



PCI Canterra Tweed M-47

Daily Completion and Workover

Report # 1.0, Report Date: 9/14/2013

UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type	Project Name
			1476	N.W.T		

Drilling KB Elevation (m)	Ground Elevation (m)	KB-Grd (m)	KB-CF (m)	KB-TH (m)	PBTD (All) (mKB)	Total Depth (All) (mKB)
435.22	429.10	6.12	429.10			

Primary Job Type Site Inspections	Job Start Date 9/14/2013	Job End Date 9/20/2013
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Objective Three year inspection of leases and wellbores.	Rig Number non-rig operations	Rig Type	Rig Start Date	Rig Release Date
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AFE Number 14-01085-AC-1T	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 44,817.00	Cum Field Est To Date (Cost) 44,817.00	Personnel Total Hours (hr) 33.00	Cum Pers Reg Hr (hr) 33.00
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Morning Readings	Temperature (°C) 14	Road Condition	Tubing Pressure (kPa)	Casing Pressure (kPa)
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Weather sunny				
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Hole Section Summary				
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24 Hr Operations Summary Traveled from Edmonton to Norman Wells. Flew equipment to location.				
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Next 24 Hr Forecast				
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Fly to location; perform well / lease inspection and casing integrity test.				
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Fuel Used (m³)	Water Used (m³)			
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Daily Contacts	Job Contact	Mobile		
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Barvir, Bob, Completions	403-540-4506			
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Pollard, Terry, Supervisor	780-361-5962			
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Personnel Log				
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Company	Head count	Total Working Time (hr)	
Terry Pollard Consulting Inc	1	11.00	

Company	Head count	Total Working Time (hr)	
NEW VENDOR	1	11.00	

Company	Head count	Total Working Time (hr)	
Stream-Flo Industries Ltd	1	11.00	

Leading Indicators				
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Company	# of Leading Indicators	Comment		
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Time Log				
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Start Time	End Time	Dur (hr)	Code 2	Ops Category	Com
06:30	17:30	11.00	Safety Meeting		2013-09-05 Calgary office notified NEB of planned work and commencement time. 2013-09-14 Travelled from Edmonton to Norman Wells with Stream-Flo and Logistics personnel. Mobilized and shipped pressure pump; tools; diesel fuel and water from Canadian Helicopters base to location.

Gas Volumes				
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Type	Zone	Volume (E3m³)	Duration (hr)
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Report Fluids Summary				
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Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)	Non-recov (m³)	Cum Non-recov (m³)
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Daily Completion and Workover

Report # 2.0, Report Date: 9/15/2013

PCI Canterra Tweed M-47

UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type	Project Name
			1476	N.W.T		

Drilling KB Elevation (m) 435.22	Ground Elevation (m) 429.10	KB-Grd (m) 6.12	KB-CF (m) 429.10	KB-TH (m)	PBTD (All) (mKB)	Total Depth (All) (mKB)
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Primary Job Type Site Inspections	Job Start Date 9/14/2013	Job End Date 9/20/2013
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Objective Three year inspection of leases and wellbores.	Rig Number non-rig operations	Rig Type	Rig Start Date	Rig Release Date
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AFE Number 14-01085-AC-1T	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 7,675.00	Cum Field Est To Date (Cost) 52,492.00	Personnel Total Hours (hr) 9.00	Cum Pers Reg Hr (hr) 42.00
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Morning Readings	Temperature (°C) 9	Road Condition	Tubing Pressure (kPa)	Casing Pressure (kPa)
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Weather light rain				
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Hole Section Summary				
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24 Hr Operations Summary Flew 40 nautical miles from Norman Wells base and observed heavy fog. Returned to Norman Wells base.				
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Next 24 Hr Forecast Wait on weather. Fly to location; perform well / lease inspection and casing integrity test.				
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Fuel Used (m³)	Water Used (m³)
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Daily Contacts	Job Contact	Mobile
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Barvir, Bob, Completions	403-540-4506
Pollard, Terry, Supervisor	780-361-5962

Personnel Log				
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Company Terry Pollard Consulting Inc	Head count 1	Total Working Time (hr) 3.00
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Company *NEW VENDOR*	Head count 1	Total Working Time (hr) 3.00
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Company Stream-Flo Industries Ltd	Head count 1	Total Working Time (hr) 3.00
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Leading Indicators				
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Company	# of Leading Indicators	Comment
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Time Log				
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Start Time	End Time	Dur (hr)	Code 2	Ops Category	Com
08:00	09:00	1.00	Safety Meeting		Reviewed ERP and workover program with Suncor Logistics, Completions, Stream-Flo and Canadian Helicopters personnel. Discussed helicopter and flying hazards; high pressure and weather hazards with all personnel.
09:00	11:00	2.00	General Operations		Flew 40 nautical miles from Norman Wells base toward lease and observed heavy fog. Returned to Norman Wells base.

Gas Volumes	Zone	Volume (E3m³)	Duration (hr)
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Report Fluids Summary				
Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)
Report Fluids Summary				
Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)



PCI Canterra Tweed M-47

Daily Completion and Workover

Report # 3.0, Report Date: 9/16/2013

UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type	Project Name
Drilling KB Elevation (m) 435.22	Ground Elevation (m) 429.10	KB-Grd (m) 6.12	KB-CF (m) 429.10	KB-TH (m)	PBTD (All) (mKB)	Total Depth (All) (mKB)

Primary Job Type Site Inspections	Job Start Date 9/14/2013	Job End Date 9/20/2013
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Objective Three year inspection of leases and wellbores.

Contractor	Rig Number non-rig operations	Rig Type	Rig Start Date	Rig Release Date
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AFE Number 14-01085-AC-1T	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 6,045.00	Cum Field Est To Date (Cost) 58,537.00	Personnel Total Hours (hr) 9.00	Cum Pers Reg Hr (hr) 51.00
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Morning Readings

Weather fog / freezing rain	Temperature (°C) 3	Road Condition	Tubing Pressure (kPa)	Casing Pressure (kPa)
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Hole Section Summary

24 Hr Operations Summary Unable to fly to lease due to freezing rain conditions.

Next 24 Hr Forecast Wait on weather. Fly to location; perform well / lease inspection and casing integrity test.

Fuel Used (m³)	Water Used (m³)
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Daily Contacts

Job Contact	Mobile
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Barvir, Bob, Completions	403-540-4506
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Pollard, Terry, Supervisor	780-361-5962
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Personnel Log

Company Terry Pollard Consulting Inc	Head count 1	Total Working Time (hr) 3.00
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Company *NEW VENDOR*	Head count 1	Total Working Time (hr) 3.00
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Company Stream-Flo Industries Ltd	Head count 1	Total Working Time (hr) 3.00
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Leading Indicators

Company	# of Leading Indicators	Comment
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Time Log

Start Time	End Time	Dur (hr)	Code 2	Ops. Category	Com
07:30	10:30	3.00	Safety Meeting		Reviewed weather conditions with Suncor Logistics, Completions, Stream-Flo and Canadian Helicopters personnel observing freezing rain conditions around the leases making fly conditions unsafe.

Gas Volumes

Type	Zone	Volume (E3m³)	Duration (hr)
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Report Fluids Summary

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)	Non-recov (m³)	Cum Non-recov (m³)

UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type	Project Name
Drilling KB Elevation (m) 435.22	Ground Elevation (m) 429.10	KB-Grd (m) 6.12	KB-CF (m) 429.10	KB-TH (m)	PBTD (All) (mKB)	Total Depth (All) (mKB)

Primary Job Type Site Inspections	Job Start Date 9/14/2013	Job End Date 9/20/2013
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Objective Three year inspection of leases and wellbores.

Contractor	Rig Number non-rig operations	Rig Type	Rig Start Date	Rig Release Date	
AFE Number 14-01085-AC-1T	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 6,045.00	Cum Field Est To Date (Cost) 64,582.00	Personnel Total Hours (hr) 9.00	Cum Pers Reg Hr (hr) 60.00

Morning Readings				
Weather	Temperature (°C)	Road Condition	Tubing Pressure (kPa)	Casing Pressure (kPa)

Hole Section Summary

24 Hr Operations Summary Unable to fly due to weather conditions.
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Next 24 Hr Forecast Wait on weather. Fly to location; perform well / lease inspection and casing integrity test.

Fuel Used (m³)	Water Used (m³)
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Daily Contacts

Job Contact	Mobile
Barvir, Bob, Completions	403-540-4506
Pollard, Terry, Supervisor	780-361-5962

Personnel Log

Company Terry Pollard Consulting Inc	Head count 1	Total Working Time (hr) 3.00
Company *NEW VENDOR*	Head count 1	Total Working Time (hr) 3.00
Company Stream-Flo Industries Ltd	Head count 1	Total Working Time (hr) 3.00

Leading Indicators

Company	# of Leading Indicators	Comment
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Time Log

Start Time	End Time	Dur (hr)	Code 2	Ops Category	Com
10:00	13:00	3.00	Safety Meeting		Reviewed weather conditions with Suncor Logistics, Completions, Stream-Flo and Canadian Helicopters personnel observing snow / rain conditions around the leases making fly conditions unsafe.

Gas Volumes

Type	Zone	Volume (E3m³)	Duration (hr)
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Report Fluids Summary

Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)	Non-recov (m³)	Cum Non-recov (m³)
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Daily Completion and Workover

Report # 5.0, Report Date: 9/18/2013

UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type	Project Name
Drilling KB Elevation (m) 435.22	Ground Elevation (m) 429.10	KB-Grd (m) 6.12	KB-CF (m) 429.10	KB-TH (m)	PBTD (All) (mKB)	Total Depth (All) (mKB)

Primary Job Type Site Inspections	Job Start Date 9/14/2013	Job End Date 9/20/2013
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Objective
Three year inspection of leases and wellbores.

Contractor	Rig Number non-rig operations	Rig Type	Rig Start Date	Rig Release Date
AFE Number 14-01085-AC-1T	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 15,615.00	Cum Field Est To Date (Cost) 80,197.00	Personnel Total Hours (hr) 20.00

Weather cloudy	Temperature (°C) 3	Road Condition	Tubing Pressure (kPa)	Casing Pressure (kPa) 10,700	0
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Hole Section Summary
All communications in Norman Wells not working - only communications available is with Canadian Helicopters sat phone.

24 Hr Operations Summary
Flew to location; performed gas migration test around the wellhead; conducted 15 minute bubble test on the surface casing vent; greased and serviced all wellhead valves. Pressure tested the casing / packer to 1400 kPa; bled off pressure. Completed NEB "Well Inspection Report".

Next 24 Hr Forecast
Fly to location and return diesel fuel and equipment to Norman Wells.

Fuel Used (m³)	Water Used (m³)
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Daily Contacts	
Job Contact	Mobile

Barvir, Bob, Completions	403-540-4506
Pollard, Terry, Supervisor	780-361-5962

Personnel Log	
Company Terry Pollard Consulting Inc	Head count 1

Company *NEW VENDOR*	Head count 1	Total Working Time (hr) 5.00
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Company Stream-Flo Industries Ltd	Head count 1	Total Working Time (hr) 5.00
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Company Canadian Helicopters Limited	Head count 1	Total Working Time (hr) 5.00
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Leading Indicators	
Company	# of Leading Indicators

Comment

Time Log	
Start Time	End Time

Start Time	End Time	Dur (hr)	Code 2	Ops Category	Com
07:30	09:00	1.50	Safety Meeting		Reviewed ERP and work over program with Suncor Logistics, Completions, Stream-Flo and Canadian Helicopters personnel. Discussed helicopter and flying hazards; high pressure and weather hazards with all personnel.
09:00	12:30	3.50	General Operations		Flew personnel to location. Greased and serviced all wellhead valves. Pressure tested the 73 mm x 178 mm annulus with diesel to 1400 kPa for 15 minutes. Held good. Bled off the pressure. Conducted a 15 minute bubble test on the surface casing indicating no bubbles. Left the surface casing open. Performed a gas migration test around the wellbore as required indicating no gas migration. Completed NEB " Well Inspection Report".

Gas Volumes	
Type	Zone

Report Fluids Summary	
Fluid	To well (m³)

	Cum to Well (m³)	From well (m³)	Cum from Well (m³)	Non-recov (m³)	Cum Non-recov (m³)

Safety Checks, Indicators and Drills	
Time	Des

07:30		Type Safety Meetings(pre-tour/weekly) /Toolbox Talks	Com Discussed helicopter and flying hazards; high pressure and weather hazards
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PCI Canterra Tweed M-47

Daily Completion and Workover

Report # 6.0, Report Date: 9/19/2013

UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type	Project Name
Drilling KB Elevation (m) 435.22	Ground Elevation (m) 429.10	KB-Grd (m) 6.12	KB-CF (m) 429.10	KB-TH (m)	PBTD (All) (mKB)	Total Depth (All) (mKB)

Primary Job Type Site Inspections	Job Start Date 9/14/2013	Job End Date 9/20/2013
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Objective
Three year inspection of leases and wellbores.

Contractor	Rig Number non-rig operations	Rig Type	Rig Start Date	Rig Release Date
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AFE Number 14-01085-AC-1T	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 12,079.00	Cum Field Est To Date (Cost) 92,276.00	Personnel Total Hours (hr) 20.00	Cum Pers Reg Hr (hr) 100.00
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Morning Readings					
Weather overcast	Temperature (°C)	Road Condition 3	Tubing Pressure (kPa)	Casing Pressure (kPa)	

Hole Section Summary

24 Hr Operations Summary
Canadian Helicopters flew to location; picked up equipment; diesel and water drums and returned to Norman Wells.

Next 24 Hr Forecast

Return to Edmonton base.

Fuel Used (m³)	Water Used (m³)
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Daily Contacts	
Job Contact	Mobile

Barvir, Bob, Completions	403-540-4506
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Pollard, Terry, Supervisor	780-361-5962
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Personnel Log					
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Company Terry Pollard Consulting Inc	Head count 1	Total Working Time (hr) 5.00
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Company *NEW VENDOR*	Head count 1	Total Working Time (hr) 5.00
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Company Stream-Flo Industries Ltd	Head count 1	Total Working Time (hr) 5.00
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Company Canadian Helicopters Limited	Head count 1	Total Working Time (hr) 5.00
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Leading Indicators					
Company	# of Leading Indicators	Comment			

Time Log					
Start Time	End Time	Dur (hr)	Code 2	Ops Category	Comments

08:00	08:30	0.50	Safety Meeting		Held safety meeting with Canadian Helicopters; Stream Flo and Suncor personnel discussing weather, slinging equipment and flying hazards.
08:30	15:30	7.00	General Operations		Wait on weather.
15:30	19:00	3.50	General Operations		Canadian Helicopters flew to location; placed equipment into slings and returned equipment to Norman Wells base.

Type	Zone	Volume (E3m³)	Duration (hr)

Report Fluids Summary						
Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)	Non-recov (m³)	Cum Non-recov (m³)



PCI Canterra Tweed M-47

Daily Completion and Workover

Report # 7.0, Report Date: 9/20/2013

UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type	Project Name
Drilling KB Elevation (m) 435.22	Ground Elevation (m) 429.10	KB-Grd (m) 6.12	KB-CF (m) 429.10	KB-TH (m)	PBTD (All) (mKB)	Total Depth (All) (mKB)

Primary Job Type Site Inspections	Job Start Date 9/14/2013	Job End Date 9/20/2013
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Objective Three year inspection of leases and wellbores.	Rig Number non-rig operations	Rig Type	Rig Start Date	Rig Release Date	
AFE Number 14-01085-AC-1T	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 10,833.00	Cum Field Est To Date (Cost) 103,109.00	Personnel Total Hours (hr) 33.00	Cum Pers Reg Hr (hr) 133.00

Morning Readings					
Weather rain	Temperature (°C) 6	Road Condition	Tubing Pressure (kPa)	Casing Pressure (kPa)	

Hole Section Summary					
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24 Hr Operations Summary Picked up Stream Flo equipment from Canadian Helicopters and put on Canadian North cargo to be sent back to Edmonton base. All personnel returned to Edmonton base.					
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Next 24 Hr Forecast Final report.					
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Fuel Used (m³)	Water Used (m³)
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Daily Contacts					
Job Contact					Mobile
Barvir, Bob, Completions					403-540-4506
Pollard, Terry, Supervisor					780-361-5962

Personnel Log					
Company		Head count		Total Working Time (hr)	
Terry Pollard Consulting Inc		1		11.00	
Company		Head count		Total Working Time (hr)	
NEW VENDOR		1		11.00	
Company		Head count		Total Working Time (hr)	
Stream-Flo Industries Ltd		1		11.00	

Leading Indicators					
Company	# of Leading Indicators	Comment			

Time Log					
Start Time	End Time	Dur (hr)	Code 2	Ops Category	Com
08:00	19:00	11.00	General Operations		Picked up Stream Flo equipment from Canadian Helicopters and put on Canadian North cargo to be sent back to Edmonton base. All personnel returned to Edmonton base. Final Report.

Gas Volumes					
Type	Zone			Volume (E3m³)	Duration (hr)

Report Fluids Summary						
Fluid	To well (m³)	Cum to Well (m³)	From well (m³)	Cum from Well (m³)	Non-recov (m³)	Cum Non-recov (m³)