

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 24

1. Date 13/01/2000 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 2,099.00 (m) Operation Rig Released. Progress (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

3.	Mud Type	Wt.	Vis.	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
4.	SULPHAMIC ACID 10 SX										
5.	Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.

6. Assembly: 311.00 Tri-Cone Bit, 205.00 Positive Displacement Motor, 220.00 Shock Sub - String, 1 220.00 Drill Collar, 308.00 Integral Blade Stabilizer, 2 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 161.00 Drill Collar, 162.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe

7. Surveys:

8.	S.P.M.	Size	Stroke	Pressure	Annular Velocities						
			216.0		D.P.	m/min	D.C.			m/min	
			357.0		R.S.P.P	kPa	@			SPM	

9. B.O.P. Check 11/01/2000 Last Drill 08/01/2000 Incident Last Rig Insp. 12/01/2000

Personnel: Total 34 Rig 15 Service 17 Suncor 2 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	0	Reaming	0	Coring	0
Tripping	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.D.C.	0
Circulate	0	Survey	0	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	24	Others	0

11. Cost: Day \$ 94,313 Cumulative \$ 1,894,784 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:00	24.00	1	b	PP	Finish rigging out equipment. Cut and cap casing 1m below ground, install sign, all as per NEB regulations. Modify and fabricate flow line to better accomodate the two shale shakers. Clean & de-ice rig, matting etc. Rig Released @ 24:00 hrs 2000-01-13th ** NOTE:** Rig costs and all other standby costs will be either charged to this well (Netla P-16), or the next well depending on what happens to the rig. The estimated day cost for the rig & misc. rental equipment while on standby is +- \$ 20k/\$24k, The cost for crews to fly back & forth will be +- \$15k. Due to the high activity in the oilfield the cost for standby are nearly the same rate as they are to actively drill.

13. Foreman in Charge Pat Miller @ 403-284-9583

Weather V. Cold Windy -40, -34

Printed: 17/01/2000 8:09:20 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 23

1. Date 12/01/2000 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 2,098.00 (m) Operation Nipple down BOP's Clean tanks and rig out Progress (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	WT	Vis	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2SO4 Visplex	1,220.0	67	10.2	11.00	15.00	20.50	13.7	17.0 / 18.0	3.0	

Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.

6. Assembly: 311.00 Tri-Cone Bit, 205.00 Positive Displacement Motor, 220.00 Shock Sub - String, 1 220.00 Drill Collar, 308.00 Integral Blade Stabilizer, 2 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 161.00 Drill Collar, 162.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities
		215.0		D.P. 45.8 m/min D.C. 76.3 m/min
		357.0		R.S.P.P. kPa @ SPM

9. B.O.P. Check 11/01/2000 Last Drill 08/01/2000 Incident Last Rig Insp. 12/01/2000

Personnel: Total 36 Rig 15 Service 19 Suncor 2 Other 0

10. Time Breakdowns - Hours

Drilling	Directional	Rig Service	Reaming	Coring
0	0	0	0	0
Tripping	Cond. Mud	Rig Repairs	Run Casing	W.O.C.
0	0	0	0	0
Circulate	Survey	BOP Drill	D.S.T.	Fishing
0	0	0	0	0
Logging	Slip & Cut	Cementing	Rig up/down	Others
0	0	15.5	8.5	0

11. Cost: Day \$ 176,521 Cumulative \$ 1,800,472 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	15:30	15.50	17	a	PU	Run and feel abandonment plugs as follows: Plug #1 2099m to 2039m, cemented with 4t (3m3) of 0:1:0 + 0.3%D13 + 0.5%D65, Plug down @ 23:45 hrs 2000-01-11, plug not felt. Plug #2 1950m to 1900m, cemented with 3.4t (2.5m3) of 0:1:0 + 0.3%D13 + 0.5%D65. Plug down @ 00:45 2000-01-12, plug top felt with wireline @ 1910M topped up to 1891m with 1m3 of Cement still in drill pipe. Plug #3 1000m to 950m, Cemented with 3.4t (2.5m3) of 0:1:0 + 0.5%D65. Plug down @ 08:48 hrs 2000-01-12 Cement top @ 955m. Plug # 4 572m to 512m, Cemented with 5.4t (4m3) of 0:1:0 + 0.5% D65. Plg down @ 12:28hrs 2000-01-12. Cement top @ 478m. Lay down the remaining drill pipe and rig out cementing & logging equipment.
15:30	00:00	8.50	1	b	PP	Nipple down BOP's. dump and clean mud tanks, rigging out equipment to move. * Tim Krysak obtained approval to cut and cap casing according to the NEB guidelines, from Mr. Andy Graw with the NEB in Calgary

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 22

1. Date 11/01/2000 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 2,099.00 (m) Operation Running Abandonment plugs Progress (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	WL	Vis	W.L.	pH	PV	YP	Solids	Gels	Fill: Cake	Polymbr
K2SO4 Visplex	1,220.0	67	10.2	11.00	15.00	20.50	13.7	17.0 / 18.0	3.0	

4. MUD ENGINEER 1

Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
Assembly: 311.00 Tri-Cone Bit, 205.00 Positive Displacement Motor, 220.00 Shock Sub - String, 1 220.00 Drill Collar, 308.00 Integral Blade Stabilizer, 2 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 181.00 Drill Collar, 162.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe										

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities	
		216.0		D.P.	45.8 m/min D.C. 76.3 m/min
		357.0		R.S.P.P	kPa @ SPM

9. B.O.P. Check 11/01/2000 Last Drill 08/01/2000 Incident Last Rig Insp. 11/01/2000

Personnel: Total 36 Rig 15 Service 19 Suncor 2 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	0	Reaming	0	Coring	0
Tripping	7.25	Cond. Mud	13	Rig Repairs	0	Run Casing	0	W.O.C	0
Circulate	0	Survey	0	BOP Drill	0	D.S.T	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	1.5	Rig up/down	0	Others	2.25

11. Cost: Day \$ 87,223 Cumulative \$ 1,623,951 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	01:45	1.75	11	a	PP	Finish Logging with Schlumberger as per program
01:45	04:00	2.25	6	f	PU	Run in BHA and lay down same.
04:00	09:00	5.00	6	f	PU	Run in open ended, pickup Drill pipe to replace BHA to run abandonment plugs.
09:00	22:00	13.00	5	h	PU	Circulate and wait on cementers etc. for abandonment plugs. Tim Krysak got approval for the abandonment program from Mr. Andy Graw of the NEB in Calgary, Cementers and wireline had already been dispatched to location.
22:00	22:30	0.50	28		PU	Safety and procedure meeting with all personel.
22:30	00:00	1.50	17	a	PU	Rig in cementers and run plugs Plug #1 2099m to 2039m cemented with 4t 0:1:0 "G" . Plug down @ 23:45 hrs 2000 -01-11th, Start to lay down pipe for plug #2.

13. Foreman In Charge Pat Miller @ 403-284-9583Weather Lt. Snow, -32, -24

Printed: 12/01/2000 9:57:36 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 21

1. Date 10/01/2000 Well Name Suncor Netla P18-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 2,099.00 (m) Operation Log well with Schlumberger as per program Progress (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	Wt.	Vis.	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2504 Viaplex	1,220.0	57	10.2	11.00	15.00	20.50	13.7	17.0 / 18.0	3.0	
MUD ENGINEER 1										
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
3	222.000	GT-18	R25YD	12.7 12.7 14.3	2,099.00				/	1 B I

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Bit Sub, 181.00 Pump Out Sub, 4 161.00 Drill Collar, 170.00 Drilling Jar, 11 161.00 Drill Collar, 159.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities	
		216.0		D.P.	45.8 m/min D.C. 76.3 m/min
		357.0		R.S.P.P	kPa @ SPM

9. B.O.P. Check 10/01/2000 Last Drill 08/01/2000 Incident Last Rig Insp. 10/01/2000

Personnel: Total 37 Rig 15 Service 20 Suncor 2 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	0	Reaming	0	Coiling	0
Tripping	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	0	Survey	0	BOP Drill	0	O.S.T.	0	Fishing	0
Logging	6	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	18

11. Cost: Day \$ 27,797 Cumulative \$ 1,536,727 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	01:45	1.75	5	d	PU	Circulate and condition Wellbore, Wait on logging Unit.
01:45	06:00	4.25	6	c	PP	Trip out to log. Chain out and flow check as required.
06:00	00:00	18.00	11	a	PP	Rig in Schlumberger and log well as per program and Geology requests. Loggers TD @ 2098.8 Surface csg. @ 542. Run #1: Platform Express (AIT-TDL-LDT-CNT) Run #2: DSI-MLT-GPIT * Bottom Hole Temp Run #1 = 74 degC

13. Foreman in Charge Pat Miller @ 403-284-9583

Weather Clear V. Cold -32, -29

Printed: 12/01/2000 9:57:22 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 20

1. Date 09/01/2000 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 2,099.00 (m) Operation Circulate Condition hole to log. Progress 36.00 (m)

Ground Elevation 802.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 807.00 (m)

Mud Type	Wt.	Vis.	W/L	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2S04 Visplex	1,220.0	67	10.4	10.50	15.00	20.50	13.7	17.0 / 18.0	3.0	
CAUSTIC 3 SX	VISPLEX 10 SX		MUD ENGINEER 2							
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
3	222.000	GT-18	R25YD	12.7 12.7 14.3	2,099.00	41.00	15.25	2.69	15,000 / 75	1 E I

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Bit Sub, 181.00 Pump Out Sub, 4 161.00 Drill Collar, 170.00 Drilling Jar, 11 161.00 Drill Collar, 169.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities
115	152.0	216.0	10.100	D.P. 45.8 m/min D.C. 76.3 m/min
		357.0	R.S.P.P.	4,000 kPa @ 65 SPM

8. B.O.P. Check 09/01/2000 Last Drill 08/01/2000 Incident Last Rig Insp. 09/01/2000
Personnel: Total 34 Rig 15 Service 17 Suncor 2 Other 0

10. Time Breakdowns - Hours

Drilling	13.25	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Tripping	2	Cond. Mud	1.25	Rig Repairs	0	Run Casing	0	W.Q.C.	0
Circulate	0	Survey	0	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	6.75	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	0

11. Cost: Day \$ 4,055 Cumulative \$ 1,508,930 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:45	0.75	7		PP	Rig services, functioned Annular, Pipe Rams & Remote choke. Daily walk around and rig check.
00:45	14:00	13.25	2	a	PP	Drill ahead 222mm hole from 2063m to 2099m TD Average ROP = 2.8m/hr. Drlg Parameters: WOB 15k DaN, RPM 70/75, Pump @ 1.3m3/min w/ 10100 KPa pressure, Torque @ 2300/2500 Nm, Hole drag 2/4k DaN up & Down.
14:00	15:15	1.25	5	a	PP	Circulate up bottom sample and ready rig to trip.
15:15	17:15	2.00	6	h	PP	Wiper trip, condition well for logging
17:15	00:00	6.75	5	d	PU	Circulate, work string, condition wellbore for logging, Circulate and wait on Loggers from Grande Prairie

13. Foreman in Charge Pat Miller @ 403-284-9583

Weather Clear Cold -30, -22

Printed: 12/01/2000 9:57:07 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 19

1. Date 08/01/2000 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 2,083.00 (m) Operation Drilling ahead 222mm hole Progress 35.00 (m)

Ground Elevation 802.50 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	WT	Vis	W.L	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2S04 Visplex	1,215.0	61	9.2	11.00	15.00	18.50	13.4	16.0 / 16.0	3.0	
GEL UNTREATED 12 SX MUD ENGINEER 2										
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
3	222.000	GT-18	R25YD	17.5 17.5 17.5	2,099.00	5.00	2.00	2.50	14,000 / 70	1 E I
2	222.000	GHP51X	LU8223	17.5 17.5 17.5	2,058.00	158.00	55.50	2.85	/ 80	5 E I

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Bit Sub, 181.00 Pump Out Sub, 4 181.00 Drill Collar, 170.00 Drilling Jar, 11 161.00 Drill Collar, 158.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe

7. Surveys: 2,040.00/1.250/0.000

S.P.M.	Size	Stroke	Pressure	Annular Velocities		
115	152.0	216.0	9,400	D.P.	45.8	m/min D.C. 76.3 m/min
		357.0		R.S.P.P	4,000	kPa @ 65 SPM

9. B.O.P. Check 08/01/2000 Last Drill 08/01/2000 Incident Last Rig Insp. 08/01/2000

Personnel: Total 32 Rig 15 Service 15 Suncor 2 Other 0

10. Time Breakdowns - Hours

Drilling	11.75	Directional	0	Rig Service	.5	Reaming	0	Coring	0
Tripping	9.5	Cond. Mud	1.25	Rig Repairs	0	Run Casing	0	W.O.C	0
Circulate	0	Survey	1	BOP Drill	0	D.S.T	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	0

11. Cost: Day \$ 37,510 Cumulative \$ 1,504,875 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:30	0.50	7		PP	Rig services, function Annular, Pipe Rams & Remote choke, Daily walk around and rig check.
00:30	10:15	9.75	2	a	PP	Drill ahead 222mm hole from 2028m to 2058m. ROP = 3m/hr. Drilling Parameters: WOB 15k DaN RPM 75/80, Pump Pressure 8900 KPa @ 1.36m3/min, Torque @ 2100/2300 Nm, Hole drag @ 2/4K DaN both up & down. Hole appears good on connections
10:15	11:15	1.00	10	a	PP	Circulate and survey @ 2040M 1.25 degrees.
11:15	12:30	1.25	5	a	PP	Circulate bottoms up and ready rig to trip.
12:30	22:00	9.50	6	a	PP	Trip for bit, Hole good on trip out and in, No fill on bottom. Blind rams function w/ out of hole.
22:00	00:00	2.00	2	a	PP	Drill ahead 222mm hole from 2058m to 2063m @ 24:00 hrs. ROP = 2.7m/hr. Drllg. Parameters, WOB 12/14k DaN, RPM 65/70, Pump @ 1.3m3/min with 9400 KPa Hole drag @ 2/4k DaN up & down.

13. Foreman in Charge Pat Miller @ 403-284-9583

Weather Clear Cold -30, -22

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 18

1. Date 07/01/2000 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 2,028.00 (m) Operation Drilling ahead 222mm hole Progress 62.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

3.	Mud Type	Wt.	V/s	W.L.	pH	PV	YP	Solids	Gels	Fill Cake	Polymer		
	K2SO4 Visplex	1,220.0	128	7.4	11.00	17.00	24.00	14.0	19.0 / 19.0	3.0			
4.	CAUSTIC 3 SX		FLOPLEX 14 SX		POTASSIUM SULF. 30 SX		MUD ENGINEER 2						
5.	Bit No.	Size (mm)	Type	Serial No.	Jets			Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	2	222.000	EHP51X	LU8223	17.5	17.5	17.5	2,058.00	128.00	45.75	2.80	/ 80	5 E I

6. Assembly: 1 222.00 Tri-Cone Bit, 1 171.00 Bit Sub, 1 161.00 Pump Out Sub, 2 161.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 8 159.00 Drill Collar, 1 170.00 Drilling Jar, 5 159.00 Drill Collar, 1 159.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities			
120	152.0	216.0	8,900	D.P.	45.8	m/min	D.C.
		357.0		R.S.P.P		kPa	@

9. B.O.P. Check 07/01/2000 Last Drill 05/01/2000 Incident Last Rig Insp. 07/01/2000

Personnel: Total 33 Rig 15 Service 16 Suncor 2 Other 0

10. Time Breakdowns - Hours

Drilling	22.5	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Tripping	0	Cond. Mud	0	Rig Repairs	.5	Run Casing	0	W.O.C	0
Circulate	0	Survey	0	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	.25

11. Cost: Day \$ 30,218 Cumulative \$ 1,467,365 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:45	0.75	7		PP	Rig services, Functioned Annular, Pipe rams and remote choke. Daily walk around and rig check.
00:45	01:00	0.25	28		PU	Clean suction screen in pump.
01:00	01:30	0.50	8	c	NU	Repair air control to clutches on floor motors.
01:30	00:00	22.50	2	a	PP	Drill ahead 222mm hole from 1984m to 2028m @ 24:00 hrs. ROP = 2.78m/hr. Drilling Parameters: WOB 15k DaN RPM 75/80, Pump Pressure 8900 KPa @ 1.36m3/min, Torque @ 2100/2300 Nm, Hole drag @ 2/4K DaN both up & down. Hole appears good on connections

13. Foreman In Charge Pat Miller 403-284-9583

Weather Clear Cool -25, -22

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 17

1. Date 06/01/2000 Well Name Suncor Net's P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 1,966.00 (m) Operation Drilling 222mm. hole looking for core pt. Progress 86.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

3.	Mud Type	Wt.	Vis.	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
	K2S04 Visplex	1,230.0	72	9.6	11.00	13.00	22.50	14.4	19.0 / 19.0	3.0	
4.	CAUSTIC 3 SX	CALCIUM CARB. 33 SX			FLOPLEX 8 SX			VISPLEX 10 SX		MUD ENGINEER 2	
5.	Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	2	222.000	ENP51X	LU8223	17.5 17.5 17.5	2,058.00	66.00	23.25	2.84	15,000 / 80	5 E I

6. Assembly: 1 222.00 Tri-Cone Bit, 1 171.00 Bit Sub, 1 161.00 Pump Out Sub, 2 161.00 Drill Collar, 1 216.00 Intergral Blade Stabilizer, 8 159.00 Drill Collar, 1 170.00 Drilling Jar, 5 159.00 Drill Collar, 1 159.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe

7. Surveys: 1,929.00/2,000/0,000

8.	S.P.M.	Size	Stroke	Pressure	Annular Velocities					
	117	152.0	216.0	8,420	D.P.	45.8	m/min	D.C.	76.3	m/min
			357.0		R.S.P.P	3,900	kPa	@	65	SPM

9. B.O.P. Check 06/01/2000 Last Drill 05/01/2000 Incident Last Rig Insp. 06/01/2000

Personnel: Total 34 Rig 15 Service 16 Suncor 3 Other 6

10. Time Breakdowns - Hours

Drilling	22.5	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Tripping	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	0	Survey	.75	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	0

11. Cost: Day \$ 36,719 Cumulative \$ 1,437,148 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	22:30	22.50	2	a	PP	Accumulated drilling, 222mm. hole F/1900m. -1966m. (Average ROP=3.0m/hr.)
22:30	23:15	0.75	7		PP	Rig service, function test annular preventor, O/C - 14 sec. Moter kills, remote choke.
23:15	00:00	0.75	10	a	PP	Circulate and survey at 1929m. was 2 degrees.

13. Foreman in Charge P. Erb/P. Miller @403-284-9583

Weather -22/-24

Printed: 12/01/2000 9:58:16 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 16

1. Date 05/01/2000 Well Name Suncor Netla P16-60-50-122-46 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 1,900.00 (m) Operation Drilling 222mm. hole at 1924m/mkb. @ 4.5m./hr. Progress 66.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

3.	Mud Type	Wt.	Vis.	W.L.	pH	PV	YP	Solids	Gels	Fill. Cake	Polymer		
	K2SO4 Visplex	1,235.0	72	11.6	10.00	13.00	23.00	14.4	19.0 / 20.0	3.0			
4.	CAUSTIC 1 SX	SAWDUST 4 SX		FLOPLEX 4 SX			VISPLEX 2 SX			POTASSIUM SULF. 16 SX			
	MUD ENGINEER 2												
5.	Bit No.	Size (mm)	Type	Serial No.	Jets			Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	2	222.000	EHP51X	LU8223	7.9	7.9	7.9	2,058.00	3.00	0.75	4.00	12,000 / 80	5 E I
	1	222.000	DS110	H46882	7.9	7.9	7.9	1,900.00	1,358.00	138.25	9.82	4,000 / 175	6 D I

6. Assembly: 1 122.00 Tri-Cone Bit, 1 171.00 Bit Sub, 1 181.00 Pump Out Sub, 2 181.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 8 159.00 Drill Collar, 1 170.00 Drilling Jar, 5 159.00 Drill Collar, 1 159.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities			
117	152.0	216.0	8,280	D.P.	45.8	m/min	D.C.
		357.0		R.S.P.P	3,700	kPa	@
							65 SPM

9. B.O.P. Check 05/01/2000 Last Drill 05/01/2000 Incident Last Rig Insp. 05/01/2000
Personnel: Total 31 Rig 15 Service 13 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	6.25	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Tripping	14	Cond. Mud	1	Rig Repairs	0	Run Casing	0	W.O.C	0
Circulate	0	Survey	0	BOP Drill	0	D.S.T	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	2

11. Cost: Day \$ 83,799 Cumulative \$ 1,400,428 AFE \$ 2,196,622 AFE # A9911480F16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:15	0.25	7		PP	Rig service, function test annular preventor, O/C - 14 sec.
00:15	05:45	5.50	2	a	PP	Accumulated drilling, 222mm. hole/1834m-1900m. (Average ROP=12.0m/hr.)
05:45	06:45	1.00	5	a	PP	Circulate bottoms up.
06:45	15:45	9.00	6	j	PP	Trip out to change BHA & wiper trip, strap out. Diff= 0.4m. flow check @ 1900m. 1740m. 904m. 390m. 249m. and when out of the hole. Lay down tools, Trip mud=Calculated 7.18m3 Actual = 9.51m3
15:45	16:00	0.25	7		PP	Rig service, function test Blind rams O/C = 4sec.
16:00	18:00	2.00	6	j	PP	Make up BHA and trip in the hole, to the casing shoe.
18:00	19:00	1.00				Slip and cut drilling line.
19:00	19:15	0.25	7		PP	rig service, Function test top pipe rams O/C= 4 seconds.
19:15	19:30	0.25	28		PP	Held BOP drillll and safety meeting. well secure in 74 seconds.
19:30	22:30	3.00	6	j	PP	Trip in the hole, brake circulation.
22:30	22:45	0.25	28		PP	Pre-job safety meeting on drilling into the

13. Foreman in Charge Paul Erb 403-284-9583

Weather -19/-24

Printed: 12/01/2000 9:55:50 AM

**SUNCOR INC. RESOURCES GROUP
DAILY DRILLING REPORT**

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
22:30	22:45	0.25	28		PP	Slave Point formation.
22:45	23:15	0.50	5		PP	Circulate out mud ring.
23:15	00:00	0.75	2	a	PP	Drill 222mm. hole F/1900m.- 1903 (Average ROP=4.0m/hr.)

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 15

1. Date 04/01/2000 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 1,834.00 (m) Operation Circulating and condition mud @ 1900m. Prior to wiper/BHA trip. Progress 184.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

3.	Mud Type	Wt.	Vis.	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer	
	K2504 Visplex	1,225.0	75	12.0	10.00	19.00	24.00	14.1	20.0 / 21.0	3.0		
4.	CAUSTIC 3 SX	LIGNITE 2 SX			FLOPLEX 82 SX			VISPLEX 6 SX		POTASSIUM SULF. 148 SX		
	MUD ENGINEER 2											
5	Bit No.	Size (mm)	Type	Serial No.	Jets		Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	1	222.000	DS110	H46882	7.9 7.9 7.9			1,292.00	132.75	9.73	4,000 / 175	

6. Assembly: 1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 161.00 Float Sub, 1 161.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 5 159.00 Drill Collar, 1 170.00 Drilling Jar, 8 159.00 Drill Collar, 1 159.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe

7. Surveys: 1,694.00/1.500/0.000 1,743.00/2.000/0.000 1,819.00/1.500/0.000

8. S.P.M.	Size	Stroke	Pressure	Annular Velocities
120	152.0	216.0	12,800	D.P. 45.8 m/min D.C. 76.3 m/min
		357.0		R.S.P.P. 6,200 KPa @ 65 SPM

9. B.O.P. Check 03/01/2000 Last Drill 04/01/2000 Incident Last Rig Insp. 04/01/2000

Personnel: Total 28 Rig 15 Service 12 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	19.5	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Ripping	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	0	Survey	2.5	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	1.25

11. Cost: Day \$ 56,283 Cumulative \$ 1,333,472 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	19:30	19.50	2	a	PP	Accumulated drilling, 222mm. holeF/1670m.-1834m (Average ROP=8.4m/hr.)
19:30	20:15	0.75	7		PP	Accumulated rig services, function test annular preventor. O/C-14 seconds. Top pipe rams O/C= 4 seconds. Bottom pipe rams O/C= 4 seconds.
20:15	22:45	2.50	10	a	PP	Accumulated Deviation surveys @ 649m.-1.50 degrees and Broke survey line, 1743m.=2.00 , 1619m. = 1.50 degrees.
22:45	23:00	0.25	28			BOP drill and safety meeting with new crew well secure in 62 seconds.
23:00	23:45	0.75	28		NU	Payson locked up twice and had to be re-booted twice.
23:45	00:00	0.25	28		PU	Clean pump suction as they were plugged with floplex.

13. Foreman in Charge Paul Erb @ 403-284-9583

Weather -19/-28

Printed: 06/01/2000 8:47:02 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 14

1. Date 03/01/2000 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 1,670.00 (m) Operation Control drilling at 1668m, at 13.7m/hr. Progress 202.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 807.00 (m)

3. Mud Type K2SO4 Visplex WT 1,225.0 Vis 75 W/L 14.2 pH 10.00 PV 15.00 YP 27.50 Solids 13.9 Gels 21.0 / 22.0 Filtr Cake 3.0 Polymer

4. GEL UNTREATED 24 SX CAUSTIC 4 SX SAWDUST 4 SX FLOPLEX 9 SX VISPLEX 3 SX
POTASSIUM SULF. 98 SX

5. Bit No. 1 Size (mm) 222.000 Type DS110 Serial No. H46882 Jets 7.9 7.9 7.9 Out (m) 1,128.00 Drilled (m) 113.25 Hours 9.96 ROP (m/Hr) 4,000 / 175 Force/RPM Cond.

6. Assembly: 1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 161.00 Float Sub, 1 161.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 5 159.00 Drill Collar, 1 170.00 Drilling Jar, 9 159.00 Drill Collar, 1 159.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe

7. Surveys: 1,509.00/2,000/0.000 1,578.00/0.000/0.000 1,684.00/2,000/0.000

8. S.P.M. 120 Size 152.0 Stroke 216.0 Pressure 12,800 Annular Velocities D.P. 45.8 m/min D.C. 76.3 m/min
R.S.P.P. 6,000 kPa @ 65 SPM

9. B.O.P. Check 03/01/2000 Last Drill 03/01/2000 Incident Last Rig Insp. 02/01/2000
Personnel: Total 28 Rig 15 Service 12 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	18.5	Directional	0	Rig Service	.75	Reaming	0	Coning	0
Circulating	1.5	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.D.C.	0
Circulate	.75	Survey	2.25	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	.25

11. Cost: Day \$ 70,949 Cumulative \$ 1,277,189 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	18:30	18.50	2	a	PP	Accumulated drilling, 222mm. hole/1468- 1670m. (Average ROP=10.92m/hr.)
18:30	19:15	0.75	5	i	PP	Circulate and condition mud, prior to wiper trip.
19:15	20:45	1.50	6	h	PP	Wiper trip from 1562m.-1262m. Hole in good shape.
20:45	21:30	0.75	7		PP	Accumulated rig services, function test annular preventor. O/C-14 seconds.
21:30	23:45	2.25	10	a	PP	Accumulated Deviation surveys @ 1509m.-2.00/1578m.-miss run/1584m.- 2.0 degrees.
23:45	00:00	0.25	28		PP	Safety meeting, held BOP drill with crew well secure in 70 seconds.

13. Foreman In Charge Paul Erb @ 403-264-9583

Weather -15/-25

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 13

1. Date 02/01/2000 Well Name Suncor Nella P18-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 1,468.00 (m) Operation Control drill 222mm hole @ 1542m. --- ROP of 20m/hr. Progress 371.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 807.00 (m)

Mud Type	WT	Vis	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2SO4 Vlsplex	1,210.0	87	12.2	10.00	16.00	27.50	13.1	20.0 / 20.0	3.0	
CAUSTIC 3 SX	FLOPLEX 24 SX		POTASSIUM SULF. 112 SX		MUD ENGINEER 2					
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
1	222.000	CS110	H46882	7.9 7.9 7.9		926.00	94.75	9.77	6,000 / 175	

6. Assembly: 1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 161.00 Float Sub, 1 161.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 5 159.00 Drill Collar, 1 170.00 Drilling Jar, 8 159.00 Drill Collar, 1 159.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe

7. Surveys: 1,302.00/2.000/0.000 1,388.00/0.000/0.000 1,405.00/1.000/0.000

S.P.M.	Size	Stroke	Pressure	Annular Velocities	
120	152.0	216.0	12,800	D.P.	45.8 m/min D.C. 76.3 m/min
		357.0		R.S.P.P	4,800 kPa @ 65 SPM

9. B.O.P. Check 02/01/2000 Last Drill 02/01/2000 Incident Last Rig Insp. 02/01/2000

Personnel: Total 26 Rig 15 Service 10 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	21.75	Directional	0	Rig Service	1	Reaming	0	Coring	0
Mudding	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C.	0
Log	0	Survey	1.25	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	0

11. Cost Day \$ 53,625 Cumulative \$ 1,206,340 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	07:15	7.25	2	a	PP	Drill 222mm. hole/1299m.-1360m. (Average ROP=9.4m/hr.)
07:15	07:45	0.50	10	a	PP	Deviation survey @ 1302m. 2.0 degrees.
07:45	08:00	0.25	7		PP	Rig service, function test annular preventor. O/C-14 seconds.
08:00	15:30	7.50	2	a	PP	Drill 222mm. hole/1360m.-1393m. (Average ROP=4.4m/hr.)
15:30	15:45	0.25	10	a	NP	Deviation survey @ 1368m. Missrun.
15:45	16:15	0.50	7		PP	Rig service function test bottom pipe rams. O/C 4 seconds.
16:15	23:15	7.00	2	a	PP	Drill 222mm. hole/1393m.-1468 (Average ROP=10.71m/hr.)
23:15	23:45	0.50	10	a	PP	Deviation survey @ 1405m. 1.0 degrees.
23:45	00:00	0.25	7		PP	Rig service function test top pipe rams. O/C 4 seconds.

13. Foreman in Charge Paul Ezb @ 403-284-9593

Weather -16/-26

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 12

1. Date 01/01/2000 Well Name Suncor Netla P16-80-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 1,299.00 (m) Operation Control Drill ahead 222mm hole at 1341m, ROP=14min /mtr. Progress 207.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

3.	Mud Type	Wt.	Vis	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer	
	K2504 Visplex	1,180.0	63	12.5	9.00	13.00	21.00	11.3	17.0 / 17.5	3.0		
4.	GEL UNTREATED 12 SX	CAUSTIC 3 SX			SAWDUST 5 SX		CALCIUM CARB. 58 SX			FLOPLEX 35 SX		
	VISPLEX 7 SX	POTASSIUM SULF. 30 SX			MUD ENGINEER 2							
5.	Bit No.	Size (mm)	Type	Serial No.	Jats		Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	1	222.000	DS110	H46882	7.9 7.9 7.9			757.00	73.00	10.37	6,000 / 175	

6. Assembly: 1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 181.00 Float Sub, 1 181.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 5 159.00 Drill Collar, 1 170.00 Drilling Jar, 9 159.00 Drill Collar, 1 159.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe

7. Surveys: 1,095.00/1.750/0.000 1,188.00/2.000/0.000 1,236.00/1.750/0.000

8. S.P.M.	Size	Stroke	Pressure	Annular Velocities	
120	152.0	216.0	10,800	D.P.	44.8 m/min DC.
		357.0		R.S.P.P	3,800 kPa @ 65 SPM

9. B.O.P. Check 27/12/1999 Last Drill 30/12/1999 Incident Last Rig Insp. 01/01/2000

Personnel: Total 25 Rig 15 Service 9 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	19.75	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Mudding	1.25	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	0	Survey	1.5	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	.75

11. Cost: Day \$ 39,604 Cumulative \$ 1,152,716 AFE \$ 2,196,622 AFE # A9911480F16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:45	0.75	28		NP	WOO, monitor hole, check out all computer systems, OK
00:45	02:00	1.25	6	j	PU	Trip in the hole to 1092m. no fill or tight hole.
02:00	07:15	5.25	2	a	PP	Drill 222mm. hole/1092m.-1153m. (AverageROP=11.6m/hr.)
07:15	07:45	0.50	10	a	PP	Deviation survey @ 1095m. 1.75 degrees.
07:45	08:00	0.25	7		PP	Rig service, function test annular preventor. O/C-14 seconds.
08:00	15:15	7.25	2	a	PP	Drill 222mm. hole/1153m.-1230m. (AverageROP=14.0m/hr.)
15:15	15:45	0.50	10	a	PP	Deviation survey @ 1189m. 2.00 degrees.
15:45	16:00	0.25	7		PP	Rig service function test bottom pipe rams. O/C 4 seconds.
16:00	23:15	7.25	2	a	PP	Drill 222mm. hole/1230m.-1299m. (AverageROP=9.5m/hr.)
23:15	23:45	0.50	10	a	PP	Deviation survey @ 1236m. 1.75 degrees.
23:45	00:00	0.25	7		PP	Rig service function test top pipe rams. O/C 4 seconds.

13. Foreman in Charge Paul Erb @ 403-284-9583

Weather -16/-23

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 11

1. Date 31/12/1999 Well Name Suncor Neila P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 1,092.00 (m) Operation Drilling 222mm. hole @ 1132m MKB. ROP of 18m/hr. Progress (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

3.	Mud Type	Wt	Vis	W/L	pH	PV	YP	Solids	Gels	Fill Cake	Polymer	
	K2504 Visplex	1,140.0	57	12.5	10.00	12.00	19.50	8.7	19.0 / 19.0	3.0		
4.	GEL UNTREATED 16 SX	CAUSTIC 2 SX		FLOPLEX 33 SX			VISPLEX 6 SX		POTASSIUM SULF. 80 SX			
	MUD ENGINEER 2											
5.	Bit No.	Size (mm)	Type	Serial No.	Jets		Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	1	222.000	DS110	H46882	7.9	7.9 7.9		550.00	53.25	10.33	5,000 / 160	

6. Assembly: 1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 161.00 Float Sub, 1 161.00 Drill Collar, 1 218.00 Integral Blade Stabilizer, 5 159.00 Drill Collar, 1 170.00 Drilling Jar, 9 159.00 Drill Collar, 1 159.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe

7. Surveys: 983.00/1.250/0.000

S.P.M.	Size	Stroke	Pressure	Annular Velocities	
120	152.0	216.0	10,800	D.P.	45.8 m/min D.C. 74.3 m/min
		357.0		R.S.P.P	3,500 kPa @ 65 SPM

9. B.O.P. Check 27/12/1999 Last Drill 30/12/1999 Incident Last Rig Insp. 31/12/1999

Personnel: Total 26 Rig 15 Service 10 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	13.75	Directional	0	Rig Service	.75	Reaming	0	Coning	0
Tripping	5	Cond. Mud	.25	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	.5	Survey	.5	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	3.25

11. Cost: Day \$ €1,525 Cumulative \$ 1,113,112 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:45	0.75	6	h	PP	Trip in the hole to 998m. No fill or tight hole.
00:45	01:00	0.25	5	a	PP	Break circulation and fill pipe.
01:00	01:15	0.25	7		FP	Rig service, function annular O/C 14 seconds.
01:15	02:45	1.50	2	a	PP	Drill 222mm. hole F/998-1008m. (Average ROP=6.6m/hr.)
02:45	03:15	0.50	10	a	PP	Deviation survey @ 983m. 1.25 degrees.
03:15	08:00	4.75	2	a	PP	Drill 222mm. hole /1008m.-1031m. (Average ROP=4.8m/hr.)
08:00	08:30	0.50	28		PU	Clean pump suction & bleed mud pump.
08:30	09:30	1.00	2	a	PP	Drill 222mm. hole /1031m.-1034m. (Average ROP=3.0m/hr.)
09:30	09:45	0.25	7		PP	Rig service, function top pipe rams, O/C 4 seconds.
09:45	16:15	6.50	2	a	PP	Drill 222mm. hole F/1034m.-1092m. (Average ROP=8.9m/hr.)
16:15	16:45	0.50	5	i	PP	Circulate bottoms up.
16:45	19:15	2.50	6	j	PP	Trip out of the hole for Y2K. with required flow checks. Trip mud ther=5.01m3 act=5.38m3
19:15	19:30	0.25	6	j	PP	Check and clean bit, mud motor, rig floor.
19:30	19:45	0.25	7		PP	Rig service, function top blind rams, O/C 4 seconds.

13. Foreman in Charge Paul Erb @ 403-284-9563

Weather -16/-28

Printed: 04/01/2000 3:22:12 PM

**SUNCOR INC. RESOURCES GROUP
DAILY DRILLING REPORT**

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
19:45	21:15	1.50	6	a	PP	Trip in the hole to 542m.
21:15	00:00	2.75	28		NP	WOO for Y2K. Monitor hole.

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 10

1.	Date	30/12/1999	Well Name	Suncor Netia P16-60-50-122-45		Contractor / Rig	AKITA DRILLING LTD. / 37	
2.	Depth	988.00 (m)	Operation	Drilling 222mm hole at 1022meters.		Progress	64.00 (m)	
	Ground Elevation	802.30 (m)	KB to GL	4.70 (m)	KB to CF	4.70 (m)	KB Elev.	807.00 (m)

Mud Type	Wt.	Vis.	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2S04 Viesplex	1,150.0	68	10.0	10.00	12.00	23.00	10.0	18.0 / 10.0	3.0	

4.	CAUSTIC 2 SX	POTASSIUM SULF. 40 SX	MUD ENGINEER 2			
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Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
1	222.000	DS110	H46882	7.9 7.9 7.9		456.00	39.50	11.54	5,000 / 140	

6. Assembly: 1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 161.00 Float Sub, 1 161.00 Drill Collar, 1 216.00 Intergral Blade Stabilizer, 5 159.00 Drill Collar, 1 170.00 Drilling Jar, 9 159.00 Drill Collar, 1 159.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe

7. Surveys: 964.00/0.750/0.000

S.P.M.	Size	Stroke	Pressure	Annular Velocities
120	152.0	216.0	10,800	D.P. 45.8 m/min D.C. 74.3 m/min
		357.0		R.S.P.P. 3,800 kPa @ 65 SPM

9. B.O.P. Check 27/12/1999 Last Drill 30/12/1999 Incident Last Rig Insp. 30/12/1999

Personnel:	Total	25	Rig	15	Service	9	Suncor	1	Other	0
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10. Time Breakdowns - Hours

Drilling	7.5	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Mudding	8.5	Cond. Mud	0	Rig Repairs	4.25	Run Casing	0	W.O.C.	0
Circulate	0	Survey	.5	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	C	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	2.5

11. Cost Day \$ 37,180 Cumulative \$ 1,051,587 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:45	0.75	2	a	NU	Drill 222mm. hole to 934m. attempt to un-ball bit, pump flowplex pill, apply WOB very slowly, could not un-ball bit.
00:45	03:30	2.75	6	a	PU	Trip out of the hole to un-ball bit. with required flow checks. Hole fill, Ther=4.75m.3 Actual=4.68
03:30	04:45	1.25	6	a	PU	Clean floor, change nozzles on the PDC bit.
04:45	05:00	0.25	7		PP	Rig service, function test blind rams. O/C-4 seconds.
05:00	08:00	3.00	6	a	PP	Trip in the hole to drill 222mm hole.
08:00	09:00	1.00	8	a	NU	Change head in mud pump.
09:00	11:30	2.50	28		PU	Circulate cut mud ring, clean, remove and install flowline.
11:30	15:30	4.00	2	a	PP	Drill 222mm hole from 934m. to 977m. Average ROP = 10.75m/hr.)
15:30	15:45	0.25	7		PP	Rig service function annular, O/C = 12 seconds.
15:45	16:45	1.00	8	a	NU	Repair rig, work on mud pump 4" shock hose.
16:45	18:15	1.50	2	a	PU	Drill 222mm hole from 977m.- 989m. Average ROP = 8.0m/hr.)
18:15	18:45	0.50	10	a	NU	Deviation survey at 964m. misrun.
18:45	20:00	1.25	2	a	PP	Drill 222mm hole from 989m-996m.. Average ROP = 7.2 m/hr.)
20:00	20:15	0.25	7		PP	Rig service function bottom pipe rams, O/C = 4

13. Foreman in Charge Paul Erb @ 403-284-9583 Weather Warm -13/-20
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**SUNCOR INC. RESOURCES GROUP
DAILY DRILLING REPORT**

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
20:00	20:15	0.25	7		PP	seconds.
20:15	20:45	0.50	8	a	PU	Repair rig fix hose on kelly circulating sock.
20:45	22:15	1.50	6	h	PU	Wiper trip up to 536m. to recover pipe screen.
22:15	00:00	1.75	8	b	PU	Install new kelly spinner.

13. Foreman in Charge

Paul Erb @ 403-284-9583

Weather Warm -13/-20

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 9

1. Date 29/12/1999 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 934.00 (m) Operation Tripping in the hole after nozzle change on the bit Progress 134.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

3.	Mud Type	Wt	Vis.	W/L	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
	K2S04 Visplex	1,155.0		10.0	8.00	13.00	26.00	6.0	20.0 / 21.5	3.0	
4.	LIGNITE 1 SX	FLOPLEX 21 SX	POTASSIUM SULF. 100 SX	MUD ENGINEER 1							
5.	Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	1	222.000	DS110	H46882	7.9 7.9 7.9		392.00	32.75	11.97	6,000 / 150	

6. Assembly: 1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 161.00 Float Sub, 1 161.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 5 159.00 Drill Collar, 1 170.00 Drilling Jar, 9 159.00 Drill Collar, 1 159.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe

7. Surveys: 810.00/1.500/0.000 870.00/1.000/0.000

8.	S.P.M.	Size	Stroke	Pressure	Annular Velocities						
	116	152.0	216.0	8,680	D.P.	0.0	m/min	D.C.	0.1	m/min	
			357.0		R.S.P.P.	3,600	kPa	@	65	SPM	

9. B.O.P. Check 27/12/1999 Last Drill 27/12/1999 Incident Last Rig Insp. 29/12/1999

Personnel: Total 25 Rig 14 Service 10 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	14.75	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Tripping	2.25	Cond. Mud	0	Rig Repairs	.5	Run Casing	0	W.O.C.	0
Circulate	.25	Survey	1.5	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	.75	Cementing	0	Rig up/down	0	Others	3.25

11. Cost Day \$ 44,279 Cumulative \$ 1,014,407 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:30	0.50	28		PU	Wash and clean bit, un-ball.
00:30	02:00	1.50	6	a	PP	Trip in the hole with BHA, and one single of drill pipe.
02:00	02:45	0.75	9		PP	Slip and cut 16m. of drill line.
02:45	03:30	0.75	6	a	PP	Trip in the hole to 795m.
03:30	03:45	0.25	5	j	PU	Condition and circulate mud, break circulation.
03:45	04:30	0.75	28		PP	Mud ring plugged flowline, clean and work mudring.
04:30	05:30	1.00	2	a	PP	Drill 222mm. hole from 800-810m.
05:30	05:45	0.25	7		PP	Rig service, function test Annular closed 14 sec.
05:45	06:30	0.75	2	a	PP	Drill 222mm. hole F/810-820m.
06:30	07:00	0.50	10	a	PP	Survey at 795m. Miss-run the mud is too thick and the barrel will not run in the pipe fast enough.
07:00	09:00	2.00	2	a	PP	Drill F/ 820-835m.
09:00	09:45	0.75	28		PU	Unball the bit.
09:45	11:30	1.75	2	a	PP	Drill 222mm. hole F / 835m-844m.
11:30	12:00	0.50	10	a	PP	Deviation survey @ 810m. (1.5')
12:00	15:15	3.25	2	a	PP	Drill 222mm. F/ 844-876m.
15:15	15:30	0.25	7		PP	Rig service, function test annular.
15:30	16:00	0.50	8	b	PP	Repair rig, tear out kelly spinner.

13. Foreman In Charge Paul Erb @ 403-284-9582

Weather Warm -13/-20

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**SUNCOR INC. RESOURCES GROUP
DAILY DRILLING REPORT**

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
16:00	18:15	2.25	2	a	PP	Drill 222mm hole F/ 876-895m.
18:15	18:45	0.50	10	a	PP	Deviation survey at 870m. (1')
18:45	19:30	0.75	2	a	PP	Drill 222mm hole F/ 895-904m.
19:30	19:45	0.25	7		PU	Rig service, function top pipe rams. close-4 sec.
19:45	22:45	3.00	2	a	PP	Drill 222mm hole F/ 904m-934m.
22:45	00:00	1.25	28		NU	Attempt to un-ball the bit, unable to.

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 8

1.	Date	28/12/1999	Well Name	Suncor Netja P16-60-50-122-45			Contractor / Rig	AKITA DRILLING LTD. / 37												
2.	Depth	800.00 (m)	Operation	Drilling 222mm. hole @ 814m/mkb. (20m/hr.)			Progress	258.00 (m)												
	Ground Elevation	602.30 (m)	KB to GL	4.70 (m)	KB to CF	4.70 (m)	KB Elev.	807.00 (m)												
3.	Mud Type	K2S04 Visplex	WT.	1,150.0	Vis.	10.4	pH	9.50	PV	14.00	YP	36.50	Solids	10.0	Gels	27.0 / 29.0	Filt. Cskc	4.0	Polymer	
4.	CAUSTIC 2 SX	SODA ASH 1 SX		FLOPLEX 23 SX		MUD ENGINEER 16														
5.	Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.									
	1	222.000	DS110	H46882	7.9 7.9 7.9		258.00	18.00	14.33	6,000 / 140										
6.	Assembly:	1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 161.00 Float Sub, 1 161.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 5 169.00 Drill Collar, 1 170.00 Drilling Jar, 9 159.00 Drill Collar, 1 158.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe																		
7.	Surveys:	592.00/0.250/0.000 691.00/0.750/0.000																		
8.	S.P.M.	Size	Stroke	Pressure	Annular Velocities															
	130	152.0	216.0	6,200	D.P.	50.1	m/min	D.C.	8.1	m/min										
			357.0		R.S.P.P		kPa	@		SPM										
9.	B.O.P. Check	27/12/1999	Last Drill	27/12/1999	Incident	Last Rig Insp.		28/12/1999												
	Personnel:	Total	26	Rig	14	Service	11	Suncor	1	Other	0									
10.	Time Breakdowns - Hours																			
	Drilling	17	Directional	0	Rig Service	.5	Reaming	0	Coring	0										
	Mudding	2.75	Cond. Mud	.5	Rig Repairs	0	Run Casing	0	W.Q.C	0										
	Circulate	0	Survey	.5	BOP Drill	0	D.S.T.	0	Fishing	0										
	Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	2.75										
11.	Cost: Day \$	40,021	Cumulative \$	970,128	AFE \$	2,196,622	AFE #	A9911480P16												
12.	Operation Summary																			
	FROM	TO	HOURS	CODE	SUB	G	OPERATIONS													
	00:00	01:30	1.50	28		PP	Drillout float collar and the float shoe.													
	01:30	02:00	0.50	2	a	PP	Control drill 222mm. hole F/ 542-550m. (Avg. ROP=16m/hr.)													
	02:00	02:30	0.50	28		PP	Conduct a leakoff test, the test was shut down after the pressure gradient of 22.0 kpa/m. was reached. The formation was not fractured.													
	02:30	03:00	0.50	5	b	PP	Displace the hole from the cement drillout water to k2S04/ visplex mud.													
	03:00	07:00	4.00	2	a		Control drill 222mm hole F/550-603m. (Average ROP=13.25m/hr.)													
	07:00	07:15	0.25	7		PP	Rig service.													
	07:15	08:00	0.75	2	a	PP	Control drill 222mm hole F/603-613m. (Average ROP=25.3 m/hr.)													
	08:00	08:15	0.25	28		PP	Held a BOP drill with crew and had a safety meeting. well secure in 67seconds. Function annular													
	08:15	08:30	0.25			RU	Rig repair, change out head on 8-F-80 triplex mud pump.													
	08:30	08:45	0.25	7		PP	Rig service.													
	08:45	09:45	1.00	2	a	PP	Drill 222mm hole F/613-622m. (Average ROP= 9.0 m/hr.)													
	09:45	10:00	0.25	10	a	PP	Deviation survey @ 597.0m. (.25 degree)													
	10:00	16:30	6.50	2	a	PP	Drill 222mm hole F/622-716m. (Average													

13. Foreman in Charge Paul Erb @ 403-284-9583

Weather Warm -10.7. -1

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
10:00	16:30	6.50	2	a	PP	ROP=14.46m/hr)
16:30	16:45	0.25	10	a	PP	Deviation survey @ 691.0m. (.75 degree)
16:45	21:00	4.25	2	a	PP	Drill 222mm hole F/716-800m. (Average ROP=18.66m/hr)
21:00	21:15	0.25	28		PP	Conduct BOP drill and safety meeting with crew.
21:15	00:00	2.75	6	a	PU	Trip out of the hole for suspected balled up bit.

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 7

1. Date 27/12/1999 Well Name Suncor Netla P16-60-60-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 542.00 (m) Operation Drilling ahead at 593m (15m/hr) Progress (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	Wt	Vis	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2504 Visplex	1,000.0	28		11.50						
SAWDUST 15 SX	SODA ASH 1 SX	POTASSIUM SULF. 156 SX								
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
1	222.000	DS110	K46882	7.9 7.9 7.9					/	

6. Assembly: 1 222.00 Polycrystalline Diamond Bit, 1 171.00 Positive Displacement Motor, 1 161.00 Float Sub, 1 161.00 Drill Collar, 1 216.00 Integral Blade Stabilizer, 5 159.00 Drill Collar, 1 170.00 Drilling Jar, 9 159.00 Drill Collar, 1 159.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe, 1 102.00 Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities
130	152.0	216.C	6,200	D.P. 49.1 m/min D.C. 79.6 m/min
		357.C		R.S.P.P kPa @ SPM

8. B.O.P. Check 27/12/1999 Last Drill 27/12/1999 Incident 27/12/1999 Last Rig Insp. 27/12/1999

Personnel: Total 26 Rig 14 Service 11 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	.25	Reaming	0	Coring	0
Tripping	2.25	Cond. Mud	.25	Rig Repairs	2.5	Run Casing	0	W.O.C.	0
Circulate	0	Survey	0	BOP Drill	14.25	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	4.5

11. Cost: Day \$ 44,578 Cumulative \$ 930,107 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	08:00	8.00	14	b	PP	Nipple up BOP's.
08:00	12:30	4.50	15	a	PP	Pressure blind rams, hcr, inside kill & choke valves, manifold choke lines, manifold lines, manifold. All test were 1500 kpa low and 13000 kpa high.
12:30	12:45	0.25	7		PP	Rig Service.
12:45	13:15	0.50	6	j	PU	Pick up 222mm BHA.
13:15	14:00	0.75	8	e	NU	Rig Repair to the hydraulic pump on drawworks.
14:00	15:45	1.75	6	j	PP	Pick up 222mm BHA. and trip in the hole to 500m.
15:45	16:00	0.25	5	b	PP	Break circulation prior to pressure testing.
16:00	16:30	0.50	15	a	PP	Pressure test, bottom pipe rams, lower kelly cock outside choke, kill line, valves. All test were 10 minutes, 1500 kpa low and 13000 kpa high.
16:30	16:45	2.25	28		NU	The pressure testing truck's engine broke down, after trying to fix it another truck was ordered.
18:45	20:00	1.25	15	a	PP	Pressure test, with rig pump, upper pipe rams, bottom outside killline check valve, top outside killline valve, outside choke line valve, and the stand pipe, kelly hose, annular, and all valves. All test were 10 minutes 1500 kpa low and 13000 kpa high.

13. Foreman in Charge Paul Ebb @ 403-284-9583

Weather Warm +10.7, +6

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**SUNCOR INC. RESOURCES GROUP
DAILY DRILLING REPORT**

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
20:00	21:45	1.75	8	d	NU	Repair work on accumulator.
21:45	22:00	0.25	28			BOP drill, and safety meeting with rig crew prior to drilling out.
22:00	00:00	2.00	28			Drillout float collar, tagged at 527m.

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 8

1. Date 26/12/1999 Well Name Suncor Netla P16-80-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 542.00 (m) Operation Nippling up the BOP's. Progress (m)

Ground Elevation 802.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 807.00 (m)

3.	Mud Type	WL	Vis	W.L	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
	K2SO4 Visplex	1,135.0	218	12.0	8.50	12.00	35.00	6.0	27.5 / 25.0	3.0	
4.	GEL UNTREATED 8 SX	CELLOPHANE 20 SX		SAWDUST 21 SX			FLOPLEX 37 SX			VISPLEX 8 SX	
	POTASSIUM SULF. 6 SX										
5.	Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.

6. Assembly: 311.00 Tri-Cone Bit, 205.00 Positive Displacement Motor, 220.00 Shock Sub - String, 1 220.00 Drill Collar, 308.00 Integral Blade Stabilizer, 2 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 161.00 Drill Collar, 162.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities		
		216.0		D.P.	m/min	D.C.
		357.0		R.S.P.P	kPa	@
						SPM

9. B.O.P. Check Last Drill Incident Last Rig Insp. 26/12/1999

Personnel: Total 27 Rig 14 Service 12 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	C	Directional	0	Rig Service	0	Reaming	0	Coring	0
Nippling	C	Condi Mud	0	Rig Repairs	0	Run Casing	2.5	W.O.C.	6.75
Circulate	1.75	Survey	0	BOP-Drill	10.75	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	2.25	Rig up/down	0	Others	0

11. Cost Day \$ 27,498 Cumulative \$ 885,529 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	02:30	2.50	12	a	PP	Run 244.5mm. casing a total of 43 joints of J-55, 55.53kg/m. st&c, prudential casing. Total length of 542.70m. set at 542.0m.
02:30	04:15	1.75	5	f	PP	Circulate and condition hole prior to cementing csg. L/D power tongs.
04:15	06:30	2.25	12	c	PP	Rig up the cementers and cement the 244.5mm. casing with : Held a Pre-job safety meeting, pump 5.0m/m3 of water spacer. Pressure test surface lines up to 21MPa. Mix and pump 43.18m3, 45 tonnes of RFC system + 2% CaCl+Celophane. at 1740 kg/m3. Displace with 21.3m3 of fresh water. Returns were 23m3 of returns, bump the plug with 10mpa. for 10 minutes. held ok, bleed off pressure floats held good.
06:30	13:15	6.75	13		PP	WOC.
13:15	14:14	0.98	14	a	PP	Nipple down Diverter.
14:14	17:15	3.02	14	b	PP	Cut conductor, casing and weld on the casing bowl. Pressure test the weld to 7mpa, OK. for 10 minutes.
17:15	00:00	6.75	14	b	PP	Nipple up BOP's.

13. Foreman in Charge Paul Erb 403-264-9583

Weather Warm +10.7, -13

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 5

1. Date 25/12/1999 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 542.00 (m) Operation WOC. Progress (m)

Ground Elevation 802.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	Wt.	Vis.	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2SO4 Visplex	1,130.0	214	9.8	9.50	13.00	35.00	10.0	26.0 / 27.0	3.0	

4. GEL UNTREATED 22 SX CELLOPHANE 20 SX

Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
Assembly: 311.00 Tri-Cone Bit, 1 220.00 Bit Sub, 1 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 161.00 Drill Collar, 182.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe										

6. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities
		216.0		D.P. m/min D.C. m/min
		357.0		R.S.P.P. kPa @ SPM

9. B.O.P. Check Last Drill Incident Last Rig Insp. 22/12/1999
Personnel: Total 27 Rig 14 Service 12 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	.25	Reaming	0	Coring	0
Tripping	12.25	Cond. Mud	0 <td>Rig Repairs</td> <td>0 <td>Run Casing</td> <td>4.5</td> <td>W.O.C</td> <td>0</td> </td>	Rig Repairs	0 <td>Run Casing</td> <td>4.5</td> <td>W.O.C</td> <td>0</td>	Run Casing	4.5	W.O.C	0
Circulate	7 <td>Survey</td> <td>0 <td>BOP Drill</td> <td>0 <td>D.S.T.</td> <td>0 <td>Fishing</td> <td>0</td> </td></td></td>	Survey	0 <td>BOP Drill</td> <td>0 <td>D.S.T.</td> <td>0 <td>Fishing</td> <td>0</td> </td></td>	BOP Drill	0 <td>D.S.T.</td> <td>0 <td>Fishing</td> <td>0</td> </td>	D.S.T.	0 <td>Fishing</td> <td>0</td>	Fishing	0
Logging	0 <td>Slip & Cut</td> <td>0 <td>Cementing</td> <td>0 <td>Rig up/down</td> <td>0 <td>Others</td> <td>0</td> </td></td></td>	Slip & Cut	0 <td>Cementing</td> <td>0 <td>Rig up/down</td> <td>0 <td>Others</td> <td>0</td> </td></td>	Cementing	0 <td>Rig up/down</td> <td>0 <td>Others</td> <td>0</td> </td>	Rig up/down	0 <td>Others</td> <td>0</td>	Others	0

11. Cost: Day \$ 145,302 Cumulative \$ 856,031 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	04:15	4.25	5	f	PP	Condition and circulate, thaw out premix tk. Pump calibrated sweep around, sweep was 60% longer than gauge time in coming around to surface. Seepage losses to the formation have stabilized at 0.4m3/hr.
04:15	07:45	3.50	6	g	PU	Wiper trip up to surface.
07:45	08:00	0.25	7		PP	Rig Service.
08:00	12:30	4.50	6	h	PU	RIH to 447, wash ream from 447-449m. 499-503m. and 503-542.
12:30	14:00	1.50	5	f	PP	Circulate and condition hole.
14:00	15:15	1.25	6	h	PP	Wiper trip up to 320m. the hole was in good shape with no hole drag or fill on bottom.
15:15	16:30	1.25	5	f	PP	Condition and circulate hole.
16:30	19:30	3.00	6	g	PP	Trip out of the hole to run csg.
19:30	00:00	4.50	12	a	PP	Pre-job safety meeting, rig up to and run 255.5mm. csg.

13. Foreman in Charge Paul Ebb 403-284-9583

Weather Warm +9,-15

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 4

1. Date 24/12/1999 Well Name Suncor Netta P18-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37
2. Depth 542.00 (m) Operation Attempt to POOH to run casing, but hole was tight. 30,000 dAN over. Progress 21.00 (m)
- Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)
3. Mud Type K2904 Visplex Wt. 1,175.0 Vis. 120 W.L. 9.6 pH 9.50 PV 14.00 YP 34.50 Solids 8.8 Gels 54.0 / 55.0 Filt. Cake 3.0 Polymer
4. Bit No. 2A Size (mm) 311.000 Type KP43A Serial No. 87706 Jets 17.5 17.5 17.5 Out (m) 542.00 Drilled (m) 21.00 Hours 1.75 ROP (m/Hr) 12.00 Force/RPM 15,000 / 160 Cond.
5. Bit No. 1A Size (mm) 311.000 Type FDSS Serial No. LN8137 Jets 17.5 17.5 17.5 Out (m) 521.00 Drilled (m) 542.00 Hours 40.75 ROP (m/Hr) 13.30 Force/RPM 15,000 / 200 Cond. 5 2 1
6. Assembly: 311.00 Tri-Cons Bit, 1 220.00 Bit Sub, 1 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 161.00 Drill Collar, 162.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe
7. Surveys:
8. S.P.M. 125 Size 152.0 Stroke 216.0 Pressure 2,500 Annular Velocities D.P. m/min D.C. m/min
60 140.0 357.0 2,500 R.S.P.P kPa @ SPM
9. B.O.P. Check Last Drill Incident Last Rig Insp. 22/12/1999
 Personnel: Total 34 Rig 14 Service 18 Suncor 2 Other 0
10. Time Breakdowns - Hours
- | | | | | | | | | | |
|-----------|-------|-------------|-----|-------------|----|-------------|---|---------|------|
| Drilling | 3.5 | Directional | 0 | Rig Service | .5 | Reaming | 0 | Coning | 0 |
| Tripping | 17.75 | Cond. Mud | .25 | Rig Repairs | 0 | Run Casing | 0 | W.D.C. | 0 |
| Circulate | .75 | Survey | 0 | BOP Drill | 0 | D.S.T. | 0 | Fishing | 0 |
| Logging | 0 | Slip & Cut | 0 | Cementing | 0 | Rig up/down | 0 | Others | 1.25 |
11. Cost: Day \$ 27,763 Cumulative \$ 712,729 AFE \$ 2,196,622 AFE # A9911480P16
12. Operation Summary
- | FROM | TO | HOURS | CODE | SUB | C | OPERATIONS |
|-------|-------|-------|------|-----|----|--|
| 00:00 | 01:45 | 1.75 | 2 | a | PP | Drill 311mm hole to 521m. |
| 01:45 | 02:00 | 0.25 | 5 | a | PU | Circulate bottoms up, to trip for bit. |
| 02:00 | 03:45 | 1.75 | 6 | a | PU | Trip for bit, hole became very tight at 307m. |
| 03:45 | 07:45 | 4.00 | 6 | a | PU | Pump out singles from 369-307m. |
| 07:45 | 08:00 | 0.25 | 7 | | PP | Rig service. |
| 08:00 | 10:30 | 2.50 | 6 | a | PU | Pump out singles F/ 300-180cm. plug flowline & Rig out flowline. |
| 10:30 | 11:00 | 0.50 | 6 | a | PU | Trip out stands. |
| 11:00 | 15:45 | 4.75 | 6 | a | PU | Lay down blade stabilizer, 2- 228mm DC's chang bit. |
| 15:45 | 16:30 | 0.75 | 6 | a | PU | Install flowline. |
| 16:30 | 16:45 | 0.25 | 7 | | PP | Rig Service. |
| 16:45 | 19:15 | 2.50 | 6 | a | PU | Trip in the hole and ream bridges. Strap in the hole diff= .28m. |
| 19:15 | 20:30 | 1.25 | 28 | | PU | Break circulation, clean flowline #2 shaker. |
| 20:30 | 21:30 | 1.00 | 6 | a | PU | Trip in the hole to 521m. |
| 21:30 | 23:15 | 1.75 | 2 | a | PP | Drill 311mm. hole F/ 521- 542m. |
| 23:15 | 00:00 | 0.75 | 5 | f | PP | Circulate and condition hole to run casing. |
13. Foreman In Charge Paul Erb @ 403-284-9583 Weather Warm +9,+7
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SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 3

1. Date 23/12/1999 Well Name Suncor Nells P16-80-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 521.00 (m) Operation Wiper trip out of hole, pumping out singles @ 336m work light hole. Progress 226.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	Wt.	Vis.	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2504 Visplex	1,120.0		14.8	9.00	8.00	33.50	10.0	20.0 / 20.0	3.0	
CAUSTIC 5 SX	FLOPLEX 23 SX	POTASSIUM SULF. 106 SX								
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/hr)	Force/RPM	Cond.
1A	311.000	FDSS	LN8137	17.5 17.5 17.5	521.00	521.00	40.75	12.79	15,000 / 200	5 2 3

8. Assembly: 311.00 Tri-Cone Bit, 205.00 Positive Displacement Motor, 220.00 Shock Sub - String, 1 220.00 Drill Collar, 308.00 Integral Blade Stabilizer, 2 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 161.00 Drill Collar, 162.00 Cross Over, 8 102.00 Heavy Weight Drill Pipe

7. Surveys: 312.00/0.750/0.000 329.00/0.250/0.000 388.00/0.500/0.000 406.00/0.500/0.000 434.00/0.250/0.000 460.00/0.250/0.000 489.00/0.500/0.000

S.P.M.	Size	Stroke	Pressure	Annular Velocities
125	152.0	216.0	2,500	D.P. m/min D.C. m/min
60	140.0	357.0	8,600	R.S.P.P. kPa @ SPM

9. B.O.P. Check Last Drill Incident Last Rig Insp. 22/12/1999

Personnel: Total 26 Rig 14 Service 10 Suncor 2 Other 0

10. Time Breakdowns - Hours

Directional	18.5	0	Rig Service	.75	Reaming	0	Coring	0
Cond. Mud	0	0	Rig Repairs	3	Run Casing	0	W.O.C.	0
Survey	0	1.75	BOP Drill	0	D.S.T.	0	Fishing	0
Shp & Cut	0	0	Cementing	0	Rig up/down	0	Others	0

11. Cost Day \$ 47,883 Cumulative \$ 684,966 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	18:30	18.50	2	a	PP	Drill and survey ahead 311mm hole with vector 203mm. motor from 295m to 521m. @ 24:00 hrs. Average ROP = 12.2 m/hr. The hole appears good on connections, with this mud system.
18:30	20:15	1.75	10	a	PP	Accumulated circulation & wireline surveys as required.
20:15	22:00	1.75	8	e	NU	Work on light plant fuel system.
22:00	22:45	0.75	7		PP	Rig Service.
22:45	00:00	1.25	8	a	NU	Change heads on mud pumps. two separate events.

13. Foreman In Charge Paul Erb 403-284-9583

Weather Warm -9, +7

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 2

1. Date 22/12/1999 Well Name Suncor Netta P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 295.00 (m) Operation Drill ahead 311mm hole Progress 255.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	WL	Vis	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2S04 Visplex	1,120.0		14.8	9.00	8.00	33.50	10.0	20.0 / 20.0	3.0	
GEL UNTREATED 30 SX	LIGNITE 1 SX	FLOPLEX 30 SX	VISPLEX 8 SX	POTASSIUM SULF. 63 SX						
Bit No	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
1A	311.000	FDSS	LN8137	17.5 17.5 17.5	521.00	295.00	22.25	13.25	16,000 / 200	5 2 1

6. Assembly: 311.00 Tri-Cone Bit, 205.00 Positive Displacement Motor, 220.00 Shock Sub - String, 1 220.00 Drill Collar, 308.00 Integral Blade Stabilizer, 2 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 161.00 Drill Collar, 162.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe

7. Surveys: 34.00/0.250/0.000 66.00/0.250/0.000 86.00/0.250/0.000 117.00/0.500/0.000 155.00/0.250/0.000 174.00/0.750/0.000 221.00/0.500/0.000 246.00/0.750/0.000 283.00/0.750/0.000

S.P.M.	Size	Stroke	Pressure	Annular Velocities				
125	152.0	216.0	8,600	D.P.	m/min	D.C.		m/min
60	140.0	357.0	8,600	R.S.P.P	kPa	@		SPM

9. B.O.P. Check Last Drill Incident Last Rig Insp. 22/12/1999

Personnel: Total 24 Rig 14 Service 9 Suncor 1 Other 0

Time Breakdowns - Hours

Drilling	18.5	Directional	0	Rig Service	.75	Reaming	0	Coring	0
Tripping	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	0	Survey	2.25	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	2.5

11. Cost Day \$ 94,750 Cumulative \$ 637,083 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:45	0.75	7		PP	Rig services, function Diverter system.
00:45	19:15	18.50	2	a	PP	Drill and survey ahead 311mm hole with Vector 203mm motor from 40m to 295m @ 24:00 hrs. Average ROP = 13.5m/hr. Hole appears good on connection, With this mud system and the small flow line if we drill @ more then 25/30m per hr. the flow lines will load up with shales and plug off.
19:15	21:30	2.25	10	a	PP	Circulate and Wireline surveys as required
21:30	00:00	2.50	28		PU	Unplug flowline and change shaker screens from 110 mesh to 84 mesh

13. Foreman in Charge Pat Miller 403-284-9593

Weather Warm +9,+7

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SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 1

1. Date 21/12/1999 Well Name Suncor Netla P16-60-50-122-45 Contractor / Rig AKITA DRILLING LTD. / 37

2. Depth 40.00 (m) Operation Drill 311mm Surface hole Progress 40.00 (m)

Ground Elevation 602.30 (m) KB to GL 4.70 (m) KB to CF 4.70 (m) KB Elev. 607.00 (m)

Mud Type	Wt	Vis	W.L.	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2S04 Visplex	1,060.0							/		
GEL UNTREATED 35 SX	FLOPLEX 30 SX	VISPLEX 12 SX	POTASSIUM SULF. 143 SX							
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
1A	311.000	FDSS	LN8137	17.5 17.5 17.5	521.00	40.00	3.75	10.67	/ 160	5 2 1

8. Assembly: 311.00 Tri-Cone Bit, 205.00 Positive Displacement Motor, 220.00 Shock Sub - String, 1 220.00 Drill Collar, 308.00 Integral Blade Stabilizer, 2 220.00 Drill Collar, 228.00 Drilling Jar, 213.00 Cross Over, 15 161.00 Drill Collar, 162.00 Cross Over, 9 102.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities				
125	152.0	216.0	2,500	D.P.	m/min	D.C.		m/min
60	140.0	357.0	2,500	R.S.P.P	kPa	@		SPM

9. B.O.P. Check Last Drill Incident Last Rig Insp. 21/12/1999

Personnel: Total 23 Rig 14 Service 2 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	3.75	Directional	0	Rig Service	.25	Reaming	0	Coring	0
Tripping	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	0	Survey	0	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	20	Others	0

11. Cost: Day \$ 47,275 Cumulative \$ 542,333 AFE \$ 2,196,622 AFE # A9911480P16

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	20:00	20.00	1	a	PP	Rig up to Spud, when preparing to pick up BHA it was noticed one of the Bales was missing, A different set was dispatched from Akita 48 drilling in the Liard area. We could still make up our BHA without the bales. When functioning Diverter system the Accumulator failed to pressure up. Worked on accumulator and found the pump had been air locked, Pressured up and functioned system OK. Rigged up ready to spud.
20:00	20:15	0.25	7		PP	Rig service, function Diverter and check Brake Linkage.
20:15	00:00	3.75	2	a	PP	Spud in with 311mm bit at 20:00 hrs 1999-12-21 and drill ahead 311mm hole with 203mm Motor from 0m to 40m @ 24:00 hrs. Average ROP = 10.6m/hr.

13. Foreman In Charge P. Miller 403-264-9583/502-0217

Weather Warm +9, -2

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