

AEC OIL & GAS CO. LTD.
POST WELL ANALYSIS REPORT FOR
AEC RENAISSANCE CARCAJOU
0-47-A/104-N-16

NATIONAL ENERGY BOARD
ENGINEERING BRANCH
MAY 29 2000

525 - 3rd Avenue S.W.
Calgary, Alberta
Canada T2P 0G4
Bus (403) 509-4000
Bus (403) 509-4300

Schlumberger

40004654

AEC OIL & GAS CO. LTD.
POST WELL ANALYSIS REPORT FOR
AEC RENAISSANCE CARCAJOU
0-47-A/104-N-16

Job Identification

Alberta Energy Corp

Project ID: AEC Renaissance Carcajou 0-47

Pad ID: Single well

Well ID: AEC Renaissance Carcajou 0-47

Unique ID: 200/ 0-47-A/ 104-N-16/ 00

Operator: Alberta Energy Corp

Address: 3700, 707-8th AVE SW
Calgary, Alberta
T2P-1H5

Co Rep: Allan Anger

Contractor: Akita Drilling

Rig ID: Akita #14

Pusher: Mel Zerr

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: Monday March 20,2000

Release Date: Sunday March 26, 2000

Total Days: 7

Schlumberger

Anadrill

JOB NUMBER

40004654

Well Specifications

Alberta Energy Corp

Well Name: AEC Renaissance Carcajou 0-47

Well Number: 200/ 0-47-A/ 104-N-16/ 00

Field Name: Carcajou

Area: Fort Good Hope

KB level (above sea): 62.00 m

Magnetic Declination

Ground Level (above sea): 57.20 m

31.6

KB to Ground level : 4.80 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: 10.70m

E/-W Coord:

E/-W Coord: 4.47m

TVD:

TVD: 759.74m

Target Radius: vertical

Well Descriptions

Alberta Energy Corp

AEC Renaissance Carcajou 0-47
200/ 0-47-A/ 104-N-16/ 00

Project Description: Proposed

The well is to be drilled to a depth of 775m. With hole deviation problems in the area a mud motor and MWD was run in the hole to keep the hole straight.
This hole is a tight location.

Project Description: Actual

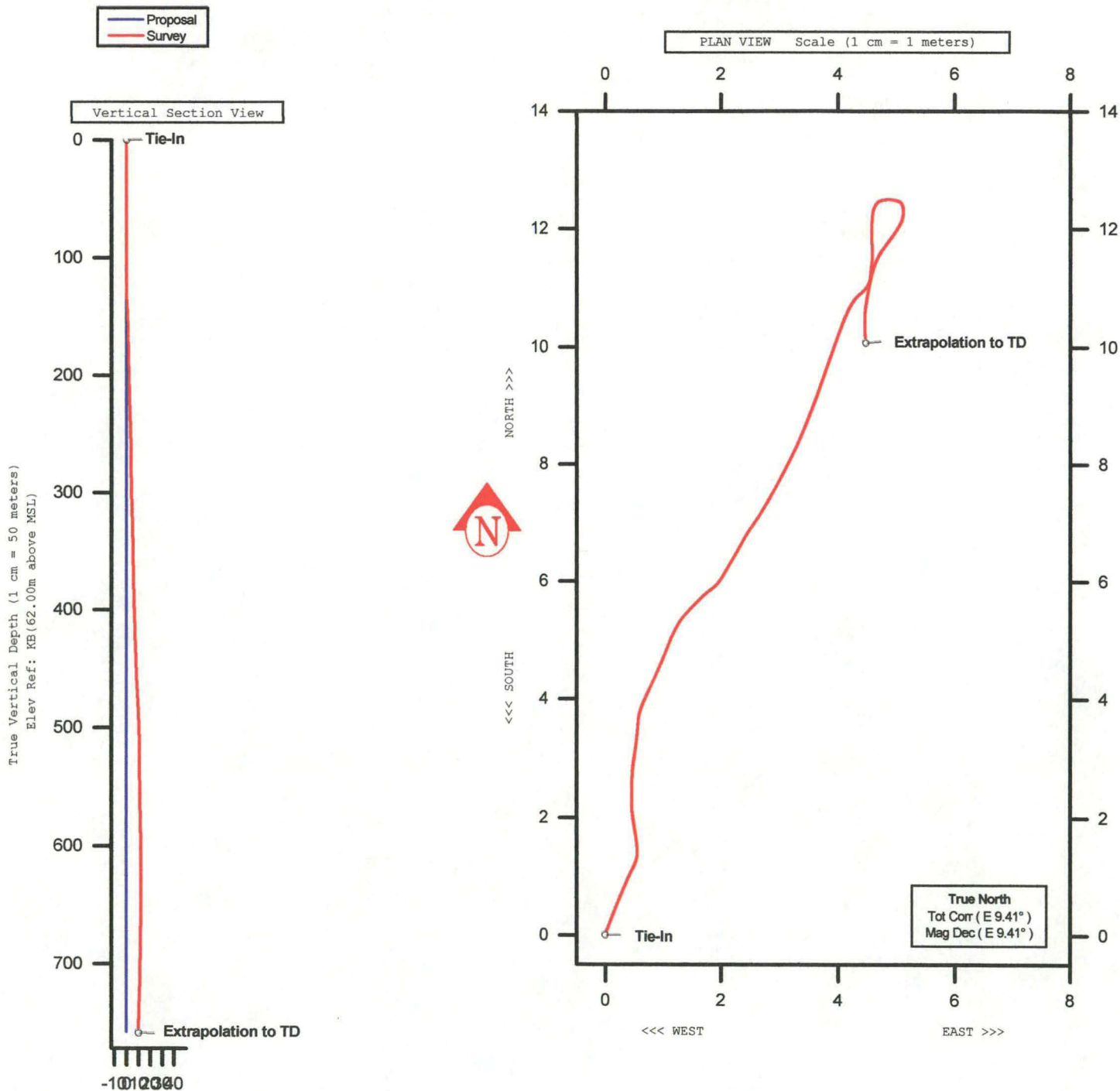
Surface casing was set at a depth 125m before the rig moved on to location. A 6.75" mud motor was run to drill out the cement with a PDC bit and drilled ahead with an average ROP of 19m/hr
Only 3 to 4 decs were carried on the PDC bit. The bit came out of the hole in new shape.
the ROP was very slow while sliding so it was decided to let the inclination get a little bit higher than planned and bring it back with small tools after intermediate casing was set. The casing was set at 3.3 degrees then pulled back to under 1 degree with only 12 meters of slideover three kellys. 19 meters of slide was required on the bottom section of the well. The bottom was drilled with a tricone bit which had some outer row buttons missing but was other wise in good shape.

The TD of the well was called at 760m with 46 hours on the bit.

All the small subs were put in the silver basket , the basket, motors and monels will be shipped out in the summer time on a barge after the river opens up . The tools will be stored with the rig in Norman Wells, the MWD kit will be flown out on Saturday March 25 2000, to Calgary along with Anadrill personal

WELL AEC CARCAJOU 0-47-A/104-N-16	FIELD CARCAJOU (CDN)	STRUCTURE AEC / 0-47-A/104-N-16
Magnetic Parameters Model: BGGM 1999 Dip: 8.818° Mag Dec: 9.413° Date: April 05, 2000 FS: 31247.6 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(62.00m above MSL) Date Drawn: 01:26:04PM 11-May-2000

COMPLETION DRAWING



Final Survey

Client: Alberta Energy Company	Survey Computation Method: Minimum Curvature
Field: CARCAJOU (CDN)	DLS Computation Method: Lubinski
Structure: AEC / 0-47-A/104-N-16	Vertical Section Azimuth: 0.000°
Well: AEC CARCAJOU 0-47-A/104-N-16	Vertical Section Origin: N 0.000 m, E 0.000 m
Borehole: Job# 40004654	TVD Reference: KB
UWVAPI#:	62.0 m above MSL
Date: May 11, 2000	Magnetic Declination: 9.413°
Grid Convergence: 0.00000000°	Total Field Strength: 31247.580 nT
Scale Factor: 1.00269630	Dip: 8.818°
	Declination Date: April 05, 2000
Location: N 0 0 0.000, W 121 29 19.478	Magnetic Declination Model: BGGM 1999
: N 0.000 m, E 0.000 m	North Reference: True North
Coordinate System: NAD83 UTM Zone 11N	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 (°)
0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.0 M
125.00	0.00	0.0	0.0	125.00	0.00	0.00	0.00	0.00	0.0	0.00	21.8 M
139.80	2.80	21.8	139.79	0.34	0.34	0.13	0.36	21.8	5.68	23.9 M	
149.50	2.80	23.9	149.48	0.77	0.77	0.32	0.84	22.4	0.32	27.4 M	
159.10	1.90	27.4	159.07	1.13	1.13	0.49	1.23	23.3	2.85	-0.7 M	
168.90	1.20	359.3	168.87	1.37	1.37	0.56	1.48	22.2	3.10	-7.8 M	
178.60	1.20	352.2	178.57	1.58	1.58	0.54	1.67	19.1	0.46	-9.2 M	
188.30	1.20	350.8	188.27	1.78	1.78	0.51	1.85	16.2	0.09	-9.2 M	
198.00	1.40	350.8	197.96	2.00	2.00	0.48	2.05	13.5	0.62	1.4 M	
207.60	1.50	1.4	207.56	2.24	2.24	0.46	2.28	11.7	0.89	-0.7 M	
217.30	1.40	359.3	217.26	2.48	2.48	0.47	2.53	10.6	0.35	4.2 M	
227.00	1.60	4.2	226.95	2.74	2.74	0.47	2.78	9.8	0.73	9.1 M	
236.70	1.80	9.1	236.65	3.02	3.02	0.51	3.06	9.5	0.76	6.3 M	
246.50	1.70	6.3	246.45	3.32	3.32	0.55	3.36	9.4	0.40	4.2 M	
256.10	1.30	4.2	256.04	3.57	3.57	0.57	3.61	9.1	1.26	16.1 M	
265.80	0.60	16.1	265.74	3.73	3.73	0.59	3.77	9.1	2.24	18.9 M	
275.50	0.70	18.9	275.44	3.83	3.83	0.63	3.88	9.3	0.32	24.6 M	
285.20	1.00	24.6	285.14	3.96	3.96	0.68	4.02	9.8	0.96	26.0 M	
294.80	1.30	26.0	294.74	4.14	4.14	0.76	4.21	10.5	0.94	25.3 M	
304.50	1.50	25.3	304.43	4.35	4.35	0.87	4.44	11.3	0.62	22.8 M	
314.20	1.70	22.8	314.13	4.60	4.60	0.98	4.70	12.0	0.66	21.8 M	
323.90	1.70	21.8	323.83	4.87	4.87	1.09	4.99	12.6	0.09	26.7 M	
333.60	1.80	26.7	333.52	5.14	5.14	1.21	5.28	13.2	0.56	37.9 M	
343.30	1.10	37.9	343.22	5.34	5.34	1.33	5.51	14.0	2.33	44.3 M	
353.00	1.50	44.3	352.92	5.51	5.51	1.48	5.70	15.0	1.31	45.0 M	
362.60	1.50	45.0	362.51	5.69	5.69	1.66	5.92	16.2	0.06	53.4 M	
372.30	1.40	53.4	372.21	5.85	5.85	1.84	6.13	17.5	0.73	32.3 M	
382.00	1.80	32.3	381.91	6.05	6.05	2.02	6.38	18.5	2.18	30.2 M	

Station ID	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N-S (m)	E-W (m)	Closure (m)	at Azim (°)	DLS (°/30m)	TF (°)
	391.60	2.00	30.2	391.50	6.32	6.32	2.18	6.69	19.1	0.66	28.8 M
	401.30	2.10	28.8	401.19	6.62	6.62	2.35	7.03	19.6	0.35	35.1 M
	411.00	2.00	35.1	410.89	6.92	6.92	2.54	7.37	20.1	0.76	30.9 M
	420.70	1.90	30.9	420.58	7.19	7.19	2.72	7.69	20.7	0.54	28.8 M
	430.30	2.10	28.8	430.18	7.48	7.48	2.88	8.02	21.1	0.67	26.8 M
	440.10	2.40	26.8	439.97	7.82	7.82	3.06	8.40	21.4	0.95	26.0 M
	449.70	2.60	26.0	449.56	8.20	8.20	3.25	8.82	21.6	0.63	24.6 M
	451.00	2.50	24.6	450.86	8.25	8.25	3.27	8.88	21.6	2.72	18.9 M
	476.30	3.20	18.9	476.13	9.42	9.42	3.73	10.13	21.6	0.89	19.6 M
	486.00	3.30	19.6	485.81	9.94	9.94	3.91	10.68	21.5	0.33	21.1 M
	495.70	2.50	21.1	495.50	10.40	10.40	4.08	11.17	21.4	2.49	31.6 M
	505.40	1.50	31.6	505.19	10.71	10.71	4.22	11.51	21.5	3.28	50.6 M
	515.10	0.90	50.6	514.89	10.86	10.86	4.35	11.70	21.8	2.20	28.8 M
	534.60	0.60	28.8	534.39	11.05	11.05	4.52	11.94	22.2	0.63	5.6 M
	544.20	0.80	5.6	543.99	11.16	11.16	4.55	12.05	22.2	1.07	6.3 M
	554.00	0.90	6.3	553.79	11.30	11.30	4.56	12.19	22.0	0.31	5.6 M
	563.60	1.00	5.6	563.39	11.46	11.46	4.58	12.34	21.8	0.31	-4.3 M
	573.30	1.20	355.7	573.08	11.65	11.65	4.58	12.52	21.5	0.85	-0.7 M
	583.00	1.50	359.3	582.78	11.88	11.88	4.57	12.73	21.1	0.96	3.5 M
	592.70	1.70	3.5	592.48	12.15	12.15	4.58	12.98	20.7	0.72	28.8 M
	602.40	1.00	28.8	602.18	12.36	12.36	4.63	13.20	20.5	2.79	74.5 M
	612.10	0.80	74.5	611.87	12.46	12.46	4.73	13.33	20.8	2.24	105.4 M
	631.40	0.80	105.4	631.17	12.46	12.46	4.99	13.42	21.8	0.66	140.6 M
	641.10	0.40	140.6	640.87	12.41	12.41	5.08	13.41	22.3	1.63	172.2 M
	650.80	0.80	172.2	650.57	12.32	12.32	5.11	13.34	22.5	1.56	-168.1 M
	660.50	0.90	191.9	660.27	12.18	12.18	5.10	13.20	22.7	0.95	-149.8 M
	670.10	0.90	210.2	669.87	12.04	12.04	5.05	13.06	22.8	0.89	-142.1 M
	689.50	1.10	217.9	689.27	11.76	11.76	4.86	12.73	22.5	0.37	-144.9 M
	699.10	1.10	215.1	698.86	11.61	11.61	4.75	12.55	22.3	0.17	-170.2 M
	728.10	1.70	189.8	727.86	10.96	10.96	4.52	11.86	22.4	0.88	-170.9 M
	737.80	1.60	189.1	737.55	10.69	10.69	4.47	11.58	22.7	0.32	-179.8 M
	747.00	1.60	180.2	746.75	10.43	10.43	4.45	11.34	23.1	0.81	175.0 M
Extrapolation to TD	760.00	1.60	175.0	759.74	10.07	10.07	4.47	11.01	23.9	0.33	---

Survey Program:

Measured Depth

0.00

760.00

Tool (Wolff & deWardt Error Model)

None

None

Schlumberger Anadrill BHA Data Sheet											
Alberta Energy Corp											
J SO#	40004654		Hole Size: 222 mm	Depth in: 125 m	Depth out: 465 m	Mtr. Drlg 340 m	BHA # 1				
Well	AEC Renaissance Carcajou	Last cas. @	125.0m	Date In	Mar 20 00	Date Out	Mar 21 00	Days	2.0	SPP Off	4100.0 MPa
LSD	200/ 0-47-A/ 104-N-16/ 00	Bit to Svy.	14.0 m	PDM Run #	1	Drlg hrs	17.75 hrs	Circ. Hrs	3.8 hrs	SPP On	6500.0 MPa
Pad ID	Single well	React. Torq.	60	Mot. Vend.	Vector	Avg. ROP	19.15 m/hr	Tot. D&C	21.5 hrs	Differential	2400.0 MPa
Field	Carcajou	Rot. Torq	300	R/S conf.	7:8 3.0	Inverse ROP	3.1 min/m	Pump #	1	Pump #	
Prov.	N W T	Inc. In	0.3 deg	ABH Set	1.5	Slide Dist.	23.0 m	Pump Man.	Emsco	Pump Man.	
Rig	Akita #14	Azm. In	21.8 deg	Motor RPM	100	Rotate Dist.	317.0 m	Pump Type	F-500	Pump Type	
Co.Rep	Allan Anger	Inc. Out	2.5 deg	Rot. RPM	50	Slide Hrs.	1.20 hrs	Tri /Dup	Triplex	Tri /Dup	
Rig Man	Mel Zerr	Azm. Out	24.6 deg	Avg. WOB	3/4	Rot. Hrs.	16.55 hrs	Stroke	191 mm	Stroke	
DD	Eric Erickson	MWD	Barry Timmerman	BHA Wt.	8 maN	Slide ROP	19.17 m/hr	Liner	152 mm	Liner	
DD		MWD		String Wt	22 maN	Rot. ROP	20.54 m/hr	Strks / min	120	Strks / min	
DD		MWD		P/U Wt.	22 maN	Steering	6.8%	Vol(strk)	.0104cu. m	Vol(strk)	
DD		MWD		S/O Wt.	22 maN	Rotate	93.2%	Volume	1.25 m3	Volume	
Mud	Floc	Mud Vis	28 sec/L	Sand		Chlorides		YP		PH	9.0
Mud Wt	1000 kg/cu. m	WL		Solid cont		Oil/Water		PV		MWD BHT	26.3 deg./C
Item	#	Description	Vendor	Serial #	Max OD	OD	ID	B. Conn	T. Conn	Length	Cum Len
1	1	SS66L 4x11.1 1x12.7	BR	1962520A		222			4.5Reg	0.25	0.25
2	1	6.75 Motor 7:8 3.0 @1.50	Vector	3109-67198	193	171		4.5Reg	4.5H90	7.06	7.31
3	1	Float Sub	Anadrill	1316580		165	75	4.5H90	4.5H90	0.77	8.08
4	1	UBHO Sub	Anadrill	1416562		161	72	4.5H90	4.5H90	0.63	8.71
5	1	NMDC	Anadrill	1916539		170	72	4.5H90	4.5H90	9.21	17.92
6	1	X/Over	Anadrill	1216576		171	69	4.5H90	4.5XH	0.62	18.54
7	7	DC,S	Akita			171	70	4.5XH	4.5XH	64.83	83.37
8	1	X/Over	Akita			170	69	4.5XH	4.FH	0.92	84.29
9		Drill Pipe to Surface	Akita			102		4FH	4FH		
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
Exp. : Act. : Com. : Bit condition Cutting structure B G Remarks IADC code PDC Inner Outer rows rows MDC LOC BRG GAUG ODC REASON 1/16 PULLED											
Make-up Torque ALL TORQUE'S ARE FOR STEEL, USE 80% FOR MONEL'S; (Divide all torque values by length of tong 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 NIm		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 NIm		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 NIm		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 NIm		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 / 29600 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	30000 ft lb / 41000 N-m				

Schlumberger Anadrill											
Alberta Energy Corp											
JSC#	40004654	Hole Size: 150 mm	Depth in: 403 m	Depth out: 700 m	Mtr. Drig: 297 m	BHA # 2					
Well	AEC Renaissance Carcajou C	Last cas. @	463.0m	Date In	Mar 22 00	Date Out	Mar 24 00	Days	3.0	SPP Off	8200.0 MPa
LSD	200/ 0-47-A/ 104-N-16/ 00	Bit to Svy.	13.0 m	PDM Run #	2	Drig hrs	46. hrs	Circ. Hrs	4.0 hrs	SPP On	10000.0 MPa
Pad ID	Single well	React. Torq.	45	Mot. Vend.	Anadrill	Avg. ROP	6.46 hrs	Tot. D&C	50.0 hrs	Differential	1800.0 MPa
Field	Carcajou	Rot. Torq	200	R/S conf.	7:9 2.2	Average ROP	9.29 m/hr	Pump #	1	Pump #	
Prov.	N W T	Inc. In	2.5 deg	ABH Set	1.15	Slide Dist.	19.0 m	Pump Man.	Emsco	Pump Man.	
Rig	Akita #14	Azm. In	24.6 deg	Motor RPM	140	Rotate Dist.	278	Pump Type	F-500	Pump Type	
Co.Rep	Allan Anger	Inc. Out	1.6 deg	Rot. RPM	20	Slide Hrs.	2.48 hrs	Tri /Dup	Triplex	Tri /Dup	
Rig Man	Mel Zerr	Azm. Out	180.2 deg	Avg. WOB	8/10	Rot. Hrs.	43.52 hrs	Stroke	191 mm	Stroke	
DD	Eric Erickson	MWD	Barry Timmerma	BHA Wt.	11 maN	Slide ROP	7.68 m/hr	Liner	152 mm	Liner	
DD		MWD		String Wt	28 maN	Rot. ROP	6.39 m/hr	Strks / min	90	Strks / min	
DD		MWD		P/U Wt.	28 maN	Steering	6.4%	Vol(strk)	.0104cu. m	Vol(strk)	
DD		MWD		S/O Wt.	28 maN	Rotate	93.6%	Volume	0.94 m3	Volume	
Mud	Gel	Mud Vis	45 sec/L	Sand		Chlorides		YP		PH	9.5
Mud Wt	1100 kg/cu. m	WL	9.0 cc's	Solid cont		Oil/Water		PV		MWD BHT	37.7 deg./C
Item	#	Description	Vendor	Serial #	Max OD	OD	ID	B. Conn	T. Conn	Length	Cum Len
1	1	XR20TP Open	Smith	LX2708		156			3.5 Reg	0.25	0.25
2	1	4.75 Motor: 7:9 ,2.2@1.15	Anadrill	475 14 1025	136	121		3.5 Rcg	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	20	DC's	Akita			121	0.58	3.5 IF	3.5 IF	189.74	215.99
8	1	X/Over	Akita			121	0.58	3.5 IF	4 FH	0.47	216.46
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
Exp. : Act. : Com.: Bit condition Cutting structure IADC code Inner rows Outer rows MDC LOC BRG GAUG B G REASON 1/16 PULLED Remarks											
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 / 29600 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	33 ft lb / 81300 N-m		

90610 449781 414097

Schlumberger

JOB NUMBER 4104654	DATE MON MARCH 20, 2000	COMPANY Alberta Energy Corp	WELL NAME AEC Renaissance Carcajou 0-47
COMPANY REPRESENTATIVE Allan Anger	RIG NAME Akita #14	LOCATION 200/ 0-47-A/ 104-N-16/ 00	

DRILLING RECORD			TIME RECORD		COST ESTIMATE	
BIT NUMBER	1	TIME	FROM	TO	DESCRIPTION	COST
BIT SIZE	222.0	4.00		4:00	Nipple up BOP's	
BIT TYPE	POC	4.00	4:00	8:00	Jet Rathole	
JETS (mm)		2.00	8:00	10:00	Pressure Test	
DEPTH IN	125 m	1.00	10:00	11:00	Winterize Manifold	
DEPTH @ MIDNIGHT	308 m	1.00	11:00	12:00	Make up BHA & RIH	
METERS	183 m	2.50	12:00	14:30	Pressure Test	
HOURS	6.50	0.25	14:30	14:45	Rig Service	
ROP (m/hr)	28.2	0.25	14:45	15:00	BOP Drill	
RPM	50/100	1.50	15:00	16:30	Drill out Shoe	
WOB	3/4	0.25	16:30	16:45	Formation Leak off Test	
PP ON	8500	0.25	16:45	17:00	BOP Drill	
PP OFF	4100	6.50	17:00	23:30	Directional Drill 125 m to 308 m	
STG WT	19	0.50	23:30	0:00	Accumulated Surveys	
P/U WT	19					
S/O WT	19					
PUMP DATA						
PUMP MAN.	Emsco					
PUMP MOD.	F-500					
Triplex/Duplex	Triplex					
LINER	152mm					
STROKE	191mm					
CU. M/STK	0.0104					
STRKS/Min.	120					
VOLUME	1.25					
MUD REPORT						
MUD TYPE (Gel, etc.)	Floc					
MUD WEIGHT	1000					
VISCOSITY (sec/L)	28					
WATER LOSS						
pH	9					
SAND						
TEMPERATURE (°C)	20.3	24.00	TOTAL			

DOWNHOLE MOTORS															
RUN	MAKE	SER. NO.	Daily			Run			Well			Total			FAILURE?
			Drill	Circ	D +C	Drill	Circ	D +C	Drill	Circ	D +C	Drill	Circ	D +C	(Yes / No)
1	Vector	3109-67198-10	6.50	2.00	8.50	6.50	2.00	8.50	6.50	2.00	8.50	6.50	2.00	96.75	N

BHA # 1				BHA # 2				DOWNHOLE JARS						
ITEM	VENDER	SERIAL#	LENGTH	ITEM	VENDER	SERIAL#	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D +C	FAILURE?
Bit	BR	1962520A	0.25											
Motor	Vector	3109-10	7.06											
Float	Anadrill	131658d	0.77											
UBHO	Anadrill	1416582	0.63											
Monel	Anadrill	1916539	9.21											
X/Over	Anadrill	1216576	0.62											
7DC's	Akita		64.83											
X/Over	Akita		0.92											

TOTAL LENGTH	84.29	TOTAL LENGTH		TARGET TVD @ TIME	
DD: Eric Erickson	MWD: Barry Timmerman	AFE NUMBER	5000049-9210-320	CONTRACT NUMBER	
DD:	MWD:	FIELD CELL #		CO. MAN'S CELL #	
DD:	MWD:	SIGNATURE OF COMPANY'S REPRESENTATIVE			
DD:	MWD:				

750

1785

720

550

7650

6590

6590

Comments
The jets in the PDC bit are 4x11.1 1x12.7

Schlumberger

JOB NUMBER 4004654	DATE TUE MARCH 21, 2000	COMPANY Alberta Energy Corp	WELL NAME AEC Renaissance Carcajou 0-47
COMPANY REPRESENTATIVE Allan Anger	RIG NAME Akita #14	LOCATION 200/ 0-47-A/ 104-N-16/ 00	

DRILLING RECORD				TIME RECORD				COST ESTIMATE			
BIT NUMBER	1	TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (If not Anadrill)	GOST				
BIT SIZE	222.0	0.25		0:15	Rig Service	SUPERVISION 1 @ 700.00	\$ 700.00				
BIT TYPE	PDC	0.25	0:15	0:30	BOP Drill	FLAT RATE 2110					
JETS (mm)		7.25	0:30	7:45	Directional Drill 308 m to 415 m	MOTOR HRS 13.00 @ 200.00	\$ 2,600.00				
DEPTH IN	125 m	0.25	7:45	8:00	Accumulated Surveys	MOTOR DAILY					
DEPTH @ MIDNIGHT	485 m	0.25	8:00	8:15	Rig Service	MOTOR STBY					
METERS	340 m	3.25	8:15	11:30	Directional Drill 415 m to 454 m	JARS					
HOURS	17.75	0.75	11:30	12:15	Circulate	S. SHOT KIT 125.00					
ROP (m/hr)	19.2	1.50	12:15	13:45	Wiper Trip	UBHO SUB 1 25.00	\$ 25.00				
RPM	50/100	0.75	13:45	14:30	Directional Drill 454 m to 465 m	MONEL 1 125.00	\$ 125.00				
WOB	3/4	0.25	14:30	14:45	Accumulated Surveys						
PP ON	8500	0.50	14:45	15:15	Circulate	STABILIZERS					
PP OFF	4100	1.25	15:15	16:30	POOH	TB REAMER					
STG WT	22	1.00	16:30	17:30	Lay out Directional Tools	MWD SUPER. 1 @ 500.00	\$ 500.00				
P/U WT	22	2.25	17:30	19:45	Run Casing	MWD SYSTEMS 1 2900.00	\$ 2,900.00				
S/O WT	22	0.75	19:45	20:30	Circulate	GAMMA RAY					
PUMP DATA		1.00	20:30	21:30	Cement Casing	GAMMA RAY (STDBY)					
PUMP MAN.	Emasco	2.50	21:30	0:00	WOC	CMPTR & WELL FILE 350.00					
PUMP MOD.	F-500					MWD STANDBY 1000.00					
Triplex/Duplex LINER	Triplex 152mm										
STROKE	191mm										
CU. M/STK	0.0104										
STRKS/Min.	120										
VOLUME	1.25										
MUD REPORT						SUBSISTENCE (Camp?)					
MUD TYPE (Gcl.ect.)	Floc					No camp	75.00				
MUD WEIGHT	1000										
VISCOSITY (sec/L)	28										
WATER LOSS											
pH	9										
SAND											
TEMPERATURE (°C)	24.00	TOTAL									

DOWNHOLE MOTORS																
RUN	MAKE	SER. NO.	Daily			Run			Well			Total			FAILURE?	
			Drill	Circ	D+C	Drill	Circ	D+C	Drill	Circ	D+C	Drill	Circ	D+C		
1	Vector	3109-67198-10	11.25	1.75	13.00	17.73	3.75	21.50	17.75	3.75	21.50	17.75	3.75	109.75	N	

BHA #1				BHA #2				DOWNHOLE JARS							
ITEM	VENDOR	SERIAL#	LENGTH	ITEM	VENDOR	SERIAL#	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D+C	FAILURE?	
Bit	BR	1862520A	0.25												
Motor	Vector	3109-10	7.08												
Float	Anadrill	1316580	0.77												
UBHO	Anadrill	1419582	0.83												
Monel	Anadrill	1916539	9.21												
X/Over	Anadrill	DKR-480	0.82												
13DC's	Akita		120.50												
X/Over	Akita		0.92												

TOTAL LENGTH		139.96	TOTAL LENGTH			TARGET TVD @ TIME		
PERSONNEL				AFE NUMBER		CONTRACT NUMBER		
DD: Eric Erickson	MWD: Barry Timmerman	FIELD CELL #		CO. MAN'S CELL #				
DD: MWD:	SIGNATURE OF COMPANY'S REPRESENTATIVE							
DD: MWD:								

750
2740

30

650
20007.85
13775

Schlumberger										Day 3									
JOB NUMBER			DATE			COMPANY			WELL NAME										
40004654			WED MARCH 22, 2000			Alberta Energy Corp			AEC Renaissance Carcajou 0-47										
COMPANY REPRESENTATIVE						R/O NAME			LOCATION										
Allan Anger						Akita #14			200/ 0-47-A/ 104-N-16/ 00										
DRILLING RECORD						TIME RECORD						COST ESTIMATE							
BIT NUMBER		2		TIME		FROM		TO		DESCRIPTION		LIST SUPPLIER (if not Anadrill)		COST					
BIT SIZE		158.0		3.50		3:30		5:45		WOC		SUPERVISION 1 @ 700.00		\$ 700.00					
BIT TYPE		XR20TP		2.25		3:30		5:45		Make up BHA & RIH		FLAT RATE 210							
JETS (mm)		Open		0.75		5:45		6:30		Pressure Test		MOTOR HRS 16.75 @ 200.00		\$ 3,350.00					
DEPTH IN		485 m		1.50		6:30		8:00		Drill out Shoe		MOTOR DAILY							
MIDNIGHT DEPTH		588 m		0.25		8:00		8:15		BOP Drill		MOTOR STBY							
METERS		101 m		7.50		8:15		15:45		Directional Drill 485 m to 513 m		JARS							
HOURS		14.75		0.25		15:45		16:00		Accumulated Surveys		S. SHOT KIT 125.00							
ROP (m/hr)		6.9		0.25		16:00		16:15		Rig Service		UBHO SUB 1 25.00		\$ 25.00					
RPM		20/140		3.50		16:15		18:45		Directional Drill 513 m to 537 m		MONEL 2 125.00		\$ 250.00					
WOB		8/10		0.25		19:45		20:00		BOP Drill									
PP ON		8500		3.75		20:00		23:45		Directional Drill 537 m to 566 m		STABILIZERS							
PP OFF		8800		0.25		23:45		0:00		Accumulated Surveys		TB REAMER							
STG WT		24										MWD SUPER. 1 @ 500.00		\$ 500.00					
PIU WT		24										MWD SYSTEMS 1 2900.00		\$ 2,900.00					
S/O WT		24										GAMMA RAY							
PUMP DATA												GAMMA RAY (STD BY)							
PUMP MAN.		Emaco										CMPTR & WELL FILE 350.00							
PUMP MOD.		F-500										MWD STANDBY 1000.00							
Triplex/Duplex		Triplex																	
LINER		152mm																	
STROKE		191mm																	
CU. M/STRK		0.0104																	
STRKS/MIN.		90																	
VOLUME		0.94																	
MUD REPORT												SUBSISTENCE (Camp?)							
MUD TYPE (Gel, etc.)		Gel										No camp 75.00							
MUD WEIGHT		1050																	
VISCOSITY (sec/L)		46																	
WATER LOSS		9																	
PH																			
SAND																			
TEMPERATURE (°C)		25.3		24.00		TOTAL													
DOWNHOLE MOTORS																			
RUN		MAKE		SER. NO.		Daily		Run		Well		Total		FAILURE?					
						Drill		Circ		D+C		Drill		Circ		D+C			
1		Anadrill		475-14-1028		14.75		1.75		16.50		14.74		1.75		16.50			

Schlumberger																			
JOB NUMBER 40004654		DATE THUR MARCH 23, 2000		COMPANY Alberta Energy Corp		WELL NAME AEC Renaissance Carcajou 0-47													
COMPANY REPRESENTATIVE Allan Anger				RIO NAME Akita #14		LOCATION 200/ 0-47-A/ 104-N-18/ 00													
Day 4																			
DRILLING RECORD					TIME RECORD					COST ESTIMATE									
BIT NUMBER	2	TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (if not Anadri)	COST												
BIT SIZE	156.0	1.00		1:00	Directional Drill 566 m to 578 m	SUPERVISION 1 @ 700.00	\$ 700.00			750									
BIT TYPE	XR20TP	0.25	1:00	1:15	Rig Service	FLAT RATE 210				4882.50									
JETS (mm)	Open	8.50	1:15	7:45	Directional Drill 578 m to 630 m	MOTOR HRS 23.25 @ 200.00	\$ 4,650.00												
DEPTH IN	485 m	0.25	7:45	8:00	Accumulated Surveys	MOTOR DAILY													
MIDNIGHT DEPTH	712 m	0.25	8:00	8:15	Rig Service	MOTOR STBY													
METERS	247 m	7.50	8:15	15:45	Directional Drill 630 m to 673 m	JARS													
HOURS	37.25	0.25	15:45	16:00	Accumulated Surveys	S. SHOT KIT 125.00													
ROP (m/hr)	8.6	0.25	16:00	16:15	Rig Service	UBHO SUB 1 25.00	\$ 25.00			30									
RPM	20/140	7.50	16:15	23:45	Directional Drill 673 m to 712 m	MONEL 2 125.00	\$ 250.00												
WOB	B/D	0.25	23:45	0:00	Accumulated Surveys														
PP ON	8800					STABILIZERS													
PP OFF	8800					TB REAMER													
STG WT	24					MWD SUPER. 1 @ 500.00	\$ 500.00			550									
PAI WT	24					MWD SYSTEMS 1 2900.00	\$ 2,900.00			3000									
S/O WT	24					GAMMA RAY													
PUMP DATA					GAMMA RAY (STDBY)														
PUMP MAN.	Emasco					CMPT & WELL FILE 350.00													
PUMP MOD.	F-500					MWD STANDBY 1000.00													
Triplex/Duplex	Triplex																		
LINER	152mm																		
STROKE	191mm					SUBSISTENCE (Camp?)													
CU. M/STRK	0.0104					No camp 75.00													
STRKS/Min.	90					MILEAGE													
VOLUME	0.94					VEH. LIC. # KM TDYKM ACC													
MUD REPORT																			
MUD TYPE (Gellect.)	Gel																		
MUD WEIGHT	1100																		
VISCOSITY (sec/L)	45																		
WATER LOSS	11					KM TODAY 0.75	\$												
pH	9					KM ACCUM.													
SAND						DAILY TOTAL	\$ 9,026.00			91163.50									
TEMPERATURE (°C)	26.3	24.00	TOTAL			ACCUMULATED	\$29,800.00			317445.5									
DOWNHOLE MOTORS																			
RUN	MAKE	SER. NO.	Daily	Drill	Circ	D+C	Run	Drill	Circ	D+C	Well	Drill	Circ	D+C	Total	Drill	Circ	D+C	FAILURE?
1	Anadri	475-14-1028	22.50	0.75	23.25	37.25	2.50	39.75	37.25	2.50	39.75	37.25	2.50	39.75	37.25	2.50	132.50		N
BHA # 1										BHA # 2									
ITEM	VENDOR	SERIAL #	LENGTH	ITEM	VENDOR	SERIAL #	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D+C	FAILURE?					
Bit	Smith	LX2708	0.25																
Motor	Anadri	475-14-1028	5.51																
Float	Anadri	1312104	0.88																
UBHO	Anadri	1412193	0.66																
Monel	Anadri	2112111	9.47																
Monel	Anadri	483000035	9.48																
20DC's	Akita		189.74																
X/Over	Akita		0.47																
TOTAL LENGTH 216.46										TOTAL LENGTH									
TARGET TVD @ TIME																			
DD: Eric Erickson										MWD: Barry Timmerman									
DD: MWD:										MWD:									
DD: MWD:										MWD:									
DD: MWD:										MWD:									
AFN NUMBER 5000049-9210-320										CONTRACT NUMBER									
FIELD CELL #										CO. MAN'S CELL #									
SIGNATURE OF COMPANY'S REPRESENTATIVE																			
Allan Anger																			

