

AEC OIL & GAS CO. LTD.
POST WELL ANALYSIS REPORT FOR
AEC RENAISSANCE CARCAJOU
A-0-74-A/104-N-16

RD
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MAY 29 2000

525 - 3rd Avenue S.W.
Calgary, Alberta
Canada T2P 0G4
Bus (403) 509-4000
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Schlumberger

40004609

AEC OIL & GAS CO. LTD.
POST WELL ANALYSIS REPORT FOR
AEC RENAISSANCE CARCAJOU
A-0-74-A/104-N-16

Job Identification

Alberta Energy Corp

Project ID: AEC Renaissance Carcajou O-74
Pad ID: Single well
Well ID: AEC Renaissance Carcajou O-74
Unique ID: 200/ A-O-74-A/ 104-N-16/ 00

Operator: Alberta Energy Corp
Address: 3700, 707-8th AVE SW
Calgary, Alberta
T2P-1H5
Co Rep: Steve Holyoake

Contractor: Akita Drilling
Rig ID: Akita #14
Pusher: Logan Wild

Service Co: Anadrill - Schlumberger
District: Calgary, Alberta
DD Eng(s): Eric Erickson
DD Eng(s):
MWD Eng(s): Barry Timmerman
MWD Eng(s):

Start Date: Sunday March 5, 2000
Release Date: Saturday march 11, 2000
Total Days: 7

Well Specifications

Alberta Energy Corp

Well Name: AEC Renaissance Carcajou O-74
Well Number: 200/ A-O-74-A/ 104-N-16/ 00

Field Name: Carcajou
Area: Fort Good Hope

KB level (above sea): 111.30 m **Magnetic Declination**
Ground Level (above sea): 107.10 m 31.6
KB to Ground level : 4.20 m

Surface Location

N/S Coord:

E/W Coord:

Target Loc: Planned

(Ref: Kelly Bushing) **Final Bottom Hole Loc:**

N/-S Coord: vertical

N/-S Coord: 0.27m

E/-W Coord:

E/-W Coord: 1.52m

TVD:

TVD: 747.95m

Target Radius: vertical

Well Descriptions

Alberta Energy Corp

AEC Renaissance Carcajou O-74
200/ A-O-74-A/ 104-N-16/ 00

Project Description: Proposed

This is a vertical well that will be kept vertical using motors and MWD.

Project Description: Actual

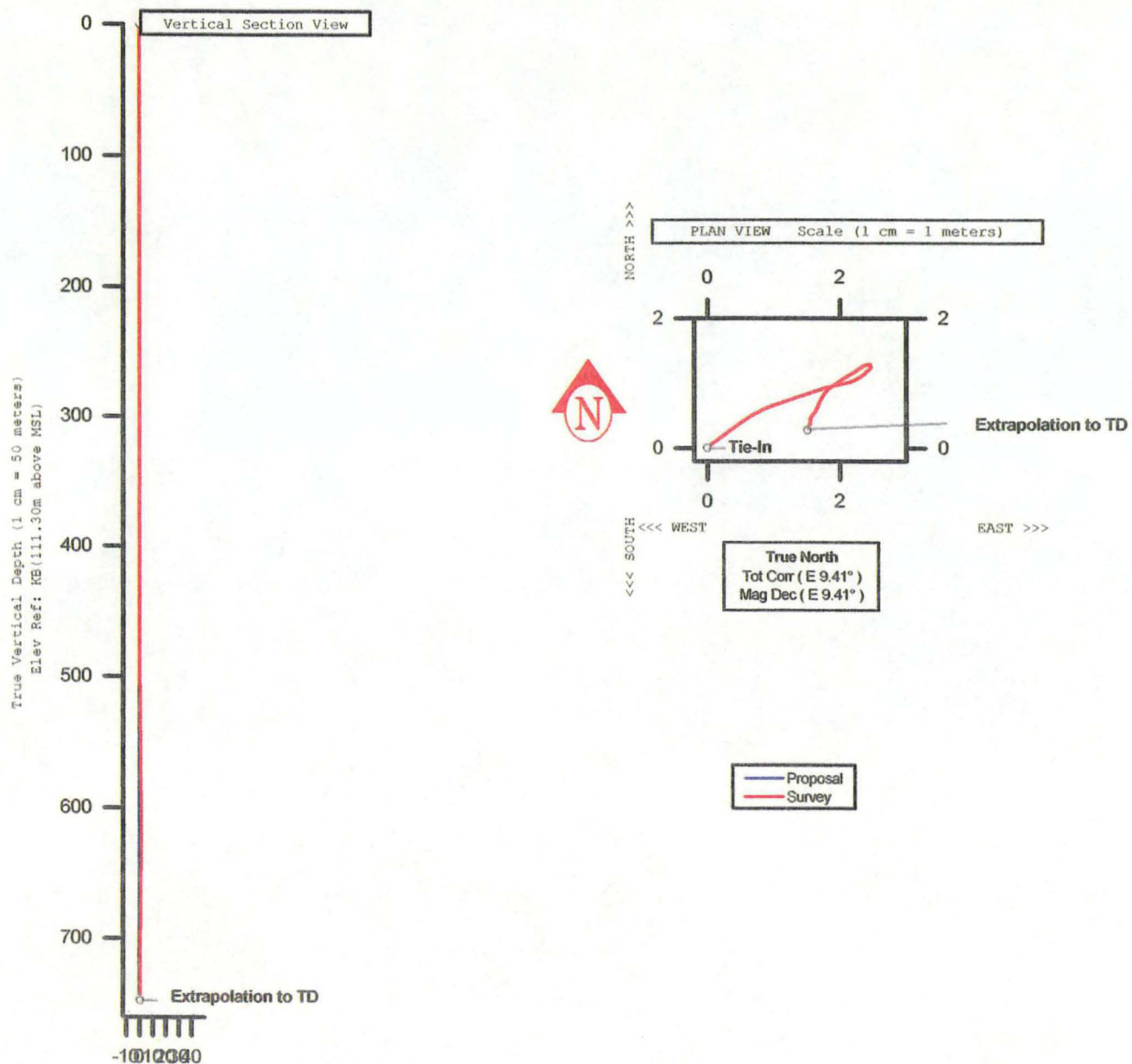
We arrived from Akita #51 too late to pick up tools for main hole.

4.75" tools were sent up from Calgary via Pentastar transport so we could use them for the bottom section of this hole. 16.5 meters of slid were required to keep this hole straight AEC wanted to drill this bottom section with a PDC bit , but the bit did not arrive in time.

A MF2 was run instead, the bit only drilled at 5.5m per hour. The bottom section was drill very smoothly with TD being called at 748m. This is a tight hole.

WELL AEC CARCAJOU A-O-74-A/104-N-16	FIELD CARCAJOU (CDN)	STRUCTURE AEC / A-O-74-A/104-N-16
Magnetic Parameters Model: BGGM 1999 Dip: 8.818° Mag Dec: 9.413° Date: April 05, 2000 FS: 31246.8 nT	Surface Location Lat: N0 0 0.000 Lon: W121 29 19.478 North: 0.00 m East: 0.00 m Grid Conv: 0.0000° Scale Fact: 1.0027	Miscellaneous Slot: Slot #1 Elev Ref: KB(111.30m above MSL) Date Drawn: 11:19:26AM 18-May-2000

COMPLETION DRAWING



Final Survey

Client: Alberta Energy Company	Survey Computation Method: Minimum Curvature
Field: CARCAJOU (CDN)	DLS Computation Method: Lubinski
Structure: AEC / A-O-74-A/104-N-16	Vertical Section Azimuth: 0.000°
Well: AEC CARCAJOU A-O-74-A/104-N-16	Vertical Section Origin: N 0.000 m, E 0.000 m
Borehole: Job# 40004609	TVD Reference: KB
UWI/API#:	111.3 m above MSL
Date: May 18, 2000	Magnetic Declination: 9.413°
Grid Convergence: 0.00000000°	Total Field Strength: 31246.844 nT
Scale Factor: 1.00269630	Dip: 8.818°
Location: N 0 0 0.000, W 121 29 19.478	Declination Date: April 05, 2000
Coordinate System: NAD83 UTM Zone 11N	Magnetic Declination Model: BGGM 1999
	North Reference: True North
	Coordinate Reference To: Well Head

Station ID	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N-S (m)	E-W (m)	Closure (m)	at Azim (°)	DLS (°/30m)	TF (°)
ie-l n	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0		0.0 M
	486.00	0.00	0.0	486.00	0.00	0.00	0.00	0.00	0.0	0.00	54.1 M
	496.00	1.10	54.1	496.00	0.06	0.06	0.08	0.10	54.1	3.30	52.7 M
	505.70	1.30	52.7	505.70	0.18	0.18	0.24	0.30	53.6	0.63	53.4 M
	515.40	1.20	53.4	515.39	0.30	0.30	0.41	0.51	53.4	0.31	56.9 M
	525.10	1.40	56.9	525.09	0.43	0.43	0.59	0.73	53.9	0.67	63.2 M
	534.80	1.40	63.2	534.79	0.55	0.55	0.80	0.97	55.4	0.48	70.3 M
	544.50	1.80	70.3	544.49	0.65	0.65	1.04	1.23	58.0	1.38	71.0 M
	554.20	2.10	71.0	554.18	0.76	0.76	1.36	1.56	60.7	0.93	71.0 M
	563.90	1.90	71.0	563.87	0.87	0.87	1.68	1.89	62.5	0.62	77.3 M
	573.60	1.10	77.3	573.57	0.95	0.95	1.92	2.14	63.8	2.52	76.6 M
	583.20	1.40	76.6	583.17	0.99	0.99	2.12	2.34	64.9	0.94	49.9 M
	592.90	1.80	49.9	592.86	1.12	1.12	2.36	2.61	64.6	2.58	-22.8 M
	602.60	0.20	337.2	602.56	1.23	1.23	2.46	2.76	63.4	5.42	-7.1 M
	612.30	0.20	352.9	612.26	1.26	1.26	2.46	2.76	62.8	0.17	-107.6 M
	622.00	0.70	252.4	621.96	1.26	1.26	2.40	2.71	62.2	2.36	-127.3 M
	631.70	0.90	232.7	631.66	1.20	1.20	2.28	2.58	62.3	1.04	-119.6 M
	641.40	0.80	240.4	641.36	1.12	1.12	2.16	2.43	62.6	0.47	-125.9 M
	651.10	1.00	234.1	651.06	1.04	1.04	2.03	2.28	63.0	0.69	-123.1 M
	660.70	1.00	236.9	660.66	0.94	0.94	1.90	2.12	63.6	0.15	-144.9 M
	670.40	0.70	215.1	670.36	0.85	0.85	1.79	1.98	64.7	1.35	-149.8 M
	680.10	0.60	210.2	680.06	0.75	0.75	1.73	1.89	66.4	0.35	-159.6 M
	689.80	0.50	200.4	689.76	0.67	0.67	1.69	1.82	68.4	0.42	-154.7 M
	699.50	0.50	205.3	699.46	0.59	0.59	1.66	1.76	70.3	0.13	-146.3 M
	709.10	0.40	213.7	709.06	0.53	0.53	1.62	1.71	72.0	0.37	-142.8 M
	718.80	0.50	217.2	718.76	0.47	0.47	1.58	1.64	73.6	0.32	168.0 M
	728.50	0.40	168.0	728.45	0.40	0.40	1.56	1.61	75.7	1.19	-157.8 M
	735.00	0.40	202.2	734.95	0.36	0.36	1.55	1.59	77.1	1.09	-152.0 M

Station ID	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N-S (m)	E-W (m)	Closure (m)	at Azim (°)	DLS (%/30m)	TF (°)
Extrapolation to TD	748.00	0.40	208.0	747.95	0.27	0.27	1.52	1.54	79.8	0.09	---

Survey Program:

Measured Depth

0.00
748.00

Tool (Wolff & deWardt Error Model)

None
None

Schlumberger

Alberta Energy Corp

JSO#	40004609	Hole Size: 156 mm		Depth in: 487 m		Depth out: 748 m		Mtr. Drig: 261 m		BHA # 1	
Well	AEC Renaissance Carr	Last cas. @	487.0m	Date In	Mar 08 00	Date Out	Mar 11 00	Days	4.0	SPP Off	7700.0 MPa
LSD	200/ A-Q-74-A/ 104-N-1	Bit to Svy.	13.0 m	PDM Run #	1	Drig hrs	46.75 hrs	Circ. Hrs	5.5 hrs	SPP On	9900.0 MPa
Pad ID	Single well	React. Torq.	45	Mot. Vend.	Anadrill	Avg. ROP	5.58 m/hr	Tot. D&C	52.3 hrs	Differential	2200.0 MPa
Field	Carcajou	Rot. Torq	70	R/S conf.	7:8 2.2	verse ROP	10.8 min/m	Pump #	1	Pump #	
Prov.	N W T	Inc. In	1.1 deg	ABH Set	1.15	Slide Dist.	16.5 m	Pump Man.	Emsco	Pump Man.	
Rig	Akita #14	Azm. In	54.1 deg	Motor RPM	120	Rotate Dist.	244.5 m	Pump Type	F-500	Pump Type	
Co. Rep	Steve Holyoake	Inc. Out	0.4 deg	Rot. RPM	50	Slide Hrs.	2.96 hrs	Tri /Dup	Triplex	Tri /Dup	
Rig Man	Logan Wild	Azm. Out	208.0 deg	Avg. WOB	6/8	Rot. Hrs.	43.79 hrs	Stroke	191 mm	Stroke	
DD	Eric Erickson	MWD	Barry Timmerma	BHA Wt.	10000 maN	Slide ROP	5.57 m/hr	Liner	152 mm	Liner	
DD		MWD		String Wt.	28 maN	Rot. ROP	5.23 m/hr	Strks / min	90	Strks / min	
DD		MWD		P/U Wt.	30 maN	Steering	15.8%	Vol(strk)	.0104cu. m	Vol(strk)	
DD		MWD		S/O Wt.	28 maN	Rotate	84.8%	Volume	0.94 m3	Volume	
Mud	Gel	Mud Vis	60 sec/L	Sand		Chlorides		YP		PH	9.0
Mud Wt	1120 kg/cu. m	WL	9.5 cc's	Solid cont		Oil/Water		PV		MWD BHT	29.8 deg./C

Item	#	Description	Vendor	Serial #	Max OD	OD	ID	B. Conn	T. Conn	Length	Cum Len
1	1	MF2 P 3 X15.9	SMITH	LT8146		156			3.5 Reg	0.25	0.25
2	1	4.75 Motor 7:8, 2.2@1.15	Anadrill	475-14-1026	136	121		3.5 Reg	3.5 IF	5.51	5.76
3	1	Float Sub	Anadrill	1312104		119	0.53	3.5 IF	3.5 IF	0.88	6.64
4	1	UBHO Sub	Anadrill	1412193		120	0.59	3.5 IF	3.5 IF	0.66	7.30
5	1	NMDC	Anadrill	2112111		120	0.58	3.5 IF	3.5 IF	9.47	16.77
6	1	NMDC	Anadrill	46300035		121	0.58	3.5 IF	3.5 IF	9.48	26.25
7	10	DC's	Akita			121	0.58	3.5 IF	3.5 IF	94.90	121.15
8	1	X/Over	Akita			121	0.58	3.5 IF	4 FH	0.47	121.62
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Exp.:	Bit condition									
Act.:	Cutting structure B G Remarks									
Com.:	IADC	Inner	Outer	MDC	LOC	BRG	GAUG	ODC	REASON	
	code	rows	rows				1/16		PULLED	
	517									

Make-up Torque: ALL TORQUE'S ARE FOR STEEL, USE 80% FOR MONEL'S. (Divide all torque values by length of long arm)

Drill Collars		Hevi-Wate drill pipe		Motor Nut - Anadrill's Motors	
4.5 H90	23000 ft lb / 31200 N-m	2.9 AOH	3500 ft lb / 4700 Nlm	2.38	890 ft lb / 1200 N-m
4 IF/4.5XH/NC46	22200 ft lb / 30100 N-m	2.9 H90	4600 ft lb / 6200 Nlm	2.87	1650 ft lb / 2200 N-m
4.5 FH	19800 ft lb / 26800 N-m	3.5 IF / NC38	9900 ft lb / 13400 Nlm	3.38	3600 ft lb / 4900 N-m
3.5 IF / NC38	9900 ft lb / 13400 N-m	4 FH / NC40	13250 ft lb / 18000 Nlm	4.75	10000 ft lb / 13600 N-m
2.9 AOH	3500 ft lb / 4700 N-m	4 IF / 4.5 XH / NC46	21800 ft lb / 29800 N-m	6.25	20000 ft lb / 27100 N-m
2.9 H90	4600 ft lb / 6200 N-m	4.5 IF / 5 XH / NC50	29400 ft lb / 39900 N-m	6.75	25000 ft lb / 33900 N-m
PH6	5500 ft lb / 7500 N-m	5.5 FH	33200 ft lb / 45000 N-m	8	35000 ft lb / 47500 N-m
VO55	3750 ft lb / 5100 N-m	6.635 FH	46900 ft lb / 63600 N-m	9.62	3 ft lb / 81300 N-m

TOTAL LENGTH		210.52	TOTAL LENGTH		TARGET TVD @ TIME	
PERSONNEL			APE NUMBER		5000045-9210-320	
DD:	Eric Erickson	MWD:	Barry Timmerman	CONTRACT NUMBER		
DD:		MWD:		FIELD CELL #		CO. MAN'S CELL #
DD:		MWD:		SIGNATURE OF COMPANY'S REPRESENTATIVE		
DD:		MWD:		<i>Steve Kersch</i>		

Schlumberger Anadrill

JOB NUMBER	DATE	COMPANY	WELL NAME
	THUR MARCH, 9, 2000	Alberta Energy Corp	AEC Renaissance Carcajou O-74
COMPANY REPRESENTATIVE	RIG NAME	LOCATION	
Steve Holyoake	Akita #14	Carcajou O-74	

DRILLING RECORD				TIME RECORD		COST ESTIMATE	
BIT NUMBER	1	TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (if not Anadrill)	COST
BIT SIZE	156.0	6.50		6:30	Directional Drill	SUPERVISION 1 @ 700.00	\$ 700.00
BIT TYPE	MF2 P	0.25	6:30	6:45	Rig Service	FLAT RATE	
JETS (mm)	15.9	1.00	6:45	7:45	Directional Drill	MOTOR HRS 23.25 @ 200.00	\$ 4,650.00
DEPTH IN	488 m	0.25	7:45	8:00	Accumulated Surveys	MOTOR DAILY	
DEPTH OUT		0.25	8:00	8:15	Rig Service	MOTOR STBY	
METERS	173 m	7.00	8:15	15:15	Directional Drill	JARS	
HOURS	28.00	0.75	15:15	18:00	Accumulated Surveys	S. SHOT KIT 125.00	
ROP (m/hr)	6.0	0.25	18:00	18:15	Rig Service	FLOAT SUB 1.00 @ 25.00	\$ 25.00
RPM	30/120	7.25	18:15	23:30	Directional Drill	MONEL 2.00 @ 125.00	\$ 250.00
WOB	7/8	0.50	23:30	0:00	Accumulated Surveys	X/Over 25.00	
PP ON	10000					STABILIZERS	
PP OFF	9000					TB REAMER	
STG.WT.	25					MWD SUPER 1.00 @ 800.00	\$ 800.00
PIJ.WT.	25					MWD SYSTEMS 1.00 @ 2800.00	\$ 2,800.00
S/D.WT.	25					GAMMA RAY	
						GAMMA RAY (STDBY)	
						CMPTR & WELL PLAN	
						EQUIPMENT STANDBY	
						SUBSISTENCE (Camp?)	
						CAMP	
						MILEAGE	
						VEH. LIC. #	KM TOYKM ACC
						KM TODAY	0.75 \$
						KM ACCUM.	
						DAILY TOTAL	\$ 9,125.00
						ACCUMULATED	\$ 26,925.00
TEMPERATURE (°C)		24.00	TOTAL				

DOWNHOLE MOTORS															
RUN	MAKE	SER. NO.	Daily			Run			Well			Total		FAILURE? (Yes / No)	
			Drill	Circ	D + C	Drill	Circ	D + C	Drill	Circ	D + C	Drill	Circ		D + C
1	Anadrill	475-14-1028	21.75	1.50	23.25	29.25	3.75	33.00	29.25	3.75	33.00	29.25	3.75	33.00	N

BHA #1				BHA #2				DOWNHOLE JARS						
ITEM	VENDOR	SERIAL#	LENGTH	ITEM	VENDOR	SERIAL#	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D+C	FAILURE?
Bit	Smith	LT8146	0.25											
Motor	Anadrill	475-14-1028	5.51											
Float	Anadrill	1312104	0.88											
UBHO	Anadrill	1412193	0.66											

MWD										Comments									
RUN	COMP.	HRS	Drill	Circ	D+C	FAILURE?													
1	SMA323	24.00	40.00			N													
1	SEA158	24.00	40.00			N													
1	SBA4544	24.00	40.00			N													

TOTAL LENGTH	216.62	TOTAL LENGTH	TARGET TVD @ TIME
PERSONNEL	AFE NUMBER	5000045-9210-320	CONTRACT NUMBER
DD: Eric Erickson	MWD: Barry Thirmerman	FIELD CELL #	ICO. MAN'S CELL #
DD: MWD:	SIGNATURE OF COMPANY'S REPRESENTATIVE		
DD: MWD:	<i>Steve Holyoake</i>		

Schlumberger

DATE FRI MARCH, 10, 2000	COMPANY Alberta Energy Corp	WELL NAME AEC Renaissance Carcajou O-74
COMPANY REPRESENTATIVE Steve Holyoake	RIG NAME Akita #14	LOCATION 200/ A-O-74-A/ 104-N-16/ 00

DRILLING RECORD				TIME RECORD		COST ESTIMATE	
BIT NUMBER	1	TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (if not Anadrig)	COST
BIT SIZE	156.0	1.00	1:00	2:00	Directional Drill 660 m to 664 m	SUPERVISION 1 @ 700.00	\$ 700.00
BIT TYPE	MF2 P	1.00	1:00	2:00	Rig Repair	FLAT RATE	
JETS (mm)	15.9	4.00	2:00	6:00	Directional Drill 664 m to 683 m	MOTOR HRS 19.25 @ 250.00	\$ 4,812.50
DEPTH IN	487 m	0.25	6:00	6:15	Rig Service	MOTOR DAILY	
DEPTH OUT	748 m	1.50	6:15	7:45	Directional Drill 683 m to 690 m	MOTOR STBY	
METERS	261 m	0.25	7:45	8:00	Accumulated Surveys	JARS	
HOURS	48.75	0.25	8:00	8:15	Rig Service	S. SHOT KIT 125.00	
ROP (m/hr)	5.6	7.25	8:15	15:30	Directional Drill 690 m to 724 m	FLOAT SUB 1.00 @ 25.00	\$ 25.00
RPM	30/120	0.50	15:30	16:00	Accumulated Surveys	MONEL 2.00 @ 125.00	\$ 250.00
WOB	716	0.25	16:00	16:15	Rig Service	X/Over 25.00	
PP ON	10000	3.75	16:15	20:00	Directional Drill 724 m to 748 m	STABILIZERS	
PP OFF	9000	0.50	20:00	20:30	Circulate	TB REAMER	
STG WT	28	2.50	20:30	23:00	Wiper Trip	MWD SUPER. 1.00 @ 600.00	\$ 600.00
PIU WT	30	0.50	23:00	23:30	Circulate	MWD SYSTEMS 1.00 @ 2800.00	\$ 2,800.00
S/O WT	28	0.50	23:30	0:00	POOH to Log	GAMMA RAY	
PUMP DATA							
PUMP MAN.	Emaco					GAMMA RAY (STDBY)	
PUMP MOD.	F-500					CMPTR & WELL PLAN	
Triplex/Duplex	Triplex					EQUIPMENT STANDBY	
LINER	152mm						
STROKE	191mm						
CU. M/STK	0.0104						
STKS/Min.	80						
VOLUME	0.94						
MUD REPORT							
MUD TYPE (Gellect.)	Gel						
MUD WEIGHT	1120						
VISCOSITY (sec/L)	80						
WATER LOSS	9.5						
pH	9						
SAND							
TEMPERATURE (°C)	29.8	24.00	TOTAL				

DOWNHOLE MOTORS											
RUN	MAKE	SER. NO.	Daily			Run			Well		
			Drill	Circ	D+C	Drill	Circ	D+C	Drill	Circ	D+C
1	Anadrill	475-14-1028	17.50	1.75	19.25	48.75	5.50	52.25	48.75	5.50	52.25

SHA #				SHA #				DOWNHOLE JARS			
ITEM	VENDOR	SERIAL#	LENGTH	ITEM	VENDOR	SERIAL#	LENGTH	RUN	MAKE	SER. #	FAILURE?
Bit	Smith	LT8148	0.25								
Motor	Anadrill	475-11-1028	5.51								
Float	Anadrill	1312104	0.88								
UBHO	Anadrill	1412193	0.68								
Monel	Anadrill	2112111	9.47								
Monel	Anadrill	46C00035	9.48								
20DC's	Akita	189.80									
X/Over	Akita	0.47									

SHA #				SHA #				DOWNHOLE JARS			
ITEM	VENDOR	SERIAL#	LENGTH	ITEM	VENDOR	SERIAL#	LENGTH	RUN	MAKE	SER. #	FAILURE?
Bit	Smith	LT8148	0.25								
Motor	Anadrill	475-11-1028	5.51								
Float	Anadrill	1312104	0.88								
UBHO	Anadrill	1412193	0.68								
Monel	Anadrill	2112111	9.47								
Monel	Anadrill	46C00035	9.48								
20DC's	Akita	189.80									
X/Over	Akita	0.47									

TOTAL LENGTH	216.62	TOTAL LENGTH	TARGET TVD @ TIME
PERSONNEL	AFE NUMBER	5000048-9210-320	CONTRACT NUMBER
DD: Eric Erickson	MWD: Barry Tureneman	FIELD CELL #	CO. MAN'S CELL #
DD:	MWD:	SIGNATURE OF COMPANY'S REPRESENTATIVE	
DD:	MWD:		

