

Schlumberger

Anadrill

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

40003197

SUNCOR ENERGY INC.
POST WELL ANALYSIS REPORT FOR
SUNCOR NETLA
K-77-60-50-122-30

N.E.B. COPY

MICROFILMED
SUR MICROFILM:

Job Identification

Suncor Inc. Resources Group

Project ID: Suncor Energy Netla
Pad ID: Single well
Well ID: Suncor Netla K-77-60-50-122-30
Unique ID: K77-60-50-122-30

Operator: Suncor Inc. Resources Group
Address: Calgary Alberta

Co Rep: Lee Brazel- Pat Miller

Contractor: Akita Drilling
Rig ID: Akita 58
Pusher: Dave Lauck

Service Co: Anadrill - Schlumberger
District: Calgary, Alberta
DD Eng: Maurice Deschamps
MWD Eng: Brad Erick Warren Cox

Start Date: February 15 1999
Release Date: february 26 1999
Total Days: #VALUE!

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Well Specifications

Suncor Inc. Resources Group

Well Name: Suncor Netla K-77-60-50-122-30

Well Number: K77-60-50-122-30

Field Name: Netla (CDN)

Area: South Eastern

KB level (above sea): 625.2m **Magnetic Declination:** 26.763 degrees

Ground Level (above sea): 618.40m

KB to Ground level : 6.8m

Surface Location

N-S Coord: Lat. N60-46-30.724

E-W Coord: Lon. W122-44-23.945

Target Loc: Planned

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

N-S Coord: 261.40 North

E-W Coord: 100.34 West

TVD: 1951.00 m

Target Radius:

N-S Coord: 264.96 North

E-W Coord: 91.08 West

TVD: 1930.67m

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Well Descriptions

Suncor Inc. Resources Group

Suncor Netla K-77-60-50-122-30

K77-60-50-122-30

Project Description: Proposed

The Suncor Netla K77-60-50-122-30 is a proposed "S" Type well with a kick off at 1105 meters measured depth. A three degree per 30 build rate will be used to build to an inclination of 23.3 degrees in an azimuth of 339 degrees direction. This angle will be held through the hold section to a TVD of 1724.69 meters. Where the well will be dropped at a rate of 3 degrees per 30 maintaining the azimuth of 339 degrees until the inclination reaches 0 maintaining this inclination to the top of the Slave Point formation. Where the tools will be laid down casing run and the service rig will complete the drilling of the well to TD where they will put the well into production.

Project Results: Actual

The well was kicked off at 1105.0 meters and was .14 meters North and .18 meters East of well center. The build section went well when reaching the hold section the formation called the Ft Simpson has a tendency to build in inclination this was very true it was difficult to control the build with slides from four to nine meter. The end results was an inclination of 28 degrees at the drop of point. At the start of the drop we were able to get our results then we were sliding nine meters and getting builds instead of drops. We pulled the motor and raised the motor setting from 1.50 to 2.12 degrees. We needed some large doglegs to get to the target at this point and we were able to achieve this with this setting but it was very difficult to control the doglegs each survey with the the same amount of slide was totally different from .63 to 7.00 degree doglegs with the same slide. Right to the target when you rotated you got builds and drastic turns to the right. The target was penetrated at approximately 264.96 meters North and 91.08 meters West of hole center. This put the entry at approximately 4.86 meters from target center.....

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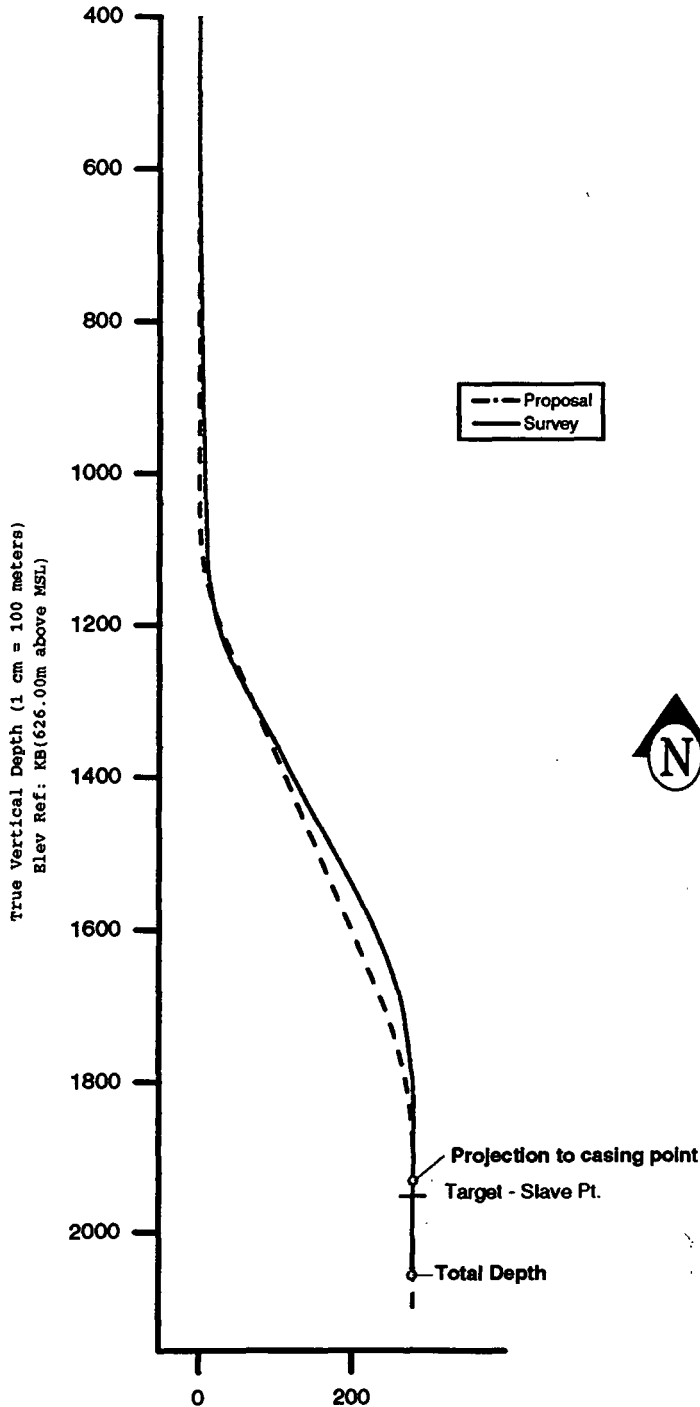
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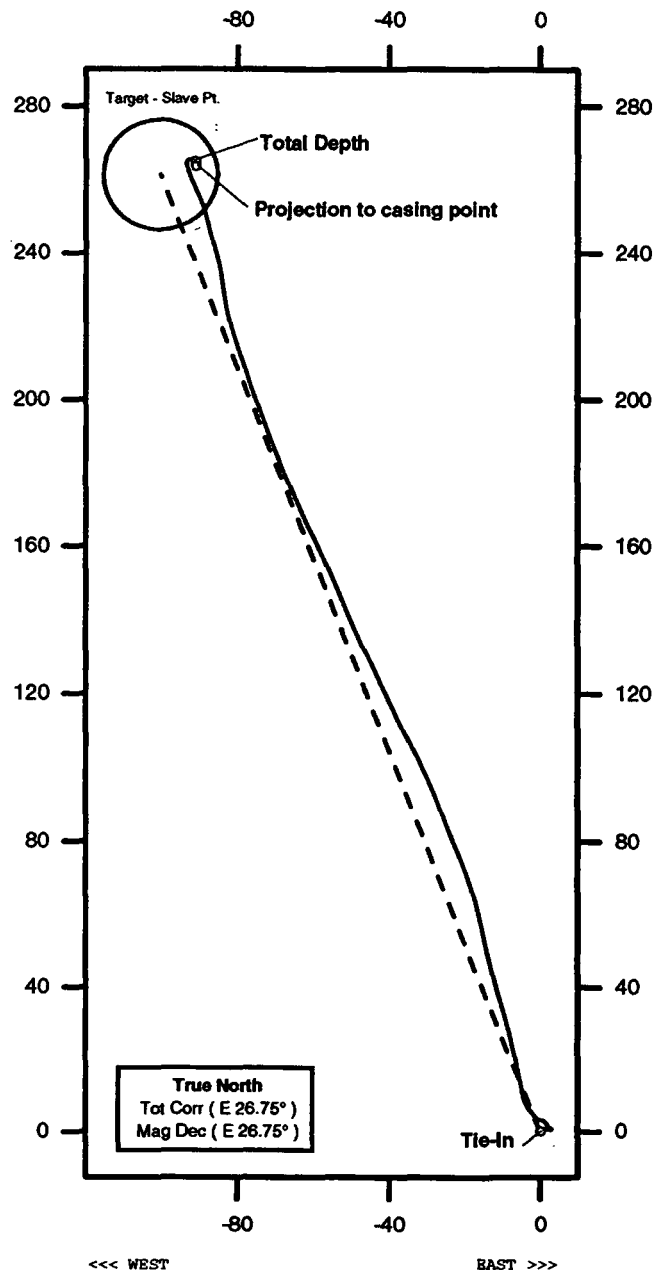
WELL	FIELD	STRUCTURE
	NETLA (CDN)	Suncor/K-77
Magnetic Parameters Model: BGS 1998 Dip: 79.004° Mag Dec: 26.752° Date: February 17, 1999 FS: 59071.8 nT		Miscellaneous Slot: Suncor Netla K-77-60-55-122-30 Elev Ref: KB(626.00m above MSL) Date Drawn: 11:54:51AM 11-Mar-1999
Surface Location Lat: N60 46 30.724 Lon: W122 44 23.945 North: 6737571.92 m East: 514162.95 m Grid Conv: 0.2269° Scale Fact: 0.9996		

COMPLETION DRAWING

Vertical Section View



PLAN VIEW Scale (1 cm = 20 meters)



Survey
Anadrill
Final Survey

Client: SUNCOR ENERGY	Survey Computation Method: Minimum Curvature
Field: NETLA (CDN)	DLS Computation Method: Lubinski
Structure: Suncor/K-77	Vertical Section Azimuth: 339.000°
Well:	Vertical Section Origin: N 0.000 m, E 0.000 m
Borehole: Job # 40003197	TVD Reference: KB
API #:	626.0 m above MSL
Date: March 11, 1999	Magnetic Declination: 26.752°
Grid Convergence: 0.22691852°	Total Field Strength: 59071.812 nT
Scale Factor: 0.99960246	Dip: 79.004°
	Declination Date: February 17, 1999
Location: N 60 46 30.724, W 122 44 23.945	Magnetic Declination Model: BGS 1998
: N 6737571.924 m, E 514162.948 m	North Reference: True North
Coordinate System: UTM Zone 10N	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 (°)
Tie-In	37.75	0.70	52.0	37.75	0.07	0.14	0.18	0.23	52.13	0.00	77.0MTF
	150.67	0.70	77.0	150.66	0.17	0.72	1.40	1.57	62.72	0.08	107.0MTF
	263.34	0.50	107.0	263.33	-0.23	0.73	2.54	2.64	73.92	0.10	-87.0MTF
	378.15	0.30	273.0	378.13	-0.41	0.60	2.72	2.78	77.54	0.21	82.0MTF
	503.00	0.50	82.0	502.98	-0.40	0.69	2.93	3.01	76.68	0.19	-39.4MTF
	551.00	0.30	320.6	550.98	-0.33	0.82	3.06	3.16	74.99	0.44	-53.0MTF
	591.00	0.70	307.0	590.98	-0.02	1.05	2.79	2.98	69.45	0.31	-36.0MTF
	677.00	1.00	324.0	676.97	1.15	1.97	1.93	2.76	44.46	0.14	-42.8MTF
	777.00	0.80	317.2	776.96	2.64	3.19	0.95	3.33	16.53	0.07	-86.0MTF
	792.00	1.75	274.0	791.96	2.83	3.28	0.65	3.34	11.15	2.58	-38.0MTF
	878.00	1.25	322.0	877.93	4.28	4.11	-1.24	4.30	343.21	0.45	-38.0MTF
	991.00	1.50	322.0	990.90	6.88	6.25	-2.91	6.89	335.03	0.07	-17.5MTF
	1093.10	1.90	342.5	1092.95	9.84	8.92	-4.24	9.87	334.56	0.21	-25.3MTF
	1102.90	2.10	334.7	1102.75	10.19	9.23	-4.37	10.21	334.69	1.03	-12.2MTF
	1111.40	3.20	347.8	1111.24	10.58	9.61	-4.48	10.60	334.98	4.41	-15.5MTF
	1121.50	4.40	344.5	1121.31	11.24	10.26	-4.65	11.26	335.62	3.62	-8.4MTF
	1131.50	5.70	351.6	1131.28	12.11	11.12	-4.82	12.12	336.55	4.32	-12.6
	1141.84	7.30	348.8	1141.55	13.25	12.27	-5.03	13.26	337.73	4.73	-3.9
	1151.02	8.90	348.1	1150.64	14.53	13.54	-5.28	14.53	338.67	5.24	5.8
	1161.00	10.10	348.8	1160.48	16.16	15.15	-5.61	16.16	339.67	3.62	-7.1
	1170.75	11.20	348.1	1170.06	17.93	16.91	-5.98	17.94	340.54	3.41	20.1
	1180.60	12.00	349.5	1179.71	19.88	18.86	-6.36	19.90	341.36	2.58	-11.7
	1189.28	13.60	348.1	1188.18	21.78	20.74	-6.74	21.81	342.01	5.63	0.0
	1199.24	15.80	348.1	1197.81	24.28	23.22	-7.26	24.32	342.64	6.63	-7.2
	1208.92	17.50	347.4	1207.08	27.02	25.93	-7.85	27.09	343.16	5.31	-14.5
	1218.46	19.30	346.0	1216.13	30.00	28.86	-8.54	30.09	343.51	5.83	-23.0
	1228.22	21.10	343.9	1225.29	33.35	32.11	-9.42	33.46	343.65	5.97	0.0
	1237.62	22.70	343.9	1234.02	36.85	35.48	-10.40	36.97	343.67	5.11	13.3
	1246.75	23.90	344.6	1242.40	40.44	38.95	-11.38	40.58	343.72	4.05	28.6
	1256.52	25.00	346.0	1251.29	44.46	42.86	-12.40	44.62	343.86	3.82	27.7
	1266.27	26.20	347.4	1260.09	48.64	46.96	-13.37	48.83	344.11	4.15	11.2
	1276.27	27.10	347.8	1269.02	53.07	51.34	-14.34	53.31	344.40	2.75	10.0
	1285.74	27.90	348.1	1277.42	57.39	55.62	-15.25	57.67	344.67	2.57	-48.6
	1295.49	28.50	346.7	1286.02	61.95	60.11	-16.26	62.27	344.87	2.76	-79.7
	1305.15	28.70	344.6	1294.50	66.54	64.59	-17.40	66.90	344.92	3.20	-84.8
	1314.72	28.90	341.0	1302.89	71.14	69.00	-18.77	71.50	344.78	5.35	-78.8
	1324.31	29.20	338.2	1311.27	75.79	73.36	-20.39	76.14	344.47	4.37	-60.4
	1334.00	29.60	336.8	1319.71	80.55	77.76	-22.20	80.86	344.06	2.46	60.3

Station ID	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N-S (m)	E-W (m)	Closure (m)	at Azim (°)	DLS (°/30m)	TF (°)
	1343.38	29.80	337.5	1327.86	85.19	82.04	-24.01	85.48	343.69	1.28	90.0
	1353.04	29.80	340.4	1336.24	89.99	86.52	-25.73	90.26	343.44	4.34	-129.9
	1362.59	28.70	337.5	1344.58	94.66	90.87	-27.40	94.92	343.22	5.53	168.0
	1371.99	27.20	338.2	1352.88	99.06	94.96	-29.06	99.30	342.98	4.90	-112.0
	1381.70	26.50	334.0	1361.54	103.44	98.96	-30.84	103.66	342.69	6.30	-108.1
	1391.10	26.40	333.3	1369.96	107.61	102.72	-32.69	107.79	342.34	1.05	-32.4
	1400.75	26.90	332.6	1378.58	111.91	106.57	-34.66	112.07	341.98	1.84	68.2
	1410.30	27.30	334.7	1387.08	116.24	110.47	-36.59	116.37	341.67	3.26	0.0
	1420.00	28.00	334.7	1395.68	120.73	114.54	-38.52	120.84	341.41	2.16	6.9
	1429.60	28.80	334.9	1404.12	125.29	118.67	-40.46	125.38	341.17	2.52	158.5
	1439.20	28.20	335.4	1412.56	129.86	122.83	-42.39	129.93	340.96	2.02	-151.7
	1448.90	27.60	334.7	1421.13	134.39	126.94	-44.30	134.45	340.76	2.11	-39.5
	1458.60	28.00	334.0	1429.71	138.89	131.02	-46.26	138.95	340.55	1.60	37.2
	1467.90	28.90	335.4	1437.89	143.31	135.02	-48.15	143.35	340.37	3.61	21.2
	1477.30	29.80	336.1	1446.08	147.91	139.23	-50.04	147.95	340.23	3.07	54.8
	1486.94	30.40	337.8	1454.42	152.74	143.67	-51.94	152.77	340.13	3.18	-146.2
	1496.20	29.70	336.8	1462.44	157.38	147.95	-53.73	157.40	340.04	2.74	168.8
	1505.80	28.50	337.3	1470.83	162.04	152.25	-55.55	162.07	339.96	3.83	-128.8
	1515.40	27.80	335.4	1479.29	166.57	156.40	-57.36	166.59	339.86	3.55	-47.9
	1525.00	28.10	334.7	1487.77	171.06	160.48	-59.26	171.07	339.73	1.39	0.7
	1534.41	29.30	334.7	1496.02	175.56	164.56	-61.19	175.57	339.60	3.83	66.1
	1543.97	29.70	336.5	1504.34	180.26	168.85	-63.14	180.27	339.50	3.01	161.7
	1553.50	29.20	336.8	1512.64	184.94	173.15	-64.99	184.95	339.43	1.66	130.7
	1563.01	28.89	337.6	1520.96	189.56	177.41	-66.78	189.56	339.37	1.51	136.9
	1572.60	28.50	338.4	1529.37	194.16	181.68	-68.51	194.16	339.34	1.68	139.7
	1582.20	28.20	338.9	1537.82	198.72	185.92	-70.17	198.72	339.32	1.23	75.6
	1591.80	28.30	339.7	1546.27	203.26	190.17	-71.77	203.27	339.32	1.22	132.6
	1601.40	28.00	340.4	1554.74	207.79	194.43	-73.32	207.80	339.34	1.39	180.0
	1610.60	27.20	340.4	1562.89	212.05	198.45	-74.75	212.06	339.36	2.61	148.5
	1619.90	26.20	341.8	1571.20	216.23	202.40	-76.10	216.23	339.39	3.81	180.0
	1629.60	25.60	341.8	1579.93	220.46	206.42	-77.43	220.47	339.44	1.86	-108.6
	1639.20	25.50	341.1	1588.59	224.60	210.35	-78.74	224.60	339.48	0.99	149.5
	1648.60	25.00	341.8	1597.09	228.60	214.15	-80.02	228.61	339.51	1.86	140.8
	1658.30	24.30	343.2	1605.91	232.64	218.01	-81.24	232.65	339.56	2.82	107.2
	1668.00	23.90	346.7	1614.76	236.58	221.83	-82.27	236.59	339.65	4.59	99.7
	1677.70	23.70	350.2	1623.64	240.44	225.66	-83.05	240.46	339.80	4.41	166.3
	1687.30	22.60	350.9	1632.46	244.14	229.39	-83.67	244.17	339.96	3.54	174.0
	1696.90	20.30	351.6	1641.40	247.57	232.86	-84.20	247.61	340.12	7.23	-147.5
	1706.70	18.90	348.8	1650.63	250.79	236.10	-84.76	250.85	340.25	5.16	-97.2
	1716.20	18.80	345.7	1659.62	253.83	239.09	-85.44	253.90	340.34	3.18	-131.0
	1725.70	18.50	344.6	1668.62	256.85	242.03	-86.22	256.92	340.39	1.46	159.2
	1735.30	16.90	346.7	1677.77	259.75	244.85	-86.94	259.83	340.45	5.38	-162.1
	1744.90	15.20	344.6	1686.99	262.38	247.42	-87.60	262.47	340.50	5.61	169.1
	1754.40	12.80	346.7	1696.21	264.66	249.65	-88.17	264.76	340.55	7.75	-171.9
	1764.10	10.20	344.6	1705.71	266.58	251.52	-88.65	266.69	340.59	8.14	-150.3
	1773.60	8.60	338.3	1715.09	268.13	252.99	-89.13	268.23	340.59	6.00	-144.4
	1783.20	8.30	336.8	1724.58	269.54	254.30	-89.67	269.64	340.58	1.16	-45.8
	1792.80	8.40	336.1	1734.08	270.93	255.58	-90.23	271.03	340.56	0.45	90.0
	1802.30	8.40	336.8	1743.48	272.32	256.85	-90.78	272.42	340.53	0.32	170.6
	1811.80	7.90	337.4	1752.88	273.67	258.09	-91.31	273.76	340.52	1.60	-166.9
	1821.40	7.20	336.1	1762.40	274.93	259.25	-91.80	275.02	340.50	2.25	167.3
	1831.00	6.50	337.5	1771.93	276.07	260.30	-92.25	276.16	340.48	2.25	132.4
	1840.60	6.10	341.8	1781.47	277.12	261.29	-92.62	277.22	340.48	1.93	154.9
	1850.10	5.80	343.2	1790.92	278.11	262.22	-92.92	278.20	340.49	1.05	168.8
	1859.70	4.90	345.3	1800.48	279.00	263.09	-93.16	279.09	340.50	2.88	-18.9MTF
	1869.30	3.70	341.1	1810.05	279.71	263.78	-93.37	279.81	340.51	3.87	-11.2MTF

Station ID	MD (m)	Incl (°)	Azim (°)	TVD (m)	VSec (m)	N-S (m)	E-W (m)	Closure (m)	at Azim (°)	DLS (°/30m)	TF (°)
	1878.70	2.90	348.8	1819.44	280.25	264.30	-93.51	280.35	340.52	2.91	6.4MTF
	1888.20	2.20	6.4	1828.93	280.65	264.71	-93.54	280.75	340.54	3.29	32.4MTF
	1897.80	1.90	32.4	1838.52	280.91	265.03	-93.43	281.02	340.58	3.02	54.2MTF
	1906.90	2.30	54.2	1847.62	281.05	265.26	-93.20	281.16	340.64	2.92	76.0MTF
	1916.60	2.60	76.0	1857.31	281.07	265.43	-92.83	281.20	340.72	3.01	86.4MTF
	1926.20	2.80	86.4	1866.90	280.97	265.50	-92.39	281.11	340.81	1.65	104.2MTF
	1945.40	2.00	104.2	1886.08	280.64	265.45	-91.59	280.80	340.96	1.69	118.9MTF
	1955.10	1.50	118.9	1895.77	280.44	265.34	-91.32	280.62	341.01	2.07	171.6MTF
	1974.20	0.60	171.6	1914.87	280.16	265.12	-91.08	280.33	341.04	1.94	178.4MTF
	1976.00	0.60	178.4	1916.67	280.14	265.10	-91.08	280.31	341.04	1.19	178.0MTF
Projection to casing point	1990.00	0.60	178.0	1930.67	280.00	264.96	-91.08	280.17	341.03	0.01	178.0MTF
Total Depth	2117.00	0.60	178.0	2057.66	278.74	263.63	-91.03	278.90	340.95	0.00	

Schlumberger		Anadrill		BHA DataSheet						
Suncor Inc. Resources Group										
JSO# 40003197		Depth In: 1105		Depth out: 1577		Mtr. Drig 472		BHA # 1		
Well Name:	Suncor Netla K-77-60-50-1	Date In:	FEB-16-99	Date Out:	FEB 22-99	Days:	#VALUE!	Hole Size:	222	
LSD:	K77-60-50-122-30	Slide Dist.:	108.0	Slide Hrs.:	18.98	Hrs.	Steering %	23%	PDM Run #: 1	
Field:	GGGGG	Rotate Dist.:	364.0	Rot. Hrs.:	63.52	Hrs.	Rotate %	77%	Drig hrs 82.50	
Province:	North West Territories	PDM R/S config:	7/8	Volume:	1.2	cu-m/min	Slide ROP:	5.7	Circ. Hrs: 13.25	
Rig:	Akita 58	ABH Set:	1.00	RPM S/DH:	40	90	Rot. ROP:	5.7	Tot. D&C: 95.75	
DD:	Maurice Deschamps	Motor Vendor	ANADRILL	Avg. WOB:	16	KdaN	Avg. ROP:	5.72	Inc. In: 0.70	
DD:		Reactive Torq.:	120	SPP Off/On:	7500	6000	Bit to Svy:	14	Azm. In: 52.00	
MWD:	Brad Erick	Mud Type:	PHOSPHATE	PV/YP:			Sand%		Inc. Out: 28.89	
MWD:	Warren Cox	Mud Wt:	1185	Chlorides:			Solid cont:		Azm. Out: 337.59	
Co. Rep:	Lee Brazel- Pat Miller	Mud Vis:		WL:	7.2		Oil/Water :		MWD BHT: 35.80	
String Wt:		P/U Wt.:	70000.0	S/O Wt.:	60000.0		BHA Wt.:	63000.0	Rot. Torq:	
Item	Description	Vendor	Serial #	FN/MAX OD	OD	ID	B. Conn	T. Conn	Length	Cum Len
1	F10TP	SMITH	LT77093						0.25	0.25
2	PDM @ 1.50 -7/8 XP	ANADRILL	675A-2573		171	N/A	4.5 REG	4.5 H90	7.83	8.08
3	FLOAT	ANADRILL	1316555		162	66	4.5 H90	4.5 H90	0.51	8.59
4	UBHO	ANADRILL	1416516		162	73	4.5 H90	4.5 H90	0.64	9.23
5	NMDC	ANADRILL	2016519		161	70	4.5 H90	4.5 H90	9.26	18.49
6	NMDC	ANADRILL	2016524		162	73	4.5 H90	4.5 H90	9.39	27.88
7	X / OVER	ANADRILL	1216579		160	71	4.5 H90	5.0 H90	0.30	28.18
8	5 DC s	AKITA					5.0 H90	5.0 H90	47.60	75.78
9	JARS						5.0 H90	5.0 H90	4.86	80.64
10	12-178 DCs	AKITA					5.0 H90	5.0 H90	114.39	195.03
11	X / OVER	ANADRILL					5.0 H90	4.5 IF	1.42	196.45
12	9 HWDP	AKITA					4.5 IF	4.5 IF	82.77	279.22
13										
14										
15										
16										
17										
18										
Make-up Torque										
Drill Collars			Hevi-Wate drill pipe			Motor Nut				
4.5 H90	23000 ft lb / 31000 N-m	2.9 AOH	3500 ft lb / 4700 N-m	3.38						
4.5 XH	22200 ft lb / 30800 N-m	2.9 H90	4600 ft lb / 7500 N-m	4.75					10000 ft lb / 14000 N-m	
4.5 FH	19800 ft lb / 27800 N-m	3.5 IF	9900 ft lb / 13800 N-m	6.75					18000 ft lb / 24400 N-m	
3.5 IF	9900 ft lb / 13000 N-m	4 FH	13250 ft lb / 18200 N-m	8.00					24000 ft lb / 33000 N-m	
2.9 AOH	3500 ft lb / 4700 N-m	4.5 XH	21800 ft lb / 30000 N-m							
2.9 H90	4600 ft lb / 6200 N-m	4.5 IF	29400 ft lb / 39800 N-m							
PH6	5500 ft lb / 7500 N-m	ALL TORQUE'S ARE FOR STEEL, USE 80% FOR MONEL'S								
Above is for Black Max motors										
Trip out BHA # 1 @ 555 m due to lack of penetration , all else acting normal . Bit was OK , balled up Change bit and set motor to 1.5 deg . Run in as BHA # 2 .										

Schlumberger		Anadrill		BHA DataSheet							
Suncor Inc. Resources Group											
JSO#	40003197	Depth In:	1577	Depth out:	1682	Mtr. Drlg	105	BHA # 2			
Well Name:	Suncor Netla K-77-60-50-1	Date In:	FEB-21-99	Date Out:	FEB-22-99	Days:	#VALUE!	Hole Size:	222		
LSD:	K77-60-50-122-30	Slide Dist.:	89.0	Slide Hrs.:	1.02	Hrs.	Steering %	85%	PDM Run #: 2		
Field:	Netla (CDN)	Rotate Dist.:	16.0	Rot. Hrs.:	19.73	Hrs.	Rotate %	15%	Drig hrs 20.75		
Province:	North West Territories	PDM R/S config:	7/8	Volume:	1.2	cu-m/min	Slide ROP:	87.3	Circ. Hrs: 4.00		
Rig:	Akita 58	ABH Set:	1.50	RPM S/DH:	30	90	Rot. ROP:	0.8	Tot. D&C: 24.75		
DD:	Maurice Deschamps	Motor Vendor:	ANADRILL	Avg. WOB:	18	KdaN	Avg. ROP:	5.06	Inc. In: 28.89		
DD:		Reactive Torq.:	160	SPP Off/On:	8000	9000	Bit to Svy:	14	Azm. In: 337.59		
MWD:	Brad Erick	Mud Type:	PHOSPHATE	PV/YP:			Sand%		Inc. Out: 24.30		
MWD:	Warren Cox	Mud Wt:	1185	Chlorides:			Solid cont:		Azm. Out: 343.16		
Co. Rep:	Lee Brazel- Pat Miller	Mud Vis:		WL:	7.5		Oil/Water:		MWD BHT: 35.80		
String Wt:	52000.0	P/U Wt.:	64000.0	S/O Wt.:			BHA Wt.:		Rot. Torq:		
Item	Description	Vendor	Serial #	FN/MAX OD	OD	ID	B. Conn	T. Conn	Length	Cum Len	
1	F10TP	SMITH	LT77093						0.25	0.25	
2	PDM @ 1.50 -7/8 XP	ANADRILL	675A-2573		171	N/A	4.5 REG	4.5 H90	7.83	8.08	
3	FLOAT	ANADRILL	1316555		162	66	4.5 H90	4.5 H90	0.51	8.59	
4	UBHO	ANADRILL	1416516		162	73	4.5 H90	4.5 H90	0.64	9.23	
5	NMDC	ANADRILL	2016519		161	70	4.5 H90	4.5 H90	9.26	18.49	
6	NMDC	ANADRILL	2016524		162	73	4.5 H90	4.5 H90	9.39	27.88	
7	X / OVER	ANADRILL	1216579		160	71	4.5 H90	5.0 H90	0.30	28.18	
8	5 DC s	AKITA					5.0 H90	5.0 H90	47.60	75.78	
9	JARS						5.0 H90	5.0 H90	4.86	80.64	
10	12-178 DCs	AKITA					5.0 H90	5.0 H90	114.39	195.03	
11	X / OVER	ANADRILL					5.0 H90	4.5 IF	1.42	196.45	
12	9 HWDP	AKITA					4.5 IF	4.5 IF	82.77	279.22	
13											
14											
15											
16											
17											
18											
Make-up Torque											
Drill Collars			Hevi-Wate drill pipe			Motor Nut					
4.5 H90	23000 ft lb / 31000 N-m	2.9 AOH	3500 ft lb / 4700 N-m				3.38				
4.5 XH	22200 ft lb / 30800 N-m	2.9 H90	4600 ft lb / 7500 N-m				4.75	10000 ft lb / 14000 N-m			
4.5 FH	18800 ft lb / 27800 N-m	3.5 IF	8900 ft lb / 13800 N-m				6.75	18000 ft lb / 24400 N-m			
3.5 IF	9900 ft lb / 13000 N-m	4 FH	13250 ft lb / 18200 N-m				8.00	24000 ft lb / 33000 N-m			
2.9 AOH	3500 ft lb / 4700 N-m	4.5 XH	21800 ft lb / 30000 N-m								
2.9 H90	4600 ft lb / 6200 N-m	4.5 IF	29400 ft lb / 39800 N-m								
PHS	5500 ft lb / 7500 N-m	ALL TORQUE'S ARE FOR STEEL, USE 80% FOR MONEL'S									
Above is for Black Max motors											
The motor was pulled because after the bit trip 1.5" setting would not drop it constantly built inclination before we change the bit it was responding favorably therefore we discussed the setting and stayed at 1.50.											

Schlumberger		Anadrill						BHA DataSheet		
Suncor Inc. Resources Group										
JSO#	40003197	Depth In:	1682	Depth out:	1990	Mtr. Drig	308	BHA # 3		
Well Name:	Suncor Netla K-77-60-50-1	Date In:	FEB-22-99	Date Out:	FEB 26 99		Days:	5	Hole Size:	222
LSD:	K77-60-50-122-30	Slide Dist.:	93.0	Slide Hrs.:	24.45	Hrs.	Steering %	30%	PDM Run #:	3
Field:	Netla (CDN)	Rotate Dist.:	215.0	Rot. Hrs.:	57.05	Hrs.	Rotate %	70%	Drig hrs	81.50
Province:	North West Territories	PDM R/S config:	7:8	Volume:	1.2	cu-m/min	Slide ROP:	3.8	Circ. Hrs:	26.50
Rlg:	Akita 58	ABH Set:	2.12	RPM S/DH:	30	90	Rot. ROP:	3.8	Tot. D&C:	108.00
DD:	Maurice Deschamps	Motor Vendor:	ANADRILL	Avg. WOB:	18-22	KdaN	Avg. ROP:	3.78	Inc. In:	24.30
DD:		Reactive Torq.:	160	SPP Off/On:	95000	11000	Bit to Svy:	14	Azm. In:	343.16
MWD:	Brad Erick	Mud Type:	PHOS	PV/YP:			Sand%		Inc. Out:	0.56
MWD:	Warren Cox	Mud Wt:	1189	Chlorides:			Solid cont:		Azm. Out:	178.00
Co. Rep:	Lee Brazel- Pat Miller	Mud Vls:	N/A	WL:			Oil/Water:		MWD BHT:	
String Wt:	78000.0	P/U Wt.:		S/O Wt.:			BHA Wt.:		Rot. Torq:	
Item	Description	Vendor	Serial #	FN/MAX OD	OD	ID	B. Conn	T. Conn	Length	Cum Len
1	F10TP	SMITH	LT77093						0.25	0.25
2	PDM @2.12 -7/8 XP	ANADRILL	675A-2573		171	N/A	4.5 REG	4.5 H90	7.83	8.08
3	FLOAT	ANADRILL	1316555		162	66	4.5 H90	4.5 H90	0.51	8.59
4	UBHO	ANADRILL	1416516		162	73	4.5 H90	4.5 H90	0.64	9.23
5	NMDC	ANADRILL	2016519		161	70	4.5 H90	4.5 H90	9.26	18.49
6	NMDC	ANADRILL	2016524		162	73	4.5 H90	4.5 H90	9.39	27.88
7	X / OVER	ANADRILL	1216579		160	71	4.5 H90	5.0 H90	0.30	28.18
8	5 DC s	AKITA					5.0 H90	5.0 H90	47.60	75.78
9	JARS						5.0 H90	5.0 H90	4.86	80.64
10	12-178 DCs	AKITA					5.0 H90	5.0 H90	114.39	195.03
11	X / OVER	ANADRILL					5.0 H90	4.5 IF	1.42	196.45
12	9 HWDP	AKITA					4.5 IF	4.5 IF	82.77	279.22
13										
14										
15										
16										
17										
18										
19										
20										
Bottom Hole Assembly Summary, Objectives VS Results: At the start it was hard to get drops with this setting once its back was broken we got our drops but we needed large doglegs to hit the target upon reaching low inclinations direction was very hard to hold the dip of the land pulled it to the right.										

JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 13 1999	SUNCOR INC. RESOURCES	SUNCOR NETLA
COMPANY REPRESENTATIVE		RIG NAME	LOCATION
LEE BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE	
BIT NO.			FROM	TO	ACTIVITY	LIST SUPPLIER (IF NOT ANADRILL)	COST
SIZE			00.00		TRAVEL FROM CALGARY TO	SUPERVISION 1 @ 725	\$ 725.00
TYPE					SUNCOR LOCATION K77-60-50-122-30	MOTOR HRS @	\$ -
JETS						MOTOR DAILY @	\$ -
DEPTH IN						MOTOR STBY @	\$ -
DEPTH OUT						JARS @	\$ -
HOURS						UBHO SUB @	\$ -
PP ON						MONEL @	
PP OFF						MIN EQUIP CHARGE	
FLOW			0800			WELL PLAN @	
RPM						TB REAMER	
STRING WT						TRAVEL DAY	
PAJ WT						MWD SYSTEMS	
S/O WT						GAMMA RAY	
WOB						MWD OPERATORS 1 @ 2 575	\$ 1,150.00
MUD REPORT						SUBSISTENCE (Note if Comp Job)	
PUMP TYPE						3 @ 75	225.00
LINER/STROKE (mm)			1600			Thruwd Insp. on Subs	60.00
CJ. M./STROKE						2 TRUCKS @ .75 / km.	
MUD TYPE						KILOMETERS TODAY	
MUD WEIGHT (g/cc)						KM ACCUMULATED	
VISCOSITY (sec)						VEHICLES	
WATER LOSS (mm)							
Ph							
SAND (%)						DAILY TOTAL	\$ 2160 1,875.00
TEMPERATURE (°C)						ACCUMULATED	2160 \$ 1,875.00

DOWNHOLE MOTORS					REMARKS	
RUN	MAKE	SER. NO.	CIRC. HOURS	TOTAL HOURS	AFE #	
MWD CONFIGURATION						
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS		
					TARGET TVD @ TIME	@
					TARGET TVD @ TIME	@
					TARGET TVD @ TIME	@

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 14 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
COMPANY REPRESENTATIVE		RIG NAME	LOCATION
LEE BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE	
BIT NO.			FROM	TO	ACTIVITY	LIST SUPPLIER (IF NOT ANADRILL)	COST
SIZE			0000		TRAVEL FROM CALGARY TO	SUPERVISION 1 @ 725	\$ 725.00
TYPE					SUNCORS LOCATION K77-60-50-122-	MOTOR HRS @	\$ -
JETS						MOTOR DAILY @	\$ -
DEPTH IN						MOTOR STBY @	\$ -
DEPTH OUT						JARS @	\$ -
HOURS						UBHO SUB @	\$ -
PP ON						MONEL @	
PP OFF						EQUIP CHARGE	
FLOW			0800			WELL PLAN @	
RPM						TS REAMER	
STRING WT						TRAVEL DAY	
P/U WT						MWD SYSTEMS	
S/O WT						GAMMA RAY	
WOB						MWD OPERATORS 1 @ 2 575	\$ 1,150.00
MUD REPORT						SUBSISTENCE (Note If Comp Job)	
PUMP TYPE						3 AT 75	275.00
LINER/STROKE (mm)			16.00				
CU. M./STROKE						2 TRUCKS @ 2700 @ .75 / km.	\$ 2,025.00
MUD TYPE						KILOMETERS TODAY	
MUD WEIGHT (g/cc)						KM ACCUMULATED	
VISCOSITY (sec)						VEHICLES	
WATER LOSS (mm)							
Ph							
SAND (%)						DAILY TOTAL	\$ 475.1 3,906.00
TEMPERATURE (°C)						ACCUMULATED	6285.7 \$ 5,778.00

DOWNHOLE MOTORS					REMARKS
RUN	MAKE	SIZE	CIRC. HOURS	TOTAL HOURS	AFE #
MWD CONFIGURATION					
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS	
					TARGET TVD @ TIME
					TARGET TVD @ TIME
					TARGET TVD @ TIME

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 15 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
COMPANY REPRESENTATIVE		RIG NAME	LOCATION
LESS BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE	
BIT NO.			FROM	TO	ACTIVITY	ST SUPPLIER (IF NOT ANADRIL)	COST
SIZE			0000		STANDBY ON LOCATION FOR	SUPERVISIC 1 @ 725	\$ 725.00
TYPE					SUNCOR ENERGY LTD.	MOTOR HRS @	\$ -
JETS					K77-60-50-122-30	MOTOR DAILY @	\$ -
DEPTH IN						MOTOR STBY @	\$ -
DEPTH OUT						JARS @	\$ -
HOURS						UBHO SUB @	\$ -
PP ON						MONEL @	
PP OFF						EQUIP CHARGE	1100.00
FLOW			0800			WELL PLAN @	
RPM						TB REAMER	
STRING WT						TRAVEL DAY	
P/U WT						MWD SYSTEMS	
S/O WT						GAMMA RAY	
WOB						MWD OPERATORS @ 575	\$ 1,150.00
MUD REPORT						SUBSISTENCE (Note If Comp Job)	
PUMP TYPE						3 @ 75	225.00
LINER/STROKE (mm)			1600				
CU. M./STROKE						1 Trucks X @ .75/km.	
MUD TYPE						KILOMETERS TODAY	
MUD WEIGHT (g/cc)						KM ACCUMULATED	
VISCOSITY (sec)						VEHICLES	
WATER LOSS (mm)							
Ph							
SAND (%)						DAILY TOTAL	\$ 3200.1875.00
TEMPERATURE (°C)						ACCUMULATED	##### \$ 7,650.00

DOWNHOLE MOTORS					REMARKS	
RUN	MAKE	SIZE	CIRC. HOURS	TOTAL HOURS	SAFE #	
MWD CONFIGURATION						
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS		
					TARGET TVD @ TIME	@
					TARGET TVD @ TIME	@
					TARGET TVD @ TIME	@

PERSONNEL		SIGNATURE
DD MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

Daily Drilling Report

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JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 16 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
LEE BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NO.	2		FROM	TO	ACTIVITY	LIST SUPPLIER (IF NOT ANADRILL)		COST
SIZE	222		11.00	12.00	PICK UP MOTOR	SUPERVISION	1 @ 725	\$ 725.00
TYPE	F 10 TP		12.00	13.30	TEST MWD TOOL	MOTOR HRS		\$ -
JETS	3/15.9		13.30	13.45	RIG SERVICE	MOTOR DAILY	@	\$ -
DEPTH IN	1105		13.45	16.00	MAKE UP BIT AND RUN IN	XP MOTOR USE	3 @ 30	\$ 90.00
DEPTH OUT						JARS	@	\$ -
HOURS	2.75		16.00	16.15	SURVEY 565M	UBHO SUB	@	\$ -
PP ON	7500		16.15	17.15	SLIP AND CUT	MONEL	@	\$ -
PP OFF	6500		17.15	17.45	RUN IN HOLE	DAY RATE		\$ 6,400.00
FLOW	1.2		17.45	18.15	REAM 655M	STABILIZERS	@	\$ -
RPM	30/90		18.15	18.45	RUN IN 689-792	TB REAMER		
STRING WT	64000		18.45	19.00	SURVEY 792M	2 MWD OPER	2 @ 575	\$ 1,150.00
PU WT	67000		19.00	20.30	RUN IN HOLE	MWD SYSTEMS		
S/O WT	62000		20.30	20.45	BREAK CIRC WASH 25M TO BTM.	GAMMA RAY		
WOB	12-16		20.45	21.30	DRILL 222mm HOLE			
MUD REPORT			21.30	21.45	SURVEY	SUBSISTENCE (Note if Comp Job)		
PUMP TYPE	EMSCO F-1000		21.45	23.45	DRILL 1107-1117			
LINER/STROKE (mm)	152/254		23.45	24.00	SURVEY 1112			
CU. M./STROKE						MILEAGE	@	\$
MUD TYPE	POTASIAM SULFATE					KILOMETERS TODAY		
MUD WEIGHT (g/cc)	1175					KM ACCUMULATED		
VISCOSITY (sec)						VEHICLES		
WATER LOSS (mm)	10							
Ph								
SAND (%)						DAILY TOTAL	\$	8,365.00
TEMPERATURE (°C)						ACCUMULATED	17850	\$ 16,018.00

[illegible]

PERSONNEL		SIGNATURE
DD, MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

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JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 17 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
LEE BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NO.	2		FROM	TO		LIST SUPPLIER (IF NOT ANADRILL)		COST
SIZE	222		00:00	6.75	DRILL FROM 1117-1155	SUPERVISION	1 @ 725	\$ 725.00
TYPE	F-10-TP		6.75	7.00	RIG SERVICE	MOTOR HRS		\$ -
JETS	3/15.9		700	800	ACCUMULATED SURVEYS	XP. MOTOR HRS	20 @ 30	\$ 580.00
DEPTH IN	1105					MOTOR STBY	@	\$ -
DEPTH OUT						JARS	@	\$ -
HOURS	23.50					UBHO SUB	@	\$ -
PP ON	7400					MONEL	@	\$ -
PP OFF	6800					DAY RATE		\$ 6,400.00
FLOW	1.2		0800	1475	DRILL FROM 1155-1202	STABILIZERS	@	\$ -
RPM	35/90		1475	1500	RIG SERVICE	TB REAMER		
STRING WT	65000		1500	1600	ACCUMULATED SURVEYS	2 MWVD OPER.	2 @ 575	\$ 1,150.00
PAU WT	68000					MWVD SYSTEMS		
S/O WT	63000					GAMMA RAY		
WOB	12-18							
MUD REPORT						SUBSISTENCE (Note If Comp Job)		
PUMP TYPE	EMSCO F-1000					3 @ 75		
LINER/STROKE (mm)	152/254		1600	2200	DRILL FROM 1202-1258			
CLL ML/STROKE			2200	2225	RIG SERVICE	MILEAGE	@	\$
MUD TYPE	POTASIAM SULFATE		2225	2400	ACCUMULATED SURVEYS	KILOMETERS TODAY		
MUD WEIGHT (g/cc)	1150					KM ACCUMULATED		
VISCOSITY (sec)	N/A					VEHICLES		
WATER LOSS (mm)	8							
PH	10							
SAND (%)						DAILY TOTAL		\$ 8875.00 8,880.00
TEMPERATURE (°C)						ACCUMULATED		24725 - \$ 24,875.00

DOWNHOLE MOTORS						
RUN	MAKE	SER. NO.	CIRC. HOURS	TOTAL HOURS		
MWD CONFIGURATION						
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS		
2	E047	24	35	mode 1230		
2	P947	24	35	F5(45 5/12imp)		
2	B3187	24	35	New Battery	AFE #	
	E213	0	0	STANDBY	TARGET TVD @ TIME	@
	P227	0	0	STANDBY	TARGET TVD @ TIME	@
	B3186	0	1.6	STANDBY	TARGET TVD @ TIME	@

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICKS	
DD.	MWD. WARREN COX	

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JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 18 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
LEE BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NO.	2		FROM	TO		LIST SUPPLIER (IF NOT ANADRILL)		COST
SIZE	222		00:00	0650	DRILL	SUPERVISION @		\$ 725.00
TYPE	F 10 -TP		0650	0715	SURVEYS	MOTOR HRS		\$ -
JETS	3/15.9		0715	0800	RIG SERVICE	XP MOTOR COST	21 @ 30	\$ 630.00
DEPTH IN	1105					MOTOR STBY @		\$ -
DEPTH OUT						JARS @		\$ -
HOURS	43.75					UBHO SUB @		\$ -
PP ON	7500					MONEL @		\$ -
PP OFF	6800					DAY RATE		\$ 6,400.00
FLOW	1.2		0800	1215	DRILL 1298-1319	STABILIZERS @		\$ -
RPM	30/90		1215	1230	BOP DRILL	TB REAMER		
STRING WT	670000		1230	1245	RIG SERVICE	2 MWD OPER.	2 @ 575	\$ 1,150.00
PUJ WT			1245	1500	DRILL 1315 -1335	MWD SYSTEMS		
S/O WT			1500	1800	ACCUMULATED SURVEYS	GAMMA RAY		
WOB	15-18							
MUD REPORT						SUBSISTENCE (Note If Comp Job)		
PUMP TYPE	EMSCO- F-1000							
LINER/STROKE (mm)	152/254		1600	1945	DRILL 1335-1357			
CU. M/STROKE			1945	2000	BOP DRILL	MILEAGE @	\$	
MUD TYPE	POTASIAM SULFATE		2000	2300	DRILL 1357	KILOMETERS TODAY		
MUD WEIGHT (g/cc)	1155		2300	2400	ACCUMULATED SURVEYS	KM ACCUMULATED		
VISCOSITY (sec)						VEHICLES		
WATER LOSS (mm)	7.5							
Ph	10.5							
SAND (%)						DAILY TOTAL		\$ 8,905.00
TEMPERATURE (°C)						ACCUMULATED		35630 \$ 33,780.00

DOWNHOLE MOTORS					REMARKS	
RUN	MAKE	SER. NO.	CIRC. HOURS	TOTAL HOURS	AFE #	
MWD CONFIGURATION						
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS		
2	E047	24	59	MODE 1230		
2	P847	24	59	45 5/12 IMP		
2	B3187	24	59	NEW		
	E213			STANDBY	TARGET TVD @ TIME	@
	P227			STANDBY	TARGET TVD @ TIME	@
	B3186		1.5	STANDBY	TARGET TVD @ TIME	@

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD WARREN COX	

Schlumberger

Anadrill

Daily Drilling Report

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JOB NUMBER 40003197	DATE FEBRUARY 19 1999	COMPANY SUNCOR ENERGY INC.	WELL NAME SUNCOR NETLA
LEE BRAZEL- PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NO.	2		FROM	TO	ACTMITY	LIST SUPPLIER (IF NOT ANADRILL)		COST
SIZE	222		00:00	0500	DRILL 1373-1395	SUPERVISION	1 @ 725	\$ 725.00
TYPE	F-10-TP		0500	0515	RIG SERVICE	MOTOR HRS	@	
JETS	3/15.9		0515	0700	DRILL -1395 -1408	MOTOR DAILY	@	
DEPTH IN	1105		0700	0800	ACCUMULATED SURVEYS	XP MOTOR TIME	21 @ 30	630.00 ←
DEPTH OUT						JARS	@	
HOURS	63.25					UBHO SUB	@	
PP ON	8800					MONEL	@	
PP OFF						DAY RATE		\$ 6,400.00
FLOW	1.2		0800	1215	DRILL-1408-1433	STABILIZERS	@	
RPM	30/90		1215	1230	RIG SERVICE	TB REAMER		
STRING WT			1230	1500	DRILL-1433-1443	2 MWD OPER	2 @ 575	\$ 1,150.00
PU WT			1500	1600	ACCUMULATED SURVEYS	MWD SYSTEMS		
S/O WT						GAMMA RAY		
WOB	15-20					COMPUTER & WELL PLAN		
MUD REPORT						SUBSISTENCE (Note If Comp Job)		
PUMP TYPE	EMSCO F-1000					3 @ 75.00		
LINER/STROKE (mm)	152/254		1600	2300	DRILL -1443 -			
CU. M/STROKE			2300	2400	ACCUMULATED SURVEYS	MILEAGE	100 @ 0.75	\$ 75.00
MUD TYPE	POTASSIUM SULFATE					KILOMETERS TODAY	600	
MUD WEIGHT (g/cc)	1185					KM ACCUMULATED	600	
VISCOSITY (sec)						VEHICLES		
WATER LOSS (mm)	7.8					TGH-807		
PH	10.5							
SAND (%)						DAILY TOTAL	\$ 8980.	\$ 8,358.00
TEMPERATURE (°C)	45.5					ACCUMULATED	44610.	\$ 42,130.00

DOWNHOLE MOTORS					REMARKS
RUN	MAKE	SER. NO.	CRC. HOURS	TOTAL HOURS	AFE #
MWD CONFIGURATION					
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS	
2	E047	24	83	MODE 1230	
2	P847	24	83	45 5/12 IMP	
2	B3187	24	83	NEW	
	E213			STANDBY	TARGET TVD @ TIME @
	P227			STANDBY	TARGET TVD @ TIME @
	B3188		1.5	STANDBY	TARGET TVD @ TIME @

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD WARREN COX	

JOB NUMBER 3197	DATE FEBRUARY 20 1999	COMPANY SUNCOR ENERGY LTD	WELL NAME SUNCOR NETLA
COMPANY REPRESENTATIVE LEE BRAZEL - PAT MILLER		RIG NAME AKITA 58	LOCATION K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE	
BIT NO.	2		FROM	TO	ACTMITY	LIST SUPPLIER (IF NOT ANADRILL)	COST
SIZE	222		00:00	01:00	Drill 1484-1491m	SUPERVISION 1 @ 725	\$ 725.00
TYPE	F-10-TP		01:00	01:15	Rlg Service	MOTOR HRS @	
JETS	3/15.9		01:15	07:15	Drill 1491-1514m	MOTOR DAILY 22 @ 30	\$ 660.00
DEPTH IN	1105		07:15	08:00	surveys	MOTOR STBY @	
DEPTH OUT	1577					JARS @	
HOURS	82.5					UBHO SUB @	
PP ON	8800					MONEL @	
PP OFF						DAY RATE	\$ 6,400.00
FLOW	1.2		08:00	14:30	Drill 1514-1548m	STABILIZERS @	
RPM	30/90		14:30	14:45	Rlg Service	TS REAMER	
STRING WT			14:45	15:00	Drill 1548-1551m	TRAVEL DAY <i>inspections</i>	<i>300.00</i>
PIU WT	10,000		15:00	16:00	Surveys	MWD SYSTEMS	
SAO WT	9,000					MWD OPERATOR! 2 @ 575	\$ 1,150.00
WOB	17-20					COMPUTER & WELL PLAN	
MUD REPORT						SUBSISTENCE (Note if Comp Job)	
PUMP TYPE	EMSCO F-1000					CAMP	
LINER/STROKE (mm)	152/254		16:00	17:30	Drill 1551-1558m		
CUL. M/STROKE			17:30	17:45	Change Shaker Screens	MILEAGE @ 0.75	\$
MUD TYPE	POTASSIUM SULFATE		17:45	21:45	Drill 1558-1577m	KILOMETERS TODAY	
MUD WEIGHT (g/cc)	1190		21:45	22:30	Acc. Surveys	KM ACCUMULATED 2800	
VISCOSITY (sec)			22:30	24:00	POOH	VEHICLES	
WATER LOSS (mm)	7.8					TGH-907	
Ph	10.5						
SAND (%)						DAILY TOTAL	\$ 9225. 8,935.00
TEMPERATURE (°C)	47.8					ACCUMULATED	<i>53845</i> \$ 51,065.00

DOWNHOLE MOTORS					REMARKS
RUN	MAKE	SER. NO.	CIRC. HOURS	TOTAL HOURS	AFE #
MWD CONFIGURATION					
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS	
2 E047		24	107	MODE 1230	
2 P947		24	107	45 5/12 IMP	
2 B3187		24	107	NEW	
	E213			STANDBY	TARGET TVD @ TIME @
	P227			STANDBY	TARGET TVD @ TIME @
	B3186		1.5	STANDBY	TARGET TVD @ TIME @

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD WARREN COX	

JOB NUMBER 4E+07	DATE FEBRUARY 21 1999	COMPANY SUNCOR ENERGY LTD.	WELL NAME SUNCOR NETLA
COMPANY REPRESENTATIVE LEE BRAZEL - PAT MILLER	RIG NAME AKITA 58	LOCATION K77-60-50-122-30	

DRILLING RECORD			TIME RECORD			COST ESTIMATE	
BIT NO.	2	3	FROM	TO	ACTMITY	LIST SUPPLIER (IF NOT ANADRILL)	COST
SIZE	222	222	00:00	0400	PULL OUT OF HOLE	SUPERVISION @	\$ 725.00
TYPE	F-10-TP	F-10-TP	0400	0500	LAY DOWN TOOLS	MOTOR HRS 11.75 @ 30	\$ 352.50
JETS	3/15.9	3/15.9	0500	0645	PICK UP TOOLS	MOTOR DAILY @	\$ -
DEPTH IN	1105	1577	0645	0700	RIG SERVICE	MOTOR STBY @	\$ -
DEPTH OUT	1577		0700	0800	MAKE UP BIT AND RUN IN HOLE	JARS @	\$ -
HOURS	82.50	10.25				UBHO SUB @	\$ -
PP ON	9000	9500				MONEL @	\$ -
PP OFF	8000	8000				DAY RATE	\$ 6,400.00
FLOW	1.2	1.2	08:00	0830	RUN IN HOLE TO 565	MWD OPER 2 @ 575	\$ 1,150.00
RPM	30/90	30/90	0830	0900	SHALLOW TEST	TB REAMER	
STRING WT	69000	69000	0900	1100	RUN IN HOLE TO 565	TRAVEL DAY	
PIU WT			1100	1130	WASH AND REAM FROM 1528-1577	MWD SYSTEMS	
S/O WT			1130	1145	CORRECT TOOL FACE	GAMMA RAY	
WOB	18-20	18-20	1145	1330	DRILL 1577-1586	COMPUTER & WELL PLAN	
MUD REPORT			1330	1345	RIG SERVICE	SUBSISTENCE (Note if Comp Job)	
PUMP TYPE	EMSCO F 1000		1345	1530	DRILL 1586-1597		
LINER/STROKE (mm)	152/254		1630	1600	ACCUMULATE SURVEYS		
CUL. M./STROKE						MILEAGE @ 0.75	
MUD TYPE	POTASSIUM SULFATE		1600	2330	DRILL 1597-1630	KILOMETERS TODAY 600	
MUD WEIGHT (g/cc)	1190		230	2400	ACCUMULATE SURVEYS	KM ACCUMULATED 600	
VISCOSITY (sec)						VEHICLES	
WATER LOSS (mm)	8.2					TGH-907	
Ph	10.5						
SAND (%)						DAILY TOTAL	\$ 8,627.50
TEMPERATURE (°C)						ACCUMULATED	62472.50 \$ 59,692.50

DOWNHOLE MOTORS					REMARKS
RUN	MAKE	SER. NO.	CRC. HOURS	TOTAL HOURS	AFE #
MWD CONFIGURATION					
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS	
2, 3	E047	24	131	MODE 1230	
2, 3	P947	24	131	45 5/12 IMP	
2, 3	B3187	24	131	NEW	
	E213			STANDBY	TARGET TVD @ TIME @
	P227			STANDBY	TARGET TVD @ TIME @
	B3186		1.5	STANDBY	TARGET TVD @ TIME @

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

JOB NUMBER 3197	DATE FEBRUARY 22 1999	COMPANY SUNCOR ENERGY LTD	WELL NAME SUNCOR NETLA
COMPANY REPRESENTATIVE LEE BRAZEL - PAT MILLER		RIG NAME AKITA 58	LOCATION K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NO.	2	3	FROM	TO	ACTVITY	LIST SUPPLIER (IF NOT ANADRILL)	COST	
SIZE	222	222	00:00	02:40	Drill 1630-1643m	SUPERVISION 1 @ 725	\$	725.00
TYPE	F-10-TP	F-10-TP	02:40	03:00	Rlg Service	MOTOR HRS @		
JETS	3/15.9	3/15.9	03:00	07:00	Drill 1643-1661m	MOTOR DAILY 16 @ 30	\$	480.00
DEPTH IN	1105	1577	07:00	08:00	surveys	MOTOR STBY @		
DEPTH OUT	1577	1682				JARS @		
HOURS	82.5	20.75				UBHO SUB @		
PP ON	8800	9500				MONEL @		
PP OFF		8000				DAY RATE	\$	6,400.00
FLOW	1.2	1.2	08:00	10:30	Drill 1661-1681m	STABILIZERS @		
RPM	30/90	30/90	10:30	11:45	surveys	TB REAMER		
STRING WT		68000	11:45	13:00	Pump out stands	TRAVEL DAY		
PU WT	10,000		13:00	13:15	Rlg Service	MWD SYSTEMS		
S/O WT	9,000		13:15	16:00	POOH	MWD OPERATOR: 2 @ 575	\$	1,150.00
WOB	17-20	16				COMPUTER & WELL PLAN		
MUD REPORT						SUBSISTENCE (Note if Comp Job)		
PUMP TYPE	EMSCO F-1000					CAMP		
LINER/STROKE (mm)	152/254		16:00	17:00	POOH			
CU. M./STROKE			17:00	17:45	Orient motor	MILEAGE @ 0.75	\$	
MUD TYPE	POTASSIUM SULFATE		17:45	18:15	Safety Meeting	KILOMETERS TODAY		
MUD WEIGHT (g/cc)	1185		18:15	22:30	RIH	KM ACCUMULATED 2800		
VISCOSITY (sec)			22:30	22:45	Break Circ.	VEHICLES		
WATER LOSS (mm)	7.2		22:45	23:15	Orient tool face	TGH-907		
Ph	9.5		23:15	24:00	Drill 1681-1685			
SAND (%)						DAILY TOTAL	\$	8,756.00
TEMPERATURE (°C)	49.9					ACCUMULATED	7122.50	\$ 68,447.50

DOWNHOLE MOTORS					REMARKS
RUN	MAKE	SER. NO.	CIRC. HOURS	TOTAL HOURS	AFE #
MWD CONFIGURATION					
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS	
3,4	E047	24	155	MODE 1230	
3,4	P947	24	155	45 5/12 IMP	
3,4	B3187	24	155	NEW	
	E213			STANDBY	TARGET TVD @ TIME @
	P227			STANDBY	TARGET TVD @ TIME @
	B3186		1.5	STANDBY	TARGET TVD @ TIME @

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD WARREN COX	

JOB NUMBER 3197	DATE FEBRUARY 23 1999	COMPANY SUNCOR ENERGY LTD	WELL NAME SUNCOR NETLA
COMPANY REPRESENTATIVE LEE BRAZEL - PAT MILLER		RIG NAME AKITA 58	LOCATION K77-60-50-122-30

DRILLING RECORD				TIME RECORD			COST ESTIMATE		
BIT NO.	3	4	FROM	TO	ACTIVITY	LIST SUPPLIER (IF NOT ANADRILL)		COST	
SIZE	222	222	00:00	0245	Drill 1685-1697m	SUPERVISION	1 @ 725	\$ 725.00	
TYPE	F-10-TP	F-10-TP	0245	0300	Rlg Service	MOTOR HRS	0		
JETS	3/15.9	3/15.9	03:00	0715	Drill 1697-1716m	MOTOR DAILY	23 @ 30	\$ 690.00	
DEPTH IN	1577	1682	0715	0800	surveys	MOTOR STBY	0		
DEPTH OUT	1682					JARS	0		
HOURS	20.75	40.25				UBHO SUB	0		
PP ON	9500	9700				MONEL	0		
PP OFF	8000	8200				DAY RATE		\$ 6,400.00	
FLOW	1.2	1.2	08:00	1245	Drill 1716-1739m	STABILIZERS	0		
RPM	30/90	30/90	1245	1300	Rlg Service	TB REAMER			
STRING WT	68000	73000	1300	1430	Drill 1739-1751	TRAVEL DAY			
P/U WT			1430	1600	Accum. Surveys	MWD SYSTEMS			
S/O WT						MWD OPERATORS	2 @ 575	\$ 1,150.00	
WOB	16	16-20				COMPUTER & WELL PLAN			
MUD REPORT						SUBSISTENCE (Note If Comp Job)			
PUMP TYPE	EMSCO F-1000					CAMP			
LINER/STROKE (mm)	152/254		16:00	2145	Drill 1751-1778m				
CU. M/STROKE			2145	2230	Work Pipe	MEILEAGE	0 0.75		
MUD TYPE	POTASSIUM SULFATE		2230	2300	Drill 1778-1788	KILOMETERS TODAY			
MUD WEIGHT (g/cc)	1195		2300	2400	Accum. Surveys	KM ACCUMULATED	2800		
VISCOSITY (sec)						VEHICLES			
WATER LOSS (mm)	7.2					TGH-007			
Ph	10.5								
SAND (%)						DAILY TOTAL	\$	8,965.00	
TEMPERATURE (°C)	50.9					ACCUMULATED	\$ 8012250	\$ 1212.50	

DOWNHOLE MOTORS					REMARKS	
RUN	MAKE	SER. NO.	CIRC. HOURS	TOTAL HOURS	AFE #	
MWD CONFIGURATION						
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS		
4	E047	24	179	MODE 1230		
4	P947	24	179	45 5/12 IMP		
4	B3187	24	179	NEW		
	E213			STANDBY	TARGET TVD @ TIME	@
	P227			STANDBY	TARGET TVD @ TIME	@
	B3186		1.5	STANDBY	TARGET TVD @ TIME	@

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NO.	3		FROM	TO	ACTIVITY	LIST SUPPLIER (IF NOT ANADRILL)	COST	
SIZE	222		00.00	0315	DRILL F/ 1782-1797	SUPERVISION 1 @ 725	\$	725.00
TYPE	F 10 TP		0315	0345	WORK TIGHT HOLE	MOTOR HRS @	\$	-
JETS	3/15.9		0345	0400	RIG SERVICE	MOTOR DAILY 23 @ 30	\$	697.50
DEPTH IN	1577		0400	0715	DRILL F/ 1797-1813	MOTOR STBY @	\$	-
DEPTH OUT			0715	0800	ACCUMULATED SURVEYS	JARS @	\$	-
HOURS	60.75					UBHO SUB @	\$	-
PP ON	11000					MONEL @		
PP OFF	9500					MIN EQUIP CHARGE	\$	6,400.00
FLOW	1.2		0800	1315	DRILL F/ 1813-1834	WELL PLAN @		
RPM	30/90		1315	1330	RIG SERVICE	TB REAMER		
STRING WT	75000		1330	1500	DRILL F/ 1834-1846			
P/U WT			1500	1600	ACCUMULATED SURVEYS	MWD SYSTEMS		
S/O WT						GAMMA RAY		
WOB	18-22					MWD OPERATORS 1 @ 2 575	\$	1,150.00
MUD REPORT						SUBSISTENCE (Note if Comp Job)		
PUMP TYPE	EMSCO F-1000					3 @ 75		
LINER/STROKE (mm)	152/254		1600	23:15	DRILL F/ 1846-1873m			
CU. M./STROKE			23:15	24:00	ACCUMULATED SURVEYS	2 TRUCKS @ .75 / km.		
MUD TYPE	POTASSIUM SULFATE					KILOMETERS TODAY		
MUD WEIGHT (g/cc)	1210					KM ACCUMULATED		
VISCOSITY (sec)						VEHICLES		
WATER LOSS (mm)	7							
Ph	10							
SAND (%)						DAILY TOTAL	\$ 8965	8,975.00
TEMPERATURE (°C)						ACCUMULATED	89154.50 \$	86,365.00

DOWNHOLE MOTORS					REMARKS	
RUN	MAKE	SER. NO.	CIRC. HOURS	TOTAL HOURS	AFE #	
MWD CONFIGURATION						
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS		
4	E047	24	203	MODE 1230		
4	P947	24	203	45 5/12 IMP		
4	B3187	24	203	NEW		
	E213			STANDBY	TARGET TVD @ TIME	@
	P227			STANDBY	TARGET TVD @ TIME	@
	B3186		1.5	STANDBY	TARGET TVD @ TIME	@

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 25 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
COMPANY REPRESENTATIVE	RIG NAME	LOCATION	
LEE BRAZEL - PAT MILLER	AKITA 58	K77-60-50-122-30	

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NO.			FROM	TO	ACTIVITY	LIST SUPPLIER (IF NOT ANADRILL)		COST
SIZE	3		0000	0415	DRILL 1872-1892	SUPERVISION 1 @ 725	\$	725.00
TYPE	222		0415	0430	RIG SERVICE	MOTOR HRS @	\$	-
JETS	F-10-TP		0430	0715	DRILL 1892-1907	MOTOR DAILY 23.5 @ 30	\$	705.00
DEPTH IN	3/15.9		0715	0800	ACCUM SURVEYS	MOTOR STBY @	\$	-
DEPTH OUT	1577					JARS @	\$	-
HOURS	81.5					UBHO SUB @	\$	-
PP ON	11000					MONEL @		
PP OFF	9500					EQUIP CHARGE	\$	6,400.00
FLOW	1.2		0800	1500	DRILL 1907-1948	WELL PLAN @		
RPM	30/90		1500	1600	ACCUM SURVEYS	TB REAMER		
STRING WT	80000					TRAVEL DAY		
P/U WT						MWD SYSTEMS		
S/O WT						GAMMA RAY		
WOB	16-22					MWD OPERATORS 1 @ 2 575	\$	1,150.00
MUD REPORT						SUBSISTENCE (Note if Comp Job)		
PUMP TYPE	EMSCO F-1000					3 AT 75		
LINER/STROKE (mm)	152/254	16.00	1615	1830	DRILL 1948-1949	2 TRUCKS @ @ .75 / km.		
CU. M./STROKE	0.0151	1615	1830	2300	RIG SERVICE	KILOMETERS TODAY		
MUD TYPE	POTASIEUM SULFATE	1630	2300	2345	DRILL 1949-1990	KM ACCUMULATED		
MUD WEIGHT (g/cc)	1205	2300	2345	2400	ACCUM SURVEYS	VEHICLES		
VISCOSITY (sec)		2345	2400		CIRC SAMPLE			
WATER LOSS (mm)	7.5							
Ph	10							
SAND (%)						DAILY TOTAL	\$	8,980.00
TEMPERATURE (°C)	59.5					ACCUMULATED	98137.50 \$	95,365.00

DOWNHOLE MOTORS					REMARKS
RUN	MAKE	SIZE	CIRC. HOURS	TOTAL HOURS	AFE #
MWD CONFIGURATION					
RUN	COMP.	HRS TDY	HRS TTL	COMMENTS	
4	E047	24	227	MODE 1230	
4	P947	24	227	45 5/12 IMP	
4	B3187	24	227	NEW	
	E213			STANDBY	TARGET TVD @ TIME @
	P227			STANDBY	TARGET TVD @ TIME @
	B3186		1.5	STANDBY	TARGET TVD @ TIME @

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 26 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
COMPANY REPRESENTATIVE		RIG NAME	LOCATION
LESS BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD		COST ESTIMATE		
BIT NO.			FROM	TO	ACTIVITY	ST SUPPLIER (IF NOT ANADRIL)	COST
SIZE			0000		FINISH DRILLING THE WELL	SUPERVISIC 1 @ 725	\$ 725.00
TYPE					CIRCULATE AND CONDITION	MOTOR HRS 16.00 @ 30	\$ 480.00
JETS					MUD WIPER TRIP 36 STANDS	MOTOR DAILY @	\$ -
DEPTH IN					CIRCULATE AND CONDITION	MOTOR STBY @	\$ -
DEPTH OUT					MUD TRIP TO LAYDOWN TOOL	JARS @	\$ -
HOURS					AND RUN LOGS	UBHO SUB @	\$ -
PP ON						MONEL @	
PP OFF						EQUIP CHARGE	\$ 6,400.00
FLOW			0800			WELL PLAN @	
RPM						TB REAMER	
STRING WT						TRAVEL DAY <i>Inspection</i>	<i>200.00</i>
P/U WT						MWD SYSTEMS	
S/O WT						GAMMA RAY	
WOB						MWD OPERATORS @ 575	\$ 1,150.00
MUD REPORT						SUBSISTENCE (Note if Comp Job)	
PUMP TYPE						3 @ 75	
LINER/STROKE (mm)			1600				
CU. M./STROKE						1 Trucks X @ .75 / km.	
MUD TYPE						KILOMETERS TODAY	
MUD WEIGHT (g/cc)						KM ACCUMULATED	
VISCOSITY (sec)						VEHICLES	
WATER LOSS (mm)							
Pb							
SAND (%)						DAILY TOTAL	\$ <i>9056.00</i> 2,755.00
TEMPERATURE (°C)						ACCUMULATED	<i>107192.00</i> \$ 104,120.00

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PERSONNEL		SIGNATURE
DD MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

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JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 27 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
LEE BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE			
BIT NO.			FROM	TO	ACTIVITY	LIST SUPPLIER (IF NOT ANADRILL)			COST
SIZE			11.00		TRAVEL FROM SUNCOR WELL	SUPERVISION	1	@ 725	\$ 725.00
TYPE					K77-60-50-122-30 TO CALGARY	MOTOR HRS			\$ -
JETS						MOTOR DAILY	@		\$ -
DEPTH IN						XP MOTOR USE	@		\$ -
DEPTH OUT						JARS	@		\$ -
HOURS						UBHO SUB	@		\$ -
PP ON						MONEL	@		\$ -
PP OFF						DAY RATE	Equip charge		1100.00
FLOW			17.45			STABILIZERS	@		\$ -
RPM						TB REAMER			
STRING WT						2 MWD OPER.	2	@ 575	\$ 1,150.00
PAU WT						MWD SYSTEMS			
S/O WT						GAMMA RAY			
WOB						tool freight billed direct by client			
MUD REPORT						SUBSISTENCE (Note if Camp Job)			
PUMP TYPE	EMSCO F-1000					3X75			225.00
LINE/STROKE (mm)	152/254		23.45						
CL. ML/STROKE						MILEAGE	2700	@ 0.75	\$ 2,025.00
MUD TYPE						KILOMETERS TODAY			
MUD WEIGHT (g/cc)						KM ACCUMULATED			
VISCOSITY (sec)						VEHICLES			
WATER LOSS (mm)									
Ph									
SAND (%)						DAILY TOTAL		\$ 5725.00	3,880.00
TEMPERATURE (°C)						ACCUMULATED		\$ 108,020.00	

112417.50 ~~208~~ 20.00

[illegible]

PERSONNEL		SIGNATURE 
DD, MAURICE DESCHAMPS	MWD. BRAD ERICK	
DD.	MWD. WARREN COX	

Daily Drilling Report

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JOB NUMBER	DATE	COMPANY	WELL NAME
40003197	FEBRUARY 28 1999	SUNCOR ENERGY INC.	SUNCOR NETLA
LEE BRAZEL - PAT MILLER		AKITA 58	K77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE		
BIT NO.			FROM	TO		LIST SUPPLIER (IF NOT ANADRILL)		COST
SIZE			00:00			SUPERVISION	1 @ 725	\$ 725.00
TYPE						MOTOR HRS		\$ -
JETS						XP. MOTOR HRS	@	\$ -
DEPTH IN						MOTOR STBY	@	\$ -
DEPTH OUT						JARS	@	\$ -
HOURS						UBHO SUB	@	\$ -
PP ON						MONEL	@	\$ -
PP OFF						DAY RATE		
FLOW			0800			STABILIZERS	@	\$ -
RPM			1475			TB REAMER		
STRING WT			1500			2 MWD OPER.	2 @ 575	\$ 1,150.00
PIU WT						MWD SYSTEMS	Equipment	1100.00
S/O WT						GAMMA RAY		
WOB						transport of tools to		4054.56
MUD REPORT						SUBSISTENCE (Note if Comp Job)	location	
PUMP TYPE	EMSCO F-1000					3@75		225.00
LINE/STROKE (mm)	152/254	1600						
CUL ML/STROKE		2200				MILEAGE	@	\$
MUD TYPE		2225				KILOMETERS TODAY		
MUD WEIGHT (g/cc)						KM ACCUMULATED		
VISCOSITY (sec)						VEHICLES		
WATER LOSS (mm)								
Ph								
SAND (%)						DAILY TOTAL	\$ 7254.56	1,875.00
TEMPERATURE (°C)						ACCUMULATED	119672.00	109,895.00

[illegible]

PERSONNEL		SIGNATURE
DD. MAURICE DESCHAMPS	MWD. BRAD ERICKS	
DD	MWD. WARREN COX	

10% off of \$110,832.50 $\hookrightarrow$
= (11,083.25)

JOB NUMBER 40003197	DATE Mar. 7, 8, 9	COMPANY Suncor	WELL NAME Nc + La
COMPANY REPRESENTATIVE Lee Brazel		RIG NAME Akita 58	LOCATION K-77-60-50-122-30

DRILLING RECORD			TIME RECORD			COST ESTIMATE	
BIT NO.			FROM	TO	ACTIVITY	LIST SUPPLIER (IF NOT ANADRILL)	COST
SIZE			00:00		Mur 7 th 13.75 hrs	SUPERVISION @	
TYPE					8 th 20.25 hrs	MOTOR HRS 50.75 @ 175.44	8881.25
JETS					9 th 16.75 hrs	MOTOR DAILY @	
DEPTH IN					50.75	MOTOR STBY @	
DEPTH OUT						JAR	
HOURS						UBHO SUB	
PP ON					4 3/4 Reg Motor	MONEL @	
PP OFF							
FLOW			08:00		Mtr. Price Reduced	STABILIZERS @	
RPM					from \$250/hr.	TB REAMER	
STRING WT							
PAU WT						MWD SYSTEMS	
S/O WT						GAMMA RAY	
WOB						Thread Inspection (M4)	300.00
MUD REPORT						SUBSISTENCE (Note if Camp Job)	
PUMP TYPE			16:00				
LINER/STROKE (mm)							
CU. M./STROKE						MILEAGE @	
MUD TYPE						KILOMETERS TODAY	
MUD WEIGHT (g/cc)						KM ACCUMULATED	
VISCOSITY (sec)						VEHICLES	
WATER LOSS (mm)							
Ph							
SAND (%) / SOLID (%)						DAILY TOTAL	\$ 9181.25
TEMPERATURE (°C)						ACCUMULATED	\$

BHA #			BHA #			DOWNHOLE MOTORS					
ITEM	SERIAL NO.	LENGTH	ITEM	SERIAL NO.	LENGTH	RUN	MAKE	SERIAL NO.	DRILLING HOURS	TOTAL DRILLING & CIRC HOURS	FAILURE Y/N
						MWD CONFIGURATION					
						RUN	COMPONENT	HRS TDY	HRS TTL	COMMENTS (IMPELLER)	FAILURE Y/N
DD:			MWD:								
DD:			MWD:								

REMARKS / FAILURE DESCRIPTION:

AOC-1/87

TARGET TVD @ TIME	TARGET TVD @ TIME	TARGET TVD @ TIME	SIGNATURE
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