

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 34

- | | | | | | | |
|----|------------------|--------------|-----------|--------------------------------|------------------|--------------------------|
| 1. | Date | 99-03-12 | Well Name | Suncor Netla K-77-60-50-122-30 | Contractor / Rig | BONUS WELL SERVICING/235 |
| 2. | Depth | 2,118.00 (m) | Operation | Event Complete. | Progress | (m) |
| | Ground Elevation | 818.40 (m) | KB to GL | 6.80 (m) | KB to CF | 6.45 (m) |
| | | | KB Elev. | | | 625.20 (m) |

3.	Mud Type	Wt	Vis	WLS	pH	FP	SP	Solids	Gels	Fill Cake	Polymer
	STARDRILL	1,050.0	90	6.5	10.50	28.00	24.50	3.1	13.0 / 18.0	1.0	
4.											
5.	Bit No.	Size (mm)	Type	Serial No.	Job	Out (m)	Drilled (m)	Hour	ROP (m/hr)	Force (RPM)	Contd.

6.	SRM	Exp	Depth	Pressure	Airflow Velocity					
			203.0		D.P.	54.2	m/min	D.C.	91.9	m/min
			203.0		R.S.P.P		kPa	⊕		SPM

10. Time Breakdowns - Hours

0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

- | | | | | | | | |
|-----------------|---------|---------------|-----------|--------|-----------|-------|-------------|
| 11. Cost Day \$ | 170,330 | Cumulative \$ | 2,496,611 | AFE \$ | 2,042,430 | AFE # | A9811680K77 |
|-----------------|---------|---------------|-----------|--------|-----------|-------|-------------|

12 Operation Summary

TIME	TIME	HOURS	CORE	SHD	?	OPERATIONS
00:00	03:00	3.00	6	j	PP	POOH w/ 88.9mm J-55 EUE tubing, casing scraper, & bit.
03:00	08:00	5.00	28	c	NP	Waited on Schlumberger's Velocity logging tools / equipment to arrive on location.
08:00	10:00	2.00	11	e	PP	Function test BOP's, Annular 15 seconds shut in, rams 3 seconds. Rig in Schlumberger wireline tools and run in hole to T.D. Load out rental equipment and return to Ft. St. John (HESS) Load out 4 units from Beaver Camp and haul out to Ft. Nelson. Prepare Mud pump, Rental light plant and Mixing tank to be hauled out.
10:00	00:00	14.00	11	e	PP	Off load and spot Thumpers in desired areas and proceed with Velocity log. Conducted the VSP w/ 2 thumpers in 2 locations. POOH & rigged out Schlumberger's VSP & open hole equipment. Original Drilling Event Complete.

13. Foreman in Charge Brzel, Valin, Petroski 220-9479 Weather Overcast, -9oC
Printed: 88-05-15 6:07:33 AM

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 33

1. Date 99-03-11 Well Name Suncor Netla K-77-80-50-122-30 Contractor / Rig BONUS WELL SERVICING/235

2. Depth 2,118.00 (m) Operation POOH w/ casing scraper & bit Progress (m)

Ground Elevation 616.40 (m) KB to GL 6.60 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

Mud Type	Wt	Vib	Wt	PH	IPV	Y.P.	Solids	Calc	Flt Cake	Polymer
STARDRILL	1,050.0	90	6.5	10.50	28.00	24.50	3.1	13.0 / 18.0	1.0	
CAUSTIC 5 SX	SODIUM SULFATE 2 SX									
Bit No	Size (mm)	Type	Serial No	Age	Out (m)	Drill (m)	Hour	ROP (m/h)	Power (RPM)	Cond.

6. Assembly:

7. Surveys:

SPM	SSD	Stroke	Pressure	Drill Velocity
		203.0		D.P. 54.2 m/min D.C. 91.9 m/min
129	114.0	203.0	3,000	R.S.P.P. kPa @ SPM

9. B.O.P. Check 99-03-11 Last Drill 99-03-11 Incident Last Rig Insp. 99-03-11
Personnel: Total 29 Rig 10 Service 15 Suncor 4 Other 0

10. Time Breakdowns - Hours

Drill	0	Drill	0	Drill	.25	Drill	0	Drill	0
Drill	5.75	Drill	0	Drill	0	Drill	0	Drill	0
Drill	0	Drill	0	Drill	0	Drill	0	Drill	0
Drill	2	Drill	.5	Drill	0	Drill	1	Drill	0

11. Cost Day \$ 34,660 Cumulative \$ 2,326,280 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

From	To	Hours	Code	Sub	Operations
00:00	01:00	1.00	11	a	PP POOH w/ MSCT. Recovered 22 core samples.
01:00	01:30	0.50	9		PP Slipped & cut drill line.
01:30	09:00	7.50	28	c	NU Waited on Schlumberger's FMI logging tools to be hot shotted to location.
09:00	15:00	6.00	11	a	PP Log with Schlumberger FMI tools as directed.
15:00	16:00	1.00	1	b	PP Rig out flow nipples and spacer spools, lower rig floor.
16:00	19:00	3.00	6	j	PP Make up casing scraper and 156mm bit and run in hole to clean shoe joint for permanent packer.
19:00	19:15	0.25	7		PP Tour Change. Held a safety / operations meeting w/ night shift personnel. Rig Service. Function tested the pipe rams - 4 seconds to fully close.
19:15	21:30	2.25	6	j	PP Continued to RIH w/ the bit & scraper. Ran 207 joints of tubing & double scraped from 1930 - 1988 mKB.
21:30	23:30	2.00	5	d	PP Displaced the cased hole to fresh water. Starting pump pressure = 5000 kPa @ 0.23 m3/min, end = 5000 kPa @ 0.72 m3/min.
23:30	00:00	0.50	6	j	PP POOH & stood 88.9mm J-55 EUE tubing. Laid down 4 joints, casing scraper, & bit.

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather Clear, -7°C

Printed: 99-03-15 6:07:12 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 32

1. Date 99-03-10 Well Name Suncor Netia K-77-60-60-122-30 Contractor / Rig BONUS WELL SERVICING/235

2. Depth 2,118.00 (m) Operation POOH w/ coring tools, wait on FMI tools. Progress (m)

Ground Elevation 818.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

Mod Type	WT	Vis	W/L	PH	PV	YP	Solids	Gels	Filt Cake	Polymer
STANDARD	1,050.0	90	6.5	10.50	28.00	24.50	3.1	13.0 / 18.0	1.0	
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/hr)	Force/RPM	Cond.
7	155.600	ENP51H	ED1895		2,118.00				/	4 5 I

6. Assembly: 1 155.60 Tri-Cone Bit, 1 123.00 Mud Motor, 1 122.00 Float Sub, 10 122.00 Drill Collar, 1 118.00 Cross Over, 1 88.90 pup joint, 1 88.90 "GX" Profile, 1 88.90 Pup Joint

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities
		203.0		D.P. 54.2 m/min D.C. 91.9 m/min
		114.0		R.S.P.P. kPa @ SPM

9. B.O.P. Check 99-03-08 Last Drill 99-03-06 Incident Last Rig Insp. 99-03-10
Personnel: Total 31 Rig 10 Service 17 Suncor 4 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	0	Reaming	0	Coring	0
Tripping	3.5	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	0	Others	0

11. Cost Day \$ 30,015 Cumulative \$ 2,291,620 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	01:15	1.25	6	j	PP	Continued to POOH w/ 88.9mm J-55 EUE tubing & BHA # 6.
01:15	03:30	2.25	6	j	PP	Pulled & laid down BHA # 6, including drill collars.
03:30	05:30	2.00	11	a	PP	Rigged in Schlumberger's open hole logging unit.
05:30	12:45	7.25	11	a	NU	RIH to conduct a PE - HALS - LDT log. Tested tools @ 2020 mKB - were unable to run tools, Misrun. Repair to tools. PEX- HALS- LDT on bottom at 12:45 hours at 2117 mKB.
12:45	17:45	5.00	11	a	PP	Log "Platform Express" (PEX - AIT), BHC Sonic, LDT, CCL, GR, from TD @ 2117 mKB to the casing shoe @ 1988.0 mKB.
17:45	00:00	6.25	11	d	PP	RIH w/ MSCT tools & cut 22 sidewall cores: 1997.5 mKB, 2003.6 mKB, 2010.5 mKB, 2014.5 mKB, 2016.2 mKB, 2019.5 mKB, 2021.6 mKB, 2032.2 mKB, 2026.2 mKB, 2028.6 mKB, 2030.5 mKB, 2032.0 mKB, 2034.5 mKB, 2036.6 mKB, 2039.0 mKB, 2041.5 mKB, 2043.5 mKB, 2046.7 mKB, 2050.5 mKB, 2054.6 mKB, 2060.5 mKB, 2064.5 mKB.

13. Foreman In Charge Brazel, Valin, Petroski 220-9479

Weather Clear, -10c

Printed: 99-03-11 8:21:04 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 31

1. Date 99-03-09 Well Name Suncor Netla K-77-80-50-122-30 Contractor / Rig BONUS WELL SERVICING/235

2. Depth 2,118.00 (m) Operation Tripping out to log with Schlumberger Progress 29.40 (m)

Ground Elevation 818.40 (m) KB to GL 6.80 (m) KB to CF 8.45 (m) KB Elev. 625.20 (m)

3.	Mod. type	WLS	VA	WLS	PH	PV	YP	Solids	Gels	Sh. Cake	Polymer
	STARDRILL	1,050.0	90	6.5	10.50	28.00	24.50	3.1	13.0 / 18.0	1.0	
4.	CAUSTIC 5 SX	BIOCIDE (BIOTROL 3 PAIL		SAWDUST 30 SX			BENTONITE M141 SX		STARCH 74 KG		
	DUALFLO 37 KG										
5.	BLW	Size (mm)	Type	Serial No.	Lot	On (m)	Drilled (m)	Rate	ROP (m/hr)	Force (RPM)	Cond.
	7	155.600	ENP51H	ED1895			128.60	52.75	2.44	6,000 / 120	

6. Assembly: 1 155.80 Tri-Cone Bit, 1 123.00 Mud Motor, 1 122.00 Float Sub, 10 122.00 Drill Collar, 1 118.00 Cross Over, 1 88.90 pup joint, 1 88.90 "GX" Profile, 1 88.90 Pup Joint

7. Surveys:

SPM	Sen	Spk	Power	Annular Velocity
110	127.0	203.0	5,500	D.P. 54.2 m/min D.C. 91.9 m/min
		114.0		R.S.P.P. kPa @ SPM

9. B.O.P. Check 99-03-08 Last Drill 99-03-06 Incident Last Rig Insp. 99-03-09

Personnel: Total 30 Rig 10 Service 16 Suncor 4 Other 0

10. Time Breakdowns - Hours

16.75	Drilling	0	Drilling	.25	Drilling	0	Drilling	0
5.25	Drilling	0	Drilling	0	Drilling	0	Drilling	0
1.5	Drilling	0	Drilling	0	Drilling	0	Drilling	0
0	Drilling	0	Drilling	0	Drilling	0	Drilling	0

11. Cost Day \$ 42,507 Cumulative \$ 2,261,605 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

TIME	TO	HOURS	CODE	SR	S	OPERATIONS
00:00	09:15	9.25	2	a	PP	Motor drilled ahead from 2088.6 mKB to 2106 mKB.
09:15	09:30	0.25	7		PP	Rig service. Function test Annular
09:30	17:00	7.50	2	a	PP	Motor drilled from 2106 m to 2118 mKB
17:00	18:30	1.50	5	i	PP	Pull off bottom and circulate sample to surface at rate of 0.865m3/min with pump pressure of 5500 Kpa.
18:30	18:45	0.25	28	a	PP	Safety meeting with suncor rep. Function test pipe rams
18:45	00:00	5.25	6	j	PP	Laid down power swivel and tripped out to log

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather Light Snow, -10c

Printed: 99-03-10 4:53:58 AM

SUNCOR NC RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 30

1. Date 99-03-08 Well Name Suncor Netia K-77-80-50-122-30 Contractor / Rig BONUS WELL SERVICING/235

2. Depth 2,024.00 (m) Operation Motor drilling 155.6 mm hole. Progress (m)

Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 626.20 (m)

Bit Type	Wt	Wt	Wt	PH	PV	VP	Solids	Calc	Flt Cake	Polymer
STARDRILL	1,040.0	57	7.8	10.50	17.00	14.00	2.5	7.0 / 9.0	1.0	
CAUSTIC 2 SX	ID VIS D 3 SX		DUALFLO 32 KG							
Size	Size (mm)	Wt	Wt	Wt	Wt	Wt	Wt	ROP (m/hr)	Force (RPM)	Cond.
7	155.600	ENP51H	ED1895			98.60	32.67	3.02	6,000 / 120	

6. Assembly: 1 155.60 Tri-Cone Bit, 1 123.00 Mud Motor, 1 122.00 Float Sub, 10 122.00 Drill Collar, 1 118.00 Cross Over, 1 88.90 pup joint, 1 88.90 "GX" Profile, 1 88.90 Pup Joint

7. Surveys:

SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
110	127.0	203.0	2,400	D.P.	54.2	m/min	D.C.	91.9	m/min
		114.0		R.S.P.P		kPa	@		SPM

9. B.O.P. Check 99-03-08 Last Drill 99-03-06 Incident Last Rig Insp. 99-03-08

Personnel: Total 29 Rig 10 Service 15 Suncor 4 Other 0

10. Time Breakdowns - Hours

22.25	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

11. Cost Day \$ 34,013 Cumulative \$ 2,219,098 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

TIME	TIME	TIME	TIME	TIME	TIME	OPERATIONS
00:00	14:30	14.50	2	a	PP	Total drilled depth at 00:00 was 2024 mKb, Continued to drill open hole as directed.
14:30	16:00	1.50	8	e	NU	Fuel leak on main pump shut down operations and attempt to repair leak. Unable to repair leak rig in spare pump after repairing pop valve on discharge line.
16:00	19:00	3.00	2	a	PP	Continued to motor drill new hole. Drilled to 2078.5 mKB at tour change.
19:00	23:15	4.25	2	a	PP	Tour change, held a safety / operations meeting w/ night shift prior to tour change. Continued to motor drill new hole.
23:15	23:30	0.25	7		PP	Connection jt # 208. Rig Service. Function tested the annular preventor - fully closed in 17 seconds.
23:30	00:00	0.50	2	a	PP	Continued to motor drill new hole. Drilled to 2088.6 mKB at 00:00 hrs.

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather Light Snow, -20°C

Printed: 99-03-09 2:03:05 AM

P.02

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 29

1. Date 99-03-07 Well Name Suncor Netta K-77-60-50-122-30 Contractor / Rig BONUS WELL SERVICING/235

2. Depth 2,024.00 (m) Operation Motor drill 155.6 mm hole Progress 34.00 (m)

Ground Elevation 818.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

3.	Mud Type	Wt. (kg)	Viscosity	W.L. (m)	pH	API	Y.P. (mPa.s)	Solids (%)	Gels	Filt. Cake	Polymer
	STARDRILL	1,040.0	45	6.5	9.50	7.00	10.00	2.5	3.0 / 7.0	1.0	
4.	SODA ASH 1 SX	SAWDUST 50 SX		DE-FOAM 1 L			ID VIS D 12 SX		STARCH 85 KG		
	DUALFLO 24 KG										
5.	Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	7	155.600	ENP51H	ED1895			34.00	13.75	2.47	6,000 / 120	

6. Assembly: 1 155.60 Tri-Cone Bit, 1 123.00 Mud Motor, 1 122.00 Float Sub, 10 122.00 Drill Collar, 1 118.00 Cross Over, 1 88.90 pup joint, 1 88.90 "GX" Profile, 1 88.90 Pup Joint

7. Surveys:

S.B.M.	Size	Stroke	Pressure	Annular Velocities					
110	127.0	203.0	2,525	D.P.	54.2	m/min	D.C.	91.9	m/min
		114.0		R.S.P.P		kPa	@		SPM

9. B.O.P. Check 99-03-07 Last Drill 99-03-06 Incident Last Rig Insp. 99-03-07

Personnel: Total 29 Rig 10 Service 15 Suncor 4 Other 0

10. Time Breakdowns - Hours

Drilling	16.25	Directions	0	Rig Service	.25	Relief	0	Core	0
Mudding	0	Cond. Mgr	4	Rig Repairs	.25	Run Casing	0	M/C	0
M/C	0	Survey	0	ROP On	0	D.S.T.	0	Fishing	0
Mudlogging	0	Sp. Rec	0	Cementing	0	Rig Up/Down	0	Other	0

11. Cost Day \$ 166,872 Cumulative \$ 2,185,085 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	03:00	3.00	2	d	PP	Began to drill on joint # 195, circulating fresh water @ 0.7 m3/min & 3500 kPa. Drilled down # 195 - no tag. M/C # 196, drilled down & tagged cement / wiper plug @ 1974 mKB. Drilled down #'s 196 & 197 to 1991.96 mKB. Rubber & cement returns to Tank # 2.
03:00	05:00	2.00	5	a	PP	Circulated 10m3, pumped a 5m3 plug of clean fresh water, & began to displace to "StarDrill" polymer mud system. Displaced the water to the sump.
05:00	07:00	2.00	5	a	PP	Stripped off the pack-off head, & stripped on the flow nipple. Closed the annular preventor & continued to circulate @ 0.35 m3/min & 2000 kPa while stripping on the flow nipple. Hauled in water to the mud tank & began to mix / condition "StarDrill" mud system.
07:00	09:30	2.50	5			Conditioned Stardrill mud system to drill ahead
09:30	10:15	0.75	28		NU	Repairs to Chimo equipment (Mud Pressure sensor, electrical)
10:15	12:30	2.25	2	a	PP	Motor drill from 1991 mKB to 1998 mKB
12:30	12:45	0.25	8	a	RU	Repairs to mud shaker
12:45	13:45	1.00	2	a	PP	Motor drill from 1998 mkb to 2000 mKB

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather Overcast -24

Printed 99-03-08 5:07:57 AM

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

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
13:45	14:00	0.25	7		PP	Rig serviced
14:00	00:00	10.00	2	a	PP	Motor drill from 2000 mkb to 2024 mkb

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather Overcast -24

Printed: 99-03-08 5:07:57 AM

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 28

1. Date 99-03-06 Well Name Suncor Netis K-77-80-50-122-30 Contractor / Rig BONUS WELL SERVICING/235

2. Depth 1,990.00 (m) Operation Beginning to drill out cement, wiper plug, & float collar. Progress (m)

Ground Elevation 818.40 (m) KB to GL 6.80 (m) KB to CF 6.46 (m) KB Elev. 825.20 (m)

3.	Mud Type	Water	Vis	Wt	pH	PV	YP	Solids	Gels	Fit	Cake	Polymer
4.												
5.	Bit No.	Size (mm)	Type	Serial No.	Year	Out (m)	Drilled (m)	Hours	ROP (m/hr)	Force/RPM	Cond.	
	7	155.600	ENP51H	ED1895						/		

6. Assembly: 1 155.80 Tri-Cone Bit, 1 123.00 Mud Motor, 1 122.00 Float Sub, 10 122.00 Drill Collar, 1 118.00 Cross Over, 1 88.90 pup joint, 1 88.90 "GX" Profile, 1 88.90 Pup Joint

7. Surveys:

8. S.P.M.	Size	Stroke	Pressure	Angular Velocities
		203.0	D.P.	46.1 m/min D.C. 86.8 m/min
		114.0	R.S.P.P	kPa @ SPM

9. B.O.P. Check 99-03-06 Last Drill 99-03-06 Incident Last Rig Insp. 99-03-06

Personnel: Total 25 Rig 10 Service 11 Suncor 4 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	0	Reaming	0	Collar	0
Tripping	16.5	Conn. Made	0	Rig Repair	0	Rig Clean	0	Welds	0
Circulating	0	Surveys	0	BOPD	0	D. Check	0	Flare	0
Logging	0	Slide Cuts	0	Cementing	0	Recon. Work	4.5	Others	0

11. Cost: Day \$ 29,478 Cumulative \$ 2,018,213 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	OPERATIONS
00:00	01:45	1.75	6	j	NP Repaired dog collar - the pin & nut were seized.
01:45	07:00	5.25	6	j	PP Made up & RIH w/ BHA # 6. Removed thread protectors, drifted, picked up & RIH w/ 88.9mm J-55 EUE tubing. The thread protectors were very difficult to remove due to frozen thread lubricant. Ran 34 joints of tubing @ tour change.
07:00	16:30	9.50	6	j	PP Continue to run in hole w/ BHA. Tagged cement top at 1974.18 mKB, 1.60m in on joint # 196.
16:30	19:00	2.50	1	j	PP Rig off flow nipple.
19:00	22:00	3.00	1	a	PP Rigged in the Power Swivel & pack-off head. Rigged in to drill cement & wiper plug w/ pump # 2 & the rig tank. Rigged in Entest's P-tank to recover potential kicks, & a shipping line to return mud to the shaker tank. Rigged in steam to the P-tank as well. Note: Pre-mixed 45m3 of "StarDrill" polymer / carbonate mud.
22:00	22:30	0.50	28		PP Held a safety / operations meeting w/ all on site personnel. Reviewed procedures, communication, personnel responsibilities, & potential well conditions upon drilling through the shoe.

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather light snow. -25c to -15c

Printed: 99-03-06 5:07:42 AM

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	CH	OPERATIONS
22:30	00:00	1.50	1	a	PP	Installed a shaker screen in the suction pot on pump # 2. Broke circulation to tank # 2 w/ fresh water - used 5.2 m3 to fill the well. Changed suctions to circulate & fill tank # 2 to a useable volume from 63.6m3 storage tank. Tightened the riser spool flanges. Had good circulation @ 0.7m3/min & 3500 kPa.

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather Light Snow. -25c to -15c
Printed: 99-03-08 6:07:42 AM

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

Drilling Report At Midnight

D.F.S. 27

1. Date 99-03-05 Well Name Suncor Netla K-77-50-50-122-30 Contractor / Rig BONUS WELL SERVICING/235

2. Depth 1,980.00 (m) Operation Picking up tubing Progress (m)

Ground Elevation 818.40 (m) KB to GL 8.80 (m) KB to CF 8.45 (m) KB Elev. 825.20 (m)

3. Mod Type	Wt	Vis	Wt	PH	PV	YP	Solids	Gels	Flt. Cake	Polymer
4. Bit No.	Size (mm)	Type	Serial No.	Wt	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force (RPM)	Cond.
7	155.600	EHP51H	ED1895							

6. Assembly: 1 155.60 Tri-Cone Bit, 1 123.00 Mud Motor, 1 122.00 Float Sub, 10 122.00 Drill Collar, 1 118.00 Cross Over, 1 88.90 pup joint, 1 88.90 "GX" Profile, 1 88.90 Pup Joint

7. Surveys:

8. S.P.M.	Size	Stroke	Pressure	Annular Velocity	D.P.	m/min	D.C.	m/min
		203.0			46.1		86.8	
		114.0		R.S.P.P		kPa	@	SPM

9. B.O.P. Check 99-03-05 Last Drill Incident Last Rig Insp. 99-03-05

Personnel: Total 33 Rig 10 Service 18 Suncor 5 Other 0

10. Time Breakdowns - Hours

Drill	0	Drill	0	Rig Service	.5	Drill	0	Drill	0
Tripping	0	Drill	0	Rig Service	0	Drill	0	Drill	0
Chillate	0	Drill	0	Drill	2	Drill	0	Drill	0
Logging	0	Drill	0	Cementing	0	Drill	20.5	Other	0

11. Cost: Day \$ 38,298 Cumulative \$ 1,988,735 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	CT	OPERATIONS
00:00	07:00	7.00	1	a	PP	Continued to rig in the service rig, support equipment, & drilling equipment.
07:00	07:15	0.25	7		PP	Tour change. Held a safety / operations meeting w/ all on site personnel. Serviced the rig & equipment.
07:15	17:00	9.75	1	a	PP	Moved in, spotted, & rigged in Entest's P-tank, line heater, & flare stack. Continued to rig in the service rig & drilling equipment. Rigged in Chimo's electronic drill recorder. Rigged in Firemaster's 4-head H2S monitoring system, as well as an LEL monitor @ the wellhead. Tallied the drill collars & one tier of tubing. Note: Rental light plant went down, and would not generate power once re-started. Had an electrician effect repairs.
17:00	19:00	2.00	15	a	PP	Landed the tubing hanger. Pressure tested the pipe rams, blind rams, & annular preventor to 1.4 & 21 MPa for 10 minutes each. Tightened the wellhead connection & re-tested - solid tests.
19:00	19:15	0.25	7		PP	Tour change. Held a safety / operations meeting w/ all on site personnel. Serviced the rig & equipment.
19:15	23:00	3.75	1	a	PP	Rigged in the floor & handling equipment. Rigged in Oil Country power tongs. Installed pick-up subs in the drill collars & removed box

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather: Light Snow. -27c to -12c

Printed: 99-03-07 7:13:27 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	OPERATIONS
19:15	23:00	3.75	1	a	PP thread protectors.
23:00	00:00	1.00	28		PP Conducted a rig & lease walkaround inspection. Conducted a full accumulator function test as follows: Class III, 360 l system Shaffer LWS 34.5 MPa double gate Shaffer 34.5 MPa annular preventor Volume to close each ram = 4.7 l Volume to close Bag = 17.3 l Precharge average = 7000 kPa Usable fluid = 119 l N2 back-up, 2 X 42 l bottles, 13.8 MPa Usable N2 = 55 l System Pressure = 14,000 kPa Manifold Pressure = 10,000 kPa Time to close rams = 4 seconds each Time to close bag = 16 seconds System pressure after 3 closing functions = 10,200 kPa Recharge time = 85 seconds (14,400 kPa)

13. Foreman in Charge Brazel, Valin, Petroski 220-9479

Weather: light snow. -27c to -12c

Printed: 99-03-07 7:13:27 AM

MAR-08-1999 08:45

403 269 6203

97%

P.07

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 26

1. Date 99-03-04 Well Name Suncor Netla K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./582. Depth 1,990.00 (m) Operation Rigging in the service rig & drilling equipment. Progress (m)Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

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

6. Assembly: _____

7. Surveys: _____

8.	SPM	Size	Stroke	Pressure	Annular Velocities					
			254.0		D.P.	46.1	m/min	D.C.	86.8	m/min
			254.0		R.S.P.P		kPa	@		SPM

9. B.O.P. Check 99-03-01 Last Drill _____ Incident _____ Last Rig Insp. _____
Personnel: Total 62 Rig 30 Service 27 Suncor 5 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	0	Reaming	0	Coring	0
Dipping	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C	0
Circulate	0	Survey	0	BOP Drill	0	DST	0	Fishing	0
Loading	0	Sip & Cut	0	Demolition	0	Rig Up/Down	15.5	Others	8

11. Cost: Day \$ 52,006 Cumulative \$ 1,941,084 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
08:00	12:00	4.00	23	d	PP	Completed loading & hauling Akita # 58 off location (Mullen Trucking).
12:00	20:00	8.00	23	b	PP	Moved on Bonus Well Servicing rig # 235 from Netla C-07 to the above location. The location was soft around the wellhead, & the ditches weren't filled in due to time constraints. 4 extra pieces of swamp matting were used to spot the rig, pumps, & tanks on. Moved on & spotted: matting, service rig, Class III accumulator & BOP's, mud tank c/w shaker, clean rig tank, 63.6m3 storage tank, boiler, combination shack, power swivel, 2 pumps, fuel skid, & utility skid. Installed & pull tested rig anchors, as well as anchors for the flare stack & grounds for the generators.
20:00	22:00	2.00	1	a	PP	Rigged in the service rig, drilling & support equipment.
22:00	22:30	0.50	28		PP	Held a safety / operations meeting w/ all on site personnel.
22:30	00:00	1.50	1	a	PP	Continued to rig in the service rig, drilling & support equipment.

3. Foreman in Charge L.Brazel 220-9479Weather attered cloud. -20c to -5c

Printed: 99-03-05 7:47:19 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 25

1. Date 99-03-03 Well Name Suncor Netla K-77-80-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 1,990.00 (m) Operation Rig move off Progress (m)

Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

3.	Mud Type	W.C.	M.C.	W.L.	P.H.	P.V.	V.P.	Solids	Gels	Filtrate	Polymers
4.											
5.	Dr. No.	Stand (mm)	Test (mm)	Stand No.	Dr. No.	Stand (mm)	Test (mm)	Hour	ROP (m/hr)	Force (RPM)	Cond.

6. Assembly: _____

7. Surveys: _____

8.	SPM	SEA	Stroke	Pressure	Angular Velocity						
			254.0		D.P.	46.1	m/min	D.C.	86.8	m/min	
			254.0		R.S.P.P		kPa	@		SPM	

9. B.O.P. Check 99-03-01 Last Drill Incident Last Rig Insp. _____

Personnel: Total 43 Rig 20 Service 22 Suncor 1 Other 0

10. Time Breakdowns - Hours

	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	12	0	12

Cost: Day \$ 27,658 Cumulative \$ 1,889,078 AFE \$ 2,042,430 AFE # A9811680X77

12. Operation Summary

TIME	TO	HOURS	CODE	SUB	OP	OPERATIONS
08:00	20:00	12.00	1	b	PP	Conducted an safety meeting with Mullen Trucking. Dismantle rig and move off location.

13. Foreman in Charge L. Brazel 220-9479

Weather attered cloud. -15c to -5c

Printed: 99-03-03 11:58:51 PM

MAR-04-1999 09:18

403 269 6203

99%

P.02

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 24

1. Date 99-03-02 Well Name Suncor Netla K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 1,990.00 (m) Operation Akita 58# Rig Released Progress (m)

Ground Elevation 518.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

3. Mud Type	W/L	V/L	T/L	P/L	P/L	Grains	Gas	Fill Cake	Polymer
4. Bit No.	Size (mm)	Type	Serial No.	OD (m)	Drill (m)	Rate	ROP (m/hr)	Force (RPM)	Cond.

6. Assembly: _____

7. Surveys: _____

8. Stroke	Stroke	Pressure	Rotary Velocity
	254.0		D.P. 46.1 m/min D.C. 86.8 m/min
	254.0		R.S.P.P. kPa @ SPM

9. B.O.P. Check 99-03-01 Last Drill 99-02-27 Incident _____ Last Rig Insp. 99-03-02

Personnel: Total 37 Rig 20 Service 16 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	0	Drilling	0	Drilling	0	Drilling	0	Drilling	0
Drilling	0	Drilling	0	Drilling	0	Drilling	0	Drilling	0
Drilling	0	Drilling	0	Drilling	0	Drilling	0	Drilling	0
Drilling	0	Drilling	0	Drilling	0	Drilling	20	Drilling	4

11. Cost Day \$ 26,244 Cumulative \$ 1,861,420 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

TIME	TO	FROM	CODE	SUB	OP	DESCRIPTION
00:00	08:00	8.00	22	b	PP	Tear out rentals (top drive, Centrifuges, Premix tank). Rig released to move
08:00	20:00	12.00	1	b	PP	Tear out rig to move. Move off 4 loads of drill pipe, 2 buildings to rack site of Canadian Forest

3. Foreman in Charge L. Brazel 220-9479Weather attered cloud. -15c to -5cPrinted: 99-03-02 11:28:41 PM

P.02

P.02

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 21

1. Date 99-02-27 Well Name Suncor Netia K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD /58

2. Depth 1,990.00 (m) Operation Lay down drill pipe Progress (m)

Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

Mud Type	Wt. (kg/m ³)	Vis. (cP)	W.U. (ppm)	pH	RV (ppm)	SS (ppm)	Solids (ppm)	Gels (ppm)	Fill Cake (ppm)	Polymer (ppm)
K2SO4 Visplex	1,210.0		8.0	10.00	16.00	31.00	12.5	20.0 / 21.0	1.5	
Potassium Sulfat 23 ax	CAUSTIC 1 SX		BIocide (BIOTROL 3 PAIL		FLOPLEX 10 SX					
Bit No.	Size (mm)	Type	Serial No.	Jobs	Out (m)	Drilled (m)	Hours	ROP (m/hr)	Force/RPM	Cond.
6	222.000	F10T	LT7094		1,990.00				/	4 3 I

6. Assembly: 222.20 Tri-Cone Bit, 173.00 Bit Sub, 1 178.00 Drill Collar, 1 174.00 Drilling Jar, 2 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys:

SPM	Size (mm)	Stroke (mm)	Pressure (kPa)	Angular Velocities (RPM)	Weight (kg)	Length (m)	Time (min)
90	152.0	254.0	5,000	D.P.	46.1	m/min	D.C.
		254.0		R.S.P.P	4,000	kPa	@
							50
							SPM

9. B.O.P. Check 99-02-27 Last Drill 99-02-27 Incident Last Rig Insp. 99-02-27

Personnel: Total 29 Rig 15 Service 13 Suncor 1 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	.75	Running	0	Casing	0
Tripping	9.25	Cond. Mud	0	Rig Repair	0	Rig Check	0	W.S.C.	0
Circulation	0	Survey	0	BOP	0	Drilling	0	Pulling	0
Logging	3.75	SRBAC	1.25	Cementing	0	Blowdown	0	Others	0

11. Cost: Day \$ 79,353 Cumulative \$ 1,717,382 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	CR	OPERATIONS
00:00	09:00	9.00	11	a	PP	Log open open hole with Schlumberger. No 1 Log on bottom at 0130 hours at 1990 mKb
09:00	11:00	2.00	6	h	PP	Pick up BHA and trip in to condition hole for casing
11:00	12:15	1.25	9		PP	Slip & cut drilling line
12:15	12:45	0.50	7		PP	Rig serviced. Function tested lower pipe rams. BOP drill. Well secure in 1 minute
12:45	17:15	4.50	6	h	PP	Picked up 18 singles. Tripped into hole. Broke circulation every 300 m.
17:15	21:00	3.75	5	d	PP	Circulated hole clean and conditioned mud.
21:00	21:15	0.25	7		PP	Rig serviced. Functioned bottom pipe rams.
21:15	00:00	2.75	6	h	PP	Tripped out 300 m. Lay down drill pipe

13. Foreman in Charge L.Brazel / P. Miller 220-9479

Weather Clear -5 to -20c

Printed: 99-03-01 5:48:34 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 20

1. Date 99-02-26 Well Name Suncor Nette K-77-60-60-122-30 Contractor / Rig AKITA DRILLING LTD/58

2. Depth 1,990.00 (m) Operation Log with Schlumberger Progress (m)

Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

Mud Type	Wt	Vis	Wt	pH	P.V.	YP	Solids	Gels	Filt. Cake	Polymer
K2904 Visplex	1,205.0		7.2	10.00	20.00	32.50	12.5	20.0 / 21.0	1.5	
4. BIOCID (BIOTROL 3 PAIL)										
Bit No.	Size (mm)	Type	Serial No.	Yds	Out (m)	Drilled (m)	Hours	RQP (m/hr)	Force/RPM	Cond.
5	222.000	F10T	LT7094	15.9 15.9 15.9	1,990.00				/	4 5 1

5. Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 162.00 Float Sub, 162.00 Muleshoe Sub, 2 161.00 Non-Mag Drill Collar, 160.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Stroke	Pressure	Annular Velocity	SPM
90	152.0	254.0	9,000	D.P.
		254.0	4,800	R.S.P.P.
				kPa @ 50

9. B.O.P. Check 99-02-25 Last Drill 99-02-18 Incident Last Rig Insp. 99-02-26

Personnel: Total 32 Rig 15 Service 14 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	0	Drilling	0	Rig Service	.5	Drilling	0	Drilling	0
Drilling	8.75	Drilling	0	Rig Service	0	Drilling	0	Drilling	0
Drilling	0	Drilling	0	Rig Service	0	Drilling	0	Drilling	0
Drilling	10.5	Drilling	0	Rig Service	0	Drilling	0	Drilling	0

11. Cost Day \$ 43,242 Cumulative \$ 1,638,028 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	CT	OPERATIONS
00:00	01:15	1.25	5	d	PP	Circulate bottom hole sample and survey
01:15	01:30	0.25	7		PP	Rig serviced. Function tested annular
01:30	08:45	7.25	6	h	PP	Wiper tripped from 1990 to 990 mKb. Pumped out and back reamed 435 m from 1990 to 1555 mKb.
08:45	09:00	0.25	7		PP	Rig serviced. Function tested bottom pipe rams
09:00	12:45	3.75	5	d	PP	Circulated hole clean and conditioned mud
12:45	18:15	5.50	6	c	PP	Tripped out to log. Pumped out 348 m. Strapped out log
18:15	19:45	1.50	6	j	PP	Lay down directional tools. Blow mud lines.
19:45	00:00	4.25	11	a	PP	Rig to log with Schlumberger and log open hole

13. Foreman in Charge L. Brazel / P. Miller 220-9479

Weather Low Overcast -12, -20c

Printed: 99-02-27 8:10:12 AM

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 19

1. Date 99-02-25 Well Name Suncor Netla K-77-80-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 1,990.00 (m) Operation Circulate sample checking for casing point Progress 118.00 (m)

Ground Elevation 616.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

3.	ModType	Wt	Wt	Wt	PH	PV	MP	Solder	Gels	Filt.Cake	Polymer
	K2904 Visplex	1,205.0		7.2	10.00	17.00	31.50	12.5	22.0 / 23.0	1.5	
4.	Potassium Sulfat 51 sx	CAUSTIC 1 SX			SODAASH 1 SX			FLOPLEX 33 SX			
5.	Bit No	Size (mm)	Type	Serial No	Jets	Out (m)	Drilled (m)	Hours	ROR (m/Hr)	Force/RPM	Cond
	5	222.000	F10T	LT7094	15.9 15.9 15.9		413.00	81.50	5.07	30 / 90	

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 182.00 Float Sub, 182.00 Muleshoe Sub, 2 181.00 Non-Mag Drill Collar, 160.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 1,869.28/3,700/341.050 1,878.73/2,900/348.790 1,888.19/2,200/6.400 1,897.80/1,900/32.380 1,906.90/2,200/64.170 1,916.60/2,500/75.980
1,926.20/2,800/86.410 1,945.30/2,000/104.030 1,955.10/1,500/118.870 1,974.18/0.800/171.600 1,978.00/0.580/178.420

SPM	Spd	Stroke	Pressure	Annular Velocities
90	152.0	254.0	10,000	D.P. 46.1 m/min D.C. 86.8 m/min
		254.0	R.S.P.P.	6,100 kPa @ 50 SPM

9. B.O.P. Check 99-02-25 Last Drill 99-02-18 Incident Last Rig Insp. 99-02-25

Personnel: Total 32 Rig 15 Service 14 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	20.75	Rig Service	.5	Reaming	0	Coring	0
Triping	0	Cond. Monitoring	0	Rig Repair	0	Rig Running	0	Work	0
Circulating	.25	Surveys	2.5	BOP/Drill	0	B.P.T.	0	Rehooking	0
Logging	0	Slurries/Cuttings	0	Connections	0	Repositioning	0	Others	0

11. Cost: Day \$ 154,053 Cumulative \$ 1,594,786 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:15	0.25	7		PP	Rig service. Function top pipe rams.
00:15	14:30	14.25	20	a	PP	Directional drill 222mm from 1872 m to 1949 mKb
14:30	16:15	1.75	10	e	PP	Cumulative: MWD surveys
16:15	16:30	0.25	7		PP	Rig service. Function bottom pipe rams
16:30	23:00	6.50	20	a	PP	Directional drill 222 mm from 1949 m to 1990 mKb
23:00	23:45	0.75	10	e	PP	Cumulative: MWD surveys
23:45	00:00	0.25	5	1	PP	Circulate up bottom hole sample

13. Foreman in Charge L.Brazel / P. Miller 220-9479

Weather Low Overcast -12, -20c

Printed: 99-02-26 6:22:44 AM

D.F.S. 17

P.02

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

ling Report At Midnight

D.F.S. 16

1. Date 99-02-22 Well Name Suncor Neta K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD/58
 2. Depth 1,685.00 (m) Operation Directional drill 222 mm at 1685 mKb Progress 55.00 (m)
 Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

Mud Type	Wt	V	Wt	PH	SP	Y.P.	Solids	Gels	FIL Cake	Polymer
K2904 Visplex	1,185.0		7.2	9.50	20.00	27.00	11.0	16.0 / 17.0	1.5	
Potassium Sulfat 67 sx	CAUSTIC 1 SX		FLOPLEX 23 SX							
SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
5	222.000	F10T	LT7094	15.9	15.9	15.9	108.00	20.75	5.20	24,000 /

8. Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 162.00 Float Sub, 162.00 Muleshoe Sub, 2 161.00 Non-Mag Drill Collar, 160.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 1,639.15/25.500/341.050 1,648.63/25.000/341.760 1,658.32/24.300/343.180 1,668.00/23.900/336.680 1,677.88/23.700/350.200

SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM	SPM
90	152.0	254.0	9,000	D.P.	46.1	m/min	D.C.	86.8	m/min
		254.0		R.S.P.P	4,800	kPa	@	50	SPM

9. B.O.P. Check 99-02-20 Last Drill 99-02-18 Incident Last Rig Insp. 99-02-21
 Personnel: Total 33 Rig 15 Service 15 Suncor 3 Other 0

10. Time Breakdowns - Hours

0	10	.5	0	0
11.25	0	0	0	0
0	1.75	0	0	0
0	0	0	0	0

11. Cost Day \$ 58,506 Cumulative \$ 1,331,258 AFE \$ 2,042,430 AFE # A9011680K77

12. Operation Summary

TIME	TIME	HOURS	DEPTH	LOG	OPERATIONS
00:00	00:15	0.25	7		PP Rig service. Function test remote choke
00:15	09:30	9.25	20	a	PP Directional drill 222 mm from 1630 m to 1681 mKb
09:30	11:15	1.75	10	e	PP Cumulative: MWD surveys
11:15	16:45	5.50	6	j	PP Trip out to set up mud motor
16:45	17:00	0.25	7		PP Rig serviced. Function tested blind rams.
17:00	17:30	0.50	28		PP Safety meeting with Akita crew & Akita field super.
17:30	18:15	0.75	6	j	PP Check bit. Change motor from 1.5 degrees to 2.125 degrees. Serviced MWD.
18:15	23:15	5.00	6	j	PP Tripped in hole. Function tested MWD at 590 mKb. Break circulation at 870 m, 1160 m, 1440 m.
23:15	00:00	0.75	20	a	PP Directional drilled 222 mm from 1681 m to 1685 mKb

13. Foreman in Charge L.Brazel / P. Miller 220-9479

Weather Overcast -18,-10

Printed: 99-02-23 7:28:37 AM

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 15

1. Date 99-02-21 Well Name Suncor Netia K-77-80-50-122-30 Contractor / Rig AKITA DRILLING LTD/58

2. Depth 1,630.00 (m) Operation Directional drill with Anadrill & MWD Progress 53.00 (m)

Ground Elevation 818.40 (m) KB to GL 8.80 (m) KB to CF 8.45 (m) KB Elev. 825.20 (m)

3.	Mud Type	Wt. (ppg)	Vis. (cP)	W.E. (sec)	pH	PV (sec)	YP (lb/100)	Solids (%)	Gels (10/30)	Filt. Cake (in)	Polymer (ppm)	
	K2SO4 Visplex	1,195.0		8.5	10.50	18.00	34.50	11.0	20.0 / 21.0	1.5		
4.	Potassium Sulfat 52 sx	CAUSTIC 2 SX			FLOPLEX 19 SX							
5.	Bit No	Size (mm)	Type	Serial No	Jets		Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Forc/RPM	Cond
	5	222.000	F10T	LT7094	15.9	15.9 15.9		53.00	10.75	4.93	24 / 90	
	4	222.000	F10T	LT7093	15.9	15.9 15.9	1,577.00				/	3 E I

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 162.00 Float Sub, 162.00 Muleshoe Sub, 2 161.00 Non-Mag Drill Collar, 160.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 1,572.81/28.500/338.240 1,582.21/28.200/338.950 1,591.81/28.300/339.850 1,601.39/27.900/340.350 1,610.64/27.200/340.350 1,619.93/26.200/341.760 1,629.64/25.800/341.760

S.P.M.	Size (mm)	Stroke	Pressure	Annular Velocities	Flow Rate	Pressure	Flow Rate
90	152.0	254.0	9,400	D.P.	46.1	m/min D.C.	86.8
		254.0		R.S.P.P	5,400	kPa @	50
							SPM

9. B.O.P. Check 99-02-20 Last Drill 99-02-18 Incident Last Rig Insp. 99-02-21

Personnel: Total 33 Rig 15 Service 15 Suncor 3 Other 0

Time Breakdowns - Hours

Drilling	0	Directional	10.75	Rig Service	.5	Running	0	Coring	0
Tripping	11.5	Conn. M.L.	0	Rig Repair	0	Run. Casing	0	W.O.C.	0
Circulate	0	Run	1.25	BOP Drill	0	D.S.	0	Fishing	0
Logging	0	Stop	0	Camming	0	Rig down	0	Other	0

11. Cost Day \$ 37,931 Cumulative \$ 1,272,752 AFE \$ 2,042,430 AFE # A9811680x77

Operation Summary

FROM	TO	HOURS	W CODE	SUB	C	OPERATIONS
00:00	04:00	4.00	6	a	PP	Tripped out for bit. Hole good shape from 1400 m to surface.
04:00	06:45	2.75	6	a	PP	Change out bit, Mud motor, check MWD.
06:45	07:00	0.25	7		PP	Rig serviced. Function tested blind rams
07:00	11:45	4.75	6	a	PP	Tripped in hole. Shallow MWD check at 565 mKb. Break circulation at 970 m, 1300 m, 1528 m.
11:45	12:00	0.25	7		PP	Rig serviced. Function tested pipe bottom pipe rams
12:00	22:45	10.75	20	a	PP	Directional drilled 222 mm from 1577 m to 1630 mKb
22:45	00:00	1.25	10	e	PP	Cumulative MWD surveys

13. Foreman In Charge L.Brazel / P. Miller 220-9479

Weather Overcast -18,-10

Printed: 99-02-22 6:09:58 AM

FEB-22-1999 09:41

403 269 6203

98%

P.02

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

Drilling Report At Midnight

D.F.S. 14

1. Date 99-02-20 Well Name Suncor Netla K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58
 2. Depth 1,577.00 (m) Operation Trip for bit. Progress 93.00 (m)
 Ground Elevation 818.40 (m) KB to GL 6.80 (m) KB to CF 6.45 (m) KB Elev. 825.20 (m)

3.	Mud Type	Wt	Vis	W.L.	pH	P.V.	Y.P.	Solids	Gels	Fill Cake	Polymer
	K2SO4 Viaplex	1,190.0		7.6	10.00	19.00	32.00	10.0	19.0 / 20.0	1.5	
4.	Potassium Sulfat 32 sx	CAUSTIC 2 SX		FLOPLEX 20 SX							
5.	Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/hr)	Force/RPM	Cond.
	4	222.000	F10T	LT7093	15.9 15.9 15.9		472.00	82.50	5.72	22,000 / 90	

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 162.00 Float Sub, 162.00 Muleshoe Sub, 2 161.00 Non-Mag Drill Collar, 180.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 1,498.20/29.700/336.800 1,505.80/28.500/337.300 1,515.40/27.800/335.400 1,525.04/28.100/334.700 1,534.41/29.300/334.730 1,543.97/29.700/336.500
 1,553.60/29.200/336.500 1,563.01/28.800/337.690

8.	S.P.M.	Size	Stroke	Pressure	Annular Velocities						
	90	152.0	254.0	9,100	D.P.	46.1	m/min	D.C.	86.8	m/min	
			254.0		R.S.P.P.	5,700	kPa	@	50	SPM	

9. B.O.P. Check 99-02-20 Last Drill 99-02-18 Incident Last Rig Insp. 99-02-20
 Personnel: Total 34 Rig 15 Service 16 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	19.25	Rig Service	.5	Relief	0	Condu	0
Trip	1.5	Cond. Mud	0	Rig Rep	.25	Run C	0	M.O.C	0
Cross	0		2.5	Post	0	D	0	Safe	0
Leaving	0	SLC	0	Cement	0	Rig Down	0	Other	0

11. Cost: Day \$ 47,657 Cumulative \$ 1,234,821 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:15	0.25	7		PP	Rig serviced. Function test annular.
00:15	13:45	13.50	20	a	PP	Directional drilled 222 mm from 1484 m to 1548 mKb
13:45	15:30	1.75	10	e	PP	MWD surveys as required
15:30	15:45	0.25	7		PP	Rig serviced. Function tested top pipe rams
15:45	21:30	5.75	20	a	PP	Directional drilled 222mm from 1548 m to 1577 mKb
21:30	22:15	0.75	10	e	PP	MWD surveys as required
22:15	22:30	0.25	8	a	RU	Change out shaker screens
22:30	00:00	1.50	6	a	PP	Tripped out for bit. Pumped out 7 stands of drill pipe out of the ft Simpson formation.

13. Foreman in Charge L.Brazel / P. Miller 220-9479

Weather Overcast -18,-10

Printed: 99-02-21 8:08:29 AM

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 13

1. Date 99-02-19 Well Name Suncor Netla K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 1,484.00 (m) Operation Directional drill with Anadrill motor & MWD Progress 111.00 (m)

Ground Elevation 618.40 (m) KB to GL 8.80 (m) KB to CF 6.45 (m) KB Elev. 625.20 (m)

3. Mud Type K2904 Visplex 1,180.0 7.3 9.70 19.00 31.00 10.0 22.0 / 23.0 1.5 Polymer

4. Potassium Sulfat 91 sx CAUSTIC 3 SX FLOPLEX 41 SX BENTONITE M1 24 SX

5. Bit No. 4 Size (mm) 222.000 Type F10T Serial No. LT7093 Jets 15.9 15.9 15.9 Out (m) 379.00 Drilled (m) 63.25 Hours 5.99 ROP (m/Hr) 22,000 / 90 Force/RPM Cond:

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 162.00 Float Sub, 162.00 Muleshoe Sub, 2 161.00 Non-Mag Drill Collar, 160.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 1,391.13/26.400/333.300 1,400.75/26.800/332.620 1,410.34/27.300/334.730 1,419.96/28.000/334.730 1,429.55/28.700/334.880 1,439.20/28.200/335.400
1,448.90/27.600/334.700 1,458.60/28.000/334.000 1,467.90/28.900/336.400 1,477.30/29.800/338.100 1,486.94/30.400/337.760

8. S.P.M. 90 Size 152.0 Stroke 254.0 Pressure 9,000 Annular Velocity 46.1 m/min D.C. 86.8 m/min
254.0 R.S.P.P. 5,200 kPa @ 50 SPM

9. B.O.P. Check 99-02-19 Last Drill 99-02-19 Incident 99-02-19 Last Rig Insp. 99-02-19

Personnel: Total 34 Rig 15 Service 16 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	0	20.5	.5	0	0
Tripping	0	0	0	0	0
Connections	0	3	0	0	0
Upgrades	0	0	0	0	0

11. Cost: Day \$ 41,953 Cumulative \$ 1,187,163 AFE \$ 2,042,430 AFE # A9811680X77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	OPS	OPERATIONS
00:00	00:15	0.25	7		PP	Rig service. Function test top pipe rams
00:15	11:15	11.00	20	a	PP	Directional drill 222 mm from 1373 m to 1433 mKb
11:15	12:15	1.00	10	e	PP	Cumulative: MWD surveys
12:15	12:30	0.25	7		PP	Rig service. Function test bottom pipe rams
12:30	22:00	9.50	20	a	PP	Directional drill 222 mm from 1433 m to 1484 mKb
22:00	00:00	2.00	10	e	PP	Cumulative: MWD surveys

13. Foreman In Charge L.Brazel / P. Miller 220-9479

Weather Overcast -22 -17

Printed: 99-02-20 7:48:08 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.P.S. 12

Date 99-02-18 Well Name Suncor Netia K-77-60-50-123-30 Contractor / Rig AKITA DRILLING LTD/58
Depth 1,373.00 (m) Operation Motor drill ahead 222mm hole tangent section Progress 122.00 (m)
Ground Elevation 816.40 (m) KB to GL 8.80 (m) KB to CF 826.20 (m) KB Elev 826.20 (m)

Mat Type	Wt	Mo	YEL	DR	PP	Solids	Gas	Rat. Data	Polymers	
K2504 Visplex	1,155.0		8.3	10.00	18.00	28.00	9.4	17.0 / 19.0	1.5	
Potassium Sulfate 186 ex	CAUSTIC 2 SX		FLOPLEX 27 SX							
SPM	Wt (kg)	Type	Serial No.	Wt	Out (m)	Drill (m)	Hours	PP (m)	Flow Rate	Cond
4	222.000	FLOT	LT7093	15.9 15.9 15.9		269.00	42.75	6.27	18,000 / 90	

Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 162.00 Float Sub, 162.00 Muleshoe Sub, 2 181.00 Non-Mag Drill Collar, 160.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

Surveys: 1,248.75/23.900/344.570 1,268.52/25.000/345.080 1,286.27/26.200/347.400 1,278.27/27.100/347.790 1,285.74/27.900/348.090 1,295.48/28.500/346.880
1,305.15/28.700/344.570 1,314.72/28.900/341.050 1,324.31/29.200/338.240 1,334.00/29.600/338.200 1,343.38/29.800/337.540 1,353.04/29.600/340.350
1,362.59/28.700/337.640 1,371.99/27.200/338.240 1,381.70/28.500/334.000

SPM	Wt	Pressure	Applied Velocity	Flow Rate	Cond
90	152.0	254.0	7,200	D.P. 46.1 m/min D.C. 86.8 m/min	
		254.0	R.S.P.P. 4,600	kPa 50	SPM

B.O.P. Check 99-02-18 Last Drill 99-02-18 Incident Last Rig Insp. 99-02-18
Personnel: Total 34 Rig 15 Service 15 Suncor 3 Other 0

1. Time Breakdowns - Hours

Drilling	0	Directional	19.75	Welding	.5	Welding	0	Cable	0
Welding	0	Coord. Mat.	0	Tr. Labels	0	Run Cable	0	W. Cable	0
Circulate	0	Survey	3.25	BOP Drill	0	D.S.T.	0	Testing	0
Logging	0	Blk & Cld	0	Cementing	0	Rig Up/Down	0	Other	0

1. Cost: Day \$ 41,000 Cumulative \$ 1,143,210 AFE \$ 2,042,430 AFE # A9011006K77

2. Operation Summary

TIME	TO	HOURS	CODE	SUB	OPERATIONS
00:00	00:15	0.25	7		PP Rig serviced. Function tested remote choke
00:15	11:00	10.75	20	a	PP Directional drill 222mm from 1251 m to 1319 mKb
11:00	12:15	1.25	10	e	PP Cumulative MWD surveys
12:15	12:30	0.25	28		PP BOP drill. Well secure in 90 seconds with annular
12:30	12:45	0.25	7		PP Rig service. Function test top pipe rams
12:45	21:45	9.00	20	a	PP Directional drill 222mm from 1319 m to 1373 mKb
21:45	22:00	0.25	28		PP BOP drill. Well secure
22:00	00:00	2.00	10	e	PP Cumulative MWD surveys

1. Foreman in Charge L. Brazel / P. Miller 220-9479

Weather Overcast -22 -17

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 11

1. Date 99-02-17 Well Name Suncor Netla K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 1,251.00 (m) Operation Directional drill 222 mm hole Progress 134.00 (m)

Ground Elevation 818.40 (m) KB to GL 8.80 (m) KB to CF 625.20 (m) KB Elev. 625.20 (m)

Mud Type	WT	Vis	W.P.	pH	EV	Y.P.	Solids	Gels	Filt. Cake	Polymer
K2SO4 Visplex	1,145.0		8.3	10.00	13.00	16.00	9.0	11.0 / 13.0	1.0	
Potassium Sulfat 108 ax	CAUSTIC 2 SX		VISPLEX 118 SX		FLOPLEX 54 SX					
Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/hr)	Force/RPM	Cond
4	222.000	F10T	LT7093	15.9 15.9 15.9		146.00	23.00	6.35	18,000 / 90	

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 162.00 Float Sub, 162.00 Muleshoe Sub, 2 161.00 Non-Mag Drill Collar, 160.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 1,131.50/5.700/351.800 1,141.84/7.300/348.790 1,151.02/8.900/348.090 1,161.00/10.100/348.790 1,170.75/11.200/348.090 1,180.60/12.000/349.490
1,189.28/13.800/348.090 1,199.24/15.800/348.090 1,208.92/17.500/347.380 1,218.48/19.300/346.980 1,228.22/21.100/343.870 1,237.62/22.700/343.870

S.P.M.	Size	Stroke	Pressure	Annual Velocities
90	152.4	254.0	10,200	D.P. 46.1 m/min D.C. 86.8 m/min
		254.0	R.S.P.P.	kPa @ SPM

9. B.O.P. Check 99-02-16 Last Drill 99-02-13 Incident Last Rig Insp. 99-02-17

Personnel: Total 34 Rig 15 Service 16 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	20.25	Rig Service	.5	Remaining	0	Contingency	0
Tripping	0	Cond. Mod.	0	Rig Serv.	0	Rig Serv.	0	MWD Cont.	0
Circulation	0	Surveys	3.25	BOP Drill	0	D.S.	0	Flaring	0
Logistics	0	Spill Clean	0	Cementing	0	Run down	0	Others	0

11. Cost: Day \$ 47,721 Cumulative \$ 1,098,153 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	DESCRIPTION
00:00	05:30	5.50	20	a	PP Directional drilled 222 mm from 1117 m to 1145 mKb
05:30	06:00	0.50	10	e	PP Cumulative: MWD surveys as required
06:00	06:15	0.25	7		PP Rig service. Function test lower pipe rams
06:15	14:15	8.00	20	a	PP Directional drilled 222 mm from 1145 m to 1202 mKb
14:15	15:45	1.50	10	e	PP Cumulative: MWD surveys as required
15:45	16:00	0.25	7		PP Rig serviced. Function test lower pipe rams
16:00	22:45	6.75	20	a	PP Directional drilled 222 mm from 1202 m to 1251 mKb
22:45	00:00	1.25	10	a	PP Cumulative: MWD surveys as required

13. Foreman in Charge L. Brazel / P. Miller 220-9479

Weather Sunny -19 -12

Printed: 99-02-18 6:58:55 AM

SUNCOR INC. RESOURCES GROUP

DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 10

1. Date 99-02-16 Well Name Suncor Netja K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 1,117.00 (m) Operation Drill ahead 222mm build section Progress 32.00 (m)

Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 625.20 (m) KB Elev. 625.20 (m)

3.	Mud Type	WT	Vis.	W.L.	pH	PV	YP	Solids	Gels	Fill Cake	Polymer
	K2SO4 Visplex	1,155.0		9.7	10.20	16.00	23.50	9.5	15.0 / 16.0	1.0	
4.	Potassium Sulfat 9 SX	CAUSTIC 1 SX			FLOPLEX 8 SX			BENTONITE M1 20 SX			
5.	Bit No.	Size (mm)	Type	Serial No.	JOB	Out (m)	Drilled (m)	Hours	ROP (m/H)	Force/RPM	Cond.
	4	222.000	F10T	LT7093	8.7 8.7 9.5		12.00	2.75	4.36	15 / 90	
	3	222.200	EHP43A	LQ4592	8.7 8.7 9.5	1,105.00	565.00	63.50	8.90	18,000 / 80	3 3 I

6. Assembly: 222.00 Tri-Cone Bit, 171.00 Positive Displacement Motor, 162.00 Float Sub, 162.00 Muleshoe Sub, 2 161.00 Non-Mag Drill Collar, 160.00 Cross Over, 5 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 1,093.00/1,900/342.460 1,102.90/2,100/334.700 1,111.40/3,200/347.800 1,121.50/4,400/344.500

8.	S.P.M.	Size	Stroke	Pressure	Annular Velocities	
	90	152.0	254.0	6,200	D.P.	46.1 m/min D.C. 86.8 m/min
			254.0		R.S.P.P.	3,900 kPa @ 50 SPM

9. B.O.P. Check 99-02-16 Last Drill 99-02-13 Incident Last Rig Insp. 99-02-16

Personnel: Total 34 Rig 16 Service 15 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	5	Directional	2.5	Rig Service	.5	Reaming	0	Coring	0
Logging	13.75	Cond. Mgr	.75	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	0	Survey	.5	BOP Drill	0	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	1	Cementing	0	Rig up/down	0	Others	0

11. Cost Day \$ 57,926 Cumulative \$ 1,050,432 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:15	0.25	7		PP	Rig service. Function test upper pipe rams
00:15	02:30	2.25	2	a	PP	Drill 222 mm from 1085 m to 1105 mKb
02:30	03:15	0.75	5	a	PP	Circulate well bore clean
03:15	11:00	7.75	6	j	PP	Trip out to pick up directional tools. Back reamed out from 950 mKb to 500 mKb. Taber blade stabilizer was balled up with filter cake.
11:00	13:30	2.50	20	a	PP	Pick up directional tools and surface test same
13:30	13:45	0.25	7		PP	Rig service. Function test blind rams
13:45	16:15	2.50	6	j	PP	Tripped in with directional tools to 565 mKb. Function tested MWD.
16:15	17:15	1.00	9		PP	Slipped and cut 20 m of drilling line
17:15	20:45	3.50	6	j	PP	Trip in with directional tools. Reamed a small bridge at 655 mKb. Checked directional survey at 792 mKb. 3 m of fill on bottom.
20:45	23:30	2.75	2	a	PP	Directional drill 222mm from 1105 m to 1117 mKb
23:30	00:00	0.50	10	e	PP	Cumulative MWD surveys

13. Foreman in Charge L. Brazel / P. Miller 220-9479

Weather Sunny -19 -12

Printed: 99-02-17 8:11:37 AM

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

Drilling Report At Midnight

D.F.S. 9

1. Date 99-02-16 Well Name Suncor Netta K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58
 2. Depth 1,085.00 (m) Operation Drill 222 mm at 1085 mKb Progress 190.00 (m)
 Ground Elevation 618.40 (m) KB to GL 8.80 (m) KB to CF 825.20 (m) KB Elev. 625.20 (m)

3. Mud Type	WT	Via	W/L	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2904 Visplex	1,160.0		8.0	10.80	15.00	19.50	9.5	15.0 / 16.0	1.0	
Potassium Sulfat 113 SX	CAUSTIC 1 SX		VISPLEX 119 SX		FLOPLEX 69 SX		SAWDUST 20 SX			
5. Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
3	222.200	EXP43A	LQ4592	8.7 8.7 9.5		545.00	61.25	8.90	18,000 / 80	

6. Assembly: 222.20 Tri-Cone Bit, 173.00 Bit Sub, 171.00 Shock Sub - String, 185.00 Cross Over, 1 157.00 Non-Mag Drill Collar, 171.00 Cross Over, 1 178.00 Drill Collar, 215.00 Taper Blade Stabilizer, 4 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 991.00/1,500/322.000

8. S.P.M.	Size	Stroke	Pressure	Annular Velocities
90	152.4	254.0	10,200	D.P. 34.5 m/min D.C. 64.8 m/min
		254.0		R.S.P.P. kPa @ SPM

9. B.O.P. Check 99-02-15 Last Drill 99-02-13 Incident Last Rig Insp. 99-02-15
 Personnel: Total 34 Rig 16 Service 15 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	21.5	Directional	0	Rig Service	.5	Reaming	1.5	Coring	0
Tripping	0	Cond. Mud	0	Rig Repairs	.25	Run Casing	0	W.O.C.	0
Circulate	0	Survey	.25	BOP Drill	0	O.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	0

11. Cost Day \$ 49,551 Cumulative \$ 992,506 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:15	0.25	7		PP	Rig serviced. Function tested annular and checked RSPP
00:15	00:30	0.25	8	a	R	Repairs to mud line
00:30	08:15	7.75	2	a	PP	Drilled 222 mm from 895 m to 972 mKb
08:15	09:45	1.50	3	a	PU	Cumulative: Work tight hole on connections
09:45	10:00	0.25	7		PP	Rig serviced. Function tested bottom pipe rams
10:00	23:45	13.75	2	a	PP	Drilled 222 mm from 972 m to 1085 mKb
23:45	00:00	0.25	10	b	PP	Surveys as required

13. Foreman in Charge L.Brazel / P. Miller 220-9479

Weather Sunny -22 -10

Printed: 99-02-16 8:18:02 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 8

1. Date 99-02-14 Well Name Suncor Netta K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 895.00 (m) Operation Drilling Ahead 222mm Hole @ 895m Progress 170.00 (m)

Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 625.20 (m) KB Elev. 625.20 (m)

3. Mud Type K2SO4 Visplex WT 1,160.0 Vls 11.8 pH 10.00 PV 17.00 YP 27.00 Solids 9.5 Gels 17.0 / 18.0 Filtr Cake 1.0 Polymer

4. Potassium Sulfat 101 sx CAUSTIC 1 SX VISPLEX 11 2 SX FLOPLEX 33 SX

5. Bit No 3 Size (mm) 222.200 Type ENP43A Serial No LQ4592 Jets 8.7 8.7 9.5 Out (m) 355.00 Drilled (m) 39.75 Hours 8.93 ROP (m/Hr) 16,000 / 80 Force/RPM Cond

6. Assembly: 222.20 Tri-Cone Bit, 173.00 Bit Sub, 171.00 Shock Sub - String, 165.00 Cross Over, 1 157.00 Non-Mag Drill Collar, 171.00 Cross Over, 1 178.00 Drill Collar, 215.00 Taper Blade Stabilizer, 4 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys: 792.00/1.750/274.000 878.00/1.250/322.000

8. S.P.M. 70 Size 152.4 Stroke 254.0 Pressure 7,700 Annular Velocities D.P. 34.5 m/min D.C. 64.8 m/min

R.S.P.P. kPa @ SPM

9. B.O.P. Check 99-02-13 Last Drill 99-02-13 Incident 99-02-14 Last Rig Insp. 99-02-14

Personnel: Total 34 Rig 16 Service 15 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	22	Directional	0	Rig Service	.5	Reaming	.5	Coring	0
Tripping	0	Cond. Mud	0	Rig Repairs	0	Run Casing	0	W.O.C.	0
Circulate	0	Survey	1	BOP Drill	0	D.S.T.	0	Finishing	0
Logging	0	Shp & Cut	0	Cementing	0	Rig up/down	0	Others	0

11. Cost Day \$ 33,287 Cumulative \$ 912,955 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	00:15	0.25	7		PP	Rig serviced. Function tested lower pipe rams
00:15	15:15	15.00	2	a	PP	Drill 222 mm hole from 725 m to 838 mKb
15:15	15:45	0.50	10	b	PP	Directional survey as required
15:45	16:00	0.25	7		PP	Rig serviced. Function tested upper pipe rams
16:00	23:00	7.00	2	a	PP	Drill 222 mm hole from 838 m to 895 mKb
23:00	23:30	0.50	10	b	PP	Directional survey as required
23:30	00:00	0.50	3	a	PU	Cumulative: Work tight hole on connections

13. Foreman In Charge L. Brazel / P. Miller 220-9479

Weather Sunny -22 -10

FEB-17-1999 09:10

403 269 6203

98%

Printed: 99-02-18 8:15:43 AM

P.04

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 7

1. Date 99-02-13 Well Name Suncor Netla K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58
2. Depth 725.00 (m) Operation Drill ahead 222mm hole. Progress 181.00 (m)
- Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 625.20 (m) KB Elev. 625.20 (m)
3. Mud Type X2S04 Visplex WL 1,140.0 Vls WL 8.5 pH 10.50 PV 16.00 YP 32.50 Solids 6.0 Gels 20.5 / 21.5 Filtr. Cake 1.0 Polymer
4. Potassium Sulfat 105 sk CAUSTIC 1 SX SODA ASH 2 SX FLOPLEX 48 SX BICARBONATE 4 KG
5. Bit No. 3 Size (mm) 222.200 Type ENP43A Serial No. LQ4592 Jets 8.7 8.7 9.5 Out (m) Drilled (m) 185.00 Hours 17.75 ROP (m/Hr) 10.42 Force/RPM 16,000 / 80 Cond.
6. Assembly: 222.20 Tri-Cone Bit, 173.00 Bit Sub, 171.00 Shock Sub - String, 185.00 Cross Over, 1 157.00 Non-Mag Drill Collar, 171.00 Cross Over, 1 178.00 Drill Collar, 216.00 Taper Blade Stabilizer, 4 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe
7. Surveys: 591.00/0.700/307.000 677.00/1.000/324.000

S.P.M.	Size	Stroke	Pressure	Annular Velocities
70	152.0	254.0	8,000	D.P. 34.5 m/min D.C. 64.8 m/min
		254.0		R.S.P.P. 5,200 kPa @ 45 SPM

8. B.O.P. Check 99-02-13 Last Drill 99-02-13 Incident Last Rig Insp. 99-02-13
- Personnel: Total 30 Rig 16 Service 11 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	17.25	Directional	0	Rig Service	.75	Reaming	.5	Coring	0
Thopping	0	Cond. Mud	2	Rig Repairs	1	Run Casing	0	W.O.C.	0
Circulate	0	Survey	.5	BOP Drill	1.5	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	0

11. Cost: Day \$ 43,844 Cumulative \$ 909,668 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	01:30	1.50	15	b	PP	Pressure test mud lines. Repairs to two four inch mud line valves.
01:30	03:30	2.00	5	a	PP	Displace cement water to drill mud. Circulate and condition mud prior to drill ahead.
03:30	12:30	9.00	2	a	PP	Drill 222 mm from 544 kb to 638 mKb
12:30	12:45	0.25	7		PP	Rig service. Function test hydril
12:45	13:00	0.25	10	b	PP	Survey as required
13:00	14:00	1.00	8	a	PV	Repairs to pipe screen
14:00	14:45	0.75	2	a	PP	Drill 222 mm from 638 kb to 648 mkb
14:45	15:15	0.50	28		PP	BOP drill. Well secure in 1 minute
15:15	16:45	1.50	2	a	PP	Drill 222 mm from 648 kb to 667 mkb
16:45	17:15	0.50	7		PP	Rig serviced. Function tested remote choke
17:15	23:15	6.00	2	a	PP	Drill 222 mm from 667 kb to 725 mkb
23:15	23:45	0.50	3	a	PP	Cum. work tight hole on connections
23:45	00:00	0.25	10	b	PP	Surveys as required

13. Foreman in Charge L.Brazel / P. Miller 220-9479

Weather Lt. Snow -25, -16

Printed: 99-02-18 8:15:25 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 8

1. Date 99-02-12 Well Name Suncor Netla K-77-60-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 544.00 (m) Operation Drill 222mm Hole Progress 4.00 (m)

Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CP 625.20 (m) KB Elev. 625.20 (m)

3.	Mud Type	WT	Vis	W/L	pH	PV	YP	Solids	Gels	Fill Cake	Polymer		
	K2SO4 Visplex	1,095.0		11.5	8.50	6.00	23.50	6.0	23.5 / 35.0	1.0			
4.	BICARBONATE 2 KG												
5.	Bit No.	Size (mm)	Type	Serial No.	Jets			Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.
	3	222.200	EHP13A	LQ4592	8.7	8.7	9.5		4.00	0.50	8.00	8,000 / 70	

6. Assembly: 222.20 Tri-Cone Bit, 173.00 Bit Sub, 171.00 Shock Sub - String, 165.00 Cross Over, 1 157.00 Non-Mag Drill Collar, 171.00 Cross Over, 1 178.00 Drill Collar, 215.00 Taper Blade Stabilizer, 4 178.00 Drill Collar, 174.00 Drilling Jar, 12 178.00 Drill Collar, 171.00 Cross Over, 9 127.00 Heavy Weight Drill Pipe

7. Surveys:

S.P.M.	Size	Stroke	Pressure	Annular Velocities			
80	152.0	254.0	9,100	D.P.	32.7	m/min	D.C.
		254.0		R.S.P.P		kPa	@

9. B.O.P. Check 99-02-12 Last Drill Incident Last Rig Insp. 99-02-12
Personnel: Total 31 Rig 15 Service 13 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	0	Reaming	0	Coring	0
Tripping	4.5	Cond. Mud	0	Rig Repairs	2	Run Casing	0	W.O.C	0
Circulate	0	Survey	0	BOP Drill	15.75	D.S.T	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	.25

11. Cost Day \$ 44,879 Cumulative \$ 865,824 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	05:30	5.50	14	b	PP	Nipple up BOP stack, sweep line and related components.
05:30	15:00	9.50	15	a	PP	Pressure test BOP stack and related components to 1400 KPa & 14000 KPa 10 min each test, with Inland Pressure testers. All tests OK.
15:00	17:00	2.00	8	a	NU	Replace and repair Washed valves on pump manifold.
17:00	21:30	4.50	6	j	PP	Pick up and make up BHA for drill out & drill to KOP
21:30	23:00	1.50	28		PP	Drill out Cement, Float collar shoe & drill 5m new hole for leak off test
23:00	23:45	0.75	15	c	PP	Run leak off test with Inland Pressure testers, Leak off Gradient at 20 KPa/m

13. Foreman in Charge L. Brazel / P. Miller 220-9479

Weather Lt. Snow -25,-16

Printed: 99-02-16 8:15:07 AM

SUNCOR INC. RESOURCES GROUP DAILY DRILLING REPORT

Drilling Report At Midnight

D.F.S. 5

1. Date 99-02-11 Well Name Suncor Netia K-77-80-50-122-30 Contractor / Rig AKITA DRILLING LTD./58

2. Depth 540.00 (m) Operation Nipple up 348 mm stack and lines Progress (m)

Ground Elevation 618.40 (m) KB to GL 6.80 (m) KB to CF 625.20 (m) KB Elev. 625.20 (m)

3. Mud Type	WT	Vis	W/L	pH	PV	YP	Solids	Gels	Filt. Cake	Polymer
K2SO4 Visplex	1,095.0		11.5	8.50	6.00	23.50	6.0	23.5 / 35.0	1.0	
4. Bit No.	Size (mm)	Type	Serial No.	Jets	Out (m)	Drilled (m)	Hours	ROP (m/Hr)	Force/RPM	Cond.

6. Assembly:

7. Surveys:

8. S.P.M.	Size	Stroke	Pressure	Annular Velocities
		254.0		D.P. 32.7 m/min D.C. 58.9 m/min
		254.0		R.S.P.P. kPa @ SPM

9. B.O.P. Check 99-02-09 Last Drill Incident Last Rig Insp 99-02-11

Personnel: Total 31 Rig 15 Service 13 Suncor 3 Other 0

10. Time Breakdowns - Hours

Drilling	0	Directional	0	Rig Service	0	Reaming	0	Coring	0
Tripping	0	Cond. Mud	0	Rig Repair	0	Run Casing	0	W.O.C.	4
Circulate	0	Survey	0	BOP Drill	20	D.S.T.	0	Fishing	0
Logging	0	Slip & Cut	0	Cementing	0	Rig up/down	0	Others	0

11. Cost Day \$ 36,216 Cumulative \$ 820,945 AFE \$ 2,042,430 AFE # A9811680K77

12. Operation Summary

FROM	TO	HOURS	CODE	SUB	C	OPERATIONS
00:00	04:00	4.00	13		PP	Nipple down diverter. Install Stream Flo FMC C-29 Screw on 279 mm X 244.5 mm LCT, 34mpa with two 52 mm flanged 34 mpa outlets. Torque bowl to Max.
04:00	00:00	20.00	14	b	PP	Install and nipple up 346 mm BOP components and lines with rig crews and nipple up crew.

13. Foreman in Charge L. Brasel / P. Miller 220-9479Weather Cold -35 -20

Printed: 99-02-16 8:17:06 AM