

**SUNCOR INC. RESOURCES GROUP**  
**DAILY COMPLETION and/or WORKOVER REPORT**

PAGE # 1

WELL NAME: Suncor Netla K-77-60-50-122-30

DATE: 99-03-16

REPORT No.: 4

LOCATION: 300/K- 77 Lat: 60° 50' Long: 122° 30'

## PURPOSE OF JOB: COMPLETION

## FLUID SUMMARY (M3)

AFE NO: A9911260K77

AFE TOTAL: 515,000

DAILY COST: 73,232

CUM COST: 480,824

CONTRACTOR / RIG BONUS WELL SERVICING / 235

SUPERVISOR: Valin, Petroski 220-9479

WEATHER: Clear, -5 °C

TOTAL USED

IN TANKS

LEFT TO RECOVER

OIL:	0 (m³)	0.00 (m³)	0.00 (m³)
WATER:	24.12 (m³)	0.00 (m³)	24.12 (m³)
OTHER:	20 (m³)	0.00 (m³)	20.00 (m³)

FORMATION: SLAVE POINT

PERF INTERVAL (mKB): 1,989 - 2,118.00 (m)

KB: 625.20 CF: 618.75

KB to CF: 6.45

TD: 2,118.00

PBTD:

RODS LANDED @:

m JTS:

PROD. CASING:

mm WT: kg/m

CASING LANDED @:

m JTS:

TUBING:

mm WT: kg/m

TUBING LANDED @:

m JTS:

PACKER @:

m ANCHOR @:

m

DUAL PACKER @:

m SCR:

mm JTS:

PSN @:

m PL:

mm JTS:

OPERATION SUMMARY: Rigged out Bonus # 235 and released from location. Ran bottom hole recorders and set on Nipple stop in "QZN" profile. Lined up equipment to perform fall off test as directed by Calgary.

FROM	TO	HRS	CODE	C	OPERATIONS
00:00	10:30	10.50	27	PP	Continued to stop-cock the well. At 10:30 am shut in well and take buildups until Northland wireline picker arrives. Total Load used in stimulation ====== 127.86 m3 Total load recover ====== 83.74 m3 Total load left to recover ====== 44.12 m3 Final gas rate ====== 5.87 Em3 Flow temp ====== 10 °C Final Flowing tubing pressure ====== 160 Kpa Sal = 220,000 , Ph = 6 , Choke = 50.8 . 2 - high pressure gas samples taken # 19573 & # 1051, 2 stock tank fluid sample were also taken with results to Alan Young , Dave Herrra.
10:30	15:00	4.50	11	NP	Rigged out derrick and released rig & equipment from location.
15:00	19:00	4.00	11	PP	Rigged out Entest Corp. production testing equipment - prepared to move. Rigged in Northland Wireline complete with full lubricator. RIH with 69.85mm gauge ring and

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LOCATION: 300/K- 77 Lat: 60° 50' Long: 122° 30'

FROM	TO	HRS	CODE	C	OPERATIONS
15:00	19:00	4.00	11	PP	tagged "QXN" profile 1986 mCF. RIH & set a 69.85mm "X" lock in the "QXN" @ 1986 mCF. RIH & unlatched tandem Starburst Quartz on the "X" lock c/w a 76.2mm hold down & a 50.8mm "J" head. POOH & rigged out wireline.
19:00	00:00	5.00	1	PP	Stacked rig loads w/ loader. Loaded & hauled out 30.56m <sup>3</sup> of recovered fluid, & the combination shack.

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WELL NAME: Suncor Netla K-77-60-50-122-30

DATE: 99-03-15

REPORT No.: 3

LOCATION: 300/K-77 Lat: 60° 50' Long: 122° 30'

PURPOSE OF JOB: COMPLETION		FLUID SUMMARY (M3)		
		TOTAL USED	IN TANKS	LEFT TO RECOVER
AFE NO:	A9911260K77			
AFE TOTAL:	515,000			
DAILY COST:	46,744			
CUM COST:	435,123			
CONTRACTOR / RIGBONUS WELL SERVICING / 235				
SUPERVISOR:	Valin, Petroski 220-9479			
WEATHER:	Clear, -6 °C			
FORMATION: SLAVE POINT				
PERF INTERVAL (mKB):	1,989 - 2,118.00 (m)			
KB: 625.20	CF: 618.75			
KB to CF: 6.45				
TD: 2,118.00	PBTD:			
RODS LANDED @:	m JTS:			

PROD. CASING:	mm WT:	kg/m
CASING LANDED @:	m	JTS:
TUBING:	mm WT:	kg/m
TUBING LANDED @:	m	JTS:
PACKER @:	m ANCHOR @:	m
DUAL PACKER @:	m SCR:	mm JTS:
PSN @:	m PL:	mm JTS:

OPERATION SUMMARY: Continued to flow clean-up after stimulating the Slave Point. Flow rates dropped, & the tubing loaded w/ fluid. Began to Stop-cock the well @ 22:00 hrs. 47.58m<sup>3</sup> of load fluid to recover @ midnight.

FROM	TO	HRS	CODE	C	OPERATIONS
00:00	07:00	7.00	27	PP	Continued to flow well on clean up after Acid FoamMat stimulation. Flow had to be choked back due to extreme amounts of foam in returns (to avoid carrying over the flare stack). Starting pressure at midnight 14,000 Kpa on tbg and 4700 Kpa casing. Had to increase choke due to loading and decrease choke to control carry over of foam at the flare stack.
07:00	19:00	12.00	27	PP	Continued to flow the well - drew down as hard as foam production would allow. Rigged out the service rig & support equipment. Did not lay over the derrick - in case swabbing operations are required.
19:00	22:00	3.00	27	PP	Continued to flow clean-up. Pressures, rates, & fluid production fell off, & the tubing began to load w/ fluid. 22:00 hrs: FTP = 320 kPa Choke = 50.8mm Static pressure = 28 kPa Fluid produced (1 hr) = 0.83 m <sup>3</sup> pH = 6, salinity = 200,000 ppm Total initial load following FoamMAT = 127.86 m <sup>3</sup> Fluid recovery to date = 80.28 m <sup>3</sup> Remaining load fluid = 47.58 m <sup>3</sup>

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WELL NAME: Suncor Netla K-77-60-50-122-30

DATE: 99-03-15

REPORT No.: 3

LOCATION: 300/K- 77 Lat: 60° 50' Long: 122° 30'

FROM	TO	HRS	CODE	C	OPERATIONS
19:00	22:00	3.00	27	PP	Gas Rate = 12.36 e3m3/day Gas flared = 9.56 e3m3 H2S content = 30 ppm (chemical tube detector) Began to stop-cock the well to increase fluid recovery. Recorded build-ups: 22:05 800 kPa 22:10 1200 kPa 22:15 1250 kPa 22:30 1400 kPa 22:45 1650 kPa 23:00 1850 kPa 23:15 2000 kPa 23:30 2200 kPa 23:45 2300 kPa 00:00 2400 kPa
22:00	00:00	2.00	27	NU	

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WELL NAME: Suncor Netla K-77-60-50-122-30

DATE: 99-03-14

REPORT No.: 2

LOCATION: 300/K-77 Lat: 60° 50' Long: 122° 30'

PURPOSE OF JOB: COMPLETION		FLUID SUMMARY (M3)		
		TOTAL USED	IN TANKS	LEFT TO RECOVER
AFE NO:	A9911260K77			
AFE TOTAL:	515,000			
DAILY COST:	184,971			
CUM COST:	388,379			
CONTRACTOR / RIGBONUS WELL SERVICING / 235				
SUPERVISOR:	Valin, Petroski 220-9479			
WEATHER:	Clear, -8°C			
FORMATION: SLAVE POINT		PROD. Casing:	mm WT:	kg/m
PERF INTERVAL (mKB):	1,989 - 2,118.00 (m)	Casing landed @:	m	JTS:
KB: 625.20	CF: 618.75	Tubing:	mm WT:	kg/m
KB to CF: 6.45		Tubing landed @:	m	JTS:
TD: 2,118.00	PBTD:	Packer @:	m Anchor @:	m
RODS LANDED @:	m JTS:	Dual Packer @:	m SCR:	mm JTS:
		PSN @:	m PL:	mm JTS:
OPERATION SUMMARY: Suspend recorders on slickline, POOH, conducted reverse gradient. Rigged in DS's FoamMAT treating equip. Stimulated the Slave Point w/ 55 m3 of 28% HCl, 70.41 m3 of surfactant. Prepared to flow C/U.				

FROM	TO	HRS	CODE	C	OPERATIONS
00:00	01:30	1.50	27	PP	<p>Continued to flow a brief pre-stimulation clean-up. Drew the FTP down to 500 kPa on a 50.8mm choke in an attempt to unload fluid. In 1.5 hrs of flow:</p> <p>Recovered no water / drilling mud</p> <p>Total initial load fluid = 4.82 m3</p> <p>Total remaining load fluid = 2.45 m3</p> <p>H2S content = 90 ppm</p> <p>Gas Rate = 52.00 e3m3/day</p> <p>Gas flared = 12.15 e3m3</p> <p>Shut in the well @ 01:30 hrs, recorded build-ups for 15 minutes while rigging in wireline:</p> <p>01:31 1450 kPa 01:32 1900 kPa 01:33 2400 kPa 01:34 2700 kPa 01:35 3000 kPa 01:40 4150 kPa 01:45 5300 kPa</p>
01:30	07:00	5.50	11	PP	<p>Rigged in Northland Wireline. Pressure tested the lubricator w/ well gas to 6500 kPa - good test. RIH w/ tandem Starburst Quartz Recorders. Suspended the recorders @ 2046.2 mCF. Monitored surface pressures w/ an electronic deadweight gauge. At 05:00 hrs POOH &amp; conducted a reverse</p>

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WELL NAME: Suncor Netla K-77-60-50-122-30

DATE: 99-03-14

REPORT No.: 2

LOCATION: 300/K- 77 Lat: 60° 50' Long: 122° 30'

FROM	TO	HRS	CODE	C	OPERATIONS
01:30	07:00	5.50	11	PP	<p>static gradient. BHP = 11,534.5 kPa , BHT = 100.4 oC.</p> <p>Note: the BHP was increasing on average 10 kPa / minute.</p>
08:00	09:00	1.00	1	PP	Rig in Dowell Schlumberger as per Suncor & AEUB specs to perform FoamMat stimulation with 55m3 28% HCl
09:00	09:30	0.50	28	PP	Hold prejob safety meeting with all personal on location and discuss daily safety and stimulation procedures.
09:30	10:00	0.50	28	PP	Pressure test treating lines and testing line to 21,000 Kpa, Small leak on the hammer union at wellhead repair and retest treating line to 45,000 Kpa held good.
10:00	11:20	1.33	26	PP	<p>Conducted Dowell Schlumberger's FoamMAT acid treatment:</p> <p>Pumped a 28% HCl acid spearhead followed by 9.03 m3 of fresh water. Achieved breakdown w/ 10 m3 of total fluid away @ 17.26 MPa. Stopped pumping &amp; allowed the acid to soak for 20 minutes - tubing went on a vacuum.</p>
11:20	22:40	11.33	26	PP	<p>Pumped a 7.0m3 pre-flush of Surfactant solution w/ no N2, &amp; began staging the FoamMAT acid treatment. Pumped 55.0m3 of 28% HCl, &amp; 70.41m3 of 65Q Foamed fresh water in 22 stages. The net pressure trend was becoming flat on stage # 10, and began to decrease on stage # 14. Increased the Foam stage volumes as listed:</p> <ul style="list-style-type: none"> <li># 10 - 300 litres</li> <li># 11 - 15, 200 litres</li> <li># 16 - 580 litres</li> <li># 17 - 520 litres</li> <li># 18 - 500 litres</li> <li># 19 - 250 litres</li> <li># 20 - 500 litres</li> </ul> <p>Regained a positive trend on the final stages. Ran out of acid on the final stage - pumped 200 litres, 800 litres programmed. Pumped an 1150 SCM N2 flush as the final segment of stage # 22.</p> <p>***Were unable to pump step # 8 of the program, which was a flush w/ 5.0 m3 of acid.***</p> <p>Followed the last stage w/ a final 12.0 m3 foamed flush. Pumped an overflush of 2000 SCM's of N2 @ 160 SCM/min. ISIP = 30,070 kPa, maximum treating pressure = 30,920 kPa, average = 20,000 kPa.</p> <p>Pumped a total of 70.41 m3 of surfactant solution (F78 / F75 &amp; fresh water) &amp; 55.0 m3 of acid + additives. Total load fluid to recover after the</p>
22:40	23:10	0.50	26	PP	

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LOCATION: 300/K- 77 Lat: 60° 50' Long: 122° 30'

FROM	TO	HRS	CODE	C	OPERATIONS
22:40	23:10	0.50	26	PP	treatment = 127.86 m3 (55.0 m3 of acid, 70.41 m3 of fresh water, & 2.45m3 of water / mud).
23:10	23:30	0.33	26	PP	Rigged out Dowell Schlumberger's equipment.
23:30	00:00	0.50	27	NP	Pressure tested the test iron w/ N2 from the wellbore. Opened up to the testors choke, 28,800 kPa - found a leaking union. Shut in & repaired. Re-tested line - good test.

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WELL NAME: Suncor Netla K-77-60-50-122-30

DATE: 99-03-13

REPORT No.: 1

LOCATION: 300/K-77 Lat: 60° 50' Long: 122° 30'

PURPOSE OF JOB: COMPLETION		FLUID SUMMARY (M3)		
		TOTAL USED	IN TANKS	LEFT TO RECOVER
AFE NO:	A9911260K77			
AFE TOTAL:	515,000			
DAILY COST:	203,407			
CUM COST:	203,407			
CONTRACTOR / RIG BONUS WELL SERVICING /	235			
SUPERVISOR:	Valin, Petroski 220-9479			
WEATHER:	Clear, -8°C			
FORMATION: SLAVE POINT		PROD. Casing:	mm WT:	kg/m
PERF INTERVAL (mKB):	1,989 - 2,118.00 (m)	CASING LANDED @:	m	JTS:
KB: 625.20	CF: 618.75	TUBING:	mm WT:	kg/m
KB to CF: 6.45		TUBING LANDED @:	m	JTS:
TD: 2,118.00	PBTD:	PACKER @:	m ANCHOR @:	m
RODS LANDED @:	m JTS:	DUAL PACKER @:	m SCR:	mm JTS:
		PSN @:	m PL:	mm JTS:

OPERATION SUMMARY: RIH w/ G-Ring & JB to 1987 mKB. RIH & WL set Baker FB-1 Permanent pkr @ 1982.0 mKB. RIH w/ seal assembly, on/off, & 89mm J-55 EUE tbg. Pickled tbg. N/U wihd. Swabbed & flowed a brief clean-up.

FROM	TO	HRS	CODE	C	OPERATIONS
00:00	02:30	2.50	11	PP	RIH w/ a 153mm Gauge Ring & junk basket on Schlumberger's electric line to 1987 mKB, POOH. Held a safety / operations meeting w/ all on site personnel. Ensured all two-way radios & mobile telephones were shut off.
02:30	02:45	0.25	28	PP	RIH, correlated into position, & set a Baker FB-1 87-40 Permanent Retainer Packer @ 1982.0 mKB COE. Used a slow-burn charge. Pulled over 200 kg's to pull free of the packer after setting. POOH & rigged out Schlumberger.
02:45	06:15	3.50	11	PP	Pressure tested the casing & packer to 10,000 kPa for 15 minutes - solid test.
06:15	06:45	0.50	15	PP	Changed V-door to level stairs.
06:45	07:00	0.25	28	PP	Make up BHA assembly as follows : 1-E-22 Anchor seal assembly complete with on/off connector, 1-NSCT x VAM L-80 crossover, 1-NSCT x EUE L-80 crossover sub, 1-joint 88.9 mm J-55 tubing, 1-GX profile nipple 69.85mm, 204 joint 88.9mm J-55, 1- 88.9mm pup joint 1.95m, 1-joint 88.9mm tubing 9.66m.
07:00	10:30	3.50	6	PP	Rig in Alliance trucking to pickel tubing with 2m3 15% HCl acid and chase acid with 7 m3 fresh water at a rate of 250 Litres/min backwash acid to surface with 28.4m3 inhibited fluid divert acid returns to Alliance tank truck and ship off
10:30	14:30	4.00	28	PP	

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LOCATION: 300/K-77 Lat: 60° 50' Long: 122° 30'

FROM	TO	HRS	CODE	C	OPERATIONS
10:30	14:30	4.00	28	PP	of location for disposal.
14:30	16:00	1.50	1	PP	Latch onto baker packer, pull test 8000 daN's tension land tubing hanger with 6500 daN's compression on packer. Pressure test annulas to 21,000 Kpa, held 100% for 15 mins. Rig out rig floor and tubing handling equipment. Inspect tubing hanger seals both good, Install ABB Vetco wellhead assembly. Rig in Baker pump and pressure test seals on extended neck tubing hanger to 21,000 Kpa
16:00	19:00	3.00	25	PP	Rigged in the rig floor & swabbing equipment. Pulled 6 swabs & recovered 5.1 m3.
19:00	19:15	0.25	25	PP	Tour Change. Held a safety / operations meeting w/ all on site personnel. Rig & lease walkaround inspection.
19:15	21:00	1.75	25	PP	Pulled 5 swabs & recovered 3.12 m3. Total recovery in 11 swabs = 8.22 m3. After pulling the 11th swab, the well began to flow. Shut in the well @ 21:00 hrs.
21:00	21:30	0.50	27	PP	R & R build-up pressures while preparing to flow: 21:05 11,000 kPa 21:10 11,600 kPa 21:15 11,900 kPa 21:20 12,200 kPa 21:25 12,300 kPa 21:30 12,400 kPa Note: Held a brief safety meeting w/ all personnel. Ensured all personnel were aware of the location of the ESD valves & the potential of H2S.
21:30	00:00	2.50	27	PP	Opened the well to flow a brief clean-up. Drew the FTP down to 600 kPa on a 50.8mm choke in an attempt to unload fluid. In 2.5 hrs of flow: Recovered 2.37 m3 of water / drilling mud Total initial load fluid = 4.82 m3 Total remaining load fluid = 2.45 m3 H2S content = 90 ppm Gas Rate = 71.95 e3m3/day Gas flared = 8.65 e3m3  Note: Moved in & spotted Northland Wireline - prepared to RIH w/ recorders. Moved in & spotted Dowell Schlumberger's FoamMAT equipment & Firemaster's shower unit.

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