Rig Site Health & Safety Meeting (one/crew/month)				
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)				
(3) Mast Inspection before Raising or Lowering				
(4) Crown Saver Checked				
(5) Motor Kills Checked				

YEAR	MONTH	DAY
2004	2	20

RIG NO. 37

FUEL @ 08:00 HRS

RIG	BOILER
24899	200

WEATHER — TEMPERATURE -5 — CURRENT CONDITIONS — WIND DIRECTION — ROAD CONDITION — SLIPPERY — GF

	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
LAST CASING	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
TUBING OR LINER	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

DC / DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	142.90	DC	65	165	4.5 XH	18	8P80	NATIONAL	216
DP	114	52.50	HWDP	70	159	4.5 XH	9	8P80	NATIONAL	216
	114	29.75	E3X3	92	159	4.5 XH	348			

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

CODE NO.

	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 RIG IN SPEC	23 RIG RAN	24 TRANSFER PIPE	25	26
MORN							0.25								2.75							3.00	2.00			
DAY							0.25								3.00					1.50						
EVE						7.00	0.25															0.75				
TOTAL						7.00	0.75								5.75					1.50		3.75	2.00			

TOTALS	SHALE SHAKER(S)		RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. 1 TYPE SWACO	TYPE	LOADER	14050	14068	14092
4.75	SCREENS CHANGED	NEW/USED		14116	14140	14164
8.00	TOP 175	TOP 175		14188	14564	14588
20.75	MIDDLE	MIDDLE				
	BOTTOM 110	BOTTOM 110				

DRILLING CREW PAYROLL DATA

WELL NAME & NO		YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME			
RIG MANAGER		RIG NO.		
PROVINCE	CAMP YES NO	RIG SAFETY DAYS		

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH

D.P. STANDS

D.P. SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

BIT RECORD

BIT NO.

SIZE

IADC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MORNING TOUR

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME

DENSITY (kg/m3)

FUNNEL VISCOSITY

FLUID LOSS (cm3)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	230	STACK TEMP

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	300	3.00	22	RIG UP RUNNING TOOL TO LANDSPEED&PACK OFF TOOL
300	315	0.25	7	RIG SERVICE
315	515	2.00	23	CHANGE PIPE RAMS TO 31/2,CLEAN TANKS
515	800	2.75	15	PRESSURE TEST MANIFOLD CHOKE LINES,BLIND RAMS,
800				MANIFOLD VALVES,H.C.R, KILL LINE VALVES,LOWER& UPPER PIPE RAMS
				LOW OF 1500 KPA,HIGH 21000 K.PA. 15 MIN EACH

NOTES: FUNCTION CROWN SAVER/SWACO CHOKE

REVIEW J.S.A. ON PRESSURE TEST

BLOWDOWN BOILER 2X EACH BOILER

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	PRESSURE TEST		

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	7.40
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33

D.P. STANDS

D.P. SINGLES

KELLY DOWN

TOTAL 247.74

WT. OF D.C.

WT. OF STRING

BIT RECORD

BIT NO. 4

SIZE 156.0

IADC CODE

MANUFACTURER UNITED

TYPE UD513

SERIAL NO. 2070

JETS 5 X 12.7

DEPTH OUT (m)

DEPTH IN (m) 2442.00

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

DAY TOUR

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME

DENSITY (kg/m3)

FUNNEL VISCOSITY

FLUID LOSS (cm3)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
N-VIS-P-PLUS	5	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ 0 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1100	3.00	15	PRESSURE TEST MANIFOLD,CHOKE LINES,MANIFOLD VALVES,H.C.R.,-
1100				BLIND RAMS,UPPER + LOWER PIPE RAMS, KILL LINE VALVES
				15900 KPA-LOW / 21000 KPA HIGH (15 MINUTES)ALL O.K.
				TEST ANNULAR 1500KPA LOW - 10500KPA HIGH (O.K.)
1100	1415	3.25		RIG UP 3-1/2 TONG S,STEAM CLEAN TANKS/WELD NEW SKIMMER IN M-TANKS
1415	1430	0.25	7	RIG SERVICE(FUNCTION BLINDRAMS,BOTHP-RAMS,ANNULAR)
1430	1600	1.50	20	DIR. WORK/MAKE-UP MOTOR AND MWD TOOLS TEST SAME
1600				

NOTES: REVIEWC JSA ON PRESSURE TESTING/ PICK UP PIPE W/LAYDOWN TRUCK

FUNCTION CROWN SAVER / SWACO CHOKE

BLOW BOILER DOWN 2 X = 80 LITERS(each Boiler)

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	PICK-UP PIPE		

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	BIT	0.14	
1	MOTOR	117	7.40
1	DUMP SUB	116	0.56
1	X/O - FLOAT	116	0.52
1	X.O.	116	0.56
1	HANG OFF COLLAR	119	9.50
2	MONEL	119	19.10
1	BYPASS SUB	118	2.40
1	D.C.	118	9.18
1	STAB	118	1.21
5	D.C.	119	46.18
1	JAR	122	3.89
6	D.C.	119	54.77
10	H.W.D.P.		92.33

D.P. STANDS

D.P. SINGLES

KELLY DOWN

TOTAL 247.74

WT. OF D.C.

WT. OF STRING

BIT RECORD

BIT NO. 4

SIZE 156.0

IADC CODE

MANUFACTURER UNITED

TYPE UD513

SERIAL NO. 2070

JETS 5 X 12.7

DEPTH OUT (m)

DEPTH IN (m) 2442.00

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

EVENING TOUR

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME	730	930	1130
DENSITY (kg/m3)	1025	1025	1025
FUNNEL VISCOSITY	55	55	55
FLUID LOSS (cm3)			
pH	9.0	9.0	9.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARABUF	1	SX
BARACARB 50	12	SX
BARACARB 5	12	SX
FILTER CHECK	12	SX
N-VIS-P-PLUS	6	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
0.00			

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	230	STACK TEMP

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
				0.0

REDUCED PUMP SPEED

@ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1830	2.50	6	MAKE-UP B.H.A.
1830	2015	1.75	6	PICK UP 3-1/2 D.P. TO 500m
2015	2030	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS ANN
2030	2315	2.75	6	CONTINUE TO PICK UP 31/2 D.P. FILL PIPE @ 1000,1450
2315	2400	0.75	22	TRANSFER PIPE OVER TO RACKS & STRAP

NOTES: FUNCTION CROWN SAVER/SWACO CHOKE

REVIEW J.S.A. ON PICK UP DRILL PIPE WITH L/D TRUCK

BLOW DOWN BOILER 2X EACH BOILER 160 LITRES

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	PICK UP D/P WITH L		

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN PREECE	GARY FORTH

DAILY CHECKS

	GPR	R.M.
(1) Daily Walk Around Inspection	BP	GF
(2) Detailed Inspection - Weekly (Using Check List)	BP	GF
(3) H2S Signs Posted if Required	BP	GF
(4) Well Licence & Stick Diagram Posted	BP	GF
(5) Flare Lines Staked		
(6) BOP Drills Performed	BP	GF
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1) Rig Site Health & Safety Meeting (one/crew/month)		GF
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3) Mast Inspection before Raising or Lowering		GF
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR	MONTH	DAY
2004	2	19

RIG NO. 37

FUEL @ 08:00 HRS

RIG	BOILER
120	14055

TEMPERATURE -25

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION SLIPPERY

	O.D. (mm)	MIN ID (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
LAST CASING	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
TUBING OR LINER	177.8	159.4	38.70	TENARIS	L80	171	2441.37	5.95	2439.52

	DC/CP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DRILL STRING		165	142.90	DC	65	165	4.5 XH	18
		114	52.50	HWDP	70	159	4.5 XH	9
		114	29.75	E3X3	92	159	4.5 XH	348

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216
8P80	NATIONAL	216

SPUD DATE	2004/02/07
RIG RELEASE	2004/02/28
WELL TYPE	
OPERATOR'S AFE	
KELLY BSHG	
CONTRACTOR'S JOB NUM	
TOUR SHEET SERIAL NUM	
VENDOR SOFTWARE VERSION	
TIME	16:00
TIME	23:59
RE-ENTRY	
OP FUEL	

CAODC

PASON DATAHUB

TIME BREAKDOWN

CODE NO:	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 PULL WARE BUSHING	23 SLIP & CUT DRILL LINE	24	25	26	TOTALS
MORN						2.00	0.25		1.25			1.25			0.25						0.25	2.75					8.00
DAY												7.75									0.25						8.00
EVE												7.25									0.25			0.50			8.00
TOTAL						2.00	0.25		1.25			16.25			0.25						0.75	2.75	0.50				24.00

SHALE SHAKER(S)

NO.	TYPE SWACO	TYPE
SCREENS CHANGED		NEW USED
TOP	175	TOP 175
MIDDLE		MIDDLE
BOTTOM	84	BOTTOM 110

RENTALS / SERVICES

	MORN	DAY	EVE
LOADER	14050	14068	14092
	14116	14140	14164
	14188	14564	

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.15
	BIT SUB	165	0.85
3	D.C.	165	28.09
1	JAR	166	4.69
1	PONY D.C.	164	3.44
11	D.C.	166	103.45
9	H.W.D.P.	160	83.97
113	D.P.	STANDS	2186.85
	D.P.	SINGLES	
	KELLY DOWN		4.09
	TOTAL		2415.58
	WT. OF D.C.		20
	WT. OF STRING		82

BIT RECORD

BIT NO.	3
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X
	15.9
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MORNING TOUR

MUD TYPE | WATER BASED ☐ | OIL BASED X

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	230	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS , ANN.
15	130	1.25	9	CUT & SLIP 25m OF DRILL LINE
130	330	2.00	6	LAY DOWN B.H.A FLOW CHECK , ON BANK
330	615	2.75	22	PULL WARE BUSHING, CHANGE RAM BLOCKS TO 7"
615				MAKE UP TEST PLUG
615	630	0.25	15	PRESSURE TEST RAM DOORS TO 10,000 K.P.A. HOLD FOR 10MIN.
630	645	0.25	21	SAFETY MTG. WITH TONG HAND
645	800	1.25	12	RIG TO & RUN CASING
800				

NOTES : FUNCTION CROWN SAVER/ SWACO CHOKE

REVIEW J.S.A. ON SLIP& CUT,RIG TO & RUN CSG.

BLOW DOWN BOILERS 2X EACH 160 LITRES

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				RIG TO & RUN CSG	80	5604

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

DAY TOUR

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
XCD-POLYMER	3	SX
BARABUF	4	SX
FILTER CHECK	20	SX
N-VIS-P-PLUS	3	SX
BARACARB 150	15	SX
CELLOPHANE	2	SX

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	220	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	12	RIG UP TONGHAND
815	830	0.25	21	SAFETY MTG. WITHCREW + TONGHAND
830	1600	7.50	12	MAKEUP FLOAT ,TEST/RUN CASING/FILL EVERY 20 JTS
1600				
				RAN F/S 1 X JT CASG F/C 170 JTS CASG 2 X PUPS MANDREL
				L/J LAND @ 2439.52 M CASG L80 177.8 MM 38.7 KG/M LT&C

NOTES : FUNCTION CROWN SAVER / SWACO CHOKE

REVIEW J.S.A. ON RIG TO AND RUN CASING

BLOW BOILER DOWN 2 X = 80 LITERS(each boiler)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				RIG TO AND RUN CASIG	65	504

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

EVENING TOUR

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	215	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1730	1.50	12	RUN CASING/FILL EVERY 20 JNTS.
1730	2030	3.00	12	PICK-UP CASING HANGER/CIRCULATE
2030	2045	0.25	21	SAFETY MTG. WITH HALIBERTON
2045	2330	2.75	12	RIG TO & CEMENT CSG.
2330	2400	0.50	23	RIG UP WASH TOOL TO FLUSH TOP OF MANDERAL HANGER
2400				
				PUMP 3M3 HT40+4L/M3 HIFLO IV 3M3 TUNED SPACER @ 1100 KG/M3
				DUAL SPACER A +8L/M3 DUAL SPACER B 31.4 M3 25.2 TON BR11LT
				+.6%HR5+.6%HALAD344 3.6M3 4.8 TON THERMAL CMT 1 + ADDICTIVES
				1/2 M3 TUNED SPACER RETURNS

NOTES : FUNCTION CROWN SAVER / SWACO CHOKE

REVIEW J.S.A. 'S ON CEMENT CSG.

BLOW BOILER DOWN 2 X = 80 LITERS (each boiler)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				cementing	70	5604

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.

WELL NAME & NO.
Anadarko Arrowhead K-35

OPERATOR
ANADARKO CANADA CORP.

CONTRACTOR NAME
AKITA DRILLING LTD.

SURFACE LOCATION
60:34:38.10 N 122:51:47.20

UNIQUE ID

SIGNATURE OF OPERATOR'S REPRESENTATIVE
BRIAN PREECE

SIGNATURE OF CONTRACTOR'S RIG MANAGER
GARY FORTH

DAILY CHECKS

	OPR	S.M.
(1) Daily Walk Around Inspection	BP	GF
(2) Detailed Inspection - Weekly (Using Check List)	BP	GF
(3) H2S Signs Posted if Required	BP	GF
(4) Well Licence & Stick Diagram Posted	BP	GF
(5) Flare Lines Staked	BP	GF
(6) BOP Drills Performed	BP	GF
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	GF
(1) Rig Site Health & Safety Meeting (once/crew/month)		GF
(2) CAODC Rig Safet Inspection Checklist (once/rig/month)		GF
(3) Mast Inspection before Raising or Lowering		GF
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		GF

YEAR 2004 MONTH 2 DAY 18
RIG NO. 37
FUEL @ 08:00 HRS
RIG 18225 BOILER

TEMPERATURE
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC OP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T..INT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	165	142.90	DC	65	165	4.5 XH	18	8P80	NATIONAL	216
	114	52.50	HWDP	70	159	4.5 XH	9	8P80	NATIONAL	216
	114	29.75	E3X3	92	159	4.5 XH	348			

CODE NO:	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 REPAIR/P. SPINNER	23 HANDLY DOWN	24	25	26
MORN						3.75	0.25				4.00															
DAY			0.50		2.25	4.50				0.75																
EVE						6.75	0.25														0.25	0.25	0.50			
TOTAL			0.50		2.25	15.00	0.50			0.75	4.00										0.25	0.25	0.50			

SHALE SHAKER(S) RENTALS / SERVICES

NO.	TYPE SWACO	TYPE		MORN	DAY	EVE
8.00	SCREENS CHANGED	NEW/ USED	LOADER	14050	14068	14092
8.00	TOP 175	TOP 175		14116	14140	14164
8.00	MIDDLE	MIDDLE		14188		
24.00	BOTTOM 84	BOTTOM 110				

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

DRILLING ASSEMBLY (AT END OF TOUR)

NO.		O.D.	LENGTH
1	BIT	0.15	
	BIT SUB	165	0.85
3	D.C.	165	28.09
1	JAR	166	4.69
1	PONY D.C.	164	3.44
11	D.C.	166	103.45
9	H.W.D.P.	160	83.97
113	D.P. STANDS		2186.85
	D.P. SINGLES		
	KELLY DOWN		4.09
	TOTAL		2415.58
	WT. OF D.C.	20	
	WT. OF STRING	82	

BIT RECORD

BIT NO.	3
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X 15.9
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MORNING TOUR — MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	230	STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0		127.0	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	400	4.00	11	FINISH RUNNING WIRELINE LOGS
400	415	0.25	7	RIG SERVICE FUNCTIO BLIND RAMS
415	515	1.00	6	MAKE UP BIT & RUN IN B.H.A
515	800	2.75	6	R.I.H FILL PIPE EVERY 500 m FLOW CHECK@ 500, 1000,1534,
800				

NOTES: CHECK CROWN SAVER,SWACO CHOKE
REVIEW J.S.A. ON R.I.H. PIPE SPINNER
BLOW DOWN BOILER 2X EACH BOILER160 LITRES

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		PIPE SPINNER		5604

DAY TOUR — MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	1330
DENSITY (kg/m3)	970
FUNNEL VISCOSITY	100
FLUID LOSS (cm3)	
pH	
PVT.	38.80

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARABUF	2	SX
FILTER CHECK	3	SX
BARITE	60	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0		127.0	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	945	1.75	6	R.I.H. /FLOW CHECK@ 1534m/FILL PIPE
945	1015	0.50	6	R.I.H./ FLOW CHECK@ 2037m/ FILL PIPE
1015	1045	0.50	6	R.I.H. / FLOW CHEC K@ 2420m/ FILL PIPE
1045	1115	0.50	3	WASH 3 SINGLES TO BOTTOM
1115	1330	2.25	5	CIR HOLE CLEAN/SAFETY MEETING WITHCREW-LAY-DOWN OPERATOR
1330	1415	0.75	10	FLOW CHECK DROP GYRO/ CIRCULATE GYRO DOWN/PUMP PILL
1415	1600	1.75	6	TRIPS/ P.O.O.H./L . D. DRILL STRING/FLOW CHECKS@2353m,
1600				

NOTES: FUNCTION CROWN SAVER/ SWACO CHOKE
REVIEW J.S.A. 'S ON TONG OPERATION/ R.I.H.
SAFETY AUDIT STEPHEN GREEN AKITA DRILLING LTD
BLOW BOILER DOWN 2 X = 80 LITERS(each boiler)

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		LAY OUT DRILL STRING	60	5604

EVENING TOUR — MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP		STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	6	TRIPS/P.O.O.H./LAY DOWN D.P./FLOWCHECK@2016m
1615	1630	0.25	22	REPAIR PIPE-SPINNER HOSE
1630	1900	2.50	6	LAY DOWN DRILL STRING/FLOWCHECK@ 1439M,
1900	1915	0.25	7	RIG SERVICE FUNCTION BOTH PIPE RAMS ,ANN
1915	1930	0.25	21	SAFETY MTG. WITH L/D TRUCK
1930	2330	4.00	6	LAY DOWN DRILL STRING/ FLOW CHECK @ 568,
2330	2400	0.50	23	PICK UP KELLY & BREAK QUILL& MUD SAVER& BLOW OUT WITH AIR
2400				

NOTES: FUNCTION CROWN SAVER/ SWACO CHOKE
REVIEW J.S.A. ON L/D DRILL STRING WITH L/D TRUCK,
BLOW DOWN BOILER 2X EACH BOILER 160 LITRES

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		U DOWN DRILL STRING		5604

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY
OPERATOR | CONTRACTOR NAME
RIG MANAGER | RIG NO.
PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN PREECE	GARY FORTH

DAILY CHECKS

	OPR	R.M.
(1) Daily Walk Around Inspection	BP	GF
(2) Detailed Inspection - Weekly (Using Check List)	BP	GF
(3) H2S Signs Posted if Required	BP	GF
(4) Well Licence & Stick Diagram Posted	BP	GF
(5) Flare Lines Staked	BP	GF
(6) BOP Drills Performed	BP	GF
(7) Visually Inspect BOPs, Flare Lines & Degasser Lines	BP	GF
(1) Rig Site Health & Safety Meeting (one/crew/month)		GF
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		
(3) Mast Inspection before Raising or Lowering		
(4) Crown Saver Checked		GF
(5) Motor Kills Checked		

WEATHER

YEAR 2004 MONTH 2 DAY 17

RIG NO. FUEL @ 08:00 HRS.

RIG 185 BOILER 23068

TEMPERATURE -28

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION SLIPPERY

LAST CASING / TUBING OR LINER	O.D. (mm)	MIN ID. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC / DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	165	142.90	DC	65	165	4.5 XH	18	8P80	NATIONAL	216
	114	52.50	HWDP	70	159	4.5 XH	9	8P80	NATIONAL	216
	114	29.75	E3X3	92	159	4.5 XH	348			

	SPUD DATE	2004/02/07	TIME	16:00
	RIG RELEASE	2004/02/28	TIME	23:59
	WELL TYPE		RE-ENTRY	
	OPERATOR'S AFE			
	KELLY BSHG		OP FUEL	
	CONTRACTOR'S JOB NUM			
	TOUR SHEET SERIAL NUM			
	VENDOR SOFTWARE VERSION			

PASON DATAHUB

CODE NO. 1 RIGUP & TEARDOWN | 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 WIRELINE LOGS | 12 RUN CSG & CEMENT | 13 WAIT ON CEMENT | 14 NIPPLE UP B.O.P. | 15 TEST B.O.P. | 16 DRILLSTEM TEST | 17 PLUG BACK | 18 SQUEEZE CEMENT | 19 FISHING | 20 DIR WORK | 21 SAFETY MEETING | 22 REPLACE SLIP DIES | 23 | 24 | 25 | 26

CREW TIME																									
MORN	3.00			3.25	1.25	0.25			0.25																
DAY				1.00	6.50																0.50				
EVE					5.00	0.25				2.50										0.25					
TOTAL	3.00			4.25	12.75	0.50			0.25	2.50										0.25	0.50				

TOTALS	SHALE SHAKER(S) NO.	TYPE SWACO	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
8.00	SCREENS CHANGED		NEW / USED	LOADER	14050	14068	14092
8.00	TOP 175		TOP 175		14116	14140	14164
8.00	MIDDLE		MIDDLE		14188		
24.00	BOTTOM 84		BOTTOM 110				

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.15
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
9	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
113	D.P. STANDS		2186.85
	D.P. SINGLES		
	KELLY DOWN		4.09
	TOTAL		2442.73
	WT. OF D.C.	20	
	WT. OF STRING	82	

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X 15.9
DEPTH OUT (m)	2442.00
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	496.00
TOTAL HRS RUN	39.25

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG 3 UP 2 DOWN

TORQUE AT BOTTOM 560

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	100	400	600
DENSITY (kg/m3)	955	950	955
FUNNEL VISCOSITY	85	83	85
FLUID LOSS (cm3)			
pH			
PVTM3	41.00	41.10	39.90

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BAROFIBER	14	
CAL CARB 325	14	
'CAL CARB 'O'	14	
BARITE	40	

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	950	910	1955

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	240	STACK TEMP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2411.00	2442.00	D	35	3

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
13800	127.0	90	127.0	90

REDUCED PUMP SPEED

2230 @ 80 @ 2411

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2395.57	1.10	206.2
2424.68	1.20	316.7

DRILLER SIGNATURE: GARY JESSOP

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	5	CIRCULATE UP SAMPLE
15	30	0.25	7	RIG SERVICE, FUNCTION ANNULAR, & BOTH PIPERAMS
30	100	0.50	2	DRILL F/ 2411-2421m
100	200	1.00	5	CIRCULATE UP SAMPLE
200	300	1.00	2	DRILL F/ 2421-2433m
300	400	1.00	5	CIRCULATE UP SAMPLE
400	500	1.00	2	DRILL F/ 2433-2440m
500	515	0.25	10	DEV. SURVEY @ 2424.68m INC 1.2 AZ 316.7
515	545	0.50	2	DRILL F/ 2440-2442.73m
545	645	1.00	5	CIRCULATE UP SAMPLE
645	800	1.25	6	WIPER TRIP, F.C. @2438, 2269m,
800				

NOTES: CHECK CROWN SAVER, SWACO CHOKE
REVIEW JSAs, MIXING MUD PRODUCTS
BLEW BOILERS 80 LITERS EACH

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: MIXING MUD PRODUCTS | MEHL: 84 | MACP: 5604

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

CREW	SOC INS. NO.	NAME	HRS	YES	NO

INJURIES

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.15
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
9	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
113	D.P. STANDS		2186.85
	D.P. SINGLES		
	KELLY DOWN		4.09
	TOTAL		2442.73
	WT. OF D.C.	20	
	WT. OF STRING	82	

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X 15.9
DEPTH OUT (m)	2442.00
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	496.00
TOTAL HRS RUN	39.25

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY			
FLUID LOSS (cm3)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARITE	60	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	220	STACK TEMP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	127.0		127.0	

REDUCED PUMP SPEED

@ 0 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	830	0.50	22	REPLACE SLIP DIES
830	930	1.00	6	TRIPS/ WIPER TRIP TO 1950m/F.C.@2269m,
930	1030	1.00	6	TRIPS/ RUN IN HOL
1030	1130	1.00	5	CIRCULATE / MIX PILL
1130	1600	4.50	6	TRIPS/PUMP PILL/P.O.O.H. TO LOG SLM FLOW CHECKS @2441,2345,
				FLOWCHECKS@ 2149m 1381m,

NOTES: FUNCTION CROWN SAVER /SWACO CHOKE
REVIEW J.S.A. ON TRIPPING /PIPE-SPINNER USE
BLOW BOILER DOWN 2 X =80 LITERS(EACH BOILER)

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: TRIPPING | MEHL: 85 | MACP: 5604

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

CREW	SOC INS. NO.	NAME	HRS	YES	NO

INJURIES

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.15
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
9	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
113	D.P. STANDS		2186.85
	D.P. SINGLES		
	KELLY DOWN		4.09
	TOTAL		2442.73
	WT. OF D.C.	20	
	WT. OF STRING	82	

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X 15.9
DEPTH OUT (m)	2442.00
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	496.00
TOTAL HRS RUN	39.25

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY			
FLUID LOSS (cm3)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	230	STACK TEMP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	127.0		127.0	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1800	2.00	6	P.O.O.H. TO LOG / FLOW CHECKS@ 290m
1800	1930	1.50	6	POOH W/ BHA FLOW CHECK BANK
1930	2100	1.50	6	L/D DIR TOOLS
2100	2115	0.25	7	RIG SERVICE FUNCTION BLIND RAMS 6 SEC
2115	2130	0.25	21	HOLD SAFETY MEETING W/PRECISION WIRE LINE AND CREW
2130	2400	2.50	11	R/U AND LOG WELL RUN SIT/HVC/SPD/CNT/CNT/VDR/DAC LOGGERS
				T.D - 2443
				STRAP OUT TALLY .45 SHORTER
				TRIP MUD/ MEAS-12.55m3/CALC./12.05m3 DIFF=.50m3

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. ON L/D DIRC . TOOLS,WIRE LINE LOGS
BLOW BOILER DOWN 2 X = 80 LITERS(EACH BOILER)

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: WIRELINE LOGS | MEHL | MACP

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

CREW	SOC INS. NO.	NAME	HRS	YES	NO

INJURIES

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
BRIAN PREECE	DAN PERRY

DAILY CHECKS

	QPR	R.M.
(1) Daily Walk Around Inspection	BP	DP
(2) Detailed Inspection - Weekly (Using Check List)	BP	DP
(3) H2S Signs Posted if Required	BP	DP
(4) Well Licence & Stick Diagram Posted	BP	DP
(5) Flare Lines Staked	BP	DP
(6) BOP Drills Performed	BP	DP
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	DP
(1) Rig Site Health & Safety Meeting (one/crew/month)		DP
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		DP
(3) Mast Inspection before Raising or Lowering		DP
(4) Crown Saver Checked		DP
(5) Motor Kills Checked		DP

YEAR 2004 | MONTH 2 | DAY 16

RIG NO. 37

FUEL @ 08:00 HRS

RIG	BOILER
140	16754

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN ID. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC/DP	DC/DP SIZE	MASS	GRADE	MIN/MUM I.D.	T. JNT O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	165	142.90	DC	65	165	4.5 XH	18	8P80	NATIONAL	216
	114	52.50	HWDP	70	159	4.5 XH	9	8P80	NATIONAL	216
	114	29.75	E3X3	92	159	4.5 XH	348			

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

TIME HRS

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26
MORN		6.75					0.25			1.00																
DAY		7.00					0.25			0.75																
EVE		6.50			0.50		0.25			0.75																
TOTAL		20.25			0.50		0.75			2.50																

TOTALS	SHALE SHAKER(S)	RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. TYPE SWACO / TYPE	LOADER	14050	14068	14092
8.00	SCREENS CHANGED YES / NEW USED		14116	14140	14164
8.00	TOP 175 / TOP 175		14188		
24.00	MIDDLE / MIDDLE				
	BOTTOM 84 / BOTTOM 110				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME			
RIG MANAGER		RIG NO.		
PROVINCE	CAMP YES / NO	RIG SAFETY DAYS		

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.15
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
109	D.P.	STANDS	1992.24
1	D.P.	SINGLES	9.73
KELLY DOWN			11.24
TOTAL			2265.00
WT. OF D.C.	21		
WT. OF STRING	76		

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X / 15.9
DEPTH OUT (m)	2265.00
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	319.00
TOTAL HRS RUN	29.25

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	3 UP 2 DOWN
TORQUE AT BOTTOM	430
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED		OIL BASED	X
TIME	100		400		630
DENSITY (kg/m3)	950		955		950
FUNNEL VISCOSITY	85		83		86
FLUID LOSS (cm3)					
pH					
PVTM3	60.10		63.60		61.80

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
LIME	10	
CALCIUM CHLORIDE	10	
FILTER CHECK	8	
GELTONE	4	

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	950	920	1970

BOILERS

	1		2
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	280	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
13000	127.0	90	127.0	90

REDUCED PUMP SPEED: 2300 @ 80 @ 2197

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2171.85	5.50	198.6
2200.96	5.40	200.7
2230.08	4.90	200.4

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2178.00	2265.00	D	35	3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	145	1.75	2	DRILL F/ 2178-2197m
145	200	0.25	7	RIG SERVICE, FUNCTION ANNULAR, & BOTH PIPERAMS
200	700	5.00	2	DRILL F/ 2197-2265m
700	800	1.00	10	DEV. SURVEY (ACCUMULATED)

NOTES: FUNCTION CROWN SAVER, SWACO CHOKE
REVIEW JSAs, BOILER BLOWDOWN, LOADER OPERATION
BLEW BOILERS 80 LITERS X 2

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				LOADER OPERATION	79	5604

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.15
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
107	D.P.	STANDS	2070.26
1	D.P.	SINGLES	9.75
KELLY DOWN			8.20
TOTAL			2340.00
WT. OF D.C.	20		
WT. OF STRING	78		

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X / 15.9
DEPTH OUT (m)	2340.00
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	394.00
TOTAL HRS RUN	36.25

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	3000UP / DOWN
TORQUE AT BOTTOM	300
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED		OIL BASED	X
TIME	900		1100		1400
DENSITY (kg/m3)	955		955		955
FUNNEL VISCOSITY	78		79		77
FLUID LOSS (cm3)					
pH					
PVTM3	58.60		57.40		55.60

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GELTONE	5	SX
SUSPENDTONE	5	SX
FILTER CHECK	4	SX
N-VIS-P-PLUS	4	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	955	910	1850

BOILERS

	1		2
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	220	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
10900	127.0	92	127.0	92

REDUCED PUMP SPEED: 1660 @ 60 @ 2303

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2259.33	5.00	197.7
2278.85	5.30	199.3
2298.22	5.20	200.5
2317.67	4.60	205.3

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2265.00	2340.00	D	30	2

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1200	4.00	2	DRILL FR./ 2265m- 2304m
1200	1215	0.25	7	RIG SERVICE(function upper + lower pipe-rams, annular)
1215	1515	3.00	2	DRILL FR./ 2304m- 2340m
1515	1600	0.75	10	ACCUMULATED SURVEYS/ CONNECTIO NS
1600				
				INSPECTED ALL FIRE EXTINGUSTERS AND EYE WASH STATIONS

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. ON LOCK-OUT PROCEDURES
BLOW BOILER DOWN 2 X = 80 LITERS(each boiler)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				LOCK-OUT POLICY	80	5572

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.15
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
111	D.P.	STANDS	2147.96
	D.P.	SINGLES	
KELLY DOWN			11.82
TOTAL			2411.57
WT. OF D.C.	20		
WT. OF STRING	79		

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X / 15.9
DEPTH OUT (m)	2340.00
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	394.00
TOTAL HRS RUN	36.25

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	3 UP 2 DOWN
TORQUE AT BOTTOM	570
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED		OIL BASED	X
TIME	1830		2000		2300
DENSITY (kg/m3)	955		955		950
FUNNEL VISCOSITY	79		90		85
FLUID LOSS (cm3)					
pH					
PVTM3	50.00		50.10		47.70

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARABUF	1	
CAL CARB 325	10	
CAL CARB 'O'	10	
BARITE	40	

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	955	910	1850

BOILERS

	1		2
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	210	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
13800	127.0	90	127.0	90

REDUCED PUMP SPEED: 2080 @ 68 @ 2382

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2337.37	4.50	189.0
2347.04	4.10	183.3
2376.23	2.70	180.6
2393.57	1.10	206.2

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2340.00	2411.00	D	30	2

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1945	3.75	2	DRILL FR./ 2340-2382m
1945	2015	0.50	10	DEV. SURVEY (ACCUMULATED)
2015	2030	0.25	7	RIG SERVICE, FUNCTION ANNULAR, & BOTH PIPERAMS
2030	2315	2.75	2	DRILL F/ 2382-2411m
2315	2330	0.25	10	DEV. SURVEY (ACCUMULATED)
2330	2400	0.50	5	CIRULATE UP SAMPLE
2400				

NOTES: FUNCTION SWACO CHOKE / CROWN SAVER
REVIEW J.S.A.' S ON TRIPPING , PIPE-SPINNER USE
CHECK ALL FIRE EXTINGUISHERS, EYE WASH STATIONS, ALL OK
BLOW BOILER DOWN 2 X = 80 LITERS(each boiler)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				TRIPPING	85	5604

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	DAN PERRY

DAILY CHECKS

	OPR	R.M.
(1) Daily Walk Around Inspection	BP	DP
(2) Detailed Inspection - Weekly (Using Check List)	BP	DP
(3) H2S Signs Posted if Required	BP	DP
(4) Well Licence & Stick Diagram Posted	BP	DP
(5) Flare Lines Staked	BP	DP
(6) BOP Drills Performed	BP	DP
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	DP
(1) Rig Site Health & Safety Meeting (one/crew/month)		DP
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		DP
(3) Mast Inspection before Raising or Lowering		DP
(4) Crown Saver Checked		DP
(5) Motor Kills Checked		DP

YEAR 2004 | MONTH 2 | DAY 15

RIG NO. 37 | FUEL @ 08:00 HRS | RIG 195 | BOILER 24311

TEMPERATURE | CURRENT CONDITIONS | WIND DIRECTION | ROAD CONDITION

Joint Inspection

LAST CASING TUBING OR LINER	O.D. (mm)	MIN ID (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
(1)	244.5	224.4	59.50		L80	50	653.00	595.00	653.00
(2)									
(3)									

DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T..INT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	165	142.90	DC	65	165	4.5 XH	18	8P80	NATIONAL	216
DP	114	52.50	HWDP	70	159	4.5 XH	9	8P80	NATIONAL	216
DP	114	29.75	E3X3	92	159	4.5 XH	348			

	SPUD DATE	2004/02/07	TIME	16:00
	RIG RELEASE	2004/02/28	TIME	23:59
	WELL TYPE		RE-ENTRY	
	OPERATOR'S AFE			
	KELLY BSHG		OP FUEL	
	CONTRACTOR'S JOB NUM			
	TOUR SHEET SERIAL NUM			
	VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

CODE NO.

	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26	TOTALS
MORN		7.00					0.25			0.75																	8.00
DAY		7.00					0.25			0.75																	8.00
EVE		7.00					0.25			0.75																	8.00
TOTAL		21.00					0.75			2.25																	24.00

SHALE SHAKER(S)

NO.	TYPE SWACO	TYPE	
	SCREENS CHANGED	NEW/ USED	
	TOP	TOP	
	MIDDLE	MIDDLE	
	BOTTOM	BOTTOM	

RENTALS / SERVICES

	MORN	DAY	EVE
LOADER	14050	14068	14092
	14116	14140	14164
	14188		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.15	
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
91	D.P. STANDS		1759.30
1	D.P. SINGLES		9.70
	KELLY DOWN		11.82
	TOTAL		2032.61
	WT. OF D.C.	20	
	WT. OF STRING	71	

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X
	15.9
DEPTH OUT (m)	
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	86.00
TOTAL HRS RUN	8.50

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	2 UP 2 DOWN
TORQUE AT BOTTOM	322
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	200	400	600
DENSITY (kg/m3)	970	970	975
FUNNEL VISCOSITY	87	85	88
FLUID LOSS (cm3)			
pH			
PVT	64.40	62.50	63.00

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARACARB 150	30	
BARACARB 10	30	
BARACARB 50	30	
CAL CARB 'O'	10	
CAL CARB 325	10	
CALCIUM CHLORIDE	20	
GELTONE	14	
DURATONE	14	
EZ-MUL	1	BBL

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	970	940	1910

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	250	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12200	127.0	90	127.0	90

REDUCED PUMP SPEED: 2200 @ 80 @ 1984

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1968.05	0.70	5.9
1997.22	0.50	329.1

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1963.00	2032.00	D	35	3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	215	2.25	2	DRILL FROM 1963-1984m
215	230	0.25	7	RIG SERVICE, FUNCTION ANNULAR & BOTH PIPERAMS
230	715	4.75	2	DRILL F/ 1984-2032m
715	800	0.75	10	DEV. SURVEY (ACCUMULATED)
800				

NOTES: FUNCTION CROWN SAVER, SWACO CHOKE
REVIEW JSA, DRIFTING CASING
FIT TEST ALL WORKERS FOR 1/2 FACE RESPERATORS
BLEW BOILERS 2 X 80 LITERS

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
DRIFTING CASING	75	5604

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.15	
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
95	D.P. STANDS		1836.86
	D.P. SINGLES		
	KELLY DOWN		11.35
	TOTAL		2100.00
	WT. OF D.C.	20	
	WT. OF STRING	75	

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X
	15.9
DEPTH OUT (m)	
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	154.00
TOTAL HRS RUN	15.50

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	2000 UP / DOWN
TORQUE AT BOTTOM	350
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	900	1130	1430
DENSITY (kg/m3)	960	960	965
FUNNEL VISCOSITY	90	88	91
FLUID LOSS (cm3)			
pH			
pvtm3	66.80	68.00	67.20

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARACARB 5	35	SX
BARACARB 150	35	SX
BARACARB 50	35	SX
LIME	14	SX
CALCIUM CHLORIDE	15	SX
DURATONE	3	SX
GELTONE	9	SX
CAL CARB 325	10	SX
CAL CARB 'O'	10	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	960	910	1800

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	220	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12200	127.0	92	127.0	92

REDUCED PUMP SPEED: 1600 @ 60 @ 2078

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2014.61	1.60	194.3
2045.70	2.70	192.2
2055.44	3.10	191.8

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2032.00	2100.00	D	30	3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1500	7.00	2	DRILL FR/ 2032M- 2100m
1500	1515	0.25	7	RIG SERVICE(function upper + lower pipe-rams, annular)
1515	1600	0.75	10	ACCUMULATED SURVEYS / CONNECTIONS
1600				

NOTES: FUNCTION SWACO CHOKE / CROWN SAVER
REVIEW J.S.A. ON DRIFTING CASING / TONG INSPECTION
BLOW BOILER DOWN 2 X = 80 LITERS(each boiler)

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
DRIFTING CASING	65	5572

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.15	
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
99	D.P. STANDS		1914.50
	D.P. SINGLES		
	KELLY DOWN		11.82
	TOTAL		2178.11
	WT. OF D.C.	20	
	WT. OF STRING	75	

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X
	15.9
DEPTH OUT (m)	
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	232.00
TOTAL HRS RUN	22.50

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	3 UP 2 DOWN
TORQUE AT BOTTOM	340
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	1900	2030	2300
DENSITY (kg/m3)	960	950	950
FUNNEL VISCOSITY	87	85	87
FLUID LOSS (cm3)			
pH			
PVTM3	64.60	63.30	61.30

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
FILTER CHECK	12	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	955	945	1900

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12500	127.0	90	127.0	90

REDUCED PUMP SPEED: 2300 @ 80 @ 2100

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
2084.47	5.40	195.2
2113.55	4.50	194.6
2142.65	5.50	190.1

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
2100.00	2178.00	D	30	3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE, FUNCTION ANNULAR & BOTH PIPERAMS
1615	2315	7.00	2	DRILL F/ 2100-2178m
2315	2400	0.75	10	DEV. SURVEY (ACCUMULATED)
2400				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. ONWORKING ON PIPE TUBS
BLOW BOILER DOWN 2 X = 80 LITERS(each boiler)

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
PIPE TUBS	79	5572

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.

WELL NAME & NO.
Anadarko Arrowhead K-35

OPERATOR
ANADARKO CANADA CORP.

CONTRACTOR NAME
AKITA DRILLING LTD.

SURFACE LOCATION
60:34:38.10 N 122:51:47.20

UNIQUE ID

SIGNATURE OF OPERATOR'S REPRESENTATIVE
BRIAN PREECE

SIGNATURE OF CONTRACTOR'S RIG MANAGER
DAN PERRY

DAILY CHECKS

	GPR	R.M.
(1.) Daily Walk Around Inspection	BP	DP
(2.) Detailed Inspection - Weekly (Using Check List)	BP	DP
(3.) H2S Signs Posted if Required	BP	DP
(4.) Well Licence & Stick Diagram Posted	BP	DP
(5.) Flare Lines Staked	BP	DP
(6.) BOP Drills Performed	BP	DP
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	DP
(1.) Rig Site Health & Safety Meeting (one/crew/month)		DP
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		DP
(3.) Mast Inspection before Raising or Lowering		DP
(4.) Crown Saver Checked		DP
(5.) Motor Kills Checked		DP

YEAR 2004 MONTH 2 DAY 14

RIG NO. 37

FUEL @ 08:00 HRS

RIG 125 BOILER 14517

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN ID. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC/CP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T..INT. O.D.	TYPE THREAD	NO. of JOINTS
	165	142.90	DC	65	165	4.5 XH	18
	114	52.50	HWDP	70	159	4.5 XH	9
	114	29.75	E3X3	92	159	4.5 XH	348

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216
8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

TIME BREAKDOWN

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26	TOTALS
MORN		4.50			0.75	2.25	0.25	0.25																			8.00
DAY						5.75	0.25		0.75											1.25							8.00
EVE		1.50				5.25	0.25	0.25	0.25	0.50																	8.00
TOTAL		6.00			0.75	13.25	0.75	0.50	1.00	0.50										1.25							24.00

SHALE SHAKER(S)

NO.	TYPE SWACO	TYPE
	SCREENS CHANGED	NEW / USED
	TOP 175	TOP 110
	MIDDLE	MIDDLE
	BOTTOM 110	BOTTOM 110

RENTALS / SERVICES

	MORN.	DAY.	EVE.
LOADER	14050	14068	14092
	14116	14140	14164
	14188		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
9	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
87	D.P. STANDS		1681.75
	D.P. SINGLES		
	KELLY DOWN		11.82
	TOTAL		1946.40
	WT. OF D.C.	20	
	WT. OF STRING	62	

BIT RECORD

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	1946.00
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	1293.00
TOTAL HRS RUN	54.75

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG: 3 UP 2 DOWN

TORQUE AT BOTTOM: 950

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	100	300	530
DENSITY (kg/m3)	955	955	955
FUNNEL VISCOSITY	87	87	88
FLUID LOSS (cm3)			
pH			
PVT	55.50	54.00	53.50

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BARABUF	1	
N-VIS-P-PLUS	11	
FILTER CHECK	5	
BARITE	50	

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	950	920	1930

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	240	STACK TEMP	

CIRCULATION PRESSURE kPa: 9500

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0	70	127.0	70

REDUCED PUMP SPEED: 1600 @ 80 @ 1933

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1929.00	1946.00	D	40	9

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	30	0.50	2	DRILL F/ 1929-1933m
30	45	0.25	8	CHANGE AIR BAG IN SUCTION LINE BETTWEEN MUDTANKS
45	100	0.25	7	RIG SERVICE, FUNCTION, ANNULAR & BOTH PIPERAMS
100	500	4.00	2	DRILL F/ 1933-1946m
500	545	0.75	5	COND MUD & CIRC
545	800	2.25	6	HOIST TO CHANGE B.H.A., FLOWCHECKS@ 1943,1845
800				

NOTES: FUNCTION CROWN SAVER, SWACO CHOKE
REVIEW JSAs, WINTER CONDITIONS, HOUSEKEEPING
BLEW BOILERS1 TIME EACH, 120 LITERS

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
HOUSEKEEPING	66	5604

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
1	BIT	0.15	
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
9	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
87	D.P. STANDS		1681.75
	D.P. SINGLES		
	KELLY DOWN		11.82
	TOTAL		1945.36
	WT. OF D.C.	20	
	WT. OF STRING	62	

BIT RECORD

BIT NO.	1	2
SIZE	215.0	215.0
IADC CODE		
MANUFACTURER	REED	REED
TYPE	DSX145HGJLW	216 UD513B
SERIAL NO.	104617	00694
JETS	3X 9.5 / 6X 7.1	5 X / 15.9
DEPTH OUT (m)	1946.00	
DEPTH IN (m)	653.00	1946.00
TOTAL DRILLED (m)	1293.00	
TOTAL HRS RUN	54.75	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR
2	8	FC	H		1.00	CT	PR	23.61

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	1000	100	1500
DENSITY (kg/m3)	960	955	955
FUNNEL VISCOSITY	89	88	88
FLUID LOSS (cm3)			
pH			
PVTM3	52.70	50.60	48.90

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	955	910	1950

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	210	STACK TEMP	

CIRCULATION PRESSURE kPa:

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0		127.0	

REDUCED PUMP SPEED: @ 0 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	945	1.75	6	POOH TO BHA FLOW CHECKS @ 1068, 283.
945	1045	1.00	6	POOH W/ BHA/FLOW CHECK OUT OF HOLE
1045	1200	1.25	20	RET MWD L/D MOTER AND 3 PT REAMER AND BIT FUNCTION BLIND RAMS
1200	1400	2.00	6	P/U DIR MTR SET @ 1.5 AKO M/U BIT INSTALL MWD
1400	1500	1.00	6	RIH W/BHA
1500	1515	0.25	7	RIG SERVICE FUNCTION TPR 6 SEC
1515	1600	0.75	9	CUT OFF DRILL LINE
1600				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. ON TRIPPING /MAKE-UP B.H.A. /CUT+ SLIP DRILL LINE

BLOW BOILER DOWN 2 X = 80 LITERS (EACH BOILER)

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
SLIP + CUT	50	5604

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
1	MOTOR	216	6.81
1	X.O.	157	0.25
1	FLOAT SUB	169	0.92
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	STAB	165	1.05
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
88	D.P. STANDS		1701.05
	D.P. SINGLES		
	KELLY DOWN		10.16
	TOTAL		1963.00
	WT. OF D.C.	20	
	WT. OF STRING	70	

BIT RECORD

BIT NO.	2
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	216 UD513B
SERIAL NO.	00694
JETS	5 X / 15.9
DEPTH OUT (m)	
DEPTH IN (m)	1946.00
TOTAL DRILLED (m)	17.00
TOTAL HRS RUN	1.50

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG: 3 UP 2 DOWN

TORQUE AT BOTTOM: 430

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	2300		
DENSITY (kg/m3)	960		
FUNNEL VISCOSITY	87		
FLUID LOSS (cm3)			
pH			
P.V.T.	53.40		

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	960	940	1730

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	250	STACK TEMP	

CIRCULATION PRESSURE kPa: 12800

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0	90	127.0	90

REDUCED PUMP SPEED: 2250 @ 80 @ 1946

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1938.96	1.40	359.4

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1946.00	1963.00	D	35	3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	9	SLIP AND CUT 25m DRILL LINE
1615	2130	5.25	6	RIH FILL INF PIPE EVERY 500 M W/ FLOW CHECKS@735,1219,1714m
2130	2145	0.25	7	RIG SERVICE, FUNCTION ANN,& BOTH PIPERAMS
2145	2200	0.25	8	CHANGE HOISTING CLUTCH CONTROL
2200	2330	1.50	2	DRILL F/ 1946-1963m
2330	2400	0.50	10	DEV. SURVEY (ACCUMULATED)
2400				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW JSA ON, TRIPPING IN HOLE, PIPE SPINNER USE

BLOW BOILER DOWN 2 X = 80 LITERS

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
TRIPS	75	5604

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO

INJURIES

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35

OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	DAN PERRY

DAILY CHECKS

	DP	RIG
(1) Daily Walk Around Inspection	BP	DP
(2) Detailed Inspection - Weekly (Using Check List)	BP	DP
(3) H2S Signs Posted if Required	BP	DP
(4) Well Licence & Stick Diagram Posted	BP	DP
(5) Flare Lines Staked	BP	DP
(6) BOP Drills Performed	BP	DP
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	DP
(1) Rig Site Health & Safety Meeting (one/crew/month)		DP
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		DP
(3) Mast Inspection before Raising or Lowering		DP
(4) Crown Saver Checked		DP
(5) Motor Kills Checked		DP

YEAR 2004 MONTH 2 DAY 13

RIG NO. 37

FUEL @ 08:00 HRS

RIG 175 BOILER 21750

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN ID. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T..INT. O.D	TYPE THREAD	NO. of JOINTS
	165	142.90	DC	65	165	4.5 XH	18
	114	52.50	HWDP	70	159	4.5 XH	9
	114	29.75	E3X3	92	159	4.5 XH	348

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216
8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

TIME BREAKDOWN

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26	TOTALS
MORN		7.25					0.25			0.50																	8.00
DAY		7.25					0.25			0.50																	8.00
EVE		6.50					0.50	0.50		0.50																	8.00
TOTAL		21.00					1.00	0.50		1.50																	24.00

SHALE SHAKER(S)

NO.	TYPE SWACO	TYPE
SCREENS CHANGED		NEW/ USED
TOP	175	TOP 110
MIDDLE		MIDDLE
BOTTOM	110	BOTTOM 110

RENTALS / SERVICES

	MORN	DAY	EVE
LOADER	14050	14068	14092
	14116	14140	14164
	14188		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR

BIT RECORD

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	1696.00
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	1043.00
TOTAL HRS RUN	38.25

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	3 up 3 down
TORQUE AT BOTTOM	800
FILL ON BOTTOM (m)	

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.24	
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
74	D.P. STANDS		1429.67
1	D.P. SINGLES		9.73
	KELLY DOWN		3.77
	TOTAL		1696.00
	WT. OF D.C.	20	
	WT. OF STRING	53	

MUD RECORD

MUD TYPE		WATER BASED ☐	OIL BASED X
TIME	230	430	630
DENSITY (kg/m3)	945	945	945
FUNNEL VISCOSITY	85	87	87
FLUID LOSS (cm3)			
pH			
PVT	62.40	60.10	59.80

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
LIME	5	
CALCIUM CHLORIDE	15	

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	945	930	1950

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	210	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
11800	127.0	90	127.0	90

REDUCED PUMP SPEED: 1500 @ 80 @ 1579

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1559.71	2.20	
1588.84	2.00	
1676.32	2.10	

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1538.00	1696.00	D	45	4

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	130	1.50	2	DRILL F/ 1538-1577m
130	145	0.25	7	RIG SERVICE, FUNCTION ANNULAR, PIPERAMS
145	730	5.75	2	DRILL F/ 1577-1696m
730	800	0.50	10	DEV. SURVEY (ACCUMULATED)
800				

NOTES: FUNCTION CROWN SAVER, SWACO CHOKE
REVIEW JSAs, STEAM USE, UNLOADING CASING WITH OPICKER
BLEW BOILERS 2X EACH 160 LITRES

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
UNLOADING CASING	75	5701

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

DAY TOUR

BIT RECORD

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	1830.00
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	1177.00
TOTAL HRS RUN	45.50

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	2000 UP / DOWN
TORQUE AT BOTTOM	650
FILL ON BOTTOM (m)	

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.24	
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
81	D.P. STANDS		1565.50
	D.P. SINGLES		11.67
	KELLY DOWN		1830.00
	TOTAL		
	WT. OF D.C.	20	
	WT. OF STRING	61	

MUD RECORD

MUD TYPE		WATER BASED ☐	OIL BASED X
TIME	900	1200	1400
DENSITY (kg/m3)	960	955	960
FUNNEL VISCOSITY	87	88	87
FLUID LOSS (cm3)			
pH			
PVTM3	71.80	70.30	69.60

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CALCIUM CHLORIDE	20	SX
LIME	10	SX
SODA ASH	3	SX
SODIUM BICARGONATE	1	SX
SODIUM SULPHITE	19	SX
BARABUF	1	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	955	930	1950

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	220	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
8750	127.0	90	127.0	90

REDUCED PUMP SPEED: 950 @ 90 @ 1780

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1705.50	2.10	
1734.56	2.00	
1763.59	2.00	
1792.73	1.90	

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1696.00	1830.00	D	20	5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1330	5.50	2	DRILL FR./ 1696m- 1781m
1330	1345	0.25	7	RIG SERVICE(function annular,upper+lower pipe-rams)
1345	1530	1.75	2	DRILLFR./ 1781m- 1830
1530	1600	0.50	10	ACCUMULATED SURVEYS / CONNECTIONS
1600				

NOTES: FUNCTION SWACO CHOKE / CROWN SAVER
REVIEW J.S.A.`S ON TUGGER OPERATION / LOADER OPERATION
INSPECT BRAKES,BANDS,LINKAGES. / FUNCTION MOTOR KILLS(STOPPED IN 3 SECONDS)
BLOW BOILER DOWN 2 X = 80 LITERS (EACH BOILER)

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
TUGGER USE	55	5701

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

EVENING TOUR

BIT RECORD

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	1276.00
TOTAL HRS RUN	52.00

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	3 UP 2 DOWN
TORQUE AT BOTTOM	850
FILL ON BOTTOM (m)	

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	0.24	
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
86	D.P. STANDS		1662.35
1	D.P. SINGLES		9.69
	KELLY DOWN		4.13
	TOTAL		1929.00
	WT. OF D.C.	20	
	WT. OF STRING	61	

MUD RECORD

MUD TYPE		WATER BASED ☐	OIL BASED X
TIME	2000	2200	2359
DENSITY (kg/m3)	945	945	950
FUNNEL VISCOSITY	87	85	87
FLUID LOSS (cm3)			
pH			
PVT	65.00	60.00	55.00

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
N-VIS-P-PLUS	15	
FILTER CHECK	7	
GELTONE	2	

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	945	910	1930

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	220	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
12500	127.0	90	127.0	90

REDUCED PUMP SPEED: 1650 @ 82 @ 1897

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1821.88	1.80	
1850.00	1.80	
1879.86	1.90	

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1830.00	1929.00	D	45	6

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1945	3.75	2	DRILL FR./ 1830m-1897m
1945	2000	0.25	10	DEV. SURVEY (ACCUMULATED)
2000	2030	0.50	7	RIG SERVICE, FUNCTION ANNULAR, BOTH PIPERAMS
2030	2100	0.50	2	DRILL F/ 1897-1907m
2100	2130	0.50	8	WORK ON ROTARY CLUTCH
2130	2345	2.25	2	DRILL F/ 1907-1929m
2345	2400	0.25	10	DEV. SURVEY (ACCUMULATED)
2400				

NOTES: FUNCTION SWACO CHOKE / CROWN SAVER
REVIEW JSAs, WORKING WITH INVERT, CHEC K DRIVE SHAFTS, U-JOINTS
BLEW BOILERS 2X EACH BOILER 160 LITRES

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
CHECK DRIVELINE	61	5604

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	DAN PERRY

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) H2S Signs Posted if Required
(4) Well Licence & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (one/crew/month)
(2) CAODC Rig Safet Inspectors Checklist (one/rig/month)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	OPR	R.M.
BP	DP	
BP	DP	
BP	DP	
BP	DP	
BP	DP	
BP	DP	
BP	DP	
	DP	
	DP	
	DP	

YEAR 2004 MONTH 2 DAY 12
RIG NO. 37
FUEL @ 08:00 HRS
RIG 134 BOILER 16011

WEATHER	TEMPERATURE	DC/ DP
	CURRENT CONDITIONS	
	WIND DIRECTION	
	ROAD CONDITION	

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
165	142.90	DC	65	165	4.5 XH	18	8P80	NATIONAL	216
114	52.50	HWDP	70	159	4.5 XH	9	8P80	NATIONAL	216
114	29.75	E3X3	92	159	4.5 XH	348			

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

TIME-HRS

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 REBOOT PASON	23	24	25	26
MORN		6.50					0.25			0.50												0.75				
DAY		6.75					0.50			0.75																
EVE		5.25			1.50	0.50	0.25			0.50																
TOTAL		18.50			1.50	0.50	1.00			1.75												0.75				

TOTALS	NO.	TYPE SWACO	TYPE	LOADER	MORN	DAY	EVE
8.00	SCREENS CHANGED		NEW/ USED		14050	14068	14092
8.00	TOP 175		TOP 110		14116	14140	14164
8.00	MIDDLE		MIDDLE		14188		
24.00	BOTTOM 110		BOTTOM 110				

SHALE SHAKER(S) / RENTALS / SERVICES

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME			
RIG MANAGER		RIG NO.		
PROVINCE	CAMP YES NO	RIG SAFETY DAYS		

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.24
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
47	D.P. STANDS		906.68
	D.P. SINGLES		
KELLY DOWN			11.82
TOTAL			1171.33
WT. OF D.C.	20		
WT. OF STRING	50		

BIT RECORD

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	518.00
TOTAL HRS RUN	19.00

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	2 UP 2 DOWN
TORQUE AT BOTTOM	740
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED ☐	OIL BASED X
TIME	100	330	530
DENSITY (kg/m3)	935	940	950
FUNNEL VISCOSITY	65	65	70
FLUID LOSS (cm3)			
pH			
PVT	72.50	67.30	62.40

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GELTONE	15	
SUSPENDTONE	10	

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	935	910	1950

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	200	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
10000	127.0	92	127.0	92

REDUCED PUMP SPEED: 1000 @ 65 @ 987

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
979.72	1.90	
1037.63	2.00	
1066.57	2.00	
1095.48	2.00	

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
968.00	1171.00	D	45	4

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	45	0.75	2	DRILL F/ 968-987m
45	100	0.25	7	RIG SERVICE, FUNCTION ANN, & BOTH PIPE RAMS, ALL OK
100	215	1.25	2	DRILL F/ 987-1026m
215	300	0.75	22	REBOOT PASON
300	730	4.50	2	DRILL F/ 1026-1171m
730	800	0.50	10	DEV. SURVEY (ACCUMULATED)

NOTES: FUNCTION CROWN SAVER, SWACO CHOKE, ALL OK
REVIEW JSA, MAKING CONNECTIONS
BLEW BOILERS, 2X EACH BOILER 160 LITRES
RECOVERD .5 CUBE INVERT

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				CONNECTIONS	52	5764

RATE SCHEDULE		REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR — FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.24
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
58	D.P. STANDS		1118.82
1	D.P. SINGLES		9.65
KELLY DOWN			5.70
TOTAL			1387.00
WT. OF D.C.	20		
WT. OF STRING	50		

BIT RECORD

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	1387.00
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	734.00
TOTAL HRS RUN	25.75

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	1-2000 UP / DOWN
TORQUE AT BOTTOM	750
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED ☐	OIL BASED X
TIME	900	1200	1300
DENSITY (kg/m3)	945	940	940
FUNNEL VISCOSITY	75	76	79
FLUID LOSS (cm3)			
pH			
PVTM3	70.00	68.70	66.40

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
LIME	5	SX
DURATONE	5	SX
BICARGONATE	1	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	945	910	1950

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	205	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
8450	127.0	90	127.0	90

REDUCED PUMP SPEED: 1000 @ 90 @ 1348

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1153.33	2.10	
1211.19	1.70	
1269.00	2.00	
1326.91	1.90	
1355.82	1.90	

DRILLER SIGNATURE: CURTIS VICKERS

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1171.00	1387.00	D	45	4

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1345	5.75	2	DRILL FR./1171m-1335m
1345	1415	0.50	7	RIG SERVICE(function annular, upper + lower pipe-rams)
1415	1515	1.00	2	DRILLFR / 1335m-1387m
1515	1600	0.75	10	ACCUMULATED SURVEYS/ CONNECTIONS
1600				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. ON WORKING WITH INVERT/ CHANGING OIL
INSPECT BRAKES,LINKAGES,BANDS/ FUNCTION MOTOR KILLS
BLOW BOILER DOWN 2 X = 80 LITERS (EACH BOILER)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				WORKIN WITH INVERT	51	5732

RATE SCHEDULE		REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR — FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
	BIT	O.D.	0.24
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
66	D.P. STANDS		1274.18
	D.P. SINGLES		
KELLY DOWN			11.82
TOTAL			1538.83
WT. OF D.C.	20		
WT. OF STRING	53		

BIT RECORD

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	653.00
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	734.00
TOTAL HRS RUN	31.00

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	4 UP 2 DOWN
TORQUE AT BOTTOM	800
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED ☐	OIL BASED X
TIME	1800	2100	2350
DENSITY (kg/m3)	950	945	945
FUNNEL VISCOSITY	87	87	85
FLUID LOSS (cm3)			
pH			
PVTM3	67.50	70.00	68.85

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	950	910	1780

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	215	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
11500	127.0	90	127.0	90

REDUCED PUMP SPEED: 1000 @ 80 @ 1500

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
1384.75	1.90	
1443.16	1.80	
1472.23	1.70	
1501.50	1.60	

DRILLER SIGNATURE: GARY JESSOP

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
1387.00	1538.00	D	45	5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1900	3.00	2	DRILL FR./ 1387m-1490m
1900	1915	0.25	10	DEV. SURVEY (ACCUMULATED)
1915	2015	1.00	5	CIRCULATE & WORK HOLE CLEAN
2015	2045	0.50	2	DRILL F/ 1490-1500m
2045	2115	0.50	5	CIRCULATE HOLE CLEAN
2115	2130	0.25	7	RIG SERVICE, FUNCTION ANNULAR & BOTH PIPERAMS
2130	2200	0.50	6	6 STAND WIPER TRIP, F.C. @ 1490, 1387m
2200	2345	1.75	2	DRILL F/ 1500-1538m
2345	2400	0.25	10	DEV. SURVEY (ACCUMULATED)
2400				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. ON, WORKING WITH MUD MOTOR
BLOW BOILER DOWN 2 X = 80 LITERS (EACH BOILER)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				DRILL WITH MUDMOTOR	80	5764

RATE SCHEDULE		REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR — FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	ROLF REULE

DAILY CHECKS

	OPR	RIG
(1) Daily Walk Around Inspection	BP	RR
(2) Detailed Inspection - Weekly (Using Check List)	BP	RR
(3) H2S Signs Posted if Required	BP	RR
(4) Well Licence & Stick Diagram Posted	BP	RR
(5) Flare Lines Staked	BP	RR
(6) BOP Drills Performed	BP	RR
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines	BP	RR
(1) Rig Site Health & Safety Meeting (one/crew/month)		RR
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		RR
(3) Mast Inspection before Raising or Lowering		RR
(4) Crown Saver Checked		RR
(5) Motor Kills Checked		RR

YEAR 2004 MONTH 2 DAY 11

RIG NO. 37

FUEL @ 08:00 HRS

RIG	BOILER
170	21069

TEMPERATURE

CURRENT CONDITIONS	DC / DP
WIND DIRECTION	
ROAD CONDITION	

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
165	142.90	DC	65	165	4.5 XH	18	8P80	NATIONAL	216
114	52.50	HWDP	70	159	4.5 XH	9			
114	29.75	E3X3	92	159	4.5 XH	348			

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		CP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME			
RIG MANAGER		RIG NO.		
PROVINCE	CAMP YES NO	RIG SAFETY DAYS		

CODE NO.

	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 BOP DRILL	23 DRILL OUT	24 FORMATION	25 INTEGRITY TEST	26
MORN		0.50			1.25	3.75	0.25															0.25	1.75	0.25		
DAY		4.00					0.25			0.25														3.50		
EVE		6.25					0.25	1.00		0.50																
TOTAL		10.75			1.25	3.75	0.75	1.00		0.75												0.25	1.75	3.75		

TOTALS	SHALE SHAKER(S)	RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. TYPE SWACO TYPE	LOADER	14050	14068	14092
8.00	SCREENS CHANGED NEW USED		14116	14140	14164
8.00	TOP 175 TOP 110		14188		
24.00	MIDDLE MIDDLE BOTTOM 110 BOTTOM 110				

BHA

NO.	DRILLING ASSEMBLY AT END OF TOUR		LENGTH
1	BIT	O.D.	0.24
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
20	D.P.	STANDS	385.75
1	D.P.	SINGLES	9.65
KELLY DOWN			9.77
TOTAL			658.00
WT. OF D.C.	28		
WT. OF STRING	38		

BIT RECORD

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	5.00
TOTAL HRS RUN	2.25

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MORNING TOUR — MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME			630
DENSITY (kg/m3)			960
FUNNEL VISCOSITY			56
FLUID LOSS (cm3)			
pH			
P.V.T.			55.00

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
653.00	658.00	D	45	7

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE FUNCTION PIPE RAMS, ANN.
15	100	0.75	6	RUN IN BHA
100	400	3.00	6	RIH TO 327 M P/U DP RIH TAG CMT @ 635 M
400	500	1.00	5	DISPLACE HOLE TO INVERT MUD
500	515	0.25	22	BOP DRILL WELL SECURE IN 3 MINUTES
515	700	1.75	23	DRILL OUT FLOAT, CEMENT ,SHOE@653 M
700	715	0.25	5	CIRC. HOLE CLEAN
715	745	0.50	2	DRILL FR. 653-658
745	800	0.25	24	RIG UP INLAND PRESSURE TESTERS TO PREFORM FORMATION
800				INTEGRITY TEST
				VISUALLY INSPECTED ALL FLARE LINES AND DEGASSER LINES AND
				DEGASSER AND FLARE TANK ALL CONNECTIONS OK
				ESCAPE BUGGY VISUALLY INSPECTED AND TESTED OK GAS DETECTOR
				TESTED OK AIR HORNS TESTED OK ALL PVT ALARMS TESTED OK

NOTES: ANTIFREEZE TO -45 CELSIUS CHECKED CROWN SAVER OK
REVIEW JSA ON RUN IN PIPE SPINNER
BLOW DOWN BOILER 2X EACH BOILER 160 LITRES

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	960	910	1890

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	230	STACK TEMP	

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0	95	127.0	95

REDUCED PUMP SPEED: 1800 @ 59 @ 640

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
		RUN IN		

DAY TOUR — MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	800	1100	1300
DENSITY (kg/m3)	935	935	930
FUNNEL VISCOSITY	56	58	58
FLUID LOSS (cm3)			
pH			
PVTM3	56.20	55.40	56.30

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
658.00	756.00	D	45	6

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1130	3.50	24	PERFORM FORMATION INTEGRITY TEST WITH INLAND TESTERS
1130				935KG/M3 MW 5747 KPA SURFACE PRESS =18 KPA/M
				TEST SURFACE LINES AND KELLY COCK TO 1500 KPA LOW 14500 HIGH
				ALL TESTS OK
1130	1530	4.00	2	DRILL FR./ 658m-756m
1530	1545	0.25	7	RIG SERVICE(FUNCTION ANNULAR , UPPER/LOWER P-RAMS)
1545	1600	0.25	10	ACCUMULATED SURVEYS/ CONNECTIONS
1600				
				HOLD B.O.P. DRILL WITH CREW (WELL SECURED IN 95 SECONDS)

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW J.S.A. ON MAKING CONNECTIONS / DRILLING WITH MUD MOTOR/PRESSURE TEST/
INSPECT BRAKES , LINKA GES , BANDS , DEAD-MAN ANCHOR BOLTS
BLOW BOILER DOWN2 X = 80 LITERS EACH BOILER

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
		CONNECTIONS	45	5764

EVENING TOUR — MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☒

TIME	1800	2000	2300
DENSITY (kg/m3)	925	930	935
FUNNEL VISCOSITY	58	59	62
FLUID LOSS (cm3)			
pH			
PVTM3	69.70	65.00	62.00

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
756.00	968.00	D	45	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1700	1.00	8	REPAIR FUEL LINE/PASON SENSOR IN STAND PIPE
1700	1930	2.50	2	DRILL FR./ 756M-843
1930	1945	0.25	7	RIG SERVICE FUNCTION ANN. BOTH PIPE RAMS
1945	2330	3.75	2	DRILL FR. 843-968m
2330	2400	0.50	10	DEV. SURVEY (ACCUMULATED)
2400				

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
REVIEW JSA ON,MOUSE HOLING D.P.
BLOW BOILER DOWN, 65 LITERS

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
		MOUSEHOLING PIPE	45	5764

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	756.00
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	103.00
TOTAL HRS RUN	6.25

NO.	DRILLING ASSEMBLY AT END OF TOUR		LENGTH
1	BIT	O.D.	0.24
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
25	D.P.	STANDS	482.27
1	D.P.	SINGLES	9.66
KELLY DOWN			11.24
TOTAL			756.00
WT. OF D.C.	28		
WT. OF STRING	40		

HOLE DRAG	1000 UP / DOWN
TORQUE AT BOTTOM	650
FILL ON BOTTOM (m)	

PRODUCT	AMOUNT	UNIT

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	935	915	1780

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	215	STACK TEMP	

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0	90	127.0	90

REDUCED PUMP SPEED: @ 60 @

DEPTH (m)	DEVIATION	DIRECTION
661.33	0.90	
719.26	0.50	

DRILLER SIGNATURE: CURTIS VICKERS

BIT NO.	1
SIZE	215.0
IADC CODE	
MANUFACTURER	REED
TYPE	DSX145HGJLW
SERIAL NO.	104617
JETS	3X 9.5 / 6X 7.1
DEPTH OUT (m)	
DEPTH IN (m)	653.00
TOTAL DRILLED (m)	315.00
TOTAL HRS RUN	12.50

NO.	DRILLING ASSEMBLY AT END OF TOUR		LENGTH
1	BIT	O.D.	0.24
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
3	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97
36	D.P.	STANDS	694.41
1	D.P.	SINGLES	9.62
KELLY DOWN			11.82
TOTAL			968.68
WT. OF D.C.	20		
WT. OF STRING	47		

HOLE DRAG	2 UP 2 DOWN
TORQUE AT BOTTOM	550
FILL ON BOTTOM (m)	

PRODUCT	AMOUNT	UNIT
GELTONE	15	
SUSPENDTONE	15	
LIME	10	

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	935	910	1900

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	220	STACK TEMP	

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
127.0	90	127.0	90

REDUCED PUMP SPEED: 1250 @ 88 @ 843

DEPTH (m)	DEVIATION	DIRECTION
748.23	0.70	
806.06	0.90	
863.90	1.30	
892.83	1.30	
921.75	1.40	

DRILLER SIGNATURE: DAN PERRY

MORNING TOUR — CREW

FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR — CREW

FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR — CREW

FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.

WELL NAME & NO.
Anadarko Arrowhead K-35

OPERATOR
ANADARKO CANADA CORP.

CONTRACTOR NAME
AKITA DRILLING LTD.

SURFACE LOCATION
60:34:38.10 N 122:51:47.20

UNIQUE ID

SIGNATURE OF OPERATOR'S REPRESENTATIVE
BRIAN PREECE

SIGNATURE OF CONTRACTOR'S RIG MANAGER
ROLF REULE

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) H2S Signs Posted if Required
(4) Well Licence & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines
(1) Rig Site Health & Safety Meeting (one/crew/month)
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	DPR	R.M.
	BP	RR
	BP	RR
	BP	RR
	BP	RR
	BP	RR
	BP	RR
		RR
		RR
		RR
		RR

YEAR 2004 MONTH 2 DAY 10
RIG NO. 37
FUEL @ 08:00 HRS
RIG BOILER

WEATHER
TEMPERATURE
CURRENT CONDITIONS DC/DP
WIND DIRECTION 165
ROAD CONDITION 114
114

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
165	142.90	DC	65	165	4.5 XH	18
114	52.50	HWDP	70	159	4.5 XH	9
114	29.75	E3X3	92	159	4.5 XH	348

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC
PASON DATAHUB

TIME BREAKDOWNS

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 MAKE-UP BHA	23 INSTALL WEAR BUSHING	24 SLIP & CUT DRILL LINE	25 SKID TO RACKS	26
MORN						0.50	0.25							6.25									0.25	0.75		
DAY						0.50	0.25																	7.25		
EVE						1.50														3.00		3.50				
TOTAL						2.50	0.50							6.25						3.00		3.50	0.25	8.00		

TOTALS	SHALE SHAKER(S) NO.	TYPE SWACO	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
8.00	SCREENS CHANGED	NEW/ USED		LOADER	14050	14068	14092
8.00	TOP 175	TOP 110			14116	14140	14164
8.00	MIDDLE	MIDDLE			14188		
24.00	BOTTOM 175	BOTTOM 110					

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY
OPERATOR | CONTRACTOR NAME
RIG MANAGER | RIG NO.
PROVINCE | CAMP YES NO | RIG SAFETY DAYS

MORNING TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH

DP. STANDS
DP. SINGLES
KELLY DOWN
TOTAL
WT. OF D.C.
WT. OF STRING

BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

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

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED X
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	240	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | SPM | PUMP NO. 2 LINER SIZE | SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

DRILLER SIGNATURE: MARC LEVESQUE

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE CHECK CROWN SAVER OK
15	45	0.50	6	HOIST TEST PLUG AND REMOVE AND LAY SINGLE DRILL PIPE DOWN
45	700	6.25	14	CONTINUE TO WINTERIZE SUB STRUCTURE BY TARPING IN AND
				FINISH HOOK UP DEGASSER AND FLARELINES TO FLARE TANK
				RIG UP LOAD LINE AND IGNITION SYSTEM FROM FLARE TANK
				WORK WITH WELDER TO EXTEND SHALE SLIDES TO SUIT SHALE TANK
				AND RELATED EQUIPMENT IN SHALE TANK RIG UP KATCH PAN
				ASSEMBLY ON BOPS
700	715	0.25	23	INSTALL WEAR BUSHING
715	800	0.75	24	MOVE BHA TO PIPE RACKS
800				

NOTES :

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

DAY TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH

DP. STANDS
DP. SINGLES
KELLY DOWN
TOTAL
WT. OF D.C.
WT. OF STRING

BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

4.00		900	1900

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	240	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | SPM | PUMP NO. 2 LINER SIZE | SPM

REDUCED PUMP SPEED: @ | 0 | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

DRILLER SIGNATURE: DAN PERRY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE CHECK CROWN SAVER OK
815	1530	7.25	24	CONTINUE TO PLACE BHA CONSISTING OF TOOLS AND DRILL
1530				COLLARS AND HWDP ONTO DRILL PIPE RACKS MEASURE AND CALIPER
				ALL TOOLS DRILL COLLARS AND HWDP GET DRILL PIPE READY TO
				BE PICKED UP AND STRAP
1530	1600	0.50	6	P/U MOTOR
1600				

NOTES :

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

EVENING TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH
1	ROLLER REAMER	215	0.94
1	SQUARE MOTOR	175	8.00
1	X/O -FLOAT SUB	168	0.54
1	X.O.	170	0.50
1	N.MAG. D.C	159	8.56
1	HANG OFF SUB	164	1.64
1	N.MAG . D.C.	159	8.21
1	X.O.	165	0.56
9	D.C.	161	28.09
1	JAR	164	4.69
1	PONY D.C.	166	3.44
11	D.C.	161	103.45
9	H.W.D.P.	160	83.97

DP. STANDS
DP. SINGLES
KELLY DOWN
TOTAL 252.83
WT. OF D.C. 20
WT. OF STRING 30

BIT NO. 1 | SIZE 215.0 | IADC CODE | MANUFACTURER REED | TYPE DSX145HGJLW | SERIAL NO. 104617 | JETS 3X 9.5, 6X 7.1 | DEPTH OUT (m) | DEPTH IN (m) 653.00 | TOTAL DRILLED (m) 0.00 | TOTAL HRS RUN

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

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

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED X
TIME 1830
DENSITY (kg/m3) 915
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	16.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	210	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | SPM | PUMP NO. 2 LINER SIZE | SPM (0.0)

REDUCED PUMP SPEED: @ | 0 | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

DRILLER SIGNATURE: CURTIS VICKERS

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1930	3.50	22	XO MISSING FOR MWD TOOLS M/U BIT REAMER SQ MTR F/S P/U BHA
1930	2100	1.50	6	P/U DRILL PIPE TO 327 M
2100	2230	1.50	20	SUB ARRIVED ON LOC. POOH
2230	2345	1.25	20	M/U MWD TOOLS
2345	2400	0.25	20	RIG SERVICE FUNCTION ANNULAR 20 SEC
2400				

NOTES: REVIEW J.S.A ON PICKING UP TUBULARS
FUNCTION CROWN SAVER/ SWACO CHOKE
FUNCTIONED BLIND RAMS/ANNULAR/PIPE RAMS
BLOW BOILER DOWN 2 X = 80 LITERS/EACH BOILER)

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: PICKING UP PIPE | MEHL: 30 | MACP

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	NO

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	ROLF REULE

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) H2S Signs Posted if Required
(4) Well Licence & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (one/crew/month)
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

	CPB	R.M.
	BP	RR
	BP	RR
	BP	RR
	BP	RR
	BP	RR
	BP	RR
	BP	RR
		RR
		RR
		RR

YEAR 2004 MONTH 2 DAY 9
RIG NO. 37
FUEL @ 08:00 HRS
RIG BOILER

TEMPERATURE
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L80	50	653.00	595.00	653.00

DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT O.D.	TYPE THREAD	NO. of JOINTS

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216

SPUD DATE	2004/02/07
TIME	16:00
RIG RELEASE	2004/02/28
TIME	23:59
WELL TYPE	
RE-ENTRY	
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	
TOUR SHEET SERIAL NUM	
VENDOR SOFTWARE VERSION	

CAODC

PASON DATAHUB

TIME BREAKDOWN

CODE NO. 1 RIG/UP & TEARDOWN | 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 WIRELINE LOGS | 12 RUN CSG & CEMENT | 13 WAIT ON CEMENT | 14 NIPPLE UP B.O.P. | 15 TEST B.O.P. | 16 DRILLSTEM TEST | 17 PLUG BACK | 18 SQUEEZE CEMENT | 19 FISHING | 20 DIR. WORK | 21 SAFETY MEETING | 22 CHANGE KELLY BAR | 23 | 24 | 25 | 26 | TOTALS

MORN						0.25							7.75													8.00
DAY						0.25							3.75							2.50	1.50					8.00
EVE					0.50	0.25								7.25												8.00
TOTAL					0.50	0.75							11.50	7.25						2.50	1.50					24.00

SHALE SHAKER(S) NO. | TYPE SWACO | TYPE | SCREEN CHANGED | NEW/ USED | TOP | TOP | MIDDLE | MIDDLE | BOTTOM | BOTTOM

					175		110		
					175		110		

RENTALS / SERVICES

	MORN.	DAY.	EVE.
LOADER	14050	14068	14092
	14116	14140	14164
	14188		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY
OPERATOR | CONTRACTOR NAME
RIG MANAGER | RIG NO.
PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | LENGTH

BIT | O.D.

DP. STANDS
DP. SINGLES
KELLY DOWN
TOTAL
WT. OF D.C.
WT. OF STRING

BIT RECORD

BIT NO.
SIZE
IADC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	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 VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	240	STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARC LEVESQUE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE AND CHECK CROWN SAVER OK
15	800	7.75	14	NIPPLE UP B.O.P. AND RIG UP FLARE LINES AND DEGASSER LINES
800				AND FLARE TANK

NOTES: REVIEW JSA ON NIPPLE UP.
BLOW BOTH BOILERS DOWN 2 X = 160 L

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
		RIG UP FLARE LINES		

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

DAY TOUR

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | LENGTH

BIT | O.D.

DP. STANDS
DP. SINGLES
KELLY DOWN
TOTAL
WT. OF D.C.
WT. OF STRING

BIT RECORD

BIT NO.
SIZE
IADC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	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 VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	240	STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE CHECK CROWN SAVER OK
815	1200	3.75	14	CONTINUE TO HOOK UP FLARE LINE AND DEGASSER LINES AND
1200				INSULATE BLEED OFF LINES HOOK UP UPRIGHT DEGASSER
1200	1330	1.50	22	PICK UP KELLY AND CHANGE KELLY BAR AND UPPER KELLY COCK
1330	1530	2.00	21	HELD PRESPUD MEETING WITH ANADARKO OFFICE PERSONNEL AND
1500				ALL CREW MEMBERS AND THIRD PARTY SERVICES
1530	1600	0.50	21	HELD SAFETY MEETING WITH INLAND PRESSURE TESTER
1600				REPRESENTATIVE PRIOR TO PRESSURE TEST BOPS AND ALL
				RELATED EQUIPMENT

NOTES:

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

EVENING TOUR

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | LENGTH

BIT | O.D.

DP. STANDS
DP. SINGLES
KELLY DOWN
TOTAL
WT. OF D.C.
WT. OF STRING

BIT RECORD

BIT NO.
SIZE
IADC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	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 VISCOSITY
FLUID LOSS (cm3)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	240	STACK TEMP

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARC LEVESQUE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE AND CHECK MOTOR SHUTOFFS OK
1615	1930	3.25	15	PSI BLIND RAMS AND MANIFOLD AND CHOKES AND KILL LINE
1930				VALVES AND HCR VALVE AND MANUAL BLEED OFF LINE 1500 KPA
				LOW AND 21000 KPA HIGH 15 MINS EACH OK
1930	2000	0.50	6	PICK UP SINGLE OF DRILL PIPE AND INSTALL TEST PLUG AND
2000				POSITION IN WELL BORE
2000	2030	0.50	15	PSI UPPER PIPE RAMS 1500 KPA LOW AND 21000 KPA HIGH 15
2030				MINS EACH OK
2030	2100	0.50	15	PSI LOWER PIPE RAMS 1500 KPA LOW AND 21000 KPA HIGH 15
2100				MINS EACH OK
2100	2130	0.50	15	PSI ANNULAR PREVENTER 1500 KPA LOW AND 10500 KPA HIGH
2130				15 MINS EACH OK
2130	2200	0.50	15	PSI STABBING VALVE 1500 KPA LOW AND 21000 KPA HIGH 15
2200				MINS EACH OK
2200	2230	0.50	15	PSI INSIDE BOP 1500 KPA LOW AND 21000 KPA HIGH 15 MINS

NOTES: FUNCTION CROWN SAVER / SWACO CHOKE
FUNCTION MOTOR KILLS MOTORS DOWN IN 5 SEC.
REVIEW JSA ON HANDLING TUBULARS
BLOW BOTH BOILERS DOWN 2 X = 160L

SPECIAL EVENT	TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
		RIG UP		

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	Anadarko Arrowhead K-35
OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
BRIAN PREECE	ROLF REULE

DAILY CHECKS

	OPR	R.M.
(1) Daily Walk Around Inspection	B/P	RR
(2) Detailed Inspection - Weekly (Using Check List)		RR
(3) H2S Signs Posted if Required		
(4) Well Licence & Stick Diagram Posted		
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1) Rig Site Health & Safety Meeting (one/crew/month)		RR
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		RR
(3) Mast Inspection before Raising or Lowering		RR
(4) Crown Saver Checked		RR
(5) Motor Kills Checked		RR

YEAR 2004 | MONTH 2 | DAY 8

RIG NO. 37

FUEL @ 08:00 HRS

RIG | BOILER

WEATHER

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50		L-80	50	653.00	595.00	653.00

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
	89	24.07	E / X-95	65	121	3.5 IF	311
	89	35.35	HWDP	57	121	3.5 IF	31
	121	58.76	DC	57	121	3.5 IF	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8P80	NATIONAL	216

SPUD DATE	2004/02/07	TIME	16:00
RIG RELEASE	2004/02/28	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTORS JOB NUM			
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26	TOTALS
MORN																										
DAY	7.75																				0.25						8.00
EVE	3.75						0.25							4.00													8.00
TOTAL	11.50						0.25							4.00							0.25						16.00

SHALE SHAKER(S) | SCREENS CHANGED | NEW / USED | TOP 175 | TOP 110 | MIDDLE | MIDDLE | BOTTOM 175 | BOTTOM 110

RENTALS / SERVICES

NO.	TYPE SWACO	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
			LOADER	14050	14068	14092
				14116	14140	14164
				14188		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

BIT RECORD

NO. | DRILLING ASSEMBLY (AT END OF TOUR) | LENGTH

BIT | O.D.

D.P. STANDS

D.P. SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: T1 | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

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

MORNING TOUR

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME | DENSITY (kg/m3) | FUNNEL VISCOSITY | FLUID LOSS (cm3) | pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	0.00	HRS RUN
BOILER pH		BOILER pH
STACK TEMP		STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARC LEVESQUE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0				HELP DAYLIGHTS RIG UP

NOTES:

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

MORNING TOUR FROM 0 TO 800 | INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME | DENSITY (kg/m3) | FUNNEL VISCOSITY | FLUID LOSS (cm3) | pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	4.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	240	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DAN PERRY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	21	HELD SAFETY MEETING WITH MIGHTY PEACE OILFIELD HAULING
815				DRIVERS AND SWAMPERS PRIO TO FINISH RIG UP
815	1600	7.75	1	WORK WITH CHERRY PICKER AND BED TRUCK TO FINISH RIG UP
1600				BUILDINGS HEAT AND SERVICE RIG LIGHT PLANT AND FLOOR MOTOR
				AND FIRE UP RIG UP FUEL LINES AND AIR LINES AND ELECTRICAL
				CORDS RIG TO RAISE DERRICK AND RAISE SAME RIG UP WATER AND
				STEAM LINES AND GET WATER AND STEAM CIRCULATING RIG UP
				PREFABS
				FIRED UP BOILER ONE AT 1200 HRS FEB 8/2004
				NOTE VISUALLY INSPECTED DERRICK AND CHECK COTTER PINS IN
				BRAKE BAND PINS PRIOR TO RAISE DERRICK

NOTES:

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

DAY TOUR FROM 800 TO 1600 | INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME | DENSITY (kg/m3) | FUNNEL VISCOSITY | FLUID LOSS (cm3) | pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	16.00	HRS RUN
BOILER pH	10.5	BOILER pH
STACK TEMP	240	STACK TEMP

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARC LEVESQUE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE AND CHECK CROWN SAVER OK
1615	2000	3.75	1	RIG UP MUD TANKS AND MUD PUMPS AND FLOOR AREA
2000	2400	4.00	14	NIPPLE UP B.O.P. AND RIG UP MANIFOLD SHACK AND RELATED
2400				LINES RIG UP STEAM LINES FOR SECOND BOILER AND GET HEAT
				GOING TO MANIFOLD SHACK TARP IN SUB STRCTURE
				BOILER NUMBER TWO FIRED UP AT 1600 HRS FEB 8/2004

NOTES:

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP

EVENING TOUR FROM 1600 TO 2400 | INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	ANADARKO K-35
OPERATOR	CONTRACTOR NAME
	SHEHTAH-WILSON PARTNERSHIP
SURFACE LOCATION	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	GEORGE McDONALD

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		GM
(2.) Datafied Inspection - Weekly (Using Check List)		GM
(3.) H2S Signs Posted If Required		GM
(4.) Well Licence & Stick Diagram Posted		GM
(5.) Flare Lines Staked		GM
(6.) BOP Drills Performed		
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		GM
(1.) Rig Site Health & Safety Meeting (one/crew/month)		GM
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		GM
(3.) Mast Inspection before Raising or Lowering		GM
(4.) Crown Saver Checked		GM
(5.) Motor Kills Checked		GM

YEAR 2003 | MONTH 3 | DAY 20 | RIG NO. 4 | FUEL ON HAND (LITRES) | RIG 220 | BOILER | TEMPERATURE | CURRENT CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50	ALGOMA	L 80	48	659.62	5.60	654.02
	177.8	159.4	38.69	A S T	L-80	185	2546.56	5.60	2546.00

	DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	No. of JOINTS
		114	24.70	E	97	155	4.5XH	320
		114	62.50	HW	70	155	4.5XH	37

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8-P80	NATIONAL	216
8-P80	NATIONAL	216

SPUD DATE	2003/03/21	TIME	01:00
RIG RELEASE	2003/03/27	TIME	12:00
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		DP FUEL	
CONTRACTOR'S JOB NUM	2		
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23 DIVERTER	24	25	26
MORN	8.00																									
DAY	2.00													2.50									3.50			
EVE		1.00												7.00												
TOTAL	10.00	1.00												9.50									3.50			

TOTALS	SHALE SHAKER(S) NO. 2	TYPE F.S.I.	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
8.00	SCREENS CHANGED	YES	NEW USED	CENTRIFUGE			
8.00	TOP 165		TOP 165				
8.00	MIDDLE 165		MIDDLE 165				
24.00	BOTTOM 165		BOTTOM 165				

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH

BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

D.P. STANDS | D.P. SINGLES | KELLY DOWN | TOTAL | WT. OF D.C. | WT. OF STRING

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

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐ | TIME | DENSITY (kg/m3) | FUNNEL VISCOSITY | FLUID LOSS (cm3) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | PUMP NO. 1 SPM | PUMP NO. 2 LINER SIZE | PUMP NO. 2 SPM

REDUCED PUMP SPEED @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JIM NEILSON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	100	1.00	1	VISUALLY INSPECT & RAISE DERRICK
100	400	3.00	1	RIG UP DERRICK & FLOOR
400	800	4.00	1	RIG TO SPUD
800				

NOTES: INSPECT DERRICK PIROR TO RASING

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: RIG UP | MEHL | MACP

DRILLING CREW PAYROLL DATA — MORNING TOUR: FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH

BIT NO. | SIZE | IADC CODE | MANUFACTURER | TYPE | SERIAL NO. | JETS | DEPTH OUT (m) | DEPTH IN (m) | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

D.P. STANDS | D.P. SINGLES | KELLY DOWN | TOTAL | WT. OF D.C. | WT. OF STRING

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

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐ | TIME | DENSITY (kg/m3) | FUNNEL VISCOSITY | FLUID LOSS (cm3) | pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | PUMP NO. 1 SPM | PUMP NO. 2 LINER SIZE | PUMP NO. 2 SPM

REDUCED PUMP SPEED @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DENNIS TESSIER

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1000	2.00	1	RIG UP PIPE RACKS / PRE-FABS / DIVERTER LINES
1000	1330	3.50	23	WELD DIVERTER BOWL
1330	1600	2.50	14	NIPPLE UP DIVERTER / FLARE TANK

NOTES: CHECK BRAKE PINS & LINKAGE

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: DIVERTER | MEHL: 10 | MACP

DRILLING CREW PAYROLL DATA — DAY TOUR: FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AT END OF TOUR) BIT	O.D.	LENGTH

BIT NO. 1ARR | SIZE 311.0 | IADC CODE | MANUFACTURER SMITH | TYPE SDGH | SERIAL NO. YD1813 | JETS 15.9 15.9 15.9 | DEPTH OUT (m) | DEPTH IN (m) 0.00 | TOTAL DRILLED (m) | TOTAL HRS RUN

CUTTING STRUCTURE: Ti | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

D.P. STANDS | D.P. SINGLES | KELLY DOWN | TOTAL | WT. OF D.C. | WT. OF STRING

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

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED ☐ | TIME 2300 | DENSITY (kg/m3) 1030 | FUNNEL VISCOSITY 40 | FLUID LOSS (cm3) | pH 11.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
SODA ASH	2	
CAUSTIC	1	
GEL	41	
DETERGENT	1	

SOLIDS CONTROL

CENTRIFUGE

	HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.5	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | PUMP NO. 1 SPM | PUMP NO. 2 LINER SIZE | PUMP NO. 2 SPM

REDUCED PUMP SPEED @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JIM NEILSON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2300	7.00	14	NIPPLE UP DIVERTER (MODIFY FLOWTEE / FLARE TANK)
2300	2400	1.00	2	M/U BHA

NOTES:

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC | MEHL | MACP: 0

DRILLING CREW PAYROLL DATA — EVENING TOUR: FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

LICENCE NO.	WELL NAME & NO.
	ANADARKO K-35
OPERATOR	CONTRACTOR NAME
	SHEHTAH-WILSON PARTNERSHIP
SURFACE LOCATION	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
DALE KOZMA	GEORGE McDONALD

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) H2S Signs Posted if Required
(4) Well Licence & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (one/crew/month)
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills Checked

DP'S	R.M.
	GM
	GM
	GM
	GM
	GM
	GM
	GM
	GM
	GM

YEAR 2003 MONTH 3 DAY 21
RIG NO. 4
FUEL & DRIVING HRS
RIG 200 BOILER

TEMPERATURE
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION

	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
LAST CASING	244.5	224.4	59.50	ALGOMA	L 80	48	659.62	5.60	654.02
TUBING OR LINER	177.8	159.4	38.69	A S T	L-80	185	2546.56	5.60	2546.00

	DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DRILL STRING		114	24.70	E	97	155	4.5XH	320
		114	62.50	HW	70	155	4.5XH	37

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8-P80	NATIONAL	216
8-P80	NATIONAL	216

SPUD DATE	2003/03/21
RIG RELEASE	2003/03/27
WELL TYPE	
TIME	01:00
TIME	12:00
RE-ENTRY	
OPERATOR'S AFE	
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	2
TOUR SHEET SERIAL NUM	
VENDOR SOFTWARE VERSION	

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 MUDRING	23	24	25	26
MORN	0.50	6.75					0.25								0.25						0.25					
DAY		3.75			0.75	1.00	0.25	0.50		0.50												1.25				
EVE		3.25			0.75	3.25	0.25			0.50																
TOTAL	0.50	13.75			1.50	4.25	0.75	0.50		1.00					0.25						0.25	1.25				

TOTALS	SHALE SHAKER(S)		RENTALS / SERVICES	MORN	DAY	EVE
	NO. 2	TYPE F.S.I.	TYPE			
8.00	SCREENS CHANGED	NEW USED	CENTRIFUGE			
8.00	165 TOP	165 TOP				
8.00	165 MIDDLE	165 MIDDLE				
24.00	165 BOTTOM	165 BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY
OPERATOR | CONTRACTOR NAME
RIG MANAGER | RIG NO.
PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

MORNING TOUR

NO.	DRILLING ASSEMBLY (MORNING TOUR)		LENGTH
	BIT	O.D.	0.35
1	BIT SUB	231	1.07
9	9" DC	227	26.55
2	D.C.	170	18.15
	D.P. STANDS		
	D.P. SINGLES		14.24
	KELLY DOWN		
	TOTAL		60.36
	WT. OF D.C.	8	
	WT. OF STRING	17	

BIT RECORD

BIT NO.	1ARR	
SIZE	311.0	
IADC CODE		
MANUFACTURER	SMITH	
TYPE	SDGH	
SERIAL NO.	YD1813	
JETS	15.9	15.9
	15.9	
DEPTH OUT (m)		
DEPTH IN (m)	0.00	
TOTAL DRILLED (m)	60.00	
TOTAL HRS RUN	6.75	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED ☐

TIME	500
DENSITY (kg/m3)	
FUNNEL VISCOSITY	45
FLUID LOSS (cm3)	
pH	11.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
BICARB	4	
DETERGENT	1	

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
1000	152.0	117	140.0	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JIM NEILSON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
0.00	60.00	D	70	6

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE F/T ANNULAR CLOSE 8 SEC.
15	45	0.50	1	MAKE UP KELLY
45	100	0.25	15	PRESSURE TEST @ 1000KPA 15 MIN.
100	115	0.25	21	PRE SPUD SAFTEY MEETING
115	400	2.75	2	SPUD 311m.m. HOLE DRILL 4m. OF CEMENT
400	800	4.00	2	DRILL 311m.m. HOLE 0m.-60.m.

NOTES: CHECK BRAKE LINKAGES
TAG CEMENT @ 16.48 m.

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	PINCH POINTS	18	

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

CREW	SOC INS. NO.	NAME	HRS		YES	NO

DAY TOUR

NO.	DRILLING ASSEMBLY (AFTERNOON TOUR)		LENGTH
	BIT	O.D.	0.35
1	BIT SUB	231	1.07
9	9" DC	227	26.55
3	D.C.	170	27.07
1	JAR	173	5.06
6	D.C.	170	55.44
	D.P. STANDS		
	D.P. SINGLES		7.46
	KELLY DOWN		
	TOTAL		123.00
	WT. OF D.C.	15	
	WT. OF STRING	25	

BIT RECORD

BIT NO.	1ARR	
SIZE	311.0	
IADC CODE		
MANUFACTURER	SMITH	
TYPE	SDGH	
SERIAL NO.	YD1813	
JETS	15.9	15.9
	15.9	
DEPTH OUT (m)		
DEPTH IN (m)	0.00	
TOTAL DRILLED (m)	123.00	
TOTAL HRS RUN	10.50	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG 1-3
TORQUE AT BOTTOM 180
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED ☐ | OIL BASED ☐

TIME	800	1200	1500
DENSITY (kg/m3)	1070	1100	1100
FUNNEL VISCOSITY	37	37	38
FLUID LOSS (cm3)			
pH	11.0	12.0	12.0
P V T	35.60	28.10	40.50

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
5200	152.0	105	140.0	105

REDUCED PUMP SPEED

@ | 0 | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
68.00	0.25	
97.00	0.25	

DRILLER SIGNATURE: DENNIS TESSIER

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
60.00	123.00	D	120	4
		D	135	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	2	DRILL F/60-T/64
815	930	1.25	22	UNPLUG FLOWLINE(MUD RING)
930	1030	1.00	6	POOH(BREAK UP MUDRING)
1030	1115	0.75	5	MIX LOSS CIRCULATION SWEEP & BUILD VOLUME
1115	1245	1.50	2	DRILL F/64-T/83
1245	1300	0.25	7	RIG SERVICE
1300	1315	0.25	10	DEV. SURVEY @ 68m-1/4 DEGREE
1315	1430	1.25	2	DRILL F/83-T/111
1430	1445	0.25	10	DEV. SURVEY @ 97m-1/4 DEGREE
1445	1515	0.50	2	DRILL F/111-T/120
1515	1545	0.50	8	REPAIR RIG (CLEAN BRUSHES ON ELECTRIC MOTOR ON DRAWORKS)
1545	1600	0.25	2	DRILL F/120-T/123

NOTES: CHECK BRAKE PINS & LINKAGE
LEL LEVELS MONITORED

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	HANDLING DCs	27	

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

CREW	SOC INS. NO.	NAME	HRS		YES	NO

EVENING TOUR

NO.	DRILLING ASSEMBLY (EVENING TOUR)		LENGTH
	BIT	O.D.	0.35
1	BIT SUB	231	1.07
9	9" DC	227	26.55
3	D.C.	170	27.07
1	JAR	173	5.06
15	D.C.	170	101.65
	D.P. STANDS		
	D.P. SINGLES		13.38
	KELLY DOWN		
	TOTAL		175.13
	WT. OF D.C.	15	
	WT. OF STRING	25	

BIT RECORD

BIT NO.	1ARR		2A	
SIZE	311.0		311.0	
IADC CODE				
MANUFACTURER	SMITH		HUGHES	
TYPE	SDGH		MX-C18BDT	
SERIAL NO.	YD1813		TC3073	
JETS	15.9	15.9	14.3	14.3
	15.9		12.7	
DEPTH OUT (m)	176.00			
DEPTH IN (m)	0.00		176.00	
TOTAL DRILLED (m)	176.00			
TOTAL HRS RUN	13.75			

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED ☐

TIME	1800
DENSITY (kg/m3)	1120
FUNNEL VISCOSITY	47
FLUID LOSS (cm3)	
pH	11.0
PVT	38.80

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
SODA ASH	2	SX
CAUSTIC	2	SX
DETERGENT	1	PAILS
SAWDUST	42	SX
GEL	70	SX
BARAFOS	2	SX
BAROSEAL MEDIUM	1	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
5400	152.0	105	140.0	105

REDUCED PUMP SPEED

@ | 0 | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
125.00	0.00	

DRILLER SIGNATURE: JIM NEILSON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
123.00	175.00	D	135	8

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1645	0.75	2	DRILL F/123-T/139
1645	1700	0.25	10	DEV. SURVEY @ 125M-0 degree
1700	1715	0.25	7	RIG SERVICE
1715	1915	2.00	2	DRILL F/139-T/ 167m.
1915	1930	0.25	10	DEV. SURVEY @ 153m. DEG. 3/4
1930	2000	0.50	2	DRILL FR. 167m.-175m.
2000	2045	0.75	5	COND MUD & CIRC
2045	2400	3.25	6	POOH
2400				

NOTES: CHECK BRAKE LINKAGES

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	TIGHT HOLE	35	

RATE SCHEDULE | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS | DRIVERS

CREW	SOC INS. NO.	NAME	HRS		YES	NO

LICENCE NO.	WELL NAME & NO.
	ANADARKO K-35
OPERATOR	CONTRACTOR NAME
	SHEHTAH-WILSON PARTNERSHIP
SURFACE LOCATION	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	GEORGE McDONALD

DAILY CHECKS

	QPR	R.M.
(1) Daily Walk Around Inspection		GM
(2) Detailed Inspection - Weekly (Using Check List)		GM
(3) H2S Signs Posted If Required		GM
(4) Well Licence & Stick Diagram Posted		GM
(5) Flare Lines Slatted		
(6) BOP Drills Performed		GM
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines		GM
(1) Rig Site Health & Safety Meeting (one/crew/month)		GM
(2) CAODC Rig Safet Inspection Chacklist (one/rig/month)		GM
(3) Mast Inspection before Raising or Lowering		
(4) Crown Saver Checked		GM
(5) Motor Kills Checked		

YEAR 2003 | MONTH 3 | DAY 22

RIG NO. 4

FUEL & CONSUMED

RIG	BOILER
173	

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50	ALGOMA	L 80	48	659.62	5.60	654.02
	177.8	159.4	38.69	A S T	L-80	185	2546.56	5.60	2546.00

OC / DP	SIZE	MASS	GRADE	MINIMUM I.D.	T.JNT. O.D.	TYPE THREAD	NO. of JOINTS
	114	24.70	E	97	155	4.5XH	320
	114	62.50	HW	70	155	4.5XH	37

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8-P80	NATIONAL	216
8-P80	NATIONAL	216

SPUD DATE	2003/03/21	TIME	01:00
RIG RELEASE	2003/03/27	TIME	12:00
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	2		
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26
MORN		2.75	1.25			3.50	0.25			0.25																
DAY		6.75					0.25			1.00																
EVE		6.75					0.25			1.00																
TOTAL		16.25	1.25			3.50	0.75			2.25																

TOTALS	SHALE SHAKER(S)		RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. 2	TYPE F.S.I.				
8.00	SCREENS CHANGED	NO	NEW? USED	CENTRIFUGE	8	8	8
8.00	TOP 165	TOP 165		HEAVYWATE DRILL PIPE	8	8	8
8.00	MIDDLE 165	MIDDLE 165					
24.00	BOTTOM 165	BOTTOM 165					

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP YES NO | RIG SAFETY DAYS

MORNING TOUR

DRILLING ASSEMBLY

NO.	BIT	O.D.	LENGTH
1	BIT	0.35	
1	SQUARE MUD MOTOR	8.52	
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
2	H.W.D.P.	156	18.93
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		12.57
	TOTAL		211.34
	WT. OF D.C.	15	
	WT. OF STRING	39	

BIT RECORD

BIT NO.	2A	
SIZE	311.0	
IADC CODE		
MANUFACTURER	HUGHES	
TYPE	MX-C18BDT	
SERIAL NO.	TC3073	
JETS	14.3	14.3
	12.7	
DEPTH OUT (m)		
DEPTH IN (m)	175.00	
TOTAL DRILLED (m)	36.00	
TOTAL HRS RUN	2.75	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED

TIME	300	630
DENSITY (kg/m3)	1060	1070
FUNNEL VISCOSITY	40	44
FLUID LOSS (cm3)		
pH	10.5	10.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	26	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1		2
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
175.00	211.00	D	80	9

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
6600	152.0	105	140.0	105

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
180.00	0.50	

DRILLER SIGNATURE

JIM NEILSON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE
15	45	0.50	6	MAKE UP SQUARE MUD MOTOR
45	345	3.00	6	RUN IN HOLE
345	500	1.25	3	REAM 28 m. TO BOTTOM
500	645	1.75	2	DRILL 311m.m. HOLE 175m.- 192m.
645	700	0.25	10	DEV. SURVEY @ 180m.
700	800	1.00	2	DRILL FR.- 192m.- 211m.
800				

NOTES: CHECK BRAKE LINKAGES

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEH.	MACP
REAMING	45	

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

DAY TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
1	BIT	0.35	
1	SQUARE MUD MOTOR	237	8.52
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
1	D.P.	STANDS	28.36
2	D.P.	SINGLES	18.49
	KELLY DOWN		12.57
	TOTAL		323.75
	WT. OF D.C.	15	
	WT. OF STRING	43	

BIT RECORD

BIT NO.	2A	
SIZE	311.0	
IADC CODE		
MANUFACTURER	HUGHES	
TYPE	MX-C18BDT	
SERIAL NO.	TC3073	
JETS	14.3	14.3
	12.7	
DEPTH OUT (m)		
DEPTH IN (m)	175.00	
TOTAL DRILLED (m)	148.00	
TOTAL HRS RUN	9.50	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG 2-4

TORQUE AT BOTTOM 200

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED

TIME	800	1000	1500
DENSITY (kg/m3)	1070	1085	1100
FUNNEL VISCOSITY	47	51	63
FLUID LOSS (cm3)			8.0
pH	10.0	10.0	10.0
P V T	39.20	39.80	41.20

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	30	SX
HUMALITE	2	SX
PAC R	1	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	1100	1080	1880

BOILERS

	1		2
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
211.00	313.00	D	80	8
313.00	323.00	D	80	10

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
7800	152.0	105	152.0	105

REDUCED PUMP SPEED

@ | 0 | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
207.00	0.75	
235.00	0.75	
264.00	0.25	
292.00	0.25	

DRILLER SIGNATURE

DENNIS TESSIER

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE
815	830	0.25	2	DRILL F/211-T/220
830	845	0.25	10	DEV. SURVEY @ 207m-3/4 DEGREE
845	1015	1.50	2	DRILL F/220-T/248
1015	1030	0.25	10	DEV. SURVEY @ 235m-3/4 DEGREE
1030	1230	2.00	2	DRILL F/248-T/276
1230	1245	0.25	10	DEV. SURVEY @ 264m-1/4 DEGREE
1245	1415	1.50	2	DRILL F/276-T/305
1415	1430	0.25	10	DEV. SURVEY @ 292m-1/4 DEGREE
1430	1600	1.50	2	DRILL F/305-T/323

NOTES: CHECK BRAKE PINS & LINKAGE

LEL LEVELS MONITORED

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEH.	MACP
CREW TRUCK	46	

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

EVENING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	BIT	O.D.	LENGTH
1	BIT	0.35	
1	SQUARE MUD MOTOR	237	8.52
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
5	D.P.	STANDS	140.17
	D.P.	SINGLES	
	KELLY DOWN		12.57
	TOTAL		417.07
	WT. OF D.C.	15	
	WT. OF STRING	45	

BIT RECORD

BIT NO.	2A	
SIZE	311.0	
IADC CODE		
MANUFACTURER	HUGHES	
TYPE	MX-C18BDT	
SERIAL NO.	TC3073	
JETS	14.3	14.3
	12.7	
DEPTH OUT (m)		
DEPTH IN (m)	175.00	
TOTAL DRILLED (m)	242.00	
TOTAL HRS RUN	16.25	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG 2-4

TORQUE AT BOTTOM 200

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED

TIME	1830	2300	
DENSITY (kg/m3)	1100	1110	
FUNNEL VISCOSITY	56	67	
FLUID LOSS (cm3)	8.0	8.0	
pH	10.0	8.5	
P V T	41.30	40.90	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
HUMALITE	3	SX
GEL	15	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	1100	1090	1730

BOILERS

	1		2
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
323.00	417.00	D	80	10

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
8280	152.0	105	152.0	105

REDUCED PUMP SPEED

@ | 0 | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
320.00	0.25	
347.00	1.00	
375.00	0.50	
403.00	1.00	

DRILLER SIGNATURE

JIM NEILSON

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE
1615	1645	0.50	2	DRILL F/323-T/333
1645	1700	0.25	10	DEV. SURVEY @ 320m-1/4 DEGREE
1700	1830	1.50	2	DRILL F/333-T/360
1830	1845	0.25	10	DEV. SURVEY @ 347m. 1.0 DEGREE
1845	2100	2.25	2	DRILL F/360-T/ 388m.
2100	2115	0.25	10	DEV. SURVEY @ 375m. DEG. 1/2
2115	2345	2.50	2	DRILL FR.388m.-417m.
2345	2400	0.25	10	DEV. SURVEY 403m. DEG. 1.0

NOTES: CHECK BRAKE PINS & LINKAGE

CHECK OIL LEVEL IN ACCUM.

FT CROWN SAVER

SPECIAL EVENT | TIME / DEPTH

SAFETY TOPIC	MEH.	MACP
STEAM	58	

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

LICENCE NO.	WELL NAME & NO.
1991	ANADARKO ARROWHEAD RIVER K-35

OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	SHEHTAH-WILSON PARTNERSHIP

SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20 W	300K356040122450

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
DALE KOZMA	GEORGE McDONALD

DAILY CHECKS

	DPS	R.M.
(1) Daily Walk Around Inspection		GM
(2) Detailed Inspection - Weekly (Using Check List)		GM
(3) H2S Signs Posted if Required		GM
(4) Well Licence & Stick Diagram Posted		GM
(5) Flare Lines Staked		
(6) BOP Drills Performed		
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines		GM
(1) Rig Site Health & Safety Meeting (one/crew/month)		GM
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)		GM
(3) Meet Inspection before Raising or Lowering		GM
(4) Crown Saver Checked		
(5) Motor Kills Checked		

YEAR 2003 MONTH 3 DAY 23
RIG NO. 4
FUEL 2 @ 0 HRS
RIG 133 BOILER
TEMPERATURE
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	224.4	59.50	ALGOMA	L 80	48	659.62	5.60	654.02
	177.8	159.4	38.69	A S T	L-80	185	2546.56	5.60	2546.00

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DC	114	24.70	E	97	155	4.5XH	320	8-P80	NATIONAL	216
DP	114	62.50	HW	70	155	4.5XH	37	8-P80	NATIONAL	216

SPUD DATE	2003/03/21	TIME	01:00
RIG RELEASE	2003/03/27	TIME	12:00
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	2		
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

CODE NO.	1 R/UP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26
MORN		7.25					0.25			0.50																
DAY		0.50			0.25	7.00	0.25																			
EVE		1.50	2.25			4.00	0.25																			
TOTAL		9.25	2.25		0.25	11.00	0.75			0.50																

TOTALS	SHALE SHAKER(S): NO. 2	TYPE F.S.I.	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
8.00	SCREENS CHANGED		NEW USED	CENTRIFUGE	8	8	8
8.00	TOP 165	MIDDLE	TOP 165 MIDDLE	HEAVYWATE DRILL PIPE	8	8	8
8.00	165		165				
24.00	BOTTOM 165		BOTTOM 165				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.		YEAR	MONTH	DAY
OPERATOR	CONTRACTOR NAME			
RIG MANAGER		RIG NO.		
PROVINCE	CAMP YES NO	RIG SAFETY DAYS		

MORNING TOUR

NO.	DRILLING ASSEMBLY AT START OF TOUR: BIT	O.D.	LENGTH
1	SQUARE MUD MOTOR	237	8.52
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
7	D.P. STANDS		197.16
1	D.P. SINGLES		9.23
	KELLY DOWN		8.28
	TOTAL		479.00
	WT. OF D.C.	15	
	WT. OF STRING	48	

BIT RECORD

BIT NO.	2A	
SIZE	311.0	
IADC CODE		
MANUFACTURER	HUGHES	
TYPE	MX-C18BDT	
SERIAL NO.	TC3073	
JETS	14.3	14.3
	12.7	
DEPTH OUT (m)		
DEPTH IN (m)	175.00	
TOTAL DRILLED (m)	304.00	
TOTAL HRS RUN	23.50	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	2-7
TORQUE AT BOTTOM	200
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED	
TIME		300	600	
DENSITY (kg/m3)		1110	1110	
FUNNEL VISCOSITY		55	61	
FLUID LOSS (cm3)		8.5	8.5	
pH		9.0	9.0	
		41.60	41.60	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAUSTIC	1	SX
GEL	15	SX
HUMALITE	2	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
	1110	1100	1730

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9100	152.0	105	152.0	105

REDUCED PUMP SPEED

@		@	

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
431.00	1.12	
461.00	1.00	

DRILLER SIGNATURE

JIM NEILSON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
417.00	479.00	D	75	11

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE
15	315	3.00	2	DRILL FR. 417M- 444m.
315	330	0.25	10	DEV. SURVEY @ 403m. DEG. 1 1/8
330	715	3.75	2	DRILL FR. 444m.-474m.
715	730	0.25	10	DEV. SURVEY @ 461m. DEG. 1.0
730	800	0.50	2	DRILL FR.474m.- 479m.
800				

NOTES: CHECK BRAKE LINKAGES
CHANGED 1 80 SHAKER SCREEN

SPECIAL EVENT		SAFETY TOPIC	MEH.	MACP
TIME / DEPTH		WINCH LINES	50	

RATE SCHEDULE		REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR: BIT	O.D.	LENGTH
1	SQUARE MUD MOTOR	237	8.52
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
7	D.P. STANDS		197.16
1	D.P. SINGLES		9.23
	KELLY DOWN		12.57
	TOTAL		483.29
	WT. OF D.C.	15	
	WT. OF STRING	48	

BIT RECORD

BIT NO.	2A	
SIZE	311.0	
IADC CODE		
MANUFACTURER	HUGHES	
TYPE	MX-C18BDT	
SERIAL NO.	TC3073	
JETS	14.3	14.3
	12.7	
DEPTH OUT (m)		
DEPTH IN (m)	175.00	
TOTAL DRILLED (m)	308.00	
TOTAL HRS RUN	24.00	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	3-15
TORQUE AT BOTTOM	205
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED	
TIME	830	1130	1530	
DENSITY (kg/m3)	1115	1115	1130	
FUNNEL VISCOSITY	68	64	68	
FLUID LOSS (cm3)	8.5	8.5	8.5	
pH	10.0	10.0	10.0	
P V T	41.50	41.20		

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
8400	152.0	100	152.0	100

REDUCED PUMP SPEED

@	0	@	

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

DENNIS TESSIER

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
479.00	483.00	D	70	12

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	830	0.50	2	DRILL FM79-TM83
830	845	0.25	7	RIG SERVICE
845	900	0.25	5	CIRCULATE HOLE CLEAN
900	1600	7.00	6	WIPER TRIP(PULL TIGHT AFTER 6 SINGLES,PUMP OUT OF HOLE)
1600				

NOTES: check brake pins & linkage
LEL LEVELS MONITORED

SPECIAL EVENT		SAFETY TOPIC	MEH.	MACP
TIME / DEPTH		TRIPPING	70	

RATE SCHEDULE		REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR: BIT	O.D.	LENGTH
1	SQUARE MUD MOTOR	237	8.52
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
8	D.P. STANDS		225.25
	D.P. SINGLES		12.57
	KELLY DOWN		502.15
	TOTAL		
	WT. OF D.C.	15	
	WT. OF STRING	48	

BIT RECORD

BIT NO.	2A	3A	
SIZE	311.0	311.0	
IADC CODE		1 3 5	
MANUFACTURER	HUGHES	SMITH	
TYPE	MX-C18BDT	SDGH	
SERIAL NO.	TC3073	YD 9033	
JETS	14.3	14.3	15.9 15.9
	12.7		15.9
DEPTH OUT (m)	483.00		
DEPTH IN (m)	175.00	483.00	
TOTAL DRILLED (m)	308.00	19.00	
TOTAL HRS RUN	24.00	1.50	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	2-5
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	200.00

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED	
TIME		1100		
DENSITY (kg/m3)		1120		
FUNNEL VISCOSITY		57		
FLUID LOSS (cm3)		8.5		
pH		9.0		

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	1120	1110	1720

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa

	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9500	152.0	105	100.0	105

REDUCED PUMP SPEED

@	0	@	

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

JIM NEILSON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
483.00	502.00	D	80	11

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1800	2.00	6	POOH (WIPER TRIP)
1800	1815	0.25	7	RIG SERVICE
1815	2015	2.00	6	CHANGE BIT & RIH
2015	2230	2.25	3	REAMING FR.291m. TO BOTTOM
2230	2400	1.50	2	DRILL FR 483m.- 502m.

NOTES: CHECK BRAKE LINKAGES

SPECIAL EVENT		SAFETY TOPIC	MEH.	MACP
TIME / DEPTH		REAMING	50	

RATE SCHEDULE		REGULAR		REPAIR		INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

LICENCE NO.	WELL NAME & NO.
1991	ANADARKO ARROWHEAD RIVER K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	SHEHTAH-WILSON PARTNERSHIP
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20 W	300K356040122450
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
DALE KOZMA	BOB ROGERS

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		BR
(2.) Detailed Inspection - Weekly (Using Check List)		BR
(3.) H2S Signs Posted if Required		BR
(4.) Well Licence & Blick Diagram Posted		BR
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		BR
(7.) Visually Inspect BOPs: Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		BR
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		BR
(3.) Mast Inspection before Raising or Lowering		BR
(4.) Crown Saver Checked		BR
(5.) Motor Checked		BR

YEAR 2003 MONTH 3 DAY 24 | RIG NO. 4 | FUEL @ 24:00 HRS | RIG | BOILER | TEMPERATURE | CURRENT CONDITIONS | WIND DIRECTION | ROAD CONDITION

LAST CASING, TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

DC / DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
114	24.70	E	97	155	4.5XH	320	
114	62.50	HW	70	155	4.5XH	37	

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8-P80	NATIONAL	216
8-P80	NATIONAL	216

SPUD DATE	2003/03/21	TIME	01:00
RIG RELEASE	2003/03/27	TIME	12:00
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG.		OP FUEL	
CONTRACTOR'S JOB NUM	2		
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

CAODC

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26
MORN		7.00					0.25			0.75																
DAY		6.00					0.25	1.00		0.75																
EVE		1.00			0.50	5.50	0.25	0.50		0.25																
TOTAL		14.00			0.50	5.50	0.75	1.50		1.75																

TOTALS	SHALE SHAKER(S) NO.	TYPE	SCREENS CHANGED	TYPE NEW / USED	RENTALS / SERVICES	MORN	DAY	EVE
8.00	1	F.S.I.			CENTRIFUGE	8	8	8
8.00	TOP 165	TOP 165			HEAVYWATE DRILL PIPE	8	8	8
8.00	MIDDLE 165	MIDDLE 165						
24.00	BOTTOM 165	BOTTOM 165						

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS

BIT RECORD

NO.	DRILLING ASSEMBLY (END OF TOUR) BIT	O.D.	LENGTH
1	BIT		0.35
1	SQUARE MUD MOTOR	237	8.52
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
10	D.P. STANDS		281.40
1	D.P. SINGLES		9.24
	KELLY DOWN		12.57
	TOTAL		567.54
	WT. OF D.C.	15	
	WT. OF STRING	49	

BIT RECORD	
BIT NO.	3A
SIZE	311.0
IADC CODE	1 3 5
MANUFACTURER	SMITH
TYPE	SDGH
SERIAL NO.	YD 9033
JETS	15.9 15.9 15.9
DEPTH OUT (m)	
DEPTH IN (m)	483.00
TOTAL DRILLED (m)	84.00
TOTAL HRS RUN	8.50

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION	
HOLE DRAG	2-5
TORQUE AT BOTTOM	200
FILL ON BOTTOM (m)	

MORNING TOUR — MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED ☐

TIME	200	600
DENSITY (kg/m3)	1120	1120
FUNNEL VISCOSITY	63	69
FLUID LOSS (cm3)	8.5	8.0
pH	9.0	8.5
	42.10	40.60

MUD MATERIALS ADDED	PRODUCT	AMOUNT	UNIT
	GEL	15	SX
	HUMALITE	1	SX
	CAUSTIC	1	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	1120	1110	1780

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9900	152.0	105	100.0	105

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
488.00	1.00	
516.00	1.00	
545.00	1.25	

DRILLER SIGNATURE: JIM NEILSON

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
502.00	567.00	D	75	11

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE
15	30	0.25	10	DEV. SURVEY @488m. DEG. 1.0
30	315	2.75	2	DRILL FR. 502m.-529m.
315	330	0.25	10	DEV. SURVEY @ 516m. DEG. 1.0
330	645	3.25	2	DRILL FR. 529m.- 558m.
645	700	0.25	10	DEV. SURVEY @ 545m. DEG.1.25
700	800	1.00	2	DRILL FR. 558m.-567m
800				

NOTES: CHECK BRAKE LINKAGES

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
	LIFTING PROPER	50	

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR — CREW

FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

DAY TOUR — BIT RECORD

NO.	DRILLING ASSEMBLY (END OF TOUR) BIT	O.D.	LENGTH
1	BIT		0.35
1	SQUARE MUD MOTOR	237	8.52
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
12	D.P. STANDS		337.60
2	D.P. SINGLES		19.19
	KELLY DOWN		12.27
	TOTAL		633.39
	WT. OF D.C.	15	
	WT. OF STRING	49	

BIT RECORD	
BIT NO.	3A
SIZE	311.0
IADC CODE	1 3 5
MANUFACTURER	SMITH
TYPE	SDGH
SERIAL NO.	YD 9033
JETS	15.9 15.9 15.9
DEPTH OUT (m)	633.00
DEPTH IN (m)	483.00
TOTAL DRILLED (m)	150.00
TOTAL HRS RUN	8.50

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION	
HOLE DRAG	2-5
TORQUE AT BOTTOM	175
FILL ON BOTTOM (m)	

DAY TOUR — MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED ☐

TIME	800	1030
DENSITY (kg/m3)	1130	1135
FUNNEL VISCOSITY	78	73
FLUID LOSS (cm3)	6.5	6.5
pH	10.0	10.0
PVT	40.80	40.20

MUD MATERIALS ADDED	PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9100	152.0	105	152.0	105

REDUCED PUMP SPEED: @ 0 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
573.00	1.00	
601.00	1.12	

DRILLER SIGNATURE: DENNIS TESSIER

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
567.00	633.00	D	80	12

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE
815	1015	2.00	2	DRILL F/567-T/585
1015	1045	0.50	10	DEV. SURVEY @ 573m-1 DEGREE
1045	1115	0.50	2	DRILL F/585-T/592
1115	1145	0.50	8	REPAIR RIG(WORK ON SCR)
1145	1330	1.75	2	DRILL F/592-T/614
1330	1345	0.25	10	DEV. SURVEY @ 601m-1 1/8 DEGREE
1345	1530	1.75	2	DRILL F/614-T/ 633
1530	1600	0.50	8	REPAIR RIG (WORK ON SCR)
1600				

NOTES: CHECK BRAKE PINS & LINKAGE
LEL LEVELS MONITORED

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
	HOUSEKEEPING	52	

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR — CREW

FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

EVENING TOUR — BIT RECORD

NO.	DRILLING ASSEMBLY (END OF TOUR) BIT	O.D.	LENGTH
1	BIT		0.35
1	SQUARE MUD MOTOR	237	8.52
3	9" DC	227	26.55
1	X.O.	223	0.86
3	D.C.	170	27.07
1	JAR	173	5.06
12	D.C.	170	110.62
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
13	D.P. STANDS		366.41
	D.P. SINGLES		
	KELLY DOWN		12.27
	TOTAL		643.01
	WT. OF D.C.	15	
	WT. OF STRING	49	

BIT RECORD	
BIT NO.	3A
SIZE	311.0
IADC CODE	1 3 5
MANUFACTURER	SMITH
TYPE	SDGH
SERIAL NO.	YD 9033
JETS	15.9 15.9 15.9
DEPTH OUT (m)	
DEPTH IN (m)	483.00
TOTAL DRILLED (m)	160.00
TOTAL HRS RUN	9.25

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION	
HOLE DRAG	1-20
TORQUE AT BOTTOM	180
FILL ON BOTTOM (m)	0.00

EVENING TOUR — MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED ☐

TIME	1700	2100	2300
DENSITY (kg/m3)	1140	1140	1140
FUNNEL VISCOSITY	75	75	75
FLUID LOSS (cm3)	6.0	6.0	6.0
pH	9.0	9.0	9.0

MUD MATERIALS ADDED	PRODUCT	AMOUNT	UNIT
	GEL	5	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8.00	1140	1135	1880

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
10500	152.0	105	152.0	105

REDUCED PUMP SPEED: @ 0 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: BRAD BRAITHWAITE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE
1615	1630	0.25	2	DRILLF/ 633 - T/637
1630	1700	0.50	8	REPAIR RIG (WORK ON SCR)
1700	1745	0.75	2	DRILLF/ 637-T/ 643
1745	1815	0.50	5	CIRC. HOLE CLEAN
1815	1830	0.25	10	DEV. SURVEY@ 631 m
1830	2400	5.50	6	POOH LAY DOWN MUD MOTOR AND STRAP OUT

NOTES:

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MEHL	MACP
		76	

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR — CREW

FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

LICENCE NO.	WELL NAME & NO.
1991	ANADARKO ARROWHEAD RIVER K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	SHEHTAH-WILSON PARTNERSHIP
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20 W	300K356040122450
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
DALE KOZMA	BOB ROGERS

DAILY CHECKS

	DP/R	M.
(1.) Daily Walk Around Inspection	OK	BR
(2.) Detailed Inspection - Weekly (Using Check List)		BR
(3.) H2S Signs Posted if Required	OK	BR
(4.) Well Licence & Slick Diagram Posted	OK	BR
(5.) Flare Lines Staked		
(6.) BOP Drills Performed	OK	BR
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	OK	BR
(1.) Rig Site Health & Safety Meeting (one/crew/month)		BR
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		BR
(3.) Mast Inspection before Raising or Lowering		BR
(4.) Crown Saver Checked		BR
(5.) Motor Kills Checked		BR

YEAR 2003 MONTH 3 DAY 25 — RIG NO. 4 — FUEL ON HAND HRS: RIG BOILER

TEMPERATURE — CURRENT CONDITIONS — WIND DIRECTION — ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m2)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	220.4	59.50	ALGOMA	L80	50	652.87	6.30	652.00

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	114	24.70	E	97	155	4.5XH	320	8-P80	NATIONAL	216
	114	62.50	HW	70	155	4.5XH	37	8-P80	NATIONAL	216

SPUD DATE	2003/03/21 TIME 01:00
RIG RELEASE	2003/03/27 TIME 12:00
WELL TYPE	RE-ENTRY
OPERATOR'S AFE	
KELLY BSHG	OP FUEL
CONTRACTOR'S JOB NUM	2
TOUR SHEET SERIAL NUM	
VENDOR SOFTWARE VERSION	

CAODC — PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22 BREAK MOTOR & DC & LAY OT	23	24	25	26	TOTALS
MORN						4.75	0.25															3.00					8.00
DAY		1.50			1.00	4.25	0.25														0.25	0.75					8.00
EVE					1.00	0.50	0.25					5.75									0.50							8.00
TOTAL		1.50			2.00	9.50	0.75					5.75									0.75	3.75					24.00

SHALE SHAKER(S): NO. 2 — TYPE F.S.I. — SCREENS CHANGED — NEW SCREENS USED

RENTALS / SERVICES

	MORN	DAY	EVE
CENTRIFUGE	8	8	8
HEAVYWATE DRILL PIPE TOP 165 MIDDLE 165 BOTTOM 165	8	8	8

DRILLING CREW PAYROLL DATA

WELL NAME & NO — YEAR — MONTH — DAY

OPERATOR — CONTRACTOR NAME

RIG MANAGER — RIG NO.

PROVINCE — CAMP YES NO — RIG SAFETY DAYS

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR: BIT	O.D.	LENGTH
1			0.35
1	BIT SUB		1.07
2	D.C.	231	17.99
1	X.O.		0.86
6	D.C.	170	54.92
1	JAR		5.06
9	D.C.	170	82.77
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
	D.P. STANDS		
	D.P. SINGLES		
	KELLY DOWN		
	TOTAL		248.32
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	3RR
SIZE	311.0
IADC CODE	1 3 5
MANUFACTURER	SMITH
TYPE	SDGH
SERIAL NO.	YD9033
JETS	3 X / 15.9
DEPTH OUT (m)	
DEPTH IN (m)	483.00
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	3-25
TORQUE AT BOTTOM	175
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED	X	OIL BASED	
TIME					
DENSITY (kg/m3)					
FUNNEL VISCOSITY					
FLUID LOSS (cm3)					
pH					

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DENNIS TESSIER

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE
15	330	3.25	6	POOH (STRAP OUT)
330	630	3.00	22	BREAK MOTOR & 9" DC,LAY BOTH OUT(THREADS SCREWED)
630	800	1.50	6	MAKE UP BIT & BIT SUB & RIH

NOTES: CHECK BRAKE PINS & LINKAGE
FT CROWN SAVER
TALLY-643.01 STRAP-643.17 DIFF.- 16m

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	TIGHT HOLE	72	

RATE SCHEDULE — REGULAR — REPAIR — INVERT

CREW SAFETY DAYS — DRIVERS

MORNING TOUR FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR: BIT	O.D.	LENGTH
1			0.35
1	BIT SUB		1.07
2	D.C.	231	17.99
1	X.O.		0.86
6	D.C.	170	54.92
1	JAR		5.06
9	D.C.	170	82.77
1	X.O.	166	0.81
9	H.W.D.P.	156	84.49
14	D.P. STANDS		394.55
	D.P. SINGLES		
	KELLY DOWN		9.64
	TOTAL		652.51
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	3RR
SIZE	311.0
IADC CODE	1 3 5
MANUFACTURER	SMITH
TYPE	SDGH
SERIAL NO.	YD9033
JETS	3 X / 15.9
DEPTH OUT (m)	652.00
DEPTH IN (m)	483.00
TOTAL DRILLED (m)	169.00
TOTAL HRS RUN	10.75

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	180
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED	X	OIL BASED	
TIME	1000				
DENSITY (kg/m3)	1155				
FUNNEL VISCOSITY	81				
FLUID LOSS (cm3)	6.5				
pH	9.0				

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	11.0	BOILER pH	
STACK TEMP	355	STACK TEMP	

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9500	152.0	105	152.0	105

REDUCED PUMP SPEED: @ 0 @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: BRAD BRAITHWAITE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
643.00	652.00	D	120	12

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE
815	930	1.25	6	RIH
930	1000	0.50	5	WASH TO BTM
1000	1130	1.50	2	DRILL F/ 643-T/ 652
1130	1200	0.50	5	CIRC HOLE CLEAN
1200	1330	1.50	6	POOH STAND DRILL PIPE AND HEVI WEIGHT
1330	1345	0.25	21	SAFETY MTG. WITH LAYDOWN TRUCK
1345	1515	1.50	6	LAY DOWN DC'S
1515	1600	0.75	22	RIG UP LAY DOWN TRUCK AND TONG HAND
1600				

NOTES:

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		52	0

RATE SCHEDULE — REGULAR — REPAIR — INVERT

CREW SAFETY DAYS — DRIVERS

DAY TOUR FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR: BIT	O.D.	LENGTH
	D.P. STANDS		
	D.P. SINGLES		
	KELLY DOWN		
	TOTAL		
	WT. OF D.C.		
	WT. OF STRING		

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED	X	OIL BASED	
TIME					
DENSITY (kg/m3)					
FUNNEL VISCOSITY					
FLUID LOSS (cm3)					
pH					

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
	152.0		152.0	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: DENNIS TESSIER

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE
1615	1630	0.25	21	SAFETY MTG. WITH TONG HAND
1630	1930	3.00	12	RUN CASING
1930	1945	0.25	21	SAFETY MTG.
1945	2230	2.75	12	RUN CASING
2230	2330	1.00	5	CIRCULATE CASING
2330	2400	0.50	6	RIC W/DP

NOTES: CHECK BRAKE PINS & LINKAGE
LEL LEVELS MONITORED

SPECIAL EVENT	SAFETY TOPIC	MEHL	MACP
TIME / DEPTH	RUNNING CASING	50	

RATE SCHEDULE — REGULAR — REPAIR — INVERT

CREW SAFETY DAYS — DRIVERS

EVENING TOUR FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

LICENCE NO.	WELL NAME & NO.
1991	ANADARKO ARROWHEAD RIVER K-35
OPERATOR	**CONTRACTOR NAME**
ANADARKO CANADA CORP.	SHEHTAH-WILSON PARTNERSHIP
SURFACE LOCATION	**UNIQUE ID**
60:34:38.10 N 122:51:47.20 W	300K356040122450
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**
DALE KOZMA	BOB ROGERS

DAILY CHECKS

	OPR	RLM
(1.) Daily Walk Around Inspection		BR
(2.) Detailed Inspection - Weekly (Using Check List)		BR
(3.) H2S Signs Posted if Required		BR
(4.) Well Licence & Stick Diagram Posted		
(5.) Flare Lines Staked		
(6.) BOP Drills Performed		BR
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines		
(1.) Rig Site Health & Safety Meeting (one/crew/month)		BR
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		BR
(3.) Mast Inspection before Raising or Lowering		BR
(4.) Crown Saver Checked		BR
(5.) Motor Kills Checked		BR

YEAR 2003 | MONTH 3 | DAY 26

RIG NO. 4

FUEL ON HAND

RIG 134 | BOILER

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	220.4	59.50	ALGOMA	L80	50	652.87	6.30	652.00

DC / DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
	114	24.70	E	97	155	4.5XH	320
	114	62.50	HW	70	155	4.5XH	37

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8-P80	NATIONAL	216
8-P80	NATIONAL	216

SPUD DATE	2003/03/21	TIME	01:00
RIG RELEASE	2003/03/27	TIME	12:00
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE			
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	2		
TOUR SHEET SERIAL NUM			
VENDOR SOFTWARE VERSION			

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DR. WORK	21 SAFETY MEETING	22 PACK OFF	23 Static/ Down Time	24 COND CASING & WELD L	25	26	TOTALS
MORN					1.75	3.00						1.50									0.25	1.50					8.00
DAY					1.00	3.75	0.25							1.75							0.25	0.50	0.50				8.00
EVE														1.50										6.50			8.00
TOTAL					2.75	6.75	0.25					1.50		3.25							0.50	2.00	0.50	6.50			24.00

SHALE SHAKER(S)	RENTALS / SERVICES	MORN	DAY	EVE
NO. 2	TYPE F.S.L.			
SCREENS CHANGED	NEW USED			
TOP 165	TOP 165	CENTRIFUGE	8	8	8
MIDDLE 165	MIDDLE 165	HEAVYWATE DRILL PIPE	8	8	8
BOTTOM 165	BOTTOM 165				

DRILLING CREW PAYROLL DATA

WELL NAME & NO. | YEAR | MONTH | DAY

OPERATOR | CONTRACTOR NAME

RIG MANAGER | RIG NO.

PROVINCE | CAMP YES NO | RIG SAFETY DAYS

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		LENGTH
	BIT	O.D.
	D.P. STANDS	
	D.P. SINGLES	
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE | WATER BASED X | OIL BASED

TIME	
DENSITY (kg/m3)	
FUNNEL VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DESCO	4	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
152.0		152.0	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

DENNIS TESSIER

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	130	1.50	6	PICK UP DRILL PIPE
130	300	1.50	6	RUN IN W/STANDS
300	430	1.50	22	MAKE UP PACK OFF TOOL
430	545	1.25	5	CIRCULATE
545	600	0.25	21	SAFETY MTG.
600	730	1.50	12	CEMENT CASING
730	800	0.50	5	CIRCULATE W/INHIBITED WATER
800				CEMENT SURFACE CASING FROM 652 M TO SURFACE WITH 29.5 TONNE
				39 M3 OF 0:1:0 "G" YIELD 0.757 M3/T DENSITY 1901 KG/M3
				WATER 0.44 M3/T HAD 6 M3 OF GOOD CEMENT RETURNS, USED
				IMPORT TOOL PACK-OFF HEAD FOR CEMENT JOB, BUMPED PLUG, FLOAT
				HELD OK.

NOTES : CHECK BRAKE PINS & LINKAGE

SPECIAL EVENT		SAFETY TOPIC	MEH.	MACP
TIME / DEPTH		CEMENTING	71	

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

MORNING TOUR FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		LENGTH
	BIT	O.D.
	D.P. STANDS	
	D.P. SINGLES	
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	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 VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	11.0	BOILER pH	
STACK TEMP	360	STACK TEMP	

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
152.0		152.0	

REDUCED PUMP SPEED

@ | 0 | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

BRAD BRAITHWAITE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE
815	915	1.00	5	CIRC INHIBITED WATER
915	945	0.50	22	REMOVE PACK OFF TOOL
945	1000	0.25	21	SAFETY MEETIMG WITH LAY DOWN TRUCK
1000	1345	3.75	6	LAY DOWN DRILL PIPE
1345	1415	0.50	23	RIG OUT LAY DOWN TRUCK
1415	1600	1.75	14	TEAR OUT DIVERTER

NOTES : CHECKED BRAKE LINKAGES

SPECIAL EVENT		SAFETY TOPIC	MEH.	MACP
TIME / DEPTH		LAY DOWN PIPE	27	0

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

DAY TOUR FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		LENGTH
	BIT	O.D.
	D.P. STANDS	
	D.P. SINGLES	
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD

BIT NO.	
SIZE	
IADC CODE	
MANUFACTURER	
TYPE	
SERIAL NO.	
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	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 VISCOSITY	
FLUID LOSS (cm3)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
152.0		152.0	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

DENNIS TESSIER

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1730	1.50	14	TEAR OUT DIVERTER
1730	2400	6.50	24	CUT CASING AND CONDUCTOR WELD ON BOWL

NOTES : CHECK BRAKE PINS & LINKAGE

SPECIAL EVENT		SAFETY TOPIC	MEH.	MACP
TIME / DEPTH		DIVERTER	18	

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS | DRIVERS

EVENING TOUR FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

LICENCE NO.	WELL NAME & NO.
1991	ANADARKO ARROWHEAD RIVER K-35

OPERATOR	CONTRACTOR NAME
ANADARKO CANADA CORP.	SHEHTAH-WILSON PARTNERSHIP

SURFACE LOCATION	UNIQUE ID
60:34:38.10 N 122:51:47.20 W	300K356040122450

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
DALE KOZMA	BOB ROGERS

DAILY CHECKS

	OPR	R.M.	SR
(1) Daily Walk Around Inspection			
(2) Detailed Inspection - Weekly (Using Check List)			
(3) H2S Signs Posted if Required			
(4) Well Licence & Stick Diagram Posted			
(5) Flare Lines Staked			
(6) BOP Drills Performed			
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines			
(1) Rig Site Health & Safety Meeting (one/crew/month)			
(2) CAODC Rig Safet Inspection Checklist (one/rig/month)			
(3) Mast Inspection before Raising or Lowering			BR
(4) Crown Saver Checked			
(5) Motor Kills Checked			

YEAR 2003 MONTH 3 DAY 27

RIG NO. 4

FUEL IN BINS: RIG ____ BOILER ____

TEMPERATURE ____

CURRENT CONDITIONS ____

WIND DIRECTION ____

ROAD CONDITION ____

LAST CASING / TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	244.5	220.4	59.50	ALGOMA	L80	50	652.87	6.30	652.00

	DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
		114	24.70	E	97	155	4.5XH	320
		114	62.50	HW	70	155	4.5XH	37

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
8-P80	NATIONAL	216
8-P80	NATIONAL	216

SPUD DATE	2003/03/21
RIG RELEASE	2003/03/27
WELL TYPE	
OPERATOR'S AFE	
KELLY BSHG	
CONTRACTOR'S JOB NUM	2
TOUR SHEET SERIAL NUM	
VENDOR SOFTWARE VERSION	
TIME	01:00
TIME	12:00
RE-ENTRY	
OFF FUEL	

PASON DATAHUB

CODE NO.	1 RIGUP & TEARDOWN	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 WIRELINE LOGS	12 RUN CSG & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILLSTEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26	TOTALS
MORN	0.75					1.50									0.25							2.50	3.00				8.00
DAY	8.00																										8.00
EVE	8.00																										8.00
TOTAL	16.75					1.50									0.25							2.50	3.00				24.00

SHALE SHAKER(S): NO. 2 | TYPE F.S.I. | TYPE | SCREENS CHANGED | NEW USED

TOP	MIDDLE	BOTTOM
165	165	165
165	165	165
165	165	165

RENTALS / SERVICES

	MORN	DAY	EVE
CENTRIFUGE	8	8	8
HEAVYWATE DRILL PIPE	8	8	8

DRILLING CREW PAYROLL DATA

WELL NAME & NO. ____ YEAR ____ MONTH ____ DAY ____

OPERATOR ____ CONTRACTOR NAME ____

RIG MANAGER ____ RIG NO. ____

PROVINCE ____ CAMP ☐ YES ☐ NO RIG SAFETY DAYS ____

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
	BIT	O.D.
	D.P. STANDS	
	D.P. SINGLES	
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD: BIT NO. ____ SIZE ____ IADC CODE ____ MANUFACTURER ____ TYPE ____ SERIAL NO. ____ JETS ____ DEPTH OUT (m) ____ DEPTH IN (m) ____ TOTAL DRILLED (m) ____ TOTAL HRS RUN ____

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY ____ FLUID LOSS (cm3) ____ pH ____

MUD MATERIALS ADDED: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL — CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 | 2

	1		2
HRS RUN	8.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | PUMP NO. 1 SPM | PUMP NO. 2 LINER SIZE | PUMP NO. 2 SPM

152.0 | 152.0

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DENNIS TESSIER

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	230	2.50	22	COOL BOWL & TEST WELD
230	400	1.50	6	RIH W/HWDP,BREAK KELLY & POOH SIDEWAYS
400	700	3.00	23	INSTALL SPEED SPOOL & WELLHEAD
700	715	0.25	15	TEST WELLHEAD-7000 kpa F/10 MIN.
715	800	0.75	1	TEAR DOWN RIG
800				

NOTES: CHECK BRAKE PINS & LINKAGE

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: WELLHEAD | MEH.: 18 | MACP

RATE SCHEDULE ____ REGULAR ____ REPAIR ____ INVERT ____

CREW SAFETY DAYS ____ DRIVERS ____

MORNING TOUR FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
	BIT	O.D.
	D.P. STANDS	
	D.P. SINGLES	
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD: BIT NO. ____ SIZE ____ IADC CODE ____ MANUFACTURER ____ TYPE ____ SERIAL NO. ____ JETS ____ DEPTH OUT (m) ____ DEPTH IN (m) ____ TOTAL DRILLED (m) ____ TOTAL HRS RUN ____

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY ____ FLUID LOSS (cm3) ____ pH ____

MUD MATERIALS ADDED: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL — CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 | 2

	1		2
HRS RUN	8.00	HRS RUN	
BOILER pH	11.0	BOILER pH	
STACK TEMP	360	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | PUMP NO. 1 SPM | PUMP NO. 2 LINER SIZE | PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: BRAD BRAITHWAITE

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1600	8.00	1	TEAR DOWN RIG
1600				
				RIG RELEASE 12:00 HRS. 3/27/2003 THANKS MEN

NOTES: CUT 15 WRAPS OFF 24M

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: RIG OUT | MEH. | MACP: 0

RATE SCHEDULE ____ REGULAR ____ REPAIR ____ INVERT ____

CREW SAFETY DAYS ____ DRIVERS ____

DAY TOUR FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
	BIT	O.D.
	D.P. STANDS	
	D.P. SINGLES	
	KELLY DOWN	
	TOTAL	
	WT. OF D.C.	
	WT. OF STRING	

BIT RECORD: BIT NO. ____ SIZE ____ IADC CODE ____ MANUFACTURER ____ TYPE ____ SERIAL NO. ____ JETS ____ DEPTH OUT (m) ____ DEPTH IN (m) ____ TOTAL DRILLED (m) ____ TOTAL HRS RUN ____

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | 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 VISCOSITY ____ FLUID LOSS (cm3) ____ pH ____

MUD MATERIALS ADDED: PRODUCT | AMOUNT | UNIT

SOLIDS CONTROL — CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS: 1 | 2

	1		2
HRS RUN	6.00	HRS RUN	
BOILER pH	10.0	BOILER pH	
STACK TEMP	350	STACK TEMP	

CIRCULATION PRESSURE kPa | PUMP NO. 1 LINER SIZE | PUMP NO. 1 SPM | PUMP NO. 2 LINER SIZE | PUMP NO. 2 SPM

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: DENNIS TESSIER

METRES DRILLED: FROM | TO | D-R-C | RPM | WOB

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2400	8.00	1	TEAR OUT RIG

NOTES:

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: TEAR OUT | MEH. | MACP

RATE SCHEDULE ____ REGULAR ____ REPAIR ____ INVERT ____

CREW SAFETY DAYS ____ DRIVERS ____

EVENING TOUR FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO