

2006 APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR: APACHE CANADA LTD. CONTRACTOR NAME: AKITA SAHTU DRILLING

SURFACE LOCATION: 66:33:39.09 126:03:02.84

SIGNATURE OF OPERATOR'S REPRESENTATIVE: BOB BRAITHWAITE RICK PARKER

UNIQUE ID: 300K146640126000

SIGNATURE OF CONTRACTOR'S RIG MANAGER: RICK PARKER

DRILLING CREW PAYROLL DATA

WELL NAME & NO: APACHE PARAMOUNT WEST NOGHA K-14 YEAR: 2004 MONTH: 2 DAY: 24

OPERATOR: APACHE CANADA LTD. CONTRACTOR NAME: AKITA SAHTU DRILLING

RIG MANAGER: RICK PARKER/MICK HALLOCK RIG NO: 51

PROVINCE: N.W.T. CAMP: X YES NO RIG SAFETY DAYS: 541

MORNING TOUR FROM 0 TO 800

CREW: DRILLER DELBERT STADE 8.00 YES NO
DERRICK HAND GRAHAM SVATOS 8.00 GS
DERRICK HAND RANDY ABRA 8.00 RA
MOTOR HAND BRYAN KRAMPL 8.00 BK
MOTOR HAND DERRYL COOK 8.00 DC
FLOOR HAND CHARLES GULLY 8.00 CG
FLOOR HAND DENNIS BLANCHO 8.00 DB
LEASE HAND JEREMY RIVARD 8.00 JR
LEASE HAND MODESA EDDIBAR 8.00 ME

RATE SCHEDULE: REGULAR REPAIR X INVERT

CREW SAFETY DAYS: 29

DAY TOUR FROM 800 TO 1600

CREW: DRILLER BRUCE PRESTON 8.00 BP
DERRICK HAND CORY MARTEL 8.00 CM
MOTOR HAND BUDDY GULLY 8.00 BG
MOTOR HAND JOE KESKENY 8.00 JK
FLOOR HAND DERRICK SHAE 8.00 DS
FLOOR HAND LEON TRUREAU 8.00 LT
LEASE HAND TIMOTHY GRANDJAMBE 8.00 TG

W.S.C: PAUL REYNOLDS 12.00 PNR

RATE SCHEDULE: REGULAR REPAIR X INVERT

CREW SAFETY DAYS: 29

EVENING TOUR FROM 1600 TO 2400

CREW: DRILLER ROD NEUFELD 8.00 RN
DERRICK HAND WILLIE STRATY 8.00 WS
MOTOR HAND ALLEN KELLY 8.00 AK
MOTOR HAND BRYAN KRAMPL 8.00 BK
FLOOR HAND ABRAHAM TUTCHO 8.00 AT
FLOOR HAND ANTHONY DOCTOR 8.00 AD
LEASE HAND JOSPH BLANCHO 8.00 JB
LEASE HAND ALEXIE ORLIAS 8.00 AO

RATE SCHEDULE: REGULAR REPAIR X INVERT

CREW SAFETY DAYS: 29

2006 APACHE PARAMOUNT WEST NOGHA K-14

APACHE CANADA LTD. AKITA SAHTU DRILLING

66:33:39.09 126:03:02.84

2222 RICK PARKER/MICK HALLOCK

SPUD DATE: 2004/03/01 TIME: 19:00

RIG RELEASE: 2004/03/21 TIME: 23:59

WELL TYPE: RE-ENTRY

OPERATORS AFE: 2

KELLY BSHG: OF FUEL

CONTRACTORS JOB NUM: 2

TOUR SHEET SERIAL NUM: 2

VENDOR SOFTWARE VERSION:

DRILLING CREW PAYROLL DATA

WELL NAME & NO: APACHE PARAMOUNT WEST NOGHA K-14 YEAR: 2004 MONTH: 2 DAY: 25

OPERATOR: APACHE CANADA LTD. CONTRACTOR NAME: AKITA SAHTU DRILLING

RIG MANAGER: RICK PARKER/MICK HALLOCK RIG NO: 51

PROVINCE: N.W.T. CAMP: X YES NO RIG SAFETY DAYS: 542

RATE SCHEDULE: REGULAR REPAIR X INVERT

CREW SAFETY DAYS: DRIVERS

30

DAY TOUR FROM 800 TO 1600 INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 8.00 BP

DERRICK HAND CORY MARTEL 8.00 CM

MOTOR HAND JOE KESKENY 8.00 JK

MOTOR HAND BUDDY GULLY 8.00 BG

FLOOR HAND DERRICK SHAE 8.00 DS

FLOOR HAND LEON TRUREAU 8.00 LT

LEASE HAND TIMOTHY GRANDJAMBE 8.00 TG

RATE SCHEDULE: REGULAR REPAIR X INVERT

CREW SAFETY DAYS: DRIVERS

30

EVENING TOUR FROM 1600 TO 2400 INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 4.00 BP

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND JOE KESKENY 4.00 JK

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND LEON TRUREAU 4.00 LT

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE: REGULAR REPAIR X INVERT

CREW SAFETY DAYS: DRIVERS

30

2006 APACHE PARAMOUNT WEST NOGHA K-14

APACHE CANADA LTD. AKITA SAHTU DRILLING

66:33:39.09 126:03:02.84 300K146640126000

ARNIE MERCHANT RICK PARKER

DRILLING CREW PAYROLL DATA

APACHE PARAMOUNT WEST NOGHA K-14

APACHE CANADA LTD. AKITA SAHTU DRILLING

RICK PARKER/MICK HALLOCK

32

DAY TOUR

FROM 800 TO 1600

CREW

DRILLER ROD NEUFELD

DERRICK HAND WILLIE STRATY

MOTOR HAND ALLEN KELLY

FLOOR HAND ABRAHAM TUTCHO

LEASE HAND ANTHONY DOCTOR

LEASE HAND JOSPH BLANCHO

W.S.C ALEXIE ORLIAS

PAUL REYNOLDS

32

EVENING TOUR

FROM 1600 TO 2400

CREW

DRILLER BRUCE PRESTON

DERRICK HAND CORY MARTEL

MOTOR HAND JOE KESKENY

MOTOR HAND BUDDY GULLY

FLOOR HAND DERRICK SHAE

FLOOR HAND LEON TRUREAU

LEASE HAND TIMOTHY GRANDJAMBE



DRILLING CREW PAYROLL DATA									
WELL NAME & NO.		YEAR		MONTH		DAY			
APACHE PARAMOUNT WEST NOGHA K-14		2004		2		28			
OPERATOR		CONTRACTOR NAME							
APACHE CANADA L.T.D.		AKITA SAHTU DRILLING							
RIG MANAGER		RIG NO.							
RICK PARKER/MICK HALLOCK		51							
PROVINCE		CAMP		YES		NO		RIG SAFETY DAYS	
N.W.T.		☒		☐		☐		545	

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LICENCE NO. 2006 APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

SURFACE LOCATION 66:33:39.09 126:03:02.84 UNIQUE ID 300K146640126000

SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT SIGNATURE OF CONTRACTOR'S RIG MANAGER RICK PARKER

1) Daily Work Around Inspection
2) Detailed Inspection Weekly (Using Check List)
3) H2S Signs Posted if Required
4) Well Licence & Stick Diagram Posted
5) Flow Lines Staged
6) BOP Drills Performed
7) Visually Inspect BOP's Flow Lines & Degasser Lines
8) Rig Site Health & Safety Meeting (once per month)
9) CADC Rig Seal Inspection Checklist (once per month)
10) Most Inspection before Raising or Lowering
11) Crown Sewer Checked
12) 15000 Kilo Checked

YEAR 2004 MONTH 2 DAY 29

RIG NO. 51

FUEL @ 08:00 HRS

TEMPERATURE

WIND DIRECTION

ROAD CONDITION

SHALE SHAKERS

RENTALS / SERVICES

MORN DAY EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14 YEAR 2004 MONTH 2 DAY 29

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

RIG MANAGER RICK PARKER/MICK HALLOCK RIG NO. 51

PROVINCE N.W.T. CAMP X YES NO RIG SAFETY DAYS 546

MORNING TOUR FROM 0 TO 800

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 8.00 BP

DERRICK HAND CORY MARTEL 8.00 CM

MOTOR HAND JOE KESKENY 8.00 JK

MOTOR HAND BUDDY GULLY 8.00 BG

FLOOR HAND DERRICK SHAE 8.00 DS

FLOOR HAND LEON TRUREAU 8.00 LT

LEASE HAND TIMOTHY GRANDJAMBE 0.00 TG

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS DRIVERS

34

DAY TOUR FROM 800 TO 1600

CREW SOC INS. NO. NAME HRS YES NO

DRILLER ROD NEUFELD 12.00 RN

DERRICK HAND WILLIE STRATY 12.00 WS

MOTOR HAND ALLEN KELLY 12.00 AK

FLOOR HAND ABRAHAM TUTCHO 12.00 AT

FLOOR HAND ANTHONY DOCTOR 12.00 AD

LEASE HAND JOSPH BLANCHO 12.00 JB

LEASE HAND ALEXIE ORLIAS 12.00 AO

W.S.C PAUL REYNOLDS 12.00 PNR

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS DRIVERS

34

EVENING TOUR FROM 1600 TO 2400

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 4.00 BP

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND JOE KESKENY 4.00 JK

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND LEON TRUREAU 4.00 LT

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS DRIVERS

34

2006 APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR: APACHE CANADA LTD. CONTRACTOR NAME: AKITA SAHTU DRILLING

SURFACE LOCATION: 66:33:39.09 126:03:02.84

SIGNATURE OF OPERATOR'S REPRESENTATIVE: ARNIE MERCHANT

SIGNATURE OF CONTRACTOR'S RIG MANAGER: RICK PARKER

UNIQUE ID: 300K146640126000

DATE: 2004 MONTH: 3 DAY: 3

TIME: 19:00

WELL TYPE: RE-ENTRY

OPERATOR'S AFE: 2

CONTRACTOR'S JOB NUM: 2

TOUR SHEET SERIAL NUM: 2

VENDOR SOFTWARE VERSION: 5.49

WELL NAME & NO: APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR: APACHE CANADA LTD. CONTRACTOR NAME: AKITA SAHTU DRILLING

RIG MANAGER: RICK PARKER/ SHAWN LOWES

PROVINCE: N.W.T. CAMP: X YES NO RIG SAFETY DAYS: 549

RATE SCHEDULE: X REGULAR REPAIR INVERT

CREW SAFETY DAYS: 37

DAY TOUR: FROM 800 TO 1600

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

DRILLER: ROD NEUFELD 8.00 RN

DERRICK HAND: JACK GOULET 8.00 JS

MOTOR HAND: ALLEN KELLY 8.00 AK

MOTOR HAND: JOE KESKENY 8.00 JK

FLOOR HAND: ABRAHAM TUTCHO 8.00 AT

FLOOR HAND: ANTHONY DOCTOR 8.00 AD

LEASE HAND: JOSH BLANCHO 8.00 JB

LEASE HAND: ALEXIE ORLIAS 8.00 AO

W.S.C: JASON UNRAU 8.00 JU

DRILLER: DELBERT STADE 12.00 DS

DERRICK HAND: GRAHAM SVATOS 12.00 GS

DERRICK HAND: ERNIE LAFLEUR 12.00 EF

MOTOR HAND: BRYAN KRAMPL 12.00 BK

FLOOR HAND: CHARLES GULLY 12.00 CG

FLOOR HAND: DENNIS BLANCHO 12.00 DB

LEASE HAND: JEREMY RIVARD 12.00 JR

LEASE HAND: MODESA EDDIBAR 8.00 ME

W.S.C: JASON UNRAU 8.00 JU

DRILLER: ROD NEUFELD 4.00 RN

DERRICK HAND: JACK GOULET 4.00 JS

MOTOR HAND: ALLEN KELLY 4.00 AK

MOTOR HAND: JOE KESKENY 4.00 JK

FLOOR HAND: ABRAHAM TUTCHO 4.00 AT

FLOOR HAND: ANTHONY DOCTOR 4.00 AD

LEASE HAND: JOSH BLANCHO 4.00 JB

LEASE HAND: ALEXIE ORLIAS 4.00 AO

W.S.C: JASON UNRAU 4.00 JU

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W.S.C: JASON UNRAU 4.00 JU



PASON DATAHUB

CODE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	TOTALS	SHALE SHAKER(S)	RENTALS / SERVICES	MORN	DAY	EVE	
	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	CONO MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	AMPLE UP B.O.P.	TEST B.O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRL WORK	SAFETY MEETING						8.00	NO. TYPE OF BITS	TRUCK SHOP				
MORN	7.75						0.25			0.25																	8.00	SCREENS CHANGED	NEW JUBS	FEUL TRANS, PUMP			
DAY	7.25									0.50																	100	TOP	TOP				
EVE	7.75									0.25																	100	MIDDLE	MIDDLE				
TOTAL	22.75						0.25			1.00																	8.00	100	BOTTOM	BOTTOM			
																											24.00	100	BOTTOM	BOTTOM			
NO.	DRILLING ASSEMBLY (AT END OF TOUR)		LENGTH	BIT RECORD				MORNING TOUR		MUD RECORD				METRES DRILLED				TIME LOG															
1	BIT		O.D. 0.30	BIT NO.	1A			MUD TYPE	WATER BASED ☒ OIL BASED ☐		FROM		TO	D-R-C	RPM	WOB	FROM	TO	ELAPSED TIME	CODE	DETAILS OF OPERATIONS IN SEQUENCE & REMARKS												
1	MOTOR		256 10.20	SIZE	311.0			TIME	100	400	700	139.00	160.00	D	40	8	0	15	0.25	10	DEV. SURVEY												
1	MONEL		225 8.82	WOC CODE				DENSITY (kg/m3)	1040	1030	1030						15	800	7.75	2	DRILL F- 139-160												
1	HANG OFF SUB		233 1.00	MANUFACTURER	HUGHES			FUNNEL VISCOSITY	45	49	47						800																
2	MONEL		227 18.64	TYPE	GTS20			FLUID LOSS (cm3)																									
2	JAR		228 4.97	SERIAL NO.	6019006			pH	8.5	10.0	10.0																						
2	D.C.		230 18.95	JETS	22	22		T.M.V.	42.40	43.90	44.00																						
1	X.O.		220 0.32					MUD MATERIALS ADDED				SOLIDS CONTROL				CIRCULATION PRESSURE KPa		PUMP NO. 1		PUMP NO. 2													
10	D.C.		156 89.32					PRODUCT AMOUNT UNIT				CENTRIFUGE				UNDER FLOW DENSITY		UNDER FLOW DENSITY		UNDER FLOW DENSITY													
								CAUSTIC 1 SX				HOURS RUN				INTAKE DENSITY (kg/m3)		OVER FLOW DENSITY		UNDER FLOW DENSITY													
								DEPTH OUT (m)								7400		152.0 119		152.0 118													
								DEPTH IN (m)										REDUCED PUMP SPEED															
								TOTAL DRILLED (m)										@ .		@ .													
								TOTAL HRS RUN										DEPTH (m)		DEVIATION		DIRECTION											
								CUTTING STRUCTURE										8.00 1030 1010 2160															
								Ti To MDC LOC BRG GAGE ODC REASON PULLED TOTAL RUN min																									
								HOLE CONDITION																									
								HOLE DRAG																									
								TORQUE AT BOTTOM																									
								FILL ON BOTTOM (m)																									
								DP STANDS																									
								DP SINGLES																									
								KELLY DOWN																									
								TOTAL																									
								WT. OF D.C.																									
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NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	MORNING TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	O.D. 0.30	BIT NO. 1A	MUD TYPE	WATER BASED [X] OIL BASED	FROM TO D-R-C RPM WOB	FROM TO ELAPSED TIME CODE
1	MOTOR	258 10.20	SIZE 311.0	TIME	100 400 700	139.00 160.00 D 40 8	0 15 0.25 10 DEV. SURVEY
1	MONEL	225 8.82	WOC CODE	DENSITY (kg/m3)	1040 1030 1030		15 800 7.75 2 DRILL F-139-160
1	HANG OFF SUB	233 1.00	MANUFACTURER HUGHES	FUNNEL VISCOSITY	45 49 47		800
2	MONEL	227 18.64	TYPE GTS20	FLUID LOSS (cm3)			
1	JAR	228 4.97	SERIAL NO. 6019006	pH	8.5 10.0 10.0		
2	D.C.	230 18.95	JETS 22 22	T.M.V.	42.40 43.90 44.00		
1	X.O.	220 0.32					
11	D.C.	158 95.32					
NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	MORNING TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	O.D. 0.30	BIT NO. 1A	MUD TYPE	WATER BASED [X] OIL BASED	FROM TO D-R-C RPM WOB	FROM TO ELAPSED TIME CODE
1	MOTOR	258 10.20	SIZE 311.0	TIME	800 1130 1500	160.00 193.00 D 40 8	800 915 1.25 2 DRILL F/160-165
1	MONEL	225 8.82	WOC CODE	DENSITY (kg/m3)	1040 1040 1040		915 930 0.25 10 DEV. SURVEY @ 149.60 M. 3 D. 72.9 AZ
1	HANG OFF SUB	233 1.00	MANUFACTURER HUGHES	FUNNEL VISCOSITY	46 51 53		930 1330 4.00 2 DRILL F/165-183
2	MONEL	227 18.64	TYPE GTS20	FLUID LOSS (cm3)			1330 1345 0.25 7 RIG SERVICE
1	JAR	228 4.97	SERIAL NO. 6019006	pH	9.5 9.5 9.5		1345 1545 2.00 2 DRILL F/183-193
2	D.C.	230 18.95	JETS 22 22	T.M.V.	44.00 43.50 43.00		1545 1600 0.25 10 DEV. SURVEY @ 176.2 M. 2 D. 53.5 AZ
1	X.O.	220 0.32					1600
11	D.C.	158 95.62					
2	H.W.D.P.	155 18.48					
NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	DAY TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	O.D. 0.30	BIT NO. 1A	MUD TYPE	WATER BASED [X] OIL BASED	FROM TO D-R-C RPM WOB	FROM TO ELAPSED TIME CODE
1	MOTOR	258 10.20	SIZE 311.0	TIME	800 1130 1500	160.00 193.00 D 40 8	800 915 1.25 2 DRILL F/160-165
1	MONEL	225 8.82	WOC CODE	DENSITY (kg/m3)	1040 1040 1040		915 930 0.25 10 DEV. SURVEY @ 149.60 M. 3 D. 72.9 AZ
1	HANG OFF SUB	233 1.00	MANUFACTURER HUGHES	FUNNEL VISCOSITY	46 51 53		930 1330 4.00 2 DRILL F/165-183
2	MONEL	227 18.64	TYPE GTS20	FLUID LOSS (cm3)			1330 1345 0.25 7 RIG SERVICE
1	JAR	228 4.97	SERIAL NO. 6019006	pH	9.5 9.5 9.5		1345 1545 2.00 2 DRILL F/183-193
2	D.C.	230 18.95	JETS 22 22	T.M.V.	44.00 43.50 43.00		1545 1600 0.25 10 DEV. SURVEY @ 176.2 M. 2 D. 53.5 AZ
1	X.O.	220 0.32					1600
11	D.C.	158 95.62					
2	H.W.D.P.	155 18.48					
NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	DAY TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	O.D. 0.30	BIT NO. 1A	MUD TYPE	WATER BASED [X] OIL BASED	FROM TO D-R-C RPM WOB	FROM TO ELAPSED TIME CODE
1	MOTOR	258 10.20	SIZE 311.0	TIME	1700 2100 2330	193.00 236.00 D 40 10	1600 2030 4.50 2 DRILL F/193-221
1	MONEL	225 8.82	WOC CODE	DENSITY (kg/m3)	1040 1040 1040		2030 2045 0.25 10 DEV. SURVEY
1	HANG OFF SUB	233 1.00	MANUFACTURER HUGHES	FUNNEL VISCOSITY	52 58 62		2045 2400 3.25 2 DRILL F-221-236
2	MONEL	227 18.64	TYPE GTS20	FLUID LOSS (cm3)			2400
1	JAR	228 4.97	SERIAL NO. 6019006	pH	9.5 9.0 8.5		
2	D.C.	230 18.95	JETS 22 22	T.M.V.	43.04 37.70 41.70		
1	X.O.	220 0.32					
11	D.C.	158 95.62					
2	H.W.D.P.	155 36.91					
NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	EVENING TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	O.D. 0.30	BIT NO. 1A	MUD TYPE	WATER BASED [X] OIL BASED	FROM TO D-R-C RPM WOB	FROM TO ELAPSED TIME CODE
1	MOTOR	258 10.20	SIZE 311.0	TIME	1700 2100 2330	193.00 236.00 D 40 10	1600 2030 4.50 2 DRILL F/193-221
1	MONEL	225 8.82	WOC CODE	DENSITY (kg/m3)	1040 1040 1040		2030 2045 0.25 10 DEV. SURVEY
1	HANG OFF SUB	233 1.00	MANUFACTURER HUGHES	FUNNEL VISCOSITY	52 58 62		2045 2400 3.25 2 DRILL F-221-236
2	MONEL	227 18.64	TYPE GTS20	FLUID LOSS (cm3)			2400
1	JAR	228 4.97	SERIAL NO. 6019006	pH	9.5 9.0 8.5		
2	D.C.	230 18.95	JETS 22 22	T.M.V.	43.04 37.70 41.70		
1	X.O.	220 0.32					
11	D.C.	158 95.62					
2	H.W.D.P.	155 36.91					
NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	EVENING TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	O.D. 0.30	BIT NO. 1A	MUD TYPE	WATER BASED [X] OIL BASED	FROM TO D-R-C RPM WOB	FROM TO ELAPSED TIME CODE
1	MOTOR	258 10.20	SIZE 311.0	TIME	1700 2100 2330	193.00 236.00 D 40 10	1600 2030 4.50 2 DRILL F/193-221
1	MONEL	225 8.82	WOC CODE	DENSITY (kg/m3)	1040 1040 1040		2030 2045 0.25 10 DEV. SURVEY
1	HANG OFF SUB	233 1.00	MANUFACTURER HUGHES	FUNNEL VISCOSITY	52 58 62		2045 2400 3.25 2 DRILL F-221-236
2	MONEL	227 18.64	TYPE GTS20	FLUID LOSS (cm3)			2400
1	JAR	228 4.97	SERIAL NO. 6019006	pH	9.5 9.0 8.5		
2	D.C.	230 18.95	JETS 22 22	T.M.V.	43.04 37.70 41.70		
1	X.O.	220 0.32					
11	D.C.	158 95.62					
2	H.W.D.P.	155 36.91					
NO.	DRILLING ASSEMBLY (AT END OF TOUR)	LENGTH	BIT RECORD	EVENING TOUR	MUD RECORD	METRES DRILLED	TIME LOG
1	BIT	O.D. 0.30	BIT NO. 1A	MUD TYPE	WATER BASED [X] OIL BASED	FROM TO D-R-C RPM WOB	FROM TO ELAPSED TIME CODE
1	MOTOR	258 10.20	SIZE 311.0	TIME	1700 2100 2330	193.00 236.00 D 40 10	1600 2030 4.50 2

[illegible]

2006 APACHE PARAMOUNT WEST NOGHA K-14

CONTRACTOR NAME: AKITA SAHTU DRILLING

UNIQUE ID: 300K146640126000

SIGNATURE OF OPERATOR'S REPRESENTATIVE: ARNIE MERCHANT

SIGNATURE OF CONTRACTOR'S RIG MANAGER: RICK PARKER

WELL NAME: APACHE PARAMOUNT WEST NOGHA K-14

DATE: 2004/03/01

TIME: 19:00

WELL TYPE: RE-ENTRY

OPERATOR'S AFE: 2

KELLY BSHD: []

CONTRACTOR'S JOB NUM: 2

TOUR SHEET SERIAL NUM: []

VENDOR SOFTWARE VERSION: []

PASON DATAHUB

DAILY CHECKS

1. Daily Walk Around Inspection

2. Detailed Inspection - Weekly (Using Check List)

3. KOS Signs Posted if Required

4. Well Leases & Stock Diagrams Posted

5. Flow Lines Staked

6. BOP Drills Performed

7. Visually Inspect BOPs, Flow Lines & Degasser Lines

8. Rig Area Health & Safety Meeting (once a week)

9. CADC Rig Safety Inspection Checklist (once a week)

10. Meet Inspection before Raising or Lowering

11. Crown Block Checked

12. Motor Vibs Checked

WELL DATA

RIG NO: 51

FUEL @ 08:00 HRS: 339.7

BOILER: 315.3

MASS (kg/m3): 101.0

GRADE: K-55

NO. OF JOINTS: 5

TOTAL LENGTH: 61.60

KB TO CSG HEAD: 61.00

SET AT (m): []

TEMPERATURE

CURRENT CONDITIONS

DC/DP: 158

MASS: 132.00

GRADE: 55

MINIMUM ID: 158

TYPE: 4-1/2 XH 20

NO. OF JOINTS: 20

WIND DIRECTION: 114

WIND SPEED: 62.45

ROAD CONDITION: 114

SHALE SHAKERS

RENTALS / SERVICES

MORN: 24.70

DAY: 114

EVE: 114

TOTALS

NO. OF TYPE: 8.00

SCREENS CHANGED: 100

NEW: 100

USED: 100

TRUCK SHOP: FEUL TRANS, PUMP

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

DRILL F 277 - 289

RIG SERVICE

DEV. SURVEY @ 279m 1 DEG.

DRILL F 289 - 297

BLEW DOWN BOILER 4X 150 LTRS

#2 BOILER 8 HRS

NEW JSA RETRIEVING BOOMLINE FROM BOOM ARM AND UPDATE JSA SURVEYING

DRILLER SIGNATURE: ROD NEUFELD

TIME / DEPTH

SAFETY TOPIC: MEHL

MACP

CREW SAFETY DAYS

DRIVERS

39

DAY TOUR

FROM: 800 TO: 1600

INJURIES

CREW

SOC INS. NO.

NAME

HRS

YES

NO

DRILLER: DELBERT STADE

DERRICK HAND: GRAHAM SVATOS

DERRICK HAND: ERNIE LAFLEUR

MOTOR HAND: BRYAN KRAMPL

FLOOR HAND: CHARLES GULLY

FLOOR HAND: DENNIS BLANCHO

LEASE HAND: JEREMY RIVARD

LEASE HAND: MODESA EDDIBAR

W.S.C: JASON UNRAU

RATE SCHEDULE: X REGULAR REPAIR INVERT

CREW SAFETY DAYS

DRIVERS

39

EVENING TOUR

FROM: 1600 TO: 2400

INJURIES

CREW

SOC INS. NO.

NAME

HRS

YES

NO

DRILLER: ROD NEUFELD

DERRICK HAND: JACK GOULET

MOTOR HAND: ALLEN KELLY

MOTOR HAND: JOE KESKENY

FLOOR HAND: ABRAHAM TUTCHO

FLOOR HAND: ANTHONY DOCTOR

LEASE HAND: JOSH BLANCHO

LEASE HAND: ALEXIE ORLIAS

W.S.C: JASON UNRAU

RATE SCHEDULE: X REGULAR REPAIR INVERT

CREW SAFETY DAYS

DRIVERS

39

2006 APACHE PARAMOUNT WEST NOGHA K-14

APACHE CANADA LTD. AKITA SAHTU DRILLING

66:33:39.09 126:03:02.84

ARNE MERCHANT RICK PARKER

DRILLING CREW PAYROLL DATA

DRILLER: ROD NEUFELD

DRILLER: JACK GOULET

DRILLER: ALLEN KELLY

DRILLER: JOE KESKENY

DRILLER: ABRAHAM TUTCHO

DRILLER: ANTHONY DOCTOR

DRILLER: JOSEPH BLANCHO

DRILLER: ALEXIE ORLAS

DRILLER: DELBERT STADE

DRILLER: GRAHAM SVATOS

DRILLER: ERNIE LAFLEUR

DRILLER: BRYAN KRAMPL

DRILLER: CHARLES GULLY

DRILLER: DENNIS BLANCHO

DRILLER: JEREMY RIVARD

DRILLER: MODISA EDDIBAR

DRILLER: JASON UNRAU

2006 APACHE PARAMOUNT WEST NOGHA K-14

APACHE CANADA LTD. AKITA SAHTU DRILLING

66:33:39.09 126:03:02.84

ARNIE MERCHANT RICK PARKER/ SHAWN LOWES

DRILLING CREW PAYROLL DATA

DRILLER: ROD NEUFELD

DECKHAND: JACK GOULET

MOTOR HAND: ALLEN KELLY

MOTOR HAND: JOE KESKENY

FLOOR HAND: ABRAHAM TUTCHO

FLOOR HAND: ANTHONY DOCTOR

LEASE HAND: JOSEPH BLANCHO

LEASE HAND: ALEXIE ORLIAS

LICENCE NO. 2006 WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

SURFACE LOCATION 66:33:39.09 126:03:02.84 SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT

UNIQUE ID 300K146640126000 SIGNATURE OF CONTRACTOR'S RIG MANAGER RICK PARKER/ SHAWN LOWES

DAILY CHECKS

LAST CASING TUBING OR LINER

OD (mm) 339.7 ID (mm) 315.3 MASS (kg/m) 101

GRADE K-55 NO OF JOINTS 5 TOTAL LENGTH 61.60 KG TO CSG HEAD 61.00

TEMPERATURE

CURRENT CONDITIONS

WIND DIRECTION

WIND SPEED

WIND CONDITION

SHALE SHAKER(S)

RENTALS / SERVICES

MORN DAY EVE

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14 YEAR 2004 MONTH 3 DAY 8

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

RIG MANAGER RICK PARKER/ SHAWN LOWES RIG NO. 51

PROVINCE N.W.T. CAMP X YES NO RIG SAFETY DAYS 554

MORNING TOUR

CREW SOC INS. NO. NAME HRS YES NO

DRILLER ROD NEUFELD 8.00 RN

DERRICK HAND JACK GOULET 8.00 JG

MOTOR HAND ALLEN KELLY 8.00 AK

MOTOR HAND JOE KESKENY 8.00 JK

FLOOR HAND ABRAHAM TUTCHO 8.00 AT

FLOOR HAND ANTHONY DOCTOR 8.00 AD

LEASE HAND JOSPH BLANCHO 8.00 JB

LEASE HAND ALEXIE ORLIAS 8.00 AO

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS DRIVERS

42

DAY TOUR

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 12.00 DS

DERRICK HAND GRAHAM SVATOS 12.00 GS

DERRICK HAND ERNIE LAFLEUR 12.00 EF

MOTOR HAND BRYAN KRAMPL 12.00 BK

FLOOR HAND CHARLES GULLY 12.00 CG

FLOOR HAND DENNIS BLANCHO 12.00 DB

LEASE HAND JEREMY RIVARD 12.00 JR

LEASE HAND MODISA EDDIBAR 12.00 ME

W.S.C JASON UNRAU 8.00 JU

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS DRIVERS

42

EVENING TOUR

CREW SOC INS. NO. NAME HRS YES NO

DRILLER ROD NEUFELD 4.00 RN

DERRICK HAND JACK GOULET 4.00 JG

MOTOR HAND ALLEN KELLY 4.00 AK

MOTOR HAND JOE KESKENY 4.00 JK

FLOOR HAND ABRAHAM TUTCHO 4.00 AT

FLOOR HAND ANTHONY DOCTOR 4.00 AD

LEASE HAND JOSPH BLANCHO 4.00 JB

LEASE HAND ALEXIE ORLIAS 4.00 AO

W.S.C JASON UNRAU 4.00 JU

RATE SCHEDULE X REGULAR REPAIR INVERT

CREW SAFETY DAYS DRIVERS

42

Well Name & NO: 2006 APACHE PARAMOUNT WEST NOGHA K-14

Operator: APACHE CANADA LTD. Contractor Name: AKITA SAHTU DRILLING

Surface Location: 66:33:39.09 126:03:02.84 Signature of Operator's Representative: ARNIE MERCHANT

Unique ID: 300K146640126000 Signature of Contractor's Rig Manager: RICK PARKER

Drilling Crew Payroll Data: Morning Tour (0 to 800), Day Tour (800 to 1600), Evening Tour (1600 to 2400)

Drilling Assembly (at end of tour): BIT, O.D., LENGTH, 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), WT. OF D.C., WT. OF STRING

Mud Record: MUD TYPE, TIME, DENSITY (kg/m3), FUNNEL VISCOSITY, FLUID LOSS (cm3), pH, MUD MATERIALS ADDED, SOLIDS CONTROL, CIRCULATION PRESSURE, PUMP NO. 1, PUMP NO. 2, CENTRIFUGE, REDUCED PUMP SPEED, DEVIATION SURVEYS, BOILERS, DRILLER SIGNATURE

Metres Drilled: FROM, TO, D-R-C, RPM, WOB

Time Log: DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

Drilling Crew Payroll Data: Morning Tour (0 to 800), Day Tour (800 to 1600), Evening Tour (1600 to 2400)

Drilling Assembly (at end of tour): BIT, O.D., LENGTH, 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), WT. OF D.C., WT. OF STRING

Mud Record: MUD TYPE, TIME, DENSITY (kg/m3), FUNNEL VISCOSITY, FLUID LOSS (cm3), pH, MUD MATERIALS ADDED, SOLIDS CONTROL, CIRCULATION PRESSURE, PUMP NO. 1, PUMP NO. 2, CENTRIFUGE, REDUCED PUMP SPEED, DEVIATION SURVEYS, BOILERS, DRILLER SIGNATURE

Metres Drilled: FROM, TO, D-R-C, RPM, WOB

Time Log: DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

Drilling Crew Payroll Data: Morning Tour (0 to 800), Day Tour (800 to 1600), Evening Tour (1600 to 2400)

Drilling Assembly (at end of tour): BIT, O.D., LENGTH, 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), WT. OF D.C., WT. OF STRING

Mud Record: MUD TYPE, TIME, DENSITY (kg/m3), FUNNEL VISCOSITY, FLUID LOSS (cm3), pH, MUD MATERIALS ADDED, SOLIDS CONTROL, CIRCULATION PRESSURE, PUMP NO. 1, PUMP NO. 2, CENTRIFUGE, REDUCED PUMP SPEED, DEVIATION SURVEYS, BOILERS, DRILLER SIGNATURE

Metres Drilled: FROM, TO, D-R-C, RPM, WOB

Time Log: DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

APACHE CANADA LTD. AKITA SAHTU DRILLING 300K146640126000 BOB ROLFES/ED MEGYES

DRILLING CREW PAYROLL DATA

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		DELBERT STADE	8.00		DS
DERRICK HAND		GRAHAM SVATOS	8.00		GS
DERRICK HAND		ERNIE LAFLEUR	8.00		EF
MOTOR HAND		BRYAN KRAMP	8.00		BK
FLOOR HAND		CHARLES GULLY	8.00		CG
FLOOR HAND		DENNIS BLANCH	8.00		DB
LEASE HAND		JEREMY RIVARD	8.00		JR
LEASE HAND		MODESA EDDIBAR	8.00		ME

44

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		BRUCE PRESTON	12.00		BP
DERRICK HAND		CORY MARTEL	12.00		CM
MOTOR HAND		BRAIN WILLIAMS	12.00		BW
MOTOR HAND		BUDDY GULLY	12.00		BG
FLOOR HAND		DERRICK SHAE	12.00		DS
FLOOR HAND		STANLEY FERDIAND	12.00		SF
LEASE HAND		TIMOTHY GRANDJAMBE	12.00		TG
W.S.C		JASON UNRAU	8.00		JU

44

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		DELBERT STADE	4.00		DS
DERRICK HAND		GRAHAM SVATOS	4.00		GS
DERRICK HAND		ERNIE LAFLEUR	4.00		EF
MOTOR HAND		BRYAN KRAMP	4.00		BK
FLOOR HAND		CHARLES GULLY	4.00		CG
FLOOR HAND		DENNIS BLANCH	4.00		DB
LEASE HAND		JEREMY RIVARD	4.00		JR
LEASE HAND		MODESA EDDIBAR	4.00		ME
W.S.C		JASON UNRAU	4.00		JU

[illegible]

LICENSE NO. 2006 **APACHE PARAMOUNT WEST NOGHA K-14**

OPERATOR APACHE CANADA LTD. **CONTRACTOR NAME** AKITA SAHTU DRILLING

SURFACE LOCATION 66:33:39.09 126:03:02.84 **UNIQUE ID** 300K146640126000

SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT **SIGNATURE OF CONTRACTOR'S RIG MANAGER** BOB ROLFES/ED MEGYES

DAILY CHECKS

- (1) Daily Walk Around Inspection
- (2) Detailed Inspection - Weekly (Using Check List)
- (3) H2S Signs Posted if Required
- (4) Well Location & Slick Diagram Posted
- (5) Flow Lines Striked
- (6) BOP Dills Performed
- (7) Visually Insured BOPs, Flow Lines & Degasser Lines
- (8) Rig Site Health & Safety Meeting (once/monthly)
- (9) CAODC Rig Safe Inspection Checklist (weekly/monthly)
- (10) Mast Inspection before Raising or Lowering
- (11) Crown Saver Checked
- (12) Motor Kils Checked

RIG NO. 51 **FUEL @ 60.00 HRS** 190 **TEMPERATURE** 114 **CURRENT CONDITIONS** 114 **WIND DIRECTION** N.W. **ROAD CONDITION** ICE

LAST CASING TUBING OR LINER 339.7 315.3 101' **MARE** K-55 5 61.60 **NO. OF JOINTS** 39 **TOTAL LENGTH** 548.87 **SET AT (ft)** 61.00

SPUD DATE 2004/03/21 **TIME** 19:00 **RIG RELEASE** 2004/03/21 **TIME** 23:59

WELL TYPE **RE-ENTRY** **OPERATOR'S AFE** 2 **KELLY BSHG** **OP FUEL** **CONTRACTOR'S JOB NUM** 2 **TOUR SHEET SERIAL NUM** **VENDOR SOFTWARE VERSION**

PASON DATAHUB

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14 **YEAR** 2004 **MONTH** 3 **DAY** 13

OPERATOR APACHE CANADA LTD. **CONTRACTOR NAME** AKITA SAHTU DRILLING

RIG MANAGER BOB ROLFES/ED MEGYES **RIG NO.** 51 **PROVINCE** N.W.T. **CAMP** X YES **NO** **RIG SAFETY DAYS** 559

MORNING TOUR FROM 0 TO 800 **INJURIES**

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		DELBERT STADE	8.00		DS
DERRICK HAND		GRAHAM SVATOS	8.00		GS
DERRICK HAND		ERNIE LAFLEUR	8.00		EF
MOTOR HAND		BRYAN KRAMPL	8.00		BK
FLOOR HAND		CHARLES GULLY	8.00		CG
FLOOR HAND		DENNIS BLANCHO	8.00		DB
LEASE HAND		JEREMY RIVARD	8.00		JR
LEASE HAND		MODESA EDDIBAR	8.00		ME

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS 47 **DRIVERS**

DAY TOUR FROM 800 TO 1600 **INJURIES**

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		BRUCE PRESTON	12.00		BP
DERRICK HAND		CORY MARTEL	12.00		CM
MOTOR HAND		BRAIN WILLIAMS	12.00		BW
MOTOR HAND		BUDDY GULLY	12.00		BG
FLOOR HAND		DERRICK SHAE	12.00		DS
FLOOR HAND		STANLEY FERDIAND	12.00		SF
LEASE HAND		TIMOTHY GRANDJAMBE	12.00		TG
W.S.C		JASON UNRAU	8.00		JU

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS 47 **DRIVERS**

EVENING TOUR FROM 1600 TO 2400 **INJURIES**

CREW	SOC INS. NO.	NAME	HRS	YES	NO
DRILLER		DELBERT STADE	4.00		DS
DERRICK HAND		GRAHAM SVATOS	4.00		GS
DERRICK HAND		ERNIE LAFLEUR	4.00		EF
MOTOR HAND		BRYAN KRAMPL	4.00		BK
FLOOR HAND		CHARLES GULLY	4.00		CG
FLOOR HAND		DENNIS BLANCHO	4.00		DB
LEASE HAND		JEREMY RIVARD	4.00		JR
LEASE HAND		MODESA EDDIBAR	4.00		ME
W.S.C		JASON UNRAU	4.00		JU

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS 47 **DRIVERS**

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

SURFACE LOCATION 66:33:39.09 126:03:02.84

SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT

SIGNATURE OF CONTRACTOR'S RIG MANAGER BOB ROLFES/ED MEGYES

1) Daily Well Log Inspection

2) Detailed Inspection - Weekly (Using Check List)

3) H2S Signs Posted if Required

4) Well Licence & Stick Diagram Posted

5) Flow Lines Diagram

6) BOP Drills Performed

7) Visually Inspect BOPs - Flare Lines & Degasser Lines

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

9) IADC Rig Safety Inspection Checklist (once/month)

10) Meet Inspection before Raising or Lowering

11) Crown Saver Checked

12) Motor Kilo Checked

YEAR 2004 MONTH 3 DAY 14

RIG NO. 51

FUEL @ 08:00 HRS

BOILER

TEMPERATURE

WIND DIRECTION

WIND SPEED

ROAD CONDITION

LAST CASING TUBING OR LINER

Q.D. (mm)

M.W.D. (mm)

M.A.S. (kg/m3)

GRADE

NO. OF JOINTS

TOTAL LENGTH

KB TO CSG HEAD

SRT AT (m)

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LENGTH



PASON DATAHUB

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

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

DRILLING ASSEMBLY (AT END OF TOUR)

BIT

O.D.

SIZE

BT NO.

3

4

MOTOR

216

7.82

216.0

216.0

MONEL

174

9.47

WOC CODE

HANG OFF SUB

171

1.00

MANUFACTURER

HUGHES

HUGHES

X.O.

165

0.76

TYPE

HX-S20

HCM404

MONEL

168

9.47

SERIAL NO.

5043465

7002043

X.O.

168

0.75

D.C.

165

8.63

JETS

3

X

JAR

159

4.71

D.C.

161

90.05

H.W.D.P.

159

36.91

DEPTH OUT (m)

786.00

DEPTH IN (m)

653.00

786.00

TOTAL DRILLED (m)

133.00

TOTAL HRS RUN

27.50

CUTTING STRUCTURE

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

DRILLING ASSEMBLY (AT END OF TOUR)

BIT

O.D.

SIZE

BT NO.

4

MOTOR

216

7.82

216.0

216.0

MONEL

174

9.47

WOC CODE

HANG OFF SUB

171

1.00

MANUFACTURER

HUGHES

HUGHES

X.O.

165

0.76

TYPE

HCM404

MONEL

168

9.47

SERIAL NO.

7002043

X.O.

168

0.75

D.C.

165

8.63

JETS

6X

12.7

JAR

159

4.71

D.C.

161

90.05

H.W.D.P.

159

36.91

DEPTH OUT (m)

786.00

DEPTH IN (m)

7.00

TOTAL DRILLED (m)

1.75

TOTAL HRS RUN

1.75

CUTTING STRUCTURE

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

DRILLING ASSEMBLY (AT END OF TOUR)

BIT

O.D.

SIZE

BT NO.

4

MOTOR

216

7.82

216.0

216.0

MONEL

174

9.47

WOC CODE

HANG OFF SUB

171

1.00

MANUFACTURER

HUGHES

HUGHES

X.O.

165

0.76

TYPE

HCM404

MONEL

168

9.47

SERIAL NO.

7002043

X.O.

168

0.75

D.C.

165

8.63

JETS

6X

12.7

JAR

159

4.71

D.C.

161

90.05

H.W.D.P.

159

36.91

DEPTH OUT (m)

786.00

DEPTH IN (m)

7.00

TOTAL DRILLED (m)

1.75

TOTAL HRS RUN

1.75

CUTTING STRUCTURE

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

DRILLING ASSEMBLY (AT END OF TOUR)

BIT

O.D.

SIZE

BT NO.

4

MOTOR

216

7.82

216.0

216.0

MONEL

174

9.47

WOC CODE

HANG OFF SUB

171

1.00

MANUFACTURER

HUGHES

HUGHES

X.O.

165

0.76

TYPE

HCM404

MONEL

168

9.47

SERIAL NO.

7002043

X.O.

168

0.75

D.C.

165

8.63

JETS

6X

12.7

JAR

159

4.71

D.C.

161

90.05

H.W.D.P.

159

36.91

DEPTH OUT (m)

786.00

DEPTH IN (m)

7.00

TOTAL DRILLED (m)

1.75

TOTAL HRS RUN

1.75

CUTTING STRUCTURE

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

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26

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

RIG MANAGER BOB ROLFES/ED MEGYES

PROVINCE N.W.T. CAMP X YES NO RIG SAFETY DAYS 560

MORNING TOUR

CREW

SOC INS. NO.

NAME

HRS

YES

NO

DRILLER

DELBERT STADE

8.00

DS

DERRICK HAND

GRAHAM SVATOS

8.00

GS

DERRICK HAND

ERNIE LAFLEUR

8.00

EF

MOTOR HAND

BRYAN KRAMPL

8.00

BK

FLOOR HAND

CHARLES GULLY

8.00

CG

FLOOR HAND

DENNIS BLANCHO

8.00

DB

LEASE HAND

JEREMY RIVARD

8.00

JR

LEASE HAND

MODESA EDDIBAR

8.00

ME

RATE SCHEDULE

REGULAR

REPAIR

X

INVERT

CREW SAFETY DAYS

DRIVERS

48

DAY TOUR

CREW

SOC INS. NO.

NAME

HRS

YES

NO

DRILLER

BRUCE PRESTON

12.00

BP

DERRICK HAND

CORY MARTEL

12.00

CM

MOTOR HAND

BRAIN WILLIAMS

12.00

BW

MOTOR HAND

BUDDY GULLY

12.00

BG

FLOOR HAND

DERRICK SHAE

12.00

DS

FLOOR HAND

STANLEY FERDIAND

12.00

SF

LEASE HAND

TIMOTHY GRANDJAMBE

12.00

TG

W.S.C

JASON UNRAU

8.00

JU

RATE SCHEDULE

REGULAR

REPAIR

X

INVERT

CREW SAFETY DAYS

DRIVERS

48

EVENING TOUR

CREW

SOC INS. NO.

NAME

HRS

YES

NO

DRILLER

DELBERT STADE

4.00

DS

DERRICK HAND

GRAHAM SVATOS

4.00

GS

DERRICK HAND

ERNIE LAFLEUR

4.00

EF

MOTOR HAND

BRYAN KRAMPL

4.00

BK

FLOOR HAND

CHARLES GULLY

4.00

CG

FLOOR HAND

DENNIS BLANCHO

4.00

DB

LEASE HAND

JEREMY RIVARD

4.00

JR

LEASE HAND

MODESA EDDIBAR

4.00

ME

W.S.C

JASON UNRAU

4.00

JU

RATE SCHEDULE

REGULAR

REPAIR

X

INVERT

CREW SAFETY DAYS

DRIVERS

48

LICENCE NO 2006 **WELL NAME & LOG** APACHE PARAMOUNT WEST NOGHA K-14
OPERATOR APACHE CANADA LTD. **CONTRACTOR NAME** AKITA SAHTU DRILLING

SURFACE LOCATION 66°33'39.09 126°03'02.84 **UNIQUE ID** 300K146640126000
SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT **SIGNATURE OF CONTRACTOR'S RIG MANAGER** BOB ROLFES/ED MEGYES

DAILY CHECKS

- (1) Daily Walk Around Inspection
- (2) Detailed Inspection - Weekly (Using Check List)
- (3) H2S Signs Posted if Required
- (4) Well License & Risk Diagram Posted
- (5) Flare Lines Staked
- (6) BOP Drills Performed
- (7) Visually Inspected BOP's, Flow Lines & Degasser Lines
- (8) Rig Site Health & Safety Meeting (once per month)
- (9) CAODC Rig Safe Inspection Checklist (once per month)
- (10) Meet inspection before Raising or Lowering
- (11) Crown Saver Checked
- (12) Motor Kibbs Checked

RIG DATA

RIG NO. 51 FUEL @ 0800 HRS 339.7 315.3 101.7
RIG NO. 135 240 244.5 224.4 59.5

TEMPERATURE

W. TEMP. 158 D.C. OP. SIZE 158 MASS 158 GRADE 158 MINIMUM 158 T. INT. 158 TYPE 158 NO. OF JOINTS 158 PUMP TYPE 158 PUMP MANUFACTURER 158 STROKE LENGTH 158

CURRENT CONDITIONS

WIND DIRECTION S.W. ROAD CONDITION G.E.

SHALE SHAKERS

NO. 1 TYPE 158 NEW/JUST 158 TRUCK SHOP 158 RENTALS / SERVICES 158 MORNING 158 DAY 158 EVE 158

METRES DRILLED

FROM TO D-R-C RPM WOB

999.00 1110.00 D 8 40

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

800 1415 6.25 2 DRILL F/999-1092

1415 1430 0.25 7 RIG SERVICE FUNCTION TOP PIPERAMS 4 SEC

1430 1515 0.75 2 DRILL F/1092-1110

1515 1600 0.75 10 DEV. SURVEYS

MUD RECORD

MUD TYPE WATER BASED OIL BASED X

TIME 830 1230 400

DENSITY (kg/m³) 1140 1150 1150

FUNNEL VISCOSITY 136 125 115

FLUID LOSS (cm³) pH

PVT M3 34.30 42.20 42.80

MUD MATERIALS ADDED

PRODUCT AMOUNT UNIT

CALCIUM-CHLORIDE 7 SX

LIME 7 SX

SOLIDS CONTROL

HOURS RUN INTAKE OVER UNDER

9100 152.0 120 152.0

REDUCED PUMP SPEED

3800 @ 55 914

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

871.44 0.30 250.5

900.02 0.10 44.5

919.11 0.10 109.8

948.00 0.30 313.2

974.77 0.30 336.2

DRILLER SIGNATURE

DELBERT STADE

CREW SAFETY DAYS

REGULAR REPAIR X INVERT

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14 YEAR 2004 MONTH 3 DAY 15

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

RIG MANAGER BOB ROLFES/ED MEGYES RIG NO. 51

PROVINCE N.W.T. CAMP X YES NO RIG SAFETY DAYS 561

MORNING TOUR

FROM 0 TO 800

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 8.00 DS

DERRICK HAND GRAHAM SVATOS 8.00 GS

DERRICK HAND ERNIE LAFLEUR 8.00 EF

MOTOR HAND BRYAN KRAMPL 8.00 BK

FLOOR HAND CHARLES GULLY 8.00 CG

FLOOR HAND DENNIS BLANCHO 8.00 DB

LEASE HAND JEREMY RIVARD 8.00 JR

LEASE HAND MODESA EDDIBAR 8.00 ME

DAY TOUR

FROM 800 TO 1600

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 12.00 BP

DERRICK HAND CORY MARTEL 12.00 CM

MOTOR HAND BRAIN WILLIAMS 12.00 BW

MOTOR HAND BUDDY GULLY 12.00 BG

FLOOR HAND DERRICK SHAH 12.00 DS

FLOOR HAND STANLEY FERDIAND 12.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 12.00 TG

W.S.C. JASON UNRAU 8.00 JU

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND GRAHAM SVATOS 4.00 GS

DERRICK HAND ERNIE LAFLEUR 4.00 EF

MOTOR HAND BRYAN KRAMPL 4.00 BK

FLOOR HAND CHARLES GULLY 4.00 CG

FLOOR HAND DENNIS BLANCHO 4.00 DB

LEASE HAND JEREMY RIVARD 4.00 JR

LEASE HAND MODESA EDDIBAR 4.00 ME

W.S.C. JASON UNRAU 4.00 JU

[illegible]

LICENCE NO. WELL NAME & NO. **APACHE PARAMOUNT WEST NOGHA K-14**

DATE 2006 **MONTH** 3 **DAY** 17

OPERATOR APACHE CANADA LTD. **CONTRACTOR NAME** AKITA SAHTU DRILLING

SURFACE LOCATION 66:33.39.09 126:03:02.84 **UNIQUE ID** 300K146640126000

SIGNATURE OF OPERATORS REPRESENTATIVE ARNIE MERCHANT **SIGNATURE OF CONTRACTORS RIG MANAGER** BOB ROLFES/ED MEGYES

DAILY CHECKS

- (1) Daily Walk Around Inspection
- (2) Detailed Inspection - Weekly (Using Check List)
- (3) H2S Signs Posted if Required
- (4) Well Location & Shd Diagram Posted
- (5) Flare Lines Staked
- (6) BOP Drills Performed
- (7) Visually Inspect BOP, Flow Lines & Degasser Lines
- (8) Rig Site Health & Safety Meeting (once/monthly)
- (9) CADC Rig Safe Inspection Checklist (once/monthly)
- (3) Meet inspection before Raising or Lowering
- (4) Crown Saver Checked
- (5) Motor Kils Checked

RIG NO. 51 **FUEL @ 08:00 HRS** 339.7 315.3 101.7
244.5 224.4 59.5

TEMPERATURE 33 **WIND DIRECTION** ESE **ROAD CONDITION** CE

DC/DP 158 **SIZE** 132.00 **MASS** 55 **GRADE** 154 **MINIMUM LD** 154 **JNT. QTY** 20 **PUMP TYPE** BP-80 **NATIONAL** 216
114 62.45 70 154 4 1/2 XH 57 8P-80 NATIONAL 216
114 24.70 G 92 114 4 1/2 XH 190 W

SHALE SHAKERS(S) **RENTALS / SERVICES** **MORN** **DAY** **EVE**

TOTALS 8.00 100 TOP 100 TOP 8.00 100 MIDDLE 100 MIDDLE 8.00 100 BOTTOM 100 BOTTOM 24.00

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14 **YEAR** 2004 **MONTH** 3 **DAY** 17

OPERATOR APACHE CANADA LTD. **CONTRACTOR NAME** AKITA SAHTU DRILLING

RIG MANAGER BOB ROLFES/ED MEGYES **RIG NO.** 51

PROVINCE N.W.T. **CAMP** YES **NO** **RIG SAFETY DAYS** 563

MORNING TOUR FROM 0 TO 800 **INJURIES**

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

DRILLER DELBERT STADE 8.00 DS
DERRICK HAND CORY MARTEL 8.00 CM
MOTOR HAND BRAIN WILLIAMS 8.00 BW
MOTOR HAND BUDDY GULLY 8.00 BG
FLOOR HAND DERRICK SHAHE 8.00 DS
FLOOR HAND STANLEY FERDIAND 8.00 SF
LEASE HAND TIMOTHY GRANDJAMBE 8.00 TG

RATE SCHEDULE **REGULAR** **REPAIR** X **INVERT**

CREW SAFETY DAYS **DRIVERS**

DAY TOUR FROM 800 TO 1600 **INJURIES**

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

DRILLER BRUCE PRESTON 12.00 BP
DERRICK HAND JACK GOULET 12.00 JG
MOTOR HAND JOE KESKENY 12.00 JK
MOTOR HAND ALLEN KELLY 12.00 AK
FLOOR HAND ABRAHAM TUTCHO 12.00 AT
FLOOR HAND ALEXIE ORLIAS 12.00 AO

W.S.C PAUL REYNOLDS 4.00 PNR

RATE SCHEDULE **REGULAR** **REPAIR** X **INVERT**

CREW SAFETY DAYS **DRIVERS**

EVENING TOUR FROM 1600 TO 2400 **INJURIES**

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

DRILLER DELBERT STADE 4.00 DS
DERRICK HAND CORY MARTEL 4.00 CM
MOTOR HAND BRAIN WILLIAMS 4.00 BW
MOTOR HAND BUDDY GULLY 4.00 BG
FLOOR HAND DERRICK SHAHE 4.00 DS
FLOOR HAND STANLEY FERDIAND 4.00 SF
LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

W.S.C PAUL REYNOLDS 6.00 PNR

RATE SCHEDULE **REGULAR** **REPAIR** X **INVERT**

CREW SAFETY DAYS **DRIVERS**

LICENCE NO. 2006 **WELL NAME** APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. **CONTRACTOR NAME** AKITA SAHTU DRILLING

SURFACE LOCATION 66:33:39.09 126:03:02.84 **UNIQUE ID** 300K146640126000

SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT **SIGNATURE OF CONTRACTOR'S RIG MANAGER** BOB ROLFES/ED MEGYES

DAILY CHECKS

- (1) Daily Walk Around Inspection
- (2) Detailed Inspection - Weekly (Using Check List)
- (3) H2S Signs Posted if Required
- (4) Well Location & Stick Diagram Posted
- (5) Flare Lines Stated
- (6) BOP Drills Performed
- (7) Visually Inspect BOP Flare Lines & Degasser Lines
- (8) BOP Health & Safety Meeting (once per month)
- (9) CADC Rig Seal Inspection Checklist (once per month)
- (10) Mast Inspection before Raising or Lowering
- (11) Crown Saver Checked
- (12) Motor Kits Checked

RIG NO. 51 **LAST CASING TUBING OR LINER** 339.7 315.3 101 244.5 224.4 59.5

FUEL @ 05:00 HRS 180 **TEMPERATURE** 158 132.00 55 158 4 1/2 XH 20 8P-80 NATIONAL 216

CURRENT CONDITIONS EAST **ROD CONDITION** GCE

MASS (kg/m³) 101 **MINIMUM L.D. (mm)** 59.5

MAKE K-55 **NO. OF JOINTS** 5 **TOTAL LENGTH** 61.60 **KB TO CSG HEAD** 548.00 **SET AT (m)** 51.00

SPUD DATE 2004/03/21 **TIME** 19:00

RIG RELEASE 2004/03/21 **RE-ENTRY**

WELL TYPE **OPERATOR'S AFE** 2 **DP FUEL**

KELLY BSHG **CONTRACTOR'S JOB NUM** 2 **RIG SAFETY DAYS** 51

TOUR SHEET SERIAL NUM **VENDOR SOFTWARE VERSION**

PASON DATAHUB

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14 **YEAR** 2004 **MONTH** 3 **DAY** 19

OPERATOR APACHE CANADA LTD. **CONTRACTOR NAME** AKITA SAHTU DRILLING

RIG MANAGER BOB ROLFES/ED MEGYES **RIG NO.** 51

PROVINCE N.W.T. **CAMP** X YES **NO**

MORNING TOUR FROM 0 TO 800 INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 8.00 DS

DERRICK HAND CORY MARTEL 8.00 CM

MOTOR HAND BRAIN WILLIAMS 8.00 BW

MOTOR HAND BUDDY GULLY 8.00 BG

FLOOR HAND DERRICK SHAE 8.00 DS

FLOOR HAND STANLEY FERDIAND 8.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 8.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS DRIVERS

53

DAY TOUR FROM 800 TO 1600 INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 12.00 BP

DERRICK HAND JACK GOULET 12.00 JG

MOTOR HAND JOE KESKENY 12.00 JK

MOTOR HAND ALLEN KELLY 12.00 AK

FLOOR HAND ABRAHAM TUTCHO 12.00 AT

FLOOR HAND ALEXIE ORLIAS 12.00 AO

LEASE HAND JEREMY RIVARD 12.00 JR

W.S.C PAUL REYNOLDS 4.00 PNR

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS DRIVERS

53

EVENING TOUR FROM 1600 TO 2400 INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

W.S.C PAUL REYNOLDS 8.00 PNR

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS DRIVERS

53

TRIP 48 **SAFETY TOPIC** MEHL MACP

2006 APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

SURFACE LOCATION 66:33:39.09 126:03:02.84

SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT SIGNATURE OF CONTRACTOR'S RIG MANAGER BOB ROLFES

UNIQUE ID 300K146640126000

DRILLING LOG

1) Daily Walk Around Inspection

2) Detailed Inspection - Weekly (Using Check List)

3) H2S Signs Posted if Required

4) Well License & Stick Diagram Posted

5) Flow Lines Drilled

6) BOP Dibs Performed

7) Visually Inspect BOPs, Flow Lines & Degasser Lines

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

9) CADC Rig Safety Inspection Checklist (once a month)

10) Must inspect before Raising or Lowering

11) Control Tower Checked

12) Motor Ribs Checked

13) H2S Signs Posted if Required

14) Well License & Stick Diagram Posted

15) Flow Lines Drilled

16) BOP Dibs Performed

17) Visually Inspect BOPs, Flow Lines & Degasser Lines

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

19) CADC Rig Safety Inspection Checklist (once a month)

20) Must inspect before Raising or Lowering

21) Control Tower Checked

22) Motor Ribs Checked



PASON DATAHUB

DRILLING LOG

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. DRILLING ASSEMBLY (AT END OF TOUR) LENGTH

BIT O.D. 0.25

BIT NO. 5

SIZE 216.0

WDC CODE 5 3 7

MANUFACTURER HUGHES

TYPE HX-S30

SERIAL NO. 5040439

JETS OPEN OPEN

DEPTH OUT (m) 1404.00

DEPTH IN (m) 1344.00

TOTAL DRILLED (m) 60.00

TOTAL HRS RUN 26.75

CUTTING STRUCTURE

TI T₂ MDC LOC BRG GAGE OOC REASON PULLED TOTAL RUN (m)

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

DAY TOUR

MUD RECORD

MUD TYPE WATER BASED OIL BASED

TIME 100

DENSITY (kg/m³) 1250

FUNNEL VISCOSITY 200

FLUID LOSS (cm³)

pH

MUD MATERIALS ADDED

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 6.00 HRS RUN

BOILER PH 10.5 BOILER PH

STACK TEMP 400 STACK TEMP

DRILLER SIGNATURE DELBERT STADE

TIME / DEPTH

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

0 145 1.75 5 COND MUD & CIRC

145 200 0.25 7 RIG SERVICE BOP FUNCTION HYDRIL CLOSED 14 SECS

200 500 3.00 6 LAYDOWN PIPE FLOW CHECKS @ 1394 M/1185 M/789 M/

500 545 0.75 8 REPAIR RIG HYDRAULIC HOSE ON FLOOR

545 600 0.25 6 LAY DOWN PIPE

600 700 1.00 8 REPAIR BRAKES

700 800 1.00 6 LAY DOWN PIPE 1/2 1394, 1185, 789

800

NOTES: FUNCTION CROWN SAVER

BLOW BOILERS 4 X 160 LITERS # 2 BOILER 8 HRS

REVIEW JSA ON LAYDOWN PIPE

DAY TOUR

MUD RECORD

MUD TYPE WATER BASED OIL BASED

TIME 100

DENSITY (kg/m³) 1250

FUNNEL VISCOSITY 200

FLUID LOSS (cm³)

pH

MUD MATERIALS ADDED

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 6.00 HRS RUN

BOILER PH 10.5 BOILER PH

STACK TEMP 390 STACK TEMP

DRILLER SIGNATURE BRUCE PRESTON

TIME / DEPTH

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

800 1045 2.75 6 Wd drill pipe & collars, 1/2 147, on bank

1045 1100 0.25 21 SAFETY MTG. run casing

1100 1600 5.00 12 rig to & RUN CASING

1600

NOTES: #2 BOILER 8 HRS: BLEWDOWN BOILERS 4X160 LTRS

JSA ON RUNNING CASING

DAY TOUR

MUD RECORD

MUD TYPE WATER BASED OIL BASED

TIME 100

DENSITY (kg/m³) 1250

FUNNEL VISCOSITY 200

FLUID LOSS (cm³)

pH

MUD MATERIALS ADDED

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 8.00 HRS RUN

BOILER PH 10.5 BOILER PH

STACK TEMP 400 STACK TEMP

DRILLER SIGNATURE DELBERT STADE

TIME / DEPTH

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

1600 1945 3.75 12 RUN CASING

1945 2215 2.50 5 COND MUD & CIRC

2215 2230 0.25 21 SAFETY MTG. W/CEMENTERS

2230 2400 1.50 12 CEMENT CASING

2400

RAN 113 JOINTS 177.8mm 43.16 KGAM L-80 CSG TOTAL 1404.39m LAND @ 1404m

CEMENT W/ 30 TONNE G+5% DO65+2% DO46+3% D167, DENSITY 1900

PLUG DOWN @ 0031 HR 3/2/2004, 4m3 CEMENT RETURNS

NOTES: BLOW BOILERS 4 X 160 LITERS # 2 BOILER 8 HRS

MJ 112 ACC. 85453

REVIEW JSA ON CEMENTING

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14 YEAR 2004 MONTH 3 DAY 20

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

RIG MANAGER BOB ROLFES RIG NO. 51

PROVINCE N.W.T. CAMP X YES NO RIG SAFETY DAYS 566

MORNING TOUR

FROM 0 TO 800

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 8.00 DS

DERRICK HAND CORY MARTEL 8.00 CM

MOTOR HAND BRAIN WILLIAMS 8.00 BW

MOTOR HAND BUDDY GULLY 8.00 BG

FLOOR HAND DERRICK SHAE 8.00 DS

FLOOR HAND STANLEY FERDIAND 8.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 8.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

54

DAY TOUR

FROM 800 TO 1600

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 12.00 BP

DERRICK HAND JACK GOULET 12.00 JG

MOTOR HAND JOE KESKENY 12.00 JK

MOTOR HAND ALLEN KELLY 12.00 AK

FLOOR HAND ABRAHAM TUTCHO 12.00 AT

FLOOR HAND ALEXIE ORLIAS 12.00 AO

LEASE HAND JEREMY RIVARD 12.00 JR

W.S.C. PAUL REYNOLDS 4.00 PNR

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

54

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

W.S.C. PAUL REYNOLDS 8.00 PNR

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

54

[illegible]

LICENCE NO 2006 APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

SURFACE LOCATION 66:33:39.09 126:03:02.84 UNIQUE ID 300K146640126000

SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT SIGNATURE OF CONTRACTOR'S RIG MANAGER BOB ROLFES

YEAR 2004 MONTH 3 DAY 22

RIG NO 51 LAST CASING TUBING OR LINER

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

WIND DIRECTION 158 132.00 55 158 4.1/2XH 20 8P-80 NATIONAL 216

ROAD CONDITION ICE 114 62.45 70 154 4.1/2 XH 57 8P-80 NATIONAL 216

SPUD DATE 2004/03/01 TIME 19:00

RIG RELEASE 2004/03/21 TIME 23:59

WELL TYPE RE-ENTRY

OPERATOR'S AFE 2

KELLY BSHG

CONTRACTOR'S JOB NUM 2

TOUR SHEET SERIAL NUM

VENDOR SOFTWARE VERSION



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	RENTALS / SERVICES	MORN	DAY	EVE
DRILLING ASSEMBLY (AT END OF TOUR)	RIGUP & TEARDOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR PNC	CUT OFF DRILL LINE	DEV SURVEY	WIRELINE LOGS	RUN CSG & CEMENT	WAIT ON CEMENT	NEPPEL UP & O.P.	TEST & O.P.	DRILLSTEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIRL WORK	SAFETY MEETING	Strip mud					8.00	NO	TYPE				
MORN																											8.00	TOP	TOP				
DAY	7.00																										8.00	TOP	TOP				
EVE	8.00																										8.00	MIDDLE	MIDDLE				
TOTAL	15.00																										24.00	100	BOTTOM	100			

BIT RECORD

BIT NO. SIZE IADC CODE MANUFACTURER TYPE SERIAL NO. JETS

DEPTH OUT (m) DEPTH IN (m) TOTAL DRILLED (m) TOTAL HRS RUN

CUTTING STRUCTURE

DP. STANDS DP. SINGLES

KELLY DOWN

TOTAL

WT. OF D.C. TORQUE AT BOTTOM

WT. OF STRING

FILL ON BOTTOM (m)

MORNING TOUR

MUD RECORD

MUD TYPE WATER BASED OIL BASED

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

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE

CIRCULATION PRESSURE

PUMP NO. 1 PUMP NO. 2

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

BOILERS

HRS RUN 8.00

DRILLER SIGNATURE DELBERT STADE

METRES DRILLED

FROM TO D-R-C RPM WOB

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM 0 TO 800 ELAPSED TIME 8.00 CODE 22 STRIP MUD

NOTES BLOW BOILERS 4 X 160 LITERS # 2 BOILER 8 HRS

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC MEHL MACP

DAY TOUR

MUD RECORD

MUD TYPE WATER BASED OIL BASED

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

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE

CIRCULATION PRESSURE

PUMP NO. 1 PUMP NO. 2

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

BOILERS

HRS RUN 4.00

DRILLER SIGNATURE BRUCE PRESTON

METRES DRILLED

FROM TO D-R-C RPM WOB

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM 800 TO 900 ELAPSED TIME 1.00 CODE 22 STRIP MUD

FROM 900 TO 1600 ELAPSED TIME 7.00 CODE 1 RIG OUT CLEAN MUD TANKS

NOTES

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC MEHL MACP

EVENING TOUR

MUD RECORD

MUD TYPE WATER BASED OIL BASED

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

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE

CIRCULATION PRESSURE

PUMP NO. 1 PUMP NO. 2

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

BOILERS

HRS RUN 0.00

DRILLER SIGNATURE DELBERT STADE

METRES DRILLED

FROM TO D-R-C RPM WOB

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM 1600 TO 2400 ELAPSED TIME 8.00 CODE 1 RIG UP & TEAR DOWN drain clean boilers

NOTES

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC MEHL MACP

BIT RECORD

BIT NO. SIZE IADC CODE MANUFACTURER TYPE SERIAL NO. JETS

DEPTH OUT (m) DEPTH IN (m) TOTAL DRILLED (m) TOTAL HRS RUN

CUTTING STRUCTURE

DP. STANDS DP. SINGLES

KELLY DOWN

TOTAL

WT. OF D.C. TORQUE AT BOTTOM

WT. OF STRING

FILL ON BOTTOM (m)

MORNING TOUR

MUD RECORD

MUD TYPE WATER BASED OIL BASED

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

MUD MATERIALS ADDED

SOLIDS CONTROL

CENTRIFUGE

CIRCULATION PRESSURE

PUMP NO. 1 PUMP NO. 2

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

BOILERS

HRS RUN 8.00

DRILLER SIGNATURE DELBERT STADE

METRES DRILLED

FROM TO D-R-C RPM WOB

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

FROM 0 TO 800 ELAPSED TIME 8.00 CODE 22 STRIP MUD

NOTES

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC MEHL MACP

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

RIG MANAGER BOB ROLFES

PROVING N.W.T. CAMP YES NO RIG SAFETY DAYS 568

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

DAY TOUR

FROM 800 TO 1600

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 8.00 DS

DERRICK HAND CORY MARTEL 8.00 CM

MOTOR HAND BRAIN WILLIAMS 8.00 BW

MOTOR HAND BUDDY GULLY 8.00 BG

FLOOR HAND DERRICK SHAE 8.00 DS

FLOOR HAND STANLEY FERDIAND 8.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 8.00 TG

DAY TOUR

FROM 800 TO 1600

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 12.00 BP

DERRICK HAND JACK GOULET 12.00 JG

MOTOR HAND JOE KESKENY 12.00 JK

MOTOR HAND ALLEN KELLY 12.00 AK

FLOOR HAND ABRAHAM TUTCHO 12.00 AT

FLOOR HAND ALEXIE ORLIAS 12.00 AO

LEASE HAND JEREMY RIVARD 12.00 JR

W.S.C. PAUL REYNOLDS 12.00 PNR

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

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FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS

DRIVERS

56

EVENING TOUR

FROM 1600 TO 2400

INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER DELBERT STADE 4.00 DS

DERRICK HAND CORY MARTEL 4.00 CM

MOTOR HAND BRAIN WILLIAMS 4.00 BW

MOTOR HAND BUDDY GULLY 4.00 BG

FLOOR HAND DERRICK SHAE 4.00 DS

FLOOR HAND STANLEY FERDIAND 4.00 SF

LEASE HAND TIMOTHY GRANDJAMBE 4.00 TG

OPERATOR
APACHE CANADA LTD.

CONTRACTOR NAME
AKITA SAHTU DRILLING

SURFACE LOCATION
66:33:39.09 126:03:02.84

UNIQUE ID	300K146640126000
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SIGNATURE OF OPERATOR'S REPRESENTATIVE
ARNIE MERCHANT

SIGNATURE OF CONTRACTOR'S RIG MANAGER
BOB ROLFES

MAINT CHECKS

- (1.) Daily Walk Around Inspection
- (2.) Detailed Inspection - Weekly (Using Check List)
- (3.) H2S Signs Posted if Required
- (4.) Well Licence & Stick Diagram Posted
- (5.) Flare Lines Staked
- (6.) BOP Drills Performed
- (7.) Visually Inspect BOP's - Flare Lines & Degasser Lines
- (8.) Rig Site Health & Safety Meeting (one/twice/month)
- (9.) ICAOCC Rig Safety Inspection Checklist (one/twice/month)
- (10.) Mast Inspection before Raising or Lowering
- (11.) Crown Saver Checked
- (12.) Motor Kills Checked

WELL IDENTIFICATION	RIG NO.		BIRTH	DAY	LAST CASING TUBING OR LINER		O.D. (mm)	I.N.D. (mm)	N.G.S. (inches)	MAKES	GRADE	N.O. OF JOISTS	TOTAL LENGTH	NB TO CSG HEAD	SET AT (ft)	
	[51]		[08.00 HRS]	[3]	[24]	FUEL @ 08.00 HRS	339.7	315.3	101		K-55	5	61.60		61.00	
							244.5	224.4	59.5		L-80	39	548.97		548.00	
	TEMPERATURE		SOILER													
	CURRENT CONDITIONS															
WELL DATA	D/C P	D/C P SIZE	MASS GRADE	MINIMUM I.D.	T. J.T. O.D.	TYPE THREAD	N.O. OF JOISTS	PUMP TYPE	PUMP MANUFACTURER			STROKES PER MIN.				
	WIND DIRECTION	158	132.00	55	158	4 1/2 XH	20	BP-80	NATIONAL			216				
	ROAD CONDITION	114	62.45	70	154	4 1/2 XH	57	BP-80	NATIONAL			216				

SPUD DATE	2004/03/01	TIME	19:00
RIG RELEASE	2004/03/21	TIME	23:59
WELL TYPE		RE-ENTRY	
OPERATOR'S AFE	2		
KELLY BSHG		OP FUEL	
CONTRACTOR'S JOB NUM	2		
TOUR SHEET SERIAL NUM			

PASON DATAHUB

[illegible]

VENDOR SOFTWARE VERSION									
DRILLING CREW PAYROLL DATA									
WELL NAME & NO.					YEAR	MONTH	DAY		
APACHE PARAMOUNT WEST NOGHA K-14					2004	3	24		
OPERATOR					CONTRACTOR NAME				
APACHE CANADA LTD.					AKITA SAHTU DRILLING				
RIG MANAGER					RIG NO.				
BOB ROLFES					51				
PROVINCE	N M T		CAMP	☒	VEH	☐	APT	RIG SAFETY DAYS	

[illegible][illegible]

WT. OF STRING		DRILLING ASSEMBLY (AT END OF TO-IR)		LENGTH		BIT RECORD		DAY TOUR		MUD RECORD		MUD RECORD		METRES DRILLED		TIME LOG							
NO.		BIT	O.D.			BIT NO.		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		DENSITY (kg/m3)								800	1600	8.00	1	CLEAN OUT SHALE TANK, LOAD UP OIL BARRELS			
						WOC CODE		FUNNEL VISCOSITY								1600				CLEAN UP LEASE			
						MANUFACTURER		FLUID LOSS (cm3)															
						TYPE		pH															
						SERIAL NO.																	
						JETS		MUD MATERIALS ADDED			SOLIDS CONTROL			CIRCULATION PRESSURE kPa		PUMP NO. 1		PUMP NO. 2					
								PRODUCT	AMOUNT	UNIT	CENTRIFUGE					LINER SIZE		SPM					
						DEPTH OUT (m)					HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY	REDUCED PUMP SPEED								
						DEPTH IN (m)									@			@					
						TOTAL DRILLED (m)					HOURS RUN	INTAKE DENSITY (kg/m3)	OVER FLOW DENSITY	UNDER FLOW DENSITY	DEVIATION SURVEYS								
						TOTAL HRS RUN									DEPTH (m)			DEVIATION		DIRECTION			
						CUTTING STRUCTURE						BOILERS											
						T1	To	MDC	LOC	BIG	GAGE	ODC	REASON PULLED	TOTAL RUN HOURS	1			2					
						HOLE CONDITION						HRS RUN			0.00			HRS RUN					
						HOLE DRAG						BOILER pH			BOILER pH								
						TORQUE AT BOTTOM						STACK			STACK								
						HOLE DRAG									DRILLER SIGNATURE			SPECIAL EVENT					
						TOTAL																	
						WT. OF D.C.																	
						HOLE DRAG																	
						TORQUE AT BOTTOM																	
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2006 APACHE PARAMOUNT WEST NOGHA K-14

OPERATOR APACHE CANADA LTD. SURFACE LOCATION 66:33:39.09 126:03:02.84 SIGNATURE OF OPERATOR'S REPRESENTATIVE ARNIE MERCHANT

CONTRACTOR NAME AKITA SAHTU DRILLING UNIQUE ID 300K146640126000 SIGNATURE OF CONTRACTOR'S RIG MANAGER BOB ROLFES

DAILY CHECKS

1) Daily Walk Around Inspection	2) Detailed Inspection - Weekly (Using Check List)	3) VHS Signs Posted if Required	4) Wall Licence & Stick Diagram Posted	5) Flow Lines Staked	6) BOP Daily Performance	7) Visually Inspect BOPs - Flow Lines & Degasser Lines	8) Rig Site Health & Safety Meeting (once a week/month)	9) CAGOC Rig Safety Inspection Checklist (once a week/month)	10) Visual Inspection before Raising or Lowering	11) Crown Saver Checked	12) Motor Mills Checked
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WELL NO. 51 FUEL @ 05:00 HRS

WELL NO.	51	FUEL @ 05:00 HRS	339.7	315.3	101	MASS	MINID. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. OF JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)
WELL NO.	51	FUEL @ 05:00 HRS	244.5	224.4	59	MASS	MINID. (mm)	MASS (kg/m3)	MAKE	GRADE	NO. OF JOINTS	TOTAL LENGTH	KB TO CSG HEAD	SET AT (m)

TEMPERATURE

TEMPERATURE	158	132.00	55	158	4.1/2X4	20	BP-80	NATIONAL	216
TEMPERATURE	114	62.45	70	154	4.1/2 X4	57	BP-80	NATIONAL	216
TEMPERATURE	114	24.70	G	92	114	4.1/2 X4	190	W	

SHALE SHAKER(S)

SHALE SHAKER(S)	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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RENTALS / SERVICES

RENTALS / SERVICES	100	100	100	100	100	100	100	100	100	100	100	100	100	100
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MORN DAY EVE

MORN	8.00													
DAY	8.00													
EVE														
TOTAL	16.00													

SPUD DATE 2004/03/01 TIME 19:00

RIG RELEASE 2004/03/21 TIME 23:59

WELL TYPE RE-ENTRY

OPERATOR'S AFE 2

KELLY BSHG OP FUEL

CONTRACTOR'S JOB NUM 2

TOUR SHEET SERIAL NUM

VENDOR SOFTWARE VERSION

PASON DATAHUB

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

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

BIT NO. O.D.

SIZE

WOC CODE

MANUFACTURER

TYPE

SERIAL NO.

JETS

DEPTH OUT (m)

DEPTH IN (m)

TOTAL DRILLED (m)

TOTAL HRS RUN

CUTTING STRUCTURE

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

DP STANDS

DP SINGLES

KELLY DOWN

TOTAL

WT. OF D.C.

WT. OF STRING

DAY TOUR

MUD RECORD

MUD TYPE WATER BASED OIL BASED

TIME

DENSITY (kg/m3)

FUNNEL VISCOSITY

FLUID LOSS (cm3)

pH

MUD MATERIALS ADDED

PRODUCT AMOUNT UNIT

SOLIDS CONTROL

CENTRIFUGE

HOURS RUN INTAKE DENSITY OVER FLOW DENSITY UNDER FLOW DENSITY

REDUCED PUMP SPEED

DEVIATION SURVEYS

DEPTH (m) DEVIATION DIRECTION

BOILERS

HRS RUN HRS RUN

BOILER pH BOILER pH

STACK TEMP STACK TEMP

DRILLER SIGNATURE

SPECIAL EVENT

TIME / DEPTH

SAFETY TOPIC

MEHL

MACP

METRES DRILLED

FROM TO D-R-C RPM WOB

FROM TO ELAPSED TIME CODE

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE & REMARKS

WAIT ON TRUCKS.

DRILLING CREW PAYROLL DATA

WELL NAME & NO. APACHE CANADA LTD. NOGHA K-14

OPERATOR APACHE CANADA LTD. CONTRACTOR NAME AKITA SAHTU DRILLING

RIG MANAGER BOB ROLFES RIG NO. 51

PROVINCE N.W.T. CAMP X YES NO RIG SAFETY DAYS 571

MORNING TOUR FROM 0 TO 800 INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 12.00 BP

DERRICK HAND JACK GOULET 12.00 JG

MOTOR HAND ALLEN KELLY 12.00 AK

MOTOR HAND JOE KESKENY 12.00 JK

W.S.C. PAUL REYNOLDS 12.00 PHR

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS DRIVERS

59

DAY TOUR FROM 800 TO 1600 INJURIES

CREW SOC INS. NO. NAME HRS YES NO

DRILLER BRUCE PRESTON 12.00

DERRICK HAND JACK GOULET 12.00

MOTOR HAND JOE KESKENY 12.00

MOTOR HAND ALLEN KELLY 12.00

W.S.C. PAUL REYNOLDS 12.00

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS DRIVERS

59

EVENING TOUR FROM 1600 TO 2400 INJURIES

CREW SOC INS. NO. NAME HRS YES NO

RATE SCHEDULE REGULAR REPAIR X INVERT

CREW SAFETY DAYS DRIVERS

59