LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	MIC HALLOCK

DAILY CHECKS (OPR / S.M.)

- (1.) Daily Walk Around Inspection
- (2.) Detailed Inspection - Weekly (Using Check List)
- (3.) H2S Signs Posted if Required
- (4.) Well License & 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 2008 MONTH 3 DAY 23

RIG NO. 14

FUEL RECEIVED: RIG | BOILER

TEMPERATURES: -25

CURRENT CONDITIONS: CLOUDY

WIND DIRECTION: CALM

ROAD CONDITION: ICE

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	69.94	TENARS	L-80	18	252.19	4.25	252
	177.8	156	38.68	TENARS	L-80	66	896.03	4.25	895

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
DP	102	20.84	X	85	130	4" FH	120	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5"IF	14	F800	EMSCO	229
DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	2008/03/21
TIME	23:59
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	4.25
OP FUEL	
CONTRACTOR'S JOB NUM.	457
TOUR SHEET SERIAL NUM.	AKTA14_20080323_1C
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2

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 MOVING RIG	23	24	25	26
MORN																						8.0				
DAY																						8.0				
EVE																						8.0				
TOTAL																						24.00				

TOTALS
8.00
8.00
8.00
24.00

SHOE SUMMARY

NO.	TYPE DOUBLE LIFE	TYPE
1	SCREWS CHANGED / NEW USED	
TOP	50	TOP
MIDDLE	50	MIDDLE
BOTTOM	50	BOTTOM

RENTALS / SERVICES	MORN	DAY	EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	23

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	YES / NO	9

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)

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

BOILERS

1	2
HRS RUN	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
	152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0800	8.00	22	WIAT ON DAYLIGHT STO MOVE RIG

NOTES:

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

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS	DRIVERS
9	MIKE STRANG

MORNING TOUR FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	8.00			JS
DERRICK HAND		ADAM MATTIES	8.00			AM
MOTOR HAND		TROY LAMBERT	8.00			TL
FLOOR HAND		BRIAN FAULDS	8.00			BF

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

BOILERS

1	2
HRS RUN	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
	152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

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	22	MOVE RIG

NOTES:

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

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS	DRIVERS
9	MIKE STRANG

DAY TOUR FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	12.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	12.00			JV
MOTOR HAND		LAMONT LESLIE	12.00			LL
FLOOR HAND		MIKE STRANG	12.00			MS
LEASE HAND		CHARLES GULLY	12.00			CG
W.S.S.C.		TONY OGILVIE	12.00			TO

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

BOILERS

1	2
HRS RUN	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
	152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE

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	22	MOVE RIG

NOTES:

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

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS	DRIVERS
9	MIKE STRANG

EVENING TOUR FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	4.00			JS
DERRICK HAND		ADAM MATTIES	4.00			AM
MOTOR HAND		TROY LAMBERT	4.00			TL
FLOOR HAND		BRIAN FAULDS	4.00			BF

LICENCE NO	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	MIC HALLOCK

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	SM	HU
(2.) Detailed Inspection - Weekly (Using Check List)	SM	HU
(3.) H2S Signs Posted if Required	SM	HU
(4.) Well License & Sick 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)		HU
(2.) CAODC Rig Safet Inspection Checklist (one/rig/month)		HU
(3.) Hoist Inspection before Raising or Lowering		HU
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2008 MONTH 3 DAY 22

RIG NO. 14

FUEL @ 08:00 HRS: RIG ____ BOILER ____

TEMPERATURE -25

CURRENT CONDITIONS CLOUDY

WIND DIRECTION CALM

ROAD CONDITION ICE

	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	220	69.94	TENARS	L-80	18	252.19	4.25	252
LINER	177.8	156	38.68	TENARS	L-80	66	896.03	4.25	895

	DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DRILL STRING	DP	102	20.84	X	85	130	4" FH	120
	DC	121	69.4	E	55	127	3.5"IF	14
	DC	159	134.66	E	60	159	4.5XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	2008/03/21
TIME	23:59
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S APIN	US-28423
KELLY BSHG	4.25
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080322_1C
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2

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 WAIT ON DAY LIGHT	23	24	25	26	TOTALS
MORN	1.0																					7.0					8.00
DAY																							8.0				8.00
EVE																						8.0					8.00
TOTAL	1.00																					15.00	8.00				24.00

SHALE SHAKER(S)	NO.	TYPE	SCREENS CHANGED	NEW USED
	1	DOUBLE LIFE	NO	

SCREENS	TYPE	TOP	MIDDLE	BOTTOM
		50	50	50

RENTALS / SERVICES	MORN	DAY	EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	22

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	8

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	8.00			JS
DERRICK HAND		ADAM MATTIES	8.00			AM
MOTOR HAND		TROY LAMBERT	8.00			TL
FLOOR HAND		BRIAN FAULDS	8.00			BF
		RL				
		LA				

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS: 8

DRIVERS: MIKE STRANG

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	12.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	12.00			JV
MOTOR HAND		LAMONT LESLIE	12.00			LL
FLOOR HAND		MIKE STRANG	12.00			MS
~~LEASE HAND~~		~~CHARLES GULLY~~	12.00			CG
W.S.S.C.		TONY OGILVIE	12.00			TO
		RL				

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS: 8

DRIVERS: MIKE STRANG

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	4.00			JS
DERRICK HAND		ADAM MATTIES	4.00			AM
MOTOR HAND		TROY LAMBERT	4.00			TL
FLOOR HAND		BRIAN FAULDS	4.00			BF

RATE SCHEDULE: ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS: 8

DRIVERS: MIKE STRANG

MORNING TOUR

NO.	DRILLING ASSEMBLY (LATEST 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

BOILERS: 1 | 2; HRS RUN 8 | HRS RUN; BOILER pH 10 | BOILER pH; STACK TEMP 480 | STACK TEMP

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

CIRCULATION PRESSURE kPa; PUMP NO. 1: LINER SIZE 152, SPM; PUMP NO. 2: LINER SIZE 152, SPM

REDUCED PUMP SPEED: @ ____ @ ____

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	100	1.00	1	TEAR OUT PREFABS,TONGS,LAY OUT BOP,LAYOVER DERRICK,CLEAN MUD TANKS
				INSPECT DERRICK PRIOR TO LOWERING
0100	800	7.00	22	WAIT ON DAYLIGHT TO MOVE LOADS

NOTES: JSA- LAYING OVER DERRICK,STEAM CLEANING

SPECIAL EVENT / TIME / DEPTH | SAFETY TOPIC: LAYING OVER DERRICK | MEHL | MACP

DAY TOUR

NO.	DRILLING ASSEMBLY (LATEST 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

BOILERS: 1 | 2; HRS RUN | HRS RUN; BOILER pH | BOILER pH; STACK TEMP | STACK TEMP

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

CIRCULATION PRESSURE kPa; PUMP NO. 1: LINER SIZE 152, SPM; PUMP NO. 2: LINER SIZE 152, SPM

REDUCED PUMP SPEED: @ ____ @ ____

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1600	8.00	23	MOVE LOADS DOWN HILL

NOTES:

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

EVENING TOUR

NO.	DRILLING ASSEMBLY (LATEST 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

BOILERS: 1 | 2; HRS RUN | HRS RUN; BOILER pH | BOILER pH; STACK TEMP | STACK TEMP

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

CIRCULATION PRESSURE kPa; PUMP NO. 1: LINER SIZE 152, SPM; PUMP NO. 2: LINER SIZE 152, SPM

REDUCED PUMP SPEED: @ ____ @ ____

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2400	8.00	22	WAIT ON DAY TO MOVE RIG
				24T/O

NOTES:

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

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

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

OPR	B.M.
SM	HU
SM	HU
SM	HU
SM	HU
SM	HU
SM	HU
SM	HU
	HU
	HU
	HU
	HU

YEAR 2008 MONTH 3 DAY 21
RIG NO. 14
FUEL: RIG / BOILER
TEMPERATURES: -28
CURRENT CONDITIONS: CLOUDY
WIND DIRECTION: CALM
ROAD CONDITION: ICE

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	69.94	TENARS	L-80	18	252.19	4.25	252
	177.8	156	38.68	TENARS	L-80	66	896.03	4.25	895

DC / DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DP	102	20.84	X	85	130	4" FH	120
DC	121	69.4	E	55	127	3.5"IF	14
DC	159	134.66	E	60	159	4.5XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	2008/03/21
TIME	23:59
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	4.25
GR FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080321_1E
VENDOR SOFTWARE VERSION	EDR 3-2-8_HF1 ETS 2.2

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 RUN BRIDGE PLUG	23	24	25	26
MORN					3.75							3.5	0.5								0.25					
DAY	0.5					1.0							5.25								0.25	1.0				
EVE	6.0					0.25						1.5									0.25					
TOTAL	6.50				3.75	1.25						5.00	5.75								0.75	1.00				

RENTAL SERVICES	MORN	DAY	EVE
TOTALS	8.00		
	8.00		
	8.00		
	24.00		

NO.	1	2	3
TYPE	DOUBLE LIFE		
SCREENS CHANGED		NEW USED	
TOP	50	TOP	
MIDDLE	50	MIDDLE	
BOTTOM	50	BOTTOM	

MORNING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	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	0115
DENSITY (kg/m3)	1100
FUNNEL VISCOSITY	55
FLUID LOSS (cm3)	6.5
pH	7

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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	560	STACK TEMP	580

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	345	3.75	5	CONDITION MUD & CIRCULATE
345	400	0.25	21	SAFETY MEETING W/ CEMENTERS
400	730	3.50	12	RIG TO AND CEMENT CASING
730	800	0.50	13	WAIT ON CEMENT

NOTES: FUNCTION CROWN SAVER FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- G10(CIRCULATING CASING) G50(CEMENT CASING) G46(USE HAND TOOLS)

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		CEMENT CASING		1841

DAY TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	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: | 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	HRS RUN	
BOILER pH	10	BOILER pH	
STACK TEMP	450	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1315	5.25	13	WAIT ON CEMENT
1315	1330	0.25	21	SAFETY MEETING W/WIRE LINNERS AND CREW
1330	1430	1.00	22	RUN PREMANENT BRIDGE PLUG @ 50M
1430	1500	0.50	1	NIPPLE DOWN BOP CUT CASING.
1500	1600	1.00	6	RUN IN OPENED TO CEMENT PLUG TO SURFACE.

NOTES: REVIEW JSA'S L4 TEAR OUT B.O.P. G13 OPERATE TUGGER G42 LOADER OOPERATION

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		NIPPLE DOWN		

EVENING TOUR

DRILLING ASSEMBLY (AT END OF TOUR)

NO.	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: | 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	HRS RUN	
BOILER pH	10	BOILER pH	
STACK TEMP	460	STACK TEMP	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	21	SAFETY MEETING W/CEMENT HANDS AND CREW
1615	1745	1.50	12	RUN CEMENT PLUG 50M FR PERMANENT BRIDGE PLUG TO SURFACE
1745	1800	0.25	6	PULL 5 D.P. OUT OF HOLE
1800	2400	6.00	1	TEAR OUT. R.R. 2400 HRS. MAR.21/08.

CEMENTED WITH 18.4 TONNE OF RFC LITE, FOLLOWED BY 8.4 TONNE
OF CLASS G. PLUG DOWN AT 0644 HRS. MAR.21/08. HELD 10,000 KPA FOR
10 MIN. DISPLACED WITH 16.8 M3 OF FRESH WATER W/ INHIBITER.
RAN PERMANENT BRIDGE PLUG AT 50 M, TOPPED TO SURFACE WITH
1 TONNE OF CLASS G NEAT. CUT ,CAPPED AND SIGNED WELL.

NOTES: REVIEW JSA-TEAR OUT TONGS,CLEANING TANKS

SPECIAL EVENT		SAFETY TOPIC	MEHL	MACP
TIME / DEPTH		HAND TOOLS		

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	21

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	7

MORNING TOUR — FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		MARK CLIFFORD T3	8.00		MC
DERRICK HAND		JONOTHON SLEDZ	8.00		JS
MOTOR HAND		DWAYNE PACKER	8.00		DP
FLOOR HAND		STANLEY GRAHAM	8.00		SG

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 7 — DRIVERS: MIKE STRANG

DAY TOUR — FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		J.D. HINKLEY	12.00		JH
W.S.S.C.		TONY OGILVIE	12.00		TO
DERRICK HAND		JEFF VANWALLEGHEM	12.00		JV
MOTOR HAND		LAMONT LESLIE	12.00		LL
FLOOR HAND		JASON MCINTOSH	12.00		JM
LEASE HAND	FL	MIKE STRANG	12.00		MS
LEASE HAND		CHARLES GULLY	12.00		CG

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 7 — DRIVERS: MIKE STRANG

EVENING TOUR — FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		JOSH SLEDZ	4.00		JS
DERRICK HAND		ADAM MATTIES	4.00		AM
MOTOR HAND		TROY LAMBERT	4.00		TL
FLOOR HAND		BRIAN FAULDS	4.00		BF

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 7 — DRIVERS: MIKE STRANG

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

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

YEAR 2008 MONTH 3 DAY 20
RIG NO. 14
FUEL @ 06:00 HRS: RIG ___ BOILER ___
TEMPERATURE -28
CURRENT CONDITIONS CLOUDY
WIND DIRECTION CALM
ROAD CONDITION ICE

LAST CASING TUBING ON DRILL	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	69.94	TENARS	L-80	18	252.19	4.25	252
	177.8	158	38.68	TENARS	L-80	66	896.03	4.25	895

DC/DP	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DP	20.84	X	85	130	4" FH	120
DC	69.4	E	55	127	3.5"IF	14
DC	134.66	E	60	159	4.5XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	2008/03/21
TIME	23:59
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BUSHING	
OP. FUEL	
CONTRACTOR'S JOB NUM.	457
TOUR SHEET SERIAL NUM.	AKTA14_20080320_1E
VENDOR SOFTWARE VERSION	EDR 3-2-8, HF1 ETS 2.2

PASON DATAHUB

CODE HRS	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			2.0		3.25	2.5	0.25																				8.00
DAY						3.25						4.5									0.25						8.00
EVE					2.25							5.75															8.00
TOTAL			2.00		5.50	5.75	0.25					10.25									0.25						24.00

SAFETY CHECKLIST	NO.	TYPE	TYPE	PERSONNEL / SERVICES	MORN	DAY	EVE
	1	DOUBLE LIFE					
		SCREENS CHANGED	NO	NEW USED			
		TOP 50	TOP				
		MIDDLE 50	MIDDLE				
		BOTTOM 50	BOTTOM				

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		O.D.	LENGTH
1	BIT			0.27
1	BIT SUB		159	0.73
4	D.C.		159	38.14
1	JAR		159	4.76
2	D.C.		159	18.78
1	X.O.		159	0.26
4	D.C.		121	38.09
1	X.O.		121	0.30
	D.P.	STANDS		
42	D.P.	SINGLES		784.19
KELLY DOWN				9.48
TOTAL				895.00
WT. OF D.C.		13		
WT. OF STRING		25		

BIT RECORD

BIT NO.	3
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	3X 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	1UP 1DOWN
TORQUE AT BOTTOM	399
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE: ___ WATER BASED: X OIL BASED: ___

TIME	0330	0445	0600
DENSITY (kg/m3)	1090	1090	1090
FUNNEL VISCOSITY	55	70	81
FLUID LOSS (cm3)	6.5	6.5	6.5
pH	7	7	7

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
KELZAN	3	SX
DRISPAC	3	SX

SOLIDS CONTROL

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

BOILERS: HRS RUN 8 | HRS RUN 8 | BOILER pH 10 | BOILER pH 10 | STACK TEMP 470 | STACK TEMP 450

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
643	676	R	100	1.0
887	895	R	100	1.0

CIRCULATION PRESSURE kPa: 5116

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	110

REDUCED PUMP SPEED: 1782 @ 59 @ 895

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0045	0.75	6	CONT. R.I.H., BLOW KELLY W/AIR
0045	0145	1.00	3	REAMING 643m TO 676m
0145	0215	0.50	6	CONT. TO R.I.H.
0215	0315	1.00	3	REAM FR 887m TO 895m
0315	0630	3.25	5	CONDITION MUD & CIRCULATE
0630	0645	0.25	7	RIG SERVICE/FUNCTION CROWN SAVER AND MOTOR KILLS(3SEC)
0645	0800	1.25	6	P.O.O.H. SIDEWAYS T/RUN CASING WITH FLOW CHECKS @ 895m,855m,448m,110m,0m
				TRIP VOLUMES-CALC.3.45m3 MEAS.6.30m3 DIFF.+ 2.85m3

NOTES: FUNCTION HYDRILL(7SEC) PIPE RAMS(5SEC) HCR(3SEC)
REVIEW JSA'S-G44 CIRCULATING D29 LAYDOWN D.P. D51 COMING OUT SIDEWAYS

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MBL	MACP
	COMING OUT SIDEWAYS	26	1841

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		O.D.	LENGTH
1	BIT			0.27
1	BIT SUB		159	0.73
4	D.C.		159	38.14
1	JAR		159	4.76
2	D.C.		159	18.78
1	X.O.		159	0.26
4	D.C.		121	38.09
1	X.O.		121	0.30
	D.P.	STANDS		
82	D.P.	SINGLES		784.19
KELLY DOWN				9.48
TOTAL				895.00
WT. OF D.C.		13		
WT. OF STRING		25		

BIT RECORD

BIT NO.	3
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	3X 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)	

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

BOILERS: HRS RUN 8 | HRS RUN 8 | BOILER pH 10 | BOILER pH 10 | STACK TEMP 590 | STACK TEMP 560

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa: ___

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1115	3.25	6	CONTINUE TO LAY DOWN SIDEWAYS TO RUN CASING
1115	1330	2.25	12	BRING CASING OVER TO RACKS AND PREPARE TO RUN IT
1330	1345	0.25	21	SAFETY MEETING W/ FI TONG HANDS
1345	1600	2.25	12	RIG TO AND RUN CASING
1600				

NOTES: FUNCTION CROWN SAVER FUNCTION HYDRIL 6sec PIPERAMS 4sec BLIND RAMS 5sec HCR 3sec
REVIEW JSA- D29(LAYDOWN D.P) D13(RUN CASING) C8(ROLL PIPE)

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MBL	MACP
	LAY DOWN DP		1841

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		O.D.	LENGTH
	BIT			
	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	2245
DENSITY (kg/m3)	1100
FUNNEL VISCOSITY	55
FLUID LOSS (cm3)	6.5
pH	7.

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAL CARB 'O'	25	SX

SOLIDS CONTROL

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

BOILERS: HRS RUN 8 | HRS RUN 8 | BOILER pH 10 | BOILER pH 10 | STACK TEMP 540 | STACK TEMP 570

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa: 1933

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	65

REDUCED PUMP SPEED: 1420 @ @ 59

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2145	5.75	12	CONTINUE TO RUN CASING
2145	2400	2.25	5	CONDITION MUD & CIRCULATE
2400				
				RAN 66 JTS OF 177.8 MM,38.68 KG/M, L-80, LT&C ABANDONMENT CASING.
				SHOE TRACK 54 M.

NOTES: FUNCTION CROWN SAVER. FUNCTION HYDRIL 6sec, PIPE RAMS 4sec HCR 3sec
REVIEW JSA #C1 PUT CASING ON RACK, #D33 RUN CASING, #D14 CIRCULATE CASING

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MBL	MACP
	RUN CASING	33	1841

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	20

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ___ NO	6

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		JASON MCINTOSH	8.00			JM
FLOOR HAND		GERRY MORASH	8.00			GM
LEASE HAND		MIKE STRANG	8.00			MS

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT ___

CREW SAFETY DAYS: 6 — DRIVERS: MIKE STRANG

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	8.00			MC
DERRICK HAND		JONOTHON SLEDZ	8.00			JS
MOTOR HAND		DWAYNE PACKER	8.00			DP
FLOOR HAND		STANLEY GRAHAM	8.00			SG
LEASE HAND		CHARLES GULLY	8.00			CG
W.S.S.C.		TONY OGILVIE	12.00			TO

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT ___

CREW SAFETY DAYS: 6 — DRIVERS: ___

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		GERRY MORASH	8.00			GM
FLOOR HAND		JASON MCINTOSH	8.00			JM
LEASE HAND		MIKE STRANG	8.00			MS

RATE SCHEDULE: X REGULAR ___ REPAIR ___ INVERT ___

CREW SAFETY DAYS: 6 — DRIVERS: MIKE STRANG

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCAT[illegible]	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

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

YEAR	MONTH	DAY
2008	3	19

RIG NO. 14

RIG [illegible] 08:00 HRS BOILER

TEMPERATURE -28

CURRENT CONDITIONS CLOUDY

WIND DIRECTION CALM

ROAD CONDITION ICE

LAST CASING RUN OD WEIGHT GRADE

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
DP	102	20.84	X	85	130	4" FH	120
DC	121	69.4	E	55	127	3.5"IF	14
DC	159	134.66	E	60	159	4.5XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080319_1E
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2

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											8.0															
DAY							0.25				7.75															
EVE						3.5	0.5				3.75										0.25					
TOTAL						3.50	0.75				19.50										0.25					

	MORN	DAY	EVE
TOTALS	8.00	8.00	8.00
	24.00		

SHALE SHAKER(S)

NO.	TYPE	SCREENS CHANGED	NEW USED	TOP	MIDDLE	BOTTOM
1	DOUBLE LIFE	NO		50	50	50

PERSONNEL / SERVICES

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		LENGTH
	BIT	O.D.	0.27
1	BIT SUB	159	0.73
4	D.C.	159	38.14
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
62	D.P.	SINGLES	784.19
KELLY DOWN			9.48
TOTAL			895.00
WT. OF D.C.	13		
WT. OF STRING	25		

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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	540	STACK TEMP	570

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0100	1.00	11	CONT. WIRE LINE LOG RUN#3 TOOLS-CMR FLUID TYPING
0100	0800	7.00	11	WIRE LINE LOG RUN#4 TOOLS-MRPS,MRHY,MRPO,LFA,MRMS,GR
				BRIDGED OFF @652M

NOTES: FUNCTION HYDRILL(7SEC) PIPE RAMS(5SEC) BLIND RAMS(5SEC) HCR(3SEC)
REVIEW JSA-B1 BOILER BLOW DOWN D4 GENERATOR SERVICE CHECK G18 OPERATION OF CREW
TRUCK

SPECIAL EVENT			SAFETY TOPIC	MEN	MACP
TIME / DEPTH			WIRE LINE LOGGING		1841

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		LENGTH
	BIT	O.D.	0.27
1	BIT SUB	159	0.73
4	D.C.	159	38.14
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
62	D.P.	SINGLES	784.19
KELLY DOWN			9.48
TOTAL			895.00
WT. OF D.C.	13		
WT. OF STRING	25		

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
KELZAN	1	SX
DRISPAC	1	SX
SODA ASH	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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	585	STACK TEMP	560

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE
815	1600	7.75	11	CONTINUE WIRELINE LOG RUN #4

NOTES: FUNCTION CROWN SAVER FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- G31 BRING LUNCH TO DOGHOUSE, G35 HANDLING OIL DRUMS, G38 WASHING RIG

SPECIAL EVENT			SAFETY TOPIC	MEN	MACP
TIME / DEPTH			BOILER BLOW DOWN		1841

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		LENGTH
	BIT	O.D.	0.27
1	BIT SUB	159	0.73
4	D.C.	159	38.14
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
62	D.P.	SINGLES	784.19
KELLY DOWN			9.48
TOTAL			895.00
WT. OF D.C.	13		
WT. OF STRING	25		

BIT RECORD

BIT NO.	3
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	3X 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)	

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
CAUSTIC SODA	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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	590	STACK TEMP	580

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE
1615	1830	2.25	11	CONTINUE WIRELINE LOG RUN # 4
1830	2000	1.50	11	RIG OUT WIRELINE LOGERS
2000	2015	0.25	7	RIG SERVICE/FUNCTION CROWN SAVER AND MOTOR KILLS(3SEC)
2015	2030	0.25	21	B.O.P. DRILL WITH CREW WELL SECURE IN 52 SEC
2030	2400	3.50	6	CLEAN UP TRIP WITH FLOW CHECKS @ 110M,448M

NOTES: FUNCTION CROWN SAVER FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA-D24 R.I.H. D50 INSPECT TONGS F16 FUNCTION CROWN SAVER

SPECIAL EVENT			SAFETY TOPIC	MEN	MACP
TIME / DEPTH			R.I.H.	21	1841

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	HUSKY et al Keele River L-52
YEAR	2008
MONTH	3
DAY	19
OPERATOR	HUSKY OIL OPERATIONS LIMITED
CONTRACTOR NAME	AKITA DRILLING LTD.
RIG MANAGER	HALLOCK / UNRAU
RIG NO.	14
PROVINCE	N.W.T.
CAMP	X YES ☐ NO
RIG SAFETY DAYS	5

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		JASON MCINTOSH	8.00		JM	
FLOOR HAND		GERRY MORASH	8.00			GM
LEASE HAND		MIKE STRANG	8.00			MS

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 5

DRIVERS: MIKE STRANG

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	12.00			MC
DERRICK HAND		JONOTHON SLEDZ	12.00			JS
MOTOR HAND		DWAYNE PACKER	12.00			DP
FLOOR HAND		STANLEY GRAHAM	12.00			SG
LEASE HAND		CHARLES GULLY	12.00			CG
W.S.S.C.		TONY OGILVIE	12.00			TO

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 5

DRIVERS: MIKE STRANG

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	4.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND		LAMONT LESLIE	4.00			LL
FLOOR HAND		GERRY MORASH	4.00			GM
FLOOR HAND		JASON MCINTOSH	4.00			JM
LEASE HAND		MIKE STRANG	4.00			MS

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 5

DRIVERS: MIKE STRANG

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

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

YEAR 2008 MONTH 3 DAY 18
RIG NO. 14
FUEL & DELIVERIES: RIG / BOILER
TEMPERATURE -26
CURRENT CONDITIONS: CLOUDY
WIND DIRECTION: CALM
ROAD CONDITION: ICE

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
	DP	102	20.84	X	85	130	4" FH	120
	DC	121	69.4	E	55	127	3.51F	14
	DC	159	134.66	E	60	159	4.5XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080318_1D
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2

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					3.0	4.25					0.25										0.5					
DAY							0.25				7.75															
EVE											8.0															
TOTAL					3.00	4.25	0.25				16.00										0.50					

TOTALS
8.00
8.00
8.00
24.00

SHALE SHAKERS: NO. 1 TYPE DOUBLE LIFE; SCREENS CHANGED NO; TYPE NEW/USED; TOP 50; MIDDLE 50; BOTTOM 50

RENTALS / SERVICES — MORN. | DAY | EVE.

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	18

OPERATOR: HUSKY OIL OPERATIONS LIMITED — CONTRACTOR NAME: AKITA DRILLING LTD.
RIG MANAGER: HALLOCK / UNRAU — RIG NO. 14
PROVINCE: N.W.T. — CAMP: X YES ☐ NO — RIG SAFETY DAYS 4

MORNING TOUR — FROM 0 TO 800

NO.	DRILLING ASSEMBLY (LISTED OUT OF HOLE)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
4	D.C.	159	38.14
1	JAR	159	4.78
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
82	D.P.	SINGLES	784.19
	KELLY DOWN		9.48
	TOTAL		895.00
	WT. OF D.C.	13	
	WT. OF STRING	25	

BIT RECORD

BIT NO.	#3
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	3x 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 1up 1down; TORQUE AT BOTTOM 400; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE		WATER BASED ☐	OIL BASED ☐
TIME	0030	0200	0245
DENSITY (kg/m3)	1080	1100	1095
FUNNEL VISCOSITY	70	83	90
FLUID LOSS (cm3)	6.5	6.0	6
pH	9	9	9

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAL CARB 'O'	117	SX
DRISPAC	4	SX
KELZAN	1	SX

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

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10.5	10
STACK TEMP	540	560

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

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
4159	152		152	105

REDUCED PUMP SPEED: 1605 @ 56 @ 895

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0300	3.00	5	CONDITION MUD & CIRCULATE/WIEGHT UP MUD TO 1090
0300	0315	0.25	21	B.O.P. DRILL W/CREW WELL SECURE IN 47 SEC.
0315	730	4.25	6	P.O.O.H. T/RUN WIRE LINE LOGS WITH FLOW CHECKS@ 895m,856m,448m,110m,0m,
				HOLE FILL VOLUMES- CALC.3.45m3 MEAS. 5.13m3 DIFF. +1.68m3
				FUNCTION BLINDRAM-2 SEC.CLOSED
730	745	0.25	21	SAFETY MEETING W/ LOGGERS
745	800	0.25	11	RIG TO AND WIRELINE LOG

NOTES: FUNCTION HYDRILL(7SEC) PIPE RAMS(5SEC) HCR(3SEC)
REVIEW JSA'S-D44 SLIPS AND ELEVATOR MAINT. G33 RIG SERVICE A15 WIRE LINE LOGS

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MEN.	MACP
RIG SERVICE	26	1841

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		JASON MCINTOSH	8.00		JM	
LEASE HAND		MIKE STRANG	8.00			MS

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS: 4 — DRIVERS: MIKE STRANG

DAY TOUR — FROM 800 TO 1600

NO.	DRILLING ASSEMBLY (LISTED OUT OF HOLE)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
4	D.C.	159	38.14
1	JAR	159	4.78
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
82	D.P.	SINGLES	784.19
	KELLY DOWN		9.48
	TOTAL		895.00
	WT. OF D.C.	13	
	WT. OF STRING	25	

BIT RECORD

BIT NO.	#3
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	3x 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)

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED ☐
TIME	1400		
DENSITY (kg/m3)	1095		
FUNNEL VISCOSITY	78		
FLUID LOSS (cm3)	6.9		
pH	8.5		

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAL CARB 325	25	SX

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

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10	10
STACK TEMP	580	560

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

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
815	1400	5.75	11	CONTINUE WIRELINE LOGGING- TD 889m TOOL- AIT, TLD, CNL, CMR, ECS, TLD2
				TIME ON BOTTOM 9:07
1400	1500	1.00	11	RIG OUT TOOLS FOR RUN #2 RIG UP TOOLS FOR RUN #3
1500	1600	1.00	11	WIRELINE LOG RUN #3- TOOL-CMR. STATION STOPS T.O.B 17:00

NOTES: RFUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- D31 RIG IN WIRE LINE LOGGERS, G60 TRANSFER FUEL, G38 HAULING GARBAGE
EXTRA HOURS FOR PRE- TOUR SAFETY MEETINGS

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MEN.	MACP
LOGGING		1841

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	14.00			MC
DERRICK HAND		JONOTHON SLEDZ	14.00			JS
MOTOR HAND		DWAYNE PACKER	14.00			DP
FLOOR HAND		STANLEY GRAHAM	14.00			SG
LEASE HAND		CHARLES GULLY	14.00			CG
W.S.S.C.		TONY OGILVIE	14.00			TO

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS: 4 — DRIVERS:

EVENING TOUR — FROM 1600 TO 2400

NO.	DRILLING ASSEMBLY (LISTED OUT OF HOLE)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
4	D.C.	159	38.14
1	JAR	159	4.78
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
82	D.P.	SINGLES	784.19
	KELLY DOWN		9.48
	TOTAL		895.00
	WT. OF D.C.	13	
	WT. OF STRING	25	

BIT RECORD

BIT NO.	#3
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	3x 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)

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

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10	10
STACK TEMP	575	590

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

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2400	8.00	11	CONTINUE WIRELINE LOG RUN #3 TOOLS-CMR FLUID TYPING

NOTES: FUNCTION CROWN SAVER FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA-E5 REPLACE MOTOR ON STEAM HEATER A5 LOCK OUT E2 CHANGE LIGHT BULBS
EXTRA HOURS FOR SAFETY MEETINGS

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MEN.	MACP
LOAD SECURMENT		1841

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	6.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	6.00			JV
~~MOTOR HAND~~		LAMONT LESLIE	6.00			LL
FLOOR HAND		GERRY MORASH	6.00			GM
~~FLOOR HAND~~		JASON MCINTOSH	6.00		JM	
LEASE HAND		MIKE STRANG	6.00			MS

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS: 4 — DRIVERS: MIKE STRANG

LICENCE NO	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR: HUSKY OIL OPERATIONS LIMITED	CONTRACTOR NAME: AKITA DRILLING LTD.
SURFACE LOC: L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: HALLOCK / UNRAU

DAILY CHECKS

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

OPR	R.M.
SM	HU
SM	HU
SM	HU
SM	HU
SM	HU
SM	HU
SM	HU
	HU
	HU
	HU
	HU

YEAR 2008 MONTH 3 DAY 17
RIG NO. 14
FUEL & WATER HRS: RIG / BOILER
TEMPERATURE -23
CURRENT CONDITIONS: CLOUDY
WIND DIRECTION: CALM
ROAD CONDITION: ICE

LAST CASING RUN	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
SURFACE									
INTERMED.									
OIL STRING									
LINER									

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
DP	102	20.84	X	85	130	4" FH	120	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5"IF	14	F800	EMSCO	229
DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	457		
TOUR SHEET SERIAL NUM	AKTA14_20080317_1C		
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2		

PASON DATAHUB

CODE HO	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											8.0															
DAY						2.5	0.25				3.25										0.5	1.5				
EVE			1.75		3.5	2.0	0.25															0.5				
TOTAL			1.75		3.50	4.50	0.50				11.25										0.50	2.00				

STRING STABILIZER		RENTALS / SERVICES	MORN	DAY	EVE
TOTALS	NO. 1 / TYPE DOUBLE LIFE / TYPE				
8.00	SCREENS CHANGED NO / NEW/USED				
8.00	50 TOP / TOP				
8.00	50 MIDDLE / MIDDLE				
24.00	50 BOTTOM / BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	17

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	3

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		JASON MCINTOSH	8.00			JM
LEASE HAND		MIKE STRANG	8.00			MS

RATE SCHEDULE: X REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 3
DRIVERS: MIKE STRANG

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	12.00			MC
DERRICK HAND		JONOTHON SLEDZ	12.00			JS
MOTOR HAND		DWAYNE PACKER	12.00			DP
FLOOR HAND		STANLEY GRAHAM	12.00			SG
LEASE HAND	EL	GERRY MORASH	12.00			GM
LEASE HAND		CHARLES GULLY	12.00			CG
W.S.S.C.		TONY OGILVIE	12.00			TO

RATE SCHEDULE: X REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 3
DRIVERS:

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	4.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND		LAMONT LESLIE	4.00			LL
FLOOR HAND		JASON MCINTOSH	4.00			JM
LEASE HAND		MIKE STRANG	4.00			MS

RATE SCHEDULE: X REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 3
DRIVERS: MIKE STRANG

MORNING TOUR

BIT RECORD

NO.	BIT	O.D.	LENGTH
1	BIT		0.27
1	BIT SUB	159	0.73
8	D.C.	159	75.21
1	JAR	159	4.78
2	D.C.	159	18.78
1	X.O	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
78	D.P. STANDS SINGLES		745.91
KELLY DOWN			10.69
TOTAL			895.00

WT. OF D.C. 13
WT. OF STRING 27

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

BOILER 1 HRS RUN	8	BOILER 2 HRS RUN	8
BOILER 1 pH	10	BOILER 2 pH	10
STACK TEMP	540	STACK TEMP	580

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0100	1.00	11	WIRELINE LOGS (CONTINUE RUN #1) FMI, DSI, PPC, HNGS, GR
0100	0800	7.00	11	RIG TO & RUN WIRELINE LOGS (RUN #2) AIT, TLD, HGNS,CMR, ECS, TLD
				MONITOR WELL

NOTES: REVIEW JSA'S-A15 WIRELINE LOGS A5 LOCK OUT G49 USING STEAM

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				CLEAN RIG		1990

DAY TOUR

BIT RECORD

NO.	BIT	O.D.	LENGTH
1	BIT		0.27
1	BIT SUB	159	0.73
8	D.C.	159	75.21
1	JAR	159	4.78
2	D.C.	159	18.78
1	X.O	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
78	D.P. STANDS SINGLES		745.91
KELLY DOWN			10.69
TOTAL			895.00

WT. OF D.C. 13
WT. OF STRING 27

BIT NO.	#3
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	3x 15.9
DEPTH OUT (m)	
DEPTH IN (m)	895
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

BOILER 1 HRS RUN	8	BOILER 2 HRS RUN	8
BOILER 1 pH	10	BOILER 2 pH	10
STACK TEMP	550	STACK TEMP	570

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
815	1130	3.25	11	WIRELINE LOG RUN #3- AIT, TLD, HGNS, CMR, ECS, TLD
1130	1300	1.50	22	PREPARE FLOOR TO TRIP- DEICE TONGS, SLIPS PICK UP PIPE SPINNER CHANGE ELEVATORS
				AND LAY DOWN FOUR 159" DRILL COLLARS
1300	1330	0.50	21	SAFETY MEETING WITH HUSKEY SAFETY REP.
1330	1600	2.50	6	R.I.H FOR CLEAN OUT TRIP FOR LOGGING FLOW CHECKS @ 112m & 454m's

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec BLINDRAMS 6sec
REVIEW JSA- D25(TRIPPING) D21(DOG COLLAR USE) G34(STEAM USE)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				LOGGING	14	1990

EVENING TOUR

BIT RECORD

NO.	BIT	O.D.	LENGTH
1	BIT		0.27
1	BIT SUB	159	0.73
4	D.C.	159	38.14
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
62	D.P. STANDS SINGLES		784.19
KELLY DOWN			9.48
TOTAL			895.00

WT. OF D.C. 13
WT. OF STRING 25

BIT NO.	#3
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	3x 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: 1UP 1DOWN
TORQUE AT BOTTOM: 394
FILL ON BOTTOM (m): 3

MUD RECORD

MUD TYPE	WATER BASED X	OIL BASED
TIME	1800	2000
DENSITY (kg/m3)	1055	1060
FUNNEL VISCOSITY	71	75
FLUID LOSS (cm3)	7	7
pH	9	9

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAL CARB 'O'	25	SX
SODA ASH	1	SX
DRISPAC	4	SX
KELZAN	3	SX
HUMALITE	1	SX
PHPA	1	PAILS

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

BOILER 1 HRS RUN	8	BOILER 2 HRS RUN	8
BOILER 1 pH	10	BOILER 2 pH	10
STACK TEMP	540	STACK TEMP	590

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
770	829	R	100	1.0
877	895	R	100	1.0

CIRCULATION PRESSURE kPa 4478

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	115

REDUCED PUMP SPEED: 1664 @ 60 @ 895

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1730	1.50	6	CONT TO R.I.H
1730	1800	0.50	22	BLOW KELLY W/ AIR
1800	1815	0.25	5	BREAK CIRCULATION
1815	1930	1.25	3	REAM FROM 770m to 829m
1930	2000	0.50	6	CONT. R.I.H. FR 829m TO 877m
2000	2030	0.50	3	BREAK CIRC. AND REAM FR 877m TO 895m
2030	2345	3.25	5	CONDITION MUD & CIRCULATE/WIEGHT UP MUD
2345	2400	0.25	7	RIG SERVICE/FUNCTION CROWN SAVER AND MOTOR KILLS(3SEC)

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- D24 R.I.H D50 INSPECT TONGS D42 P.O.O.H.

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				WORKING ON FLOOR	26	1940

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LO[redacted] L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

(1.) Daily Walk Around Inspection
(2.) Detailed Inspection - Weekly (Using Check List)
(3.) H2S Signs Posted if Required
(4.) Well Licenses & 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.) Meet Inspection before Raising or Lowering
(4.) Crown Saver Checked
(5.) Motor Kills Checked

	GPR	R.M.
	SM	HU
	SM	HU
	SM	HU
	SM	HU
	SM	HU
	SM	HU
	SM	HU
		HU
		HU
		HU
		HU

YEAR	MONTH	DAY
2008	3	16

RIG NO. 14
FUEL @ 08:00 HRS: RIG | BOILER
TEMPERATURE: -28
CURRENT CONDITIONS: CLEAR
WIND DIRECTION: CALM
ROAD CONDITION: ICE

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	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
	DP	102	20.84	X	85	130	4" FH	120	F500	EMSCO	191
	DC	121	69.4	E	55	127	3.5"IF	14	F800	EMSCO	229
	DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	457		
TOUR SHEET SERIAL NUM	AKTA14_20080316_1D		
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2		

CAODC

PASON DATAHUB

CODE HO	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			0.5		5.75	1.5	0.25																			
DAY					2.5	5.25	0.25																			
EVE						3.25	0.25				4.25										0.25					
TOTAL			0.50		8.25	10.00	0.75				4.25										0.25					

TOTALS	SHAKE SCREEN(S)			RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. 1	TYPE DOUBLE LIFE	TYPE				
8.00	SCREENS CHANGED	NO	NEW/USED				
8.00	TOP 50	TOP					
24.00	MIDDLE 50	MIDDLE					
	BOTTOM 50	BOTTOM					

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
8	D.C.	159	75.21
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
78	D.P.	SINGLES	745.91
KELLY DOWN			10.69
TOTAL			895.00
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6
	15 X2
DEPTH OUT (m)	895
DEPTH IN (m)	531
TOTAL DRILLED (m)	364.00
TOTAL HRS RUN	22.50

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN mHR

HOLE CONDITION

HOLE DRAG	1UP 1DOWN
TORQUE AT BOTTOM	465
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE: | WATER BASED: | OIL BASED:

TIME	0100	0300	0610
DENSITY (kg/m3)	1040	1050	1040
FUNNEL VISCOSITY	60	65	74
FLUID LOSS (cm3)	7.5	7.5	7.5
pH	8	8	8

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRISPAC	3	SX
KELZAN	4	SX

SOLIDS CONTROL

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

BOILERS: 1: HRS RUN 8, BOILER pH 10, STACK TEMP 520 | 2: HRS RUN 8, BOILER pH 10, STACK TEMP 540

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
778	790	R	105	1

CIRCULATION PRESSURE kPa: 3975

PUMP NO. 1: LINER SIZE 152, SPM | PUMP NO. 2: LINER SIZE 152, SPM 110

REDUCED PUMP SPEED: 1711 @ 60 @ 895

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0045	0.75	8	CONT. T/R.I.H. FLOW CHECK AND CIRCULATING EVERY 15 JTS.
0045	0115	0.50	3	REAMING HOLE FR 778m TO 790m
0115	0145	0.50	6	R.I.H. FR 790m TO 895m
0145	0730	5.75	5	BREAK CIRC. AND CONDITION MUD
0730	0745	0.25	7	RIG SERVICE/FUNCTION CROWN SAVER AND MOTOR KILLS(3SEC)
0745	0800	0.25	6	P.O.O.H. WITH FLOW CHECKS@ 895m,858m,448m,244m

NOTES: FUCTION HYDRILL(7SEC) PIPE RAMS(5SEC) HCR(3SEC)
REVIEW JSA'S- F16 FUNCTION CROWN SAVER A1 FALL ARREST G36 HAUL GARBAGE

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			WORKING ON FLOOR	28	1990

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
8	D.C.	159	75.21
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
78	D.P.	SINGLES	745.91
KELLY DOWN			10.69
TOTAL			895.00
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6
	15 X2
DEPTH OUT (m)	895
DEPTH IN (m)	531
TOTAL DRILLED (m)	364.00
TOTAL HRS RUN	22.50

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN mHR

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE: | WATER BASED: X | OIL BASED:

TIME	0710	1300	1430
DENSITY (kg/m3)	1040	1040	1050
FUNNEL VISCOSITY	73	70	78
FLUID LOSS (cm3)	7	7	8
pH	8	8	9

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
CAL-CARB	25	SX
SODA ASH	2	SX
CAUSTIC SODA	1	SX
DRISPAC	4	SX
KELZAN	3	SX

SOLIDS CONTROL

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

BOILERS: 1: HRS RUN 8, BOILER pH 10, STACK TEMP 590 | 2: HRS RUN 8, BOILER pH 10, STACK TEMP 580

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa: 4211

PUMP NO. 1: LINER SIZE 152, SPM | PUMP NO. 2: LINER SIZE 152, SPM 110

REDUCED PUMP SPEED: 1845 @ 883 @ 60

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE / FUNCTION CROWN SAVER
815	1030	2.25	6	CONTINUE P.O.O.H
1030	1215	1.75	6	R.I.H FLOW CHECK AT 566m's
1215	1445	2.50	5	CONDITION MUD & CIRCULATE
1445	1600	1.25	6	P.O.O.H TO LOG FLOW CHECKS @881m, 842m, 520m, 150m, 0m's

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4Sec HCR 3sec
REVIEW JSA- D39(RIG UP PIPESPINNER) I1(MIX MUD PRODUCTS) B1(BOILER BLOW DOWN)
TRIP VOLUMES CALC. 1.56m3 MEAS. 2.92m3 DIFF. +1.36m3

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			INSPECT TONGS	28	1990

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
8	D.C.	159	75.21
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
78	D.P.	SINGLES	745.91
KELLY DOWN			10.69
TOTAL			895.00
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6
	15 X2
DEPTH OUT (m)	895
DEPTH IN (m)	531
TOTAL DRILLED (m)	364.00
TOTAL HRS RUN	22.50

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN mHR

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

BOILERS: 1: HRS RUN 8, BOILER pH 10, STACK TEMP 580 | 2: HRS RUN 8, BOILER pH 10, STACK TEMP 570

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa:

PUMP NO. 1: LINER SIZE 152, SPM | PUMP NO. 2: LINER SIZE 152, SPM

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
1615	1930	3.25	6	CONT. TO P.O.O.H FUNCTION BLINDRAM-2SEC.CLOSED
1930	1945	0.25	21	SAFETY MEETING W/CREW AND LOGGERS
1945	0	4.25	11	RIG TO AND RUN WIRELINE LOGS (RUN #1)
				TAGGED@ 888m @ 2134hrs. RUN #1 FMI,DSI,PPC,HNGS,GR
				RUN #2 AIT,TLD,HGNS,CMR,ECS,TLD
				TRIP VOLUMES CALC. 3.67m3 MEAS. 7.11m3 DIFF +3.44m3

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3Sec BLINDRAMS 4Sec
REVIEW JSA- A-15(WIRELINE LOGS) G-13(OPERATING TUGGER) G-25(FUELING CREW TRUCK)

SPECIAL EVENT			SAFETY TOPIC	MEHL	MACP
TIME / DEPTH			WIRELINE LOGS		1990

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	16

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	2

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		JASON MCINTOSH	8.00			JM
LEASE HAND		MIKE STRANG	8.00			MS

RATE SCHEDULE: X | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 2
DRIVERS: MIKE STRANG

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		MARK CLIFFORD T3	12.00			MC
DERRICK HAND		JONOTHON SLEDZ	12.00			JS
MOTOR HAND		DWAYNE PACKER	12.00			DP
FLOOR HAND		STANLEY GRAHAM	12.00			SG
LEASE HAND	EL.	GERRY MORASH	12.00			GM
LEASE HAND		CHARLES GULLY	12.00			CG
W.S.S.C.		TONY OGILVIE	12.00			TO

RATE SCHEDULE: X | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 2
DRIVERS:

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		J.D. HINKLEY	4.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND		LAMONT LESLIE	4.00			LL
FLOOR HAND		JASON MCINTOSH	4.00			JM
LEASE HAND		MIKE STRANG	4.00			MS

RATE SCHEDULE: X | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 2
DRIVERS: MIKE STRANG

LICENCE NO.	WELL NAME & NO
	HUSKY et al Keele River L-52
OPERATOR: HUSKY OIL OPERATIONS LIMITED	CONTRACTOR NAME: AKITA DRILLING LTD.
SURFACE LOCATION: L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: HALLOCK / UNRAU

DAILY CHECKS

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

YEAR	MONTH	DAY
2008	3	15

RIG NO. 14

FUEL @ 04:00 HRS: RIG ____ BOILER ____

TEMPERATURE: -28

CURRENT CONDITIONS: CLEAR

WIND DIRECTION: CALM

ROAD CONDITION: ICE

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)

DO/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DP	102	20.84	X	85	130	4" FH	120	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5"IF	14	F800	EMSCO	229
DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	457		
TOUR SHEET SERIAL NUM	AKTA14_20080315_1D		
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2		

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		1.5			4.0	2.25				0.25																
DAY					5.25	2.5	0.25																			
EVE					5.25	2.25	0.25														0.25					
TOTAL		1.50			14.50	7.00	0.50			0.25											0.25					

TOTALS	SHALE SHAKER(S) NO.	TYPE DOUBLE LIFE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
8.00	SCREENS CHANGED NO	NEW/USED					
8.00	50	TOP 50	TOP				
8.00	50	MIDDLE	MIDDLE				
24.00	50	BOTTOM	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	15

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
RIG MANAGER: HALLOCK / UNRAU	RIG NO. 14
PROVINCE: N.W.T.	CAMP: [X] YES [ ] NO — RIG SAFETY DAYS: 1

MORNING TOUR — FROM: 0 TO: 800

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
8	D.C.	159	75.21
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
78	D.P.	SINGLES	745.91
KELLY DOWN			10.69
TOTAL			895.00
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO	2		
SIZE	216		
IADC CODE			
MANUFACTURER	SMITH		
TYPE	M 516 BHVPX		
SERIAL NO.	SOA586		
JETS	16	X6	
	15	X2	
DEPTH OUT (m)	895		
DEPTH IN (m)	531		
TOTAL DRILLED (m)	364.00		
TOTAL HRS RUN	22.00		

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

HOLE CONDITION: HOLE DRAG 1UP 1DOWN; TORQUE AT BOTTOM 1566; FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE		WATER BASED [X]	OIL BASED [ ]
TIME	0130	0345	0545
DENSITY (kg/m3)	1040	1040	1030
FUNNEL VISCOSITY	65	82	82
FLUID LOSS (cm3)	7	7	7
pH	8	8	8

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
LIGNITE	2	SX
DRISPAC	2	SX
KELZAN	2	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1040	1020	1470

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

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10	10
STACK TEMP	420	430

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
5285	152	120		

REDUCED PUMP SPEED: 2004 @ 60 @ 895

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
884	1.5	W/L

DRILLER SIGNATURE: J.D. HINKLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
885	895	D	100	2.0

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0130	1.50	2	DRILL 215mm HOLE FR 885m TO 895m
0130	0345	2.25	5	CONDITION MUD & CIRCULATE
0345	0400	0.25	10	DEVIATION SURVEY
0400	0500	1.00	6	10JT. WIPER TRIP WITH FLOW CHECKS @ 895m,858m
				HOLE FILL VOLUMES-CALC.0.26m3 MEAS.0.27m3 DIFF.0.01m3
0500	0645	1.75	5	CONDITION MUD & CIRCULATE
0645	0800	1.25	6	P.O.O.H. T/CSG. SHOE WITH FLOW CHECKS@ 895m,858m,448m,243m

NOTES: FUNCTION HYDRILL(7SEC) PIPE RAMS(5SEC) HCR(3SEC)
REVIEW JSA'S D50 INSPECT TONGS G42 LOADER OPERATION G33 RIG SERVICE

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MBL	MACP
KICK WARNING SIGNS	28	1990

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 1 — DRIVERS: MIKE STRANG

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		JASON MCINTOSH	8.00			JM
LEASE HAND		MIKE STRANG	8.00			MS

-8-4FU

DAY TOUR — FROM: 800 TO: 1600

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
8	D.C.	159	75.21
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	0.26
4	D.C	121	38.09
1	X.O.	121	0.30
	D.P.	STANDS	
78	D.P.	SINGLES	745.91
KELLY DOWN			10.69
TOTAL			895.00
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO	2		
SIZE	216		
IADC CODE			
MANUFACTURER	SMITH		
TYPE	M 516 BHVPX		
SERIAL NO	SOA586		
JETS	16	X6	
	15	X2	
DEPTH OUT (m)	895		
DEPTH IN (m)	531		
TOTAL DRILLED (m)	364.00		
TOTAL HRS RUN	22.00		

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 [X]	OIL BASED [ ]
TIME	1330		
DENSITY (kg/m3)	1050		
FUNNEL VISCOSITY	57		
FLUID LOSS (cm3)	7		
pH	8		

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	8
BOILER pH	10	10
STACK TEMP	540	570

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
910	152			60

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1030	2.50	6	CONTINUE P.O.O.H
1030	1045	0.25	7	RIG SERVICE / FUNCTION CROWN SAVER
1045	1600	5.25	5	CIRCULATE- WAIT ON ORDERS
1600				

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- F13(TRIPING UP IN DERRICK) E2(CHANGE LIGHT BULBS) G38(WASH RIG)
TRIP VOLUMES CALC1.74m3 MEAS. 3.68m3 DIFF. +1.94m3

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MBL	MACP
USING STEAM	27	1990

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 1 — DRIVERS:

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	12.00			MC
DERRICK HAND		JONOTHON SLEDZ	12.00			JS
MOTOR HAND		DWAYNE PACKER	12.00			DP
FLOOR HAND		STANLEY GRAHAM	12.00			SG
LEASE HAND		GERRY MORASH	12.00			GM
LEASE HAND		CHARLES GULLY	12.00			CG
W.S.S.C.		TONY OGILVIE	12.00			TO

-8-4FU

EVENING TOUR — FROM: 1600 TO: 2400

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	0.27
1	BIT SUB	159	0.73
8	D.C	159	75.21
1	JAR	159	4.76
2	D.C	159	18.78
1	X.O.	159	0.26
4	D.C	121	38.09
1	X.O	121	0.30
	D.P	STANDS	
78	D.P	SINGLES	745.91
KELLY DOWN			10.69
TOTAL			895.00
WT OF D.C	13		
WT OF STRING	27		

BIT RECORD

BIT NO	2		
SIZE	216		
IADC CODE			
MANUFACTURER	SMITH		
TYPE	M 516 BHVPX		
SERIAL NO	SOA586		
JETS	16	X6	
	15	X2	
DEPTH OUT (m)	895		
DEPTH IN (m)	531		
TOTAL DRILLED (m)	364.00		
TOTAL HRS RUN	22.00		

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 [X]	OIL BASED [ ]
TIME	1930	2130	
DENSITY (kg/m3)	1020	1020	
FUNNEL VISCOSITY	56	65	
FLUID LOSS (cm3)	7	7	
pH	8	8	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRISPAC	2	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1010	1000	1420

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

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10.5	10
STACK TEMP	540	570

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
4656	152			120

REDUCED PUMP SPEED: 1640 @ 60 @ 704

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

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/ FUNCTION CROWN SAVER
1615	2130	5.25	5	CIRCULATE- WAIT ON ORDERS
2130	2145	0.25	21	B.O.P. DRILL W/CREW
2145	2400	2.25	6	WELL FLOWING-A LITTLE R.I.H. TO BTTM. FLOW CHECK AND FILL PIPE EVERY 15 JTS.
				CHK FLOW@485M

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA-G44 CIRCULATING D24 R.I.H. J5 POP VALVE FUNCTION

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MBL	MACP
KICK WARNING SIGNS	24	1990

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 1 — DRIVERS: MIKE STRANG

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	4.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND		LAMONT LESLIE	4.00			LL
FLOOR HAND		JASON MCINTOSH	4.00			JM
LEASE HAND		MIKE STRANG	4.00			MS

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-5[redacted]	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

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

YEAR	MONTH	DAY
2008	3	14

RIG NO. 14
RIG: FUEL @ 06:00 HRS: BOILER
TEMPERATURE: -27
CURRENT CONDITIONS: CLOUDY
WIND DIRECTION: N.W.
ROAD CONDITION: ICE

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	220.5	69.94	TENARUS	L-80	18	252.19	4.25	252

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO of JOINTS
DP	102	20.84	X	85	130	4"FH	120
DC	121	69.4	E	55	127	3.5"IF	14
DC	159	134.66	E	80	159	4.5XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	4.11
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080314_1C
VENDOR SOFTWARE VERSION	EDR 3-2-8_HF1 ETS 2.2

CAODC

PASON DATAHUB

CODE HOURS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	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.	DRILL&STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING					
MORN					1.0	6.5					0.25										0.25					
DAY					0.25	4.75	0.25				2.75															
EVE		6.0			1.25		0.5														0.25					
TOTAL		6.00			2.50	11.25	0.75				3.00										0.50					

TOTALS	SUCKER SHAFT(S)			RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. 1	TYPE DOUBLE LIFE	TYPE				
8.00	SCREENS CHANGED	NO	NEW USED				
8.00	TOP 50	TOP					
24.00	MIDDLE 50	MIDDLE					
	BOTTOM 50	BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	14

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	11

MORNING TOUR (FROM 0 TO 800)

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	10.00	4-12		JS
DERRICK HAND		JAKE HINKLEY	10.00			JH
MOTOR HAND		ADAM MATTIES	10.00			AM
FLOOR HAND		TROY LAMBERT	10.00			TL
LEASE HAND		BRANDON DONNELLY	10.00			BD

RATE SCHEDULE: X REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 11
DRIVERS: GERRY MORASH

DAY TOUR (FROM 800 TO 1600)

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	12.00			MC
DERRICK HAND		JONOTHON SLEDZ	12.00			JS
MOTOR HAND		DWAYNE PACKER	12.00			DP
FLOOR HAND		STANLEY GRAHAM	12.00			SG
LEASE HAND		GERRY MORASH	12.00			GM
W.S.S.C.		TONY OGILVIE	12.00			TO

RATE SCHEDULE: X REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 11
DRIVERS:

EVENING TOUR (FROM 1600 TO 2400)

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	4.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND		LAMONT LESLIE	4.00			LL
FLOOR HAND		JASON MCINTOSH	4.00			JM
LEASE HAND		MIKE STRANG	4.00			MS

RATE SCHEDULE: X REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 11
DRIVERS: MIKE STRANG

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT		27
1	VIRTITRAK	181	9.39
1	FILTER SUB	178	1.67
1	FLOAT SUB	158	.68
1	ROLLER REAMER	216	1.35
1	D.C.	159	9.4
1	P.B.L. SUB	158	2.66
7	D.C.	159	65.61
1	JAR	168	4.78
2	D.C.	159	18.75
1	X.O.	159	.26
4	D.C.	121	38.09
1	X.O.	121	30
	D.P. STANDS		
70	D.P. SINGLES		669.28
KELLY DOWN			7.33
TOTAL			830.00
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6; 15 X2
DEPTH OUT (m)	830
DEPTH IN (m)	531
TOTAL DRILLED (m)	299.00
TOTAL HRS RUN	16

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: 566
FILL ON BOTTOM (m): 5

MUD RECORD

MUD TYPE	WATER BASED [X] OIL BASED [ ]
TIME	0100
DENSITY (kg/m3)	1060
FUNNEL VISCOSITY	88
FLUID LOSS (cm3)	
pH	8

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	HRS RUN	8	
BOILER pH	10.5	BOILER pH	10.5	
STACK TEMP	515	STACK TEMP	595	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa: 9310
PUMP NO. 1: LINER SIZE 152, SPM
PUMP NO. 2: LINER SIZE 152, SPM 130
REDUCED PUMP SPEED: 2215 @ 65 @ 830

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0000	0045	0.75	6	R.I.H AFTER WIPER TRIP FLOW CHECKS @ 498m, 661m, 824m.
0045	0145	1.00	5	CONDITION MUD & CIRCULATE
0145	730	5.75	6	P.O.O.H. FOR LOGS FLOW CHECKS @ 821m 785m, 412m, 163m, 0m
				LAY DOWN DIRECTIONAL TOOLS AND CLEAR THE CATWALK FOR LOGGERS
730	745	0.25	21	SAFETY MEETING WITH RIG CREW AND LOGGERS
745	800	0.25	11	RIG TO AND WIRELINE LOG

5

8-4

NOTES: FUNCTION TEST CROWN SAVER, HYDRIL (7sec), PIPE RAMS (4sec), HCR (3sec)
FUNCTION MOTOR KILLS, AND AIRHORN
REVIEW JSA- D-22 (OPERATE DRILLERS CONSOLE), F-12 (CLIMB DERRICK), D-47(P.O.O.H)
EXTRA HOURS FPR PRETOUR MERETINGS

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MBHL	MACP
	CREW FATUIGE	26	1960

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT		27
1	BIT SUB	159	.73
8	D.C.	159	75.21
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	.26
4	D.C.	121	38.09
1	X.O.	121	.30
	D.P. STANDS		
70	D.P. SINGLES		669.28
KELLY DOWN			11.27
TOTAL			818.95
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6; 15 X2
DEPTH OUT (m)	830
DEPTH IN (m)	531
TOTAL DRILLED (m)	299.00
TOTAL HRS RUN	16

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	1830
DENSITY (kg/m3)	1060
FUNNEL VISCOSITY	82
FLUID LOSS (cm3)	
pH	8

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
KELZAN	1	SX
SODA ASH	1	SX
DRISPAC	1	SX
HUMALITE	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

BOILERS

	1		2	
HRS RUN	8	HRS RUN	8	
BOILER pH	10	BOILER pH	10	
STACK TEMP	570	STACK TEMP	660	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa:
PUMP NO. 1: LINER SIZE, SPM
PUMP NO. 2: LINER SIZE 152, SPM
REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	815	0.25	7	RIG SERVICE / FUNCTION CROWN SAVER
815	930	1.25	11	CONTINUE WIRELINE LOGS
930	1100	1.50	11	RIG OUT WIRELINE LOGERS
1100	1545	4.75	6	PREPARE TO AND R.I.H
1545	1800	0.25	5	BREAK CIRCULATION

6

8-4

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec BLINDRAMS 5sec HCR 3sec
REVIEW JSA- D31(RIG IN WIRELINE LOGS) D24(R.I.H) (OPERATE PIPE TUBS)

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MBHL	MACP
	LOGGING	23	1960

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT		27
1	BIT SUB	159	.73
8	D.C.	159	75.21
1	JAR	159	4.76
2	D.C.	159	18.78
1	X.O.	159	.26
4	D.C.	121	38.09
1	X.O.	121	.30
	D.P. STANDS		
77	D.P. SINGLES		736.26
KELLY DOWN			11.27
TOTAL			885.93
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2rr
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6; 15 X2
DEPTH OUT (m)	885
DEPTH IN (m)	830
TOTAL DRILLED (m)	55.00
TOTAL HRS RUN	22.00

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

HOLE CONDITION
HOLE DRAG: 1 up 1 dwn
TORQUE AT BOTTOM: 2286
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE	WATER BASED [X] OIL BASED [ ]		
TIME	1930	2030	2300
DENSITY (kg/m3)	1060	1030	1040
FUNNEL VISCOSITY	75	80	77
FLUID LOSS (cm3)	7	6.5	6.5
pH	8.5	8.5	8.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
PHPA	1	PAILS

SOLIDS CONTROL
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY
8 | 1040 | 1030 | 1470
HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY

BOILERS

	1		2	
HRS RUN	8	HRS RUN	8	
BOILER pH	10	BOILER pH	10	
STACK TEMP	570	STACK TEMP	560	

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
830	885	D	120	2

CIRCULATION PRESSURE kPa: 5012
PUMP NO. 1: LINER SIZE 152, SPM 120
PUMP NO. 2: LINER SIZE 152, SPM 100
REDUCED PUMP SPEED: 1916 @ 60 @ 885

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE / FUNCTION CROWN SAVER
1615	1730	1.25	5	WASH TO BOTTOM
1730	2330	6.00	2	DRILL 216mm HOLE FR 830m to 885m
2330	2345	0.25	21	B.O.P. DRILL W/CREW WELL SECURE IN 42 SEC
2345	2400	0.25	7	RIG SERVICE/FUNCTION CROWN SAVER AND MOTOR KILLS(3SEC)

5

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA-G34 STEAM UISE G44 CIRCULATING D26 MAKING CONNECTIONS

SPECIAL EVENT / TIME / DEPTH	SAFETY TOPIC	MBHL	MACP
	MAKING CONNECTIONS	28	1990

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

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

YEAR	MONTH	DAY
2008	3	13

RIG NO.	RIG	BOILER
14		

FUEL CONSUMPTIONS

TEMPERATURE	CURRENT CONDITIONS	WIND DIRECTION	ROAD CONDITION
-20	CLOUDY	N.E.	ICE

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	220.5	69.94	TENARUS	L-80	18	252.19	4.25	252

DD/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DP	102	20.84	X	85	130	4"FH	120
DC	121	69.4	E	55	127	3.5"IF	14
DC	159	134.66	E	60	159	4.5XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG	4.11	OP. FUEL	
CONTRACTOR'S JOB NUM	457		
TOUR SHEET SERIAL NUM	AKTA14_20080313_1E		
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2		

CAODC

PASON DATAHUB

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	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	CIRC. TIME	AT CONNEC			
MORN		5.75					0.25															2.0				
DAY		8.5					0.25	1.25																		
EVE		4.25			1.0	2.5	0.25																			
TOTAL		16.50			1.00	2.50	0.75	1.25														2.00				

TOTALS	SHALE SHAKER(S)			RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO. 1	TYPE DOUBLE LIFE	TYPE				
8.00	SCREENS CHANGED	NO	NEW USED				
8.00	50	TOP	TOP				
24.00	50	MIDDLE	MIDDLE				
	50	BOTTOM	BOTTOM				

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	27
1	VIRTITRAK	181	9.39
1	FILTER SUB	178	1.67
1	FLOAT SUB	158	.68
1	ROLLER REAMER	216	1.35
1	D.C.	159	9.4
1	P.B.L. SUB	158	2.66
7	D.C.	159	65.81
1	JAR	168	4.76
2	D.C.	159	18.75
1	X.O.	159	.26
4	D.C.	121	38.09
1	X.O.	121	30
	D.P.	STANDS	
54	D.P.	SINGLES	515.70
KELLY DOWN			3.03
TOTAL			872.12
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6 / 15 X2
DEPTH OUT (m)	
DEPTH IN (m)	531
TOTAL DRILLED (m)	141
TOTAL HRS RUN	9.5

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

HOLE CONDITION

HOLE DRAG	1 up 1 dwn
TORQUE AT BOTTOM	0
FILL ON BOTTOM (m)	

MUD RECORD

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

TIME	0200	0330	0530
DENSITY (kg/m3)	1035	1040	1040
FUNNEL VISCOSITY	53	51	52
FLUID LOSS (cm3)	8.5	8.5	8.5
pH	7	9	9

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRISPAC	2	SX
KELZAN	3	SX
HIGHPERM	1	PAILS
CAUSTIC SODA	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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	590	STACK TEMP	670

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
578	672	D	0	3

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9725	152		152	120

REDUCED PUMP SPEED: 2283 @ 670 @ 60

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
553	.02	
583	.07	
613	.21	
643	.20	

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0045	0.75	2	DRILL 216mm HOLE FR 578m to 584m
0045	100	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
100	600	5.00	2	DRILL 216mm HOLE FR 584m to 672m
600	800	2.00	22	WORK PIPE AND CONNECTIONS

NOTES: FUNCTION HYDRIL 6sec PIPRAMS 4sec HCR 3sec
REVIEW JSA- G34(STEAM USE) G42(LOADER OPERATION) G13(OPERATE TUGGER)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				BOILER BLOWDOWN	27	1990

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	27
1	VIRTITRAK	181	9.39
1	FILTER SUB	178	1.67
1	FLOAT SUB	158	.68
1	ROLLER REAMER	216	1.35
1	D.C.	159	9.4
1	P.B.L. SUB	158	2.66
7	D.C.	159	65.81
1	JAR	168	4.76
2	D.C.	159	18.75
1	X.O.	159	.26
4	D.C.	121	38.09
1	X.O.	121	30
	D.P.	STANDS	
64	D.P.	SINGLES	611.68
KELLY DOWN			11.27
TOTAL			776.34
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6 / 15 X2
DEPTH OUT (m)	
DEPTH IN (m)	531
TOTAL DRILLED (m)	245.00
TOTAL HRS RUN	16

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

HOLE CONDITION

HOLE DRAG	1 UP 1 DOWN
TORQUE AT BOTTOM	0
FILL ON BOTTOM (m)	

MUD RECORD

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

TIME	0900	1230	
DENSITY (kg/m3)	1050	1060	
FUNNEL VISCOSITY	56	58	
FLUID LOSS (cm3)	7.5	7	
pH	8.5	8.5	

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRISPAC	2	SX
HUMALITE	2	SX
HIGHPERM	2	PAILS
CAL CARB 'O'	5	SX
CAL CARB 325	5	SX
SAWDUST	15	SX
PHPA	1	PAILS
KELZAN	1	SX

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1060	1040	1490
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	8
BOILER pH	10.5	BOILER pH	10.5
STACK TEMP	460	STACK TEMP	510

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
672	776	D	0	3.5

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
9605	152		152	130

REDUCED PUMP SPEED: 2615 @ 65 @ 756

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
673	0.15	
703	0.65	
733	.72	

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	0900	1.00	2	DRILL 216mm HOLE FROM 672m TO 690m.
0900	0915	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
0915	1030	1.25	2	DRILL 216mm HOLE FROM 690M TO 710m
1030	1145	1.25	8	REPAIR WASH HOLE IN STANDPIPE
1145	1600	4.25	2	DRILL 216mm HOLE FROM 710m TO 776m

NOTES: FUNCTION AIRHORN, MOTOR KILLS, HYDRIL (7sec), PIPE RAMS (4sec)
HCR (3sec)
REVIEW JSA- C-5 (OPERATING PIPE TUBS), D-44 (MAKING CONNECTIONS), D-44 (SLIPS AND ELEVATOR MAINTANCE)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				PINCH POINTS	28	1940

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH
1	BIT	O.D.	27
1	VIRTITRAK	181	9.39
1	FILTER SUB	178	1.67
1	FLOAT SUB	158	.68
1	ROLLER REAMER	216	1.35
1	D.C.	159	9.4
1	P.B.L. SUB	158	2.66
7	D.C.	159	65.81
1	JAR	168	4.76
2	D.C.	159	18.75
1	X.O.	159	.26
4	D.C.	121	38.09
1	X.O.	121	.30
	D.P.	STANDS	
70	D.P.	SINGLES	669.28
KELLY DOWN			7.33
TOTAL			830.00
WT. OF D.C.	13		
WT. OF STRING	27		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6 / 15 X2
DEPTH OUT (m)	830
DEPTH IN (m)	531
TOTAL DRILLED (m)	299.00
TOTAL HRS RUN	16

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

HOLE CONDITION

HOLE DRAG	1 up 1 dwn
TORQUE AT BOTTOM	0
FILL ON BOTTOM (m)	

MUD RECORD

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

TIME	1600	1800	2115
DENSITY (kg/m3)	1050	1050	1055
FUNNEL VISCOSITY	67	78	77
FLUID LOSS (cm3)	7	8	6
pH	8	6	8

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
HIGHPERM	1	PAILS
DRISPAC	5	SX
KELZAN	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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	580	STACK TEMP	620

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
776	830	D	0	3

CIRCULATION PRESSURE kPa	PUMP NO. 1 LINER SIZE	PUMP NO. 1 SPM	PUMP NO. 2 LINER SIZE	PUMP NO. 2 SPM
8883	152		152	130

REDUCED PUMP SPEED: 2115 @ 65 @ 830

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
763	.59	
823	.12	

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	2	DRILL 216mm HOLE FR 776m to 785m
1615	1630	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
1630	2030	4.00	2	DRILL 216mm HOLE FR 785m to 830m
2030	2130	1.00	5	CONDITION MUD & CIRCULATE
2130	2400	2.50	6	WIPER TRIP TO 500m's FLOW CHECK'S @ 821m, 803m, 660m, 498m.

HOLE FILL VOL = MEAS 2.77m3, CALC 0.91m3, DIFF +1.86m3

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- D50(INSPECT TONGS) G44(CIRCULATING) D43(P O O H)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				BLOW LINES WITH AIR	28	1940

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	13

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	[X] YES [ ] NO	10

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	8.00			MC
DERRICK HAND		JONOTHON SLEDZ	8.00			JS
MOTOR HAND		DWAYNE PACKER	8.00			DP
FLOOR HAND		STANLEY GRAHAM	8.00			SG
LEASE HAND		GERRY MORASH	8.00			GM

RATE SCHEDULE: X | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 10
DRIVERS: GERRY MORASH

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	8.00			JS
DERRICK HAND		JAKE HINKLEY	8.00			JH
MOTOR HAND		ADAM MATTIES	8.00			AM
FLOOR HAND		TROY LAMBERT	8.00			TL
LEASE HAND		BRANDON DONNELLY	8.00			BD
W.S.S.C.		TONY OGILVIE	12.00			TO

RATE SCHEDULE: X | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 10
DRIVERS:

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	8.00			MC
DERRICK HAND		JONOTHON SLEDZ	8.00			JS
MOTOR HAND		DWAYNE PACKER	8.00			DP
FLOOR HAND		STANLEY GRAHAM	8.00			SG
LEASE HAND		GERRY MORASH	8.00			GM

RATE SCHEDULE: X | REGULAR | REPAIR | INVERT
CREW SAFETY DAYS: 10
DRIVERS: GERRY MORASH

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

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

YEAR 2008 MONTH 3 DAY 12
RIG NO. 14
FUEL on 0% DOUTURS
RIG BOILER

TEMPERATURE -25
CURRENT CONDITIONS COLD
WIND DIRECTION S.W.
ROAD CONDITION ICE

LAST CASING RUN	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
SURFACE CASING	244.5	220.5	69.94	TENARUS	L-80	18	252.19	4.25	252

DRILL STRING	DC/ DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
	DP	102	20.84	X	85	130	4"FH	125
	DC	121	69.4	E	55	127	3.5"IF	14
	DC	159	134.66	E	60	159	4.5XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RS-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	4.11
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080312_1E
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2

PASON DATAHUB

CODE HO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	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					
MORN				2.75	0.5	4.25	0.25														0.25					
DAY				1.75		4.0		2.0													0.25					
EVE		3.75	1.25			1.75		0.75												0.25	0.25					
TOTAL		3.75	1.25	4.50	0.50	10.00	0.25	2.75												0.25	0.75					

	TOTALS
MORN	8.00
DAY	8.00
EVE	8.00
	24.00

SHOE SPECIMEN: NO. 1 TYPE DOUBLE LIFE TYPE; SCREENS CHANGED NO; NEW/USED; TOP 50; MIDDLE 50; BOTTOM 50

REMARKS / SERVICES — MORN | DAY | EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	12

OPERATOR: HUSKY OIL OPERATIONS LIMITED — CONTRACTOR NAME: AKITA DRILLING LTD.
RIG MANAGER: HALLOCK / UNRAU — RIG NO. 14
PROVINCE: N.W.T. — CAMP: X YES ☐ NO — RIG SAFETY DAYS: 9

MORNING TOUR — FROM 0 TO 800

NO.	DRILLING ASSEMBLY LAYED OUT TODAY		LENGTH
1	BIT	O.D.	0.28
1	CORE BARREL		10.43
1	JAR		2.12
1	DOUBLE PIN		.27
1	BIT SUB		.73
10	D.C.	159	93.96
1	X.O.		.26
4	D.C.	121	38.09
1	X.O.		.30
1	PUP JOINT.		1.53
	D.P.	STANDS	
40	D.P.	SINGLES	381.26
KELLY DOWN			11.27
TOTAL			540.48
WT. OF D.C.	13		
WT. OF STRING	23		

BIT RECORD

BIT NO.	2
SIZE	171
IADC CODE	
MANUFACTURER	HUGHES
TYPE	C22
SERIAL NO.	7113946
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	531
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	1 up 1 dwn
TORQUE AT BOTTOM	610
FILL ON BOTTOM (m)	1

MUD RECORD

MUD TYPE: — WATER BASED: X — OIL BASED: ☐

TIME	0500	0530
DENSITY (kg/m3)	1030	1030
FUNNEL VISCOSITY	74	68
FLUID LOSS (cm3)	9	9
pH	7	7

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DESCO II	5	SX
SAWDUST	5	SX
CAL CARB 'O'	5	SX
CAL CARB 325	5	SX
DRISPAC	1	SX
HUMALITE	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	8
BOILER pH	10	10
STACK TEMP	620	700

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
540		C	50	2

CIRCULATION PRESSURE kPa: 2942

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	60

REDUCED PUMP SPEED: 2942 @ 60 @ 540

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	015	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
015	030	0.25	21	SAFETY MEETING W/ BACKER- RECOVER CORE
030	130	1.00	4	RECOVER CORE #1 CUT 8.8m - RECOVERED 8.8m
130	400	2.50	6	R.I.H TO CUT CORE #2
400	415	0.25	5	BREAK CIRCULATION
415	600	1.75	4	CUT CORE # 2 FR 540.02m's to 540.70m's
600	615	0.25	5	CONDITION MUD & CIRCULATE - PREPARE TO TRIP
615	800	1.75	6	P.O.O.H TO CHECK CORE BARREL FLOW CHECKS @ 529, 514, 346, 155, 0m's

5

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- D46(USE DOG COLLARS) G25(FUEL CREW TRUCK) G36(HAUL GARBAGE)

SPECIAL EVENT / TIME / DEPTH:

SAFETY TOPIC	MEN.	MACP
OPERATE PIPESPINNER	24	2039

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 9 — DRIVERS: GERRY MORASH

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	8.00			MC
DERRICK HAND		JONOTHON SLEDZ	8.00			JS
MOTOR HAND		DWAYNE PACKER	8.00			DP
FLOOR HAND		STANLEY GRAHAM	8.00			SG
LEASE HAND		GERRY MORASH	8.00			GM

-8-4 FL

DAY TOUR — FROM 800 TO 1600

NO.	DRILLING ASSEMBLY LAYED OUT TODAY		LENGTH
1	BIT	O.D.	
1	VIRTITRAK	181	9.39
1	FILTER SUB	176	1.67
1	FLOAT SUB	158	.68
1	ROLLER REAMER	216	1.35
1	D.C.	159	9.4
1	P.B.L. SUB	158	2.66
7	D.C.	159	65.81
1	JAR	168	4.76
2	D.C.	159	18.75
1	X.O.	159	.26
4	D.C.	121	38.09
1	X.O.	121	.30
	D.P.	STANDS	
	D.P.	SINGLES	
KELLY DOWN			
TOTAL			153.12
WT. OF D.C.	13		
WT. OF STRING	25		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6; 15 X2
DEPTH OUT (m)	
DEPTH IN (m)	531
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	1 UP 1 DOWN
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
8	1030	1020	1560
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10.5	10.5
STACK TEMP	430	465

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa: 8884

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	120

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	0930	1.50	6	CONTINUE TO P.O.O.H. TO CHECK CORE BARREL FLOW CHECKS @ 252m 0m
				HOLEFILL= MEAS 5.3m3, CALC 2.68m3, DIFF +2.62m3
0930	0945	0.25	21	SAFETY MEETING WITH RIG CREW AND CORE HAND
0945	1130	1.75	4	RECOVER CORE # 2
1130	1330	2.00	8	REPAIR BLOWN PISTON GASKET ON ACCUMULATOR PUMP. CLEAN UP SPILL
1330	1600	2.50	6	R.I.H WITH VERTITRAK AND BIT #3 FLOW CHECKS @ 0m 258m, 536m.
1600				
				MEETING WITH NATIONAL ENERGY BOARD WITH AKITA 14 PERSONAL.
				INSPECTION WAS UP TO STANDARD .

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NOTES: FUNCTIONED CROWN SAVER, MOTOR KILLS, AIR HORN, HYDRIL (7sec), HCR (3sec)
PIPE RAMS 4(sec), BLIND RAMS (5sec)
REVIEW JSA-I-1 (MIXING MUD PRODUCTS), F-18 (CHECK CROWN SAVER), G-35 (HANDLING OIL DRUMS)

SPECIAL EVENT / TIME / DEPTH:

SAFETY TOPIC	MEN.	MACP
GAS DETECTION	23	2010

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 9 — DRIVERS:

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	12.00			JS
DERRICK HAND		JAKE HINKLEY	12.00			JH
MOTOR HAND		ADAM MATTIES	12.00			AM
FLOOR HAND		TROY LAMBERT	12.00			TL
LEASE HAND		BRANDON DONNELLY	12.00			BD
W.S.S.C.		TONY OGILVIE	12.00			TO

-8-4 FL

EVENING TOUR — FROM 1600 TO 2400

NO.	DRILLING ASSEMBLY LAYED OUT TODAY		LENGTH
1	BIT	O.D.	.27
1	VIRTITRAK	181	9.39
1	FILTER SUB	176	1.67
1	FLOAT SUB	158	.68
1	ROLLER REAMER	216	1.35
1	D.C.	159	9.4
1	P.B.L. SUB	158	2.66
7	D.C.	159	65.81
1	JAR	168	4.76
2	D.C.	159	18.75
1	X.O.	159	.26
4	D.C.	121	38.09
1	X.O.	121	.30
	D.P.	STANDS	
44	D.P.	SINGLES	419.74
KELLY DOWN			5.21
TOTAL			578.34
WT. OF D.C.	13		
WT. OF STRING	25		

BIT RECORD

BIT NO.	2
SIZE	216
IADC CODE	
MANUFACTURER	SMITH
TYPE	M 516 BHVPX
SERIAL NO.	SOA586
JETS	16 X6; 15 X2
DEPTH OUT (m)	
DEPTH IN (m)	531
TOTAL DRILLED (m)	47.00
TOTAL HRS RUN	3.75

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

HOLE CONDITION

HOLE DRAG	1 up 1 dwn
TORQUE AT BOTTOM	0
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE: — WATER BASED: X — OIL BASED: ☐

TIME	1730	2000	2330
DENSITY (kg/m3)	1030	1030	1030
FUNNEL VISCOSITY	58	48	45
FLUID LOSS (cm3)	8	8	8.5
pH	7	7	7

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRISPAC	2	SX
HUMALITE	2	SX
HIGHPERM	1	SX
CAL CARB 'O'	5	SX
CAL CARB 325	1	SX
KELZAN	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

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10	10
STACK TEMP	5802	620

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
531	540	C	0	2
540	578	D	0	1.5

CIRCULATION PRESSURE kPa: 9365

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	120

REDUCED PUMP SPEED: 2047 @ 60 @ 578

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	20	ORIENTATE TOOLS
1615	1700	0.75	8	R.I.H. WITH VERTATRAK
1700	1815	1.25	3	REAM RATHOLE FROM 537m TO 540m
1815	2100	2.75	2	DRILL 216mm HOLE FROM 540m TO 568m,STANDPIPE SPRUNG LEAK IN CELLAR,GO GET WELD
2100	2145	0.75	6	BLOW KELLY /W AIR AND PULL 3 SINGLES OFF BOTTOM TO GET READY TO WELD STAND PIPE
2145	2200	0.25	21	SAFETY MEETING w/WELDER
2200	2245	0.75	8	REPAIR RIG- WELD STAND PIPE
2245	2300	0.25	6	RUN IN THREE SIGLES TO GO BACK DRILLING
2300	2400	1.00	2	DRILL 216mm HOLE FR 568m to 578m

NOTES: FUNCTION CROWN SAVER FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- A5(LOCK OUT) D8(GREASE WASHPIPE) G38(WASH RIG)

SPECIAL EVENT / TIME / DEPTH:

SAFETY TOPIC	MEN.	MACP
ROLLING PIPE	26	1990

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 9 — DRIVERS: GERRY MORASH

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	4.00			MC
DERRICK HAND		JONOTHON SLEDZ	4.00			JS
MOTOR HAND		DWAYNE PACKER	4.00			DP
FLOOR HAND		STANLEY GRAHAM	4.00			SG
LEASE HAND		GERRY MORASH	4.00			GM

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID.
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

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

YEAR 2008 MONTH 3 DAY 11
RIG NO. 14
RIG FULL to 26.00 m KB
BOILER
TEMPERATURE -15
CURRENT CONDITIONS CLOUDY
WIND DIRECTION CALM
ROAD CONDITION ICE

CASING & TUBING OF 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	220.5	69.94	TENARUS	L-80	18	252.19	4.25	252

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
DP	102	20.84	X	85	130	4"FH	125	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5"IF	14	F800	EMSCO	229
DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG	4.11	OP FUEL	
CONTRACTOR'S JOB NUM	457		
TOUR SHEET SERIAL NUM	AKTA14_20080311_1D		
VENDOR SOFTWARE VERSION	EDR 3-2-8_HF1 ETS 2.2		

CAODC

PASON DATAHUB

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	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					
MORN		5.75					0.25			2.0																
DAY					0.5	7.0	0.25														0.25					
EVE				3.25	0.25	4.5																				
TOTAL		5.75		3.25	0.75	11.50	0.50			2.00											0.25					

	MORN	DAY	EVE
TOTALS	8.00	8.00	8.00	24.00

SPARE STANDS (m)

NO. 1	TYPE DOUBLE LIFE	TYPE	REPAIRS / SERVICES	MORN	DAY	EVE
SCREENS CHANGED	NO	NEW USED				
TOP 50	TOP					
MIDDLE 50	MIDDLE					
BOTTOM 50	BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	11

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	8

MORNING TOUR

FROM 0 TO 800

NO.	DRILLING ASSEMBLY (AS RUN OF TOUR) BIT	O.D.	LENGTH
1			.24
1	VIRTITRAK	181	9.39
1	FILTER SUB	159	1.67
1	FLOAT SUB		.68
1	ROLLER REAMER		1.35
1	D.C.	159	9.40
1	PLPB SUB		2.66
7	D.C.	159	65.81
1	JAR		4.76
2	D.C.	159	18.75
1	X.O.		.26
4	D.C.	121	38.09
1	X.O.		30
	D.P. STANDS		
39	D.P. SINGLES		371.77
KELLY DOWN			5.87
TOTAL			531.00
WT. OF D.C.	14		
WT. OF STRING	24		

BIT RECORD

BIT NO.	1
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	20 X3
DEPTH OUT (m)	531
DEPTH IN (m)	252
TOTAL DRILLED (m)	279.00
TOTAL HRS RUN	16.5

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN mHR

HOLE CONDITION

HOLE DRAG	2 up 0 dwn
TORQUE AT BOTTOM	0
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED ☐
TIME	0100	0400	0600
DENSITY (kg/m3)	1020	1020	1020
FUNNEL VISCOSITY	54	60	75
FLUID LOSS (cm3)	10.5	10	10
pH	8	8	7

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
HUMALITE	8	SX
HIGHPERM	1	PAILS
DRISPAC	1	SX
PHPA	1	PAILS
CAL CARB 'O'	5	SX
CAL CARB 325	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

BOILERS

1		2	
HRS RUN	8	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	489	STACK TEMP	570

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
450	531	D	0	11

CIRCULATION PRESSURE kPa 7385

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	120

REDUCED PUMP SPEED 2396 @ 60 @ 525

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
468	.06	
498	.46	

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0030	0.50	2	DRILL 216mm HOLE FR 450m to 459m
0030	0045	0.25	7	RIG SERVICE / FUNCTION CROWN SAVER
0045	600	5.25	2	DRILL 216mm HOLE FR 459m to 531m
600	800	2.00	10	ACCUMULATED CIRC AND WORK PIPE TIME.

NOTES: FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3Sec
REVIEW JSA- G33(RIG SERVICE) C8(HOIST TUBULARS) A14(H2S)

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				LOADER OPERATION	25	2039

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS	DRIVERS
8	GERRY MORASH

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	8.00			MC
DERRICK HAND		JONOTHON SLEDZ	8.00			JS
MOTOR HAND		DWAYNE PACKER	8.00			DP
FLOOR HAND		STANLEY GRAHAM	8.00			SG
LEASE HAND		GERRY MORASH	8.00			GM

DAY TOUR

FROM 800 TO 1600

NO.	DRILLING ASSEMBLY (AS RUN OF TOUR) BIT	O.D.	LENGTH
1			0.26
1	CORE BARREL		10.43
1	JAR		2.12
1	DOUBLE PIN		.27
1	BIT SUB		.73
10	D.C.	159	93.96
1	X.O.		.26
4	D.C.	121	38.09
1	X.O.		.30
1	PUP JOINT		1.53
	D.P. STANDS		
39	D.P. SINGLES		371.77
KELLY DOWN			11.27
TOTAL			530.99
WT. OF D.C.	13		
WT. OF STRING	23		

BIT RECORD

BIT NO.	2
SIZE	171
IADC CODE	
MANUFACTURER	HUGHES
TYPE	C22
SERIAL NO.	7113946
JETS	
DEPTH OUT (m)	531
DEPTH IN (m)	
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN mHR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	1 UP 1 DOWN
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED ☐
TIME	0715		
DENSITY (kg/m3)	1020		
FUNNEL VISCOSITY	85		
FLUID LOSS (cm3)	9.5		
pH	7.5		

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRISPAC	4	SX
HUMALITE	4	SX
SAWDUST	5	SX
HIGHPERM	1	PAILS
DESCO II	1	SX
CAL CARB 'O'	5	SX
CAL CARB 325	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

BOILERS

1		2	
HRS RUN	8	HRS RUN	8
BOILER pH	10.5	BOILER pH	10.5
STACK TEMP	430	STACK TEMP	480

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0800	0815	0.25	6	5 STAND WIPER TRIP. HOLEFILL VOL=CALC.13m3, MEAS .51m3 DIFF +.38m3
0815	0845	0.50	5	CONDITION MUD & CIRCULATE
0845	1300	4.25	6	P.O.O.H TO PICK UP CORING TOOLS FLOW CHECKS @ 498m,268m, 0m
1300	1315	0.25	7	RIG SERVICE
1315	1330	0.25	21	SAFETY MEETING
1330	1600	2.50	6	MAKE UP CORE TOOLS AND R.I.H.

NOTES: FUNCTION TEST CROWN SAVER, AIRHORN, AND MOTOR KILLS
BLIND RAMS(5sec)HYDRIL(7sec),PIPE RAMS(4secs),HCR(3secs)
REVIEW JSA- A-1 (WORKING @ HIEGHTS), D-48 (DOG COLLAR USE), E-1 (PLUGGING IN AND UNPLUGGING ELECTRICAL CORDS
EXTRA 2 HOURS FOR PRE TOUR SAFETY MEETINGS

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				tripping	23	2039

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS	DRIVERS
8	

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	14.00			JS
DERRICK HAND		JAKE HINKLEY	14.00			JH
MOTOR HAND		ADAM MATTIES	14.00			AM
FLOOR HAND		TROY LAMBERT	14.00			TL
LEASE HAND		BRANDON DONNELLY	14.00			BD
LEASE HAND		ARNOLD MANUEL	14.00			AM
W.S.S.C.		TONY OGILVIE	14.00			TO

EVENING TOUR

FROM 1600 TO 2400

NO.	DRILLING ASSEMBLY (AS RUN OF TOUR) BIT	O.D.	LENGTH
1			0.26
1	CORE BARREL		10.43
1	JAR		2.12
1	DOUBLE PIN		.27
1	BIT SUB		.73
10	D.C.	159	93.96
1	X.O.		.26
4	D.C.	121	38.09
1	X.O		.30
1	PUP JOINT		1.53
	D.P. STANDS		
40	D.P. SINGLES		381.26
KELLY DOWN			11.27
TOTAL			540.48
WT. OF D.C.	13		
WT. OF STRING	23		

BIT RECORD

BIT NO.	2
SIZE	171
IADC CODE	
MANUFACTURER	HUGHES
TYPE	C22
SERIAL NO.	7113946
JETS	
DEPTH OUT (m)	
DEPTH IN (m)	531
TOTAL DRILLED (m)	
TOTAL HRS RUN	

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN mHR

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	1028
FILL ON BOTTOM (m)	1

MUD RECORD

MUD TYPE		WATER BASED X	OIL BASED ☐
TIME	2000		
DENSITY (kg/m3)	1030		
FUNNEL VISCOSITY	93		
FLUID LOSS (cm3)	8		
pH	7		

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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	575	STACK TEMP	590

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
531	540	C	45	3

CIRCULATION PRESSURE kPa 3156

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	60

REDUCED PUMP SPEED 1100 @ 30 @ 540

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1645	0.75	6	CONT TO R.I.H WITH CORE TOOLS
1645	1700	0.25	5	BREAK CIRC 3 STANDS OFF BOTTOM
1700	1730	0.50	6	WASH DOWN LAST 4 JOINTS
1730	2045	3.25	4	CUT CORE #1 FR 531m to 540m- CUT 9m's
2045	2400	3.25	6	P.O.O.H TO RECOVER CORE- FLOW CHECKS @ 529, 514, 346, 155, 0m's

NOTES: FUNCTION TEST CROWN SAVER, AIRHORN, HYDRIL (7sec), PIPE RAMS (4sec), HCR (3sec)
REVIEW JSA- D43(P.O.O.H) F13(TRIPING IN DERRICK) D36(RECOVER CORE)
EXTRA HOURS FOR PRE-TOUR SAFETY MEETINGS
TRIP VOLUMES CALC 2.70m3 MEAS 4.43m3 DIFF +1.73m3

SPECIAL EVENT				SAFETY TOPIC	MEHL	MACP
TIME / DEPTH				RECOVER CORE	24	2039

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS	DRIVERS
8	GERRY MORASH

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	6.00			MC
DERRICK HAND		JONOTHON SLEDZ	6.00			JS
MOTOR HAND		DWAYNE PACKER	6.00			DP
FLOOR HAND		STANLEY GRAHAM	6.00			SG
LEASE HAND		GERRY MORASH	6.00			GM

LICENCE NO.

WELL NAME & NO. **HUSKY et al Keele River L-52**

OPERATOR **HUSKY OIL OPERATIONS LIMITED**

SURFACE LOCATION **L-52**

CONTRACTOR NAME **AKITA DRILLING LTD.**

UNIQUE ID

SIGNATURE OF OPERATOR'S REPRESENTATIVE **SAM MACHNEE**

SIGNATURE OF CONTRACTOR'S RIG MANAGER **HALLOCK / UNRAU**

DAILY CHECKS

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

YEAR 2008 MONTH 3 DAY 10

RIG NO. 14

RIG: FULL 4 PUMP BOILERS / BOILER

TEMPERATURE -25

CURRENT CONDITIONS CLEAR

WIND DIRECTION CALM

ROAD CONDITION ICE

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D	TYPE THREAD	NO. of JOINTS
DP	102	20.84	X	85	130	4"FH	125
DC	121	69.4	E	55	127	3.5"IF	14
DC	159	134.66	E	60	159	4.5XH	12

	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	220.5	69.94	TENARUS	L-80	18	252.19	4.25	252

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191
F800	EMSCO	229

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	4.11
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080310_1F
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2

CAODC

PASON DATAHUB

CODE HRS	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 DIV. 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 DRILL OUT	23	24	25	26
MORN		0.5			2.25	2.25									0.5					2.0	0.25	0.25				
DAY		4.5				2.75	0.25													0.25	0.25					
EVE		5.75					0.25			2.0																
TOTAL		10.75			2.25	5.00	0.50			2.00					0.50					2.25	0.50	0.25				

	TOTALS	SINGLE SHAKER EQUIP. NO.	TYPE	PERIPHERALS / SERVICES	MORN	DAY	EVE
	8.00	1	DOUBLE LIFE				
	8.00	SCREENS CHANGED	NEW USED	USED			
	8.00	TOP 50	TOP				
	8.00	MIDDLE 50	MIDDLE				
	24.00	BOTTOM 50	BOTTOM				

MORNING TOUR

NO.	DRILLING ASSEMBLY (FROM END OF HOLE) BIT	O.D.	LENGTH
1	BIT		.24
1	VIRTITRAK	181	9.39
1	FILTER SUB	159	1.67
1	FLOAT SUB		.68
1	ROLLER REAMER		1.35
1	D.C.	159	9.40
1	PLPB SUB		2.66
5	D.C.	159	47.00
1	JAR		4.76
2	D.C	159	18.80
1	X.O.		.26
4	D.C.	121	38.09
1	X.O.		.30
	D.P. STANDS		
	D.P. SINGLES		
KELLY DOWN			11.27
TOTAL			145.87
WT. OF D.C.	11		
WT. OF STRING	18		

BIT RECORD

BIT NO.	1
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	20 X3
DEPTH OUT (m)	
DEPTH IN (m)	252
TOTAL DRILLED (m)	5
TOTAL HRS RUN	.5

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN mHR

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

MUD RECORD — MUD TYPE: WATER BASED [X] OIL BASED [ ]

TIME	0030	230
DENSITY (kg/m3)	1010	1010
FUNNEL VISCOSITY	30	40
FLUID LOSS (cm3)		
pH	10	10

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
252	257	D	12	8

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
SODIUM BICARB	11	SX
SALFAMIC ACID	4	SX

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

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10	10
STACK TEMP	480	590

CIRCULATION PRESSURE kPa: 4300

PUMP NO. 1: LINER SIZE 152, SPM | PUMP NO. 2: LINER SIZE 152, SPM 124

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	015	0.25	22	DRILL OUT SHOE
015	0045	0.50	2	DRILL 216mm HOLE FR 252m to 257m
0045	115	0.50	5	CONDITION MUD & CIRCULATE
115	145	0.50	15	PERFORM FORMATION INTEGRITY TEST
145	245	1.00	5	DISPLACE CEMENT WATER (CHANGE SHAKER SCREENS)
245	330	0.75	5	CONDITION MUD & CIRCULATE- PREPARE TO TRIP
330	545	2.25	6	P.O.O.H TO PICK UP VERTITRAK FLOW CHECKS @ 248, 238, 181, 124, Om's
545	600	0.25	21	SAFETY MEETING PICKING UP DIRC. TOOLS
600	800	2.00	20	PICK UP DIRCTIONAL TOOLS

NOTES: FUNCTION CROWN SAVER FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- D43(P.O.O.H) D53(MAKE UP BIT) D18(MAKE UP DIRECTIONAL TOOLS)
TRIP VOLUMES- CALC. 1.42m3 MEAS. 2.77m3 DIFF. + 1.35m3
FUNCTION BLING RAM OOH-2SEC CLOSED

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
MAKE UP DIR. TOOLS	21	2089

DAY TOUR

NO.	DRILLING ASSEMBLY (FROM END OF HOLE) BIT	O.D.	LENGTH
1	BIT		.24
1	VIRTITRAK	181	9.39
1	FILTER SUB	159	1.67
1	FLOAT SUB		.68
1	ROLLER REAMER		1.35
1	D.C.	159	9.40
1	PLPB SUB		2.66
7	D.C.	159	65.81
1	JAR		4.76
2	D.C.	159	18.75
1	X.O.		.26
4	D.C.	121	38.09
1	X.O.		.30
	D.P. STANDS		
18	D.P. SINGLES		171.42
KELLY DOWN			11.27
TOTAL			336.05
WT. OF D.C.	14		
WT. OF STRING	21		

BIT RECORD

BIT NO.	1
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	20 X3
DEPTH OUT (m)	
DEPTH IN (m)	252
TOTAL DRILLED (m)	84
TOTAL HRS RUN	5

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN mHR

HOLE CONDITION: HOLE DRAG 1 UP 1 DOWN / TORQUE AT BOTTOM / FILL ON BOTTOM (m) 1

MUD RECORD — MUD TYPE: WATER BASED [X] OIL BASED [ ]

TIME	1300	1430	1600
DENSITY (kg/m3)	1010	1020	1020
FUNNEL VISCOSITY	44	45	47
FLUID LOSS (cm3)	12	11	9
pH	9.5	9.5	9

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
257	336	D	0	10.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
DRISPAC	3	SX
HUMALITE	7	SX
CAL CARB 'O'	5	SX
CAL CARB 325	5	SX
HIGHPERM	9	PAILS
PHPA	2	PAILS

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

8	1020	1010	1820

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10.5	10.5
STACK TEMP	420	435

CIRCULATION PRESSURE kPa: 7837

PUMP NO. 1: LINER SIZE 152, SPM | PUMP NO. 2: LINER SIZE 152, SPM 120

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
269	.29	
317.5	0.05	

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1045	2.75	6	MAKE UP DIRECTIONAL TOOLS AND R.I.H.
1045	1100	0.25	20	ORIENTATING VERTITRAK
1100	1115	0.25	21	B.O.P. DRILL WITH CREW AND HUSKY REP. WELL SECURE IN 1 min 30 sec
1115	1545	4.50	2	DRILL 216mm HOLE FROM 257m TO 336m
1545	1600	0.25	7	RIG SERVICE

NOTES: FUNCTION TEST CROWN SAVER, AIRHORN, HYDRIL(7sec), BLIND RAMS(5sec), PIPE RAMS(4sec), HCR(3sec)
REVIEW JSA- C-6 (ROLLING PIPE), B-1 (BOILER BLOWDOWN), A-9 (DRIVE TO AND FROM LOCATION)

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MEHL	MACP
TRAPPED TORQUE	22	2039

EVENING TOUR

NO.	DRILLING ASSEMBLY (FROM END OF HOLE) BIT	O.D.	LENGTH
1	BIT		.24
1	VIRTITRAK	181	9.39
1	FILTER SUB	159	1.67
1	FLOAT SUB		.68
1	ROLLER REAMER		1.35
1	D.C	159	9.40
1	PLPB SUB		2.66
7	D.C.	159	65.81
1	JAR		4.76
2	D.C	159	18.75
1	X.O		.26
4	D.C	121	38.09
1	X.O.		.30
	D.P. STANDS		
30	D.P. SINGLES		285.98
KELLY DOWN			11.27
TOTAL			450.61
WT. OF D.C.	14		
WT. OF STRING	21		

BIT RECORD

BIT NO.	1
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	20 X3
DEPTH OUT (m)	
DEPTH IN (m)	252
TOTAL DRILLED (m)	198.00
TOTAL HRS RUN	10.75

CUTTING STRUCTURE: TI | To | MDC | LOC | BRG | GAGE | ODC | REASON PULLED | TOTAL RUN mHR

HOLE CONDITION: HOLE DRAG 3 up 2 dwn / TORQUE AT BOTTOM 0 / FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE: WATER BASED [X] OIL BASED [ ]

TIME	1800	2000	2245
DENSITY (kg/m3)	1010	1010	1020
FUNNEL VISCOSITY	50	50	48
FLUID LOSS (cm3)	13	13	12.5
pH	8	8	8

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
336	450	D	0	11

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
HUMALITE	4	SX
DRISPAC	4	SX

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

BOILERS

	1	2
HRS RUN	8	8
BOILER pH	10	10
STACK TEMP	475	580

CIRCULATION PRESSURE kPa: 6952

PUMP NO. 1: LINER SIZE 152, SPM 120 | PUMP NO. 2: LINER SIZE 152

REDUCED PUMP SPEED: 1879 @ 60 @ 441

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
348	0.07	
378	.2	
408	.08	
438	.14	

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1615	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
1615	2200	5.75	2	DRILL 216MM HOLE FROM 336m to 450m
2200	2400	2.00	10	ACCUMULATED SURVEY'S AND CONNETION'S

NOTES: FUNCTION CROWN SAVER FUNCTION HYDRIL 6sec PIPERAMS 4sec HCR 3sec
REVIEW JSA- G49(USE STEAM) D26(MAKE CONNECTIONS) I1(MIX MUD PRODUCTS)

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MEHL	MACP

DRILLING CREW PAYROLL DATA

WELL NAME & NO. HUSKY et al Keele River L-52 — YEAR 2008 — MONTH 3 — DAY 10

OPERATOR HUSKY OIL OPERATIONS LIMITED — CONTRACTOR NAME AKITA DRILLING LTD.

RIG MANAGER HALLOCK / UNRAU — RIG NO. 14

PROVINCE N.W.T. — CAMP [X] YES [ ] NO — RIG SAFETY DAYS 7

MORNING TOUR — FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		MARK CLIFFORD T3	8.00		MC
DERRICK HAND		JONOTHON SLEDZ	8.00		JS
MOTOR HAND		DWAYNE PACKER	8.00		DP
FLOOR HAND		STANLEY GRAHAM	8.00		SG
LEASE HAND		GERRY MORASH	8.00		GM

RATE SCHEDULE X REGULAR [ ] REPAIR [ ] INVERT

CREW SAFETY DAYS: 7 — DRIVERS: GERRY MORASH

DAY TOUR — FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		JOSH SLEDZ	12.00		JS
DERRICK HAND		JAKE HINKLEY	12.00		JH
MOTOR HAND		ADAM MATTIES	12.00		AM
FLOOR HAND		TROY LAMBERT	12.00		TL
LEASE HAND		BRANDON DONNELLY	12.00		BD
LEASE HAND		ARNOLD MANUEL	8.00		AM
W.S.S.C.		TONY OGILVIE	12.00		TO

RATE SCHEDULE X REGULAR [ ] REPAIR [ ] INVERT

CREW SAFETY DAYS: 7 — DRIVERS:

EVENING TOUR — FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		MARK CLIFFORD T3	4.00		MC
DERRICK HAND		JONOTHON SLEDZ	4.00		JS
MOTOR HAND		DWAYNE PACKER	4.00		DP
FLOOR HAND		STANLEY GRAHAM	4.00		SG
LEASE HAND		GERRY MORASH	4.00		GM

RATE SCHEDULE X REGULAR [ ] REPAIR [ ] INVERT

CREW SAFETY DAYS: — DRIVERS: GERRY MORASH

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION: L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: HALLOCK / UNRAU

DAILY CHECKS

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

YEAR	MONTH	DAY
2008	3	9

RIG NO. 14
FUEL 10:00 HRS
RIG: BOILER

TEMPERATURE: -30
CURRENT CONDITIONS: CLEAR
WIND DIRECTION: CALM
ROAD CONDITION: ICE

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	220.5	69.94	TENARUS	L-80	18	252.19	4.25	252

DC/DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T.JNT. O.D.	TYPE THSEAD	NO. of JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DP	102	20.84	X	85	130	4"FH	125	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5"IF	14	F800	EMSCO	229
DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	4.11
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080309_1C
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2

CAODC

PASON DATAHUB

CODE HO	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 DRILL OUT	23 WELD BOWL	24	25	26	TOTALS
MORN														5.5	0.5						0.5		1.5				8.00
DAY															7.75						0.25						8.00
EVE						1.5	0.25								5.5						0.25	0.5					8.00
TOTAL						1.50	0.25							5.50	13.75						1.00	0.50	1.50				24.00

SHALE SHAKERS	TYPE	TYPE
NO. 1	DOUBLE LIFE 50	
SCREENS CHANGED	NO	NEW USED
TOP	50	TOP
MIDDLE	50	MIDDLE
BOTTOM	50	BOTTOM

REMARKS / SERVICES	MORN	DAY	EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	9

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES / NO	6

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	8.00	7		MC
DERRICK HAND		JONOTHON SLEDZ	8.00			JS
MOTOR HAND		DWAYNE PACKER	8.00			DP
FLOOR HAND		STANLEY GRAHAM	8.00			SG
LEASE HAND		GERRY MORASH	8.00			GM

INJURIES:

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 6

DRIVERS: MIKE STRANG

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	12.00			JS
DERRICK HAND		JAKE HINKLEY	12.00			JH
MOTOR HAND		ADAM MATTIES	12.00			AM
FLOOR HAND		TROY LAMBERT	12.00			TL
LEASE HAND		BRANDON DONNELLY	12.00			BD
W.S.S.C.		TONY OGILVIE	12.00			TO

INJURIES:

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 6

DRIVERS:

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	4.00			MC
DERRICK HAND		JONOTHON SLEDZ	4.00			JS
MOTOR HAND		DWAYNE PACKER	4.00			DP
FLOOR HAND		STANLEY GRAHAM	4.00			SG
LEASE HAND		GERRY MORASH	4.00			GM

INJURIES:

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 6

DRIVERS: GERRY MORASH

MORNING TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AFTER 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 [X] OIL BASED [ ]

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

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
KELZAN	5	SX
DRISPAC	4	SX
CAL CARB 'O'	10	SX
CAL CARB 325	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

BOILERS

1		2	
HRS RUN	8	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	480	STACK TEMP	490

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	130	1.50	23	CONTINE TO WELD ON BOWL, PRESS. TEST TO 1000 PSI
130	145	0.25	21	SAFETY MEETING PRIOR TO NIPPLE UP
145	715	5.50	14	NIPPLE UP-SPOOLS, AND STACK, FUNCTION ALL RAMS & HYDRIL & HCR -FUNCTION FROM
715				BOTH CONTROLS (TIME CHANGE TO DAYLIGHT SAVINGS)
715	730	0.25	21	SAFETY MEETING W/ BIGEAGLE PRESS.TESTER
730	800	0.50	15	PRESS. TEST BLIND RAMS & MANIFOLD VALVES 1500 & 21000kPa 15min EACH

NOTES: VISUALLY INSPECT DEGASSOR FLARE & DEGASSOR LINES, CHECK MOTOR KILLS
CHECK CROWN SAVER & POPVALVES
JSA- L3(NIPPLE UP) G5(PRESSURE TEST) J5(POP VALVE FUNCTION TEST)

SPECIAL EVENT / TIME / DEPTH:

SAFETY TOPIC	MEH.	MACP
NIPPLE UP		

DAY TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AFTER 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
HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY

BOILERS

1		2	
HRS RUN	8	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	480	STACK TEMP	490

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0800	0815	0.25	21	SAFETY MEETING WITH RIG CREW, PRESSURE TESTER, AND HUSKY REP.
0815	1600	7.75	15	PRESS TEST MANIFOLD VALVES, STABING VALVES, INSIDE B.O.P. UPPER KELLY COCK,
				1500kpa & 21000kpa 15min EACH ,10500KPA ON ANNULAR

NOTES: FUNCTION TEST CROWN SAVER, AIR HORN, HYDRIL (7sec), PIPERAMS (4sec), HCR (3sec),
BLIND RAMS 5(sec), FUNCTION TEST MOTOR KILLS.
REVIEW JSA-
PRESS. 20200kPa OPEN HCR 3sec CLOSE PIPERAMS 4sec & HYDRIL 6sec
PRESS. REMAINING 13000kPa PRECHARGE PRESS. 8500kPa 1min 19sec TO RECHARGE

SPECIAL EVENT / TIME / DEPTH:

SAFETY TOPIC	MEH.	MACP
PRESSURE TESTING		

EVENING TOUR

BIT RECORD

NO.	DRILLING ASSEMBLY (AFTER END OF TOUR) BIT	O.D.	LENGTH
1			24
1	BIT SUB		.73
6	D.C.	159	75.21
1	X.O.		.26
4	D.C.	121	38.09
1	X.O.		3

BIT NO.	1
SIZE	216
IADC CODE	
MANUFACTURER	HUGHES
TYPE	GX-18
SERIAL NO.	6062422
JETS	20 X3
DEPTH OUT (m)	
DEPTH IN (m)	252
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			114.83
WT. OF D.C.	11		
WT. OF STRING	16		

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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	480	STACK TEMP	590

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

CIRCULATION PRESSURE kPa: 2600

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	100

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1730	1.50	15	CONTINUE TO PRESS TEST B.O.P.1400kpa, 14000kpa 30min EACH
1730	1900	1.50	6	MAKE UP B.H.A. AND R.I.H. W/PORTED FLOAT
1900	2300	4.00	15	PRESSURE TEST UPPER KELLY COCK 1400kPa & 14000kPa 30min EACH
2300	2315	0.25	21	B.O.P DRILL W/ CREW IN POSTIONS IN 58sec
2315	2330	0.25	7	RIG SERVICE/ FUNCTION CROWN SAVER
2330	2400	0.50	22	DRILL OUT TAGED FLOAT @ 235m SHOE 252m

NOTES: FUNCTION HYDRIL 8sec PIPE RAMS 4sec HCR 3sec
REVIEW JSA- B1(BOILER BLOW DOWN) F16(FUNCTION CROWN SAVER) G33(RIG SERVICE)

SPECIAL EVENT / TIME / DEPTH:

SAFETY TOPIC	MEH.	MACP
KICK WARNING SIGNS		

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

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.) Meet Inspection before Raising or Lowering
(4.) Crown Saver Checked
(5.) Motor Kills Checked

OPS	S.M.
SM	HU
SM	HU
SM	HU
SM	HU
SM	HU
SM	HU
	HU
	HU
	HU
	HU

YEAR	MONTH	DAY
2008	3	8

RIG NO.	FUEL CONSUMPTIONS	
14	RIG 208	BOILER 186

TEMPERATURE -25
CURRENT CONDITIONS CLEAR
WIND DIRECTION CALM
ROAD CONDITION ICE

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	220.5	69.94	TENARUS	L-80	18	252.19	4.25	252

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
DP	102	20.84	X	85	130	4"FH	125	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5"IF	14	F800	EMSCO	229
DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG	4.11	OP FUEL	
CONTRACTOR'S JOB NUM.	457		
TOUR SHEET SERIAL NUM.	AKTA14_20080308_1F		
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2		

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 LAY OUT DP	23 BITTERASING	24 WELD ON B	25	26	TOTALS
MORN					1.25	2.25	0.75					3.5									0.25						8.00
DAY					1.25		0.25					4.0	2.0								0.5						8.00
EVE													4.0								0.25	0.75	3.0				8.00
TOTAL					2.50	2.25	1.00					7.50	6.00								1.00	0.75	3.00				24.00

SHOE SPEARIGHT	NO.	TYPE DOUBLE LIFE	TYPE
SCREENS CHANGED	NO	NEW USED	
TOP	50	TOP	
MIDDLE	50	MIDDLE	
BOTTOM	50	BOTTOM	

RENTALS / SERVICES | MORN | DAY | EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	8

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	5

NO.	DRILLING ASSEMBLY (LIST END OF TOUR)	O.D.	LENGTH
1	BIT		30
1	BIT SUB		1.00
2	D.C.	177	18.69
1	STAB	308	1.30
1	D.C.	177	9.48
1	X.O.	177	0.75
5	D.C.	159	46.83
1	JAR	159	4.76
3	D.C.	159	28.38
1	X.O.	159	0.26
4	D.C.	121	38.09
1	X.O.		0.3
	D.P. STANDS		
10	D.P. SINGLES		95.27
	KELLY DOWN		6.61
	TOTAL		252.00
	WT. OF D.C.	18	
	WT. OF STRING	19	

MORNING TOUR

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	SMITH
TYPE	GTCS1
SERIAL NO	6022344
JETS	20 X3
DEPTH OUT (m)	252
DEPTH IN (m)	24
TOTAL DRILLED (m)	228.00
TOTAL HRS RUN	22.25

CUTTING STRUCTURE

TI	To	MDC	LOC	BRG	GAGE	ODC	REASON PULLED	TOTAL RUN m/HR
2	2	WT	A	3	1	WT	TD	10.24

HOLE CONDITION

HOLE DRAG 5 up 3 dwn
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	WATER BASED: X	OIL BASED:
TIME	0000	0045
DENSITY (kg/m3)	1150	1150
FUNNEL VISCOSITY	67	100
FLUID LOSS (cm3)		
pH	8	8

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
GEL	15	SX
LIGNITE	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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	490	STACK TEMP	470

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
5800	152	94	152	87

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	045	0.75	5	CONDITION MUD & CIRCULATE
045	130	0.75	7	RIG SERVICE-BLOW KELLY WITH AIR
130	345	2.25	6	P.O.O.H TO RUN CASING AND LAY DOWN SEVEN INCHE COLLARS JARS AND STAB
345	400	0.25	21	SAFETY MEETING W/ FI
400	730	3.50	12	RIG TO AND RUN CASING
730	800	0.50	5	CONDITION MUD & CIRCULATE

NOTES: FUNCTION CROWN SAVER HYDRIL 6sec HCR 3sec
REVIEW JSA- D50(INSPECT TONGS) D33(RUN CASING) G10(CIRCULATE CASING)

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: RUN CASING | MEN: 20 | MACP: 0

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 5 | DRIVERS: MIKE STRANG

MORNING TOUR FROM 0 TO 800					INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		MARK CLIFFORD T3	8.00		MC
DERRICK HAND		JONOTHON SLEDZ	8.00		JS
MOTOR HAND		BRAD TARR	8.00		BT
FLOOR HAND		STANLEY GRAHAM	8.00		SG
LEASE HAND		GERRY MORASH	8.00		GM

DAY TOUR

NO.	DRILLING ASSEMBLY (LIST END OF TOUR)	O.D.	LENGTH
	BIT		
	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 3 UP 3 DOWN
TORQUE AT BOTTOM
FILL ON BOTTOM (m) 1

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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	425	STACK TEMP	450

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
612	152	80	152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0800	0930	1.50	12	RUN 244.5mm CASING
0930	0945	0.25	7	RIG SERVICE
0945	1100	1.25	5	CONDITION MUD & CIRCULATE
1100	1115	0.25	21	SAFETY MEETING WITH RIG CREW AND CEMENTERS AND HUSKY REP
1115	1345	2.50	12	CEMENT 244.50m CASING, PLUG DOWN @ 1315
1345	1400	0.25	21	ENVIROMENTAL SAFETY MEETING WITH RIG CREW AND HUSKY REP
1400	1600	2.00	13	WAIT ON CEMENT

RAN 18 JTS OF 244.5 MM, 69.94 KG/M, L-80 LANDED AT 252 M
CEMENTED WITH 20.5 TONNE OF RFC FILLUP , 8 M3 RETURNS.
PLUG DOWN AND HELD AT 13;15 HRS. MAR.8/08.

NOTES: FUNCTION TEST CROWN SAVER, AIRHORN, HYDRIL (7sec), HCR (3sec),
REVIEW JSA- D-5 (RIG OUT POWER TONGS), D-14 (CIRC CASING ON BOTTOM),
D-15 (CEMENT CASING)

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: 3rd PARTY EQUIPMENT | MEN: 30 | MACP:

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 5 | DRIVERS:

DAY TOUR FROM 800 TO 1600					INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		JOSH SLEDZ	12.00		JS
DERRICK HAND		JAKE HINKLEY	12.00		JH
MOTOR HAND		ADAM MATTIES	12.00		AM
FLOOR HAND		TROY LAMBERT	12.00		TL
LEASE HAND		BRANDON DONNELLY	12.00		BD
LEASE HAND		JONATHAN AYAH	12.00		JA
W.S.S.C.		TONY OGILVIE	12.00		TO

EVENING TOUR

NO.	DRILLING ASSEMBLY (LIST END OF TOUR)	O.D.	LENGTH
	BIT		
	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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP	455	STACK TEMP	490

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
	152		152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION

DRILLER SIGNATURE: MARK CLIFFORD T3

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2000	4.00	13	WAIT ON CEMENT
2000	2045	0.75	22	LAY OUT THE DIVERTER
2045	2100	0.25	21	SAFETY MEETING W/WELDER
2100	2400	3.00	23	CUT CASING AND WELD ON THE BOWL

NOTES: FUNCTION CROWN SAVER
REVIEW JSA- G13(OPERATE TUGGER) G42(LOADER OPERATION) G46(USE HAND TOOLS)

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: WELDING | MEN: | MACP:

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 5 | DRIVERS: MIKE STRANG

EVENING TOUR FROM 1600 TO 2400					INJURIES
CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		MARK CLIFFORD T3	4.00		MC
DERRICK HAND		JONOTHON SLEDZ	4.00		JS
MOTOR HAND		DWAYNE PACKER	4.00		DP
FLOOR HAND		STANLEY GRAHAM	4.00		SG
LEASE HAND		GERRY MORASH	4.00		GM

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR: HUSKY OIL OPERATIONS LIMITED	CONTRACTOR NAME: AKITA DRILLING LTD.
SURFACE LOCAT[illegible] L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: HALLOCK / UNRAU

DAILY CHECKS

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

YEAR 2008 MONTH 3 DAY 7
RIG NO. 14
FUEL ON 05:00 HRS
RIG 208 BOILER 186
TEMPERATURE -15
CURRENT CONDITIONS CLOUDY
WIND DIRECTION CALM
ROAD CONDITION ICE

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	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
DP	102	20.84	X	85	130	4"FH	125	F500	EMSCO	191
DC	121	69.4	E	55	127	3.51F	14	F800	EMSCO	229
DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG	4.11	OP FUEL	
CONTRACTOR'S JOB NUM	457		
TOUR SHEET SERIAL NUM	AKTA14_20080307_1D		
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2		

CAODC

PASON DATAHUB

CODE HO	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 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26
MORN		7.0					0.25			0.75																
DAY		7.25								0.75																
EVE		2.5			0.75	4.5				0.25																
TOTAL		16.75			0.75	4.50	0.25			1.75																

TOTALS	SHALE SHAKER(S) NO.	TYPE	TYPE	REMARKS / SERVICES	MORN	DAY	EVE
8.00	1	DOUBLE LIFE					
8.00	SCREENS CHANGED	NO	NEW / USED				
8.00	TOP 50	TOP					
8.00	MIDDLE 50	MIDDLE					
24.00	BOTTOM 50	BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	7

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	4

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
1	BIT O.D. 30	
1	BIT SUB	1.00
2	D.C. 177	18.69
1	STAB 308	1.30
1	D.C. 177	9.46
1	X.O. 177	0.75
5	D.C. 159	46.83
1	JAR 159	4.76
3	D.C. 159	28.38
1	X.O. 159	0.26
3	D.C. 121	28.51
	D.P. STANDS	
	D.P. SINGLES	
KELLY DOWN		3.22
TOTAL		143.46
WT. OF D.C.	15	
WT. OF STRING		

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	SMITH
TYPE	GTCS1
SERIAL NO	6022344
JETS	20 X3
DEPTH OUT (m)	
DEPTH IN (m)	24
TOTAL DRILLED (m)	127
TOTAL HRS RUN	12.50

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

HOLE CONDITION
HOLE DRAG 1UP 1DOWN
TORQUE AT BOTTOM 1546
FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE: WATER BASED X OIL BASED ☐

TIME	0100	300	0510
DENSITY (kg/m3)	1020	1040	1070
FUNNEL VISCOSITY	31	34	31
FLUID LOSS (cm3)			
pH	9	9	8

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
SAWDUST	12	SX
DRILLING DETERGENT	1	PAILS
GEL	4	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1070	1050	1730

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

BOILERS

1		2	
HRS RUN	8	HRS RUN	8
BOILER pH	10.5	BOILER pH	10.5
STACK TEMP.	430	STACK TEMP.	420

CIRCULATION PRESSURE kPa: 5134

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152	85	152	100

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
94	0.25	W/L

DRILLER SIGNATURE: J.D. HINKLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
71	143	D	120	4.0

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	15	0.25	7	RIG SERVICE-FUNCTION MOTORKILLS,CROWNSAVER
15	715	7.00	2	DRILL 311mm HOLE FR 71m TO 146m
715				longer connection time due to x/o sub wont fit in sock
715	800	0.75	10	DEVIATION SURVEYS ACCUMULATED
				INSTALLED JARS@ 78M

NOTES: FUNCTION HYDRILL(7SEC) HCR(3SEC) REVIEW JSA'S- C8 HOISTING TUBULARS G36 HAULING
GARBAGE G59 CHANGING LOADER ATTACHMENTS

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MPL	MACP
LEASE CONDITIONS	17	0

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 4
DRIVERS: MIKE STRANG

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		JASON MCINTOSH	8.00			JM
LEASE HAND		MIKE STRANG	8.00			MS

-8-4FL

DAY TOUR (FROM 800 TO 1600)

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
1	BIT O.D. 30	
1	BIT SUB	1.00
2	D.C. 177	18.69
1	STAB 308	1.30
1	D.C. 177	9.46
1	X.O. 177	0.75
5	D.C. 159	46.83
1	JAR 159	4.76
3	D.C. 159	28.38
1	X.O. 159	0.26
4	D.C. 121	38.09
1	X.O.	0.3
	D.P. STANDS	
8	D.P. SINGLES	76.13
KELLY DOWN		3.65
TOTAL		229.90
WT. OF D.C.	16	
WT. OF STRING	17	

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	SMITH
TYPE	GTCS1
SERIAL NO.	6022344
JETS	20 X3
DEPTH OUT (m)	
DEPTH IN (m)	24
TOTAL DRILLED (m)	205
TOTAL HRS RUN	19.75

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

HOLE CONDITION
HOLE DRAG 3 UP 1 DOWN
TORQUE AT BOTTOM 1879
FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE: WATER BASED X OIL BASED ☐

TIME	0815	1100	1515
DENSITY (kg/m3)	1100	1120	1150
FUNNEL VISCOSITY	36	34	40
FLUID LOSS (cm3)			
pH	8	8	8

MUD MATERIALS ADDED

PRODUCT	AMOUNT	UNIT
SAWDUST	25	SX
GEL	45	SX
DRILLING DETERGENT	1	PAILS
HUMALITE	2	SX

SOLIDS CONTROL — CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY
8	1170	1130	1690

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

BOILERS

1		2	
HRS RUN	8	HRS RUN	8
BOILER pH	10.5	BOILER pH	10.5
STACK TEMP.	425	STACK TEMP.	435

CIRCULATION PRESSURE kPa: 6060

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152	80	152	100

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
123	0.25	
151	1	
180	1.25	
208	0.75	

DRILLER SIGNATURE: JOSH SLEDZ

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
146	208	D	200	4.5

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	0900	1.00	2	DRILL 311mm HOLE FROM 146m TO 160m
0900	0915	0.25	10	DEVIATION SURVEY
0915	1115	2.00	2	DRILL 311mm HOLE FROM 160m TO 180m
1115	1130	0.25	10	DEVIATION SURVEY
1130	1345	2.25	2	DRILL 311mm HOLE FROM 180m TO 208m
1345	1400	0.25	10	DEVIATION SURVEY
1400	1600	2.00	2	DRILL 311mm HOLE FROM 208m TO 229

NOTES: FUNCTION CROWN SAVER, AIRHORN, HYDRIL(7sec), HCR(3sec)
REVIEW JSA- B-1 (BOILER BLOWDOWN), G-13 (STEAM USE), A-1 (WORKING AT HIEGHTS)

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MPL	MACP
GREEN HAND PROGRAM	25	

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 4
DRIVERS:

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER	✓	JOSH SLEDZ	12.00			JS
DERRICK HAND	✓	JAKE HINKLEY	12.00			JH
MOTOR HAND	✓	ADAM MATTIES	12.00			AM
FLOOR HAND	✓	TROY LAMBERT	12.00			TL
LEASE HAND		BRANDON DONNELLY	12.00			BD
LEASE HAND	8+4	JONATHAN AYAH	12.00			JA
W.S.S.C.		TONY OGILVIE	12.00			TO

-8-4PL

EVENING TOUR (FROM 1600 TO 2400)

NO.	DRILLING ASSEMBLY AT END OF TOUR	LENGTH
1	BIT O.D. 30	
1	BIT SUB	1.00
2	D.C. 177	18.69
1	STAB 308	1.30
1	D.C. 177	9.46
1	X.O. 177	0.75
5	D.C. 159	46.83
1	JAR 159	4.76
3	D.C. 159	28.38
1	X.O. 159	0.26
4	D.C. 121	38.09
1	X.O	0.3
	D.P. STANDS	
10	D.P. SINGLES	95.27
KELLY DOWN		6.61
TOTAL		252.00
WT. OF D.C.	16	
WT. OF STRING	19	

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	SMITH
TYPE	GTCS1
SERIAL NO	6022344
JETS	20 X3
DEPTH OUT (m)	252
DEPTH IN (m)	24
TOTAL DRILLED (m)	228.00
TOTAL HRS RUN	22.25

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

HOLE CONDITION
HOLE DRAG 5 up 3 dwn
TORQUE AT BOTTOM 2289
FILL ON BOTTOM (m) 1

MUD RECORD — MUD TYPE: WATER BASED X OIL BASED ☐

TIME	2345		
DENSITY (kg/m3)	1150		
FUNNEL VISCOSITY	56		
FLUID LOSS (cm3)			
pH	8		

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	HRS RUN	8
BOILER pH	10	BOILER pH	10
STACK TEMP.	480	STACK TEMP.	560

CIRCULATION PRESSURE kPa: 6813

PUMP NO. 1 LINER SIZE	SPM	PUMP NO. 2 LINER SIZE	SPM
152		152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS

DEPTH (m)	DEVIATION	DIRECTION
237	0.75	

DRILLER SIGNATURE: MARK CLIFFORD T3

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
229	252	D	200	7

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1645	0.75	2	DRILL 311mm HOLE FROM 229m TO 237m
1645	1700	0.25	10	DEVIATION SURVEY
1700	1745	0.75	2	DRILL 311mm HOLE FROM 237m TO 247m
1745	1815	0.50	5	CONDITION MUD & CIRCULATE
1815	2245	4.50	6	P.O.O.H TO 178mm D.C.
2245	2345	1.00	2	DRILL 311mm HOLE FR 247m to 252m
2345	2400	0.25	5	CONDITION MUD & CIRCULATE

NOTES: FUNCTION CROWN SAVER, MOTOR KILLS HYFRIL 6sec HDR 3sec
REVIEW JSA- D45(WIPER TRTIP SURFACE) G44(CIRCULATING) D52(HANDLING X/O'S)

SPECIAL EVENT / TIME / DEPTH

SAFETY TOPIC	MPL	MACP
WIPER TRIP SURFACE		

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT

CREW SAFETY DAYS: 4
DRIVERS: MIKE STRANG

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		MARK CLIFFORD T3	4.00			MC
DERRICK HAND		JONOTHON SLEDZ	4.00			JS
MOTOR HAND		BRAD TARR	4.00			BT
FLOOR HAND		STANLEY GRAHAM	4.00			SG
LEASE HAND		GERRY MORASH	4.00			GM

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection	SM	HU
(2.) Detailed Inspection - Weekly (Using Check List)	SM	HU
(3.) H2S Sign Posted If Required		
(4.) Well License & Stick Diagram Posted	SM	HU
(5.) Flare Lines Staked	SM	HU
(6.) BOP Drills Performed	SM	HU
(7.) Visually Inspect BOPs- Flare Lines & Degasser Lines	SM	HU
(1.) Rig Site Health & Safety Meeting (once/week/month)		HU
(2.) CAODC Rig Safety Inspection Checklist (one/fortnight)		HU
(3.) Mast Inspection before Raising or Lowering		HU
(4.) Crown Saver Checked		HU
(5.) Motor Kills Checked		HU

YEAR	MONTH	DAY
2008	3	6

RIG NO. 14 — RIG: HUSKY OIL OPERATIONS LIMITED — BOILER

TEMPERATURE: -20 — CURRENT CONDITIONS: CLOUDY — WIND DIRECTION: N.E. — ROAD CONDITION: ICE

LAST CASING TUBING OR LINER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSO HEAD	SET AT (m)

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
DP	102	20.84	X	85	130	4"FH	125	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5"IF	14	F800	EMSCO	229
DC	159	134.66	E	60	159	4.5XH	12			

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM.	457		
TOUR SHEET SERIAL NUM.	AKTA14_20080306_1B		
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2		

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 WELD	23	24	25	26
MORN														6.75							0.25	1.0				
DAY	6.0					1.0	0.25								0.25						0.5					
EVE		5.5			0.5	1.25	0.25			0.5																
TOTAL	6.00	5.50			0.50	2.25	0.50			0.50				6.75	0.25						0.75	1.00				

	TOTALS
1	8.00
2	8.00
3	8.00
4	24.00

NO.	TYPE	TYPE
1	DOUBLE LIFE	
SCREENS CHANGED	YES	NEW USED: NEW
TOP	50	TOP
MIDDLE	50	MIDDLE
BOTTOM	50	BOTTOM

SHALE SHAKERS	REPAIR / SERVICES	MORN	DAY	EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	6

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	3

MORNING TOUR

FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		JASON MCINTOSH	8.00			JM
LEASE HAND		MIKE STRANG	8.00			MS

RATE SCHEDULE: X — REGULAR — REPAIR — INVERT

CREW SAFETY DAYS: 3 — DRIVERS: MIKE STRANG

DAY TOUR

FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		JOSH SLEDZ	12.00			JS
DERRICK HAND		JAKE HINKLEY	12.00			JH
MOTOR HAND		ADAM MATTIES	12.00			AM
FLOOR HAND		TROY LAMBERT	12.00			TL
LEASE HAND		BRIAN FAULDS	12.00			BF
W.S.S.C.		TONY OGILVIE	12.00			TO

RATE SCHEDULE: X — REGULAR — REPAIR — INVERT

CREW SAFETY DAYS: 3 — DRIVERS:

EVENING TOUR

FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	4.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND		LAMONT LESLIE	4.00			LL
FLOOR HAND		JASON MCINTOSH	4.00			JM
LEASE HAND		MIKE STRANG	4.00			MS

RATE SCHEDULE: X — REGULAR — REPAIR — INVERT

CREW SAFETY DAYS: 3 — DRIVERS: MIKE STRANG

MORNING TOUR

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

KELLY DOWN / TOTAL / WT. OF D.C. / WT. OF STRING

D.P. STANDS / D.P. SINGLES

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

BOILERS: HRS RUN 8 | HRS RUN 8 — BOILER pH 10 | BOILER pH 10 — STACK TEMP 425 | STACK TEMP 450

CIRCULATION PRESSURE kPa: 152 — PUMP NO. 1: LINER SIZE, SPM — PUMP NO. 2: LINER SIZE, SPM

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

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	22	WELD FLANGE
100	115	0.25	21	SAFETY MEETING PRIOR TO NIPPLE UP DIVERTER
115	800	6.75	14	NIPPLE UP 13 5/8" SPOOL,DSA,DIVERTER,DEGASSER LINE
				FUNCTION TEST DIVERTER

NOTES: FUNCTION CROWN SAVER,MOTORKILLS, AIRHORN,POPVALVES, JSA-NIPPLE UP DIVERTER,PRESS.TESTING,HANDLING TUBULARS

SPECIAL EVENT / TIME / DEPTH: — SAFETY TOPIC: NIPPLE UP — MDH: — MACP: 0

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT	30	
1	BIT SUB		1.00

KELLY DOWN / TOTAL / WT. OF D.C. / WT. OF STRING

D.P. STANDS / D.P. SINGLES

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	
TYPE	GTCS1
SERIAL NO.	6022344
JETS	20 X3
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	1500
DENSITY (kg/m3)	1020
FUNNEL VISCOSITY	28
FLUID LOSS (cm3)	
pH	8

MUD MATERIALS ADDED: SAWDUST | 18 | SX

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

BOILERS: HRS RUN 8 | HRS RUN 8 — BOILER pH 10.5 | BOILER pH 10.5 — STACK TEMP 430 | STACK TEMP 420

CIRCULATION PRESSURE kPa: 152 — PUMP NO. 1: LINER SIZE, SPM — PUMP NO. 2: LINER SIZE, SPM

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0800	1400	6.00	1	RIG UP DIVERTER, FLARE LINE, SPOT PIPE TUBS
1400	1415	0.25	7	RIG SERVICE
1415	1515	1.00	6	MAKE UP B.H.A. AND R.I.H. TAGED CEMENT @ 24m
1515	1530	0.25	15	PRESSURE TEST DIVERTER 100psi FOR 10 min
1530	1545	0.25	21	PRE SPUD WITH RIG CREW AND HUSKY REP
1545	1600	0.25	21	DIVERTER DRILL-HYDRIL CLOSED-6SEC.HCR OPEN-1SEC.

NOTES: FUNCTION TEST CROWN SAVER, HYDRIL(7sec), HCR(3sec), AIR HORN

SPECIAL EVENT / TIME / DEPTH: — SAFETY TOPIC: SLIPS AND TRIPS — MDH: — MACP:

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	O.D.	LENGTH
1	BIT		
1	BIT SUB		1.00
2	D.C.	177	18.69
1	STAB		1.30
1	D.C.	177	9.46
1	X.O.	177	0.75
4	D.C.	159	37.26

KELLY DOWN 2.24 / TOTAL 71.00 / WT. OF D.C. 12 / WT. OF STRING 12

D.P. STANDS / D.P. SINGLES

BIT RECORD

BIT NO.	1
SIZE	311
IADC CODE	
MANUFACTURER	SMITH
TYPE	GTCS1
SERIAL NO.	6022344
JETS	20 X3
DEPTH OUT (m)	
DEPTH IN (m)	24
TOTAL DRILLED (m)	47.00
TOTAL HRS RUN	5.50

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

HOLE CONDITION: HOLE DRAG 1UP 1DOWN / TORQUE AT BOTTOM 951 / FILL ON BOTTOM (m)

MUD RECORD — MUD TYPE: — WATER BASED ☐ OIL BASED ☐

TIME	1900	2130	2300
DENSITY (kg/m3)	1010	1010	1010
FUNNEL VISCOSITY	30	30	31
FLUID LOSS (cm3)			
pH	9	9	9

MUD MATERIALS ADDED: DRILLING DETERGENT | 1 | PAILS — SAWDUST | 8 | SX

SOLIDS CONTROL — CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY: 8 | 1010 | 1000 | 1720

BOILERS: HRS RUN 8 | HRS RUN 8 — BOILER pH 10.5 | BOILER pH 10.5 — STACK TEMP 430 | STACK TEMP 420

CIRCULATION PRESSURE kPa: 3419 — PUMP NO. 1: LINER SIZE 152, SPM 85 — PUMP NO. 2: LINER SIZE 152, SPM 100

REDUCED PUMP SPEED: @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION: 42 | 0.75 | W/L — 61 | 0.75 | W/L

DRILLER SIGNATURE: J.D. HINKLEY

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB
24	71	D	120	4.0

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	1830	2.50	2	DRILL 311mm HOLE FROM 24m TO 41m
1830	1845	0.25	7	RIG SERVICE/FUNCTION CROWN SAVER AND MOTOR KILLS(3SEC)
1845	1945	1.00	2	DRILL 311mm HOLE FROM 41m TO 51M
1945	2015	0.50	5	CONDITION MUD & CIRCULATE
2015	2130	1.25	6	PULL 2 D.C. TO PUT SURFACE STABALIZER ON B.H.A
2130	2330	2.00	2	DRILL 311mm HOLE FR 51M TO 71M
2330	2400	0.50	10	ACCUM. SURVEY

NOTES: SPUDDED WELL AT 1600 HRS MAR.6/08. FUNCTION HYDRILL(7SEC) HCR(3SEC) REVIEW JSA'S A9 DRIVE TO AND FROM JOBSITE C8 HOISTING TUBULARS D2 MOUSE AND RAT HOLES

SPECIAL EVENT / TIME / DEPTH: — SAFETY TOPIC: FLOOR WORK — MDH: 13 — MACP: 0

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR: HUSKY OIL OPERATIONS LIMITED	CONTRACTOR NAME: AKITA DRILLING LTD.
SURFACE LO[redacted] L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: HALLOCK / UNRAU

DAILY CHECKS

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

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

YEAR 2008 MONTH 3 DAY 5
RIG NO. 14
RIG 188 FUEL @ 06:00 HRS 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	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH

SPUD DATE: 2008/03/05	TIME: 22:00
RIG RELEASE:	TIME:
WELL TYPE:	RE-ENTRY:
OPERATOR'S AFE: US-28423	
KELLY BSHG:	OP FUEL:
CONTRACTOR'S JOB NUM: 457	
TOUR SHEET SERIAL NUM: AKTA14_20080305_1D	
VENDOR SOFTWARE VERSION: EDR_3-2-8_HF1 ETS 2.2	

CADDC

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 WELD	23	24	25	26
MORN	8.0																									
DAY	7.75																				0.25					
EVE	5.75																				0.25	2.0				
TOTAL	21.50																				0.50	2.0				

TOTALS
8.00
8.00
8.00
24.00

STABILIZERS NO.	TYPE	TYPE
SCREENS CHANGED	NEW USED	
TOP	TOP	
MIDDLE	MIDDLE	
BOTTOM	BOTTOM	

RENTALS / SERVICES	MORN	DAY	EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	5

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
MIC HALLOCK	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	2

MORNING TOUR

NO.	DRILLING ASSEMBLY LAYED DOWN (LAST BHA 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

BOILERS: 1 | 2; HRS RUN; BOILER pH; STACK TEMP

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

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

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0800	8.00	1	RAISE DERRICK,RIG UP MONKEY BOARDS,HOOK UP WATER AND STEAM LINES,
				AND WAIT ON DAY LIGHT TO SPOT REST OF THE BUILDINGS

NOTES: REVIEW JSA'S-F12 CLIMBING DERRICK F8 SERVICE CROWN R8 RIG UP MONKEY BOARDS

SPECIAL EVENT / TIME / DEPTH | SAFETY TOPIC: HAMMERING UP | MEN | MACP

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS: 2		DRIVERS: MIKE STRANG				

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		J.D. HINKLEY	9.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	9.00			JV
MOTOR HAND		LAMONT LESLIE	9.00			LL
FLOOR HAND		JASON MCINTOSH	9.00			JM
LEASE HAND		MIKE STRANG	8.00			MS

8-4 Fr

DAY TOUR

NO.	DRILLING ASSEMBLY LAYED DOWN (LAST BHA 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

BOILERS: 1 | 2; HRS RUN; BOILER pH; STACK TEMP

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

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

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	0815	0.25	21	SAFETY MEETING WITH RIG CREW, TRUCKERS,CAT OPERATORS, CONSTRUCTION CREW,
				WATER HAULERS, AND HUSKY REPS
0815	1600	7.75	1	SPOT MUD PUMPS, CENTRAFUGE, SLOP BIN, CATWALK, BOILERS, FINISH RIGING UP
				FUEL, WATER, AND AIR LINES, RIG UP PRE-FABS. WAIT FOR ICE ROAD TO BE REPAIRED
				TO BRING IN THE REST OF THE RIG.

NOTES: REVIEW J.S.A.-A-10(RIGGING UP IN ARCTIC CONDITIONS), R-2 (SPOTTING BUILDINGS),
A-5 (LOCK-OUT PROCEDURE)

SPECIAL EVENT / TIME / DEPTH | SAFETY TOPIC: PINCH POINTS | MEN | MACP

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS: 2		DRIVERS: MIKE STRANG				

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		JOSH SLEDZ	12.00			JS
DERRICK HAND		JAKE HINKLEY	12.00			JH
MOTOR HAND		ADAM MATTIES	12.00			AM
FLOOR HAND		TROY LAMBERT	12.00			TL
LEASE HAND		BRIAN FAULDS	12.00			BF
W.S.S.C.		TONY OGILVIE	12.00			TO

8-4 Fr

EVENING TOUR

NO.	DRILLING ASSEMBLY LAYED DOWN (LAST BHA 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

BOILERS: 1 | 2; HRS RUN 8 | 8; BOILER pH 10 | 10; STACK TEMP 400 | 525

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

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

REDUCED PUMP SPEED @ @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2145	5.75	1	RIG UP BOILERS,PUMPS,BUILDINGS
2145	2200	0.25	21	SAFETY MEETING W/CREW AND WELDER
2200	2400	2.00	22	CUT CONDUCTOR, WELD ON FLANGE+BELL NIPPLE

NOTES: REVIEW JSA'S G1 CONSTRUCTING DIVERTER G42 LOADER OPERATION G49 USING STEAM
BOILERS ON LINE @1600HRS

SPECIAL EVENT / TIME / DEPTH | SAFETY TOPIC: NIPPLE UP DIVERTER | MEN | MACP

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS: 2		DRIVERS: MIKE STRANG				

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		J.D. HINKLEY	4.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND		LAMONT LESLIE	4.00			LL
FLOOR HAND		JASON MCINTOSH	4.00			JM
LEASE HAND		MIKE STRANG	4.00			MS

8 in
8 in

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE L[illegible]N	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

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.) Meet Inspection before Raising or Lowering
(4.) Crown Saver Checked
(5.) Motor Kills Checked

	OPR	R.M.
1		
2		
3		
4		
5		
6		
7		
1		
2		
3		
4		
5		

YEAR 2008 MONTH 3 DAY 4
RIG NO. 14
TIME IN 24 HOURS
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	PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	
TIME	
WELL TYPE	
RE-ENTRY	
OPERATOR'S AFE	US-28423
KELLY BSHG	
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080304_1B
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2

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 WAIT ON DAYLIGHT	23	24	25	26
MORN																						8.0				
DAY	8.0																									
EVE	7.75																				0.25					
TOTAL	15.75																				0.25	8.00				

TOTALS	SPARE SHAKER SCREENS			RENTALS / SERVICES	MORN	DAY	EVE
8.00	NO.	TYPE	TYPE				
8.00	SCREENS CHANGED		NEW USED				
8.00	TOP		TOP				
24.00	MIDDLE		MIDDLE				
	BOTTOM		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	4

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	1

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER	✓	J.D. HINKLEY	8.00			JH
DERRICK HAND	✓	JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND	✓	LAMONT LESLIE	8.00			LL
FLOOR HAND	✓	JASON MCINTOSH	8.00			JM
LEASE HAND	✓	MIKE STRANG	8.00			MS

✓ – 8-4 FL

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT ☐

CREW SAFETY DAYS: 1

DRIVERS:

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER	X	JOSH SLEDZ	12.00			JS
DERRICK HAND	X	JAKE HINKLEY	12.00			JH
MOTOR HAND	X	ADAM MATTIES	12.00			AM
FLOOR HAND	X	TROY LAMBERT	12.00			TL
LEASE HAND	X	BRIAN FAULDS	12.00			BF
W.S.S.C.	X	TONY OGILVIE	12.00			TO

X – 8-4 FL

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT ☐

CREW SAFETY DAYS: 1

DRIVERS:

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		J.D. HINKLEY	4.00			JH
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND		LAMONT LESLIE	4.00			LL
FLOOR HAND		JASON MCINTOSH	4.00			JM
LEASE HAND		MIKE STRANG	4.00			MS

RATE SCHEDULE: X REGULAR ☐ REPAIR ☐ INVERT ☐

CREW SAFETY DAYS: 1

DRIVERS: MIKE STRANG

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT BEGIN 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 ☐	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		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP.		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: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
000	800	8.00	22	WAIT ON DAYLIGHT TO MOVE RIG IN

NOTES:

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

DAY TOUR

NO.	DRILLING ASSEMBLY (AT BEGIN 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 ☐	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		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP.		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: JOSH SLEDZ

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1600	8.00	1	HAUL IN LOADS 1 AT A TIME

NOTES:

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

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT BEGIN 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 ☐	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		HRS RUN	
BOILER pH		BOILER pH	
STACK TEMP.		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: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2345	7.75	1	RIG UP WINCH LINES,DRILL LINE,HYDRUALIC LINES,AND GET READY TO RAISE DERRICK
2345	2400	0.25	21	SAFETY MEETING PRIOR TO RAISING DERRICK

NOTES: REVIEW JSA'S-A6 WORKING WITH LADDERS F14 RAISE DERRICK A1 WORKING @ HIEGHTS

SPECIAL EVENT / TIME / DEPTH | SAFETY TOPIC: RAISING DERRICK | MEHL | MACP

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR: HUSKY OIL OPERATIONS LIMITED	CONTRACTOR NAME: AKITA DRILLING LTD.
SURFACE LOCATION: L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: HALLOCK / UNRAU

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted if Required		
(4.) Well Licence & Sitk 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 Safat Inspection Checklist (one/rig/month)		
(3.) Mast Inspection before Raising or Lowering		
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2008 MONTH 3 DAY 3
RIG NO. 14
TIME OF CREWS: RIG 95 BOILER 141
TEMPERATURE -12
CURRENT CONDITIONS CLEAR
WIND DIRECTION CALM
ROAD CONDITION ICE

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)
	177.8	166	25.3	IPSCO	H -40	9	126.98	4.25	126

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
DP	102	20.84	X	85	130	4" FH	56	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5" IF	13			
DC	159	134.66	E	60	159	4.5" XH	12			

SPUD DATE	2008/03/05
TIME	22:00
RIG RELEASE	
TIME	
WELL TYPE	VERT.
RE-ENTRY	NO
OPERATOR'S AFE	US-28423
KELLY BSHG	4.25
OP FUEL	
CONTRACTOR'S JOB NUM	457
TOUR SHEET SERIAL NUM	AKTA14_20080303_1E
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2

PASON DATAHUB

CODE HRS	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 MOVE RIG	23	24	25	26
MORN																										
DAY																						8.0				
EVE																										
TOTAL																						8.0				

TOTALS	SHALE SHAKER(S) NO. 1 TYPE DOUBLE LIFE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
	SCREENS CHANGED	NEW/USED	LOADER	8	8	8
8.00	TOP 84	TOP	4" TRASH PUMP	8	8	8
	MIDDLE 50	MIDDLE	FLARE TANK	8	8	8
8.00	BOTTOM 50	BOTTOM				

MORNING TOUR

NO.	DRILLING ASSEMBLY LAYED DOWN 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 ☐ | 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 | HRS RUN; BOILER pH | BOILER pH; STACK TEMP | 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

DRILLER SIGNATURE

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

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES:

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

DAY TOUR

NO.	DRILLING ASSEMBLY LAYED DOWN 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 ☐ | 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 | HRS RUN; BOILER pH | BOILER pH; STACK TEMP | 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

DRILLER SIGNATURE: HALLOCK / UNRAU

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	22	MOVE RIG TO NORMAN WELLS, CREWS PAID STAND-BY 8 HRS

NOTES:

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

EVENING TOUR

NO.	DRILLING ASSEMBLY LAYED DOWN 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 ☐ | 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 | HRS RUN; BOILER pH | BOILER pH; STACK TEMP | 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

DRILLER SIGNATURE

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

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES:

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

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	3

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	X YES ☐ NO	68

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 68 — DRIVERS

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER ✓		J.D. HINKLEY	8.00	-4		JH
DERRICK HAND ✓		JEFF VANWALLEGHEM	8.00	-4		JV
MOTOR HAND ✓		LAMONT LESLIE	8.00	-4		LL
LEASE HAND ✓		MIKE STRANG	8.00	-4		MS
LEASE HAND ✓		BRIAN FAULDS	8.00	-4		BF
DRILLER X		JOSH SLEDZ	8.00	-4		JS
DERRICK HAND X		JAKE HINKLEY	8.00	-4		JH
MOTOR HAND X		ADAM MATTIES	8.00	-4		AM
FLOOR HAND ✓		TROY LAMBERT	8.00	-4		TL
FLOOR HAND ✓		JASON MCINTOSH	8.00	-4		JM
W.S.S.C. ✓		TONY OGILVIE	8.00	-4		TO

RATE SCHEDULE X | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 68 — DRIVERS: BRIAN FAULDS

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
XX	—	16-8 FL				

RATE SCHEDULE | REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 68 — DRIVERS

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	HALLOCK / UNRAU

DAILY CHECKS (OPR / R.M.)

- (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
2008	3	2

RIG NO. 14 — RIG 95 — BOILER 141 — TEMPERATURE -12 — CURRENT CONDITIONS CLEAR — WIND DIRECTION CALM — ROAD CONDITION ICE

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)
	177.8	166	25.3	IPSCO	H-40	9	126.98	4.25	126

	DC / DP	DC / DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
	DP	102	20.84	X	85	130	4" FH	56
	DC	121	69.4	E	55	127	3.5" IF	13
	DC	159	134.66	E	60	159	4.5" XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG	4.25	OP FUEL	
CONTRACTOR'S JOB NUM.	457		
TOUR SHEET SERIAL NUM	AKITA14_20080302_1D		
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2		

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																										
DAY																										
EVE																										
TOTAL																										

TOTALS	SHALE SHAKER(S) NO.	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
	1	DOUBLE LIFE	LOADER	8	8	8
	SCREENS CHANGED	NEW USED	4" TRASH PUMP	8	8	8
	84 TOP	TOP	FLARE TANK	8	8	8
	50 MIDDLE	MIDDLE				
	50 BOTTOM	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	2

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	YES [ ] NO [X]	67

MORNING TOUR — FROM 0 TO 800

NO.	DRILLING ASSEMBLY (LISTED OUTSIDE IN) 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 [ ] 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 | HRS RUN; BOILER pH | BOILER pH; STACK TEMP | 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

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES:

DRILLER SIGNATURE; SPECIAL EVENT; TIME / DEPTH; SAFETY TOPIC; MPL; MHP

RATE SCHEDULE		REGULAR		REPAIR		INVERT
CREW SAFETY DAYS		DRIVERS				
67						

CREW	SOC INS. NO.	NAME	HRS		YES	NO

DAY TOUR — FROM 800 TO 1600

NO.	DRILLING ASSEMBLY (LISTED OUTSIDE IN) 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 [ ] 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 | HRS RUN; BOILER pH | BOILER pH; STACK TEMP | 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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1600	8.00		STAND BY MOVE RIG UP TO NORMAN WELLS

NOTES:

DRILLER SIGNATURE: MIC HALLOCK; SPECIAL EVENT; TIME / DEPTH; SAFETY TOPIC; MPL; MHP

RATE SCHEDULE	X	REGULAR		REPAIR		INVERT
CREW SAFETY DAYS		DRIVERS				
67		BRIAN FAULDS				

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER	✓	J.D. HINKLEY	8.00	-4		JH
DERRICK HAND	✓	JEFF VANWALLEGHEM	8.00	-4		JV
MOTOR HAND	✓	LAMONT LESLIE	8.00	-4		LL
FLOOR HAND	✓	MIKE STRANG	8.00	-4		MS
LEASE HAND	✓	BRIAN FAULDS	8.00	-4		BF
DRILLER	X	JOSH SLEDZ	8.00	-4		JS
DERRICK HAND	X	JAKE HINKLEY	8.00	-4		JH
MOTOR HAND	X	ADAM MATTIES	8.00	-4		AM
FLOOR HAND	X	TROY LAMBERT	8.00	-4		TL
FLOOR HAND	✓	JASON MCINTOSH	8.00	-4		JM
W.S.S.C.	✓	TONY OGILVIE	8.00	-4		TO

24 H

EVENING TOUR — FROM 1600 TO 2400

NO.	DRILLING ASSEMBLY (LISTED OUTSIDE IN) 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 [ ] 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 | HRS RUN; BOILER pH | BOILER pH; STACK TEMP | 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

TIME LOG: FROM | TO | ELAPSED TIME | CODE | DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

NOTES:

DRILLER SIGNATURE; SPECIAL EVENT; TIME / DEPTH; SAFETY TOPIC; MPL; MHP

RATE SCHEDULE		REGULAR		REPAIR		INVERT
CREW SAFETY DAYS		DRIVERS				
67						

CREW	SOC INS. NO.	NAME	HRS		YES	NO
X	-8-4	FLOOR				
X	-8-4	LH				

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR: HUSKY OIL OPERATIONS LIMITED	CONTRACTOR NAME: AKITA DRILLING LTD.
SURFACE LOCATION: L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: HALLOCK / UNRAU

DAILY CHECKS

	OPR	R.M.
(1.) Daily Walk Around Inspection		
(2.) Detailed Inspection - Weekly (Using Check List)		
(3.) H2S Signs Posted If Required		
(4.) Well License & Block 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.) Meet inspection before Raising or Lowering		
(4.) Crown Saver Checked		
(5.) Motor Kills Checked		

YEAR 2008 MONTH 3 DAY 1
RIG NO. 14
RIG 95 BOILER 141
TEMPERATURE -12
CURRENT CONDITIONS CALM
WIND DIRECTION
ROAD CONDITION ICE

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)
	177.8	166	25.3	IPSCO	H-40	9	126.98	4.25	126

DC/DP	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DP	102	20.84	X	85	130	4" FH	56
DC	121	69.4	E	55	127	3.5" IF	13
DC	159	134.66	E	60	159	4.5" XH	12
TOTALS							

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG	4.25	OP FUEL	
CONTRACTOR'S JOB NUM.	457		
TOUR SHEET SERIAL NUM.	AKTA14_20080301_1G		
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2		

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 DRILL&STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MEETING	22	23	24	25	26
MORN																						8.0				
DAY	8.0																									
EVE																										
TOTAL	8.00																					8.00				

	MORN	DAY	EVE
8.00			
8.00			
16.00			

SINGLE SHAKERS			RENTALS / SERVICES	MORN	DAY	EVE
NO. 1	TYPE DOUBLE LIFE	TYPE	LOADER	8	8	8
SCREENS CHANGED		NEW USED	4" TRASH PUMP	8	8	8
TOP 84		TOP	FLARE TANK	8	8	8
MIDDLE 50		MIDDLE				
BOTTOM 50		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	3	1

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
HALLOCK / UNRAU	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	YES [ ] NO [X]	66

MORNING TOUR

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 mHR
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
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 1: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY; CENTRIFUGE 2: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY
BOILERS: 1 HRS RUN 8 | 2 HRS RUN; BOILER pH; 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
DRILLER SIGNATURE: MIC HALLOCK

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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0800	8.00	22	wait on trucks to move to norman wells

NOTES:
SPECIAL EVENT / TIME / DEPTH | SAFETY TOPIC | MSL | MACP

RATE SCHEDULE	X	REGULAR		REPAIR		INVENT.
CREW SAFETY DAYS		DRIVERS				
66						

MORNING TOUR FROM 0 TO 800 INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO

DAY TOUR

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 mHR
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
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 1: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY; CENTRIFUGE 2: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY
BOILERS: 1 HRS RUN 8 | 2 HRS RUN; BOILER pH; 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
DRILLER SIGNATURE: J.D. HINKLEY

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	REMOVE DERRICK,HOOK UP LOADS,MOVE RIG

NOTES: JOSH SLEDZ, JAKE HINKLEY,ADAM MATTIES,TROY LAMBERT, PAID STAND-BY 8 HRS
SPECIAL EVENT / TIME / DEPTH | SAFETY TOPIC | MSL | MACP

RATE SCHEDULE	X	REGULAR		REPAIR		INVENT.
CREW SAFETY DAYS		DRIVERS				
66		BRIAN FAULDS				

DAY TOUR FROM 800 TO 1600 INJURIES

CREW	SOC INS. NO.	NAME	HRS	'S	NO
CREWCAB DRIVER		JASON E. UNRAU	12.00	8+4	JU
DRILLER ✓	✓X	J.D. HINKLEY	12.00		JH
DERRICK HAND ✓	✓X	JEFF VANWALLEGHEM	12.00		JV
MOTOR HAND ✓	✓X	LAMONT LESLIE	12.00		LL
FLOOR HAND ✓	✓X	MIKE STRANG	12.00		MS
LEASE HAND ✓	✓X	BRIAN FAULDS	12.00		BF
DRILLER .	X	JOSH SLEDZ	8.00	4	JS
DERRICK HAND	X	JAKE HINKLEY	8.00	4	JH
MOTOR HAND	X	ADAM MATTIES	8.00	4	AM
FLOOR HAND ✓	X	TROY LAMBERT	8.00	4	TL
W.S.S.C.	✓X	TONY OGILVIE	8.00	4	TO

EVENING TOUR

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 mHR
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
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 1: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY; CENTRIFUGE 2: HOURS RUN | INTAKE DENSITY (kg/m3) | OVER FLOW DENSITY | UNDER FLOW DENSITY
BOILERS: 1 HRS RUN 8 | 2 HRS RUN; BOILER pH; 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
DRILLER SIGNATURE: MIC HALLOCK

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

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
				NO TOUR

NOTES:
SPECIAL EVENT / TIME / DEPTH | SAFETY TOPIC | MSL | MACP

RATE SCHEDULE	X	REGULAR		REPAIR		INVENT.
CREW SAFETY DAYS		DRIVERS				
66						

EVENING TOUR FROM 1600 TO 2400 INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
✓X	FL	-8 Reg			
✓	LH	-4 Reg			

LICENCE NO.	WELL NAME & NO
	HUSKY et al Keele River L-52
OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.
SURFACE LOCATION	UNIQUE ID
L-52	
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
SAM MACHNEE	MIC HALLOCK

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.
SM		MH

YEAR 2008 MONTH 2 DAY 29
RIG NO. 14
FUEL : 08:30 HRS
RIG 95 BOILER 141
TEMPERATURE -12
CURRENT CONDITIONS CLEAR
WIND DIRECTION CALM
ROAD CONDITION ICE

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)
	177.8	166	25.3	IPSCO	H-40	9	126.98	4.25	126

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
DP	102	20.84	X	85	130	4" FH	56	F500	EMSCO	191
DC	121	69.4	E	55	127	3.5" IF	13			
DC	159	134.66	E	60	159	4.5" XH	12			

SPUD DATE	2008/03/05	TIME	22:00
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG	4.25	OP FUEL	
CONTRACTOR'S JOB NUM	457		
TOUR SHEET SERIAL NUM	AKTA14_20080229_1E		
VENDOR SOFTWARE VERSION	EDR_3-2-8_HF1 ETS 2.2		

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																						8.0				
DAY																						8.0				
EVE																						8.0				
TOTAL																						24.00				

TOTALS	SHALE SHAKER(S) NO. 1 TYPE DOUBLE LIFE	TYPE	RENTALS / SERVICES	MORN	DAY	EVE
8.00	SCREENS CHANGED	NEW USED	LOADER	8	8	8
8.00	84 TOP	TOP	4" TRASH PUMP	8	8	8
8.00	50 MIDDLE	MIDDLE	FLARE TANK	8	8	8
24.00	50 BOTTOM	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	2	29

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
MIC HALLOCK	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	YES [ ] NO [X]	65

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
FLOOR HAND		MIKE STRANG	8.00			MS

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 65

DRIVERS:

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
CREWCAB DRIVER		JASON E. UNRAU	12.00			JU
DRILLER		J.D. HINKLEY	12.00			JH
MOTOR HAND		LAMONT LESLIE	12.00			LL
CREWCAB DRIVER		BRIAN FAULDS	12.00			BF
DRILLER		JOSH SLEDZ	8.00			JS
DERRICK HAND		JAKE HINKLEY	8.00			JH
MOTOR HAND		ADAM MATTIES	8.00			AM
FLOOR HAND		TROY LAMBERT	8.00			TL
FLOOR HAND		JASON MCINTOSH	8.00			JM
W.S.S.C.		TONY OGILVIE	8.00			TO

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 65

DRIVERS: BRIAN FAULDS

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DERRICK HAND		JEFF VANWALLEGHEM	4.00			JV
FLOOR HAND		MIKE STRANG	4.00			MS

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 65

DRIVERS:

MORNING TOUR

NO.	DRILLING ASSEMBLY (AT END OF HOLE) 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 [ ] 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	HRS RUN
BOILER pH		BOILER pH
STACK TEMP		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

DRILLER SIGNATURE: MIC HALLOCK

METRES DRILLED

FROM	TO	D-R-C	RPM	WOB

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	800	8.00	22	WAIT ON TRUCKS TO MOVE TO NORMAN WELLS

NOTES:

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

DAY TOUR

NO.	DRILLING ASSEMBLY (AT END OF HOLE) 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 [ ] 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	HRS RUN
BOILER pH		BOILER pH
STACK TEMP		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

DRILLER SIGNATURE: JASON E. UNRAU

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	22	wait on trucks to move to norman wells

ST + Crews

16

NOTES: JOSH SLEDZ,JAKE HINKLEY,ADAM MATTIES,JASON MCINTOSH,TROY LAMBERT PAID STAND-BY 8

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

EVENING TOUR

NO.	DRILLING ASSEMBLY (AT END OF HOLE) 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 [ ] 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	HRS RUN
BOILER pH		BOILER pH
STACK TEMP		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

DRILLER SIGNATURE: MIC HALLOCK

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	22	wait on trucks to move to norman wells

2

NOTES:

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

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR: HUSKY OIL OPERATIONS LIMITED	CONTRACTOR NAME: AKITA DRILLING LTD.
SURFACE LO[redacted] L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: MIC HALLOCK

DAILY CHECKS

	DIRN	8 M	MN
(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.) Meet Inspection before Raising or Lowering			
(4.) Crown Saver Checked			
(5.) Motor Kills Checked			

YEAR	MONTH	DAY
2008	2	28

RIG NO.	LAST CASING TOWARD OR UNDER
14	

BOP TEST	BOILER
95	141

TEMPERATURE	
WEATHER CONDITIONS	
ROAD CONDITION	
CELLAR	
HEADS/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)
	177.8	168	25.3	IPSCO	H -40	9	126.98	4.25	126

	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
	DP	102	20.84	X	88	130	4" FH	56	F500	EMSCO	191
	DC	121	69.4	E	55	127	3.5" IF	13			
	DC	159	134.66	E	60	159	4.5" XH	12			

SPUD DATE		TIME	
RIG RELEASE		TIME	
WELL TYPE	VERT.	RE-ENTRY	NO
OPERATOR'S AFE	US-28423		
KELLY BSHG O.D.	4.25	OP FUEL	
CONTRACTOR'S JOB NUM	457		
TOUR SHEET SERIAL NUM	AKTA14_20080228_1C		
VENDOR SOFTWARE VERSION	EDR 3-2-8 HF1 ETS 2.2		

CAODC

PASON DATAHUB

CODE HRS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CONO MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DIR. 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	WAITING ON TRUCKS				
MORN																						8.0				
DAY																						8.0				
EVE																						8.0				
TOTAL																						24.00				

TOTALS	NO. 1	TYPE DOUBLE LIFE	TYPE	SHALE SHAKER (S)	RENTALS / SERVICES	MORN	DAY	EVE
8.00	SCREENS CHANGED		MESH USED		LOADER	8	8	8
8.00	84	TOP	TOP		4" TRASH PUMP	8	8	8
8.00	50	MIDDLE	MIDDLE		FLARE TANK	8	8	8
24.00	50	BOTTOM	BOTTOM					

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	2	28

OPERATOR	CONTRACTOR NAME
HUSKY OIL OPERATIONS LIMITED	AKITA DRILLING LTD.

RIG MANAGER	RIG NO.
MIC HALLOCK	14

PROVINCE	CAMP	RIG SAFETY DAYS
N.W.T.	YES [ ] NO [X]	64

MORNING TOUR

FROM 0 TO 800 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DERRICK HAND		JEFF VANWALLEGHEM	8.00		JV
FLOOR HAND		MIKE STRANG	8.00		MS

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 64 — DRIVERS:

DAY TOUR

FROM 800 TO 1600 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
CREWCAB DRIVER		JASON E. UNRAU	12.00		JU
DRILLER		J.D. HINKLEY	12.00		JH
MOTOR HAND		LAMONT LESLIE	12.00		LL
CREWCAB DRIVER		BRIAN FAULDS	12.00		BF

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 64 — DRIVERS: BRIAN FAULDS

EVENING TOUR

FROM 1600 TO 2400 — INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DERRICK HAND		JEFF VANWALLEGHEM	4.00		JV
FLOOR HAND		MIKE STRANG	4.00		MS

RATE SCHEDULE: X REGULAR | REPAIR | INVERT

CREW SAFETY DAYS: 64 — DRIVERS:

MORNING TOUR

NO.	DRILLING ASSEMBLY (AFTER 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

BOILERS: 1 HRS RUN 8 | 2 HRS RUN | BOILER pH | BOILER pH | STACK TEMP | 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: MIC HALLOCK

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0800	8.00	22	WAITING ON TRUCKS TO MOVE TO NORMAN WELLS

NOTES:

SPECIAL EVENT | TIME / DEPTH | SAFETY TOPIC: CLEANING RIG | MEL | MACP

2

DAY TOUR

NO.	DRILLING ASSEMBLY (AFTER 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

BOILERS: 1 HRS RUN 8 | 2 HRS RUN | BOILER pH | BOILER pH | STACK TEMP | 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: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1600	8.00	22	wait on trucks to move to norman wells

NOTES:

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

ST + Crews

4

EVENING TOUR

NO.	DRILLING ASSEMBLY (AFTER 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

BOILERS: 1 HRS RUN 8 | 2 HRS RUN | BOILER pH | BOILER pH | STACK TEMP | 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: MIC HALLOCK

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2400	8.00	22	WAIT ON TRUCKS TO MOVE TO NORMAN WELLS

NOTES

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

6

LICENCE NO.	WELL NAME & NO.
	HUSKY et al Keele River L-52
OPERATOR: HUSKY OIL OPERATIONS LIMITED	CONTRACTOR NAME: AKITA DRILLING LTD.
SURFACE L[redacted]N. L-52	UNIQUE ID
SIGNATURE OF OPERATOR'S REPRESENTATIVE: SAM MACHNEE	SIGNATURE OF CONTRACTOR'S RIG MANAGER: MIC HALLOCK

DAILY CHECKS (OPS | SUM.)

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

YEAR 2008 MONTH 2 DAY 27
RIG NO. 14
HRS. SINCE LAST BOP DRILL
BOILER 141
TEMPERATURE
WIND
PRESENT CONDITIONS
CLEAR
WIND DIRECTION
ON M
ROAD CONDITION
DR

LAST CASING STRING OK UNDER	O.D. (mm)	MIN I.D. (mm)	MASS (kg/m)	MAKE	GRADE	NO. of JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
	177.8	166	26.3	IPSCO	H-40	9	126.98	4.25	126

	DC/DP SIZE	MASS	GRADE	MINIMUM I.D.	T. JNT. O.D.	TYPE THREAD	NO. of JOINTS
DP	102	20.84	X	85	130	4" FH	56
DC	121	69.4	E	55	127	3.5" IF	13
DC	159	134.68	E	80	169	4.5" XH	12

PUMP TYPE	PUMP MANUFACTURER	STROKE LENGTH
F500	EMSCO	191

SPUD DATE	TIME
RIG RELEASE	TIME
WELL TYPE: VERT.	RE-ENTRY: NO
OPERATOR'S AFE: US-28423	
KELLY BUSHING: 4.25	GR FUEL
CONTRACTOR'S JOB NUM.: 457	
TOUR SHEET SERIAL NUM.: AKTA14_20080227_1D	
VENDOR SOFTWARE VERSION: EDR 3-2-8_HF1 ETS 2.2	

CAODC

PASON DATAHUB

CODE HO	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 WAITING ON	23 TRUCKS	24	25	26
MORN																						8.00				
DAY																						8.00				
EVE																						8.00				
TOTAL																						24.00				

TOTALS	SHALE SHAKER RIGS		REGULAR SERVICES	MORN	DAY	EVE
8.00	NO. 1 TYPE DOUBLE LIFE	TYPE	LOADER	8	8	8
8.00	SCREENS CHANGED / NEW USED		4" TRASH PUMP	8	8	8
8.00	TOP 84	TOP	FLARE TANK	8	8	8
	MIDDLE 50	MIDDLE				
24.00	BOTTOM 50	BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
HUSKY et al Keele River L-52	2008	2	27

OPERATOR: HUSKY OIL OPERATIONS LIMITED — CONTRACTOR NAME: AKITA DRILLING LTD.

RIG MANAGER: MIC HALLOCK — RIG NO. 14

PROVINCE: N.W.T. — CAMP: X YES ☐ NO — RIG SAFETY DAYS: 63

MORNING TOUR — FROM 0 TO 800

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER		J.D. HINKLEY	8.00	8		JH
DERRICK HAND		JEFF VANWALLEGHEM	8.00			JV
MOTOR HAND		LAMONT LESLIE	8.00			LL
FLOOR HAND		MIKE STRANG	8.00			MS
LEASE HAND		KIETH LAFERRIERE	8.00			KL

RATE SCHEDULE: X — REGULAR — REPAIR — INVENT

CREW SAFETY DAYS: 63 — DRIVERS

DAY TOUR — FROM 800 TO 1600

CREW	SOC INS. NO.	NAME	HRS		YES	NO
LEASE HAND		BRIAN FAULDS	12.00	8+4		BF
CREWCAB DRIVER		JASON E. UNRAU	12.00	8+4		JU

RATE SCHEDULE: X — REGULAR — REPAIR — INVENT

CREW SAFETY DAYS: 63 — DRIVERS: BRIAN FAULDS

EVENING TOUR — FROM 1600 TO 2400

CREW	SOC INS. NO.	NAME	HRS		YES	NO
DRILLER	X	J.D. HINKLEY	4.00	4		JH
DERRICK HAND	X	JEFF VANWALLEGHEM	4.00			JV
MOTOR HAND	X	LAMONT LESLIE	4.00			LL
FLOOR HAND	X	MIKE STRANG	4.00			MS

RATE SCHEDULE: X — REGULAR — REPAIR — INVENT

CREW SAFETY DAYS: 63 — DRIVERS

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 mHR

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 HRS RUN 8 | 2 HRS RUN | BOILER pH | STACK TEMP

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

CIRCULATION PRESSURE kPa: PUMP NO. 1 LINER SIZE / SPM; PUMP NO. 2 LINER SIZE / SPM

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0	0800	8.00	22	WAITING ON TRUCKS,CLEANING RIG,PREPAREING RIG FOR MOVE TO NOMAN WELLS

NOTES:

SPECIAL EVENT / TIME / DEPTH — SAFETY TOPIC: TEARING OUT — MINE — MACP

5t + claws. 5

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 mHR

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 HRS RUN 8 | 2 HRS RUN | BOILER pH | STACK TEMP

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

CIRCULATION PRESSURE kPa: PUMP NO. 1 LINER SIZE / SPM; PUMP NO. 2 LINER SIZE / SPM

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: JASON E. UNRAU

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
800	1600	8.00	22	WAITING ON TRUCKS TO MOVE TO NORMAN WELLS, CLEANING RIG

NOTES:

SPECIAL EVENT / TIME / DEPTH — SAFETY TOPIC: CLEANING RIG — MINE — MACP

2

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 mHR

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 HRS RUN 8 | 2 HRS RUN | BOILER pH | STACK TEMP

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

CIRCULATION PRESSURE kPa: PUMP NO. 1 LINER SIZE / SPM; PUMP NO. 2 LINER SIZE / SPM

REDUCED PUMP SPEED: @ / @

DEVIATION SURVEYS: DEPTH (m) | DEVIATION | DIRECTION

DRILLER SIGNATURE: J.D. HINKLEY

TIME LOG

FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1600	2400	8.00	22	WAITING ON TRUCKS TO MOVE TO ONORMAN WELLS

NOTES:

SPECIAL EVENT / TIME / DEPTH — SAFETY TOPIC: CLEANING RIG — MINE — MACP

D