

AEC OIL & GAS LTD.
POST WELL ANALYSIS REPORT FOR
AEC TATE LAKE
G-18-64-30-125-15

NATIONAL ENERGY BOARD
EMERGENCY RESPONSE
MAY 29 2000

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Schlumberger

40004524

AEC OIL & GAS LTD.
POST WELL ANALYSIS REPORT FOR
AEC TATE LAKE
G-18-64-30-125-15

Job Identification

Alberta Energy Corp

Project ID: AEC Renaissance Tate G-18
Pad ID: Single well
Well ID: AEC Renaissance Tate G-18
Unique ID: Tate Lake G-18

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

Contractor: Akita Drilling
Rig ID: Akita #51
Pusher: Rick Parker

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: Friday Feb,18,2000
Release Date: Sunday March ,5,2000
Total Days: 17

Well Specifications

Alberta Energy Corp

Well Name: AEC Renaissance Tate G-18

Well Number: Tate Lake G-18

Field Name: Tate Lake

Area: Fort Norman

KB level (above sea):	390.40 m	Magnetic Declination
Ground Level (above sea):	386.00 m	30.7
KB to Ground level :	4.40 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: 0.68m

E/-W Coord:

E/-W Coord: 1.54m

TVD:

TVD: 2011.03m

Target Radius: vertical

Well Descriptions

Alberta Energy Corp

AEC Renaissance Tate G-18
Tate Lake G-18

Project Description: Proposed

The well was to be a straight well, under 3 degrees .

The total depth of the well is to be 2200m

Project Description: Actual

We arrived on the 19th of Feb and were on stand by till the 22nd and picked up tools at 2:00 in the afternoon and drilled out the shoe at midnight

The bit #1 was pulled at a depth of 1273 with 51.75 hours on it , the bit was drilling at 8m per hour

The second bit was pulled at 1491m with 20.75 hours ROP was down to 2.2m /hour with all kinds of bounce, there was no shock sub in the string so one was put in the string just above our X/Over sub, it worked very well at reducing bounce

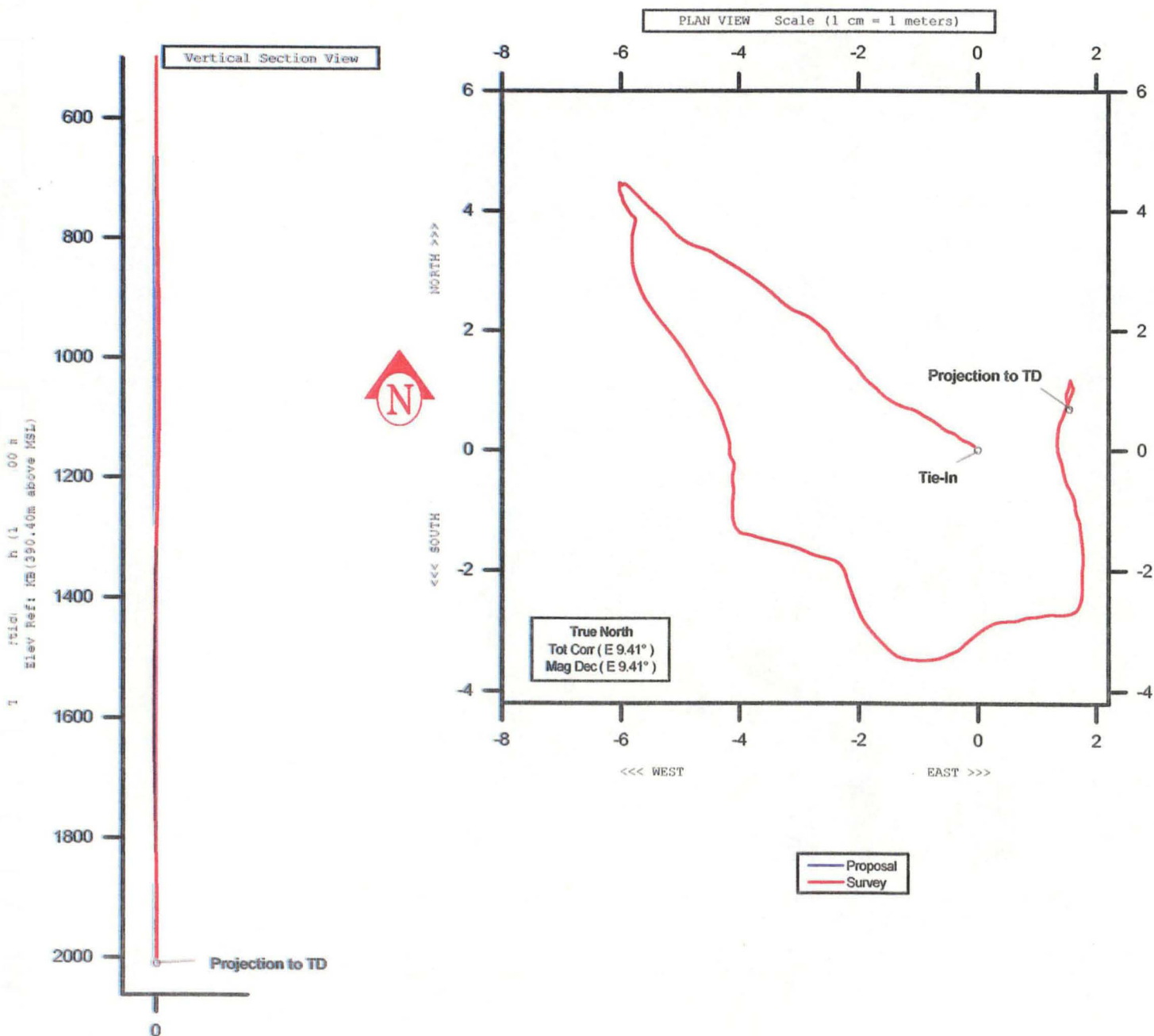
The formations have been coming in 200m high, and core point was not called.

Bit run #3 was pulled at 1768m with 55.5 hours on it. The bit came out of the hole in good shape another F37P was choose to run back in the hole with. Once back on bottom the ROP took off going up to 30m/ hour, the mud got very clobbered and was treated for anhydrate, but the problem turned out to be salt contamination (168000ppm chlorides)

The TD of the well was at 2030m. The motor had 50.25 hours on it and will be flushed out with fresh water once out of the hole.

WELL AEC TATE LAKE G-18-64-30-125-15	FIELD TATE LAKE (CDN)	STRUCTURE AEC / G-18-64-30-125-15
Magnetic Parameters Model: BGGM 1999 Dip: 8.819° Mag Dec: 9.413° Date: April 05, 2000 FS: 31242.7 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(390.40m above MSL) Date Drawn: 06:45:03AM 24-May-2000

COMPLETION DRAWING



Final Survey

Client: Alberta Energy Company	Survey Computation Method: Minimum Curvature
Field: TATE LAKE (CDN)	DLS Computation Method: Lubinski
Structure: AEC / G-18-64-30-125-15	Vertical Section Azimuth: 0.000°
Well: AEC TATE LAKE G-18-64-30-125-15	Vertical Section Origin: N 0.000 m, E 0.000 m
Borehole: Job# 40004524	TVD Reference: KB
UWI/API#:	390.4 m above MSL
Date: May 24, 2000	Magnetic Declination: 9.413°
Grid Convergence: 0.00000000°	Total Field Strength: 31242.733 nT
Scale Factor: 1.00269630	Dip: 8.819°
	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 (°)
ie-In	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.0		0.0 M
	586.00	0.00	0.0	586.00	0.00	0.00	0.00	0.00	0.0	0.00	-55.1 M
	594.90	1.10	304.9	594.90	0.05	0.05	-0.07	0.09	304.9	3.71	-71.3 M
	604.50	0.80	288.7	604.50	0.12	0.12	-0.21	0.24	300.5	1.25	-48.0 M
	614.20	1.10	312.0	614.20	0.21	0.21	-0.34	0.40	301.2	1.49	-72.0 M
	621.00	1.10	288.0	621.00	0.27	0.27	-0.45	0.53	300.9	2.02	-49.5 M
	632.40	0.90	310.5	632.39	0.36	0.36	-0.63	0.72	300.1	1.15	-55.8 M
	642.10	0.90	304.2	642.09	0.46	0.46	-0.75	0.87	301.4	0.31	-65.6 M
	651.60	0.70	294.4	651.59	0.52	0.52	-0.86	1.01	301.2	0.76	-55.1 M
	661.00	1.10	304.9	660.99	0.60	0.60	-0.99	1.15	301.1	1.38	-77.6 M
	670.50	1.10	282.4	670.49	0.67	0.67	-1.15	1.33	300.1	1.36	-64.9 M
	680.30	1.30	295.1	680.29	0.74	0.74	-1.34	1.53	298.7	1.02	-43.1 M
	699.60	1.10	316.9	699.58	0.96	0.96	-1.67	1.93	300.0	0.77	-55.1 M
	709.00	0.90	304.9	708.98	1.07	1.07	-1.79	2.09	300.9	0.92	-38.9 M
	718.60	1.10	321.1	718.58	1.19	1.19	-1.91	2.25	301.9	1.08	-34.3 M
	728.00	0.90	325.7	727.98	1.32	1.32	-2.01	2.40	303.3	0.69	-45.7 M
	737.60	0.80	314.3	737.58	1.43	1.43	-2.10	2.54	304.2	0.61	-44.5 M
	747.20	1.10	315.5	747.18	1.54	1.54	-2.21	2.69	304.8	0.94	-34.0 M
	766.30	0.90	326.0	766.27	1.79	1.79	-2.42	3.02	306.5	0.42	-25.4 M
	775.80	0.50	334.6	775.77	1.89	1.89	-2.48	3.12	307.3	1.30	-48.8 M
	785.50	1.10	311.2	785.47	1.99	1.99	-2.57	3.25	307.8	2.08	-51.6 M
	795.10	1.30	308.4	795.07	2.12	2.12	-2.73	3.45	307.9	0.65	-63.5 M
	804.60	1.10	296.5	804.57	2.23	2.23	-2.89	3.65	307.6	1.01	-72.0 M
	813.50	0.80	288.0	813.47	2.29	2.29	-3.03	3.79	307.1	1.11	-53.7 M
	822.70	1.20	306.3	822.66	2.36	2.36	-3.17	3.95	306.7	1.65	-46.6 M
	832.30	1.10	313.4	832.26	2.49	2.49	-3.31	4.14	306.9	0.54	-50.9 M
	841.90	1.20	309.1	841.86	2.61	2.61	-3.46	4.34	307.1	0.41	-50.9 M
	851.50	1.10	309.1	851.46	2.73	2.73	-3.61	4.53	307.2	0.31	-55.8 M

Station ID	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N-S (m)	E-W (m)	Closure (m)	at Azim (°)	DLS (°/30m)	TF (°)
	861.10	1.30	304.2	861.06	2.85	2.85	-3.77	4.73	307.1	0.70	-55.8 M
	870.00	1.30	304.2	869.95	2.97	2.97	-3.94	4.93	307.0	0.00	-60.0 M
	879.60	1.40	300.0	879.55	3.09	3.09	-4.13	5.16	306.8	0.44	-60.7 M
	889.20	1.10	299.3	889.15	3.19	3.19	-4.31	5.36	306.5	0.94	-52.3 M
	898.80	0.40	307.7	898.75	3.26	3.26	-4.42	5.49	306.4	2.21	-59.3 M
	908.00	0.40	300.7	907.95	3.29	3.29	-4.47	5.55	306.4	0.16	-70.5 M
	917.60	0.90	289.5	917.55	3.34	3.34	-4.57	5.66	306.1	1.60	-72.7 M
	927.60	1.00	287.3	927.55	3.39	3.39	-4.73	5.82	305.6	0.32	-61.4 M
	936.70	1.10	298.6	936.64	3.45	3.45	-4.88	5.98	305.3	0.76	-39.2 M
	955.80	1.40	320.8	955.74	3.72	3.72	-5.19	6.39	305.6	0.89	-49.5 M
	964.90	1.20	310.5	964.84	3.87	3.87	-5.33	6.59	306.0	1.01	-48.0 M
	974.40	1.80	312.0	974.33	4.03	4.03	-5.52	6.84	306.2	1.90	-43.1 M
	984.00	1.40	316.9	983.93	4.22	4.22	-5.71	7.10	306.5	1.32	-44.5 M
	993.60	0.90	315.5	993.53	4.36	4.36	-5.84	7.29	306.7	1.56	-63.5 M
	1003.00	0.40	296.5	1002.93	4.43	4.43	-5.92	7.40	306.8	1.72	-147.2 M
	1012.60	0.20	212.8	1012.53	4.43	4.43	-5.96	7.43	306.6	1.33	-109.9 M
	1021.80	0.10	250.1	1021.73	4.41	4.41	-5.98	7.43	306.4	0.44	-18.5 M
	1031.10	0.20	341.5	1031.03	4.42	4.42	-5.99	7.45	306.4	0.73	-65.6 M
	1040.70	0.20	294.4	1040.63	4.45	4.45	-6.01	7.48	306.5	0.50	33.5 M
	1050.40	0.00	33.5	1050.33	4.45	4.45	-6.03	7.50	306.5	0.62	158.0 M
	1060.00	0.10	158.0	1059.93	4.45	4.45	-6.03	7.49	306.4	0.31	-171.8 M
	1069.10	0.30	188.2	1069.03	4.42	4.42	-6.03	7.47	306.2	0.72	160.8 M
	1078.70	0.10	160.8	1078.63	4.38	4.38	-6.03	7.45	306.0	0.68	-176.7 M
	1088.40	0.40	183.3	1088.33	4.34	4.34	-6.03	7.43	305.8	0.96	153.0 M
	1097.90	0.60	153.0	1097.83	4.26	4.26	-6.01	7.36	305.4	1.03	172.7 M
	1107.60	0.40	172.7	1107.53	4.18	4.18	-5.98	7.30	305.0	0.81	150.2 M
	1117.10	0.60	150.2	1117.03	4.11	4.11	-5.95	7.23	304.6	0.87	149.5 M
	1126.70	1.00	149.5	1126.63	3.99	3.99	-5.88	7.11	304.2	1.25	126.3 M
	1136.20	0.70	126.3	1136.12	3.89	3.89	-5.79	6.98	303.9	1.42	-166.2 M
	1145.10	0.80	193.8	1145.02	3.79	3.79	-5.76	6.90	303.4	2.82	-166.9 M
	1154.50	1.10	193.1	1154.42	3.64	3.64	-5.80	6.85	302.1	0.96	179.1 M
	1164.10	1.30	179.1	1164.02	3.44	3.44	-5.82	6.76	300.6	1.10	179.8 M
	1173.70	1.50	179.8	1173.62	3.21	3.21	-5.82	6.64	298.9	0.63	165.0 M
	1183.20	1.40	165.0	1183.11	2.97	2.97	-5.79	6.51	297.2	1.22	157.3 M
	1192.90	1.00	157.3	1192.81	2.78	2.78	-5.72	6.36	295.9	1.33	158.0 M
	1202.40	1.00	158.0	1202.31	2.63	2.63	-5.66	6.24	294.9	0.04	146.7 M
	1212.10	1.10	146.7	1212.01	2.47	2.47	-5.58	6.10	293.9	0.71	146.0 M
	1221.70	0.80	146.0	1221.61	2.34	2.34	-5.49	5.97	293.1	0.94	142.0 M
	1231.20	1.60	142.0	1231.11	2.18	2.18	-5.37	5.80	292.1	2.54	140.0 M
	1240.60	2.00	140.0	1240.50	1.95	1.95	-5.18	5.54	290.6	1.29	145.3 M
	1250.30	2.20	145.3	1250.20	1.67	1.67	-4.97	5.24	288.5	0.86	151.2 M
	1259.90	2.00	151.2	1259.79	1.37	1.37	-4.78	4.98	286.0	0.92	147.4 M
	1269.00	1.90	147.4	1268.88	1.10	1.10	-4.63	4.76	283.4	0.54	145.3 M
	1278.00	1.90	145.3	1277.88	0.85	0.85	-4.46	4.54	280.8	0.23	160.8 M
	1287.60	1.90	160.8	1287.47	0.57	0.57	-4.32	4.36	277.6	1.60	160.8 M
	1297.20	2.00	160.8	1297.07	0.26	0.26	-4.21	4.22	273.6	0.31	-174.6 M
	1306.70	1.30	185.4	1306.56	0.00	0.00	-4.17	4.17	270.0	3.10	143.2 M

Station ID	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N-S (m)	E-W (m)	Closure (m)	at Azim (°)	DLS (°/30m)	TF (°)
1316.30	1.10	143.2	1316.16	-0.18	-0.18	-4.12	4.12	267.5	2.76	-164.8 M	
1325.90	1.40	195.2	1325.76	-0.37	-0.37	-4.10	4.11	264.9	3.53	170.6 M	
1335.00	1.30	170.6	1334.86	-0.58	-0.58	-4.11	4.15	262.0	1.92	-173.2 M	
1344.60	1.50	186.8	1344.45	-0.81	-0.81	-4.11	4.18	258.8	1.38	178.4 M	
1354.20	1.70	178.4	1354.05	-1.08	-1.08	-4.12	4.26	255.3	0.96	150.2 M	
1363.80	1.30	150.2	1363.65	-1.31	-1.31	-4.06	4.27	252.1	2.59	96.1 M	
1373.30	1.10	96.1	1373.15	-1.42	-1.42	-3.91	4.16	250.1	3.49	108.6 M	
1382.30	1.40	108.6	1382.14	-1.46	-1.46	-3.72	4.00	248.6	1.35	102.4 M	
1391.90	1.70	102.4	1391.74	-1.53	-1.53	-3.47	3.80	246.2	1.07	104.5 M	
1401.50	1.30	104.5	1401.34	-1.59	-1.59	-3.23	3.60	243.8	1.26	109.5 M	
1411.00	1.10	109.5	1410.83	-1.64	-1.64	-3.04	3.46	241.6	0.71	115.1 M	
1420.60	1.30	115.1	1420.43	-1.72	-1.72	-2.85	3.33	238.9	0.72	103.1 M	
1430.20	1.30	103.1	1430.03	-1.79	-1.79	-2.65	3.20	235.9	0.85	105.2 M	
1439.30	1.30	105.2	1439.13	-1.84	-1.84	-2.45	3.06	233.0	0.16	144.6 M	
1449.00	1.10	144.6	1448.83	-1.95	-1.95	-2.29	3.01	229.6	2.57	165.0 M	
1458.50	1.20	165.0	1458.32	-2.12	-2.12	-2.21	3.06	226.2	1.32	160.1 M	
1467.60	1.30	160.1	1467.42	-2.31	-2.31	-2.15	3.15	223.0	0.48	159.4 M	
1477.10	1.30	159.4	1476.92	-2.51	-2.51	-2.08	3.26	219.6	0.05	155.2 M	
1490.20	1.10	155.2	1490.02	-2.76	-2.76	-1.97	3.39	215.5	0.50	142.5 M	
1499.80	1.30	142.5	1499.61	-2.93	-2.93	-1.87	3.48	212.5	1.04	138.3 M	
1509.40	1.10	138.3	1509.21	-3.09	-3.09	-1.74	3.54	209.4	0.68	131.9 M	
1528.10	1.30	131.9	1527.91	-3.36	-3.36	-1.46	3.67	203.5	0.39	106.6 M	
1537.60	1.10	106.6	1537.41	-3.46	-3.46	-1.29	3.70	200.5	1.77	94.6 M	
1547.20	1.80	94.6	1547.00	-3.50	-3.50	-1.05	3.66	196.8	2.37	82.0 M	
1556.80	1.70	82.0	1556.60	-3.49	-3.49	-0.76	3.57	192.3	1.24	63.7 M	
1565.90	1.30	63.7	1565.70	-3.43	-3.43	-0.54	3.47	188.9	2.04	70.1 M	
1575.50	0.70	70.1	1575.29	-3.36	-3.36	-0.38	3.38	186.5	1.90	45.5 M	
1585.10	1.20	45.5	1584.89	-3.27	-3.27	-0.26	3.28	184.5	1.98	51.1 M	
1594.60	1.30	51.1	1594.39	-3.13	-3.13	-0.10	3.13	181.9	0.50	54.6 M	
1604.10	1.40	54.6	1603.89	-3.00	-3.00	0.08	3.00	178.6	0.41	68.7 M	
1613.20	1.10	68.7	1612.99	-2.90	-2.90	0.25	2.91	175.1	1.41	86.2 M	
1622.70	1.10	86.2	1622.48	-2.86	-2.86	0.42	2.89	171.6	1.06	88.4 M	
1632.30	0.80	88.4	1632.08	-2.85	-2.85	0.58	2.91	168.5	0.94	68.7 M	
1641.90	1.00	68.7	1641.68	-2.82	-2.82	0.73	2.91	165.5	1.14	89.1 M	
1651.50	1.00	89.1	1651.28	-2.79	-2.79	0.89	2.93	162.3	1.11	77.1 M	
1661.00	1.30	77.1	1660.78	-2.76	-2.76	1.08	2.97	158.7	1.21	94.5 M	
1670.60	1.50	94.5	1670.38	-2.75	-2.75	1.31	3.05	154.5	1.46	75.7 M	
1680.20	1.30	75.7	1679.97	-2.73	-2.73	1.54	3.14	150.6	1.56	30.0 M	
1689.70	1.00	30.0	1689.47	-2.63	-2.63	1.69	3.13	147.4	2.95	8.9 M	
1699.30	1.10	8.9	1699.07	-2.47	-2.47	1.74	3.02	144.8	1.24	-0.9 M	
1708.90	1.20	359.1	1708.67	-2.28	-2.28	1.75	2.88	142.4	0.69	-0.2 M	
1718.10	1.10	359.8	1717.87	-2.09	-2.09	1.75	2.73	140.1	0.33	9.6 M	
1727.60	0.70	9.6	1727.36	-1.95	-1.95	1.76	2.62	137.8	1.35	-2.3 M	
1737.20	0.90	357.7	1736.96	-1.81	-1.81	1.77	2.53	135.7	0.81	-4.5 M	
1746.20	1.00	355.5	1745.96	-1.66	-1.66	1.76	2.42	133.4	0.35	-8.7 M	
1755.80	1.10	351.3	1755.56	-1.49	-1.49	1.74	2.29	130.6	0.39	-4.5 M	

Station ID	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N-S (m)	E-W (m)	Closure (m)	at Azim (°)	DLS (°/30m)	TF (°)
	1765.40	1.10	355.5	1765.16	-1.31	-1.31	1.72	2.16	127.3	0.25	-22.7 M
	1775.00	1.20	337.3	1774.76	-1.12	-1.12	1.67	2.01	123.9	1.18	-2.4 M
	1784.50	1.00	357.6	1784.26	-0.95	-0.95	1.63	1.89	120.2	1.37	-22.0 M
	1794.10	1.00	338.0	1793.85	-0.79	-0.79	1.59	1.78	116.2	1.06	-31.2 M
	1803.60	0.90	328.8	1803.35	-0.65	-0.65	1.53	1.66	112.9	0.57	-16.4 M
	1813.30	1.10	343.6	1813.05	-0.49	-0.49	1.46	1.54	108.6	1.01	-10.1 M
	1822.90	1.10	349.9	1822.65	-0.31	-0.31	1.42	1.45	102.4	0.38	-22.0 M
	1832.40	1.00	338.0	1832.15	-0.14	-0.14	1.37	1.38	96.0	0.76	-5.2 M
	1841.00	1.00	354.8	1840.75	0.00	-0.00	1.34	1.34	90.0	1.02	2.6 M
	1850.90	0.90	2.6	1850.64	0.16	0.16	1.33	1.34	83.0	0.49	8.2 M
	1860.50	1.10	8.2	1860.24	0.33	0.33	1.35	1.39	76.3	0.69	27.9 M
	1869.60	0.90	27.9	1869.34	0.48	0.48	1.39	1.47	71.0	1.30	18.0 M
	1879.10	0.70	18.0	1878.84	0.60	0.60	1.45	1.57	67.5	0.77	23.7 M
1897.70	1.10	23.7	1897.44	0.87	0.87	1.55	1.78	60.7	0.66	13.1 M	
	1907.00	0.40	13.1	1906.74	0.99	0.99	1.60	1.88	58.3	2.29	-38.2 M
	1916.60	0.20	321.8	1916.34	1.03	1.03	1.59	1.90	57.1	0.99	-12.2 M
	1926.10	0.20	347.8	1925.84	1.06	1.06	1.58	1.90	56.1	0.28	-20.6 M
	1935.70	0.40	339.4	1935.44	1.11	1.11	1.56	1.92	54.7	0.64	172.0 M
1955.80	0.20	172.0	1955.54	1.14	1.14	1.54	1.92	53.6	0.89	-166.9 M	
	1965.40	0.60	193.1	1965.14	1.07	1.07	1.54	1.87	55.0	1.31	-160.6 M
	1974.50	0.40	199.4	1974.24	1.00	1.00	1.51	1.81	56.6	0.68	-147.9 M
	1983.00	0.30	212.1	1982.74	0.95	0.95	1.49	1.77	57.5	0.44	177.0 M
	1992.10	0.60	177.0	1991.84	0.88	0.88	1.48	1.73	59.2	1.30	163.6 M
2001.70	0.50	163.6	2001.44	0.79	0.79	1.50	1.69	62.1	0.51	155.9 M	
Projection to TD	2011.30	0.90	155.9	2011.04	0.68	0.68	1.54	1.68	66.1	1.28	---

Survey Program:

Measured Depth

0.00

2011.30

Tool (Wolff & deWardt Error Model)

None

None

Schlumberger Anadrill BHA DataSheet											
Alberta Energy Corp											
JSO#	40004524		Hole Size: 222 mm	Depth in: 586 m	Depth out: 1273 m	Mtr. Drlg	687 m		BHA # 1		
Well	AEC Renaissance Tate	Last cas. @	586.0m	Date In	Feb 22 00	Date Out	Feb 25 00	Days	4.0	SPP Off	5500.0 MPa
LSD	Tate Lake G-18	Bit to Svy.	13.0 m	PDM Run #	1	Drlg hrs	51.75 hrs	Circ. Hrs	9.0 hrs	SPP On	7000.0 MPa
Pad ID	Single well	React. Torq.	145	Mot. Vend.	Vector	Avg. ROP	13.25 m/hr	Tot. D&C	60.8 hrs	Differential	1500.0 MPa
Field	Tate Lake	Rot. Torq	N/A	R/S conf.	7/8 3.0	verse ROP	4.5 min/m	Pump #	1	Pump #	2
Prov.	NWT	Inc. In		ABH Set	150	Slide Dist.	16.0 m	Pump Man.	NAT	Pump Man.	NAT
Rig	Akita #51	Azm. In		Motor RPM	100	Rotate Dist.	671.0 m	Pump Type	8-P-80	Pump Type	8-P-80
Co.Rep	Al Anger	Inc. Out	2.0 deg	Rot. RPM	30	Slide Hrs.	1.21 hrs	Tri /Dup	Triplex	Tri /Dup	Triplex
Rig Man	Rick Parker	Azm. Out	151.2 deg	Avg. WOB	16/18	Rot. Hrs.	50.54 hrs	Stroke	216 mm	Stroke	216 mm
DD	Eric Erickson	MWD	Barry Timmerma	BHA Wt.	27 maN	Slide ROP	13.22 m/hr	Liner	152 mm	Liner	152 mm
DD		MWD		String Wt	55 maN	Rot. ROP	13.28 m/hr	Strks / min	110	Strks / min	
DD		MWD		P/U Wt.	58 maN	Steering	2.0%	Vol(strk)	.0118cu. m	Vol(strk)	
DD		MWD		S/O Wt.	53 maN	Rotate	98.0%	Volume	1.30 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	32.0 deg./C
Item	#	Description	Vendor	Serial #	Max OD	OD	ID	B. Conn	T. Conn	Length	Cum Len
1	1	FDS+2 3X14.3	Smith	LR9325		222	N/A		4.5 Reg	0.25	0.25
2	1	6.75 7:8 3.0 set@ 1.50	Vector	675-17-003	193	171	N/A	4.5 Reg	4.5H90	6.04	6.29
3	1	Float Sub	Anadrill	1316579		157	N/A	4.5H90	4.5 H90	0.59	6.88
4	1	UBHO	Anadrill	1416514		175	0.72	4.5 H90	4.5 H90	0.66	7.54
5	1	NMDC	Anadrill	1916539		164	0.72	4.5 H90	4.5 H90	9.21	16.75
6	1	X - Over Sub	Anadrill	1216576		173	0.7	4.5 H90	4.5XH	0.62	17.37
7	8	Drill Collars	Akita			156	0.61	4.5XH	4.5XH	55.71	73.08
8	1	Jars	Cougar	DJG650-12V		160	0.65	4.5XH	4.5XH	4.70	77.78
9	10	Drill Collars	Akita			156	0.61	4.5XH	4.5XH	91.81	169.59
10	6	HWDP	Akita					4.5XH	4.5XH	55.54	225.13
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
Exp. : Act. : Com.: ONLY 16 METERS OF SLIDE WAS REQUIRED Bit condition Cutting structure B G Remarks IADC Inner Outer MDC LOC BRG GAUG ODC REASON code rows rows 1/16 PULLED 1 1 7 6 5 MT AL 1 NG IN MT PR											

Schlumberger		Anadrill		BHA DataSheet							
Alberta Energy Corp											
JSO#	40004524	Hole Size: 222 mm	Depth in: 1273 m	Depth out: 1491 m	Mtr. Drlg	218 m	BHA # 2				
Well	AEC Renaissance Tate	Last cas. @	586.0m	Date In	Feb 25 00	Date Out	Feb 27 00	Days	3.0	SPP Off	5500.0 MPa
LSD	Tate Lake G-18	Bit to Svy.	13.0 m	PDM Run #	2	Drig hrs	20.75 hrs	Circ. Hrs	16.5 hrs	SPP On	7000.0 MPa
Pad ID	Single well	React. Torq.	145	Mot. Vend.	Vector	Avg. ROP	10.51 m/hr	Tot. D&C	37.3 hrs	Differential	1500.0 MPa
Field	Tate Lake	Rot. Torq	N/A	R/S conf.	7/8 3.0	verse ROP		Pump #	1	Pump #	2
Prov.	NWT	Inc. In	2.0 deg	ABH Set	150	Slide Dist.	37.0 m	Pump Man.	NAT	Pump Man.	NAT
Rig	Akita #51	Azm. In	151.2 deg	Motor RPM	100	Rotate Dist.	181.0 m	Pump Type	8-P-80	Pump Type	8-P-80
Co. Rep	Al Anger	Inc. Out	1.3 deg	Rot. RPM	20	Slide Hrs.	3.52 hrs	Tri /Dup	Triplex	Tri /Dup	Triplex
Rig Man	Rick Parker	Azm. Out	159.4 deg	Avg. WOB	16/18	Rot. Hrs.	17.23 hrs	Stroke	216 mm	Stroke	216 mm
DD	Eric Erickson	MWD	Barry Timmerma	BHA Wt.	27 maN	Slide ROP	10.51 m/hr	Liner	152 mm	Liner	152 mm
DD		MWD		String Wt	55 maN	Rot. ROP	10.51 m/hr	Strks / min	100	Strks / min	
DD		MWD		P/U Wt.	58 maN	Steering	17.0%	Vol(strk)	.0118cu. m	Vol(strk)	
DD		MWD		S/O Wt.	53 maN	Rotate	83.0%	Volume	1.18 m3	Volume	
Mud	Gel	Mud Vis	71 sec/L	Sand		Chlorides		YP		PH	9.0
Mud Wt	1060 kg/cu. m	WL	8.5 cc's	Solid cont		Oil/Water		PV		MWD BHT	36.0 deg./C
Item	#	Description	Vendor	Serial #	Max OD	OD	ID	B. Conn	T. Conn	Length	Cum Len
1	1	F10TPS 3X14.3	Smith	LR5606		222	N/A		4.5 Reg	0.25	0.25
2	1	6.75 7:8 3.0 set@ 1.50	Vector	675-17-003	193	171	N/A	4.5 Reg	4.5H90	6.04	6.29
3	1	Float Sub	Anadrill	1316579		157	N/A	4.5H90	4.5 H90	0.59	6.88
4	1	UBHO	Anadrill	1416514		175	0.72	4.5 H90	4.5 H90	0.66	7.54
5	1	NMDC	Anadrill	1916539		164	0.72	4.5 H90	4.5 H90	9.21	16.75
6	1	X - Over Sub	Anadrill	1216576		173	0.7	4.5 H90	4.5XH	0.62	17.37
7	6	Drill Collars	Akita			156	0.61	4.5XH	4.5XH	55.71	73.08
8	1	Jars	Cougar	DJG650-12V		160	0.65	4.5XH	4.5XH	4.70	77.78
9	10	Drill Collars	Akita			156	0.61	4.5XH	4.5XH	91.81	169.59
10	6	HWDP	Akita					4.5XH	4.5XH	55.54	225.13
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
Exp. : Act. : Com.: Bit condition Cutting structure B G Remarks IADC code Inner rows Outer rows MDC LOC BRG GAUG ODC REASON 4 3 7 7 6 MT AL G IN MT PR											

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

30000 ft lb / 81300 N-m

Schlumberger Anadrill BHA Data Sheet											
Alberta Energy Corp											
JSO#	40004524		Hole Size: 222 mm	Depth in: 1491 m		Depth out: 1768 m		Mtr. Drig 277 m	BHA # 3		
Well	AEC Renaissance Tate	Last cas. @	586.0m	Date In	Feb 27 00	Date Out	Mar 01 00	Days	4.0	SPP Off	5500.0 MPa
LSD	Tate Lake G-18	Bit to Svy.	13.0 m	PDM Run #	3	Drig hrs	55.5 hrs	Circ. Hrs	5.5 hrs	SPP On	7000.0 MPa
Pad ID	Single well	React. Torq.	270	Mot. Vend.	Vector	Avg. ROP	4.98 m/hr	Tot. D&C	61.0 hrs	Differential	1500.0 MPa
Field	Tate Lake	Rot. Torq	N/A	R/S conf.	7/8 3.0	verse ROP	12.0 min/m	Pump #	1	Pump #	2
Prov.	NWT	Inc. In	1.1 deg	ABH Set	150	Slide Dist.	23.0 m	Pump Man.	NAT	Pump Man.	NAT
Rig	Akita #51	Azm. In	155.2 deg	Motor RPM	90	Rotate Dist.	254.0 m	Pump Type	8-P-80	Pump Type	8-P-80
Co. Rep	AJ Anger	Inc. Out	1.1 deg	Rot. RPM	20	Slide Hrs.	4.61 hrs	Tri /Dup	Triplex	Tri /Dup	Triplex
Rig Man	Rick Parker	Azm. Out	351.3 deg	Avg. WOB	16/18	Rot. Hrs.	50.89 hrs	Stroke	216 mm	Stroke	216 mm
DD	Eric Erickson	MWD	Barry Timmerma	BHA Wt.	27 maN	Slide ROP	4.99 m/hr	Liner	152 mm	Liner	152 mm
DD		MWD		String Wt	64 maN	Rot. ROP	4.98 m/hr	Strks / min	100	Strks / min	
DD		MWD		P/U Wt.	67 maN	Steering	8.0%	Vol(strk)	.0118cu. m	Vol(strk)	
DD		MWD		S/O Wt.	62 maN	Rotate	92.0%	Volume	1.18 m3	Volume	
Mud	Gel	Mud Vis	48 sec/L	Sand	1%	Chlorides	320 ppm	YP	6	PH	10.5
Mud Wt	1075 kg/cu. m	WL	10.0 cc's	Solid cont	4.7 %	Oil/Water		PV	18	MWD BHT	44.8 deg./C
Item	#	Description	Vendor	Serial #	Max OD	OD	ID	B. Conn	T. Conn	Length	Cum Len
1	1 F37P	3X14.3	Smith	LX6240		222	N/A		4.5 Reg	0.25	0.25
2	1 6.75 7.8 3.0 set@ 1.50		Vector	675-17-003	193	171	N/A	4.5 Reg	4.5H90	6.04	6.29
3	1 Float Sub		Anadrill	1316579		157	N/A	4.5H90	4.5 H90	0.59	6.88
4	1 UBHO		Anadrill	1416514		175	0.72	4.5 H90	4.5 H90	0.66	7.54
5	1 NMDC		Anadrill	1916539		164	0.72	4.5 H90	4.5 H90	9.21	16.75
6	1 X - Over Sub		Anadrill	1216576		173	0.7	4.5 H90	4.5XH	0.62	17.37
7	1 Shock Sub		Cougar	ST5-612-48		157	0.54	4.5XH	4.5XH	3.51	20.88
8	6 Drill Collars		Akita			156	0.61	4.5XH	4.5XH	55.71	76.59
9	1 Jars		Cougar	DJG650-12V		160	0.65	4.5XH	4.5XH	4.70	81.29
10	10 Drill Collars		Akita			156	0.61	4.5XH	4.5XH	91.81	173.10
11	6 HWDP		Akita					4.5XH	4.5XH	55.54	228.64
12											
13											
14											
15											
16											
17											
18											
19											
20											
Exp.: Act.: Com.: Bit condition Cutting structure B G Remarks IADC code Inner rows Outer rows MDC LOC BRG GAUG ODC REASON 547 5 5 WT A E IN PR The inside of the shock sub is only .54mm , making the the MWD a nonretr											
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 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 3 ft lb / 81300 N-m					

Schlumberger Anadrill BHA DataSheet																																																					
Alberta Energy Corp																																																					
JSO#	40004524		Hole Size: 222 mm	Depth in: 1768 m		Depth out: 2030 m		Mtr. Drlg 262 m		BHA # 4																																											
Well	AEC Renaissance Tate	Last cas. @	586.0m	Date In	Mar 01 00	Date Out	Mar 04 00	Days	4.0	SPP Off	5500.0 MPa																																										
LSD	Tate Lake G-18	Bit to Svy.	14.0 m	PDM Run #	1	Drig hrs	42.5 hrs	Circ. Hrs	7.8 hrs	SPP On	7000.0 MPa																																										
Pad ID	Single well	React. Torq.	300	Mot. Vend.	Vector	Avg. ROP	6.16 m/hr	Tot. D&C	50.3 hrs	Differential	1500.0 MPa																																										
Field	Tate Lake	Rot. Torq	N/A	R/S conf.	7/8 3.0	verse ROP	9.7 min/m	Pump #	1	Pump #	2																																										
Prov.	N W T	Inc. In	1.1 deg	ABH Set	1.5	Slide Dist.	Nil	Pump Man.	NAT	Pump Man.	NAT																																										
Rig	Akita #51	Azm. In	351.3 deg	Motor RPM	90	Rotate Dist.	262.0 m	Pump Type	8-P-80	Pump Type	8-P-80																																										
Co.Rep	Al Anger	Inc. Out	0.9 deg	Rot. RPM	15	Slide Hrs.	Nil	Tri /Dup	Triplex	Tri /Dup	Triplex																																										
Rig Man	Rick Parker	Azm. Out	155.9 deg	Avg. WOB	16/18	Rot. Hrs.	42.50 hrs	Stroke	216 mm	Stroke	216 mm																																										
DD	Eric Erickson	MWD	Barry Timmerma	BHA Wt.	27 maN	Slide ROP	-	Liner	152 mm	Liner	152 mm																																										
DD		MWD		String Wt	69 maN	Rot. ROP	6.16 m/hr	Strks / min	100	Strks / min																																											
DD		MWD		P/U Wt.	76 maN	Steering		Vol(strk)	.0118cu. m	Vol(strk)																																											
DD		MWD		S/O Wt.	64 maN	Rotate	100.0%	Volume	1.18 m3	Volume																																											
Mud	GEL	Mud Vis	47 sec/L	Sand	1%	Chlorides	163000 ppm	YP	21	PH	8.0																																										
Mud Wt	1180 kg/cu. m	WL	25+	Solid cont	6.0 %	Oil/Water		PV	10	MWD BHT	44.9 deg./C																																										
Item	#	Description	Vendor	Serial #	Max OD	OD	ID	B. Conn	T. Conn	Length	Cum Len																																										
1	1	F37P 3X14.3	Smith	LX6668		222	N/A		4.5 Reg	0.25	0.25																																										
2	1	6.75 7:8 3.0 set@ 1.50	Vector	109-67198-	193	171	N/A	4.5 Reg	4.5H90	7.06	7.31																																										
3	1	Float Sub	Anadrill	1316579		157	N/A	4.5H90	4.5 H90	0.59	7.90																																										
4	1	UBHO	Anadrill	1416514		175	0.72	4.5 H90	4.5 H90	0.66	8.56																																										
5	1	NMDC	Anadrill	1916539		164	0.72	4.5 H90	4.5 H90	9.21	17.77																																										
6	1	X - Over Sub	Anadrill	1216576		173	0.7	4.5 H90	4.5XH	0.62	18.39																																										
7	1	Shock Sub	Cougar	ST5-612-48		156	0.54	4.5XH	4.5XH	3.51	21.90																																										
8	6	Drill Collars	Akita			156	0.61	4.5XH	4.5XH	55.71	77.61																																										
9	1	Jars	Cougar	DJG650-12V		160	0.65	4.5XH	4.5XH	4.70	82.31																																										
10	10	Drill Collars	Akita			156	0.61	4.5XH	4.5XH	91.81	174.12																																										
11	6	HWDP	Akita					4.5XH	4.5XH	55.54	229.66																																										
12																																																					
13																																																					
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15																																																					
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20																																																					
Exp : Act : Com.: Bit condition Cutting structure B G Remarks IADC code Inner rows Outer rows MDC LOC BRG GAUG ODC REASON 537 1/16 PULLED The inside diameter of the shock sub is only 54mm, making the MWD nonre																																																					
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 <table border="1"> <tbody> <tr> <td>4.5 H90</td> <td>23000 ft lb / 31200 N-m</td> <td>2.9 AOH</td> <td>3500 ft lb /4700 Nlm</td> <td>2.38</td> <td>890 ft lb / 1200 N-m</td> </tr> <tr> <td>4 IF/4.5XH/NC46</td> <td>22200 ft lb / 30100 N-m</td> <td>2.9 H90</td> <td>4600 ft lb /6200 Nlm</td> <td>2.87</td> <td>1650 ft lb / 2200 N-m</td> </tr> <tr> <td>4.5 FH</td> <td>19800 ft lb / 26800 N-m</td> <td>3.5 IF / NC38</td> <td>9900 ft lb /13400 Nlm</td> <td>3.38</td> <td>3600 ft lb / 4900 N-m</td> </tr> <tr> <td>3.5 IF / NC38</td> <td>9900 ft lb / 13400 N-m</td> <td>4 FH / NC40</td> <td>13250 ft lb /18000 Nlm</td> <td>4.75</td> <td>10000 ft lb / 13600 N-m</td> </tr> <tr> <td>2.9 AOH</td> <td>3500 ft lb / 4700 N-m</td> <td>4 IF / 4.5 XH / NC46</td> <td>21800 ft lb /29600 N-m</td> <td>6.25</td> <td>20000 ft lb / 27100 N-m</td> </tr> <tr> <td>2.9 H90</td> <td>4600 ft lb / 6200 N-m</td> <td>4.5 IF / 5 XH / NC50</td> <td>29400 ft lb /39900 N-m</td> <td>6.75</td> <td>25000 ft lb / 33900 N-m</td> </tr> <tr> <td>PH6</td> <td>5500 ft lb / 7500 N-m</td> <td>5.5 FH</td> <td>33200 ft lb /45000 N-m</td> <td>8</td> <td>35000 ft lb / 47500 N-m</td> </tr> </tbody> </table>												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
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																																																
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PH6	5500 ft lb / 7500 N-m	5.5 FH	33200 ft lb /45000 N-m	8	35000 ft lb / 47500 N-m																																																

Schlumberger

Day 3

JOB NUMBER
4004524

DATE
WED FEB, 16, 2000

COMPANY
Alberta Energy Corp

WELL NAME
AEC West G-18 G-18

COMPANY REPRESENTATIVE
Al Anger

RIG NAME
Akita #51

LOCATION
Rennalssance Tate G-18

DRILLING RECORD

TIME RECORD

COST ESTIMATE

BIT NUMBER		TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (If not Anadrill)	COST
BIT SIZE		24.00		0:00	Stand by to pick up Dir Tools	SUPERVISION 1 @ 700.00	\$ 700.00
BIT TYPE						FLAT RATE	
JETS (mm)						MOTOR HRS 200.00	
DEPTH IN						MOTOR DAILY	
DEPTH OUT						MOTOR STBY	
METERS						JARS	
HOURS						S. SHOT KIT 125.00	
ROP (m/hr)						FLOAT SUB 25.00	
RPM						MONEL 125.00	
WOB						X/Over 25.00	
PP ON						STABILIZERS	
PP OFF					No. 17, 18, 19, 20, 21	TB REAMER	
STG WT						MWD SUPER. 1 @ 400.00	\$ 400.00
P/U WT						MWD SYSTEMS	
S/O WT						GAMMA RAY	
PUMP DATA						GAMMA RAY (STDBY)	
PUMP MAN.						CMPTR & WELL PLAN	
PUMP MOD.						EQUIPMENT STANDBY	\$ 1,000.00
Triplex/Duplex							
LINER							
STROKE						SUBSISTENCE (Camp?)	
CU. M/STRK						camp	
STRKS/Min.						MILEAGE	
VOLUME						VEH. LIC. #	
MUD REPORT						KM TDY	
MUD TYPE (Gal,ect.)						KM ACCUM.	
MUD WEIGHT						DAILY TOTAL	\$ 2,100.00
VISCOSITY (sec/L)						ACCUMULATED	\$ 8,875.00
WATER LOSS							
pH							
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	(Yes / No)

BHA # 1

BHA #

DOWNHOLE JARS

ITEM	VENDER	SERIAL#	LENGTH	ITEM	VENDER	SERIAL#	LENGTH	Run	MAKE	SER. #	Drill	Circ	D+C	FAILURE?	
															N

MWD

Run	COMP.	HRS	dy	HRS	th	COMMENTS	FAILURE?
-----	-------	-----	----	-----	----	----------	----------

Comments

TOTAL LENGTH

TOTAL LENGTH

TARGET TVD @ TIME

PERSONNEL

DD: Eric Erickson

MWD: Barry Timmerman

DD: MWD:

MWD:

DD: MWD:

MWD:

AFE NUMBER 5000044-9210-35

CONTRACT NUMBER

FIELD CELL # 1-403-813-7141

CO. MAN'S CELL #

SIGNATURE OF COMPANY'S REPRESENTATIVE

Alan Anger

750

500

2300.5
6'100.

Schlumberger

Day 4

WELL NUMBER 90004524	DATE TUE FEB, 22, 2000	COMPANY Alberta Energy Corp	WELL NAME AEC West G-18 G-18
COMPANY REPRESENTATIVE Al Anger		RIG NAME Akita #51	LOCATION Renaissance Tate G-18

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NUMBER	1		TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (if not Anadrill)	COST
BIT SIZE	222.0		1.00		1:00	Weld Casing Bowl	SUPERVISION 1 @ 700.00	\$ 700.00
BIT TYPE	FDS+2		5.50	1:00	6:30	Nipple up BOP's	FLAT RATE	
JETS (mm)	14.3		6.75	6:30	13:15	Pressure Test	MOTOR HRS 200.00	
DEPTH IN	586 m		2.75	13:15	16:00	Make up BHA	MOTOR DAILY	
DEPTH OUT			0.25	16:00	16:15	Rig service	MOTOR STBY	
METERS			2.50	16:15	18:45	RIH	JARS	
HOURS			0.50	18:45	19:15	Circulate	S. SHOT KIT 125.00	
ROP (m/hr)			4.50	19:15	23:45	Pressure Test	FLOAT SUB 1 25.00	\$ 25.00
RPM	30/100		0.25	23:45	0:00	Drill out Cement	MONEL 1 125.00	\$ 125.00
WOB	14/18						X/Over 1 25.00	\$ 25.00
PP ON	5000						STABILIZERS	
PP OFF	4000						TB REAMER	
STG WT	40						MWD SUPER. 1 @ 500.00	\$ 500.00
PIJ WT	40						MWD SYSTEMS 1 2900.00	\$ 2,900.00
S/O WT	40						GAMMA RAY	
PUMP DATA							MOTOR RELINE	
PUMP MAN.	NAT	NAT					THREAD INSPECTION	
PUMP MOD.	8-P-80	8-P-80						
Triplex/Duplex	Triplex	Triplex						
LINER	152mm	152mm						
STROKE	216mm	216mm						
CU. M/STRK	0.0118	0.0118						
STRKS/Min.	110							
VOLUME	1.30							
MUD REPORT								
MUD TYPE (Gel,ect)	Floc							
MUD WEIGHT	1000							
VISCOSITY (sec/L)	28							
WATER LOSS								
pH								
SAND								
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	Vector	673-17-003		0.25	0.25		0.25	0.25		0.25	0.25		0.25	0.25	N

BHA # 1				BHA #				DOWNHOLE JARS							
ITEM	VENDER	SERIAL#	LENGTH	ITEM	VENDER	SERIAL#	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D+C	FAILURE?	
BIT	Smith	LR9325	0.25					1	Cougar	85012v		0.25	0.25	N	
Motor	Vector	675-17-003	8.04												
Float	Anadrill	1318579	0.59												
UBHO	Anadrill	1418514	0.68												

TOTAL LENGTH					TOTAL LENGTH					TARGET TVD @ TIME					
DD:	Eric Erickson	MWD:	Barry Timmerman		DD:		MWD:			DD:		MWD:			
DD:		MWD:			DD:		MWD:			DD:		MWD:			
DD:		MWD:			DD:		MWD:			DD:		MWD:			

AFE NUMBER 5000044-9210-35 CONTRACT NUMBER
FIELD CELL # 1-403-813-7141 CO. MAN'S CELL #

SIGNATURE OF COMPANY'S REPRESENTATIVE

Al Anger

150

20

200

500

2,000

11/16/00

10/26/00

Schlumberger

Day 5

JOB NUMBER 40004524	DATE WED FEB, 23, 2000	COMPANY Alberta Energy Corp	WELL NAME AEC West G-18
COMPANY REPRESENTATIVE Al Anger	RIG NAME Akita #51	LOCATION Renaissance Tale G-18	

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NUMBER	1		TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (if not Anadrill)	COST
BIT SIZE	222.0		0.50	0:30	1:00	Drill Out Cement	SUPERVISION 1 @ 700.00	\$ 700.00
BIT TYPE	FDS+2		0.50	0:30	1:00	Leak Off Test	FLAT RATE 210	
JETS (mm)	14.3		1.00	1:00	2:00	Directional Drill 586 m to 607 m	MOTOR HRS 22.50 @ 200.00	\$ 4,500.00
DEPTH IN	586 m		0.25	2:00	2:15	BOP Drill	MOTOR DAILY	
DEPTH OUT			0.25	2:15	2:30	Rig Service	MOTOR STBY	
METERS	339 m		4.25	2:30	6:45	Directional Drill 607 m to 683 m	JARS	
HOURS	17.75		1.25	6:45	8:00	Accumulated Surveys	S. SHOT KIT 125.00	
ROP (m/hr)	19.1		0.25	8:00	8:15	Rig Service	FLOAT SUB 1 25.00	\$ 25.00
RPM	70/100		1.25	8:15	9:30	Directional Drill 683 m to 703 m	MONEL 1 125.00	\$ 125.00
WOB	14/16		0.25	9:30	9:45	BOP Drill	X/Over 1 25.00	\$ 25.00
PP ON	6200		4.75	9:45	14:30	Directional Drill 703 m to 808 m	STABILIZERS	
PP OFF	4500		1.50	14:30	16:00	Accumulated Surveys	TB REAMER	
STG WT	48		0.25	16:00	16:15	Rig Service	MWD SUPER 1 @ 500.00	\$ 500.00
P/U WT	50		6.50	16:15	22:45	Directional Drill 808 m to 925 m	MWD SYSTEMS 1 2900.00	\$ 2,900.00
S/O WT	46		1.25	22:45	0:00	Accumulated Surveys	GAMMA RAY	

PUMP DATA			MILEAGE		
PUMP MAN.	NAT	NAT	VEH. LIC. #	KM TDY	KM ACC
PUMP MOD.	8-P-80	8-P-80			
Triplex/Duplex	Triplex	Triplex			
LINER	152mm	152mm			
STROKE	216mm	216mm			
CU. M./STRK	0.0118	0.0118			
STRKS/Min.	110				
VOLUME	1.30				

MUD REPORT			DOWNHOLE MOTORS		
MUD TYPE (Gellect)	Floc				
MUD WEIGHT	1000				
VISCOSITY (sec/L)	28				
WATER LOSS					
pH					
SAND					
TEMPERATURE (°C)	24.00	TOTAL			

DOWNHOLE MOTORS			Daily			Run			Well			Total			FAILURE?
RUN	MAKE	SER. NO.	Drill	Circ	D+C	Drill	Circ	D+C	Drill	Circ	D+C	Drill	Circ	D+C	(Yes/No)
1	Vector	675-17-003	17.75	4.75	22.50	17.75	4.75	22.50	17.75	4.75	22.50	17.75	4.75	22.50	N

BHA #				BHA #				DOWNHOLE JARS						
ITEM	VENDER	SERIAL#	LENGTH	ITEM	VENDER	SERIAL#	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D+C	FAILURE?
BIT	Smith	LR9325	0.25					1	Cougar	65012V	17.75	4.75	22.50	N
Motor	Vector	675-17-003	6.04											
Float	Anadrill	1316579	0.59											
UBHO	Anadrill	1416514	0.66											
NMDC	Anadrill	1916539	9.21											
X-Over	Anadrill	1216576	0.62											
6DC	Akita		55.71											
Jar	Cougar	DJG 650-12	4.70											
10DC	Akita		91.81											
6 HWD	Akita		55.54											

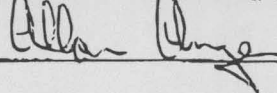
TOTAL LENGTH				TOTAL LENGTH				TARGET TVD @ TIME							
DD:	Eric Erickson	MWD:	Barry Timmerman	DD:		MWD:		DD:		MWD:		DD:		MWD:	

DD:		MWD:		DD:		MWD:		DD:		MWD:		DD:		MWD:	
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AFE NUMBER 5000044-9210-35 CONTRACT NUMBER

FIELD CELL # 1-403-813-7141 CO. MAN'S CELL #

SIGNATURE OF COMPANY'S REPRESENTATIVE



750
4725.5
7.0
7.0
6.50
7.50
2.10
2007.5

Schlumberger

Day 6

JOB NUMBER 50004524	DATE THUR FEB, 24, 2000	COMPANY Alberta Energy Corp	WELL NAME AEC Renaissance Tate G-18
COMPANY REPRESENTATIVE Al Anger	RIG NAME Akita #51	LOCATION Tate Lake G-18	

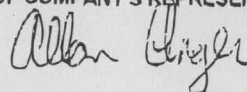
DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NUMBER	1	TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (if not Anadrill)		COST
BIT SIZE	222.0	1.50		1:30	Directional Drill 925 m to 958 m	SUPERVISION 1 @ 700.00		\$ 700.00
BIT TYPE	FDS+2	0.75	1:30	2:15	Lost Circulation	FLAT RATE		
JETS (mm)	14.3	0.75	2:15	3:00	Directional Drill 958 m to 988 m	MOTOR HRS 21.50 @ 200.00		\$ 4,300.00
DEPTH IN	588 m	0.25	3:00	3:15	Rig Service	MOTOR DAILY		
DEPTH OUT		3.75	3:15	7:00	Directional Drill 968 m to 1010 m	MOTOR STBY		
METERS	574 m	1.00	7:00	8:00	Accumulated Surveys	JARS		
HOURS	37.25	0.25	8:00	8:15	Rig Service	S. SHOT KIT 125.00		
ROP (m/hr)	15.4	6.75	8:15	15:00	Directional Drill 1010 m to 1091 m	FLOAT SUB 1 25.00		\$ 25.00
RPM	70/100	1.00	15:00	16:00	Accumulated Surveys	MONEL 1 125.00		\$ 125.00
WOB	14/16	0.25	16:00	16:15	Rig Service	X/Over 1 25.00		\$ 25.00
PP ON	6200	6.75	16:15	23:00	Directional Drill 1091 m to 1160 m	STABILIZERS		
PP OFF	4500	1.00	23:00	0:00	Accumulated Surveys	TB REAMER		
STG WT	52					MWD SUPER. 1 @ 500.00		\$ 500.00
P/U WT	55					MWD SYSTEMS 1 2900.00		\$ 2,900.00
S/O WT	50					GAMMA RAY		
PUMP DATA						MOTORRELINE		
PUMP MAN.	NAT	NAT				THREAD INSPECTION		
PUMP MOD.	8-P-80	8-P-80						
Triplex/Duplex	Triplex	Triplex						
LINER	152mm	152mm						
STROKE	216mm	216mm						
CU. M/STRK	0.0118	0.0118				SUBSISTENCE (Camp?)		
STRKS/Min.	110					camp		
VOLUME	1.30					MILEAGE		
MUD REPORT						VEH. LIC. #	KM TDY	KM ACC
MUD TYPE (Gel,ect.)	Floc							
MUD WEIGHT	1000							
VISCOSITY (sec/L)	28							
WATER LOSS								
pH								
SAND								
TEMPERATURE (°C)	24.00	TOTAL				KM TODAY	0.75	\$
						KM ACCUM.		
						DAILY TOTAL		\$ 8,575.00
						ACCUMULATED		\$ 28,580.00

TEMPERATURE			TIME			TOTAL			DOWNHOLE MOTORS						ASSEMBLY			TOTAL	
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	Vector	675-17-003	37.25	6.75	44.00	37.25	6.75	44.00	37.25	6.75	44.00	37.25	6.75	44.00	N				

BHA # 1			BHA #			DOWNHOLE JARS					
ITEM	VENDOR	SERIAL#	LENGTH	ITEM	VENDOR	SERIAL#	LENGTH	RUN	MAKE	SER. #	FAILURE?
BIT	Smith	LR9325	0.25					1	Cougar	65012V	N
Motor	Vector	675-17-003	8.04								
Float	Anadrill	1318579	0.59								
UBHO	Anadrill	1416514	0.66								
NMDC	Anadrill	1916539	9.21								
X-Over	Anadrill	1216578	0.62								
6DC	Akita		55.71								
Jar	Cougar	DJG 650-12	4.70								
10DC	Akita		91.81								
6 HWD	Akita		55.54								

Comments											

TOTAL LENGTH	228.13	TOTAL LENGTH		TARGET TVD @ TIME	
PERSONNEL	AFC NUMBER 5000044-9210-35 CONTRACT NUMBER				
DD: Eric Erickson	MWD: Barry Timmerman	FIELD CELL # 1-403-813-7141 CO. MAN'S CELL #			
DD:	MWD:	SIGNATURE OF COMPANY'S REPRESENTATIVE			



Schlumberger										Day 9									
JOB NUMBER		DATE		COMPANY				WELL NAME											
40004524		SUN FEB. 27, 2000		Alberta Energy Corp				AEC Renaissance Tate G-18											
COMPANY REPRESENTATIVE				RIG NAME				LOCATION											
Al Anger				Akita #51				Tate Lake G-18											
DRILLING RECORD						TIME RECORD						COST ESTIMATE							
BIT NUMBER	2	3	TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (if not Anadrill)				COST								
BIT SIZE	222	222	6.50		6:30	Condition Mud	SUPERVISION 1 @ 700.00				\$ 700.00								
BIT TYPE	F10TPS	F37P	0.25	6:30	6:45	Rig Service	FLAT RATE 210												
JETS (mm)	14.3	14.3	0.25	6:45	7:00	Accumulated Surveys	MOTOR HRS 10.75 @ 200.00				\$ 2,150.00								
DEPTH IN	1273	1481	0.50	7:00	7:30	Directional Drill	MOTOR DAILY												
DEPTH OUT	1491 m		3.50	7:30	11:00	Condition Mud	MOTOR STBY												
METERS	218 m		0.75	11:00	11:45	Directional Drill 1485 m to 1471 m	JARS												
HOURS	20.75		0.25	11:45	12:00	Rig Service	S. SHOT KIT 125.00												
ROP (m/hr)	10.5		3.50	12:00	15:30	Directional Drill 1471 m to 1490 m	FLOAT SUB 1 25.00				\$ 25.00								
RPM	20/90	20/90	0.50	15:30	16:00	Accumulated Surveys	MONEL 1 125.00				\$ 125.00								
WOB	18/18	18/18	0.25	16:00	18:15	Directional Drill 1490 m to 1491 m	X/Over 1 25.00				\$ 25.00								
PP ON	8000		0.75	18:15	17:00	Condition Mud	STABILIZERS												
PP OFF	6200		0.25	17:00	17:15	Rig Service	TB REAMER												
STG WT	55	55	3.50	17:15	20:45	POOH	MWD SUPER. 1 @ 500.00				\$ 500.00								
P/U WT	58	58	0.75	20:45	21:30	Handle BHA	MWD SYSTEMS 1 2900.00				\$ 2,900.00								
S/O WT	53	53	1.25	21:30	22:45	RIH to 626	GAMMA RAY												
PUMP DATA			0.50	22:45	23:15	Test MWD	MOTOR RELINE												
PUMP MAN.	NAT	NAT	0.75	23:15	0:00	RIH	THREAD INSPECTION												
PUMP MOD.	8-P-80	8-P-80																	
Triplex/Duplex	Triplex	Triplex																	
LINER	152mm	152mm																	
STROKE	216mm	216mm																	
CU. M/STRK	0.0118	0.0118																	
STRKS/Min.	110																		
VOLUME	1.30																		
MUD REPORT																			
MUD TYPE (Gel, ect.)	Gel																		
MUD WEIGHT	1050																		
VISCOSITY (sec/L)	71																		
WATER LOSS	8.4																		
pH	9																		
SAND																			
TEMPERATURE (°C)	31.7		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)				
2	Vector	675-17-003	5.00	11.50	16.50	20.75	16.50	36.50	72.50	25.50	97.25	72.50	25.50	97.25	N				
3	Vector	675-17-003													N				
DOWNHOLE JARS																			
ITEM	VENDOR	SERIAL#	LENGTH	ITEM	VENDOR	SERIAL#	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D+C	FAILURE?					
BIT	Smith	LR5608	0.25	BIT	Smith	LX6240	0.25	2	Cougar	65012V	72.50	24.75	97.25	N					
Motor	Vector	675-17-003	6.04	Motor	Vector	675-17-003--	6.04	3	Cougar	65012V				N					
Float	Anadrill	1316579	0.59	Float	Anadrill	1316579	0.59	MWD											
UBHO	Anadrill	1416514	0.66	UBHO	Anadrill	1416514	0.66	RUN	COMP.	HRS Idy	HRS m	COMMENTS	FAILURE?						
NMDC	Anadrill	1916539	9.21	NMDC	Anadrill	1916539	9.21	2	SMA323	21.00	105.00		N						
X-Over	Anadrill	1216576	0.62	X-Over	Anadrill	1216576	0.62	2	SEA188	21.00	105.00		N						
6DC	Akita		55.71	1 S S	Cougar	STS-612-48	3.51	2	SBA4957	21.00	105.00		N						
Jar	Cougar	DJG 650-12	4.70	6DC	Akita		55.71												
10DC	Akita		91.81	Jar	Cougar	DJG 650-12	4.70	3	SMA323	3.00	108.00		N						
6 HWD	Akita		55.54	10DC	Akita		91.81	3	SEA1GB	3.00	108.00		N						
				6 HWD	Akita		55.54	3	SBA4557	3.00	108.00		N						
Comments:																			
The inside diameter of the shock sub is 54mm, making the MWD unit nonretrievable																			
TOTAL LENGTH			225.13	TOTAL LENGTH			228.84	TARGET TVD @ TIME											
PERSONNEL																			
DD: Eric Erickson		MWD: Barry Timmerman		AFE NUMBER 800044-8210-38 CONTRACT NUMBER															
DD:		MWD:		FIELD CELL # 1-403-813-7141 CO. MAN'S CELL #															
DD:		MWD:		SIGNATURE OF COMPANY'S REPRESENTATIVE															
DD:		MWD:		Al Anger															

750

2257.50

720

226

550

7,650

6747.50

51,317.50

Schlumberger

JOB NUMBER 40004524	DATE TUE FEB. 29, 2000	COMPANY Alberta Energy Corp	WELL NAME AEC Renaissance Tate G-18
COMPANY REPRESENTATIVE Al Anger		RIO NAME Akita #51	LOCATION Tate Lake G-18

DRILLING RECORD				TIME RECORD				COST ESTIMATE			
BIT NUMBER	3			TIME FROM	TO	DESCRIPTION		LIST SUPPLIER (if not Anadrill)		COST	
BIT SIZE	222			0.25	0:15	0:15	BOP Drill	SUPERVISION	1 @ 700.00	\$ 700.00	750
BIT TYPE	F37P			1.75	0:15	2:00	Directional Drill 1584 m to 1607 m	FLAT RATE	216		
JETS (mm)	14.3			0.25	2:00	2:15	Rlg Service	MOTOR HRS	18.75 @ 208.00	\$ 3,760.00	3937.50
DEPTH IN	1491			2.00	2:15	4:15	Directional Drill 1607 m to 1622 m	MOTOR DAILY			
DEPTH OUT				0.50	4:15	4:45	Accumulated Surveys	MOTOR STBY			
METERS	221			1.50	4:45	6:15	Circ up Sample	JARS			
HOURS	39.75			1.75	6:15	8:00	Directional Drill 1622 m to 1635 m	S. SHOT KIT	125.00		
ROP (m/hr)	5.6			0.25	8:00	8:15	Rlg Service	FLOAT SUB	1 25.00	\$ 25.00	20
RPM	20/90			6.25	8:15	14:30	Directional Drill 1635 m to 1673 m	MONEL	1 125.00	\$ 125.00	20
WOB	16/18			0.25	14:30	14:45	Flow Check	X/Over	1 25.00	\$ 25.00	20
PP ON	7000			0.50	14:45	15:15	Circulate up Sample	STABILIZERS			
PP OFF	5800			0.25	15:15	15:30	Directional Drill 1673 m to 1682 m	TB REAMER			
STG WT	55			0.50	15:30	16:00	Accumulated Surveys	MWD SUPER.	1 @ 500.00	\$ 500.00	550
P/U WT	58			0.50	16:00	16:30	Directional Drill 1682 m to 1683 m	MWD SYSTEMS	1 2500.00	\$ 2,500.00	2500
S/O WT	53			0.25	16:30	16:45	Rlg Service	GAMMA RAY			
PUMP DATA				6.75	16:45	23:30	Directional Drill 1683 m to 1712 m	MOTOR RELINE			
PUMP MAN.	NAT	NAT		0.50	23:30	0:00	Accumulated Surveys	THREAD INSPECTION			
PUMP MOD.	B-P-80	B-P-80									
Triplex/Duplex	Triplex	Triplex									
LINER	152mm	152mm									
STROKE	216mm	216mm									
CU. M./STRK	0.0118	0.0118									
STRKS/Min.	110										
VOLUME	1.30										
MUD REPORT											
MUD TYPE (Select)	Gel										
MUD WEIGHT	1070										
VISCOSITY (sec/L)	54										
WATER LOSS	10.5										
PH	11										
SAND											
TEMPERATURE (°C)	39.5	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	
3	Vector	675-17-003	19.25	2.50	21.75	39.75	4.75	44.50	112.25	32.50	144.75	112.25	32.50	144.75	N

BHA =				BHA =				DOWNHOLE JARS							
ITEM	VENDER	SERIAL#	LENGTH	ITEM	VENDER	SERIAL#	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D+C	FAILURE?	
BIT	Smith	LX6240	0.25					3	Cougar	85012V	112.25	32.50	144.75	N	
Motor	Vector	675-17-003	8.04												
Float	Anadrill	1318579	0.59												
UBHO	Anadrill	1418514	0.86												
NMDC	Anadrill	1918539	9.21												
X-Over	Anadrill	1218578	0.62												
1 S S	Cougar	ST5-612-48	3.61												
GDC	Akita		55.71												
Jar	Cougar	DJG 650-12	4.70												
10DC	Akita		91.81												
6 HWDf	Akita		55.54												

Comments															

TOTAL LENGTH		228.84	TOTAL LENGTH		TARGET TVD @ TIME	
PERSONNEL			AFE NUMBER		CONTRACT NUMBER	
DD:	Eric Erickson	MWD:	Barry Timmerman	FIELD CELL #	5000044-9210-352	1-403-813-7141
DD:		MWD:		CO. MAN'S CELL #		
DD:		MWD:		SIGNATURE OF COMPANY'S REPRESENTATIVE		
DD:		MWD:				

Al Anger

Schlumberger										Day 13									
JOB NUMBER 40004524		DATE THUR MARCH, 2, 2000		COMPANY Alberta Energy Corp				WELL NAME AEC Renaissance Tate G-18											
COMPANY REPRESENTATIVE Al Anger				RIG NAME Akita #51				LOCATION Tate Lake G-18											
DRILLING RECORD										TIME RECORD									
BIT NUMBER		4		TIME		FROM		TO		DESCRIPTION		LIST SUPPLIER (if not Anadrill)				COST			
BIT SIZE		222		1.00		1:00		1:00		RIH		SUPERVISION 1 @ 700.00				\$ 700.00			
BIT TYPE		F37P		2.50		1:00		3:30		Rig Repair		FLAT RATE 7.12							
JETS (mm)		14.3		1.00		3:30		4:30		RIH		MOTOR HRS 17.00 @ 208.00				\$ 3,536.00			
DEPTH IN		1768		0.75		4:30		5:15		Silp & Cut		MOTOR DAILY							
DEPTH OUT				0.50		5:15		5:45		Test MWD		MOTOR STBY							
METERS		134		2.25		5:45		8:00		RIH		JARS							
HOURS		12.75		0.75		8:00		8:45		Wash to Bottom		S. SHOT KIT 125.00							
ROP (m/hr)		10.5		2.00		8:45		10:45		Directional Drill 1768 m to 1777 m		FLOAT SUB 1 25.00				\$ 25.00			
RPM		20/80		1.50		10:45		12:15		Circulate		MONEL 1 125.00				\$ 125.00			
WOB		18/18		0.25		12:15		12:30		Directional Drill 1777 m to 1779 m		X/Over 1 25.00				\$ 25.00			
PP ON		7000		0.25		12:30		12:45		Rig Service		STABILIZERS							
PP OFF		5800		3.00		12:45		15:45		Directional Drill 1779 m to 1817 m		TB REAMER							
STG WT		65		0.25		15:45		16:00		Accumulated Surveys		MWD SUPER 1 @ 500.00				\$ 500.00			
P/U WT		69		1.00		18:00		17:00		Directional Drill 1817 m to 1827 m		MWD SYSTEMS 1 2900.00				\$ 2,900.00			
S/O WT		63		0.25		17:00		17:15		Rig Service		GAMMA RAY							
PUMP DATA				6.50		17:15		23:45		Directional Drill 1827 m to 1902 m		MOTOR RELINE							
PUMP MAN.		NAT NAT		0.25		23:45		0:00		Accumulated Surveys		THREAD INSPECTION							
PUMP MOD.		B-P-80 B-P-80																	
Triplex/Duplex		Triplex Triplex																	
LINER		152mm 152mm																	
STROKE		216mm 216mm																	
CU. M/STK		0.0118 0.0118																	
STRKS/Min.		100																	
VOLUME		1.18																	
MUD REPORT																			
MUD TYPE (Gel,ect.)		Gel																	
MUD WEIGHT		1080																	
VISCOSITY (sec/L)		73																	
WATER LOSS																			
pH		11																	
SAND																			
TEMPERATURE (°C)		44.9		24.00		TOTAL													
DOWNHOLE MOTORS																			
RUN		MAKE		SER. NO.		Dally		Run		Well		Total		FAILURE?					
						Drill		Circ		D+C		Drill		Circ		D+C			
1		Vector		3109-67198-10		12.75		3.25		16.00		12.75		2.75		16.00			
BHA # 4										BHA #									
ITEM		VENDOR		SERIAL#		LENGTH		ITEM		VENDOR		SERIAL#		LENGTH		RUN			
BIT		Smith		LX6668		0.25										4			
Motor		Vector		3109-67198-10		7.06										Cougar			
Float		Anadrill		1316579		0.59										65012V			
UBHO		Anadrill		1418514		0.66										121.50			
NMDC		Anadrill		1916539		9.21										31.25			
X-Over		Anadrill		1216578		0.62										152.75			
1 S S		Cougar		ST5-612-48		3.51										N			
6DC		Akita				55.71										N			
Jar		Cougar		DJG 650-12		4.70										N			
10DC		Akita				91.81										N			
6 HWD		Akita				55.54										N			
Comments																			
TOTAL LENGTH										229.68									
PERSONNEL										TARGET TVD @ TIME									
DD: Eric Erickson										MWD: Barry Timmerman									
DD: MWD:										MWD:									
DD: MWD:										MWD:									
DD: MWD:										MWD:									
AFE NUMBER 500044-9210-362										CONTRACT NUMBER									
FIELD CELL # 1-403-813-7141										CO. MAN'S CELL #									
SIGNATURE OF COMPANY'S REPRESENTATIVE																			

750

3570

340

340

450

3050

8055.

86,637.50

Schlumberger

JOB NUMBER 40004524		DATE FRI MARCH, 3, 2000		COMPANY Alberta Energy Corp		WELL NAME AEC Renaissance Tate G-18	
COMPANY REPRESENTATIVE Al Anger				RIG NAME Akita #51		LOCATION Tate Lake G-18	

DRILLING RECORD				TIME RECORD				COST ESTIMATE			
BIT NUMBER	4			TIME	FROM	TO	DESCRIPTION	LIST SUPPLIER (If not Anadrill)		COST	
BIT SIZE	222			1.75		1:45	Directional Drill 1902 m to 1930 m	SUPERVISION 1 @ 700.00		\$ 700.00	
BIT TYPE	F37P			0.25	1:45	2:00	Rig Service	FLAT RATE		21.12	
JETS (mm)	14.3			5.25	2:00	7:15	Directional Drill 1930 m to 1988 m	MOTOR HRS 21.50 @ 280.00		\$ 4,200.00	
DEPTH IN	1768			0.75	7:15	8:00	Accumulated Surveys	MOTOR DAILY			
DEPTH OUT				0.25	8:00	8:15	Rig Service	MOTOR STBY			
METERS	241			7.50	8:15	15:45	Directional Drill 1988 m to 1988 m	JARS			
HOURS	34			0.25	15:45	16:00	Accumulated Surveys	S. SHOT KIT	125.00		
ROP (m/hr)	7.1			6.75	16:00	22:45	Directional Drill 1988 m to 2008 m	FLOAT SUB 1 @ 25.00		\$ 25.00	
RPM	2090			0.25	22:45	23:00	Rig Service	MONEL 1 @ 125.00		\$ 125.00	
WOB	18/18			0.75	23:00	23:45	Directional Drill 2008 m to 2008 m	X/Over 1 @ 25.00		\$ 25.00	
PP ON	7000			0.25	23:45	0:00	Accumulated Surveys	STABILIZERS			
PP OFF	5800							TB REAMER			
STG WT	65							MWD SUPER. 1 @ 500.00		\$ 500.00	
P/U WT	69							MWD SYSTEMS 1 @ 2900.00		\$ 2,900.00	
S/O WT	63							GAMMA RAY			
PUMP DATA								MOTOR RELINE			
PUMP MAN.	NAT	NAT						THREAD INSPECTION			
PUMP MOD.	8-P-60	8-P-80									
Triplex/Duplex	Triplex	Triplex									
LINER	152mm	152mm									
STROKE	216mm	216mm									
CU. M./STRK	0.0118	0.0118						SUBSISTENCE (Camp?)	Yes		
STRKS/Min.	100							camp			
VOLUME	1.18							MILEAGE			
MUD REPORT								VEH. LIC. #	KM TDYKM ACC		
MUD TYPE (Gel,ect.)	Gel										
MUD WEIGHT	1185										
VISCOSITY (sec/L)	46										
WATER LOSS	8.5							KM TODAY	0.75	\$ -	
pH	11							KM ACCUM.			
SAND								DAILY TOTAL	\$	8,525.00	
TEMPERATURE (°C)	44.9	24.00	TOTAL					ACCUMULATED		\$ 23,975.00	

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	Vector	3109-67198-10	22.00	1.25	23.25	34.00	4.00	38.00	34.00	4.00	38.00	34.00	4.00	38.00	N

SHA # 1				SHA # 2				DOWNHOLE JARS							
ITEM	VENDER	SERIAL#	LENGTH	ITEM	VENDER	SERIAL#	LENGTH	RUN	MAKE	SER. #	Drill	Circ	D+C	FAILURE?	
BIT	Smith	LX8													

[illegible]