

LICENCE NO
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR
NORTHROCK RESOURCES LTD
SURFACE LOCATION
L-71-64-30-125-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy

CONTRACTOR
AKITA DRILLING LTD
UNIQUE ID
11 / 0
SIGNATURE OF CONTRACTOR'S RIG MANAGER
Alvin Vogt

DAILY CHECKS
(1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) VCD Sign Posted & Rechecked
(4) Well Licence & Block Diagram Posted
(5) Flare Lines Stashed
(6) BOP Drills Performed
(7) Visually Inspect BOP- Flare Lines & Degasser Lines
(1) Rig Gas Health & Safety Meeting (weekend/monthly)
(2) CAADC Rig Detail Inspection Checklist (week/monthly)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kils Checked

YEAR 2005 MONTH 3 DAY 28
RIG NO. 40
FUEL @ 04:00 HRS
BOILER
TEMPERATURE
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION

LAST CASING 1.181.10 CM LINER
O.D. (mm)
MIN ID (mm)
MASS (kg/m3)
GRADE
NO. OF JOINTS
TOTAL LENGTH
RIG TO CSG HEAD
SET AT (m)
MASS
GRADE
MINIMUM ID
1 IN O.D.
TYPE THREAD
NO. OF JOINTS
PUMP TYPE
PUMP MANUFACTURER
STROKE LENGTH

RIG DATE 2005/01/23 TIME 13:15
RIG RELEASE 2005/03/26 TIME 19:00
WELL TYPE
OPERATOR'S AFE 240346
KELLY SHAG
CONTRACTOR'S JOB NAME
TOUR SHEET SERIAL NUM AKTA40_20050328_1B
VENDOR SOFTWARE VERSION EDR 3-1_1_HF2 ETS 2.2

CAADC
PASON

CODE NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER (S)		RENTALS / SERVICES		MORNING	DAY
RIG	GROUP & TEARDOWN	DRILL ACTUAL	REAMEING	CORING	COND MUD & CMC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	HOPE UP BOP	TEST BOP	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR WORK	SAFETY MEETING										NO	TYPE	TYPE	
																															SCREENS CHANGED	NEW USED		
																															TOP	TOP		
																															MIDDLE	MIDDLE		
BOTTOM	BOTTOM																																	
MORN																																		
DAY	775																					0.25						8.00						
TOTAL	775																					0.25						8.00						

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

LENGTH

BIT RECORD
BIT NO.
SIZE
WOC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN
OUTTING STRUCTURE
TI TO MDC LOC BRO GAGE ODC REASON PULLED TOTAL RUN m/Hrs
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MORNING TOUR
MUD TYPE: WATER BASED OIL BASED
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH
MUD MATERIALS ADDED
PRODUCT AMOUNT UNIT
CENTRIFUGE
HOURS RUN INTAKE DENSITY (kg/m3) OVER FLOW DENSITY UNDER FLOW DENSITY
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
BOILERS
HRS RUN 0 HRS RUN 0
BOILER pH BOILER pH
STACK TEMP STACK TEMP
CIRCULATION PRESSURE kPa
PUMP NO. 1 PUMP NO. 2
LINER SIZE SPM LINER SIZE SPM
DRILLER SIGNATURE
SPECIAL EVENT
TIME / DEPTH

METRES DRILLED
FROM TO D-R-C RPM WOB
FROM TO ELAPSED TIME CODE
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

TIME LOG
NOTES

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

LENGTH

BIT RECORD
BIT NO.
SIZE
WOC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN
OUTTING STRUCTURE
TI TO MDC LOC BRO GAGE ODC REASON PULLED TOTAL RUN m/Hrs
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

DAY TOUR
MUD TYPE: WATER BASED OIL BASED
TIME
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH
MUD MATERIALS ADDED
PRODUCT AMOUNT UNIT
CENTRIFUGE
HOURS RUN INTAKE DENSITY (kg/m3) OVER FLOW DENSITY UNDER FLOW DENSITY
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
BOILERS
HRS RUN 0 HRS RUN 0
BOILER pH BOILER pH
STACK TEMP STACK TEMP
CIRCULATION PRESSURE kPa
PUMP NO. 1 PUMP NO. 2
LINER SIZE SPM LINER SIZE SPM
DRILLER SIGNATURE
SPECIAL EVENT
TIME / DEPTH

METRES DRILLED
FROM TO D-R-C RPM WOB
FROM TO ELAPSED TIME CODE
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

TIME LOG
NOTES

DRILLING CREW PAYROLL DATA
WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 YEAR 2005 MONTH 3 DAY 28
OPERATOR NORTHROCK RESOURCES LTD. CONTRACTOR AKITA DRILLING LTD.
RIG MANAGER Alvin Vogt RIG NO. 40
PROVINCE NWT CAMP X YES NO RIG SAFETY DAYS 1
MORNING TOUR FROM 0 TO 600 INJURED
CREW SOC INS. NO NAME HRS YES NO
DRILLER Mike Wiebe 8 MDW
DERRICK HAND Ron Hall 8 RH
DERRICK HAND Jerry Hayman 8 JH
FLOOR HAND Sali Mohammed 8 SM
Roust about Joel Doctor 8 JD
Foreman roust about Steve Pringle 8 ST
RATE SCHEDULE REGULAR REPAIR INVERT
CREW SAFETY DAYS
1
DAY TOUR FROM 600 TO 1400 INJURED
CREW SOC INS. NO NAME HRS YES NO
DRILLER Mike Wiebe 8 MDW
DERRICK HAND Ron Hall 8 RH
DERRICK HAND Jerry Hayman 8 JH
FLOOR HAND Sali Mohammed 8 SM
Roust about Joel Doctor 8 JD
Foreman roust about Steve Pringle 8 ST
RATE SCHEDULE REGULAR REPAIR INVERT
CREW SAFETY DAYS
1

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

DAILY CHECKS

YEAR 2005 MONTH 3 DAY 27

RIG NO. 40

FUEL @ 00:00 HRS

BOILER

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

WIND SPEED

ROAD CONDITION

LAST CASING TURNING ON LINER

OD (mm) 339.7

MIN ID (mm) 313.92

MASS (kg/m3) 90.78

MAKE Tamsa

GRADE K55

NO. OF JOINTS 46

TOTAL LENGTH 647.49

KB TO CSG HEAD 6.17

GET AT (m) 645

244.5

218.54

69.9

Tenaris

K55

182

2536.2

6.17

2535

DC/DP SIZE

MASS

GRADE

MINIMUM ID

T JNT OD

TYPE THREADED

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

DC 171

DP 127

DP 127

165

168

38.1

71

171

5" H90

8

PZ 9

GARDNER DENVER

229

102

168

4 1/2 IF

251

PZ 9

GARDNER DENVER

228

38.1

X 95

102

168

4 1/2 IF

139

CODE NO.																										TOTALS		SHALE SHAHER (S)				RENTALS / SERVICES		MORNING		DAY	
WELL DEPTH	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		NO	TYPE	TYPE							
		RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILLO LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	HP/PLE UP BOP	TEST BOP	DRILL/STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MEETING						2	DERICK	DERICK	MJ-SLC/3585 MJ-ACUMM/718020						
																												SCREENS CHANGED	NO	NEW USED	ACCUMULATOR	34					
	MORN	11.75																					0.25					12.00	175	TOP	TOP	KB UNHEAD FLANGE	5.70				
	DAY	8.0																										8.00	110	MIDDLE	MIDDLE	CREW VEHICLE					
TOTAL	19.75																					0.25					20.00	110	BOTTOM	BOTTOM	FORKLIFT						

NO. DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD MORNING TOUR MUD RECORD METRES DRILLED TIME LOG

BIT NO. SIZE VDC 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

DRILL PIPE STANDS DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE WATER BASED OIL BASED

FROM TO D-R-C RPM WOB

FROM TO ELAPSED TIME CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0 800 8.00 1 STRIP DERRICK, RIG OUT FLOOR, TEAR DOWN PREFABS & WINDBOARDS

800 815 0.25 21 DISCONNECT COMMUNICATION SYSTEM STORE HEATERS IN C-CANS

815 1200 3.75 1 WINTERIZE WASH GUNS WASHING MACHINE LUBRICATORS BLOW OUT WATER & STEAM

SAFETY MEETING

LOAD OUT RIG

2 hr FOR PRETOUR SAFETY MEETING

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

NOTES

DRILLER SIGNATURE

William Cairns

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MSL

WACP

NO. DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD DAY TOUR MUD RECORD METRES DRILLED TIME LOG

BIT NO. SIZE VDC 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

DRILL PIPE STANDS DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE WATER BASED OIL BASED

FROM TO D-R-C RPM WOB

FROM TO ELAPSED TIME CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200 2000 8.00 1 LOAD OUT

PRE TOUR SAFETY MEETING WITH TRUCKERS AND RIG CREW

JSA S PICKING UP MATTING, WHICH ON LOADS WORK WIBED TRUCKS

DRILLER SIGNATURE

Mike Wiebe

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MSL

WACP



PASON



SPUD DATE 2005/01/23 TIME 13 15

RIG RELEASE 2005/03/26 TIME 16:00

WELL TYPE VERT RE-ENTRY NO

OPERATOR'S AFE 240346

KELLY BSHD 6.17 DR FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM AKT440_20050327_1B

VENDOR SOFTWARE VERSION EDR_3-1_1_HF2 ETS 2.2

DRILLING CREW PAYROLL DATA

WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 YEAR 2005 MONTH 3 DAY 27

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

RIG MANAGER Vogt/Bernier RIG NO 40

PROVINCE N.W.T. CAMP X YES NO RIG SAFETY DAYS 259

MORNING TOUR FROM 0 TO 1200 INJURED

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		William Cairns	10		WC
DERRICK HAND		Terry Sanderson	10		TS
DERRICK HAND		Chad Snyder	10		CS
MOTOR HAND		Ken Lauck	10		KL
FLOOR HAND		Tyler Potts	10		TP
FLOOR HAND		William Andrew	10		WA
WellSite Co-ordinator		NICO VANDERGEEST	12		NV

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 86

DRIVERS Andre Habel Sali Mohammed

DAY TOUR FROM 1200 TO 2400 INJURED

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MW
DERRICK HAND		Ron Hall	12		RH
DERRICK HAND		Jerry Hayman	12		JH
MOTOR HAND		Sali Mohammed	12		SM
FLOOR HAND		James McPherson	12		JM
FLOOR HAND		Joel Doctor	12		JD
FLOOR HAND		Kenny Sim	12		KS
Foreman / roust about		Steve Pringle	12		ST

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 73

DRIVERS Mike Wiebe Steve Pringle

LICENCE NO. WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

DAILY CHECKS

YEAR 2005 MONTH 3 DAY 25

LAST CASING TUBING OR UNER

Q.D. (mm) 339.7 313.92 90.78

MIN ID. (mm) 244.5 218.54 69.9

MASS (kg/m) 244.5 218.54 69.9

MAKE Tanaka

GRADE K55

NO. OF JOINTS 46

TOTAL LENGTH 547.49

KB TO CSD HEAD 6.17

SET AT (m) 645

TEMPERATURE 8

CURRENT CONDITIONS 0.01

WIND DIRECTION CALM

ROAD CONDITION ICE

DC TOP SIZE 171

DC 171

DC 127

DC 127

MASS 165

GRADE DC 71

MINIMUM ID 171

7 JNT. O.D. 5

TYPE H90

NO. OF JOINTS 8

PUMP TYPE PZ 9

PUMP MANUFACTURER GARDNER DENVER

STROKES LENGTH 229

STROKES LENGTH 229

STROKES LENGTH 229

SPUD DATE 2005/01/23 TIME 13:15

RIG RELEASE TIME 13:15

WELL TYPE VERT

RE-DITY NO

OPERATOR'S AFE 240346

KELLY BSHG 6.17

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM AKTA40_20050326_18

VENDOR SOFTWARE VERSION EDR_3-1_1_HF2 ETS 2.2



CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
GROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & ORC	TRIPS	RIG SERVICE	REPAIR RIG	OUT OF 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	DR. WORK	SAFETY MEETING	INSTALL WELLHEAD						
MORN	2.0																			0.25	1.5	8.25					12.00
DAY	10.75																			0.25	1.0						12.00
TOTAL	12.75																			0.50	1.50	9.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

000 200 2.00 1 CONT TO NIPPLE DOWN & TEAR OUT RIG

200 330 1.50 22 RIG TO & INSTALL WELL HEAD-BLOW OUT 20m OF WATER & DISPLACE W/1m3 DIESEL

330 345 0.25 21 SAFETY MEETING PRIOR TO RIGGING OUT TOP DRIVE

345 1200 8.25 23 TEAR OUT TOP DRIVE

NOTES BLOW DOWN BOILER 3X EACH

REVIEW JSA ON RIGGING OUT TOP DRIVE

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MEP

MAP

RIG OUT T D

DRILLING CREW PAYROLL DATA

WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR 2005 MONTH 3 DAY 26

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

RIG MANAGER Vogt/Bernier

RIG NO. 40

PROVIDENCE N.W.T

CAMP X YES NO

RIG SAFETY DAYS 258

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		William Cairns	12		WC
DERRICK HAND		Terry Sanderson	12		TS
DERRICK HAND		Chad Snyder	12		CS
MOTOR HAND		Ken Lauck	12		KL
FLOOR HAND		Tyler Potts	12		TP
FLOOR HAND		William Andrew	12		WA
Wellbore Coordinator		NICO VANDERGEEST	12		NV

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200 1300 1.00 23 TEAR OUT TOP DRIVE

1300 1315 0.25 21 SAFETY MEETING PRIOR TO LOWERING SUB & DERRICK

1315 2400 10.75 1 READY SUB&RIG TO LOWER FLOOR DO SAME & LOWER DERRICK

2400 SPOOL DRILL LINE ON TO REAL & CONT TO DRESS DOWN DERRICK & RIG OUT

RIG RELEASED 05-03-26 18:00 HRS AS PER KEVIN AMY

NOTES

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MEP

MAP

LOWER SUB & DER

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MDW
DERRICK HAND		Ron Hall	12		RH
DERRICK HAND		Jerry Hayman	12		JH
MOTOR HAND		Sali Mohammed	12		SM
FLOOR HAND		James McPherson	12		JM
FLOOR HAND		Joel Doctor	12		JD
FLOOR HAND		Kenny Sim	12		KS
Foreman roust about		Steve Pringle			ST

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

DAILY CHECKS

YEAR 2005 MONTH 3 DAY 25

LAST CASING LUNG OR LINER

NO 40

FUEL @ 00:00 HRS

NO 8752

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

SHALE SHAKER (S)

RENTALS / SERVICES

MORNING DAY

DRILLING CREW PAYROLL DATA

WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR 2005 MONTH 3 DAY 25

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

RIG MANAGER Vogt/Bernier RIG NO. 40

PROVIDER NWT CAMP YES NO RIG SAFETY DAYS 257

MORNING TOUR FROM 0 TO 1200 INJURIES

CREW SOC INS. NO NAME HRS YES NO

DRILLER William Cairns 12 WC

DERRICK HAND Terry Sanderson 12 TS

DERRICK HAND Chad Snyder 12 CS

MOTOR HAND Ken Lauck 12 KL

FLOOR HAND Tyler Potts 12 TP

FLOOR HAND William Andrew 12 WA

Wellsite Coordinator NICO VANDERGEEST 12 NV

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 64

DRIVERS Andre Habel

Sali Mohammed

DAY TOUR FROM 1200 TO 2400 INJURIES

CREW SOC INS. NO NAME HRS YES NO

DRILLER Mike Wiebe 12 MW

DERRICK HAND Ron Hall 12 RH

DERRICK HAND Jerry Hayman 12 JH

MOTOR HAND Sali Mohammed 12

FLOOR HAND James McPherson 12

FLOOR HAND Joel Doctor 12 JD

Foreman rust about Steve Pringle 12 ST

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 71

DRIVERS Mike Wiebe

Steve Pringle

[illegible]

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

NORTHROCK RESOURCES LTD

SURFACE LOCATION

L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE

Kevin Amy

CONTRACTOR

AKITA DRILLING LTD

UNIQUE ID

1/10

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Alvin Vogt

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Drilled Inspection Weekly (Using Check List)

(3) H2S Signs Posted if Required

(4) Well Leases & Block Diagram Posted

(5) Flare Lines Stalled

(6) BOP Data Performed

(7) Visually Inspect BOP's Flare Lines & Degreaser Lines

(1) Rig Site Health & Safety Meeting (weekly/monthly)

(2) CADC Rig Safety Inspection Checklist (weekly/monthly)

(3) Metal Inspection before Raising or Lowering

(4) Crown Block Check

(5) Motor Vibe Check

OPR R M

K.A. AV

RIG NO.

40

LAST CASING TUBING OR LINER

339 7

313.92

90 78

Tenaris

GRADE

K55

46

647 49

6.17

645

MASS (kg/m)

244 5

216.54

69.9

Tenaris

GRADE

K55

182

2536.2

6.17

2535

MASS (kg/m)

4085

POILER

TEMPERATURE

14

DC /IP SIZE

MASS

GRADE

MINIMUM I.D.

T INT O.D.

TYPE THREAD

NO. OF JOINTS

RAMP TYPE

RAMP MANUFACTURER

STROKE LENGTH

DC /IP

171

165

DC

71

171

5 H90

8

PZ 9

GARDNER DENVER

229

DP

127

38.1

E 75

102

168

4 1/2 IF

261

PZ 9

GARDNER DENVER

229

DP

127

38.1

X 95

102

168

4 1/2 IF

139

DC /IP

171

165

DC

71

171

5 H90

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GARDNER DENVER

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GARDNER DENVER

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DC /IP

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DC

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5 H90

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PZ 9

GARDNER DENVER

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X 95

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4 1/2 IF

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DC /IP

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165

DC

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171

5 H90

8

PZ 9

GARDNER DENVER

229

DP

127

38.1

X 95

102

168

4 1/2 IF

139

DC /IP

171

165

DC

71

171

5 H90

8

PZ 9

GARDNER DENVER

229

DP

127

38.1

X 95

102

168

4 1/2 IF

139

DC /IP

171

165

DC

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171

5 H90

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PZ 9

GARDNER DENVER

229

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168

4 1/2 IF

139

DC /IP

171

165

DC

71

171

5 H90

8

[illegible]

LICENCE NO
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
OPERATOR
NORTHROCK RESOURCES LTD
CONTRACTOR
AKITA DRILLING LTD
SURFACE LOCATION
L-71-64-30-125-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy
UNIQUE ID
11/10
SIGNATURE OF CONTRACTOR'S RIG MANAGER
Alvin Vogt

DAILY CHECKS
(1) Daily Walk Around Inspection
(2) Daily Inspection - Visually (Using Check List)
(3) H2S Signs Posted if Required
(4) Well Licence & Stock Diagram Posted
(5) Flow Lines Staked
(6) BOP Daily Performance
(7) Visually Inspect BOP's - Flow Lines & Degasser Lines
(8) Rig Site Health & Safety Meeting (one/week/month)
(9) CADC Rig Safety Inspection Checklist (one/night/month)
(10) Last Inspection before Raising or Lowering
(11) Crown Rower Checked
(12) Motor Vibs Checked

YEAR 2005 MONTH 3 DAY 19
LAST CASING TUBING OR LUGER
339 7 313.92 90 78 Taitab
244 5 216 54 69 9 Taitab
K55 48 647 49 6 17 645
K55 182 2536.2 6 17 2535
NO. OF JOINTS TOTAL LENGTH KB TO CSD HEAD SET AT (m)
48 647 49 6 17 645
182 2536.2 6 17 2535
TEMPERATURE 17
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION
ICE
O.D. (mm) 339 7
W.D. (mm) 244 5
MASS (kg/m) 313.92
MASS (kg/m) 216 54
GRADE 90 78
GRADE 69 9
T.Y. O.D. 5 H90
T.Y. O.D. 4 1/2 IF
NO. OF JOINTS 24
PUMP TYPE PZ 9
PUMP MANUFACTURER GARDNER DENVER
STROKE LENGTH 229
STROKE LENGTH 229
O.D. 127
O.D. 127
MASS 165
MASS 165
GRADE 71
GRADE 71
T.Y. O.D. 5 H90
T.Y. O.D. 4 1/2 IF
NO. OF JOINTS 24
PUMP TYPE PZ 9
PUMP MANUFACTURER GARDNER DENVER
STROKE LENGTH 229
STROKE LENGTH 229
O.D. 127
O.D. 127
MASS 165
MASS 165
GRADE 71
GRADE 71
T.Y. O.D. 5 H90
T.Y. O.D. 4 1/2 IF
NO. OF JOINTS 24
PUMP TYPE PZ 9
PUMP MANUFACTURER GARDNER DENVER
STROKE LENGTH 229
STROKE LENGTH 229

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
GROUP & TEARDOWN	DRILL ACTUAL	REMAINING	CORING	CORING MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSD & CEMENT	WAIT ON CEMENT	WIPPLE UP S.O.P	TEST B.O.P	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MEETING	STAND P	change S					
MORN				3.25	4.5	0.25									3.25							0.25		0.5			12.00
DAY		0.25		2.25	7.25			1.0							1.25												12.00
TOTAL		0.25		5.50	11.75	0.25		1.00							4.50							0.25		0.50			24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR) LENGTH: BIT RECORD MORNING TOUR MUD RECORD METRES DRILLED TIME LOG
1. D.S.T TOOL 187 18.00 SIZE 400
2. BIT SUB 170 1.02 WOC CODE 1035
3. B.75 D.C 171 48.82 MANUFACTURER FUNNEL VISCOSITY 38
4. X.O 170 50 TYPE FLUID LOSS (cm3) 9.0
5. H.W.D.P 170 83.02 SERIAL NO. pH 10
6. PUP JOINT 127 3.11 P.V.T
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN
CUTTING STRUCTURE
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)
KELLY DOWN
TOTAL 150.47
WT OF D.C.
WT OF STRING
NO. DRILLING ASSEMBLY (AT END OF TOUR) LENGTH: BIT RECORD DAY TOUR MUD RECORD METRES DRILLED TIME LOG
1. BIT SUB 171 1.02 SIZE 215.9
2. B.75 D.C 171 48.24 WOC CODE 1030
3. X.O 171 50 MANUFACTURER SMITH FUNNEL VISCOSITY 34
4. H.W.D.P 127 83.26 TYPE EP5680 FLUID LOSS (cm3) 34
SERIAL NO. 603274 pH 10.5
JETS OPEN P.V.T 61.6
MUD MATERIALS ADDED
PRODUCT AMOUNT UNIT
BARITE 34 SK
SOLIDS CONTROL
CENTRIFUGE
CIRCULATION PRESSURE kPa
PUMP NO. 1 PUMP NO. 2
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
BOILERS
HRS RUN 12 HRS RUN 12
BLOWER PH 10.5 BLOWER PH 10.5
STACK TEMP 180 STACK TEMP 185
DRILLER SIGNATURE Chad Snyder
SPECIAL EVENT P.O.O.H.D.S.T
TIME / DEPTH

CAADC
PASON
RIG DATE: 2005/01/23 TIME: 13 15
RIG RELEASE: TIME: 13 15
WELL TYPE: VERT REGION: NO
OPERATOR'S A/E: 240346
KELLY BSH: 6.17 OF FUEL
CONTRACTOR'S JOB NO:
TOUR SHEET SERIAL NUM AKTA40_20050319_1B
VEHICLE SOFTWARE VERSION EDR 3-1 1_HF2 ETS 2.2

DRILLING CREW PAYROLL DATA
WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30 YEAR 2005 MONTH 3 DAY 19
OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD
RIG MANAGER Alvin Vogt RIG NO. 40
PROVIDE CAMP X YES NO RIG SAFETY DAYS 65
N.W.T.

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Chad Snyder	12		C.S.
DERRICK HAND		Andre Habel	12		A.H.
DERRICK HAND		Sean Breadner	12		S.B.
MOTOR HAND		Dwayne Wills	4		D.W.
FLOOR HAND		Sali Mohammed	12		S.M.
FLOOR HAND		Tyler Salters	12		T.S.

RATE SCHEDULE X REGULAR REPAIR INVERT
CREW SAFETY DAYS 58
DRIVERS
Sali Mohammed

DAY TOUR	FROM 1200	TO 2400	SALURES
CREW			
DRILLER		William Cairns	12 WC
DERRICK HAND		Terry Sanderson	12 TS
DERRICK HAND		Jerry Hayman	12 J.H.
MOTOR HAND		Ken Lauck	12 K.L.
FLOOR HAND		Tyler Potts	12 T.P.
FLOOR HAND		William Andrew	12 W.A.
Roost about		Joel Doctor	12 J.D.
Foreman roost about		Steve Pringle	12 S.T.
Roost about		Gareth Harley	12 G.H.

RATE SCHEDULE X REGULAR REPAIR INVERT
CREW SAFETY DAYS 65
DRIVERS
William Cairns
Terry Sanderson

NO. DRILLING ASSEMBLY (AT END OF TOUR) LENGTH: BIT RECORD DAY TOUR MUD RECORD METRES DRILLED TIME LOG
1. BIT SUB 171 1.02 SIZE 215.9
2. B.75 D.C 171 48.24 WOC CODE 1030
3. X.O 171 50 MANUFACTURER SMITH FUNNEL VISCOSITY 34
4. H.W.D.P 127 83.26 TYPE EP5680 FLUID LOSS (cm3) 34
SERIAL NO. 603274 pH 10.5
JETS OPEN P.V.T 61.6
MUD MATERIALS ADDED
PRODUCT AMOUNT UNIT
BARITE 34 SK
SOLIDS CONTROL
CENTRIFUGE
CIRCULATION PRESSURE kPa
PUMP NO. 1 PUMP NO. 2
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
BOILERS
HRS RUN 12 HRS RUN 12
BLOWER PH 10.5 BLOWER PH 10.5
STACK TEMP 180 STACK TEMP 185
DRILLER SIGNATURE William Cairns
SPECIAL EVENT TRIPPING
TIME / DEPTH

LICENCE NO
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
OPERATOR
NORTHROCK RESOURCES LTD
CONTRACTOR
AKITA DRILLING LTD
SURFACE LOCATION
L-71-64-30-125-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy
SIGNATURE OF CONTRACTOR'S RIG MANAGER
Alvin Vogt

DAILY CHECKS
(1) Daily Wellbore Inspection
(2) Defect Inspection - Weekly (Using Check List)
(3) H2S Signs Passed / Recurred
(4) Well Licence & Block Diagram Posted
(5) Flow Lines Scaled
(6) BOP Data Performed
(7) Visually Inspect BOPs - Flow Lines & Degasser Lines
(8) Rig Site Health & Safety Meeting (one/week/month)
(9) CAGDC Rig Safety Inspection Checklist (one/week/month)
(10) Mast Inspection before Raising or Lowering
(11) Crown Saver Checked
(12) Motor H2S Checked

YEAR 2005 MONTH 3 DAY 18
LAST CASING TUBING OR LIFTER
FUEL @ 08:00 HRS
BOILER 200
TEMPERATURE 14
CURRENT CONDITIONS
WIND DIRECTION NORTH
ROAD CONDITION ICE

Q.D. (mm) 339.7
MIN ID (mm) 313.92
MASS (kg/m) 90.78
GRADE K55
NO. OF JOINTS 46
TOTAL LENGTH 647.49
KB TO CSG HEAD 6.17
SET AT (m) 645
MASS (kg/m) 244.5
MIN ID (mm) 216.54
MASS (kg/m) 69.9
GRADE K55
NO. OF JOINTS 182
TOTAL LENGTH 2536.2
KB TO CSG HEAD 6.17
SET AT (m) 2535
TEMPERATURE 14
CURRENT CONDITIONS
WIND DIRECTION NORTH
ROAD CONDITION ICE

SPUD DATE 2005/01/23
TIME 13 15
RIG RELEASE
WELL TYPE VERT
RE-ENTRY NO
OPERATOR'S AFE 240346
KELLY BEAD 6.17
OP FUEL
CONTRACTOR'S JOB NUM
TOUR SHEET SERIAL NUM AKT40_20050318_18
VENDOR SOFTWARE VERSION EDR_3-11_HF2 ETS 2.2



PASON

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
	GROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CIG & CEMENT	WAIT ON CEMENT	HOPE UP B.O.P	TEST B.O.P	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR WORK	SAFETY MEETING	TOP A/E			change B
MORN						5.25	0.25									5.75					0.25				0.5
DAY						0.75					1.5					9.25					0.25	0.25			
TOTAL						6.00	0.25				1.50					15.00					0.50	0.25			0.50

SHALE SHAVER (S)
RENTALS / SERVICES
MORNING
DAY
NO TYPE DEFROCK TYPE DEFROCK
SCREENS CHANGED NOW USED
ACCUMULATOR 34
TOP TOP KB UNIHED FLANGE 5.70
MIDDLE MIDDLE CREW VEHICLE
BOTTOM BOTTOM FORKLIFT

DRILLING CREW PAYROLL DATA
WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30
YEAR 2005 MONTH 3 DAY 18
OPERATOR NORTHROCK RESOURCES LTD.
CONTRACTOR AKITA DRILLING LTD.
RIG MANAGER Alvin Vogt
RIG NO 40
PROVIDE CAMP ☒ YES ☐ NO
RIG SAFETY DAYS 84
N.W.T

NO DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD BIT NO. MUD TYPE POLYMER WATER BASED ☒ OIL BASED ☐ FROM TO D-R-C RPM WOB
1 D.S.T TOOL 197 18.00 SIZE TIME
2 BIT SUB 170 1.02 WDC CODE DENSITY (kg/m3)
3 6.75 D.C 171 48.82 MANUFACTURER FUNNEL VISCOSITY
4 X.O 170 50 TYPE FLUID LOSS (cm3)
5 H.W.D.P 170 83.02 SERIAL NO. pH
6 PUP JOINT 127 3.11
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN
CUTTING STRUCTURE
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)
DRILL PIPE STANDS
DRILL PIPE SINGLES
KELLY DOWN
TOTAL 150.47
WT OF D.C.
WT OF STRING

TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0 515 5.25 8 TRIPS R/L H W.D.S.T RILL STRING W/20 EVERY 3 STANDS
515 545 0.50 25 CHANGE BAILES
545 600 0.25 18 DRILL STEM TEST RIG UP FLOOR F/D.S.T
600 615 0.25 21 SAFETY MEETING W/RIG CREW/BAKER HUGHES
615 1130 5.25 18 DRILL STEM TEST#4 OP 15MIN-CL 60MIN-OP 60MIN-CL 120MIN @ 2832m-2855m
1130 1145 0.25 18 DRILL STEM TEST UNSEAT TOOLS
1145 1200 0.25 7 RIG SERVICE FUNCTION LOWER PIPE RAMS 4 SEC CO
1200
MONITOR WELL @ TRIP TANK
NOTES INSPECT DEAD-LINE ANCHOR/BRACKS LINKAGE
ALL B.O.P MANIFOLD VALVES CHOKED LINES
FUNCTION CROWN SAVER PRIOR TO R/LH
REVIEW JSA 9 ON TRIPPING WORKING W/TOP DRIVE
BLEW BOILERS #1,2,2 X EACH
DRILLER SIGNATURE Chad Snyder
SPECIAL EVENT R/L H W.D.S.T #4
TIME / DEPTH
WORK W/TOP DRIVE 125 16849

MORNING TOUR FROM 0 TO 1200 INJURED
CREW SOC INS. NO NAME HRS YES NO
DRILLER Chad Snyder 12 CS
DERRICK HAND Andre Habel 12 AH
DERRICK HAND Sean Breadner 12 SB
MOTOR HAND Ken Smith 12 KS
FLOOR HAND Sali Mohammed 12 SM
FLOOR HAND Tyler Salters 12 TMS
RATE SCHEDULE ☒ X REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS 57
DRIVERS
Sali Mohammed

NO DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD BIT NO. MUD TYPE polymer WATER BASED ☒ OIL BASED ☐ FROM TO D-R-C RPM WOB
1 D.S.T TOOL 197 18.00 SIZE TIME
2 BIT SUB 170 1.02 WDC CODE DENSITY (kg/m3)
3 6.75 D.C 171 48.82 MANUFACTURER FUNNEL VISCOSITY
4 X.O 170 50 TYPE FLUID LOSS (cm3)
5 H.W.D.P 170 83.02 SERIAL NO. pH
6 PUP JOINT 127 3.11
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN
CUTTING STRUCTURE
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)
DRILL PIPE STANDS
DRILL PIPE SINGLES
KELLY DOWN
TOTAL 150.47
WT OF D.C.
WT OF STRING

TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1200 1300 1.00 16 DRILL STEM TEST CONT TO UNSEAT TOOLS
1300 1345 0.75 6 TRIPS POOH TO 2833m
1345 1515 1.50 11 RIG TO WIRE LINE LOGS TO CHECK DEPTH & DO SAME
1515 1530 0.25 21 SAFETY MEETING PRIOR TO RUNNING DST #5 W.C
1530 2115 5.75 16 HEAD UP & DRILL STEM TEST @ 2833 TO 2855m
2115 OP 15min-CL 60 min-OP 60/ CO-120min
2115 2130 0.25 22 B.O.P DRILL W/CREW HAD DISCUSSION ON WELL SHUT IN PRIOR TO P.O.H W/D S.T TOOLS
2130
2130 2400 2.50 16 RETEST open 60min/close 120min
2400
MONITOR WELL @ TRIP TANK
NOTES REVIEW JSA ON D.S.T
BLOW DOWN BOILERS 1&2-3 TIMES EACH
FUNCTION CROWN SAVER
DRILLER SIGNATURE Chad Snyder
SPECIAL EVENT D.S.T #4&5
TIME / DEPTH
LOGGING 150 16849

DAY TOUR FROM 1200 TO 2400 INJURED
CREW SOC INS. NO NAME HRS YES NO
DRILLER William Cairns 12 WC
DERRICK HAND Terry Sanderson 12 TS
DERRICK HAND Jerry Hayman 12 JH
MOTOR HAND Ken Lauck 12 KL
FLOOR HAND Tyler Potts 12 TP
FLOOR HAND William Andrew 12 WA
Roust about Joel Doctor 12 JD
Foreman roust about Steve Pringle 12 ST
Roust about Garrett Harley 12 GH
RATE SCHEDULE ☒ X REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS 64
DRIVERS
William Cairns
Terry Sanderson

PASON

DRILLING CREW PAYROLL DATA				
WELL NAME & NO		YEAR	MONTH	DAY
NORTHROCK et al Sah Cho L 71-64-30-125-30		2005	3	16
OPERATOR		CONTRACTOR		
NORTHROCK RESOURCES LTD.		AKITA DRILLING LTD.		
JOB MANAGER		JOB NO.		
Alvin Vogt		40		
PROVINCE		CAMP	JOB SAFETY DAYS	
N.W.T		☒ YES ☐ NO	62	

[illegible][illegible]

LICENCE NO: NORTHROCK et al Sah Cho L-71-64-30-125-30
 OPERATOR: NORTHROCK RESOURCES LTD
 SURFACE LOCATION: L-71-64-30-125-30
 SIGNATURE OF OPERATOR'S REPRESENTATIVE: Kevin Amy
 CONTRACTOR: AKITA DRILLING LTD
 UNIQUE ID: 1/10
 SIGNATURE OF CONTRACTOR'S RIG MANAGER: Allyn Vogt
 DAILY CHECKS:
 (1) Daily Walk Around Inspection
 (2) Detailed Inspection: Weekly (Using Check List)
 (3) HOS Signs Posted & Required
 (4) Wind Licence & Block Diagram Posted
 (5) Flare Lines Staked
 (6) BOP Drills Performed
 (7) Visually Inspect BOP's Flare Lines & Degasser Lines
 (1) Rig Site Health & Safety Meeting (encl. 10/10/05)
 (2) CADC Rig Safety Inspection Checklist (encl. 10/10/05)
 (3) Mast Inspection before Raising or Lowering
 (4) Crown Block Checked
 (5) Motor Kits Checked
 YEAR: 2005 MONTH: 3 DAY: 15
 FUEL @ 04:00 HRS: 40
 LAST OIL CHG: 2000
 OIL: 338.7 313.92 90.78 244.5 216.54 69.9
 MAKE: Tattsa Tenaris
 GRADE: K55 K55
 NO. OF JOINTS: 46 182
 TOTAL LENGTH: 647.49 2536.2
 NO. TO CRO HEAD: 6.17 6.17
 SET AT IN: 645 2535
 TEMPERATURE: 171 165 71 171 5 H90 24
 CURRENT CONDITIONS: DC 171 165 DC 71 171 5 H90 24
 WIND DIRECTION: DP 127 38.1 E 75 102 168 4 1/2 IF 261 PZ 9
 ROAD CONDITION: DP 127 38.1 X 95 102 168 4 1/2 IF 139 PZ 9
 SHALE SHAKER (S): SLC-10313 ACUMM-67524
 RENTALS / SERVICES: ACCUMULATOR 34, KB UNHEAD FLANGE 5.70, CREW VEHICLE, FORKLIFT



PASON

CODE NO.																										TOTALS		SHALE SHAKER (S)		RENTALS / SERVICES		MORNING		DAY																					
NO	TYPE	DEFECT	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT																											
																													NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT												
																																												NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT	NO	TYPE	DEFECT
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	27	28	29																											

[illegible]

LICENCE NO. WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alivn Vogt

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (Using Check List)
(3) HGS Signs Posted if Required
(4) Well Location & Stock Diagram Posted
(5) Plans Lines Staked
(6) HGS Data Performance
(7) Visually Inspect BOPs - Flow Lines & Discharge Lines

(1) Rig Site Health & Safety Meeting (one/mo/week)
(2) CAODC Rig Safety Inspection Checklist (one/mo/week)
(3) Mast Inspection before Raising or Lowering
(4) Crown Sealer Checked
(5) Mast Jibs Checked

YEAR 2005 MONTH 3 DAY 13

RIG NO. 40

FUEL @ 08:00 HRS

BOILER 1500

TEMPERATURE 2

CURRENT CONDITIONS

WIND DIRECTION

WIND SPEED

ROAD CONDITION

ICE

Q.D. (mm) 339.7 244.5

M.V. (mm) 313.92 216.54

M.A.S.S. (kg/m3) 90.78 69.9

MAKE Tamsa Tenaris

GRADE K55 K55

NQ. of JOINTS 48 182

TOTAL LENGTH 847.49 2536.2

KB TO CSD HEAD 6.17 6.17

SET AT (m) 645 2535

LAST CASING TURNING OR LINER

Q.D. (mm) 339.7 244.5

M.V. (mm) 313.92 216.54

M.A.S.S. (kg/m3) 90.78 69.9

MAKE Tamsa Tenaris

GRADE K55 K55

NQ. of JOINTS 48 182

TOTAL LENGTH 847.49 2536.2

KB TO CSD HEAD 6.17 6.17

SET AT (m) 645 2535



PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER (S)		RENTALS / SERVICES		MORNING	DAY		
	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CONG MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN C&G & CEMENT	WAIT ON CEMENT	NIPPLE UP & O.P.	TEST & O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING	blow mast	TD repair		try set			NO. TYPE	SHAPE (S)	STC-4739-ACUM-668670					
																												2 DERRICK	TYPE DERRICK						
																												SCREENS CHANGED	NEW LINED						
																												TOP	TOP						
MORN					10	875			0.5																	175		175	ACCUMULATOR			34			
DAY					30	675					1.25												0.25	0.75				175	MIDDLE	MIDDLE	KB UNIHREAD FLANGE			5.70	
TOTAL					400	1550			0.50		1.25												0.25	0.75		175		110	BOTTOM	BOTTOM	CREW VEHICLE				
																												110	BOTTOM	BOTTOM	FORKLIFT				

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH 24

BIT NO. 24

SIZE 215.9

WDC CODE

MANUFACTURER

TYPE

SERIAL NO. 6032374

ETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TT To MOC LOC BRO GAGE CDC REASON PULLED TOTAL RUN (HRS)

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE WATER BASED OIL BASED

TIME 200 600 900

DENSITY (kg/m3) 1035 1035 1025

FUNNEL VISCOSITY 36 36 36

FLUID LOSS (cm3) 9 9

pH 10.5 10.5 10.5

SOLIDS CONTROL

CENTRIFUGE

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

BOILERS

HRS RUN 0 HRS RUN 12

SOILER PH 11

STACK TEMP 180

DRILLER SIGNATURE Chad Snyder

SPECIAL EVENT

D.S.T.

SAFETY TOPIC

MDL

INVERT

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0 100 1.00 5 REVERSE CIRC.

100 430 3.50 8 TRIP P.O.O.H.W.D.S.T

430 615 1.75 25 LAY DOWN D.S.T TOOLS

615 1015 4.00 6 R/H FILL PIPE @ 1045m, 2021m, 2402m

1015 1045 0.50 8 SLIP-CUT 20m

1045 1200 1.25 8 TRIPS R/H

NOTES Insp dead line anchor, brake linkage, mast crown saver

trip mud cal=19.98 mea=20.53 diff=97

jas e reverse circ, goosh ds, lay down tool

boiler blow down #2, 3 x each

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH 24

BIT NO. 24

SIZE 215.9

WDC CODE

MANUFACTURER

TYPE

SERIAL NO. 6032374

ETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TT To MOC LOC BRO GAGE CDC REASON PULLED TOTAL RUN (HRS)

HOLE CONDITION

HOLE DRAG 12UP/6-DOWN

TORQUE AT BOTTOM 3701

FILL ON BOTTOM (m) 0

MUD RECORD

MUD TYPE POLYMER WATER BASED OIL BASED

TIME 1500 1030

DENSITY (kg/m3) 1030

FUNNEL VISCOSITY 36

FLUID LOSS (cm3) 9.0

pH 10.0

P.V.T 70.0

SOLIDS CONTROL

CENTRIFUGE

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

BOILERS

HRS RUN 5 HRS RUN 0

SOILER PH 11

STACK TEMP 165

DRILLER SIGNATURE Mike Wiebe

SPECIAL EVENT

CIRC

POOH

SAFETY TOPIC

MDL

INVERT

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200 1230 0.50 8 TRIPS R/H WASH LAST 2 STANDS TO BOTTOM

1230 1315 0.75 5 CIRC. BOTTOMS UP CHOKE MANIFOLD

1315 1530 2.25 5 CONDITION MUD & CIRC PRIOR TO LOGGING

1530 1545 0.25 22 BLOW BACK CHOKE LINES MANIFOLD W/AR

1545 1630 0.75 23 REPAIR GRABBER ON TOP DRIVE

1630 2245 6.25 6 PULL OUT OF HOLE TO LOG. FLOW CHECKS 3672 3509 1961

2245 2330 0.75 11 RIG UP LOGGERS

2330 2400 0.50 11 WIRE LINE LOGS - hms, ho-hs, ppc, lot

NOTES INSPECT DEAD-LINE ANCHOR, ALL MANIFOLD VALVES B.O.P. VALVES

REVIEW J.S.A.S ON TRIPPING, CIRCULATE, ADDING CHEMICALS

BLEW DOWN BOILERS #1, 3, 1 X SHUT IN @ 13:00

boiler #1, 3 on @ 20:00

RIGUP DATE 2005/01/23 TIME 13:15

RIG RELEASE TIME

WELL TYPE VERT

REIDITY NO

OPERATOR'S AFE 240346

KELLY BSHG 617

CONTRACTOR'S JOB NUM

YOUR SHEET SERIAL NUM AKTA40_20050313_18

VEHICLE SERIAL VERSION EDR_3-1_1_HF2 ETS 22

DRILLING CREW PAYROLL DATA

WELL NAME & NO. NORTHROCK et al Sah Cho L 71-64-30-125-30

YEAR 2005 MONTH 3 DAY 13

OPERATOR NORTHROCK RESOURCES LTD. CONTRACTOR AKITA DRILLING LTD.

RIG MANAGER Alivn Vogt RIG NO. 40

PROVINCE N.W.T. CAMP X YES NO RIG SAFETY DAYS 59

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MDW
DERRICK HAND		Ron Hall	12		RH
DERRICK HAND		Nathan Surinak	12		NS
MOTOR HAND		Shawn Imhann	12		SI
FLOOR HAND		Andrew Sew	12		AS
FLOOR HAND		James McPherson	12		JM
Wellsite Co-ordinator		Garry Legiehn	12		GL

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

52

DRIVERS

Mike Wiebe

Garry Legiehn

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		Chad Snyder	12		CS
DERRICK HAND		Andre Habel	12		AH
DERRICK HAND		Sean Breadner	12		SB
MOTOR HAND		Ken Smith	12		KS
FLOOR HAND		Sali Mohammed	12		SM
LEASE HAND		Tyler Sellers	12		TMS
Foreman must about		Douglas Christie	12		DC
Roost about		Garett Harley	12		GH
Roost about		Freddy Clement	12		FC

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

59

DRIVERS

Chad Snyder

Douglas Christie

LICENCE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

NORTHROCK RESOURCES LTD

CONTRACTOR

AKITA DRILLING LTD

SURFACE LOCATION

L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE

Kevin Amy

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Alvin Vogt

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) VIBS Signs Posted (If Required)

(4) Well Location & Stick Diagram Posted

(5) Flare Lines Staked

(6) BOP Data Performed

(7) Visually Inspected BOPs- Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (once/month)

(2) CAGDC Rig Safety Inspection Checklist (once/month)

(3) Mast Inspection before Raising or Lowering

(4) Crown Saver Checked

(5) Mast Wire Checked

YEAR

2005

MONTH

3

DAY

12

LAST CASING

339 7

MIN DIA

313 92

MASS

90 78

GRADE

Tamisa

NO. OF JOINTS

46

TOTAL LENGTH

647 49

KB TO CSG HEAD

6.17

SET AT (m)

645

FUEL @ 08:00 HRS

244 5

BOILER

2000

TEMPERATURE

7833

CURRENT CONDITIONS

DC 171

DC/OP SIZE

165

MASS

DC 71

GRADE

171

MIN DIA

5

T JNT O.D.

H90

TYPE

24

NO. OF JOINTS

PZ 9

PUMP TYPE

GARDNER DENVER

STROKE LENGTH

229

WIND DIRECTION

127

WIND SPEED

38 1

ICE

DP 127

ROAD CONDITION

38 1

ICE

DP 127

WELL RELEASE

2005/01/23

TIME

13 15

WELL TYPE

VERT

REENTRY

NO

OPERATOR'S AFE

240346

KELLY BEND

6.17

OP FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM

AKTA40_20050312_18

VENOR SOFTWARE VERSION

EDR 3-1.1_HF2 ETS 2.2

DRILLING CREW PAYROLL DATA

WELL NAME & NO

NORTHROCK et al Sah Cho L 71-64-30-125-30

YEAR

2005

MONTH

3

DAY

12

OPERATOR

NORTHROCK RESOURCES LTD.

CONTRACTOR

AKITA DRILLING LTD.

RIG MANAGER

Alvin Vogt

RIG NO

40

PROVIDE

NW T

CAMP

X

YES

NO

RIG SAFETY DAYS

58

MORNING TOUR

FROM 0

TO 1200

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER

Mike Wiebe

12

MDW

DERRICK HAND

Ron Hall

12

R.H

DERRICK HAND

Nathan Sunnak

12

N.S

MOTOR HAND

Shawn Imhann

12

S.I

FLOOR HAND

Andrew Sew

12

A.S

FLOOR HAND

James McPherson

12

J.M

Wellsite Co-ordinator

Garry Legiehn

12

G.L

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

51

DRIVERS

Mike Wiebe

Garry Legiehn

DAY TOUR

FROM 1200

TO 2400

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER

Chad Snyder Miller

12

C.S

DERRICK HAND

Andre Habel

12

A.H

DERRICK HAND

Sean Breadner

12

S.B

MOTOR HAND

Ken Smith

12

K.S

FLOOR HAND

Sali Mohammed

12

S.M

LEASE HAND

Tyler Sallers

12

T.MS

Foreman roust about

Douglas Christie

12

D.C

Roust about

Gareth Harley

12

G.H

Roust about

Freddy Clement

12

F.C

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

58

DRIVERS

Chad Snyder Miller

Douglas Christie

DRILLING ASSEMBLY (AT END OF TOUR)

DRILLING ASSEMBLY (AT END OF TOUR)

DRILL PIPE STANDS

2407 92

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

2491 18

WT OF D.C.

WT OF STRING

77

BIT RECORD

BIT NO.

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI To MDC LOC BRO GAGE ODC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MORNING TOUR

MUD TYPE POLYMER

WATER BASED X OIL BASED

FROM TO D-R-C RPM WOB

TIME

DENSITY (kg/m3)

FUNNEL VISCOSITY

FLUID LOSS (cm3)

pH

P V T

MUD MATERIALS ADDED

PRODUCT AMOUNT UNIT

SOLIDS CONTROL

CENTRIFUGE

INTAKE DENSITY (kg/m3)

OVER FLOW DENSITY

UNDER FLOW DENSITY

CIRCULATION PRESSURE (kPa)

PUMP NO. 1

PUMP NO. 2

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

HRS RUN

12

HRS RUN

12

BOILER PH

11

BOILER PH

11

DRILLER SIGNATURE

Mike Wiebe

METRES DRILLED

FROM TO ELAPSED TIME CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0 115 1.25 25 LAY DOWN DC

115 130 0.25 21 SAFETY MEETING PICK UP DST & WHIS ON CORINOXSAFE-KOTE

130 400 2.50 18 DRILL STEM TEST PICK UP & MAKE UP TOOLS

400 830 4.50 8 RSH FILL EVERY 5 STANDS W/20L WATER 2L CORINOX&SAME WSAFE-KOTE

830 STRAP PIPE R/LH

830 845 0.25 21 SAFETY MEETING W/D.S.T HAND DRILL CREW

845 1200 3.25 18 DRILL STEM TEST

NOTES INSP DEAD LINE ANCHOR,BRAKE LINKAGE&TEST CROWN SAVER

JSA S LAY DOWN D C W/UTUGGERS,PICK UP DST TOOLS,RSH W/ST TOOLS

BOILER BLOW DOWN #1,2,3 3X EACH

SPECIAL EVENT TIME / DEPTH

LAY DOWN D C

PICK DST TOOLS

SAFETY TONE

MEK

MAP

WHIMS

16849

DRILLING ASSEMBLY (AT END OF TOUR)

DRILLING ASSEMBLY (AT END OF TOUR)

DRILL PIPE STANDS

2407 92

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

2491 18

WT OF D.C.

WT OF STRING

77

BIT RECORD

BIT NO.

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI To MDC LOC BRO GAGE ODC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

DAY TOUR

MUD TYPE POLYMER

WATER BASED X OIL BASED

FROM TO D-R-C RPM WOB

TIME

DENSITY (kg/m3)

FUNNEL VISCOSITY

FLUID LOSS (cm3)

pH

P V T

MUD MATERIALS ADDED

<

LICENCE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

CONTRACTOR

NORTHROCK RESOURCES LTD

AKITA DRILLING LTD

SURFACE LOCATION

UNIQUE ID

L-71-64-30-125-30

1 / 0

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Kevin Amy

Alvin Vogt

DAILY CHECKS

YEAR MONTH DAY

(1) Daily Walk Around Inspection

2005 3 11

(2) Detailed Inspection Weekly (Using Check List)

40

(3) VSD Signal Posted if Required

FUEL @ 01:00 HRS

(4) Well Licence & Block Diagram Posted

BOILER 3000

(5) Flare Lines Shaded

TEMPERATURE

(6) BOP Data Performed

DC/DP SIZE

(7) Visually Inspect BOPs- Flare Lines & Degasser Lines

DC 171

(1) Rig Site Health & Safety Meeting (once a month)

DP 127

(2) KACDC Rig Safety Inspection Checklist (once a month)

DP 127

(3) Mast Inspection before Raising or Lowering

38 1

(4) Cranes Saver Checked

X 95

(5) Motor Kils Checked

102

LAST CASING TURNING OR LINER

MASS

339 7

313 92

90 78

244 5

216.54

69 9

MAKE

GRADE

Tamara

K55

NO. OF JOINTS

TOTAL LENGTH

46

647.49

KB TO CSO HEAD

SET AT (m)

6 17

2535

SPUD DATE

TIME

2005/01/23

13.15

RIG RELEASE

TIME

VERT

NO

WELL TYPE

RE-ENTRY

240346

OP FUEL

OPERATOR'S AFE

CONTRACTOR'S JOB NAME

6.17

AKTA0_20050311_1B

TOUR SHEET SERIAL NUM

VENDOR SOFTWARE VERSION

EDR 3-1.1_HF2 ETS 2.2

CAODC

PASON

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

GROUP & TEARDOWN

DRILL ACTUAL

REMAINING

CORING

CONC MUD & CONC

TRIPS

RIG SERVICE

REPAIR RIG

CUT OFF DRILL LINE

DEV SURVEY

WIRELINE LOGS

RUN CSG & CEMENT

WAIT ON CEMENT

NPPL UP BOP

TEST BOP

DRILL/STEM TEST

PLUG BACK

SQUEEZE CEMENT

FISHING

DR. WORK

SAFETY MEETING

BOPD

TOTALS

MORN

DAY

TOTAL

0.5

10.5

22.50

0.25

0.25

0.50

0.25

0.25

0.50

SHALE SHAKER (S)

RENTALS / SERVICES

MORNING

DAY

NO. 2

TYPE

TYPE

SLC 5771 ACCUM-659915

ACCUMULATOR

34

KB UNHEAD FLANGE

5.70

CREW VEHICLE

FORKLIFT

DRILLING CREW PAYROLL DATA

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR MONTH DAY

2005 3 11

OPERATOR

CONTRACTOR

NORTHROCK RESOURCES LTD.

AKITA DRILLING LTD

RIG MANAGER

RIG NO

Alvin Vogt

40

PROVINCE

CAMP

YES

NO

RIG SAFETY DAYS

N.W.T

X

57

MORNING TOUR

FROM

TO

INJURIES

0

1200

0

CREW

SOC INS. NO

NAME

HRB

YES

NO

DRILLER

Mike Wiebe

12

MCW

DERRICK HAND

Ron Hall

12

RH

DERRICK HAND

Nathan Sunnak

12

NS

MOTOR HAND

Shawn Imhann

12

SI

FLOOR HAND

Andrew Sawi

12

AS

FLOOR HAND

James McPherson

12

JM

Weibitz Co-ordinator

Garry Legiehn

12

GL

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

Mike Wiebe

50

Garry Legiehn

DAY TOUR

FROM

TO

INJURIES

1200

2400

0

CREW

SOC INS. NO

NAME

HRB

YES

NO

DRILLER

William Cairns

4

WC

DRILLER

Chad Snyder

8

CS

DERRICK HAND

Andre Habel

12

AH

DERRICK HAND

Sean Breadner

12

SB

MOTOR HAND

Ken Smith

12

KS

FLOOR HAND

Sail Mohammed

12

SM

LEASE HAND

Tyler Salters

12

TMS

Foreman roust about

Douglas Christie

12

DC

Roust about

Garett Harley

12

GH

Roust about

Freddy Clement

12

FC

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

William Cairns

57

Douglas Christie

LICENCE NO
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
OPERATOR
NORTHROCK RESOURCES LTD
CONTRACTOR
AKITA DRILLING LTD
SURFACE LOCATION
L-71-64-30-125-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy
SIGNATURE OF CONTRACTOR'S RIG MANAGER
Alvin Vogt

DAILY CHECKS
(1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) VDS Rigged & Tested & Required
(4) Well License & Block Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines
(8) Rig Site Health & Safety Meeting (one before start)
(9) CAODC Rig Safety Inspection Checklist (one before start)
(10) Mast Inspection before Raising or Lowering
(11) Crown Shear Checked
(12) Motor Vibs Checked

YEAR 2005 MONTH 3 DAY 10
REG NO. 40
FUEL @ 00:00 HRS 3500
TEMPERATURE 19
CURRENT CONDITIONS 19
WIND DIRECTION N.W.
ROAD CONDITION DRY
ICE

Q.D. (mm) 339.7
M.H. (mm) 313.92
M.A.S. (g/m) 90.78
MAKE Tamsa
GRADE K55
NO. OF JOINTS 46
TOTAL LENGTH 847.49
K.S. TO CSG HEAD 6.17
SET AT (m) 645

DC/UP SIZE 171
DC 171
DP 127
DP 127

MASS 165
E 75
X 95

GRADE 71
E 75
X 95

M.H. (mm) 171
T.H. (mm) 171
T.H. (mm) 171

TYPE THREADED
H90
H90
H90

NO. OF JOINTS 24
PZ 9
PZ 9

PUMP TYPE
GARDNER DENVER
GARDNER DENVER

STROKE LENGTH 229
229

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
GROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CORING MUD & DRG	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NEELED UP BOP	TEST BOP	DRILLER TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR WORK	SAFETY MEETING							
MORN					3.5					7.75									0.25	0.5							12.00
DAY										12.0																	12.00
TOTAL					3.50					19.75									0.25	0.50							24.00

DRILLING ASSEMBLY (AT END OF TOUR)
BIT NO. 9
SIZE 215.9
WCC CODE 6 1 7
MANUFACTURER HUGHES
TYPE HR-S44
SERIAL NO. 5060335
JETS 19.1 19.1
DEPTH OUT (m) 3674
DEPTH IN (m) 3453
TOTAL DRILLED (m) 221.00
TOTAL HRS RUN 55.75
CUTTING STRUCTURE
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FULL ON BOTTOM (m)
MUD TYPE
WATER BASED
MUD RECORD
CENTRIFUGE
BOILERS
METRES DRILLED
TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
TRIPS P O O H. F. 1758-48m FLOW CHECK AS REQUIRED
SAFETY MEETING PRIOR TO LAYING OUT TOOLS
DIR. WORK LAY OUT TOOLS
SAFETY MEETING PRIOR TO RIG UP & LOGGING
RIG TO WIRE LINE LOG & DO SAME RUN# 1-SONIC-IMAGE. TOOL
7.15 LOG ON BOTTOM DEPTH @3675.9
2 EXTRA hr FOR PRETOUR meetings
TRIP SHEET CAL. 22.11m ACC. 24.91m DIFF. 2.80m
MONITOR WELL @ TRIP TANK HOLE TAKES 65M3 AN HR
REVIEW JSA ON TRIPPING
BLOW DOWN BOILERS 3 TIMES EACH # 1 2-3
FUNCTION UPPER PIPE RAMS 4 SEC. TO GO
DRILLER SIGNATURE
Mike Wiebe
SPECIAL EVENT
LAY OUT DIR. TOOLS
SAFETY TOPIC
LOGGING
M4
MCP

DRILLING ASSEMBLY (AT END OF TOUR)
BIT NO. 9
SIZE 215.9
WCC CODE 6 1 7
MANUFACTURER HUGHES
TYPE HR-S44
SERIAL NO. 5060335
JETS 19.1 19.1
DEPTH OUT (m) 3674
DEPTH IN (m) 3453
TOTAL DRILLED (m) 221.00
TOTAL HRS RUN 55.75
CUTTING STRUCTURE
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FULL ON BOTTOM (m)
MUD TYPE
WATER BASED
MUD RECORD
CENTRIFUGE
BOILERS
METRES DRILLED
TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
WIRE LINE LOG #1 SONIC-IMAGE
RUN #2 AT HRMS HRLA, HGNS LDT GR. 169
RERUN #2 LOGG
MONITOR WELL THROUGH TRIP TANK HOLE TAKES 65M3 HR
INSPECTION BRAKE LINKAGE DEAD END LINK ANCHOR
JSA S LOGGING
BOILER BLOW DOWN #1 2.3 X EACH
2 HRS EXTRA PRETOUR
LOCK-OUT POLICY
SAFETY TOPIC
LOGGING
M4
MCP

SPUD DATE 2005/01/23
TIME 13 15
RIG RELEASE
WELL TYPE VERT
RE-ENTRY NO
OPERATOR'S AFE 240346
KELLY BEAG 6 17
OP FUEL
CONTRACTOR'S JOB NUM
TOUR SHEET SERIAL NUM AKTA40_20050310_1B
VENDOR SOFTWARE VERSION EDR_3-1_1_HF2 ETS 2.2

DRILLING CREW PAYROLL DATA
WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30
YEAR 2005 MONTH 3 DAY 10
OPERATOR NORTHROCK RESOURCES LTD.
CONTRACTOR AKITA DRILLING LTD
RIG MANAGER Alvin Vogt
RIG NO. 40
PROVINCE NWT
CAMP X YES NO
RIG SAFETY DAYS 56

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		William Cairns	10		WC
DERRICK HAND		Terry Sanderson	10		TS
DERRICK HAND		Jerry Hayman	10		JH
MOTOR HAND		Ken Lauck	10		KL
FLOOR HAND		Tyler Potts	10		TP
FLOOR HAND		William Andrew	10		WA
Wellsite Co-ordinator		Garry Legiehn	12		GL

RATE SCHEDULE X REGULAR
REPAIR
INVERT
CREW SAFETY DAYS
DRIVERS
William Cairns
49
Terry Sanderson

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	10		MOW
DERRICK HAND		Ron Hall	10		RH
DERRICK HAND		Nathan Surnak	10		NS
MOTOR HAND		Shawn Imhann	10		SI
FLOOR HAND		Andrew Sewi	10		AS
Forman rust about		Douglas Christie	12		DC
Roust about		Freddy Clement	12		FC
DRILLER		William Cairns	8		WC
DERRICK HAND		Andre Habel	8		AH
DERRICK HAND		Sean Breadner	8		SB
MOTOR HAND		Ken Smith	8		KS
FLOOR HAND		Sali Mohammed	8		SM
LEASE HAND		Tyler Sellers	8		TMS
Roust about		Garett Harley	4		GH

RATE SCHEDULE X REGULAR
REPAIR
INVERT
CREW SAFETY DAYS
DRIVERS
Mike Wiebe
Douglas Christie
58



PASON

LICENCE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

CONTRACTOR

NORTHROCK RESOURCES LTD

AKITA DRILLING LTD

SURFACE LOCATION

UNIQUE ID

L-71-64-30-125-30

1/10

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Kevin Amy

Alvin Vogt

DAILY CHECKS

(1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) VMS Signs Posted (if Required)
(4) Well Licence & Sign Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's-Flare Lines & Discharge Lines
(8) Rig Site Health & Safety Meeting (onshore/monthly)
(9) Check Rig Safe Inspection Checklist (onshore/monthly)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Rils Checked

YEAR

MONTH

DAY

2005

3

9

LAST CASING TUBING OR LINER

OD (mm)

MD (mm)

MASS (kg/m)

MAKE

GRADE

NO. OF JOINTS

TOTAL LENGTH

KB TO CSD HEAD

SET AT (m)

339 7

313 92

90 78

Tarisa

K55

46

647 49

6 17

645

TEMPERATURE

DC/DP

DC/DP

MASS

GRADE

MINIMUM ID

T. ANT. O.D.

TYPE

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

19

171

165

DC

71

171

5

H90

24

PZ 9

GARDNER DENVER

229

OPERATOR'S AFE

240346

VEHICLE SERIAL NUM

AKTA40_20050309_18

VEHICLE SOFTWARE VERSION

EDR_3-1_1_HF2 ETS 22



CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSD & CEMENT	WAIT ON CEMENT	NOBLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MEETING	REPORTS	REPORTS	REPORTS	REPORTS	REPORTS	REPORTS	REPORTS
MORN	6.0			1.25	3.5	0.25																1.0					12.00
DAY				4.25	6.25			1.5																			12.00
TOTAL	6.00			5.50	9.75	0.25		1.50														1.00					24.00

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

3436 11

BIT RECORD

BIT NO.

9

SIZE

215 9

WOC CODE

6 1 7

MANUFACTURER

HUGHES

TYPE

HR-S44

SERIAL NO.

5060335

DEPTH OUT (m)

3674

DEPTH IN (m)

3453

TOTAL DRILLED (m)

221.00

TOTAL HRS RUN

55 75

MORNING TOUR

MUD TYPE

POLYMER

WATER BASED

X

OIL BASED

FROM

3655

TO

3674

D-R-C

D

RPM

30

WOB

17

TIME

200

600

DENSITY (kg/m3)

1040

1035

FUNNEL VISCOSITY

36

35

FLUID LOSS (cm3)

9

9

pH

10.5

10.5

PVT

75.6

75.0

MUD RECORD

PRODUCT

AMOUNT

UNIT

CAUSTIC SODA

2

SK

DRISPAK

1

SK

KELZAN XCD

4

SK

METRES DRILLED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

0000

400

4 00

2

0000

415

0.25

7

415

615

2.00

2

615

730

1.25

5

730

745

0.25

8

745

845

1.00

22

845

1200

3.25

8

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

DRILL ACTUAL 216mm F/ 3655-3670m

RIG SERVICE FUNCTION UPPER PIPE RAMS 4 SEC CO

DRILL ACTUAL 216mm F/3670- 3674m

CONDITION MUD & CIRC UP SAMPLE

BREAK DOWN STAND

FIX GRABER ON TOP DRIVE & CIRC

FLOW CHECK POOH FLOW CHECK@3524.PUMP PILL.BLOW BACK STAND PIPE

FLOW CHECK @3674

DRILLER SIGNATURE

Mike Wiebe

SAFETY TOPIC

168

16849

DRILLING CREW PAYROLL DATA

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR

2005

MONTH

3

DAY

9

OPERATOR

CONTRACTOR

NORTHROCK RESOURCES LTD.

AKITA DRILLING LTD

RIG MANAGER

40

Alvin Vogt

PROVINCE

CAMP

X

YES

NO

RIG SAFETY DAYS

55

NWT

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		William Cairns	12		WC
DERRICK HAND		Terry Sanderson	12		TS
DERRICK HAND		Jerry Hayman	12		JH
MOTOR HAND		Ken Lauck	12		KL
FLOOR HAND		Tyler Potts	12		TP
FLOOR HAND		William Andrew	12		WA
Website Co-ordinator		Garry Legiehn	12		GL

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

48

DRIVERS

William Cairns

Terry Sanderson

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

3436 11

BIT RECORD

BIT NO.

9

SIZE

215 9

WOC CODE

6 1 7

MANUFACTURER

HUGHES

TYPE

HR-S44

SERIAL NO.

5060335

DEPTH OUT (m)

3674

DEPTH IN (m)

3453

TOTAL DRILLED (m)

221.00

TOTAL HRS RUN

55 75

DAY TOUR

MUD TYPE

POLYMER

WATER BASED

X

OIL BASED

FROM

3655

TO

3674

D-R-C

D

RPM

30

WOB

17

TIME

1400

1800

DENSITY (kg/m3)

1045

1045

FUNNEL VISCOSITY

36

38

FLUID LOSS (cm3)

9.3

9

pH

10

10

PVT

62.3

57.4

MUD RECORD

PRODUCT

AMOUNT

UNIT

DRISPAK

3

SK

KELZAN XCD

3

SK

CAUSTIC SODA

4

SK

BARITE

28

SK

ZK7

2

SK

METRES DRILLED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

1200

1330

1 50

9

1330

1515

1 75

6

1515

1930

4 25

5

1930

2400

4 50

6

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FLOW CHECK SLIP & CUT

RH-FILL PIPE WASH 1 STAND DOWN

CONDITION MUD & CIRC

P O O H F/ 3674- 17588m FLOW CHECK AS REQUIRED

DRILLER SIGNATURE

William Cairns

SAFETY TOPIC

168

16849

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MDW
DERRICK HAND		Ron Hall	12		RH
DERRICK HAND		Nathan Surinak	12		NS
MOTOR HAND		Shawn Imhann	12		SI
FLOOR HAND		Andrew Sewi	12		AS
FLOOR HAND		Peter Andrew	12		PW
Foreman rust about		Douglas Christie	12		
Roust about		Freddy Clement	12		FC
Roust about		Joel Doctor	12		

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

55

DRIVERS

Mike Wiebe

Douglas Christie

Form containing various sections: License No, Well Name, Operator, Contractor, Rig Details, Daily Checks, Mud Record, Metres Drilled, Time Log, Morning Tour, Crew Safety, and Drilling Crew Payroll Data. Includes logos for CADC and PASON.

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy

SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

DAILY CHECKS

YEAR 2005 MONTH 3 DAY 7

RIG NO. 40

FUEL @ 08:00 HRS 5391

LAST CASING 339 7 313.92 90 78 244 5 216 54 69.9

MASS 339 7 313.92 90 78 244 5 216 54 69.9

GRADE 339 7 313.92 90 78 244 5 216 54 69.9

NO. OF JOINTS 339 7 313.92 90 78 244 5 216 54 69.9

TOTAL LENGTH 339 7 313.92 90 78 244 5 216 54 69.9

KB TO CSG HEAD 339 7 313.92 90 78 244 5 216 54 69.9

SET AT (m) 339 7 313.92 90 78 244 5 216 54 69.9

SPUD DATE 2005/01/23 TIME 13 15

RIG RELEASE TIME 13 15

WELL TYPE VERT

OPERATOR'S AFE 240346

WELL BOND 6.17

CONTRACTOR'S JOB NUM AKTA40_20050037_18

YOUR SHEET SERIAL NUM EDR_3-1-1_HF2 ETS 2.2

VENDOR SOFTWARE VERSION



PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
RIPIP & TEARDOWN																											
DRILL ACTUAL		11.5							0.25																		12.00
REAMING																											12.00
CORING																											12.00
COND MUD & CIRC																											24.00
TRIPS																											
RIG SERVICE																											
REPAIR NO																											
OUT OFF DRILL LINE																											
DEV SURVEY																											
WIRELINE LOGS																											
RUN CIG & CEMENT																											
WAIT ON CEMENT																											
HOPIE UP BOP																											
TEST BOP																											
DRILLTEST TEST																											
PLUG BACK																											
BOULEE CEMENT																											
FISHING																											
DIR. WORK																											
SAFETY MEETING																											
REPORT TO BOP																											
SHALE SHAKER (S)																											
RENTALS / SERVICES																											
MORNING																											
DAY																											

DRILLING CREW PAYROLL DATA									
WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30									
YEAR 2005 MONTH 3 DAY 7									
OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD									
RIG NO. 40									
PROVIDE N.W.T. CAMP X YES NO RIG SAFETY DAYS 53									

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	MORNING TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	Q.D. 24	BIT NO. 9	MUD TYPE POLYMER	WATER BASED X OIL BASED	FROM TO D-R-C RPM WOB	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1	VERTI TRAK	171 9.37	SIZE 215.9	TIME 200 800 1000	3469 3475 D 30 15	0000 730 7.50 2	DRILL ACTUAL 216 mm F3469-3497m KB
1	FILTER SUB	178 1.71	WOC CODE 6 1 7	DENSITY (kg/m3) 1040 1040 1040	3475 3487 D 0 17	730 745 0.25 10	DEVIATION SURVEY
1	FLOAT SUB	171 71	MANUFACTURER HUGHES	FUNNEL VISCOSITY 35 36 35	3487 3514 D 0 17	745 800 0.25 7	RIG SERVICE FUNCTION UPPER PIPE RAMS 4 SEC TO CO
1	ROLLER REAMER	210 1.39	TYPE HR-S44	FLUID LOSS (cm3) 9 8 8		800 1200 4.00 2	DRILL ACTUAL 216MM F3497-3514
1	6.75 D.C.	171 138.84	SERIAL NO. 5060335	pH 10.5 11 10.5			
1	JAR	170 9.21	SETS 19 1 19 1				
1	6.75 D.C.	171 18.42					
1	X.O.	171 50					
1	H.W.D.P.	127 83.26	DEPTH OUT (m) 3514	MUD MATERIALS ADDED	SOLIDS CONTROL	PUMP NO 1 PUMP NO 2	
			DEPTH IN (m) 3453	PRODUCT AMOUNT UNIT	CENTRIFUGE	UNDER FLOW DENSITY	
			TOTAL DRILLED (m) 61.00	DRISPAK 2 SK	HOURS RUN INTAKE DENSITY (kg/m3) OVER FLOW DENSITY UNDER FLOW DENSITY	12560 140 87 140 87	
			TOTAL HRS RUN 16.25	KAUSTIC SODA 2 SK	REDUCED PUMP SPEED		
				KELZAN 2 SK	3121 @ 85 @ 300		
				CUTTING STRUCTURE	DEVIATION SURVEYS		
				T1 T2 MDC LOC BRG GAGE CAC REASON PULLED TOTAL RUN (HRS)	DEPTH (m) DEVIATION DIRECTION		
					3480 04		
					3500 06		
114	DRILL PIPE STANDS	3283.47	HOLE CONDITION				
	DRILL PIPE SINGLES		HOLE DRAG 10 UP & 10-15 DOWN				
	KELLY DOWN	13 12	TORQUE AT BOTTOM 5200				
	TOTAL	3514.00	FILL ON BOTTOM (m) 0				
	WT OF D.C.	25					
	WT OF STRING	149					

MORNING TOUR			FROM	0	TO	1200	INJURED	
CREW	SOC INS. NO	NAME	HRS		YES	NO		
DRILLER		William Cairns	12			WC		
DERRICK HAND		Terry Sanderson	12			TS		
DERRICK HAND		Jerry Hayman	12			JH		
MOTOR HAND		Ken Lauck	12			KL		
FLOOR HAND		Tyler Potts	12			TP		
FLOOR HAND		William Andrew	12			WA		

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	DAY TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	Q.D. 24	BIT NO. 9	MUD TYPE POLYMER	WATER BASED X OIL BASED	FROM TO D-R-C RPM WOB	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1	VERTI TRAK	171 9.37	SIZE 215.9	TIME 1400 1800 2200	3514 3554 D 0 17	1200 1400 2.00 2	DRILL ACTUAL 216MM F3514-3522
1	FILTER SUB	178 1.71	WOC CODE 6 1 7	DENSITY (kg/m3) 1040 1040 1040		1400 1415 0.25 23	BOP DRILL WELL SECURE 108 SECONDS
1	FLOAT SUB	171 71	MANUFACTURER HUGHES	FUNNEL VISCOSITY 36 38 37		1415 1515 1.00 2	DRILL ACTUAL 3522 3526
1	ROLLER REAMER	210 1.39	TYPE HR-S44	FLUID LOSS (cm3) 9.5 9 9		1515 1530 0.25 7	RIG SERVICE GREASE TOP DRIVE FUNC LOWER PIPE 5 SEC C/O
1	6.75 D.C.	171 138.84	SERIAL NO. 5060335	pH 10.5 10.5 10.5		1530 2330 8.00 2	DRILL ACTUAL 216MM F3526-3554m
1	JAR	170 9.21	SETS 19 1 19 1	PVT 71.3 70.6 71.5		2330 2400 0.50 22	WORK ON TOP DRIVE ELECTRICAL
1	6.75 D.C.	171 18.42					
1	X.O.	171 50					
1	H.W.D.P.	127 83.26	DEPTH OUT (m) 3554	MUD MATERIALS ADDED	SOLIDS CONTROL	PUMP NO 1 PUMP NO 2	
			DEPTH IN (m) 3453	PRODUCT AMOUNT UNIT	CENTRIFUGE	UNDER FLOW DENSITY	
			TOTAL DRILLED (m) 101.00	DRISPAK 3 SK	HOURS RUN INTAKE DENSITY (kg/m3) OVER FLOW DENSITY UNDER FLOW DENSITY	12743 140 88 140 88	
			TOTAL HRS RUN 27.25	KELZAN XCD 3 SK	REDUCED PUMP SPEED		
				PRE MIX TO MAIN 18 MG	3140 @ 88 @ 1521		
				CUTTING STRUCTURE	DEVIATION SURVEYS		
				T1 T2 MDC LOC BRG GAGE CAC REASON PULLED TOTAL RUN (HRS)	DEPTH (m) DEVIATION DIRECTION		
					3520 .21		
					3540 06		
115	DRILL PIPE STANDS	3292.19	HOLE CONDITION				
	DRILL PIPE SINGLES		HOLE DRAG 4-12 UP 8-12 DOWN				
	KELLY DOWN	0	TORQUE AT BOTTOM 4668				
	TOTAL	3555.84	FILL ON BOTTOM (m) 0				
	WT OF D.C.	25					
	WT OF STRING	149					

DAY TOUR		FROM	1200	TO	2400	INARIES	
CREW	SOC INS. NO	NAME		HRS		YES	NO
DRILLER		Mike Wiebe		12			MDW
DERRICK HAND		Ron Hall		12			R H
DERRICK HAND		Nathan Surinak		12			N S
MOTOR HAND		Shawn Imhann		12			S I
FLOOR HAND		Andrew Sewi		12			A S
FLOOR HAND		Peter Andrew		12			P W
Foreman roust about		Steve Pringle		12			ST
Roust about		Freddy Clement		12			F C
Roust about		Joel Doctor		12			JD

WELL NAME & NO: NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR: NORTHROCK RESOURCES LTD CONTRACTOR: AKITA DRILLING LTD

SURFACE LOCATION: L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER: Allyn Vogt

DAILY CHECKS: (1) Daily Walk Around Inspection (2) Cleaned Inspection (3) VIB Signal Tested (4) Well Licence & Stick Diagram Posted (5) Para Lines Status (6) BOP Data Performance (7) Visually Inspected BOPs Para Lines & Degasser Lines

YEAR: 2005 MONTH: 3 DAY: 6

Q.D. (m): 339.7 313.92 90.78 244.5 216.54 69.9 244.5 216.54 69.9 244.5 216.54 69.9

MASS (kg/m): 313.92 90.78 244.5 216.54 69.9 244.5 216.54 69.9 244.5 216.54 69.9

GRADE: K35 45 647.48 6.17 845 K35 182 2530.2 6.17 2535

NO. OF JOINTS: 46 647.48 6.17 845 182 2530.2 6.17 2535

TOTAL LENGTH: 647.48 6.17 845 182 2530.2 6.17 2535

HB TO CSG HEAD: 6.17 845 182 2530.2 6.17 2535

SET AT (m): 845 182 2530.2 6.17 2535

TEMPERATURE: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

DC/DP SIZE: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

MASS: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

GRADE: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

MINIMUM ID: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

T JNT O.D.: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

TYPE THREAD: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

NO. OF JOINTS: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

PUMP TYPE: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

PUMP MANUFACTURER: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

STROKE LENGTH: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

WIND DIRECTION: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

WIND SPEED: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

ROAD CONDITION: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

ICE: 171 165 71 171 5 190 24 229 127 38.1 102 168 4 1/2 IF 139 220

DRILLING CREW PAYROLL DATA

WELL NAME & NO: NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR: NORTHROCK RESOURCES LTD CONTRACTOR: AKITA DRILLING LTD

RIG MANAGER: Allyn Vogt RIG NO: 40

PROVINCE: NLW T CAMP: X YES NO RIG SAFETY DAYS: 52

RATE SCHEDULE: X REGULAR REPAIR INVERT

CREW SAFETY DAYS: 45 DRIVERS: William Cairns Terry Sanderson

DAY TOUR: FROM 1200 TO 2400 INJURIES

CREW: SOC INS. NO. NAME HRS YES NO

DRILLER: William Cairns 12 WC

DERRICK HAND: Terry Sanderson 12 TS

DERRICK HAND: Jerry Hayman 12 JH

MOTOR HAND: Ken Lauck 12 KL

FLOOR HAND: Tyler Potts 12 TP

FLOOR HAND: William Andrew 12 WA

RATE SCHEDULE: X REGULAR REPAIR INVERT

CREW SAFETY DAYS: 52 DRIVERS: Mike Wiebe Steve Pringle

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD SURFACE LOCATION L-71-64-30-125-30 SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

- DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (Using Check List) (3) HSS Signs Posted & Required (4) Well License & Slack Diagram Posted (5) Flow Lines Staked (6) BOP Data Performed (7) Visually Inspect BOPs: Flow Lines & Degasser Lines (1) Rig Site Health & Safety Meeting (onshore/offshore) (2) CAODC Rig Safety Inspection Checklist (onshore/offshore) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Kilo Checked

YEAR 2005 MONTH 3 DAY 4 LAST CASING TUBING OR LINER 339 7 313.92 90 78 Tarnish 244 5 216.54 68 9 Tarnish K55 46 647.48 6.17 645 K55 182 2536.2 6.17 2535 Q.D. (mm) MINID (mm) MASS (kg/m3) MAKE GRADE NO OF JOINTS TOTAL LENGTH KB TO CSG HEAD SET AT (m) BRID DATE 2005/01/23 TIME 13 15 RIG RELEASE TIME RE-ENTRY NO OPERATOR AFE 240346 KELLY BAND 6.17 OP FUEL 5 CONTRACTOR'S JOB NUM AKT40_20050304_18 YOUR SHEET SERIAL NUM EDR 3-1 1_HF2 ETS 2.2 VENDOR SOFTWARE VERSION



PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
GROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CONO MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	OUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	SHOULDER UP B.G.P	TEST B.G.P	DRILLSTEM	PLUG BACK	SQUEEZE CEMENT	FISHING	DR WORK	SAFETY MEETING							
MORN	11.5					0.25			0.25																		12.00
DAY	10.5				1.0	0.25	0.25																				12.00
TOTAL	22.00				1.00	0.25	0.50		0.25																		24.00

SHALE SHAKER (S)	RENTALS / SERVICES	MORNING	DAY
NO 2 TYPE 2	SLC 3762-ACCU 641812		
NO 2 TYPE 2	ACCUMULATOR	34	
NO 2 TYPE 2	KB UNIHEAD FLANGE	5.70	
NO 2 TYPE 2	CREW VEHICLE		
NO 2 TYPE 2	FORKLIFT		

DRILLING CREW PAYROLL DATA WELL NAME & NO NORTHROCK et al Sah Cho L 71-64-30-125-30 YEAR 2005 MONTH 3 DAY 4 OPERATOR NORTHROCK RESOURCES LTD. CONTRACTOR AKITA DRILLING LTD. RIG MANAGER Alvin Vogt RIG NO 40 PROVINCE N W T CAMP X YES NO RIG SAFETY DAYS 50

BIT RECORD MORNING TOUR MUD RECORD METRES DRILLED TIME LOG DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		William Cairns	12		WC
DERRICK HAND		Terry Sanderson	12		TS
DERRICK HAND		Jerry Hayman	12		JH
MOTOR HAND		Ken Lauck	12		KL
FLOOR HAND		Tyler Potts	12		TP
FLOOR HAND		William Andrew	12		WA

BIT RECORD DAY TOUR MUD RECORD METRES DRILLED TIME LOG DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MOW
DERRICK HAND		Ron Hall	12		RH
DERRICK HAND		Nathan Surinak	12		NS
MOTOR HAND		Shawn Imhann	12		SI
FLOOR HAND		Andrew Sewi	12		AS
FLOOR HAND		Peter Andrew	12		PW
Foreman rust about		Steve Pringle	12		ST
Roust about		Freddy Clement	12		FC
Roust about		Joel Doctor	12		JD

LICENCE NO WELL NAME & NO NORTHTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30 UNIQUE ID 1/10

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Location & Block Diagram Posted (5) Flare Lines Staked (6) BOP Drills Performed (7) Visually Inspected BOP-Flare Lines & Doghouse Lines (1) Rig Site Health & Safety Meeting (once/week/month) (2) CAODC Rig Safety Inspection Checklist (once/week/month) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Kite Checked

YEAR 2005 MONTH 3 DAY 3

LAST CASING TURNING ON LINE IN 339 7 313.92 90 78 244 5 216.54 69 9

Q.D. (mm) MIN.D. (mm) MASS (kg/m3) MAKE GRADE NO. OF JOINTS TOTAL LENGTH HB TO CSG HEAD SET AT (m)

339 7 313.92 90 78 244 5 216.54 69 9

TEMPERATURE 22 DO TOP DO BOTTOM DO TOP DO BOTTOM

171 165 171 171 5 H90 24 PZ 9 GARDNER DENVER 229

127 38 1 E 75 102 168 4 1/2 IF 261 PZ 9 GARDNER DENVER 229

127 38 1 X 95 102 168 4 1/2 IF 139

SHALE SHAKER (S) NO TYPE DERRICK SLC 3762-ACCU 641812

SCREENS CHANGED NEW USED ACCUMULATOR 34

TOP TOP KG - UNHEAD FLANGE 5 70

MIDDLE MIDDLE CREW VEHICLE

BOTTOM BOTTOM FORKLIFT

DRILLING CREW PAYROLL DATA

WELL NAME & NO NORTHTHROCK et al Sah Cho L 71-64-30-125-30 YEAR 2005 MONTH 3 DAY 3

OPERATOR NORTHTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

RIG MANAGER Alvin Vogt RIG NO 40

PROVINCE N.W.T. CAMP YES NO RIG SAFETY DAYS 48

MORNING TOUR FROM 0 TO 1200

CREW SOC INS. NO NAME HRS YES NO

DRILLER Chad Snyder Miller 10 C.S

DERRICK HAND Andre Habel 10 A.H

DERRICK HAND Sean Breadner 10 S.B

MOTOR HAND Ken Smith 10 K.S

FLOOR HAND Sali Mohammed 10 S.M

FLOOR HAND Tyler Salters 10 T.M.S

Roust about Garrett Harley 10 G.H

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 42

DRIVERS Chad Snyder Miller Andre Habel

DAY TOUR FROM 1200 TO 2400

CREW SOC INS. NO NAME HRS YES NO

DRILLER William Cairns 10 W.C

DERRICK HAND Terry Sanderson 10 T.S

DERRICK HAND Jerry Hayman 10 J.H

MOTOR HAND Ken Lauck 10 K.L

FLOOR HAND William Andrew 10 W.A

FLOOR HAND Tyler Potts 10 T.P

Foreman roust about Steve Pringle 12 S.T

Roust about Peter Andrew 12 P.W

Roust about Joel Doctor 12 J.D

DRILLER Mike Wiebe 8 M.W

DERRICK HAND Ron Hall 8 R.H

DERRICK HAND Nathan Surnak 8 N.S

MOTOR HAND Shawn Imhann 8 S.I

FLOOR HAND Andrew Sewi 8 A.S

Roust about Freddy Clement 8 F.C

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 49

DRIVERS William Cairns Mike Wiebe

[illegible]

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD SURFACE LOCATION L-71-64-30-125-30 UNIQUE ID 1/10 SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alivn Vogt

DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (Using Check List) (3) HOS Signs Posted if Required (4) Well License & Stick Diagrams Posted (5) Flare Lines Staked (6) BOP Drills Performed (7) Visually Inspect BOPs Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (on a regular basis) (9) HOSDC Rig Safety Inspection Checklist (on a regular basis) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Kils Checked

YEAR 2005 MONTH 2 DAY 28 LAST CASING TUBING CA UNER 40 O.D. (mm) 339.7 I.D. (mm) 313.92 MASS (kg/m) 90.78 MAKE Tamsa GRADE K55 NO. OF JOINTS 46 TOTAL LENGTH 647.49 HS TO CSG HEAD 6.17 SET AT (m) 245.5 NO. OF JOINTS 182 TOTAL LENGTH 2536.2 HS TO CSG HEAD 6.17 SET AT (m) 2535 TEMPERATURE 17 DO 17 DC/OP SIZE 171 MASS GRADE 165 DC 171 I.D. 171 T. JCT. 24 TYPE H90 NO. OF JOINTS 24 PUMP TYPE PZ 9 PUMP MANUFACTURER GARDNER DENVER STROKE LENGTH 229 CURRENT CONDITIONS CHANGED WIND DIRECTION 127 WIND SPEED 38.1 LIGHT WIND WEIR ROAD CONDITION 127 ICE 127

SPUD DATE 2005/01/23 TIME 13 15 RIG RELEASE TIME WELL TYPE VERT REENTRY NO OPERATOR'S AFE 240348 KELLY BSHD 6.17 OF FUEL CENTRACTORS JOB NUM YOUR SHEET SERIAL NUM AKTA40_20050228_1B VENDOR SOFTWARE VERSION EDR_3-1_1_HF2_ETS_2.2



PASON

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
GROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CONV MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN C&G & CEMENT	WAIT ON CEMENT	HOPE UP BOP	TEST BOP	DRILLTEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR WORK	SAFETY MEETING	Manifold						
MORN	2.0	1.25		2.0	5.0	0.5													0.5	0.25		0.5					12.00
DAY	11.5				0.25				0.25																		12.00
TOTAL	13.50	1.25		2.00	5.00	0.75			0.25										0.50	0.25		0.50					24.00

SHALE SHAKER (S)	RENTALS / SERVICES	MORNING	DAY
NO TYPE 2 DERRICK	MJ SLC 10306/ACCUM MJ 633556		
SCREENS CHANGED	NEW USED	34	
TOP	KB UNIHEAD FLANGE	5.70	
MIDDLE	CREW VEHICLE		
BOTTOM	FORKLIFT		

DRILLING CREW PAYROLL DATA WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 YEAR 2005 MONTH 2 DAY 28 OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD RIG NO. 40 RIG SAFETY DAYS 48 RIG MANAGER Frank Biggeman RIG NO. 40 PROVINCE N.W.T CAMP YES NO

BIT RECORD MORNING TOUR MUD RECORD METRES DRILLED TIME LOG 1 BIT 171 9.37 SIZE 215.9 TIME 1000 3110 3116 D 0 16 0 030 0.50 6 TRIPS P O H FLOW CHECK @ BANK 1 FILTER SUB 178 1.71 WDC CODE 5 3 7 DENSITY (kg/m3) 1070 030 045 0.25 7 RIG SERVICE FUNC BLIND RAMS 4 SEC S C/O U PIPE RAMS 4 SEC S C/O 1 FLOAT SUB 171 71 MANUFACTURER SMITH FUNNEL VISCOSITY 48 045 100 0.25 21 SAFETY MEETING WCREW,BAKER HUGHES DIR. 1 ROLLER REAMER 210 1.39 TYPE ER7035 FLUID LOSS (cm3) 6 100 130 0.50 20 DIR WORK LAY DOWN VERTITRAK #1 PICK-UP #2. 15 6.75 D.C. 171 138.84 SERIAL NO. MX0851 pH 10 130 600 4.50 8 TRIPS RJ H W/216mm arith bloom FILL PIPE @1144m,2112m BOTTOM 600 630 0.50 5 WASH 3 STANDS TO BOTTOM 630 800 1.50 5 CIRC BOTTOMS UP THROUGH CHOKE MANIFOLD 1 JAR 170 9.21 JETS 19.1 19.1 P.V.T 51.4 800 830 0.50 23 BLOW MANFOLD W/ AIR 830 845 0.25 7 SERVICE RIG AND TOP DRIVE, FUNCTION LOWER PIPE RAMS O/C 5 SECONDS 8 6.75 D.C. 171 18.42 19.1 19.1 10 845 1000 1.25 3 REAM 2M TO BOTTOM AND PATTERN BIT 1000 1200 2.00 2 DRILL ACTUAL AHEAD TO 3116m 1 X.O. 171 50 19.1 19.1 10 1200 1200 2.00 2 DRILL ACTUAL AHEAD TO 3116m 1 H.W.D.P. 127 83.26 DEPTH OUT (m) 3116 DEPTH IN (m) 3110 TOTAL DRILLED (m) 600 TOTAL HRS RUN 2 CUTTING STRUCTURE TI To MDC LOC BRO CAGE ODC REASON PULLED TOTAL RUN m/hr HOLE CONDITION HOLE DRAG 5 TO 7 UP & DOWN TORQUE AT BOTTOM 5200 FILL ON BOTTOM (m) 1.0

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS 030 045 0.25 7 RIG SERVICE FUNC BLIND RAMS 4 SEC S C/O U PIPE RAMS 4 SEC S C/O 045 100 0.25 21 SAFETY MEETING WCREW,BAKER HUGHES DIR. 100 130 0.50 20 DIR WORK LAY DOWN VERTITRAK #1 PICK-UP #2. 130 600 4.50 8 TRIPS RJ H W/216mm arith bloom FILL PIPE @1144m,2112m BOTTOM 600 630 0.50 5 WASH 3 STANDS TO BOTTOM 630 800 1.50 5 CIRC BOTTOMS UP THROUGH CHOKE MANIFOLD 800 830 0.50 23 BLOW MANFOLD W/ AIR 830 845 0.25 7 SERVICE RIG AND TOP DRIVE, FUNCTION LOWER PIPE RAMS O/C 5 SECONDS 845 1000 1.25 3 REAM 2M TO BOTTOM AND PATTERN BIT 1000 1200 2.00 2 DRILL ACTUAL AHEAD TO 3116m CAL=19.15/MEA=20.31/DIFF=+1.16

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Chad Snyder	12		C.S
DERRICK HAND		Andre Habel	12		A.H
DERRICK HAND		Sean Breadner	12		S.B
MOTOR HAND		Ken Smith	12		K.S
FLOOR HAND		Sali Mohammed	12		S.M
FLOOR HAND		Tyler Salters	12		T.M

BIT RECORD DAY TOUR MUD RECORD METRES DRILLED TIME LOG 1 BIT 171 9.37 SIZE 215.9 TIME 1000 1400 2200 3116 3164 D 0 16 1200 1400 2.00 2 DRILL ACTUAL 216mm F/3116-3123m 1 FILTER SUB 178 1.71 WDC CODE 5 3 7 DENSITY (kg/m3) 1060 1055 1045 1400 1415 0.25 7 RIG SERVICE FUNCTION CROWN SAVER C/O ANNULAR 23 SEC 1 FLOAT SUB 171 71 MANUFACTURER SMITH FUNNEL VISCOSITY 48 45 42 1415 2345 9.50 2 DRILL ACTUAL 216mm F/3123m-3164m 1 ROLLER REAMER 210 1.39 TYPE ER7035 FLUID LOSS (cm3) 6 7 7 2345 2400 0.25 10 ACCUM DEVIATION SURVEY 15 6.75 D.C. 171 138.84 SERIAL NO. MX0851 pH 10 62.2 75.1 2400 2400 0.25 10 ACCUM DEVIATION SURVEY 1 JAR 170 9.21 JETS 19.1 19.1 10 62.2 75.1 10 2400 2400 0.25 10 ACCUM DEVIATION SURVEY 2 6.75 D.C. 171 18.42 19.1 19.1 10 62.2 75.1 10 2400 2400 0.25 10 ACCUM DEVIATION SURVEY 1 X.O. 171 50 19.1 19.1 10 62.2 75.1 10 2400 2400 0.25 10 ACCUM DEVIATION SURVEY 1 H.W.D.P. 127 83.26 DEPTH OUT (m) 3154 DEPTH IN (m) 3110 TOTAL DRILLED (m) 44.00 TOTAL HRS RUN 13.5 CUTTING STRUCTURE TI To MDC LOC BRO CAGE ODC REASON PULLED TOTAL RUN m/hr HOLE CONDITION HOLE DRAG 21-up/3-down TORQUE AT BOTTOM 3767 FILL ON BOTTOM (m) 0

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS 1200 1400 2.00 2 DRILL ACTUAL 216mm F/3116-3123m 1400 1415 0.25 7 RIG SERVICE FUNCTION CROWN SAVER C/O ANNULAR 23 SEC 1415 2345 9.50 2 DRILL ACTUAL 216mm F/3123m-3164m 2345 2400 0.25 10 ACCUM DEVIATION SURVEY 2400 2400 0.25 10 ACCUM DEVIATION SURVEY

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		William Cairns	12		W.C
DERRICK HAND		Terry Sanderson	12		T.S
DERRICK HAND		Jerry Hayman	12		J.H
MOTOR HAND		Ken Lauck	12		K.L
FLOOR HAND		William Andrew	12		W.A
FLOOR HAND		Peter Andrew	12		P.W
Forman rust about		Steve Pringle	12		S.T
Roust about		Garett Harley	12		G.H
Roust about		Joel Doctor	12		J.D

LICENCE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

CONTRACTOR

NORTHROCK RESOURCES LTD

AKITA DRILLING LTD

SURFACE LOCATION

UNIQUE ID

L-71-64-30-125-30

11/10

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Kevin Amy

Frank Biggeman

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) HOB Signs Posted if Required

(4) Well Licence & Block Diagrams Posted

(5) Flare Lines Staked

(6) BOP Drills Performed

(7) Visually Inspect BOP-Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (onshore/offshore)

(2) CAODC Rig Safety Inspection Checklist (onshore/offshore)

(3) Must inspect before Raising or Lowering

(4) Crown Saver Checked

(5) Motor Ribs Checked

YEAR

MONTH

DAY

2005

2

27

LAST CASING TUBING OR LINER

Q.D. (mm)

MIN ID. (mm)

MASS (kg/m)

GRADE

NO. OF JOINTS

TOTAL LENGTH

NO. TO CSG HEAD

SET AT (m)

339.7

313.92

90.78

Tariffs

K55

46

647.49

8.17

645

FUEL @ 04.00 HRS

BOILER

NO

21383

MASS

GRADE

MINIMUM ID

T. INT. O.D.

TYPE

THREADED

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

244.5

216.54

69.9

Tariffs

K55

182

2536.2

6.17

2535

DC

171

165

DC

71

171

5" H90

24

PZ 9

GARDNER DENVER

229

TEMPERATURE

COND. CONDITIONS

WIND DIRECTION

Light and SE

ROAD CONDITION

ICE

DC

171

165

DC

71

171

5" H90

24

PZ 9

GARDNER DENVER

229

DP

127

38.1

E 75

102

168

4 1/2 IF

261

PZ 9

GARDNER DENVER

229

DP

127

38.1

X 95

102

168

4 1/2 IF

139

CAODC

PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	NO. TYPE	TYPE	RENTALS / SERVICES	MORNING	DAY
GROUP & TEARDOWN	DRILL ACTUAL	REMAINING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NEPPEL UP B O P	TEST B O P	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRILL WORK	SAFETY MEETING								NO. TYPE	TYPE	RENTALS / SERVICES	MORNING	DAY
MORN		10.5		1.0		0.25									0.25												12.00	175	TOP	KB UNIHEAD FLANGE	5.70	
DAY		5.5		1.0	5.25										0.25												12.00	110	MIDDLE	CREW VEHICLE		
TOTAL		16.00		2.00	5.25	0.25									0.25												24.00	110	BOTTOM	FORKLIFT		

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

1

VERTI TRAK

171

9.37

SIZE

215.9

TIME

200

600

3011

3080

D

0

18.5

0

600

6.00

2

DRILL ACTUAL 216mm F3011m-3042m

1

FILTER SUB

178

1.71

WOC CODE

5

3

7

DENSITY (kg/m3)

1060

1060

0

615

930

3.25

2

ACCUM DEVIATION SURVEY

1

FLOAT SUB

171

71

MANUFACTURER

HUGHES

FUNNEL VISCOSITY

47

47

0

930

945

0.25

7

SERVICE RIG AND TOP DRIVE, FUNCTION LOWER PIPE RAMS O/C 5 SECONDS

1

ROLLER REAMER

210

1.39

TYPE

HX-S30

FLUID LOSS (cm3)

7.0

7.3

0

945

1030

0.75

2

DRILL ACTUAL 216mm F3006-3076m

15

6.75 D C

171

138.64

SERIAL NO.

5040436

pH

9.5

9.5

0

1030

1130

1.00

5

CONDITION MUD & CIRC. UP SAMPLE

1

JAR

179

9.21

JETS

19.1

19.1

0

1130

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

2

6.75 D C

171

18.42

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

1

X.O

171

50

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

1

H.W.D.P

127

83.26

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

1

6.75 D C

171

138.64

SERIAL NO.

5040436

pH

9.5

9.5

0

1030

1130

1.00

5

CONDITION MUD & CIRC. UP SAMPLE

1

JAR

179

9.21

JETS

19.1

19.1

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1130

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

2

6.75 D C

171

18.42

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3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

1

X.O

171

50

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

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H.W.D.P

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9.5

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1130

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CONDITION MUD & CIRC. UP SAMPLE

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9.21

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19.1

19.1

0

1130

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0.50

2

DRILL ACTUAL 216mm F3076-3090m

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6.75 D C

171

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DEPTH IN (m)

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14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

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X.O

171

50

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0

1200

0.50

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0.50

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138.64

SERIAL NO.

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1030

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1130

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DRILL ACTUAL 216mm F3076-3090m

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89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

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X.O

171

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1200

0.50

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DRILL ACTUAL 216mm F3076-3090m

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SERIAL NO.

5040436

pH

9.5

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CONDITION MUD & CIRC. UP SAMPLE

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JAR

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9.21

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89.00

TOTAL HRS RUN

14.25

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1200

0.50

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DRILL ACTUAL 216mm F3076-3090m

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DEPTH IN (m)

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TOTAL HRS RUN

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1200

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DRILL ACTUAL 216mm F3076-3090m

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6.75 D C

171

138.64

SERIAL NO.

5040436

pH

9.5

9.5

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1030

1130

1.00

5

CONDITION MUD & CIRC. UP SAMPLE

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JAR

179

9.21

JETS

19.1

19.1

0

1130

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

2

6.75 D C

171

18.42

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

1

X.O

171

50

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

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H.W.D.P

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0.50

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DRILL ACTUAL 216mm F3076-3090m

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6.75 D C

171

138.64

SERIAL NO.

5040436

pH

9.5

9.5

0

1030

1130

1.00

5

CONDITION MUD & CIRC. UP SAMPLE

1

JAR

179

9.21

JETS

19.1

19.1

0

1130

1200

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DRILL ACTUAL 216mm F3076-3090m

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X.O

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SERIAL NO.

5040436

pH

9.5

9.5

0

1030

1130

1.00

5

CONDITION MUD & CIRC. UP SAMPLE

1

JAR

179

9.21

JETS

19.1

19.1

0

1130

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

2

6.75 D C

171

18.42

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

1

X.O

171

50

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

1

H.W.D.P

127

83.26

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

1

6.75 D C

171

138.64

SERIAL NO.

5040436

pH

9.5

9.5

0

1030

1130

1.00

5

CONDITION MUD & CIRC. UP SAMPLE

1

JAR

179

9.21

JETS

19.1

19.1

0

1130

1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

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18.42

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14.25

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X.O

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2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

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0.50

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DEPTH OUT (m)

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9.21

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6.75 D C

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DEPTH OUT (m)

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14.25

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X.O

171

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DEPTH OUT (m)

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TOTAL HRS RUN

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1200

0.50

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0.50

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138.64

SERIAL NO.

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pH

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DEPTH OUT (m)

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0.50

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SERIAL NO.

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9.5

9.5

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0

1200

0.50

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TOTAL DRILLED (m)

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1200

0.50

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DRILL ACTUAL 216mm F3076-3090m

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H.W.D.P

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1200

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DRILL ACTUAL 216mm F3076-3090m

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JAR

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9.21

JETS

19.1

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1200

0.50

2

DRILL ACTUAL 216mm F3076-3090m

2

6.75 D C

171

18.42

DEPTH OUT (m)

3080

DEPTH IN (m)

2991

TOTAL DRILLED (m)

89.00

TOTAL HRS RUN

14.25

0

Form containing various sections: License No, Well Name, Operator, Surface Location, Signature, Daily Checks, Mud Record, Metres Drilled, Time Log, Drilling Crew Payroll Data, and various tables for well data and crew information.

LICENCE NO. WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Frank Biggeman

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) H2S Signs Posted & Required

(4) Well License & Stock Diagrams Posted

(5) Flare Lines Tested

(6) BOP Daily Performance

(7) Visually Inspect BOP-Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (annually/monthly)

(2) CADC Rig Safety Inspection Checklist (annually/monthly)

(3) Mast Inspection before Raising or Lowering

(4) Crown Sealer Checked

(5) Mast Ribs Checked

YEAR 2005 MONTH 2 DAY 25

LAST CASING TUBING OR LINER

Q.D. (mm) 339.7 313.92 244.5

M.H.D. (mm) 90.78 69.9

MASS (kg/m) 78 9

MAKE Tattiss Tenaris

GRADE K55 K55

NO. OF JOINTS 48 182

TOTAL LENGTH 647.48 2536.2

KB TO CSD HEAD 6.17 6.17

SET AT (m) 645 2535

TEMPERATURE 15

DC/OP SIZE 171 165

DC/OP MASS 171 165

DC/OP GRADE 71 71

DC/OP T.B.T. 171 171

DC/OP TYPE 5" H90 24

DC/OP PUMP TYPE PZ 9

DC/OP PUMP MANUFACTURER GARDNER DENVER

DC/OP STROKE LENGTH 229

DC/OP PUMP NO. 229

DC/OP PUMP SERIAL NO. 229

DC/OP PUMP TYPE PZ 9

DC/OP PUMP MANUFACTURER GARDNER DENVER

DC/OP STROKE LENGTH 229

APUD DATE 2005/01/23 TIME 13 15

RIG RELEASE TIME

WELL TYPE VERT

REENTRY NO

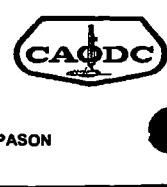
OPERATOR'S AFE 240346

KELLY BSHD 6 17

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM AKTA0_20050225_1B

VENDOR SOFTWARE VERSION EDR_3-1.1_HF2.ETS.2.2



CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
1	RIQUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRUG LINE	DEV SURVEY	WIRELINE LOGS	RUNNING & CEMENT	WAIT ON CEMENT	HOPE UP & O.P.	TEST & O.P.	DRILLSTEM TEST	PUMP BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MEETING	BOPEL	TOPDRIV				
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
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21																											
22																											
23																											
24																											
25																											
26																											
TOTALS																											

SHALE SHAKER (S)	RENTALS / SERVICES	MORNING	DAY
NO. 1 TYPE DESPICK	MJ SLC 18081MJ ACCUM 622964		
NO. 2 TYPE DESPICK	ACCUMULATOR		
NO. 3 TYPE DESPICK	KB - UNID-HEAD FLANGE		
NO. 4 TYPE DESPICK	CREW VEHICLE		
NO. 5 TYPE DESPICK	FORKLIFT		

DRILLING CREW PAYROLL DATA

WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR 2005 MONTH 2 DAY 25

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

RIG MANAGER Frank Biggeman

PROVIDE NLT

CAMP YES NO

RIG SAFETY DAYS 43

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0 0045 0.75 4 MAKE UP CORE BARRELS

0045 145 1.00 8 RUN IN HOLE WITH CORE BARRELS TO 300m KB

145 215 0.50 23 REPAIR TOP DRIVE GRABBER

215 530 3.25 8 TRIPS R/H W/ CORE #1 FILL PIPE @ 1040m, 2009m, BOTTOM

530 800 2.50 5 WASH LAST STAND TO BOTTOM FLOW CHECK

800 845 0.75 4 CIRC. BOTTOMS UP THROUGH CHOKE MANFOLD FUNCTION ANN 21 SEC'S TO C/O

845 1200 3.25 4 FUNCTION H.C.R. 3 SEC'S TO QC BLOW BACK W/ AIR

1200 845 0.75 4 CORING DROP BALL GET REDUCED PUMP RATE 1709 KPA 34 STKS X2

845 1200 3.25 4 CORING

1200

INSPECT DEAD-LINE ANCHOR, BRAKE LINKAGE

REVIEW J.S.A. S ON PICKING UP TOOLS, WORKING W/ TOP DRIVE

BLOW BOILER #1 2.3-2-X EACH

DRILLER SIGNATURE Chad Snyder

SPECIAL EVENT COREING

TIME / DEPTH

SAFETY TOPIC

MIN

MAX

PICKING UP CORE TOOL 126 16247

MORNING TOUR

FROM 0 TO 1200

INJURED

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER Chad Snyder

DERRICK HAND Andre Habel

DERRICK HAND Sean Breadner

MOTOR HAND Ken Smith

FLOOR HAND Sali Mohammed

FLOOR HAND Tyler Salters

William Cairns

Wellsite Co-ordinator

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

DRIVERS

Chad Snyder

Andre Habel

DAY TOUR

FROM 1200 TO 2400

INJURED

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER Brent Williams

DERRICK HAND Terry Sanderson

DERRICK HAND Jerry Hayman

MOTOR HAND Ken Lauck

FLOOR HAND William Andrew

FLOOR HAND Peter Andrew

Foreman /oust about Steve Pringle

Roust about Garrett Harley

Roust about Joel Doctor

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

DRIVERS

Brent Williams

Terry Sanderson

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200 1730 5.50 4 CORE #1 18M

1730 1900 1.50 5 CIRC HOLE PRIOR TO P.O.H.W. CORE #1

1900 1945 0.75 6 TRIPS PUMP FILL / FLOW CHECK @ 2968/BLOW BACK TOP DRIVE

1945 2000 0.25 22 FLOW CHECKS @ 2933m

2000 2400 4.00 6 B.O.P. DRILL W/ CORE #1 SECURE IN 91 SEC S

2400 2400 4.00 6 FUNCTION ANN 21 SEC S TO C/O

2400 2400 4.00 6 TRIPS P.O.H. #1 CORE FLOW CHECKS @ 1502m

2400

INSPECTION DEADLINE CLAMP, BRAKE LINKAGE, BOP VALVES, FLARE & DEGASSER LINES

J.S.A. BLOW STANDOFF W/ AIR, CIRCULATE

BLOW BOILERS 1-2 3X 5 SEC EACH

P.O.H. #1 CORE

PIU CORE BARRELS 133 16247

DAY TOUR

FROM 1200 TO 2400

INJURED

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER Brent Williams

DERRICK HAND Terry Sanderson

DERRICK HAND Jerry Hayman

MOTOR HAND Ken Lauck

FLOOR HAND William Andrew

FLOOR HAND Peter Andrew

Foreman /oust about Steve Pringle

Roust about Garrett Harley

Roust about Joel Doctor

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

DRIVERS

Brent Williams

Terry Sanderson

[illegible]

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Frank Biggeman

DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Licence & Sack Diagram Posted (5) Flow Lines Scaled (6) H2S Data Performed (7) Visually Inspected BOP's - Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (weekly/monthly) (2) CAODC Rig Safety Inspection Checklist (weekly/monthly) (3) Mast Inspection before Raising or Lowering (4) Cover Saver Checked (5) Motor Kils Checked

YEAR 2005 MONTH 2 DAY 23

LAST CASING TURNING OR LINER FUEL @ 04:00 HRS

TEMPERATURE 15 DC/DP 171 165 DC 127 38.1 E 75 102 168 4 1/2 IF 261 PZ 9 GARDNER DENVER 229

CAODC RIG SAFETY INSPECTION CHECKLIST (weekly/monthly)

SPUD DATE 2005/01/23 TIME 13 15

WELL TYPE VERT REGISTRY NO 240346

OPERATOR'S AFE 240346

CONTRACTOR'S JOB NUM 5 17

TOUR SHEET SERIAL NUM AKTA40_20050223_1B

VENDOR SOFTWARE VERSION EDR_3-1-1_HF2 ETS 2.2



PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
NOON																											12.00
EVENING																											12.00
TOTAL																											24.00

DRILLING CREW PAYROLL DATA									
WELL NAME & NO	NORTHROCK et al Sah Cho L 71-64-30-125-30			YEAR	2005		MONTH	2	
OPERATOR	NORTHROCK RESOURCES LTD.			CONTRACTOR	AKITA DRILLING LTD.				
RIG MANAGER	Frank Biggeman			RIG NO.	40				
PROVINCE	N.W.T.			CAMP	☒ YES		☐ NO		
				RIG SAFETY DAYS	41				

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	MORNING TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	VERTI TRAK	171 9.37	SIZE 215	MUD TYPE: POLYMER	WATER BASED ☒ OIL BASED ☐	FROM 2307 TO 2327	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1	FILTER SUB	171 1.71	WOC CODE 5 2 7	DENSITY (kg/m3)	1085 1080	200 215 0.25 7	DRILL ACTUAL F/2907M-2921M
1	FLOAT SUB	178 71	MANUFACTURER HUGHES	FUNNEL VISCOSITY	46 49	215 430 2.25 2	RIG SERVICE GREASE TOP DRIVE FLANG UPPER PIPE 5 SEC C/O
1	3/PT ROLLER REAM	210 1.39	TYPE EP5686	FLUID LOSS (cm3)	7.5 7.5	430 515 0.75 5	DRILL ACTUAL F/2921M-2927
15	8.75 D.C	171 138.84	SERIAL NO. 6032372	pH	10 10	515 1130 6.25 6	CIRC BOTTOMS UP FOR SAMPLE
1	JAR	170 9.21	JETS 19 1 19 1	PVT	72.4 73.8	1130 1200 0.50 8	TRIPS FLOW CHECK @ 2921.2804 BLOW BACK STAND PIPE
2	8.75 D.C	171 18.42	DEPTH OUT (m) 2927	MUD MATERIALS ADDED			FLOW CHECK @ 1788m 288m
1	X.O	50	DEPTH IN (m) 2933	PRODUCT	AMOUNT UNIT		TRIPS RJ H W/215mm TRI-CONE
9	H.W.D.P	127 83.26	DEPTH IN (m) 2927	KELZAN XCD	3 SX		FUNCTION BLIND RAMS 4 SEC S C/O OUT OF HOLE
			TOTAL DRILLED (m) 234.00	LIGNITE	1 SX		FUNCTION UPPER PIPE RAMS 4 SEC S TO C/O
			TOTAL HRS RUN 43	DRISPAK	1 SX		CAL*18.25, MEAN*18.57 DIFF*+1.68
			CUTTING STRUCTURE	CAUSTIC SODA	1 SX		
			T1 T2 MDC LOC BRO GAGE CDC REASON PULLED TOTAL RUN HRS	PRE MIX TO MAIN	18 M3		
			BT A O WT PR S4				
14	DRILL PIPE STANDS	2857 19	HOLE CONDITION	BOILERS			NOTES INSP DEAD LINE ANCHOR, BRAKE LINKAGE TEST CROWN SAVER
	DRILL PIPE SINGLES		HOLE DRAG 5 UP 7 DOWN	HRS RUN 12	HRS RUN 12		
	KELLY DOWN	23 9	TORQUE AT BOTTOM	BOILER PH 10.5	BOILER PH 11		JSA S CATCHING SAMPLES, RIG SERVICE
	TOTAL	2927 00	FILL ON BOTTOM (m)	STACK TEMP 165	STACK TEMP 170		BLOW BOILER DOWN #1, 2, 3 3X EACH FOR 5 SEC
	WT OF D.C.	25					DRILLER SIGNATURE Chad Snyder
	WT OF STRING	126					SPECIAL EVENT TIME / DEPTH

CREW	SOC DES. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MOW
DERRICK HAND		Ron Hall	12		R.H.
DERRICK HAND		Nathan Surinak	12		N.S.
MOTOR HAND DR		Brent Williams	12		B.W.
FLOOR HAND		James McPherson	12		J.M.
FLOOR HAND		Andrew Sewl	12		A.S.

NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	DAY TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	VERTI TRAK	171 9.37	SIZE 215	MUD TYPE: POLYMER	WATER BASED ☒ OIL BASED ☐	FROM 2327 TO 2331	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1	FILTER SUB	171 1.71	WOC CODE 5 2 7	DENSITY (kg/m3)	1075	1200 1345 1.75 6	TRIPS RJ H W/215mm TRI-CONE #5
1	FLOAT SUB	178 71	MANUFACTURER HUGHES	FUNNEL VISCOSITY	47	1345 1400 0.25 21	FILL PIPE @ 1030m MONITOR WELL
1	3/PT ROLLER REAM	210 1.39	TYPE EP-5686	FLUID LOSS (cm3)	6	1400 1815 4.25 22	SAFETY MEETING W/CREW VARCO TOP DRIVE HAND
15	8.75 D.C	171 138.84	SERIAL NO. 6032374	pH	10.5	1815	CHANGE TORQUE TUBE HANGING CABLE AND BACK-UP SAFETY LINE.
1	JAR	170 9.21	JETS 19 1 19 1	PVT	59	1815 1830 0.25 7	CHANGE OUT SAVER SUB
2	8.75 D.C	171 18.42	DEPTH OUT (m) 2931	MUD MATERIALS ADDED		1830 2100 2.50 8	RIG SERVICE TOP DRIVE SERVICE, FUNCTION UPPER PIPE RAMS 4 SEC S TO C/O
1	X.O	50	DEPTH IN (m) 2927	PRODUCT	AMOUNT UNIT	2100 2230 1.50 5	TRIPS RJ H W/215mm FILL PIPE @ 2000m BOTTOM
9	H.W.D.P	127 83.26	DEPTH IN (m) 2927	KELZAN XCD	3 SX	2230 2400 1.50 2	WASH LAST 3 STD'S TO BOTTOM 2927 & CIRC BOTTOMS UP
			TOTAL DRILLED (m) 4.00	LIGNITE	1 SX		DRILL ACTUAL 215mm HOLE F/2927m-2931
			TOTAL HRS RUN 15	DRISPAK	1 SX		
			CUTTING STRUCTURE	CAUSTIC SODA	1 SX		
			T1 T2 MDC LOC BRO GAGE CDC REASON PULLED TOTAL RUN HRS	PRE MIX TO MAIN	18 M3		
			BT A O WT PR S4				
14	DRILL PIPE STANDS	2857 19	HOLE CONDITION	BOILERS			NOTES VISUALLY INSPECT DEAD-LINE ANCHOR, BRAKES, LINKAGE
	DRILL PIPE SINGLES		HOLE DRAG 7 UP 8 DOWN	HRS RUN 12	HRS RUN 12		CHECK ALL B.O.P. VALVES
	KELLY DOWN	19 90	TORQUE AT BOTTOM	BOILER PH 11	BOILER PH 11		BLOW OUT MANIFOLD WAIR
	TOTAL	2931 00	FILL ON BOTTOM (m)	STACK TEMP 180	STACK TEMP 200		REVIEW J.S.A S ON TRIPPING, BLOW BACK KELLY WORK ON TOP DRIVE
	WT OF D.C.	25					BLEW BOILERS #1, 2, 3 2-X EACH
	WT OF STRING	126					DRILLER SIGNATURE Mike Wiebe
							SPECIAL EVENT TIME / DEPTH

RATE SCHEDULE		X	REGULAR		REPAIR		INVERT	
CREW SAFETY DAYS			DRIVERS					
34			MGo Webe					
			Brent Williams					
DAY TOUR		FROM 1200		TO 2400		INJURIES		
CREW	SOC DES. NO	NAME		HRS		YES	NO	
DRILLER		Chad Snyder		12			CS	
DERRICK HAND		Andre Habel		12			AH	
DERRICK HAND		Sean Breadner		12			SB	
MOTOR HAND		Ken Smith		12			KS	
FLOOR HAND		Sali Mohammed		12			SM	
FLOOR HAND		Tyler Salters		12			TMS	
Foreman roust about		Steve Pringle		12			ST	
Roust about		Freddy Clement		12			FC	
Roust about		Garrett Harley		12			GH	
Well Site Coordinator		William Cairns		12			WC	

[illegible]

LICENCE NO
 WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
 OPERATOR
NORTHROCK RESOURCES LTD
 SURFACE LOCATION
L-71-64-30-125-30
 SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy

DAILY CHECKS
 (1) Daily Walk Around Inspection
 (2) Detailed Inspection Weekly (Using Check List)
 (3) HSE Sign Poster / Request
 (4) Well License & Block Diagram Poster
 (5) Flow Lines Shaded
 (6) BOP Data Performance
 (7) Visually Inspect BOP-Flow Lines & Degasser Lines
 (1) Rig Site Health & Safety Meeting (onshore/offshore)
 (2) CADC Rig Safety Inspection Checklist (onshore/offshore)
 (3) Mast Inspection before Raising or Lowering
 (4) Crown Diver Checked
 (5) Master Valve Checked

YEAR 2005 MONTH 2 DAY 21
 LAST GASING TUBING OR LINER
 O.D. (mm) 339.7 313.92 90.78
 I.D. (mm) 244.5 218.54 69.9
 MASS (kg/m) 24003
 MAKE
 GRADE
 NO. OF JOINTS 46 182 2536.2
 TOTAL LENGTH 647.49 6.17 2535
 NO. TO CSD HEAD
 SET AT (m)
 TEMPERATURE 13
 CURRENT CONDITIONS
 WIND DIRECTION SOUTH
 ROAD CONDITION
 SHALE SHAKER (S)
 RENTALS / SERVICES
 MORNING DAY

BUD DATE 2005/01/23 TIME 13:15
 NO RELEASE
 WELL TYPE VERT REENTRY NO
 OPERATOR'S A/E 240346
 KELLY BSH 6.17 OF FUEL
 CONTRACTOR'S JOB NAME
 TOUR SHEET SERIAL NUM AKTA40_20050221_1C
 VENDOR SOFTWARE VERSION EDR_3.1.1_HF2 ETS 2.2



CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
RIOP & TEARDOWN																											
DRILL ACTUAL		11.0																									12.00
REAMING																											175
CORING																											110
COND MUD & CIRC																											24.00
TRIPS																											110
RIG SERVICE																											110
REPAIR RIG																											110
CUT OFF DRILL LINE																											110
DEV SURVEY																											110
WIRELINE LOGS																											110
RUN CSD & CEMENT																											110
WAIT ON CEMENT																											110
HOPE UP B.O.P																											110
TEST B.O.P																											110
DRILLSTEM TEST																											110
PLUG BACK																											110
BOULEZIE CEMENT																											110
FISHING																											110
DR. WORK																											110
SAFETY MEETING																											110
Line/Gas																											110

DRILLING CREW PAYROLL DATA									
WELL NAME & NO	NORTHROCK et al Sah Cho L-71-64-30-125-30			YEAR	2005	MONTH	2	DAY	21
OPERATOR	NORTHROCK RESOURCES LTD			CONTRACTOR	AKTA DRILLING LTD.				
RIG MANAGER	Frank Biggeman			RIG NO.	40				
PROVINCE	NWT			CAMP	☒ YES ☐ NO			RIG SAFETY DAYS	39

NO. 1
 DRILLING ASSEMBLY (AT END OF TOUR)
 LENGTH 30
 BIT RECORD
 BIT NO. 4
 SIZE 216
 MDC CODE 5 2 7
 MANUFACTURER HUGHES
 TYPE EP5686
 SERIAL NO. 6032372
 JETS 63 X
 PVT 77.5
 MUD MATERIALS ADDED
 POLYMER
 WATER BASED ☒ OIL BASED ☐
 FROM 200 TO 2693
 TO 2694
 D-R-C D 0 15
 RPM 30 17
 WOB 100 1200
 CLASPED TIME 11.00 2
 CODE 5
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 CIRC BOTTOMS UP
 DRILL ACTUAL 216mm F/2693m-2743m
 TIME LOG
 FROM 100 TO 1200
 CLASPED TIME 11.00 2
 CODE 5
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 CIRC BOTTOMS UP
 DRILL ACTUAL 216mm F/2693m-2743m
 MUD RECORD
 TIME 200 600 1000 2693 2694
 DENSITY (kg/m3) 1125 1125 1110 2694 2749
 FUNNEL VISCOSITY 62 58 54
 FLUID LOSS (cm3) 8 8 5.5
 PH 11.5 11.5 10.5
 PVT 77.5 80.3 86.2
 SOLIDS CONTROL
 CENTRIFUGE
 HOURS RUN 0
 INTAKE DENSITY (kg/m3) 0
 OVER FLOW DENSITY 0
 UNDER FLOW DENSITY 0
 REDUCED PUMP SPEED
 DEVIATION SURVEYS
 DEPTH (m) 2681
 DEVIATION 2.5
 DIRECTION
 BOILERS
 HRS RUN 12
 HRS RUN 12
 BOILER PH 11
 BOILER PH 11.5
 STACK TEMP 170
 STACK TEMP 165
 DRILLER SIGNATURE
 Chad Snyder Miller
 SPECIAL EVENT
 TIME / DEPTH
 SAFETY TORC
 MEN
 WASH RIG
 128 17930

MORNING TOUR			FROM	0	TO	1200	HOURS	
CREW	SOC INS. NO.	NAME	HRS	YES	NO			
DRILLER		Mike Wiebe	12			MDW		
DERRICK HAND		Ron Hall	12			RH		
DERRICK HAND		Nathan Surnak	12			NS		
MOTOR HAND		Brent Williams	12			BW		
FLOOR HAND		James McPherson	12			JM		
FLOOR HAND		Andrew Sewn	12			AS		

NO. 2
 DRILLING ASSEMBLY (AT END OF TOUR)
 LENGTH 30
 BIT RECORD
 BIT NO. 4
 SIZE 216
 MDC CODE 5 2 7
 MANUFACTURER HUGHES
 TYPE EP5686
 SERIAL NO. 6032372
 JETS 63 X
 PVT 77.6
 MUD MATERIALS ADDED
 POLYMER
 WATER BASED ☒ OIL BASED ☐
 FROM 2749 TO 2759
 TO 2766
 D-R-C D 0 22.0
 RPM 30 17.5
 WOB 1315 1330
 CLASPED TIME 0.25 7
 CODE 7
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 RIG SERVICE TOP DRIVE SERVICE
 FUNCTION LOWER PIPE RAMS 4 SEC S TO CO
 DRILL ACTUAL 216mm F/2749m-2788m
 CHANGE LINER GASKET ON #2 PUMP MUDTANK SIDE
 DRILL ACTUAL F/2788m-2797m
 MUD RECORD
 TIME 1400 1600 2400 2749 2759
 DENSITY (kg/m3) 1115 1115 1085 2759 2766
 FUNNEL VISCOSITY 53 53 50 2766 2797
 FLUID LOSS (cm3) 5.5 5.5 8.5
 PH 10.5 10 10
 PVT 77.6 68.8 66.2
 SOLIDS CONTROL
 CENTRIFUGE
 HOURS RUN 140
 INTAKE DENSITY (kg/m3) 1115
 OVER FLOW DENSITY 0
 UNDER FLOW DENSITY 0
 REDUCED PUMP SPEED
 DEVIATION SURVEYS
 DEPTH (m) 2740
 DEVIATION 67
 DIRECTION
 BOILERS
 HRS RUN 12
 HRS RUN 12
 BOILER PH 11
 BOILER PH 11
 STACK TEMP 165
 STACK TEMP 160
 DRILLER SIGNATURE
 Mike Wiebe
 SPECIAL EVENT
 TIME / DEPTH
 SAFETY TORC
 MEN
 WASH RIG
 124 15749

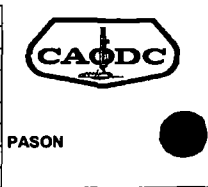
DAY TOUR			FROM	1200	TO	2400	DAILY USE	
CREW	SOC INS. NO	NAME	HRS		YES	NO		
DRILLER		Chad Snyder Miller	12			CS		
DERRICK HAND		Andre Habel	12			AH		
DERRICK HAND		Sean Breadner	12			SB		
MOTOR HAND		Ken Smith	12			KS		
FLOOR HAND		Sali Mohammed	12			SM		
FLOOR HAND		Tyler Salters	12			TMS		
Foreman roust about		Steve Pnngle	12			ST		
Roust about		Freddy Clement	12			FC		
Roust about		Garett Harley	12			GH		
WELL SITE COORDINATOR		Garry Leglehn	12					

LICENCE NO
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
OPERATOR
NORTHROCK RESOURCES LTD
SURFACE LOCATION
L-71-64-30-125-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy

CONTRACTOR
AKITA DRILLING LTD
UNIQUE ID
1/10
SIGNATURE OF CONTRACTOR'S RIG MANAGER
Frank Biggeman

DAILY CHECKS
(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (Using Check List)
(3) H2S Signs Posted if Required
(4) Well Licence & Stick Diagrams Posted
(5) Flow Lines Checked
(6) BOP Drills Performed
(7) Visually Inspect BOPs - Flow Lines & Degasser Lines
(1) Rig Site Health & Safety Meeting (monthly/weekly)
(2) CAODC Rig Safety Inspection Checklist (monthly/weekly)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Gels Checked
YEAR 2005 MONTH 2 DAY 20
RIG NO. 40
FUEL @ 01 00 HRS
21695
TEMPERATURE 20
CURRENT CONDITIONS CLEAR
WIND DIRECTION CALM
ROAD CONDITION ICE
LAST CASING TURNING OR LINER
O.D. (mm) 339 7
I.D. (mm) 313 82
MASS (kg/m3) 90.78
TARTER
K55 48 647 49 8 17 645
K55 182 2536.2 8 17 2535
MAKE
GRADE
NO. OF JOINTS
TOTAL LENGTH
NO. TO CSO HEAD
SET AT (m)
SHALE SHAKER (S)
NO 2
TYPE DEBRIS
MEGAJOULES
MORNING 2011
DAY 606893
NO 175
TOP
175
TOP
KB UNIHED FLANGE
5 70
NO 110
MIDDLE
110
MIDDLE
NO 110
BOTTOM
110
BOTTOM

SPUD DATE 2005/01/23
TIME 13 15
NO RELEASE
WELL TYPE VERT
RE-ENTRY NO
OPERATOR'S AFE 240346
KELLY BUSH 8.17
OF FUEL
CONTRACTOR'S JOB NUM
TOUR SHEET SERIAL NUM AKTA40_20050220_1B
VENDOR SOFTWARE VERSION EDR_3-1_1_HF2 ETS 2.2



CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER (S)		RENTALS / SERVICES		MORNING	DAY	
	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CMC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSO & CEMENT	WAIT ON CEMENT	APPLE UP BOP	TEST BOP	DRILLSTEM TEST	PLUG BACK	BOULEZEE CEMENT	FISHING	DR. WORK	SAFETY MEETING													
						5.25										2.75										4.0		12.00	NO. 2 DEBRICK	TYPE DEBRICK	MEGAJOULES	2011	606893	
MORN																																		
DAY					0.5	7.75			0.75							2.0					0.75	0.25												
TOTAL					0.50	13.00			0.75							4.75					0.75	0.25				4.00		24.00	175 TOP	175 TOP	ACCUMULATOR	34		

NO. DRILLING ASSEMBLY (AT END OF TOUR)
LENGTH
BIT NO. 3
SIZE 215
WOC CODE
MANUFACTURER HUGHES
TYPE HCM 4041
SERIAL NO. 7002072
JETS 6 X
12.7
DEPTH CUT (m) 2693
DEPTH IN (m) 2538
TOTAL DRILLED (m) 155.00
TOTAL HRS RUN 15
CUTTING STRUCTURE
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)
MUD RECORD
MUD TYPE POLYMER
WATER BASED [X] OIL BASED
CENTRIFUGE
CIRCULATION PRESSURE
PUMP NO. 1
PUMP NO. 2
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
FROM 0 TO 400 ELAPSED TIME 4 00 CODE 25
400 445 0 75 6
445 730 2 75 18
730 1200 4 50 6
TRIPS p.o.h flow check @2213
pop test tool to reverse circ reverse circ
TRIPS p.o.h flow check @1444m.218m.
NOTES
insp dead line anchor brake linkage test crown saver
jss sp.o.h
blew boiler down 3x each
DRILLER SIGNATURE
Chad Snyder Miller
TIME / DEPTH

DRILLING CREW PAYROLL DATA
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
YEAR 2005 MONTH 2 DAY 20
OPERATOR NORTHROCK RESOURCES LTD. CONTRACTOR AKITA DRILLING LTD.
RIG MANAGER Frank Biggeman RIG NO. 40
PROVINCE NLW T CAMP [X] YES [] NO RIG SAFETY DAYS 38

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MDW
DERRICK HAND		Ron Hall	12		R.H
DERRICK HAND		Nathan Sunnak	12		N.S
MOTOR HAND		Brent Williams	12		BW
FLOOR HAND		James McPherson	12		J.M
FLOOR HAND		Andrew Sewi	12		A.S
DRILLER		Chad Snyder Miller	12		C.S
DERRICK HAND		Andre Habel	12		A.H
DERRICK HAND		Sean Breadner	12		S.B
MOTOR HAND		Ken Smith	12		K.S
FLOOR HAND		Sali Mohammed	12		S.M
FLOOR HAND		Tyler Salters	12		T.MS
Foreman roust about		Steve Pringle	12		ST
Roust about		Freddy Clement	12		F.C
Roust about		Garrett Harley	8		GH
WELL SITE COORDINATOR		Garry Legiehn	12		GL

NO. DRILLING ASSEMBLY (AT END OF TOUR)
LENGTH
BIT NO. 4
SIZE 215
WOC CODE 5 2 7
MANUFACTURER HUGHES
TYPE EP5686
SERIAL NO. 6032372
JETS 63 X
19 1
DEPTH CUT (m) 2693
DEPTH IN (m) 2693
TOTAL DRILLED (m)
TOTAL HRS RUN
CUTTING STRUCTURE
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m) 2
MUD RECORD
MUD TYPE POLYMER
WATER BASED [X] OIL BASED
CENTRIFUGE
CIRCULATION PRESSURE
PUMP NO. 1
PUMP NO. 2
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
FROM 1200 TO 1330 ELAPSED TIME 1 50 CODE 6
1330 1530 2 00 18
1530 1545 0 25 21
1545 1630 0 75 20
1630 1815 1 75 6
1815 1900 0 75 9
1900 2330 4 50 6
2330 2400 0 50 5
TRIPS P O H FLO CHECK ON BANK. FUNCTION BUND RAMS AND UPPER PIPE 4 SEC O/C
RECOVER RECORDERS BREAK DOWN AND LOAD OUT TEST TOOLS
SAFETY MEETING WITH CREW PRIOR TO PICKING UP TOOLS
DRL WORK MAKE UP BHA
TRIPS RLH H TEST TOOL @280m
SLIP CUT OFF DRILL LINE (21m)
TRIPS RLH FILL PIPE @700m,1400m,2100m bottom
CONDITION MUD & CIRC WASH TO BOTTOM
CAL=18.64 ME=14 03 DIFF=2.61
NOTES
SLIP-CUT 21m DRILL LINE INSPECT BRAKES LINKAGE
CUT @ 13870 MEGAJOULES TOTAL 604862
REVIEW J.S. 9 ON SLIP CUT-LINE PICK-UP DRILL COLLARS
PICK UP DR TOOLS
BLEW BOILERS #1,2,3 2-X EACH
DRILLER SIGNATURE
Mike Wiebe
TIME / DEPTH

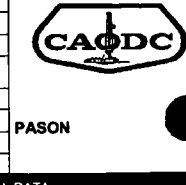
CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Chad Snyder Miller	12		C.S
DERRICK HAND		Andre Habel	12		A.H
DERRICK HAND		Sean Breadner	12		S.B
MOTOR HAND		Ken Smith	12		K.S
FLOOR HAND		Sali Mohammed	12		S.M
FLOOR HAND		Tyler Salters	12		T.MS
Foreman roust about		Steve Pringle	12		ST
Roust about		Freddy Clement	12		F.C
Roust about		Garrett Harley	8		GH
WELL SITE COORDINATOR		Garry Legiehn	12		GL

LICENCE NO
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
OPERATOR
NORTHROCK RESOURCES LTD
CONTRACTOR
AKITA DRILLING LTD
SURFACE LOCATION
L-71-64-30-125-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy
SIGNATURE OF CONTRACTOR'S RIG MANAGER
Frank Biggeman

DAILY CHECKS
(1) Daily Walk Around Inspection
(2) Daily Inspection - Weekly (Using Check List)
(3) H2S Signs Posted (if Required)
(4) Well License & Block Diagram Posted
(5) Flare Lines Staked
(6) BOP Daily Performance
(7) Visually Inspect BOP's Flare Lines & Degreaser Lines
(1) Rig Site Health & Safety Meeting (one/mo/week)
(2) CAODC Rig Safety Inspection Checklist (one/mo/week)
(3) Mast Inspection before Raising or Lowering
(4) Crown Block Checked
(5) Motor Vibe Checked

YEAR 2005 MONTH 2 DAY 19
LAST CASING TUBING OR LAMER
FUEL @ 08:00 HRS
TEMPERATURE
CURRENT CONDITIONS
WIND DIRECTION
ROAD CONDITION
ICE
C.D. (mm)
M.V.D. (mm)
M.A.S. (kg/m)
MAKE
GRADE
NO. OF JOINTS
TOTAL LENGTH
K.B. TO C.S.O. HEAD
BET AT (m)
DC/OP SIZE
MASS
GRADE
MINIMUM I.D.
T. JCT. O.D.
TYPE
NO. OF JOINTS
PUMP TYPE
PUMP MANUFACTURER
STROKE LENGTH
DC 171 165 DC 71 171 5" H90 24 PZ 9 GARDNER DENVER 229
DP 127 38.1 E 75 102 168 4 1/2 IF 261 PZ 9 GARDNER DENVER 229
OP 127 38.1 X 95 102 168 4 1/2 IF 139 F 800 EMSCO 229

SPUD DATE 2005/01/23 TIME 13:15
RIG RELEASE
WELL TYPE VERT
OPERATORS AFE 240346
KELLY BSHS 8 17 OF FUEL
CONTRACTORS JOB NAME
YOUR SHEET SERIAL NUM AKTA40_20050219_1B
VEHICLE SOFTWARE VERSION EDR 3-1.1 HF2 ETS 2.2



CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
	ROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	OUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN C&G & CEMENT	WAIT ON CEMENT	WIPPLE UP B O P	TEST B O P	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MEETING						
MORN						7.5	0.25																			4.25	12.00
DAY						2.0										7.0				1.25					1.75		12.00
TOTAL						9.50	0.25									7.00				1.25					1.75	4.25	24.00

SHALE SHAKER (S)
NO. 1 TYPE DERRICK
NO. 2 TYPE DERRICK
MEGAJOULES
ACCUMULATOR
KB UNHEAD FLANGE
MORNING 11505
DAY 602689

DRILLING CREW PAYROLL DATA
WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30
YEAR 2005 MONTH 2 DAY 19
OPERATOR NORTHROCK RESOURCES LTD. CONTRACTOR AKITA DRILLING LTD.
RIG MANAGER Frank Biggeman RIG NO. 40
PROVIDE N.W.T. CAMP YES NO RIG SAFETY DAYS 37

NO. 1 DRILLING ASSEMBLY (AT END OF TOUR)
LENGTH 30
BIT NO. 3
MUD TYPE: polymer WATER BASED X OIL BASED
TIME 1000
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH
PVT
MUD MATERIALS ADDED
SOLIDS CONTROL
CENTRIFUGE
CIRCULATION PRESSURE
PUMP NO. 1
PUMP NO. 2
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
BOILERS
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)
KELLY DOWN 7.03
TOTAL 2847.00
WT OF D.C. 20
WT OF STRING 110

TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
TRIPS rth strap in ill pipe w/water every 2 ill 25 stands
repair varco top drive torque tube hanging line
RIG SERVICE FUNCTION TOP PIPE RAMS 3 SEC S TO C/O
RE-TORQUE ALL BOLTS ON TUBE
TRIPS RJ H F/D S.T
trip dead line anchor/break line/gastest crown saver
Joe a pick up d.s.t. tools/J.H.
blow boiler down 3x
DRILLER SIGNATURE
Chad Snyder
SPECIAL EVENT
TIME / DEPTH
SAFETY TOPIC
MISC
MAP
pick up tools
14735

MORNING TOUR
CREW SOC INS. NO. NAME HRS YES NO
DRILLER Mike Wiebe 12 MDW
DERRICK HAND Ron Hall 12 RH
DERRICK HAND Nathan Surnak 12 NS
MOTOR HAND Brent Williams 12 BW
FLOOR HAND James McPherson 12 JM
FLOOR HAND Andrew Sewi 12 AS
RATE SCHEDULE X REGULAR REPAIR INVERT
CREW SAFETY DAYS
37
DAY TOUR FROM 1200 TO 2400
CREW SOC INS. NO. NAME HRS YES NO
DRILLER Chad Snyder 12 CS
DERRICK HAND Andre Habel 12 AH
DERRICK HAND Sean Breadner 12 SB
MOTOR HAND Ken Smith 12 KS
FLOOR HAND Sali Mohammed 12 SM
FLOOR HAND Tyler Salters 12 TMS
Foreman roust about Steve Pringle 12 ST
Roust about Freddy Clement 12 FC
WELL SITE COORDINATOR Garry Legiehn 12 GL
RATE SCHEDULE X REGULAR REPAIR INVERT
CREW SAFETY DAYS
37
DRIVERS
Chad Snyder
Steve Pringle

NO. 2 DRILLING ASSEMBLY (AT END OF TOUR)
LENGTH 30
BIT NO. 3
MUD TYPE: polymer WATER BASED X OIL BASED
TIME 1700
DENSITY (kg/m3)
FUNNEL VISCOSITY
FLUID LOSS (cm3)
pH
PVT
MUD MATERIALS ADDED
SOLIDS CONTROL
CENTRIFUGE
CIRCULATION PRESSURE
PUMP NO. 1
PUMP NO. 2
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
BOILERS
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)
KELLY DOWN 7.03
TOTAL 2847.00
WT OF D.C. 20
WT OF STRING 110

TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
TRIPS RJ H F/D S.T
SAFETY MEETING W/CREW/BAKER D.S.T HAND
CHANGE OUT BAILS ON TOP DRIVE, MAKE UP DST TOOLS AND TEST
SAFETY MEETING
RIG OUT TESTER AND CHANGE OT BAILS & ELEVATORS
FLOW CHECK @2581 FILL HOLE, POH 5 STANDS, FLOW CHECK @2527
THAW STAND PIPE AND KELLY HOSE
INSPECT DEAD-LINE ANCHOR/D.S.T LINE
REVIEW J.S.A S ON D.S.T TRIPPING WORK W/TEAM/PICK UP TOOLS
BLEW BOILER #1,2,3 2-X EACH
DRILLER SIGNATURE
Mike Wiebe
SPECIAL EVENT
TIME / DEPTH
SAFETY TOPIC
MISC
MAP
D.S.T
95
14735

DAY TOUR FROM 1200 TO 2400
CREW SOC INS. NO. NAME HRS YES NO
DRILLER Chad Snyder 12 CS
DERRICK HAND Andre Habel 12 AH
DERRICK HAND Sean Breadner 12 SB
MOTOR HAND Ken Smith 12 KS
FLOOR HAND Sali Mohammed 12 SM
FLOOR HAND Tyler Salters 12 TMS
Foreman roust about Steve Pringle 12 ST
Roust about Freddy Clement 12 FC
WELL SITE COORDINATOR Garry Legiehn 12 GL
RATE SCHEDULE X REGULAR REPAIR INVERT
CREW SAFETY DAYS
37
DRIVERS
Chad Snyder
Steve Pringle

Well Name & No: NORTHROCK et al Sah Cho L-71-64-30-125-30
Operator: NORTHROCK RESOURCES LTD
Contractor: AKITA DRILLING LTD
Daily Checks: (1) Daily Walk Around Inspection, (2) Drilling Inspection - Weekly (Using Check List), (3) H2S Signs Posted if Required, (4) Well Licence & Block Diagrams Posted, (5) Flare Lines Stated, (6) BOP Choke Performance, (7) Visually Inspect BOPs Flare Lines & Degasser Lines, (8) Casing Head Pressure Checked (if applicable), (9) Mud Level Checked, (10) Crown Block Checked, (11) Motor Vibe Checked

Table with 26 columns: 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. Rows include MORN, DAY, and TOTAL data for various drilling parameters.

BIT RECORD, MORNING TOUR, MUD RECORD, METRES DRILLED, TIME LOG. Includes detailed logs for bit runs, mud properties, solids control, and drilling operations with various sub-sections and data entry fields.

BIT RECORD, DAY TOUR, MUD RECORD, METRES DRILLED, TIME LOG. Continuation of the drilling log with detailed records for the day tour, mud properties, and drilling metrics.

SPUD DATE: 2005/01/23, TIME: 13:15. Includes release information, well type, and operator details.

Table with 4 columns: WELL NAME & NO, YEAR, MONTH, DAY. Rows for NORTHROCK et al Sah Cho L-71-64-30-125-30.

Table with 5 columns: CREW, SOC INS. NO, NAME, HRS, YES, NO. Lists crew members and their hours for the morning tour.

RATE SCHEDULE, CREW SAFETY DAYS. Includes scheduling and safety information for the crew.

Table with 5 columns: CREW, SOC INS. NO, NAME, HRS, YES, NO. Lists crew members and their hours for the day tour.

LICENCE NO WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR
NORTHROCK RESOURCES LTD

SURFACE LOCATION
L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy

CONTRACTOR NAME
AKITA DRILLING LTD

UNIQUE ID
1/10

SIGNATURE OF CONTRACTOR'S RIG MANAGER
Allvin Vogt

DAILY CHECKS

1) Daily Wellhead Inspection

2) Daily Wellhead Inspection (Using Check List)

3) Wellhead Inspection (Using Check List)

4) Wellhead Inspection (Using Check List)

5) Wellhead Inspection (Using Check List)

6) Wellhead Inspection (Using Check List)

7) Wellhead Inspection (Using Check List)

8) Wellhead Inspection (Using Check List)

9) Wellhead Inspection (Using Check List)

10) Wellhead Inspection (Using Check List)

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69) Wellhead Inspection (Using Check List)

70) Wellhead Inspection (Using Check List)

71) Wellhead Inspection (Using Check List)

72) Wellhead Inspection (Using Check List)

73) Wellhead Inspection (Using Check List)

74) Wellhead Inspection (Using Check List)

75) Wellhead Inspection (Using Check List)

76) Wellhead Inspection (Using Check List)

77) Wellhead Inspection (Using Check List)

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79) Wellhead Inspection (Using Check List)

80) Wellhead Inspection (Using Check List)

81) Wellhead Inspection (Using Check List)

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89) Wellhead Inspection (Using Check List)

90) Wellhead Inspection (Using Check List)

91) Wellhead Inspection (Using Check List)

92) Wellhead Inspection (Using Check List)

93) Wellhead Inspection (Using Check List)

94) Wellhead Inspection (Using Check List)

95) Wellhead Inspection (Using Check List)

96) Wellhead Inspection (Using Check List)

97) Wellhead Inspection (Using Check List)

98) Wellhead Inspection (Using Check List)

99) Wellhead Inspection (Using Check List)

100) Wellhead Inspection (Using Check List)

CAODC

PASON DATAHUB

SPUD DATE 2005/01/23 TIME 13 15

WELL TYPE VERT

OPERATOR'S AFE 240346

KELLY BSHG 6.17

CONTRACTOR'S JOB NAME AKITA40_20050217_18

YOUR SHEET SERIAL NUM AKTA40_20050217_18

VENDOR SOFTWARE VERSION EDR 3.1.1 HF2 ETS 2.2

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALC SHAKE(S)				RENTALS / SERVICES		MORN	DAY	EVE
	GROUP A TEARDOWN	DRILL ACTUAL	REMAINING	CORROD	CONO MUD & CONC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WYELINE LOGS	RUN CSD & CEMENT	WAIT ON CEMENT	NUPPLE UP B O P	TEST B O P	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRL WORK	SAFETY MEETING							NO	TYPE	TYPE						
MORN					2.75	1.25		2.5														0.5	1.0				8.00	175	TOP	175	TOP	MEGAJOULES	6649	507814		
DAY																							8.0				8.00	175	TOP	175	TOP	ACCUMULATOR	364			
EVE															4.5												8.00	110	MIDDLE	110	MIDDLE	KB UNIHEAD FLANGE	5.70			
TOTAL					2.75	1.25		2.50							4.50							0.50	12.50				24.00	110	BOTTOM	110	BOTTOM					

NO 1 BIT SUB 1.02 SIZE 215 TIME 2200 200 600

1 8.75 D.C 9.34 IADC CODE 1120 1130 1125

1 STAB 1.34 IADC CODE 54 55 53

1 8.25" D.C 73.74 MANUFACTURER HUGHES

1 JAR 9.21 TYPE HCM 4041

2 8.75 D.C 18.42 SERIAL NO. 7002072

1 X.O 5"-4.5" 5

1 H.W.D.P 83.26

BHA = 197.13

DEPTH OUT (m) 2693

DEPTH IN (m) 2538

TOTAL DRILLED (m) 155.00

TOTAL HRS RUN 15

CUTTING STRUCTURE

11 To MOC LOC BRO GAGE OGC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

NO 2 BIT SUB 1.02 SIZE 215 TIME 800 1200 1125

1 8.75 D.C 9.34 IADC CODE 1100 1125

1 STAB 1.34 IADC CODE 50 55

1 8.25" D.C 73.74 MANUFACTURER HUGHES

1 JAR 9.21 TYPE HCM 4041

2 8.75 D.C 18.42 SERIAL NO. 7002072

1 X.O 5"-4.5" 5

1 H.W.D.P 83.26

BHA = 197.13

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DEPTH IN (m) 2538

TOTAL DRILLED (m) 155.00

TOTAL HRS RUN 15

CUTTING STRUCTURE

11 To MOC LOC BRO GAGE OGC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

NO 3 BIT SUB 1.02 SIZE 215 TIME 800 1200 1125

1 8.75 D.C 9.34 IADC CODE 1100 1125

1 STAB 1.34 IADC CODE 50 55

1 8.25" D.C 73.74 MANUFACTURER HUGHES

1 JAR 9.21 TYPE HCM 4041

2 8.75 D.C 18.42 SERIAL NO. 7002072

1 X.O 5"-4.5" 5

1 H.W.D.P 83.26

BHA = 197.13

DEPTH OUT (m) 2693

DEPTH IN (m) 2538

TOTAL DRILLED (m) 155.00

TOTAL HRS RUN 15

CUTTING STRUCTURE

11 To MOC LOC BRO GAGE OGC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

NO 1 BIT SUB 1.02 SIZE 215 TIME 800 1200 1125

1 8.75 D.C 9.34 IADC CODE 1100 1125

1 STAB 1.34 IADC CODE 50 55

1 8.25" D.C 73.74 MANUFACTURER HUGHES

1 JAR 9.21 TYPE HCM 4041

2 8.75 D.C 18.42 SERIAL NO. 7002072

1 X.O 5"-4.5" 5

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TOTAL HRS RUN 15

CUTTING STRUCTURE

11 To MOC LOC BRO GAGE OGC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

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CUTTING STRUCTURE

11 To MOC LOC BRO GAGE OGC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

DRILLING CREW PAYROLL DATA

WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR 2005 MONTH 2 DAY 17

OPERATOR NORTHROCK RESOURCES LTD

CONTRACTOR NAME AKITA DRILLING LTD

RIG NO 40

PROVINCE N.W.T

CAMP X YES NO

RIG SAFETY DAYS 35

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 35

DRIVERS Brent Williams Terry Sanderson

DAY TOUR FROM 800 TO 1600 INJURIES

CREW SOC INS NO NAME HRS YES NO

DRILLER Mike Wiebe 10 MDW

DERRICK HAND Ron Hall 10 R.H

DERRICK HAND Nathan Surlnak 8 N.S

FLOOR HAND James McPherson 10 J.M

FLOOR HAND Andrew Saw 10 A.S

Roist about 10 F.C

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 35

DRIVERS Mike Wiebe Nathan Surlnak

EVENING TOUR FROM 1600 TO 2400 INJURIES

CREW SOC INS NO NAME HRS YES NO

DRILLER Chad Snyder 8 C.S

DERRICK HAND Andre Habel 8 A.H

DERRICK HAND Sean Breadner 8 S.B

MOTOR HAND Ken Smith 8 K.S

FLOOR HAND Sali Mohammed 8 S.M

LEASE HAND Tyler Salters 8 T.S

Foreman roist about 8 ST

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS 35

DRIVERS Chad Snyder Andre Habel

[illegible]

Form containing various sections: Licensee No, Well Name, Northrock Resources Ltd, Akita Drilling Ltd, Daily Checks, Drilling Crew Payroll Data, Morning Tour, Mud Record, Metres Drilled, Time Log, and Driller Signature.

[illegible]

LICENCE NO

WELL NAME & NO

OPERATOR

SURFACE LOCATION

SIGNATURE OF OPERATOR'S REPRESENTATIVE

NORTHROCK et al Sah Cho L-71-64-30-125-30

NORTHROCK RESOURCES LTD

AKITA DRILLING LTD

L-71-64-30-125-30

1/10

Travis Bouchard

Alvin Vogt

DAILY CHECKS

YEAR MONTH DAY

LAST CASING TUBING OR LINER

Q.D. (mm)

MIN L.D. (mm)

MASS (kg/m3)

GRADE

NO. OF JOINTS

TOTAL LENGTH

KB TO CSO HEAD

SET AT (m)

SPUD DATE

TIME

WELL TYPE

RE-ENTRY

OPERATOR'S AGE

OP FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM

VENDOR SOFTWARE VERSION

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) H2S Signs Posted if Required

(4) Well Licence & Block Diagrams Posted

(5) Flare Lines Status

(6) BOP Orbs Performed

(7) Visually Inspect BOPs Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (one/week/month)

(2) CAODC Rig Safety Inspection Checklist (one/night/month)

(4) Crown Saver Checked

(5) Motor Kils Checked

2005

2

13

40

FUEL @ 04:00 HRS

20007

20

171

165

71

171

5

H90

24

PZ 9

GARDNER DENVER

229

127

38.1

E 75

102

168

4 1/2 IF

261

PZ 9

GARDNER DENVER

229

127

38.1

X 95

102

168

4 1/2 IF

139

F 800

EMSCO

229

2005

2

13

40

FUEL @ 04:00 HRS

20007

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171

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H90

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X 95

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F 800

EMSCO

229



PASON

WELL LOGS																																	
CODE NO		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS					
DATE	TIME	SHALE SHAKER (S)																								RENTALS / SERVICES		MORNING		DAY			
																										NO. TYPE		MEGAJOULES		13312		591162	
																										2 DERICK							
																										SCREENS CHANGED		NEW / USED		ACCUMULATOR		34	
																										TOP		TOP		KB UNIHEAD FLANGE		5.70	
MORN										1.25						1.0								9.75				12.00					
DAY																							11.0	1.0			12.00						
TOTAL										1.25						1.00							11.00	10.75			24.00						

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO.

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI To MDC LOC BRO GAGE OGC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

HRS RUN

12

HRS RUN

12

BOILER PH

10

BOILER PH

10.5

STACK TEMP

180

STACK TEMP

180

DRILLER SIGNATURE

Brent Williams

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0

100

1.00

15

TEST B O P

100

1045

9.75

23

CLEAN MUD TANKS

1045

1200

1.25

9

CUT OFF DRILL LINE & ADJUST BRAKES

1200

NOTES

INSP DEADLINE CLAMP BRAKE LINKAGE FLARE LINES

JSA-CONF SPACE ENTRY/VAC USE/WORKING AROUND HIGH PRESS LINES/RIG UP LAY DOWN

TRUCK/LOADER QYTRIP IN WTOP DRIVE/ PAU D.P W/LAY DOWN TRUCK

BLEW BOILER 5 X 4 SEC EACH

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MSL

MAP

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO.

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI To MDC LOC BRO GAGE OGC REASON PULLED TOTAL RUN HRS

HOLE CONDITION

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

HRS RUN

12

HRS RUN

12

BOILER PH

10.5

BOILER PH

11

STACK TEMP

180

STACK TEMP

200

DRILLER SIGNATURE

Mike Wiebe

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200

1300

1.00

23

CLEAN TANKS

1300

2400

11.00

22

PREPARE TOP DRIVE FOR NEW ROTARY SEAL

NOTES

INSP DEADLINE ANCHOR BRAKE LINKAGE & TEST CROWN SAVER

JSA S SUP ACUT

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MSL

MAP

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG NO

RIG MANAGER

PROVINCE

CAMP

YES

NO

RIG SAFETY DAYS

NLWT

31

MORNING TOUR

FROM

0

TO

1200

INJURED

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER

Brent Williams

12

BW

DERRICK HAND

Terry Sanderson

12

TS

DERRICK HAND

Jerry Hayman

12

JH

MOTOR HAND

Ken Lauck

12

KL

FLOOR HAND

Tyler Potts

12

TP

FLOOR HAND

William Andrew

12

WA

WELL SITE COORDINATOR

Garry Legiehn

12

GL

RATE SCHEDULE

REGULAR

REPAIR

X

INVERT

CREW SAFETY DAYS

DRIVERS

Brent Williams

31

Terry Sanderson

DAY TOUR

FROM

1200

TO

24

INJURED

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER

Mike Wiebe

12

MDW

DERRICK HAND

Ron Hall

12

RH

MOTOR HAND

Shawn Imhann

12

SI

FLOOR HAND

James McPherson

12

JM

FLOOR HAND

Andrew Sewi

12

AS

Foreman roust about

William Cairns

12

WC

Roust about

Jeffrey Jackson

12

JJ

Roust about

Freddy Clement

12

FC

RATE SCHEDULE

REGULAR

REPAIR

X

INVERT

CREW SAFETY DAYS

DRIVERS

Mike Wiebe

31

Mike Wiebe

[illegible]

LICENCE NO
NORTHROCK et al Sah Cho L-71-64-30-125-30

WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR
NORTHROCK RESOURCES LTD

CONTRACTOR
AKITA DRILLING LTD

SURFACE LOCATION
L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE
Travis Bouchard

DAILY CHECKS
(1) Daily Well Around Inspection
(2) Detailed Inspection Weekly (Using Check List)
(3) 1425 Signs Posted if Required
(4) Well Licence & Stick Diagram Posted
(5) Plans Lines Staked
(6) 1400 Daily Performed
(7) Visually Inspect BOPs - Park Lines & Degasser Lines
(1) Rig Site Health & Safety Meeting (one/week/month)
(2) CAODC Rig Safety Inspection Checklist (one/week/month)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kilo Checked

YEAR
2005

MONTH
2

DAY
11

LAST CASING TUBING OR LIVER
FUEL @ 01 00 HRS

Q.D. (mm)
17

MR.LD. (mm)
71

MASS (kg/m3)
171

GRADE
E 75

NO. OF JOINTS
24

TOTAL LENGTH
570

NO TO CIRC HEAD
570

SET AT (m)
570

SPUD DATE
2005/01/23

TIME
13 15

WELL TYPE
VERT

RE-ENTRY
NO

OPERATOR'S AFE
240346

CONTRACTOR'S JOB NUM
AKTA40_20050211_1B

TOUR SHEET SERIAL NUM
AKTA40_20050211_1B

VEHICLE SOFTWARE VERSION
EDR_3-11_HF2 ETS 2.2

CAODC

PASON

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
INCLIP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CIG & CEMENT	WAIT ON CEMENT	HIPPLE UP B.O.P	TEST B.O.P	DRILLSTEM TEST	PLUG BACK	BOULEZS CEMENT	FISHING	DR WORK	SAFETY MEETING	DRILL	DRILL	DRILL	DRILL	DRILL	DRILL	DRILL
MORN				8.0										5.75													12.00
DAY				11.75																		0.25					12.00
TOTAL				17.75										5.75								0.25					24.00

DRILLING ASSEMBLY (AT END OF TOUR)
BIT
O.D.

LENGTH

BIT RECORD
BIT NO.
SIZE
WOC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN
CUTTING STRUCTURE
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
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m)
DEVIATION
DIRECTION
BOILERS
HRS RUN
BLOWER PH
BLOWER PH
STACK TEMP
STACK TEMP

METRES DRILLED
FROM
TO
D-R-C
RPM
WOB
CIRCULATION PRESSURE KPa
PUMP NO. 1
PUMP NO. 2
UNDER SIZE
SPM
UNDER SIZE
SPM
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m)
DEVIATION
DIRECTION
DRILLER SIGNATURE
TIME / DEPTH

TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
0 45 0.75 12 RUN CASING
45 145 1.00 12 PULL CIRC HEAD OFF TOP DRIVE NOT SEALING/RIG UP CASING CIRC HEAD
145 400 2.25 5 ATTEMPT TO CIRC CASING
400 515 1.25 12 RUN CASING
515 700 1.75 5 RIG UP TO CIRC CASING
700 945 2.75 12 RUN CASING
945 1000 0.25 24 B.O.P DRILL WELL SHUT IN 60 SEC
1000 1200 2.00 5 RIG UP AND CIRC CASING
1200
NOTES INSP DEADLINE CLAMP,BRAKE LINKAGE TEST CROWN SAVER
JSA RUN CASING,CIRC CASING
BLEW BOILERS 4X 5 SEC EACH
DRILLER SIGNATURE
TIME / DEPTH

DRILLING ASSEMBLY (AT END OF TOUR)
BIT
O.D.

LENGTH

BIT RECORD
BIT NO.
SIZE
WOC CODE
MANUFACTURER
TYPE
SERIAL NO.
JETS
DEPTH OUT (m)
DEPTH IN (m)
TOTAL DRILLED (m)
TOTAL HRS RUN
CUTTING STRUCTURE
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
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m)
DEVIATION
DIRECTION
BOILERS
HRS RUN
BLOWER PH
BLOWER PH
STACK TEMP
STACK TEMP

METRES DRILLED
FROM
TO
D-R-C
RPM
WOB
CIRCULATION PRESSURE KPa
PUMP NO. 1
PUMP NO. 2
UNDER SIZE
SPM
UNDER SIZE
SPM
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m)
DEVIATION
DIRECTION
DRILLER SIGNATURE
TIME / DEPTH

TIME LOG
DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
1200 2145 9.75 5 CIRC CASING CLEAN HOLE
2145 2345 2.00 5 big landing joint circ hole
2345 2400 0.25 22 BOP DRILL WELL SECURE IN 54 SEC
2400
NOTES INSP DEAD LINE ANCHOR,BRAKE LINKAGE & CROWN SAVER
JSA S RH WCASING
blew boilers 4x 5 sec each
DRILLER SIGNATURE
TIME / DEPTH

DRILLING CREW PAYROLL DATA
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR
2005

MONTH
2

DAY
11

OPERATOR
NORTHROCK RESOURCES LTD.

CONTRACTOR
AKITA DRILLING LTD.

RIG MANAGER
Alvin Vogt

RIG NO.
40

PROVINCE
NLW T

CAMP
X YES
NO

RIG SAFETY DAYS
29

MORNING TOUR
FROM
0
TO
1200
INJURIES

CREW
SOC INS. NO
NAME
HRS
YES
NO
DRILLER
Brent Williams
12
BW
DERRICK HAND
Terry Sanderson
12
TS
DERRICK HAND
Jerry Hayman
12
JH
MOTOR HAND
Ken Lauck
12
KL
FLOOR HAND
Tyler Potts
12
TP
FLOOR HAND
William Andrew
12
WA

RATE SCHEDULE
REGULAR
REPAIR
X
INVERT

CREW SAFETY DAYS
DRIVERS
Brent Williams
Terry Sanderson

DAY TOUR
FROM
1200
TO
24
INJURIES

CREW
SOC INS. NO
NAME
HRS
YES
NO
DRILLER
Mike Wiebe
12
MDW
DERRICK HAND
Ron Hall
12
RH
MOTOR HAND
Shawn Imhann
12
SI
FLOOR HAND
James McPherson
12
JM
FLOOR HAND
Andrew Sawl
12
AS
Foreman rust about
William Cairns
12
WC
Roust about
Jeffrey Jackson
12
JJ
Roust about
Freddy Clement
12
FC

RATE SCHEDULE
REGULAR
REPAIR
X
INVERT

CREW SAFETY DAYS
DRIVERS
Mike Wiebe

Form header section containing project details, company information, and well data. Includes fields for Licence No, Well Name & No, Operator, Contractor, Surface Location, and various well parameters like depth, pressure, and temperature.



PASON

Table with 26 columns representing different well parameters and 2 rows of data. Columns include: 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. Data rows show values for parameters like RIGUP & TEARDOWN, DRILL ACTUAL, REAMING, CORING, COND MUD & CIRC, TRIPS, RIG SERVICE, CUT OFF DRILL LINE, DEV SURVEY, WIRELINE LOGS, RUN C&G & CEMENT, WAIT ON CEMENT, HOLE UP BOP, TEST BOP, DRILLTEST TEST, PUMP BACK, SOLIDIZE CEMENT, FISHING, DR WORK, SAFETY MEETING, etc.

Table with 2 columns: WELL NAME & NO, YEAR, MONTH, DAY. Data row shows: NORTHROCK et al Sah Cho L-71-64-30-125-30, 2005, 2, 10.

Table with 26 columns representing different well parameters and 2 rows of data. Columns include: NO, DRILLING ASSEMBLY (AT END OF TOUR), LENGTH, BIT RECORD, MORNING TOUR, MUD RECORD, METRES DRILLED, TIME LOG. Data rows show values for parameters like BIT NO, R/R, MUD TYPE, INVERT, WATER BASED, OIL BASED, FROM, TO, D-R-C, RPM, WOB, etc.

Table with 2 columns: WELL NAME & NO, YEAR, MONTH, DAY. Data row shows: NORTHROCK et al Sah Cho L-71-64-30-125-30, 2005, 2, 10.

Table with 26 columns representing different well parameters and 2 rows of data. Columns include: NO, DRILLING ASSEMBLY (AT END OF TOUR), LENGTH, BIT RECORD, DAY TOUR, MUD RECORD, METRES DRILLED, TIME LOG. Data rows show values for parameters like BIT NO, R/R, MUD TYPE, INVERT, WATER BASED, OIL BASED, FROM, TO, D-R-C, RPM, WOB, etc.

Table with 2 columns: WELL NAME & NO, YEAR, MONTH, DAY. Data row shows: NORTHROCK et al Sah Cho L-71-64-30-125-30, 2005, 2, 10.

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Travis Bouchard SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Location & Block Diagram Posted (5) Flow Lines Diagram (6) BOP Drills Performed (7) Visually Inspect BOPs- Flow Lines & Degasser Lines (8) CAODC Rig Safety Inspection Checklist (one/night/month) (9) Most Inspection before Raising or Lowering (10) Crown Block Checked (11) Motor Kts Checked

YEAR 2005 MONTH 2 DAY 9

LAST CASING TUBING OR LINER

FUEL @ 08:00 HRS

TEMPERATURES

DC 171 165 DC 71 171 5 190 24 PZ 9 GARDNER DENVER 229

DC 127 38.1 E 75 102 168 4 1/2 IF 261 PZ 9 GARDNER DENVER 229

DC 127 38.1 X 95 102 168 4 1/2 IF 139 F 800 EMSCO 229

SPUD DATE 2005/01/23 TIME 13 15

RIG RELEASE

WELL TYPE VERT REGISTRY NO

OPERATOR'S AFE 240346

KELLY BASH 6.0 OF FUEL

CONTRACTOR'S JOB NAME

TOUR SHEET SERIAL NUM AKTA40_20050209_1B

VENDOR SOFTWARE VERSION EDR_3-1_1_HF2 ETS 2.2

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 27 28 29 30

RIGUP & TEARDOWN DRL 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 HOLE UP BOP TEST BOP DRILLIST TEST PLUG BACK SOLIDIZE CEMENT FISHING BR WORK SAFETY MEETING

TOTALS 12.00 12.00 24.00

NO DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD MORNING TOUR MUD RECORD METRES DRILLED TIME LOG

1 BIT SUB 1.00 1.0 311 TIME 0 500 5.00 11 WIRE LINE LOGS/RAN-NUTRON DSI-OBMI

2 9" D C 195 28.23 VACC CODE DENSITY (kg/m3) 500 930 4.50 8 TRIPS R/L H W/311mm R/R TRI-CONE. FILL PIPE EVERY 1000m

3 BELL SUB 195 1.23 MANUFACTURER HUGHES FUNNEL VISCOSITY 930 1045 1.25 5 CONDITION MUD & CIRC B T M S UP THROUGH CHOKE @ 2440m

4 6.75 D C 195 73.64 TYPE MX-1 FLUID LOSS (cm3) 1045 1115 0.50 3 REAMING WASH FR/2440 TO 2526m

5 JAR 170 9.21 SERIAL NO. 5065770 pH 1115 1130 0.25 7 RIG SERVICE FUNCTION ANNUAL 23 SEC

6 6.75 D C 195 27.86 JETS 22.2 22.2 PVT 1130 1200 0.50 5 CONDITION MUD & CIRC B T M S UP THROUGH CHOKE @ 2526m

7 X.O 165 82 22.2 22.2

8 H.W.D.P 127 83.26 22.2

DEPTH OUT (m) 2538

DEPTH IN (m) 655

TOTAL DRILLED (m) 1883.00

TOTAL HRS RUN 99

CUTTING STRUCTURE

TI To MDC LOC BRO GAGE ODC REASON PULLED TOTAL RUN m/hr

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

WT OF D.C. 25

WT OF STRING 104

NO DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD DAY TOUR MUD RECORD METRES DRILLED TIME LOG

1 BIT SUB 1.00 1.0 311 TIME 1200 1215 0.25 5 CONDITION MUD & CIRC THROUGH CHOKE B T.M.S UP @ 2526m

2 9" D C 195 28.23 VACC CODE DENSITY (kg/m3) 1215 1230 0.25 3 REAMING WASH FR/2526 TO 2538m

3 BELL SUB 195 1.23 MANUFACTURER HUGHES FUNNEL VISCOSITY 1230 1945 7.25 5 CONDITION MUD & CIRC WORK PIPE & CLEAN UP HOLE @ 2538m

4 6.75 D C 195 73.64 TYPE MX 1 FLUID LOSS (cm3) 1945 2330 3.75 6 WIPER TRIP 6 STANDS WASH BACK TO BOTTOM

5 JAR 170 9.21 SERIAL NO. 5065770 pH 2330 2400 0.50 5 CONDITION MUD & CIRC WORK DRILL STRING

6 6.75 D C 195 27.86 JETS 22.2 22.2

7 X.O 165 82 22.2 22.2

8 H.W.D.P 127 83.26 22.2

DEPTH OUT (m) 2538

DEPTH IN (m) 655

TOTAL DRILLED (m) 1883.00

TOTAL HRS RUN 99

CUTTING STRUCTURE

TI To MDC LOC BRO GAGE ODC REASON PULLED TOTAL RUN m/hr

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

WT OF D.C. 25

WT OF STRING 104



PASON

LICENCE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

NORTHROCK RESOURCES LTD

SURFACE LOCATION

L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE

Travis Bouchard

CONTRACTOR

AKITA DRILLING LTD

UNIQUE ID

1/0

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Alvin Vogt

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection - Weekly (Using Check List)

(3) VOS Signs Posted if Required

(4) Well License & Stock Diagram Posted

(5) Flare Lines Staked

(6) BOP Drills Performed

(7) Visually Inspect BOP's Flare Lines & Degasser Lines

(8) Rig Site Health & Safety Meeting (one/week/month)

(9) CADCDC Rig Safety Inspection Checklist (one/week/month)

(10) Mast Inspection before Raising or Lowering

(11) Crown Sewer Checked

(12) Motor Vibs Checked

YEAR

2005

MONTH

2

DAY

8

LAST CLASSIC RIGGING OR LINER

FUEL @ 08:00 HRS

13910

Q.D. (mm)

MIN LQ (mm)

MASS (kg/m3)

GRADE

NO. OF JOINTS

TOTAL LENGTH

HB TO CSD HEAD

SET AT (m)

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

WIND CONDITION

DC/DP

DC/DP SIZE

MASS

GRADE

MINIMUM ID

T JNT O.D.

TYPE THREAD

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

DC 171

DC 127

DC 127

165

38.1

38.1

165

71

171

5" H90

24

PZ 9

GARDNER DENVER

229

DC 171

DC 127

DC 127

165

38.1

38.1

165

71

171

5" H90

24

PZ 9

GARDNER DENVER

229

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

RISEUP & TEARDOWN

DRILL ACTUAL

REMAINING

CORING

COND MUD & CIRC

TRIPS

RIG SERVICE

REPAIR RIG

OUT OFF DRILL LINE

DEV SURVEY

WIRELINE LOGS

RUN CSD & CEMENT

WAIT ON CEMENT

HPPLE UP B.O.P

TEST B.O.P

DRILLIST TEST

PLUG BACK

SQUEEZE CEMENT

FISHING

DR WORK

SAFETY MEETING

TOTALS

NO TYPE DERRICK

TYPE DERRICK

MEGAJOULES

2418

580270

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

BIT

O.D.

30

BIT NO.

2

MUD TYPE

INVERT

WATER BASED

OIL BASED

X

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

8" D.C

280

28.23

SIZE

311

TIME

200

400

000

0015

0.25

5

CIRCULATE THROUGH MANIFOLD

8" 8.75 OX

195

1.23

WDC CODE

DENSITY (kg/m3)

900

900

0015

100

0.75

8

WASH 3 STANDS TO BOTTOM

8.75 D.C

185

55.07

MANUFACTURER

HUGHES

FUNNEL VISCOSITY

39

40

100

400

3.00

5

CONDITION MUD & CIRC PRIOR TO 10 STAND WIPER TRIP

JAR

170

9.21

TYPE

BX605

FLUID LOSS (cm3)

PH

515

600

0.75

5

TRIPS P.O.H 10 STANDS/RLH WASH LAST 2 STANDS DOWN

8.75 D.C

185

55.75

SERIAL NO.

7101404

P.H.T

38.8

45.1

600

800

2.00

5

CIRC BOTTOM UP THROUGH MANIFOLD

X.O

185

.82

JETS

7X20

0

0

800

815

0.25

7

CONDITION MUD & CIRC PRIOR TO LOGGING SWK/PIPE

H.W.D.P

127

83.28

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

815

930

1.25

5

RIG SERVICE

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

CONDITION MUD & CIRC

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

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TRIPS P.O.H TO LOG FR/2523 TO 1393m

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TOTAL DRILLED (m)

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TOTAL HRS RUN

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830

1200

2.50

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2538

DEPTH IN (m)

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TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

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830

1200

2.50

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2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

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DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

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TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

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TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

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TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

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TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

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1200

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TOTAL DRILLED (m)

1883.00

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2538

DEPTH IN (m)

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TOTAL DRILLED (m)

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1883.00

TOTAL HRS RUN

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2.50

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1883.00

TOTAL HRS RUN

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2538

DEPTH IN (m)

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1883.00

TOTAL HRS RUN

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1200

2.50

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DEPTH IN (m)

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TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

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2.50

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TRIPS P.O.H TO LOG FR/2523 TO 1393m

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2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

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830

1200

2.50

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TRIPS P.O.H TO LOG FR/2523 TO 1393m

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2538

DEPTH IN (m)

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TOTAL HRS RUN

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TRIPS P.O.H TO LOG FR/2523 TO 1393m

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1883.00

TOTAL HRS RUN

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830

1200

2.50

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TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200

2.50

8

TRIPS P.O.H TO LOG FR/2523 TO 1393m

DEPTH OUT (m)

2538

DEPTH IN (m)

655

TOTAL DRILLED (m)

1883.00

TOTAL HRS RUN

99

830

1200</

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Well Location & Back Diagram Posted (5) Flow Lines Diagram (6) BOP Drills Performed (7) Visually Inspect BOPs- Flow Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (weekly/monthly) (2) CAODC Rig Detail Inspection Checklist (weekly/monthly) (3) Mast Inspection before Running or Lowering (4) Crown Sewer Checked (5) Mast Kib Checked

YEAR 2005 MONTH 2 DAY 7

LAST CASING TUBING ON LIVER

OLD (mm) MIN ID (mm) MASS (kg/m) MAKE GRADE NO. OF JOINTS TOTAL LENGTH NO TO CSO HEAD SET AT (m)

TEMPERATURE IN CURRENT CONDITIONS CLEAR

WIND DIRECTION NORTH

ROAD CONDITION ICE

DC/DP DC/DP SIZE MASS GRADE MINIMUM I.D. T INT O.D. TYPE THREAD NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE LENGTH

DC 171 165 DC 71 171 5 180 24 PZ 9 GARDNER DENVER 229

DP 127 38.1 E 75 102 168 4 1/2 IF 281 PZ 9 GARDNER DENVER 229

DP 127 38.1 X 95 102 168 4 1/2 IF 139 F 800 EMSCO 229

SPUD DATE 2005/01/23 TIME 13 15

RIG RELEASE TIME

WELL TYPE VERT REENTRY NO

OPERATOR'S AFE 240346

KELLY BSHG 6.0 OF FUEL

CONTRACTOR'S JOB NAME

TOUR SHEET SERIAL NUM AKTA40_20050207_1B

VENDOR SOFTWARE VERSION EDR_3-1.1_HF2 ETS 2.2



PASON

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & DRG	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	APPLY UP BOP	TEST BOP	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR WORK	SAFETY MEETING							
MORN	2.75			4.25	5.0																						12.00
DAY				3.0	6.5			1.0											1.5								12.00
TOTAL	2.75			7.25	11.50			1.00											1.50								24.00

DRILLING CREW PAYROLL DATA

WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 YEAR 2005 MONTH 2 DAY 7

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

RIG MANAGER Alvin Vogt RIG NO. 40

PROVIDE N.W.T. CAMP ☒ YES ☐ NO RIG SAFETY DAYS 25

MORNING TOUR FROM 0 TO 1200

CREW SOC INS. NO. NAME HRS YES NO

DRILLER Chad Snyder Miller 12 C.S.

DERRICK HAND Andre Habel 12 A.H.

DERRICK HAND Sean Breadner 12 S.B.

MOTOR HAND Ken Smith 12 K.S.

FLOOR HAND Sali Mohammed 12 S.M.

FLOOR HAND Tyler Salters 12 T.M.

DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD

BIT NO. 2

MUD TYPE INVERT WATER BASED ☐ OIL BASED ☒

TIME 200 500 2500 2538 D 8.5

DENSITY (kg/m3) 900 900

FUNNEL VISCOSITY 42 42

FLUID LOSS (cm3) pH

P.V.T. 51.8 48.8

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

DRILLER SIGNATURE Barry Crims

TIME / DEPTH

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

DRILL ACTUAL 311mm F/2500m-2520m KB

ACCUM CIRC TIME BOTTOM ON SAMPLES

DRILL ACTUAL 311mm TO 2525m KB

CIRCULATE BOTTOM HOLE SAMPLE

DRILL ACTUAL 311mm TO 2538m KB INTERMEDIATE TD

CIRCULATE BOTTOM HOLE SAMPLE

DUMMY TRIP TO SURFACE STRAP OUT pul 5 eld & pump pill

TANK FARM #1 31m3 #7 31m3 #2,3,4,5,6,8 mt

NOTES VISUALLY INSPECT ALL MANIFOLD VALVES, FUNCTION FLARE STACK

DEAD-LINE CLAMP

REVIEW J.S.A.S ON WORKING W/VERT CIRCULATING

BLOW DOWN BOILER

BLEW BOILERS #1,2,3,2-X EACH

SPECIAL EVENT DRILL AHEAD T.D.C.S.G POINT SAFETY TOPIC MED. MAP

DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD

BIT NO. 2

MUD TYPE INVERT WATER BASED ☐ OIL BASED ☒

TIME 2300

DENSITY (kg/m3) 900

FUNNEL VISCOSITY 39

FLUID LOSS (cm3) pH

P.V.T. 38.8

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

DRILLER SIGNATURE Barry Crims

TIME / DEPTH

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

TRIPS POOH FLOW CHECK AS REQUIRED

DIR. WORK LAY OUT R/REAMER & VERTITRAK

TRIPS RJ.H TO 626m

CUT OFF DRILL LINE 18m

TRIPS RH F626- FILL PIPE @ 1167m-1892m WASH LAST STAND TO BOTTOM

CIRCULATE PRESSURE UP WORK TIGHT HOLE

CIRCULATE BOTTOMS UP GAS TO SURFACE SHUT IN WELL

CIRCULATE THROUGH MANIFOLD

NOTES FUNCTION UPPER PIPE RAMS & BLIND RAMS O.H.

DRILL PIPE TALLY 2312.97m STRAP 2312.73m NO CORRECTION

DRILL PIPE STANDS 2312.97

DRILL PIPE SINGLES

KELLY DOWN 23.56

TOTAL 2523.28

WT OF D.C. 25

WT OF STRING 104

DAY TOUR FROM 1200 TO 24

CREW SOC INS. NO. NAME HRS YES NO

DRILLER Barry Crims 12 B.C.

DERRICK HAND Terry Sanderson 12

DERRICK HAND Jerry Hayman 12 J.H.

MOTOR HAND Ken Lauck 12 K.L.

FLOOR HAND Tyler Potts 12 T.P.

FLOOR HAND William Andrew 12 W.A.

WELL SITE COORDINATOR Steve Pringle 12

ROST ABOUT Peter Andrew 12 P.W.

ROST ABOUT Garrette Harley 12 G.H.

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT ☐

CREW SAFETY DAYS 25

DRIVERS Chad Snyder Miller Andre Habel

[illegible]

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt

DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (Using Check List) (3) H2S Signs Posted if Required (4) Visual Leaks & Block Diagrams Posted (5) Flare Lines Staked (6) BOP Drills Performed (7) Visually Inspect BOP's Flare Lines & Degreaser Lines

YEAR 2005 MONTH 2 DAY 5

LAST CASING TUBING OF LOKER

Q.D. (mm) MIN ID. (mm) MASS (kg/m3) MAKE GRADE NO. OF JOINTS TOTAL LENGTH NO. TO CSD HEAD SET AT (m)

TEMPERATURE 22 DO/DP 171 165 DC 171 165 DC 71 171 5 H90 24 PZ 9 GARDNER DENVER 229

SHALE SHAKER (S) RENTALS / SERVICES MEGAJOULES 3970 565509

SPUD DATE 2005/01/23 TIME 13 15

RIG RELEASE TIME 13 15

WELL TYPE VERT REENTRY NO

OPERATOR'S AFR 240346

KELLY BSHD 6.0 OF FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM AKTA00_20050205_1B

VEHICLE SOFTWARE VERSION EDR 3-11_HF2 ETS 2.2

PASON

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
GROUP & TEARDOWN	DRILL ACTUAL	READING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSD & CEMENT	WAIT ON CEMENT	APPLE UP & O.P.	TEST O.P.	DRILLSTEM TEST	PLUG BACK	BOUZZE CEMENT	FISHING	DR WORK	SAFETY MEETING							
MORN	11.5					0.25			0.25																		12.00
DAY	11.0					0.25			0.25																		12.00
TOTAL	22.50					0.50			0.50																		24.00

NO. DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD MORNING TOUR MUD RECORD METRES DRILLED TIME LOG

1 VERTI TRAK 261 10 15 SIZE 311 TIME 300 600 1832 2075 D 10 0 0 745 7 75 2 DRILL ACTUAL 311mm F/1932m-2075m

1 FILTER SUB 245 1.69 WOC CODE DENSITY (kg/m3) 870 870 2075 2131 D 10 0 745 800 0.25 10 ACCUM DEVIATION SURVEY

1 FLOAT SUB 245 75 MANUFACTURER HUGHES FUNNEL VISCOSITY 40 41 800 1045 2.75 2 DRILL ACTUAL 311mm HOLE FR/ 2075 2103m

1 ROLLER-REAMER 290 2.13 TYPE BX605 FLUID LOSS (cm3) 1045 1100 0.25 7 SERVICE RIG AND TOP DRIVE, FUNCTION LOWER PIPE RAMS O/C 5 SEC

3 8" D.C. 280 28.23 SERIAL NO. 7101404 pH 1100 1200 1 00 2 DRILL ACTUAL 311mm HOLE FR/2103-2131m

1 8" 8.75 OX 196 1.23 7X20 P.V.T. 78.8 71.8 1200

1 8.75 D.C. 185 55.07 JETS MUD MATERIALS ADDED SOLIDS CONTROL CIRCULATION PRESSURE (kPa) PUMP NO. 1 PUMP NO. 2

1 JAR 170 9.21 DEPTH OUT (m) 2131 PRODUCT AMOUNT UNIT HOURS RUN INTAKE DENSITY (kg/m3) OVER FLOW DENSITY UNDER FLOW DENSITY

1 8.75 D.C. 185 55.75 DEPTH IN (m) 655 BENTONE 150 20 SX 2 870 860 1590 12376 152 120 152 120

1 X.O. 185 82 DEPTH IN (m) 655 DYNAPBR FINE 20 SX 2 870 860 1590 4130 62 62 62

1 H.W.D.P. 127 83.26 TOTAL DRILLED (m) 1478.00 NEW 100 2 BBL 2 870 860 1590 4130 62 62 62

TOTAL HRS RUN 74.5

CUTTING STRUCTURE

11 To MOC LOC BRO GAGE CDC REASON PULLED TOTAL RUN (m)

HOLE CONDITION

DRILL PIPE STANDS 1884.07 HOLE DRAG 4kdm-up 2-down

DRILL PIPE SHOULDS

KELLY DOWN 1.68 TORQUE AT BOTTOM 890

TOTAL 2131.00

WT OF D.C. 25 FILL ON BOTTOM (m) 25

WT OF STRING 95

NO. DRILLING ASSEMBLY (AT END OF TOUR) LENGTH BIT RECORD DAY TOUR MUD RECORD METRES DRILLED TIME LOG

1 VERTI TRAK 261 10 15 SIZE 311 TIME 1000 1400 2200 2131 2304 D 10 0 1200 1900 7 00 2 DRILL ACTUAL 311mm HOLE F/2131-2243m

1 FILTER SUB 245 1.69 WOC CODE DENSITY (kg/m3) 890 890 890 1900 1915 0.25 10 ACCUM DEVIATION SURVEY

1 FLOAT SUB 245 75 MANUFACTURER HUGHES FUNNEL VISCOSITY 40 40 42 1915 2315 4 00 2 DRILL ACTUAL 311mm HOLE F/2243-2303m

1 ROLLER-REAMER 290 2.13 TYPE BX605 FLUID LOSS (cm3) 40 40 42 2315 2330 0.25 7 RIG SERVICE FUNCTION ANN 21 SEC S TO C/O (SERVICE VARCO TOP DRIVE)

3 8" D.C. 280 28.23 SERIAL NO. 7101404 pH 2330 2400 0 50 5 CRC PRIOR TO P.O.O.H TO C.S.G

1 8" 8.75 OX 196 1.23 7X20 P.V.T. 65.6 58.9 48.5

1 8.75 D.C. 185 55.07 JETS MUD MATERIALS ADDED SOLIDS CONTROL CIRCULATION PRESSURE (kPa) PUMP NO. 1 PUMP NO. 2

1 JAR 170 9.21 DEPTH OUT (m) 2304 PRODUCT AMOUNT UNIT HOURS RUN INTAKE DENSITY (kg/m3) OVER FLOW DENSITY UNDER FLOW DENSITY

1 8.75 D.C. 185 55.75 DEPTH IN (m) 655 CAL CARB 325 11 SX 4 890 870 1590 14618 152 120 152 120

1 X.O. 185 82 DEPTH IN (m) 655 BENTONE 150 28 SX 4 890 870 1590 4366 60 60 60

1 H.W.D.P. 127 83.26 TOTAL DRILLED (m) 1648.00 DYNAPBR FINE 20 SX 4 890 870 1590 4366 60 60 60

TOTAL HRS RUN 85.5

CUTTING STRUCTURE

11 To MOC LOC BRO GAGE CDC REASON PULLED TOTAL RUN (m)

HOLE CONDITION

DRILL PIPE STANDS 2055.43 HOLE DRAG 5Kdm -UP & 2 DOWN

DRILL PIPE SHOULDS

KELLY DOWN 0.2 TORQUE AT BOTTOM 890

TOTAL 2304.00

WT OF D.C. 25 FILL ON BOTTOM (m) 25

WT OF STRING 101

DRILLING CREW PAYROLL DATA

WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 YEAR 2005 MONTH 2 DAY 5

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD.

RIG MANAGER Alvin Vogt RIG NO. 40

PROVINCE NLW T CAMP X YES NO RIG SAFETY DAYS 23

MORNING TOUR FROM 0 TO 1200 HOURS

CREW SOC INS. NO NAME HRS YES NO

DRILLER Chad Snyder Miller 12 C.S.

DERRICK HAND Andre Habel 12 A.H.

DERRICK HAND Sean Breadner 12 S.B.

MOTOR HAND Ken Smith 12 K.S.

FLOOR HAND Sali Mohammed 12 S.M.

FLOOR HAND Tyler Salters 12 T.M.S.

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS 23 DRIVERS Chad Snyder Miller Andre Habel

DAY TOUR FROM 1200 TO 24 HOURS

CREW SOC INS. NO NAME HRS YES NO

DRILLER Barry Cnms 12 B.C.

DERRICK HAND Terry Sanderson 12 T.S.

DERRICK HAND Jerry Hayman 12 J.H.

MOTOR HAND Ken Lauck 12 K.L.

FLOOR HAND Tyler Potts 12 T.P.

FLOOR HAND William Andrew 12 W.A.

WELL SITE COORDINATOR Steve Pringle 12 S.T.

ROST ABOUT Peter Andrew 12 P.W.

ROST ABOUT Garette Harley 12 G.H.

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS 23 DRIVERS Chad Snyder Miller Andre Habel

[illegible]

[illegible]

LICENCE NO						WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30									
OPERATOR NORTHROCK RESOURCES LTD								CONTRACTOR AKITA DRILLING LTD							
SURFACE LOCATION L-71-64-30-125-30								UNIQUE ID 1 / 10							
SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy								SIGNATURE OF CONTRACTOR'S RIG MANAGER Alvin Vogt							
								DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection - Weekly (Using Check List) (3) HGS Sign Post / Recorder (4) Well Location & Back Diagrams Posted (5) Flow Lines Staked (6) BOP Data Performed (7) Visually Inspect BOP+ Flow Lines & Depressurize Lines (1) Rig Site Health & Safety Meeting (on/offshore) (2) CAODC Rig Safety Inspection Checklist (on/offshore) (3) Mast Inspection before Raising or Lowering (4) Crown Saver Checked (5) Motor Safe Checked							
								RIG DATA YEAR 2005 MONTH 2 DAY 2 RIG NO. 40 FUEL @ 08:00 HRS NO. 24491 BOLLER TEMPERATURE CURRENT CONDITIONS CLEAR WIND DIRECTION NORTH ROAD CONDITION ICE DCP DCP SIZE MASS GRADE MINIMUM TO T.B.T. O.D. TYPE THREAD NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE LENGTH DCP DCP SIZE MASS GRADE MINIMUM TO T.B.T. O.D. TYPE THREAD NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE LENGTH DCP DCP SIZE MASS GRADE MINIMUM TO T.B.T. O.D. TYPE THREAD NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE LENGTH							
								RENTALS / SERVICES MORNING 7268 DAY 561539 NO. 2 DECK TYPE DECK MEGAJOULES SCREENS CHANGED NEW USED TOP TOP MIDDLE MIDDLE BOTTOM BOTTOM							
								DRILLING CREW PAYROLL DATA WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 YEAR 2005 MONTH 2 DAY 2 OPERATOR NORTHROCK RESOURCES LTD. CONTRACTOR AKITA DRILLING LTD. RIG MANAGER Alvin Vogt RIG NO. 40 PROVINCE NLW T CAMP X YES NO RIG SAFETY DAYS 20							
								MORNING TOUR FROM 0 TO 1200 INJURED 0 CREW SOC INS. NO NAME HRS YES NO DRILLER Mike Wiebe 12 MDW DERRICK HAND Tim Barrett 12 TB DERRICK HAND Ron Hall 12 RH MOTOR HAND Nathan Surinak 12 NS FLOOR HAND James McPherson 12 JM FLOOR HAND Andrew Sewi 12 AS							
								DAY TOUR FROM 1200 TO 24 INJURED 0 CREW SOC INS. NO NAME HRS YES NO DRILLER Chad Snyder Miller 12 CS DERRICK HAND Andre Habel 12 AH DERRICK HAND Sean Breadner 12 SB MOTOR HAND Ken Smith 12 KS FLOOR HAND Sal Mohammed 12 SM FLOOR HAND Tyler Salters 12 TS ROST ABOUT Peter Andrew 12 PW ROST ABOUT Garette Harley 12 GH WELL SITE COORDINATOR Steve Pringle 12 ST							
								CREW SAFETY DAYS 20 DRIVERS Chad Snyder Miller Andre Habel							

LICENCE NO
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
OPERATOR
NORTHROCK RESOURCES LTD
SURFACE LOCATION
L-71-64-30-125-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy

CONTRACTOR
AKITA DRILLING LTD
UNIQUE ID
1/10
SIGNATURE OF CONTRACTOR'S RIG MANAGER
Allan Vogt

DAILY CHECKS
(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (Using Check List)
(3) H2S Signs Posted if Required
(4) Well Logs & Stick Diagrams Posted
(5) Flow Lines Inspected
(6) BOP Daily Performance
(7) Visually Inspect BOPs - Flow Lines & Degreaser Lines
(1) Rig Site Hoses & Safety Meeting (on/over/month)
(2) CAODC Rig Safety Inspection Checklist (on/over/month)
(3) Mast Inspection before Raising or Lowering
(4) Crown Saver Checked
(5) Mast H2S Checked

YEAR 2005 MONTH 2 DAY 1
LAST CASING TUBING OR LINER
FUEL @ 08:00 HRS
TEMPERATURE 26
CURRENT CONDITIONS CLEAR
WIND DIRECTION NORTH
WIND SPEED 15
SEA CONDITION ICE

SPUD DATE 2005/01/23 TIME 13:15
RIG RELEASE TIME
WELL TYPE VERT
OPERATOR'S AFE 240348
KELLY BEHQ 60
CONTRACTOR'S JOB NUM
TOUR SHEET SERIAL NUM AKTA40_20050201_18
VENDOR SOFTWARE VERSION EDR_3-11_HF2 ETS 2.2



CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
GROUP A TEARDOWN	DRILL ACTUAL	REAMING	CORING	CONC H&D & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	OUT OF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN C&D & CEMENT	WAIT ON CEMENT	HIPPLE UP B.O.P	TEST S.O.P	DRILL/TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MEETING							
MORN	9.25			1.0	1.25	0.25			0.25																		12.00
DAY	11.5					0.25			0.25																		12.00
TOTAL	20.75			1.00	1.25	0.50			0.50																		24.00

DRILLING ASSEMBLY (AT END OF TOUR)
LENGTH 30
BIT NO. 2
MUD TYPE INVERT
WATER BASED ☐ OIL BASED ☒
TIME 600 1000 925 1048 D 10
DENSITY (kg/m3) 870 870 1048 1133 D 100
FUNNEL VISCOSITY 33 34
FLUID LOSS (cm3) 33 34
PH 68.1 76.0
PVT 68.1 76.0
MUD MATERIALS ADDED
PRODUCT AMOUNT UNIT
BASE OIL 27 M3
BENTONITE 150 15 SX
DYNAPR FINE 12 SX
LIME 15 SX
NEW 100 2 BBL
OPT-MUL 2 BBL
GILSONITE 10 SX
HOLE CONDITION
HOLE DRAG 2 UP 3 DOWN
TORQUE AT BOTTOM
FILL ON BOTTOM (m) .23
MUD RECORD
SOLIDS CONTROL
CENTRIFUGE
CIRCULATION PRESSURE KPa
PUMP NO. 1
PUMP NO. 2
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
970 12
1070 0 12
NOTES INSP DEADLINE ANCHOR BRAKE LINKAGE TEST CROWN SAVER
BLEW DOWN BOILERS 3 X 5 SEC
JSA S MAKE CONNECTION W/ TOP DRIVE WORK W/ INVERT
DRILLER SIGNATURE
Chad Snyder Miller
TIME / DEPTH

DRILLING CREW PAYROLL DATA
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
YEAR 2005 MONTH 2 DAY 1
OPERATOR
NORTHROCK RESOURCES LTD.
CONTRACTOR
AKITA DRILLING LTD.
RIG MANAGER
Allan Vogt
RIG NO. 40
PROVIDE
N.W.T. CAMP ☒ YES ☐ NO
NO SAFETY DAYS 19

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MW
DERRICK HAND		Tim Barrett	12		TS
DERRICK HAND		Ron Hall	12		RH
MOTOR HAND		Nathan Surinak	12		NS
FLOOR HAND		James McPherson	12		JM
FLOOR HAND		Andrew Sewi	12		AS

DRILLING ASSEMBLY (AT END OF TOUR)
LENGTH 30
BIT NO. 2
MUD TYPE INVERT
WATER BASED ☐ OIL BASED ☒
TIME 1300 1700 2100 1133 1382 D 110
DENSITY (kg/m3) 850 850 850 1133 1382 D 110
FUNNEL VISCOSITY 35 34 34
FLUID LOSS (cm3) 35 34 34
PH 66.7 65.4 63.7
P.V.T 66.7 65.4 63.7
MUD MATERIALS ADDED
PRODUCT AMOUNT UNIT
BENTONITE 150 20 SX
DYNAPR FINE 38 SX
GILSONITE 15 SX
LIME 15 SX
NEW 100 1 BBL
OPT-HVET 1 BBL
HOLE CONDITION
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)
MUD RECORD
SOLIDS CONTROL
CENTRIFUGE
CIRCULATION PRESSURE KPa
PUMP NO. 1
PUMP NO. 2
REDUCED PUMP SPEED
DEVIATION SURVEYS
DEPTH (m) DEVIATION DIRECTION
1170 0 11
1270 11
1370 18
NOTES VESUALLY INSPECT DEAD-LINE CLAMP BRAKES LINKAGE
CHOKE LINES/HIGH PRESS MUD LINES
REVIEW JSA S ON WORK W/ TOP DRIVE BOILER BLOW DOWN
TRANSFER INVERT FFARM
DRILLER SIGNATURE
Mike Wiebe
TIME / DEPTH

RATE SCHEDULE
REGULAR ☒ REPAIR ☐ INVERT ☒
CREW SAFETY DAYS
DRIVERS
Mike Wiebe
Nathan Surinak

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Chad Snyder Miller	12		CS
DERRICK HAND		Andre Habel	12		AH
DERRICK HAND		Sean Breadner	12		SB
MOTOR HAND		Ken Smith	12		KS
FLOOR HAND		Sali Mohammed	12		SM
FLOOR HAND		Tyler Salters	12		TMS
ROST ABOUT		Peter Andrew	12		PAW
ROST ABOUT		Garette Harley	12		GH
WELL SITE COORDINATOR		Steve Pringle	12		ST

LICENSE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

NORTHROCK RESOURCES LTD

SURFACE LOCATION

L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE

Kevin Amy

CONTRACTOR

AKITA DRILLING LTD

UNIQUE ID

1/10

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Alivn Vogt

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection: Weekly (Using Check List)

(3) H2S Signs Posted if Required

(4) Well Licence & Block Diagram Posted

(5) Flow Lines Bled

(6) BOPD Data Performed

(7) Visually Inspect BOPs: Flow Lines & Degasser Lines

(8) RIG Site Health & Safety Meeting (one/week/month)

(9) CAODC Rig Rule Inspection Checklist (one/week/month)

(10) Mast Inspection before Raising or Lowering

(11) Crown Block Checked

(12) Motor Oil Checked

YEAR

2005

MONTH

1

DAY

31

LAST CASING TUBING OR LINER

FUEL @ 01:00 HRS

TEMPERATURE

27

CURRENT CONDITIONS

CLEAR

WIND DIRECTION

CALM

ROAD CONDITION

ICE

DC TOP SIZE

171

DC TOP MASS

165

DC TOP GRADE

71

DC TOP T ANT O.D.

171

DC TOP TYPE THREAD

5" H90

DC TOP NO. OF JOINTS

24

DC TOP PLAP TYPE

PZ 9

DC TOP PLAP MANUFACTURER

GARDNER DENVER

DC TOP STROKE LENGTH

229

DP TOP SIZE

127

DP TOP MASS

38.1

DP TOP GRADE

E 75

DP TOP T ANT O.D.

102

DP TOP TYPE THREAD

4 1/2 IF

DP TOP NO. OF JOINTS

261

DP TOP PLAP TYPE

PZ 9

DP TOP PLAP MANUFACTURER

GARDNER DENVER

DP TOP STROKE LENGTH

229

DP BOTTOM SIZE

127

DP BOTTOM MASS

38.1

DP BOTTOM GRADE

X 95

DP BOTTOM T ANT O.D.

102

DP BOTTOM TYPE THREAD

4 1/2 IF

DP BOTTOM NO. OF JOINTS

139

DP BOTTOM PLAP TYPE

F 800

DP BOTTOM PLAP MANUFACTURER

EMSCO

DP BOTTOM STROKE LENGTH

229

SPUD DATE

2005/01/31

TIME

13:15

RIG RELEASE

TIME

NO

WELL TYPE

VERT

RE-ENTRY

NO

OPERATOR'S AFE

240346

KELLY BEGG

6.0

OF FUEL

CONTRACTOR'S JOB NUM

AKTA0_20050131_1B

TOUR SHEET SERIAL NUM

AKTA0_20050131_1B

VENDOR SOFTWARE VERSION

EDR_3-1_1_HF2 ETS 2.2

CAODC

PASON

CODE NO

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

TOTALS

SHALE SHAKER (S)

RENTALS / SERVICES

MORNING

DAY

GROUP & TEARDOWN

DRILL ACTUAL

REAMING

CORING

CONO MUD & CIRC

TRIPS

RIG SERVICE

REPAIR NO

OUT OFF ORLO LINE

DEV SURVEY

WIRELINE LOGS

RUN CSD & CEMENT

WAIT ON CEMENT

SHUTTLER UP & P

TEST & P

DRILL/STEM TEST

PLUG BACK

BOLEIZE CEMENT

FISHING

DR WORK

SAFETY MEETING

1st visit

2nd visit

3rd visit

4th visit

5th visit

6th visit

7th visit

8th visit

9th visit

10th visit

11th visit

12th visit

13th visit

14th visit

15th visit

16th visit

17th visit

18th visit

19th visit

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161st visit

162nd visit

163rd visit

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166th visit

167th visit

168th visit

169th visit

170th visit

171st visit

172nd visit

173rd visit

174th visit

175th visit

176th visit

177th visit

178th visit

179th visit

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181st visit

182nd visit

183rd visit

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201st visit

202nd visit

203rd visit

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206th visit

207th visit

208th visit

209th visit

210th visit

211st visit

212nd visit

213rd visit

214th visit

215th visit

216th visit

217th visit

218th visit

219th visit

220th visit

221st visit

222nd visit

223rd visit

224th visit

225th visit

226th visit

227th visit

228th visit

229th visit

230th visit

231st visit

232nd visit

233rd visit

234th visit

235th visit

236th visit

237th visit

238th visit

239th visit

240th visit

241st visit

242nd visit

243rd visit

244th visit

245th visit

246th visit

2

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Allyn Vogt

DAILY CHECKS (1) Daily Walk Around Inspection (2) Detailed Inspection Weekly (Using Check List) (3) Vibe Sore Pooled & Reported (4) Well License & Slack Diagrams Posted (5) Flare Lines Staked (6) BOP Drills Performed (7) Visually Inspect BOP-Flare Lines & Degasser Lines (8) Rig Site Health & Safety Meeting (once a month) (9) CAODC Rig Safety Inspection Checklist (once a month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Kite Checked

YEAR 2005 MONTH 1 DAY 30

RIG NO 40

FUEL @ 08:00 HRS 24491

TEMPERATURE 27

CURRENT CONDITIONS CLEAR

WIND DIRECTION CALM

WIND CONDITION ICE

DC/OP SIZE 171

DC 171

DP 127

DP 127

SHALE SHAKER (S) 1874

RENTALS / SERVICES 506145

MORNING TOUR FROM 0 TO 1200

DAY TOUR FROM 1200 TO 24

DRILLER Mike Wiebe

DERRICK HAND Tim Barrett

DERRICK HAND Ron Hall

MOTOR HAND Nathan Surnak

FLOOR HAND James McPherson

FLOOR HAND Andrew Sew

DRILLER Chad Snyder Miller

DERRICK HAND Andre Habel

DERRICK HAND Sean Breadner

MOTOR HAND Ken Smith

FLOOR HAND Sali Mohammed

FLOOR HAND Tyler Salters

ROST ABOUT Peter Andrew

ROST ABOUT Garette Harley

WELL SITE COORDINATOR Steve Pringle

[illegible]

LICENCE NO

WELL NAME & NO

OPERATOR

CONTRACTOR

SURFACE LOCATION

UNIQUE ID

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

DAILY CHECKS

DAILY CHECKS

YEAR

MONTH

DAY

LAST CASING TUBING OR ORDER

LAST CASING TUBING OR ORDER

Q.D. (mm)

M.H.G. (mm)

MASS (kg/m3)

GRADE

NO. OF JOINTS

TOTAL LENGTH

KB TO CSG HEAD

SET AT (m)

TEMPERATURE

DC TOP

DC OP

MASS

GRADE

MINIMUM TD

T. JNT O.D.

TYPE

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

SPUD DATE

TIME

TIME

TIME

WELL TYPE

RE-ENTRY

NO

NO

OPERATOR'S AFE

240346

OP FUEL

6.0

CONTRACTOR'S JOB NAME

AKTA40_20050126_18

VEHICLE SOFTWARE VERSION

EDR_3-1 1 HF2 ETS 2.2

PASON

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER (S)		RENTALS / SERVICES		MORNING	DAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	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	DRL WORK	SAFETY MEETING					CUT CON		eng boost	NO 2	TYPE DEBRICK	TYPE DEBRICK	MEGAJOULES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO.

SIZE

ADC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI

TD

MOC

LOC

BRO

GAGE

ODC

REASON PULLED

TOTAL RUN (m)

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

HRS RUN

12

HRS RUN

12

BOILER PH

10

BOILER PH

11

STACK TEMP

168

STACK TEMP

172

DRILLER SIGNATURE

Chad Snyder

SAFETY TOXIC

MDL

MAOP

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0

200

2.00

14

NIPPLE DOWN DIVERTER CUT CASING PUT ON BOWL NIPPLE UP

200

400

2.00

25

CUT CUND & CSG

400

930

5.50

26

INSTALL CSG BOWL

930

945

0.25

21

SAFETY MEETING W/CREW PRIOR TO NIPPLE UP B.O.P.S

945

1200

2.25

14

NIPPLE UP B.O.P

NOTES

BLEW ALL 3 BOILERS DOWN 3X5 SEC RUN 12 HR EACH

ISA ON NIPPLE DOWN DIVERTER/ISA ON NIPPLE UP B.O.P.S

SPECIAL EVENT

TIME / DEPTH

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO.

SIZE

ADC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

TI

TD

MOC

LOC

BRO

GAGE

ODC

REASON PULLED

TOTAL RUN (m)

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

HRS RUN

12

HRS RUN

12

BOILER PH

12

BOILER PH

12

STACK TEMP

168

STACK TEMP

172

DRILLER SIGNATURE

Mike Wiebe

SAFETY TOXIC

MDL

MAOP

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200

1700

5.00

14

NIPPLE UP B.O.P

1700

1715

0.25

21

SAFETY MEETING WITH LOCKHART

1715

2400

6.75

14

NIPPLE UP B.O.P

NOTES

BLEW BOILER 1,2,3 2-X EACH

RUN ALL 3 BOILERS 12 HR

SPECIAL EVENT

TIME / DEPTH

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG NO

RIG MANAGER

PROVIDE

CAMP

YES

NO

RIG SAFETY DAYS

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG NO

RIG MANAGER

PROVIDE

CAMP

YES

NO

RIG SAFETY DAYS

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MDW
DERRICK HAND		Tim Barrett	12		TB
DERRICK HAND		Ron Hall	12		RH
MOTOR HAND		Nathan Sunnak	12		NS
FLOOR HAND		James McPherson	12		JM
FLOOR HAND		Andrew Sewi	12		AS
WELL SITE COORDINATOR		Garry Legiehn	12		GL

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

15

DRIVERS

Mike Wiebe

Ron Hall

DAY TOUR

FROM

TO

SAFETY DAYS

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER

Chad Snyder

C.S

DERRICK HAND

Andre Habel

A.H

DERRICK HAND

Sean Breadner

S.B

MOTOR HAND

Ken Smith

K.S

FLOOR HAND

Sali Mohammed

S.M

FLOOR HAND

Tyler Saiters

T.M

ROST ABOUT

Peter Andrew

P.W

ROST ABOUT

Garette Harley

G.H

WELL SITE COORDINATOR

Steve Pringle

S.T

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

15

DRIVERS

Chad Snyder

Andre Habel

Well Name & NO: NORTHROCK et al Sah Cho L-71-64-30-125-30

Operator: NORTHROCK RESOURCES LTD

Contractor: AKITA DRILLING LTD

Surface Location: L-71-64-30-125-30

Signature of Operator's Representative: Kevin Amy

Signature of Contractor's Rig Manager: Allyn Vogt

Daily Checks: (1) Daily Well Around Inspection, (2) Detailed Inspection Weekly (Using Check List), (3) K25 Signs Posted & Requested, (4) Well Losses & Stick Diagram Posted, (5) Flow Lines Stated, (6) BOP Drills Performed, (7) Visually Inspected BOPs, Flow Lines & Degasser Lines

Drilling Crew Payroll Data: NORTHROCK et al Sah Cho L-71-64-30-125-30, 2005, 1, 27

Drilling Crew: BRENT WILLIAMS, TERRY SANDERSON, JERRY HAYMAN, KEN LAUCK, TYLER POTTS, WILLIAM ANDREW, GARRY LEGIEHN

Day Tour: 1200 to 24

Drilling Assembly: BIT, OLD, LENGTH, BIT RECORD, MUD RECORD, METRES DRILLED, TIME LOG

Drilling Assembly: BIT, OLD, LENGTH, BIT RECORD, MUD RECORD, METRES DRILLED, TIME LOG

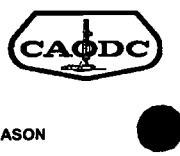
LICENCE NO
WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
OPERATOR
NORTHROCK RESOURCES LTD
SURFACE LOCATION
L-71-64-30-125-30
SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy

CONTRACTOR
AKITA DRILLING LTD
UNIQUE ID
1/10
SIGNATURE OF CONTRACTOR'S RIG MANAGER
Allyn Vogt

- DAILY CHECKS
- (1) Daily Walk Around Inspection
 - (2) Detailed Inspection Weekly (Using Check List)
 - (3) H2S Signs Positive if Required
 - (4) Well Location & Block Diagram Posted
 - (5) Flare Lines Staked
 - (6) BOP Drills Performed
 - (7) Visually Inspected BOP's Flare Lines & Degasser Lines
- (1) Rig Site Health & Safety Meeting (one/twice/month)
- (2) CADC Rig Safety Inspection Checklist (one/twice/month)
- (3) Mast Inspection before Raising or Lowering
- (4) Crown Saver Checked
- (5) Motor Kils Checked

YEAR 2005 MONTH 1 DAY 25
LAST CASING TUBING OR LINER
FUEL @ 08:00 HRS
18702
TEMPERATURE 19
CURRENT CONDITIONS CLEAR
WIND DIRECTION CALM
ROAD CONDITION ICE
O.D. (mm) 165
I.D. (mm) 71
MASS (kg/m3) 171
GRADE 5 H90
NO. OF JOINTS 24
PUMP TYPE PZ 9
PUMP MANUFACTURER GARDNER DENVER
STROKE LENGTH 229
O.D. (mm) 127
I.D. (mm) 38.1
MASS (kg/m3) 127
GRADE X 95
NO. OF JOINTS 168
PUMP TYPE F 800
PUMP MANUFACTURER EMSCO
STROKE LENGTH 229

SPUD DATE 2005/01/23
RIG RELEASE TIME 13 15
WELL TYPE VERT
REGISTRY NO
OPERATOR'S AFE 240346
KELLY BANG 60
CONTRACTOR'S JOB NUM 240346
TOUR SHEET SERIAL NUM AKTA40_20050125_18
VENDOR SOFTWARE VERSION EDR_3-1_1_HF2 ETS 2.2



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
RODUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CIG & CEMENT	WAIT ON CEMENT	HYPHLE UP BOP	TEST BOP	DRILL TEST	PLUG BACK	SOVERZE CEMENT	FISHING	DRL WORK	SAFETY MEETING						
MORN	7.25								0.5																	
DAY	10.75			0.25		0.25			0.75																	
TOTAL	18.00			0.25		0.25			1.25																	

NO	TYPE	DEBRICK	TYPE	DEBRICK	MEGAJOULES	MORNING	DAY
1	TOP		TOP			7722	551635
2	MIDDLE		MIDDLE				
3	BOTTOM		BOTTOM				

DRILLING CREW PAYROLL DATA

WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30
YEAR 2005 MONTH 1 DAY 25
OPERATOR NORTHROCK RESOURCES LTD.
CONTRACTOR AKITA DRILLING LTD.
RIG MANAGER Allyn Vogt
RIG NO 40
PROVINCE NWT
CAMP YES
RIG SAFETY DAYS 12

DRILLING ASSEMBLY (AT END OF TOUR)

NO. 1 BIT O.D. 44

BIT NO. 2A

SIZE 406

TIME 200

DENSITY (kg/m3) 1050

FUNNEL VISCOSITY 34

FLUID LOSS (cm3) 40

PH 8

DEPTH OUT (m) 360

DEPTH IN (m) 254

TOTAL DRILLED (m) 108.00

TOTAL HRS RUN 50

CUTTING STRUCTURE

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPT (m) 294

DEVIATION 2

DRILLER SIGNATURE Brent Williams

TIME / DEPTH

MORNING TOUR FROM 0 TO 1200

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Brent Williams	12		BW
DERRICK HAND		Terry Sanderson	12		TS
DERRICK HAND		Jerry Hayman	12		JH
MOTOR HAND		Ken Lauck	12		KL
LEASE HAND		Tyler Potts	12		TP
FLOOR HAND		William Andrew	12		WA
WELL SITE COORDINATOR		Garry Legiehn	12		GL

DRILLING ASSEMBLY (AT END OF TOUR)

NO. 1 BIT O.D. 44

BIT NO. 2A

SIZE 406

TIME 1200

DENSITY (kg/m3) 1040

FUNNEL VISCOSITY 45

FLUID LOSS (cm3) 9

PH 8

DEPTH OUT (m) 615

DEPTH IN (m) 254

TOTAL DRILLED (m) 361.00

TOTAL HRS RUN 11.25

CUTTING STRUCTURE

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM 5800

FILL ON BOTTOM (m)

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPT (m) 399

DEVIATION 1.5

DRILLER SIGNATURE Mike Wiebe

TIME / DEPTH

DAY TOUR FROM 1200 TO 24

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MW
DERRICK HAND		Tim Barrett	12		TB
DERRICK HAND		Ron Hall	12		RH
MOTOR HAND		Nathan Sunnak	12		NS
FLOOR HAND		Andrew Sawi	12		AS
FLOOR HAND		James McPherson	12		JM
ROST ABOUT		Peter Andrew	12		PA
ROST ABOUT		Shawn Etchinelle	12		SE
WELL SITE COORDINATOR		Steve Pringle	12		ST

LICENCE NO
 WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30
 OPERATOR
NORTHROCK RESOURCES LTD
 SURFACE LOCATION
L-71-64-30-125-30
 SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy

CONTRACTOR
AKITA DRILLING LTD
 UNIQUE ID
1/10
 SIGNATURE OF CONTRACTOR'S RIG MANAGER
Allyn Vogt

DAILY CHECKS
 (1) Daily Well Around Inspection
 (2) Detailed Inspection (Weekly / Using Check List)
 (3) H2S Signs Posted if Required
 (4) Well Location & Back Diagram Posted
 (5) Flow Lines Staked
 (6) BOP Daily Performed
 (7) Visually Inspect BOP's Flow Lines & Degasser Lines
 (1) Rig Site Health & Safety Meeting (onflow/mouth)
 (2) CAODC Rig Safety Inspection Checklist (onflow/mouth)
 (3) Mast Inspection before Raising or Lowering
 (4) Crown Block Check
 (5) Motor Vibe Checked

YEAR 2005 MONTH 1 DAY 24
 LAST CASING TURNING OR LINER
 Q.D. (mm) 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229
 M.V.D. (mm) 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229
 MASS (kg/m) 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229
 MAKE 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229
 GRADE 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229
 NO. OF JOINTS 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229
 TOTAL LENGTH 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229
 NO. TO CSD HEAD 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229
 SET AT (m) 171 165 171 5 H90 24 PZ 9 GARDNER DENVER 229

SPUD DATE 2005/01/23 TIME 13 15
 RIG RELEASE TIME
 WELL TYPE VERT REENTRY NO
 OPERATORS AFE 240346
 KELLY BSHG 60 OF FUEL
 CONTRACTORS JOB NUM
 TOUR SHEET SERIAL NUM AKTA0_20050124_1B
 VENDOR SOFTWARE VERSION EDR_3.1.1_HF2.ETS.22



PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
1	GROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CORING MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN C&G & CEMENT	WAIT ON CEMENT	HOPE UP BOP	TEST BOP	DRILL/TEST	FLUID BACK	SQUEEZE CEMENT	FISHING	OR WORK	SAFETY MEETING	BOP DIP	BLOW DOWN/WATER				
MORN		6.0			1.0	3.75	0.25			0.25												0.25	0.5				12.00
DAY		0.5			1.75	0.5																	9.25				12.00
TOTAL		6.50			2.75	4.25	0.25			0.25												0.25	0.50	9.25			24.00

SHALE SHAKER (S)	RENTALS / SERVICES	MORNING	DAY
NO 2 TYPE DEBRICK TYPE DEBRICK	MEGAJOULES	6316	550229
SCREEN CHANGED	NEW USED		
TOP	TOP		
MIDDLE	MIDDLE		
BOTTOM	BOTTOM		

DRILLING CREW PAYROLL DATA
 WELL NAME & NO
 NORTHROCK et al Sah Cho L-71-64-30-125-30
 OPERATOR NORTHROCK RESOURCES LTD. CONTRACTOR AKITA DRILLING LTD
 RIG MANAGER Allyn Vogt RIG NO. 40
 PROVINCE N.W.T. CAMP ☒ YES ☐ NO RIG SAFETY DAYS 11

NO. 1 DRILLING ASSEMBLY (AT END OF TOUR) LENGTH 44
 BIT NO. 1A 2A
 SIZE 444.5 406
 MUD TYPE H2O WATER BASED ☒ OIL BASED ☐
 DENSITY (kg/m3) 1030 1040 1050
 FUNNEL VISCOSITY 27 28 28
 FLUID LOSS (cm3) 27 28 28
 PH 4 22.2 8 8.7
 MUD MATERIALS ADDED
 PRODUCT AMOUNT UNIT
 SAWDUST 10 SX
 GEL 47 SX
 DRILLING DETERGENT 1 PAIRS
 CUTTING STRUCTURE
 HOLE CONDITION
 HOLE DRAG
 TORQUE AT BOTTOM
 FILL ON BOTTOM (m)
 WT OF D.C. 30
 WT OF STRING 40

TIME LOG
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 0 600 6 00 2 DRILL ACTUAL F/12 254
 600 615 0 25 22 BOP DRILL HELD DISCUSS W/ CREW ON USE W/ DIVERTER
 615 630 0 25 10 DEVIATION SURVEY
 630 730 1 00 5 CONDITION MUD & CIRC
 730 800 0 50 23 RIG UP TO CIRC PUMP#3 & BLOW BACK KELLY
 800 1015 2 25 8 POOH
 1015 1030 0 25 7 RIG SERVICE
 1030 1100 0 50 8 CHANGE BHA & BIT
 1100 1200 1 00 8 R/H
 NOTES INSP DEADLINE ANCHOR BRAKE LINKAGE
 TRIP MUD CAL = 4.91 MEAS = 7.52 OFF = 2.61
 JSA- MAKING CONNECTION/HANDLING TONGS/HOIST D.P. TO FLOOR/SURVEYS/BOILER
 SHUT IN/RIG SERVICE
 DRILLER SIGNATURE Brent Williams
 SPECIAL EVENT
 TIME / DEPTH

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Brent Williams	12		SW
DERRICK HAND		Terry Sanderson	12		TS
DERRICK HAND		Jerry Hayman	12		JH
MOTOR HAND		Ken Lauck	12		KL
LEASE HAND		Tyler Potts	12		TP
FLOOR HAND		William Andrew	12		WA
WELL SITE COORDINATOR		Garry Legiehn	12		GL

NO. 2 DRILLING ASSEMBLY (AT END OF TOUR) LENGTH 44
 BIT NO. 2A
 SIZE 406
 MUD TYPE WATER WATER BASED ☒ OIL BASED ☐
 DENSITY (kg/m3) 1040 1040
 FUNNEL VISCOSITY 27 28
 FLUID LOSS (cm3) 27 28
 PH 8 8.7
 MUD MATERIALS ADDED
 PRODUCT AMOUNT UNIT
 SAWDUST 28 SX
 CAUSTIC SODA 1 SX
 GEL 10 SX
 CELLOPHANE 8 SX
 DYNAFR FINE 10 SX
 CUTTING STRUCTURE
 HOLE CONDITION
 HOLE DRAG
 TORQUE AT BOTTOM
 FILL ON BOTTOM (m)
 WT OF D.C. 30
 WT OF STRING 40

TIME LOG
 DETAILS OF OPERATIONS IN SEQUENCE & REMARKS
 1200 1230 0 50 6 R/H
 1230 1330 1 00 5 CONDITION MUD & CIRC FOR LOSE CIRC
 1330 1345 0 25 5 SPOT LCM PILL
 1345 1745 4 00 24 WAIT ON WATER
 1745 1800 0 25 5 SPOT LCM PILL
 1800 1845 0 75 24 WAIT ON WATER
 1845 1900 0 25 5 SPOT LCM PILL
 1900 2330 4 50 24 WAIT ON WATER
 2330 2400 0 50 2 DRILL ACTUAL F/256-267
 2400
 NOTES INSP DEAD LINE ANCHOR BRAKE LINKAGE & TEST CROWN SAVER
 PUMP#3 100 STKS
 BOILER #1 & #3 ON LINE BLOW DOWN 1X
 JSA S/POOH/HIGH WTOP DRIVE TONG INSPECTION /DOG COLLAR USE/RACK BACK COLLARS
 DRILLER SIGNATURE Mike Wiebe
 SPECIAL EVENT
 TIME / DEPTH

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Mike Wiebe	12		MDW
DERRICK HAND		Tim Barrett	12		TB
DERRICK HAND		Ron Hall	12		RH
MOTOR HAND		Nathan Sunnak	12		NS
FLOOR HAND		Andrew Sewn	12		AS
FLOOR HAND		James McPherson	12		JM
ROST ABOUT		Peter Andrew	12		PAW
ROST ABOUT		Shawn Etchnelle	12		SES
WELL SITE COORDINATOR		Steve Pringle	12		ST

LICENCE NO WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30 UNIQUE ID 1/10

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Allyn Vogt

DAILY CHECKS (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 Tested (6) BOP Drills Performed (7) Visually Inspect BOPs-Flare Lines & Degasser Lines (8) RIG State Health & Safety Meeting (once/month) (9) CAODC Rig Safety Inspection Checklist (once/month) (10) Mast Inspection before Raising or Lowering (11) Crown Saver Checked (12) Motor Kolls Checked

YEAR 2005 MONTH 1 DAY 23

LAST CASING TUBING OR LINER

Q.D. (mm) MINED (mm) MASS (g/m) MAKE GRADE NO. OF JOINTS TOTAL LENGTH NO TO CIRC HEAD SET AT (m)

TEMPERATURE 22 00/01 00/02 00/03 00/04 00/05 00/06 00/07 00/08 00/09 00/10 00/11 00/12 00/13 00/14 00/15 00/16 00/17 00/18 00/19 00/20 00/21 00/22 00/23 00/24 00/25 00/26

SPUD DATE 2005/01/23 TIME 13.15

RIG RELEASE TIME

WELL TYPE RE-ENTRY

OPERATOR'S AFE 240346

KELLY BSHD OF FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM AKTA00_20050123_1B

VENDOR SOFTWARE VERSION EDR_3-1-1_HF2 ETS 2.2



PASON

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
NO	7.0				1.0	3.0									0.75												12.00
MORN																											50
DAY		9.0						1.5		0.25					0.75	0.25											12.00
TOTAL	7.00	9.00			1.00	3.00		1.50		0.25					0.75	1.00											24.00

DRILLING CREW PAYROLL DATA

WELL NAME & NO NORTHROCK et al Sah Cho L-71-64-30-125-30 YEAR 2005 MONTH 1 DAY 23

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

RIG MANAGER Allyn Vogt RIG NO. 40

PROVINCE NWT CAMP YES NO RIG SAFETY DAYS 10

MORNING TOUR FROM 0 TO 1200 INJURED

CREW	SOC INS. NO	NAME	HRS	YES	NO
DRILLER		Brent Williams	12		BW
DERRICK HAND		Terry Sanderson	12		TS
DERRICK HAND		Jerry Hayman	12		JH
MOTOR HAND		Ken Lauck	12		KL
LEASE HAND		Tyler Potts	12		TP
FLOOR HAND		William Andrew	12		WA
WELL SITE COORDINATOR		Garry Legiehn	12		GL

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS DRIVERS Brent Williams Terry Sanderson

10

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH 31.34

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0 600 6.00 1 PREP FOR SPUD

600 900 3.00 6 MAKE UP BHA TO SPUD

900 1000 1.00 1 RIG UP SAFETY LINES & TEST FLARE STACK

1000 1100 1.00 5 CIRC MUD SYSTEM CHECK ALL LINE FOR LEAKS

1100 1115 0.25 23 WELD SHAKER TROUGH

1115 1200 0.75 15 TEST B O P PRESSURE TEST

NOTES INSP DEADLINE ANCHOR BRAKE LINKAGE

RUN BOILER # 2 & BOILER #3

JSA-RU DRILL COLLARS/CONN HYD LINES & TESTWORK @ HEIGHTS/INSTALL ESCAPE LINE/

MOVE BIT F/ STORAGE TO FLOOR / HANDLING & LIFT OBJECTS

DRILLER SIGNATURE Brent Williams

TIME / DEPTH

SAFETY TOPIC MBL MDP

DRILL OUT

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH 122.81

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200 1245 0.75 14 ADJUST B O P S

1245 1300 0.25 15 TEST B O P PRESSURE TEST DIVERTER 1000Psi OK

1300 1315 0.25 23 NIPPLE UP INSPECTION

1315 1530 2.25 2 DRILL ACTUAL F10M-31M

1530 1615 0.75 8 REPAIR RIG PUMP #2 DOWN

1615 2000 3.75 2 DRILL ACTUAL F31M-58M

2000 2045 0.75 8 REPAIR RIG

2045 2345 3.00 2 DRILL ACTUAL F58M-122

2345 2400 0.25 10 DEVIATION SURVEY

2400

NOTES INSP-DEAD LINE ANCHOR BRAKE LINKAGE & TEST CROWN SAVER

RUN BOILER # 2 AND BOILER #3

JSA SPICK UP 9" D CHANDLING TONGS

DRILLER SIGNATURE Mike Wiebe

TIME / DEPTH

SAFETY TOPIC MBL MDP

PRE SPUD

LICENCE NO

WELL NAME & NO

OPERATOR

NORTHROCK et al Sah Cho L-71-64-30-125-30

SURFACE LOCATION

L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE

Kevin Amy

CONTRACTOR

AKITA DRILLING LTD

UNIQUE ID

1/10

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Allyn Vogt

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) H2S Signs Posted & Required

(4) Well Lenses & Sight Diagrams Posted

(5) Flare Lines Staked

(6) BOP Drills Performed

(7) Visually Inspect BOP's Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (one/fortnight)

(2) CAODC Rig Safety Inspection Checklist (one/month)

(3) Mast Inspection before Raising or Lowering

(4) Crown Saver Checked

(5) Motor Kils Checked

YEAR

2005

MONTH

1

DAY

22

LAST CASING TURNING OR LINER

Q.D. (mm)

MIN I.D. (mm)

MASS (kg/m3)

GRADE

NO. of JOINTS

TOTAL LENGTH

KB TO CSG HEAD

SET AT (m)

Q.D. (mm)

MIN I.D. (mm)

MASS (kg/m3)

GRADE

NO. of JOINTS

TOTAL LENGTH

KB TO CSG HEAD

SET AT (m)

Q.D. (mm)

MIN I.D. (mm)

MASS (kg/m3)

GRADE

NO. of JOINTS

TOTAL LENGTH

KB TO CSG HEAD

SET AT (m)

SPUD DATE

TIME

WELL RELEASE

TIME

WELL TYPE

RE-ENTRY

OPERATORS AFE

240346

KELLY BSHD

OP FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM

AKTA40_20050122_1B

VENDOR SOFTWARE VERSION

EDR_3-1.1_HF2 ETS 2.2

CAODC

PASON

CODE NO

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

TOTALS

NO

2

TYPE

DERRICK

TYPE

DERRICK

MEGAJOULES

MORNING

5496

DAY

549409

RIGUP & TEARDOWN

DRILL ACTUAL

REMAINING

CORING

CORING MUD & CIRC

TRIPS

RIG SERVICE

REPAIR RIG

CUT OFF DRILL LINE

DEV SURVEY

WIRELINE LOGS

RUN CSG & CEMENT

WAIT ON CEMENT

NIPPLE UP BOP

TEST BOP

DRILLSTEM TEST

PLUG BACK

SQUEEZE CEMENT

FISHING

DR. WORK

SAFETY MEETING

12.0

5.0

17.00

1.0

6.00

1.00

6.00

24.00

SHALE SHAKER (S)

RENTALS / SERVICES

MORNING

5496

DAY

549409

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

Q.D.

BIT NO.

SIZE

WCC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRG

OAGE

ODC

REASON PULLED

TOTAL RUN HRS

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0

800

8.00

14

800

1200

4.00

14

NIPPLE UP DIVERTER & BOUGH LINES, FLARE & DEGASSER LINES

NIPPLE UP HCR,KILL LINE&FLARE LINE TO FLRSRE TANK

NOTES

INSP DEADLINE ANCHOR&BRAKE LINKAGE.

ISA-NIPPLE UP DIVERTER

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MEH

WACP

NIPPLE UP DIVERTER

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

Q.D.

BIT NO.

SIZE

WCC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRG

OAGE

ODC

REASON PULLED

TOTAL RUN HRS

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200

1300

1.00

14

1300

1900

6.00

22

1900

2000

1.00

21

2000

2400

4.00

14

NIPPLE UP FLARE LINES

WELD MUD TANKS TOP DRIVE PREMIX

SAFETY MEETING BOTH CREWS PRESPUD

NIPPLE UP FLARE LINES & FLARE TANK

NOTES

INSP DEAD LINE ANCHOR&BRAKE LINKAGE

ISA-NIPPLE UP DIVERTER&LOCK EQUIPMENT

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MEH

WACP

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

Brent Williams

Terry Sanderson

DAY TOUR

FROM

1200

TO

24

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER

Mike Wiebe

12

MDW

DERRICK HAND

Tim Barrett

12

TB

DERRICK HAND

Ron Hall

12

RH

MOTOR HAND

Nathan Surinak

12

NS

FLOOR HAND

Andrew Sew

12

AS

FLOOR HAND

James McPherson

12

JM

ROST ABOUT

Peter Andrew

12

PW

WELL SITE COORDINATOR

Steve Pringle

12

ST

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

Peter Andrew

[illegible]

[illegible]

[illegible]

LICENCE NO

WELL NAME & NO

OPERATOR

SURFACE LOCATION

SIGNATURE OF OPERATOR'S REPRESENTATIVE

NORTHROCK et al Sah Cho L-71-64-30-125-30

NORTHROCK RESOURCES LTD

L-71-64-30-125-30

Kevin Amy

CONTRACTOR

UNIQUE ID

SIGNATURE OF CONTRACTOR'S RIG MANAGER

AKITA DRILLING LTD

1/10

Alvin Vogt

DAILY CHECKS

YEAR

MONTH

DAY

LAST CASING TUBING OR LINER

Q.D. (mm)

MIN ID (mm)

MASS (kg/m3)

MAKE

GRADE

NO. OF JOINTS

TOTAL LENGTH

KB TO CSG HEAD

SET AT (m)

SPUD DATE (H)

TIME

NO RELEASE

TIME

WELL TYPE

RE-ENTRY

OPERATOR'S AFE

240346

KELLY BSHO

OF FUEL

CONTRACTOR'S JOB NO

AKTA40_20050118_1B

TOUR SHEET SERIAL NUM

AKTA40_20050118_1B

VEHICLE SOFTWARE VERSION

EDR 3-1-0_HF2 ETS 2.2

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) H2S Signs Posted if Required

(4) Well License & Back Diagram Posted

(5) Flare Lines Checked

(6) BOP Drills Performed

(7) Visually Inspect BOPs, Flare Lines & Depressor Lines

(1) Rig Site Health & Safety Meeting (on arrival/month)

(2) CACDC Rig Safety Inspection Checklist (on arrival/month)

(3) Meet Inspection before Raising or Lowering

(4) Crown Sealer Checked

(5) Motor 10Is Checked

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

DOF

DC/DP

MASS

GRADE

MINIMUM ID

T JNT O.D.

TYPE

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH



PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CONO MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CIG & CEMENT	WAIT ON CEMENT	HOPEL UP B.O.P.	TEST B.O.P.	DRILLISTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR WORK	SAFETY MEETING							
MORN	11.75																			0.25							12.00
DAY	12.0																										12.00
TOTAL	23.75																			0.25							24.00

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO.

SIZE

IADC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRO

QAGE

ODC

REASON PULLED

TOTAL RUN HRS

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D.R.C.

RPM

WOB

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

HRS RUN

0

HRS RUN

12

BOILER PH

BOILER PH

10

STACK TEMP

STACK TEMP

210

DRILLER SIGNATURE

Chad Snyder

SPECIAL EVENT

TIME / DEPTH

SAFETY TONE

MSL

MAP

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0

800

8.00

1

RIG UP

800

815

0.25

21

SAFETY MEETING

815

1200

3.75

1

RIG UP

NOTES

DRILLING CREW PAYROLL DATA						
WELL NAME & NO	YEAR	MONTH	DAY	OPERATOR	CONTRACTOR	RIG NO
NORTHROCK et al Sah Cho L 71-64-30-125-30	2005	1	18	NORTHROCK RESOURCES LTD	AKITA DRILLING LTD	40
RIG MANAGER	Alvin Vogt					
PROVIDER	NLW T					
CAMP	YES	NO				
RIG SAFETY DAYS	5					
MORNING TOUR						
CREW	SOC INS NO	NAME	HRS	YES	NO	INJURED
DRILLER		Chad Snyder	12			CS
DERRICK HAND		Andre Habel	12			AH
DERRICK HAND		Sean Breadner	12			SB
MOTOR HAND		Nathan Curlett	12			NC
FLOOR HAND		Tyler Salters	12			TMS
FLOOR HAND		Sali Mohammed	12			SM
WELL SITE COORDINATOR		Garry Legiehn	12			GL

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO.

SIZE

IADC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRO

QAGE

ODC

REASON PULLED

TOTAL RUN HRS

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D.R.C.

RPM

WOB

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

HRS RUN

0

HRS RUN

12

BOILER PH

BOILER PH

10.5

STACK TEMP

STACK TEMP

180

DRILLER SIGNATURE

Mike Wiebe

SPECIAL EVENT

TIME / DEPTH

SAFETY TONE

MSL

MAP

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1200

1800

6.00

1

RIG UP

1800

1900

1.00

1

RAISE DERRICK

1900

2400

5.00

1

RIG UP

NOTES

RATE SCHEDULE						
RATE SCHEDULE	REGULAR	REPAIR	INVERT	DRIVERS	INJURED	INJURED
X						
CREW SAFETY DAYS						
5						
DAY TOUR						
CREW	SOC INS NO	NAME	HRS	YES	NO	INJURED
DRILLER		Brent Williams	12			BW
DERRICK HAND		Terry Sanderson	12			TS
DERRICK HAND		Jerry Hayman	12			JH
MOTOR HAND		Ken Lauck	12			KL
DRILLER		Mike Wiebe	12			MDW
DERRICK HAND		Tim Barrett	21			TB
MOTOR HAND		Nathan Sunnak	12			NS
FLOOR HAND		Allian Medacho	12			AM
FLOOR HAND		Andrew Sewi	12			AS
WELL SITE COORDINATOR		Steve Pringle	12			ST

LICENCE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

NORTHROCK RESOURCES LTD

SURFACE LOCATION

L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE

Kevin Amy

CONTRACTOR

AKITA DRILLING LTD

UNIQUE ID

1/10

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Allyn Vogt

DAILY CHECKS

(1) Daily Well Around Inspection

(2) Disturbed Inspection Weekly (Using Check List)

(3) H2S Signs Posted if Required

(4) Well Leases & Back Diagram Posted

(5) Flow Lines Stated

(6) BOP Drive Performed

(7) Visually Inspect BOPs- Flow Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (onshore/underground)

(2) CAODC Rig Safety Inspection Checklist (onshore/underground)

(3) Mast Inspection before Raising or Lowering

(4) Crown Sewer Checked

(5) Motor Kills Checked

OPERATOR

YEAR

MONTH

DAY

LAST CASING TUBING ON LINER

OD (mm)

WVLD (mm)

MASS (kg/m3)

NAME

GRADE

NO. OF JOINTS

TOTAL LENGTH

NO. TO CSG HEAD

SET AT (m)

RIG NO.

40

FUEL @ 00.00 HRS

BOILER

TEMPERATURE

DC/DP

DC/DP

MASS

GRADE

MINIMUM I/D

T. JKT O.D.

TYPE

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

WELL TYPE

TIME

RE-ENTRY

OPERATOR'S AFE

240346

CONTRACTOR'S JOB NUM

AKTA40_20050117_1B

TOUR SHEET SERIAL NUM

AKTA40_20050117_1B

VENDOR SOFTWARE VERSION

EDR 3-10_HF2 ETS 2.2

SPUD DATE

RIG RELEASE

WELL TYPE

OPERATOR'S AFE

KELLY BONG

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM

VENDOR SOFTWARE VERSION

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

RIG SAFETY DAYS

INJURIES

DRILLING CREW PAYROLL DATA

WELL NAME & NO

LICENCE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

NORTHROCK RESOURCES LTD

SURFACE LOCATION

L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE

Kevin Amy

CONTRACTOR

AKITA DRILLING LTD

UNIQUE ID

1/10

SIGNATURE OF CONTRACTOR'S RIG MANAGER

Alvin Vogt

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) 1425 Signs Posted & Recensed

(4) Well Location & Block Diagram Posted

(5) 1 Flame Lines Station

(6) BOP Drills Performed

(7) Visually Inspect BOPs- Flame Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (on/offshore/month)

(2) CAODC Rig Safety Inspection Checklist (on/offshore/month)

(3) Mast Inspection before Raising or Lowering

(4) Crown Sealer Checked

(5) Motor Kils Checked

YEAR

2005

MONTH

1

DAY

16

LAST CASING TUBING OR LINER

RIG NO

40

FUEL @ 00:00 HRS

BOILER

TEMPERATURE

DOF

DC/DP

DOF

DC/DP

MASS

GRADE

MINIMUM ID

T HT

OD

TYPE

THREAD

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

Q.D. (mm)

MIN ID (mm)

MASS (kg/m3)

HAKE

GRADE

NO. OF JOINTS

TOTAL LENGTH

KB TO CSG HEAD

SET AT (m)

SPUD DATE

TIME

RIG RELEASE

TIME

WELL TYPE

RE-ENTRY

OPERATOR'S AFE

240346

KELLY BEAG

OP FUEL

CONTRACTOR'S JOB NUM

AKTAD_20060116_1B

FOUR SHEET SERIAL NUM

AKTAD_20060116_1B

VEHICLE SOFTWARE VERSION

EDR_3-10_HF2 ETS 22

CAODC

PASON

CODE NO.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

TOTALS

RIEUP & TEARDOWN

DRILL ACTUAL

REAMING

CORING

CONO MUD & CIRC

TRIPS

RIG SERVICE

REPAIR RIG

OUT OFF DRILLO LINE

DEV SURVEY

WIRELINE LOGS

RUN CSG & CEMENT

WAIT ON CEMENT

AMPLE UP BOP

TEST BOP

DRILLISTEM TEST

PLUG BACK

SQUEEZE CEMENT

FISHING

DIR WORK

SAFETY MEETING

SHALE SHAKER (S)

NO

TYPE

TYPE

SCREENS CHANGED

NEW USED

TOP

TOP

MIDDLE

MIDDLE

BOTTOM

BOTTOM

RENTALS / SERVICES

MORNING

DAY

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

Q.D

BIT NO.

SIZE

MAC 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

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D.R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

800

1

RIG UP LAY MATTING PIN SUB & DERRICK FROM 08:00 20:00 HR.

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

1

2

HRS RUN

0

HRS RUN

0

BOILER PH

BOILER PH

STACK TEMP

STACK TEMP

DRILLER SIGNATURE

Chad Snyder

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MDL

MMCP

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

Q.D

BIT NO.

SIZE

MAC 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

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D.R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

2000

DRIVE CREW TRUCK FROM 08:00 20:00 HR.

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

BOILERS

1

2

HRS RUN

0

HRS RUN

0

BOILER PH

BOILER PH

STACK TEMP

STACK TEMP

DRILLER SIGNATURE

Brand Williams

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MDL

MMCP

DRILLING CREW PAYROLL DATA

WELL NAME & NO.

NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR

2005

MONTH

1

DAY

16

OPERATOR

NORTHROCK RESOURCES LTD.

CONTRACTOR

AKITA DRILLING LTD.

RIG NO.

40

RIG MANAGER

Alvin Vogt

PROVIDE

CAMP

X

YES

NO

RIG SAFETY DAYS

3

N.W.T

MORNING TOUR

FROM

800

TO

2000

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER

Mike Wiebe

12

MDW

DRILLER

Chad Snyder

12

CS

DERRICK HAND

Andre Habel

12

AH

DERRICK HAND

Sean Breadner

12

SB

DERRICK HAND

Tim Barrett

12

TB

DERRICK HAND

Jerry Hayman

12

JH

MOTOR HAND

Nathan Curlett

12

NC

MOTOR HAND

Ken Lauck

12

KL

FLOOR HAND

Tyler Salters

12

TMS

FLOOR HAND

Sali Mohammed

12

SM

WELL SITE COORDINATOR

Garry Legiehn

12

GL

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

3

DRIVERS

DAY TOUR

FROM

2000

TO

24

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

DRILLER

Brent Williams

12

BW

DERRICK HAND

Terry Sanderson

12

TS

MOTOR HAND

Nathan Surinak

12

NS

FLOOR HAND

Steve Pnngle

12

ST

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

3

DRIVERS

Form content including headers, tables, and sections like NORTHROCK et al Sah Cho L-71-64-30-125-30, DAILY CHECKS, OPERATOR, CONTRACTOR, SURFACE LOCATION, SIGNATURE OF OPERATOR'S REPRESENTATIVE, SIGNATURE OF CONTRACTOR'S RIG MANAGER, DRILLING CREW PAYROLL DATA, and various data entry fields.

OPERATOR
NORTHROCK RESOURCES LTD

SURFACE LOCATION
L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE
Kevin Amy

WELL NAME & NO
NORTHROCK et al Sah Cho L-71-64-30-125-30

CONTRACTOR
AKITA DRILLING LTD

SIGNATURE OF CONTRACTOR'S RIG MANAGER
Alvin Vogt

DAILY CHECKS
(1) Daily Walk Around Inspection
(2) Detailed Inspection - Weekly (Using Check List)
(3) H2S Signs Posted & Required
(4) Well License & Block Diagram Posted
(5) Flare Lines Started
(6) BOP Drills Performed
(7) Visually Inspect BOPs- Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (one/one month)
(2) CADC Rg Safety Inspection Checklist (one/one month)
(3) Initial Inspection before Running or Lowering
(4) Crown Saver Checked
(5) Motor Ribs Checked

YEAR 2005 MONTH 1 DAY 14

RIG NO. 40

FUEL @ 01:00 HRS

BOILER

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

ROAD CONDITION

QPS

SE

LAST CASING TUBING ON LIVER

Q.D. (mm)

MIN ID. (mm)

MASS (kg/m3)

MAKE

GRADE

NO. OF JOINTS

TOTAL LENGTH

NO. TO CSG HEAD

SET AT (m)

MASS

GRADE

MINIMUM ID.

T. AT O.D.

TYPE

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

SPUD DATE

TIME

RIG RELEASE

TIME

WELL TYPE

REENTRY

OPERATOR'S AFE 240346

KELLY BSHG

OP FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM AKTA40_20050114_1B

VENDOR SOFTWARE VERSION EDR_3-1-0_HF2 ETS 2.2

CAADC

PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS
NOON																											4 00
DAY																											4 00
TOTAL																											4 00

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO.

SIZE

WOC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRO

GAGE

ODC

REASON RULED

TOTAL RUN (HRS)

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

DRILLER SIGNATURE

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MDH

WACP

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

NOTES

BOILERS

HRS RUN

0

HRS RUN

0

BOILER PH

BOILER

STACK TEMP

STACK

DRILLER SIGNATURE

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MDH

WACP

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT NO.

SIZE

WOC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRO

GAGE

ODC

REASON RULED

TOTAL RUN (HRS)

DRILL PIPE STANDS

DRILL PIPE SINGLES

KELLY DOWN

TOTAL

WT OF D.C.

WT OF STRING

DRILLER SIGNATURE

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MDH

WACP

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

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

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m)

DEVIATION

DIRECTION

NOTES

BOILERS

HRS RUN

0

HRS RUN

0

BOILER PH

BOILER

STACK TEMP

STACK

DRILLER SIGNATURE

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MDH

WACP

DRILLING CREW PAYROLL DATA									
WELL NAME & NO		YEAR		MONTH		DAY			
NORTHROCK et al Sah Cho L 71-64-30-125-30		2005		1		14			
OPERATOR		CONTRACTOR		RIG NO.		RIG MANAGER		RIG SAFETY DAYS	
NORTHROCK RESOURCES LTD		AKITA DRILLING LTD.		40		Alvin Vogt		1	
PROVINCE		CAMP		YES		NO		RIG SAFETY DAYS	
NWT								1	
MORNING TOUR		FROM		TO		HOURS		HOURS	
		800		2000					
CREW	SOC INS. NO	NAME		HRS		YES		NO	
DRILLER		Mike Wiebe		12				MDW	
DRILLER		Chad Snyder		12				CS	
DERRICK HAND		Andre Habel		12				AH	
DERRICK HAND		Sean Breadner		12				SB	
DERRICK HAND		Tim Barrett		12				TB	
DERRICK HAND		Jerry Hayman		12				JH	
MOTOR HAND		Nathan Curlett		12				NC	
MOTOR HAND		Ken Lauck		12				KL	
FLOOR HAND		Tyler Salters		12				TMS	
FLOOR HAND		Sali Mohammed		12				SM	
WELL SITE COORDINATOR		Garry Legiehn		12				GL	
RATE SCHEDULE									
REGULAR									
REPAIR									
INVERT									
CREW SAFETY DAYS									
1									
DAY TOUR		FROM		TO		HOURS		HOURS	
		2000		24					
CREW	SOC INS. NO	NAME		HRS		YES		NO	
DRILLER		Brent Williams		12				BW	
DERRICK HAND		Terry Sanderson		12				TS	
MOTOR HAND		Nathan Sunnak		12				NS	
FLOOR HAND		Steve Pringle		12				ST	
RATE SCHEDULE									
REGULAR									
REPAIR									
INVERT									
CREW SAFETY DAYS									
1									

LICENCE NO. WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE Kevin Amy SIGNATURE OF CONTRACTOR'S RIG MANAGER Allyn Vogt

DAILY CHECKS

YEAR 2005 MONTH 1 DAY 13

RIG NO. 40

FUEL @ 08:00 HRS

Q.D. (mm) 244.5 222.6 53.6 IPSCO 244.5 220.6 59.5 IPSCO

GRADE J55 38 512.28 5.44 541 J55 3 30 30

NO. OF JOINTS TOTAL LENGTH 30 541

NO. TO CSD HEAD SET AT (in) 30

SPUD DATE TIME

RIG RELEASE TIME

WELL TYPE VERT REENTRY

OPERATOR'S AGE 240346

KELLY ROAD 6.44 OF FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM AKTA40_20050113_18

VEHICLE SOFTWARE VERSION EDR_3-1-0_HF2 ETS 2.2



PASON

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER (S)	REPAIRS / SERVICES	MORNING	DAY
GROUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & OIL	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSD & CEMENT	WAIT ON CEMENT	APPLE UP B.O.P.	TEST B.O.P.	DRILL TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR WORK	SAFETY MEETING											
MORN																															
DAY																															
TOTAL																															

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

DRILLER SIGNATURE

Chad Snyder

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

DRILLER SIGNATURE

Brant Williams

DRILLING CREW PAYROLL DATA

WELL NAME & NO. NORTHROCK et al Sah Cho L-71-64-30-125-30

YEAR 2005 MONTH 1 DAY 13

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

RIG NO. 40

PROVINCE N.W.T. CAMP YES NO

RIG SAFETY DAYS 209

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		Chad Snyder	12		CS
DERRICK HAND		Terry Sanderson	12		TS

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

59

DAY TOUR

FROM 1200 TO 2400

INJURIES

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		Brant Williams	12		BW
DERRICK HAND		Jerry Hayman	12		JH
DRILLER		Mike Wiebe	12		MW
DERRICK HAND		Tim Barrett	12		TB
MOTOR HAND		Nathan Sunnak	12		NS
FLOOR HAND		Steve Pringle	12		ST

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS

59

[illegible]

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

NORTHROCK RESOURCES LTD

SURFACE LOCATION

L-71-64-30-125-30

SIGNATURE OF OPERATOR'S REPRESENTATIVE

CONTRACTOR

AKITA DRILLING LTD

UNIQUE ID

1 / 10

SIGNATURE OF CONTRACTOR'S RIG MANAGER

DAILY CHECKS

(1) Daily Walk Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) H2S Signs Posted & Reported

(4) Well License & Stock Diagram Posted

(5) Flare Lines Staked

(6) BOP Drills Performed

(7) Visually Inspect BOP's- Flare Lines & Degasser Lines

(1) Rig Site Health & Safety Meeting (one/week/month)

(2) CAODC Rig Safety Inspection Checklist (one/month)

(3) Mast Inspection before Raising or Lowering

(4) Crown Shear Checked

(5) Motor Kils Checked

YEAR

2005

MONTH

1

DAY

11

LAST CASING

244 5

222.6

53.6

IPSCO

J55

38

512.28

544

541

FUEL @ 08:00 HRS

244 5

220.6

59.5

IPSCO

J55

3

30

30

TEMPERATURE

30

DC / DP

171

157

DC

69

171

5" H90

24

PZ-9

GARDNER DENVER

229

CURRENT CONDITIONS

CHSE

WIND DIRECTION

CALM

ROAD CONDITION

SLIPPERY

DP

127

16.25

E75

127

4.5 F

261

PZ-9

GARDNER DENVER

229

SHALL SHAKER (S)

MENTALS / SERVICES

MORNING

DAY

NO

TYPE

DECK

MEGAJOULES

5446

549359

SCREENS CHANGED

NEW

USED

LOADER

TOP

110

MIDDLE

140

MIDDLE

AUTO DIGGER & SIDE KICK

BOTTOM

110

BOTTOM

140

ACCUMULATOR

34

SPUD DATE

2005/01/23

TIME

13 15

RIG RELEASE

TIME

WELL TYPE

VERT

RENTY

OPERATOR'S AFE

240346

KELLY BSHD

6.44

OP FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM

AKTA40_20050111_2A

VENDOR SOFTWARE VERSION

EDR_3-1.1_HFZ ETS 2.2

CAODC

PASON

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

CONO MUD & CMC

TRIPS

RIG SERVICE

REPAIR RIG

CUT OFF DRILL LINE

DEV SURVEY

WIRELINE LOGS

RUN CCG & CEMENT

WAIT ON CEMENT

RIPLLE UP & P

TEST & P

DRILLSTEM TEST

PLUG BACK

SQUEEZE CEMENT

FISHING

DR WORK

SAFETY MEETING

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

OD

BIT NO.

TIME

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRC

GADE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

KELLY DOWN

TORQUE AT BOTTOM

WT OF D.C.

FILL ON BOTTOM (m)

WT OF STRING

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

OD

BIT NO.

TIME

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRC

GADE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

KELLY DOWN

TORQUE AT BOTTOM

WT OF D.C.

FILL ON BOTTOM (m)

WT OF STRING

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

OD

BIT NO.

TIME

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRC

GADE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

KELLY DOWN

TORQUE AT BOTTOM

WT OF D.C.

FILL ON BOTTOM (m)

WT OF STRING

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

OD

BIT NO.

TIME

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRC

GADE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

KELLY DOWN

TORQUE AT BOTTOM

WT OF D.C.

FILL ON BOTTOM (m)

WT OF STRING

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

OD

BIT NO.

TIME

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

T2

MDC

LOC

BRC

GADE

ODC

REASON PULLED

TOTAL RUN HRS

HOLE CONDITION

HOLE DRAG

KELLY DOWN

TORQUE AT BOTTOM

WT OF D.C.

FILL ON BOTTOM (m)

WT OF STRING

NO

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

OD

BIT NO.

TIME

MUD TYPE

WATER BASED

OIL BASED

FROM

TO

D-R-C

RPM

WOB

FROM

TO

ELAPSED TIME

CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

SIZE

WDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH

LICENCE NO

WELL NAME & NO

NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR

CONTRACTOR

NORTHROCK RESOURCES LTD

AKITA DRILLING LTD

SURFACE LOCATION

UNIQUE ID

L-71-64-30-125-30

1/10

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

DAILY CHECKS

(1) Daily Well Around Inspection

(2) Detailed Inspection Weekly (Using Check List)

(3) H2S Signs Posted if Required

(4) Well Location & Stock Diagram Posted

(5) Flare Lines Staked

(6) BOP Data Performed

(7) Visually Inspect BOP's Flare Lines & Drigester Lines

(1) Rig Site Health & Safety Meeting (enough/month)

(2) CAODC Rig Safety Inspection Checklist (enough/month)

(3) Mast Inspection before Raising or Lowering

(4) Crown Tower Checked

(5) Motor Kils Checked

YEAR

MONTH

DAY

LAST CASING TURNING OR LINER

Q.D. (mm)

MIN I.D. (mm)

MASS (kg/m3)

MAKE

GRADE

NO. OF JOINTS

TOTAL LENGTH

H8 TO CSD HEAD

SET AT (m)

RIG NO

40

FUEL @ 00.00 HRS

244 5

222.6

53 6

IPSCO

J55

38

512.28

5 44

541

RIG NO

4896

BOILER

244 5

220 6

59 5

IPSCO

J55

3

30

30

TEMPERATURE

DC/OP

MASS

GRADE

MINIMUM I.D.

T. AT O.D.

TYPE

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

DC/OP

171

157

DC

69

171

5 H90

24

PZ-9

GARDNER DENVER

229

DC/OP

127

18.25

E75

127

4.5 F

261

PZ-9

GARDNER DENVER

229

DC/OP

127

18.25

X95

127

4.5 F

139

SPUD DATE

2005/01/23

TIME

13 15

RIG RELEASE

TIME

REENTRY

WELL TYPE

VERT

OPERATOR'S A/E

240346

KELLY BKG

6.44

OF FUEL

CONTRACTOR'S JOB NUM

TOUR SHEET SERIAL NUM

AKTA40_20050109_2A

VEHICLE SOFTWARE VERSION

EDR_3.1.1_HF2 ETS 2.2

CAODC

PASON

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR

MONTH

DAY

OPERATOR

NORTHROCK et al Sah Cho L 71-64-30-125-30

CONTRACTOR

AKITA DRILLING LTD

RIG MANAGER

NORTHROCK RESOURCES LTD

AKITA DRILLING LTD

PROVINCE

CAMP

YES

NO

RIG SAFETY DAYS

205

MORNING TOUR

FROM

800

TO

2000

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

FLOOR HAND

Tyler Salters

12

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

55

DAY TOUR

FROM

2000

TO

800

INJURIES

CREW

SOC INS. NO

NAME

HRS

YES

NO

MOTOR HAND

Nathan Curtlett

12

RATE SCHEDULE

X

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

55

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

OLD

BIT NO.

SIZE

MDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

To

MDC

LOC

BRO

GAGE

ODC

REASON PULLED

TOTAL RUN

HOLE CONDITION

DRILL PIPE

STANDS

DRILL PIPE

SINGLES

KELLY DOWN

TORQUE AT BOTTOM

WT OF D.C.

WT OF STRING

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

BIT

OLD

BIT NO.

SIZE

MDC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

T1

To

MDC

LOC

BRO

GAGE

ODC

REASON PULLED

TOTAL RUN

HOLE CONDITION

DRILL PIPE

STANDS

DRILL PIPE

SINGLES

KELLY DOWN

TORQUE AT BOTTOM

WT OF D.C.

WT OF STRING

DRILLING ASSEMBLY (AT END OF TOUR)

LENGTH

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

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MUD RECORD

METRES DRILLED

TIME LOG

BIT

LICENCE NO NORTHROCK et al Sah Cho L-71-64-30-125-30

OPERATOR NORTHROCK RESOURCES LTD CONTRACTOR AKITA DRILLING LTD

SURFACE LOCATION L-71-64-30-125-30 SIGNATURE OF OPERATOR'S REPRESENTATIVE SIGNATURE OF CONTRACTOR'S RIG MANAGER

DAILY CHECKS

YEAR 2005 MONTH 1 DAY 4

LAST CASING TURNING OR LOCKER

NO. OF JOINTS TOTAL LENGTH NO. TO CSD HEAD SET AT (m)

TEMPERATURE CURRENT CONDITIONS

DC / DP

MASS GRADE

SHALE SHAKER (S)

RENTALS / SERVICES

MORNING DAY

DRILLING CREW PAYROLL DATA

CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER (S)		RENTALS / SERVICES		MORNING DAY		DRILLING CREW PAYROLL DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CEMENT & CEMENT	WAIT ON CEMENT	HOPE UP B O P	TEST B O P	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FINISH	OUR WORK	SAFETY MEETING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</

BIT RECORD

MORNING TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

DRILLER SIGNATURE

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MEAS

MAP

DRILLING CREW PAYROLL DATA

WELL NAME & NO

YEAR MONTH DAY

OPERATOR CONTRACTOR

RIG MANAGER

PROVINCE

CAMP

YES

NO

RIG SAFETY DAYS

INJURIES

RATE SCHEDULE

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

50

BIT RECORD

DAY TOUR

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

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YEAR MONTH DAY

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RIG MANAGER

PROVINCE

CAMP

YES

NO

RIG SAFETY DAYS

INJURIES

RATE SCHEDULE

REGULAR

REPAIR

INVERT

CREW SAFETY DAYS

DRIVERS

50