

Daily Morning Report

COPRC MIRROR LAKE N-20 65-00 126-45

Report #: 11
Report Date: 2/11/2016
Final Job Status:
Final Report? No

WELL HEADER INFORMATION

Country CANADA	State/Province N.W.T.	Region / Division WCBU	District NEW VENTURES	Field Name Mirror Lake	Field Code
Surface Legal Location N20 65-00 126-45		API / UWI 300/N20 65-00 126-45/0		License No. EL 470 WID 2079	
Orig KB/RT (m) 286.50	Ground Elevation (m) 281.30	KB-Grd (m) 5.20	KB-CF (m) 4.87	KB-TF (m) 4.32	Total Depth (mKB) 2,146.00
					PBTD (All) (mKB) Original Hole - 2,127.00

JOB INFORMATION

Job Category ABANDONMENT	Primary Job Type ABANDONMENT P&A	Secondary Job Type SURFACE CASING VENT	Total Field Estimate (Cost) 367,607.02
Objective Abandon Cut and Cap			
Actual Start Date 1/16/2016 14:00	End Date	Abandon Date	Responsible Grp 1 coved
		Responsible Grp 2 lborbel	Responsible Grp 3 Chris Tucker

AFE COST SUMMARY

AFE / RFE / Maint.# 10385949	Total AFE Amount (Cost) 1,310,000.00	Total AFE + Supp Amount (Cost) 1,310,000.00	Total Field Estimate (Cost) 367,607.02	AFE-Field Estimate (Cost) 942,392.98
AFE / RFE / Maint.# 10385945	Total AFE Amount (Cost) 946,350.00	Total AFE + Supp Amount (Cost) 946,350.00	Total Field Estimate (Cost)	AFE-Field Estimate (Cost) 946,350.00

DAILY INFORMATION

Report Start Date 2/11/2016 08:30	Report End Date 2/11/2016 16:00	Daily Cost Total (Cost) 117,083.74	Cumulative Cost (Cost) 367,607.02	Personnel Regular Hours (hr) 88.00
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Abandonment Engineer, Louis Borbely, 403-650-3939; WS Supervisor, Chris Tucker, 780-882-9501				Rig C&J Energy Services, 217
Tubing Pressure (kPa) 0	Casing Pressure (kPa) 0	Weather Snowing	Temperature (°C) -17	Lease Condition good

Last 24hr Summary

Performed Cement job on open intervals. Pumped 3.24m³ in interval leaving 2.72m³ in casing.
Left 15.7MPa pressure on Casing overnight.

24hr Forecast

Tag cement top, POOH w/Tbg, RIH with scrapper and possible mud motor, drill out if needed.

PROCESS SAFETY REPORTING

Start Date		End Date		Process Safety Event	Activity at Time of Event
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
08:30	09:00	0.50	P	Held PJHA # 02112016 meeting all personal on location. Talked about possible hazards and ways they will be avoided. Discussed today's operations and procedures and about past incidents we have had in the oil industry.	
09:00	09:30	0.50	P	Performed Daily walk around equipment, looked for any fuel leaks or containment spills, all good. Swept lease with gas monitor with no LELs detected.	
09:30	11:30	2.00	P	SICP = neutral, SITP = neutral Spotted and rigged in cement crew. Loaded 25°C town water on tank truck to feed cement crew. RIH with Tbg to 2100mKB to spot cement. Top joint froze off when RIH, switched out joint with one off the racks. Rig Cement crew into Tbg.	
11:30	14:30	3.00	P	Pressure tested cement lines to 35MPa, test good. Pump 5m³ of 25°C water down Tbg returning to the rig tank, Shut in for feed rate. Shut in Csg and Establish feed rate of 250L/min @ 13.4MPa and 200L/min @ 13.7MPa. Lost 1m³ during feed rate. 11:38hrs Start Mixing cement, SLB Batch mix 6.0 m³ 1680.0 kg/m³ SqueezeCRETE as per program. 13:05hrs Finished mixing cement, start spotting cement from 1800-2100mKB (300m plug) 13:40hrs Finished spotting cement 14:28hrs Finished POOH with Tbg to 1694mKB, (42jts) start backwash down Csg returning to rig tank. 48jts total on pipe racks 14:41hrs Finish Backwash, circulated 5m³, seen some grey water at bottoms up but no cement in returns, returns clean. Circulated 1.5 Tbg volumes during backwash @ 500L/min 14:50hrs Start cement squeeze	

Daily Morning Report

COPRC MIRROR LAKE N-20 65-00 126-45

Report #: 11
Report Date: 2/11/2016
Final Job Status:
Final Report? No

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
14:30	16:30	2.00	P	<p>Pumped 600L to a pressure of 17.9MPa before getting a break down. Squeezed away 3.24m³ at a final rate of 8L/min @ 18.7MPa Shut down and monitored for 15mins Final SITP @ 15.8MPa.</p> <p>14:50hrs Start cement squeeze Squeeze away 930 L @ 100 lpm - 17900 kPa Decrease rate to 75 lpm for 1198 L @ 15900 kPa Decreased rate to 50 lpm for 515 L @ 20000 kPa Decreased rate to 44 lpm for 325 L @ 20100 kPa Decrease rate to 22 lpm for 107 L @ 19500 kPa Decrease rate to 11 lpm for 52 L @ 17800 kPa. Decrease rate to 8 lpm for 114 L @ 18300 kPa.</p> <p>Shut down and monitored for 15mins Final SITP @ 15.8MPa.</p> <p>- Total of 3.24m³ cement squeezed away into Perforations. - Well was shut in over night with 15.7MPa. - Estimated Cement top @ 1963 mKB (calculated) with cement plug from 1963 mKB - 2100 mKB (137m)</p>
16:30	17:30	1.00	P	<p>Capped and secured well for night. Tarped in stump and used flameless heater to prevent Tbg from freezing.</p>

FLUID SUMMARY

Fluid	To lease (m ³)	From lease (m ³)	To well (m ³)	From well (m ³)	Left to recover (m ³)
FRESH WATER			1.00	0.00	7.50

DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Surface Completion Equipment Rental	BP PUMP LTD	Q300	20.00
Service Rig	C&J ENERGY PRODUCTION SERVICES CANADA LTD	E120	10,298.00
Surface Completion Equipment Rental	CENTRAL MACKENZIE ENVIRONMENTAL LTD	Q300	40.00
Surface Completion Equipment Rental	CENTRAL MACKENZIE ENVIRONMENTAL LTD	Q300	60.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	175.00
Completion Fluids & Other Chem	IMPERIAL OIL PRODUCTS & CHEMICALS DIVISION	G300	5,006.00
Completion Fluids & Other Chem	IMPERIAL OIL PRODUCTS & CHEMICALS DIVISION	G300	1,029.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	325.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	325.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,205.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,522.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	75.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	75.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	75.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	185.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	185.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	185.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	185.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	125.00
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	1,693.70
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Cementing Services & Materials	SCHLUMBERGER CANADA LIMITED	J200	90,603.24
Completion Fluids & Other Chem	SRP NORTH VENTURES LTD	G300	205.80
Completion Fluids & Other Chem	SRP NORTH VENTURES LTD	G300	1,001.00
Wellsite Supervision & Engineering	TECTONIC ENERGY CONSULTING INC	T130	1,620.00
Surface Completion Equipment Rental	TRUMPETER CAMP COMPANY PARTNERSHIP LTD	Q300	450.00
Surface Completion Equipment Rental	TRUMPETER CAMP COMPANY PARTNERSHIP LTD	Q300	350.00
Surface Completion Equipment Rental	TRUMPETER CAMP COMPANY PARTNERSHIP LTD	Q300	50.00

CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m ³)

PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
2/8/2016	Basal Lower Canol, Ori...	2,068.00	2,070.00	175.0	Open - Not Flowing
3/27/2013	Basal Lower Canol, Ori...	2,059.00	2,060.00	20.0	Open - Not Flowing

Daily Morning Report

COPRC MIRROR LAKE N-20 65-00 126-45

Report #: 11
Report Date: 2/11/2016
Final Job Status:
Final Report? No

PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/28/2013	Middle Lower Canol, O...	2,023.00	2,024.00	20.0	Open - Not Flowing
2/8/2016	Basal Lower Canol, Ori...	2,015.00	2,017.00	17.5	Open - Not Flowing
3/28/2013	Upper Lower Canol, Or...	1,993.00	1,994.00	20.0	Open - Not Flowing