

Daily Morning Report

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

Report #: 15
Report Date: 2/15/2016
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) 524,724.27
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 Michael Short

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) 524,724.27	AFE-Field Estimate (Cost) 785,275.73
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 2/15/2016 07:30	Report End Date 2/15/2016 19:30	Daily Cost Total (Cost) 38,250.34	Cumulative Cost (Cost) 524,724.27	Personnel Regular Hours (hr) 189.00
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Abandonment Engineer, Louis Borbely, 403-650-3939; WS Supervisor, Michael Short, 403-348-7127				Rig C&J Energy Services, 217
Tubing Pressure (kPa)	Casing Pressure (kPa) 0	Weather partly cloudy	Temperature (°C) -19	Lease Condition good

Last 24hr Summary

Run in hole 60.3mm tubing and snap latch stinger. Sting into retainer and pressure test. Perform 2.0m³ acid squeeze through retainer.

24hr Forecast

Perform cement job and pull out of hole 60.3mm tubing.

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	
07:30	08:00	0.50	P	Held pre-job safety and operations meeting with all services. Review CPC PJHA, tripping tubing hazards/ slippery lease conditions and use of traction control/ overhead loads/ hammering/wrenching/trapped pressure/ ice plugs/cold weather operations/ pinch points on floor/ pressure testing/ high pressure lines. Review transportation plan and muster areas with all workers. All workers safety certificates checked.	
08:00	11:30	3.50	P	<p>Perform daily walk around inspections and checks. Inspect all equipment for leaks/spills. Found 1 light tower was leaking some oil. All oil was captured in drip tray under unit. Shut down light tower, talk with rental company. Switched out light tower, take other tower to back to shop to repair and clean. Sweep for LEL's, no LEL's</p> <p>Check well pressures: SICP- 0</p> <p>Surface casing- vent nanny installed. Vent meter stainless line frozen. Shut in valve on surface casing. Remove stainless line and thaw. Run line through flameless heater hose and install tarp around vent meter box to keep warm. 10:30am lines thawed. Upload vent meter and ensure reading (good)</p> <p>Warm equipment and install kill line to BOP's.</p> <p>Run in hole with 60.3mm tubing and snap latch stinger assembly. Tag top of retainer at 1933.22mKB (pipe tally) Wireline set depth top @ 1933.0mKB (-0.22m CORRECTION).</p> <p>Space out tubing, tubing string as follows:</p> <ul style="list-style-type: none"> 1- Snap latch stinger 1- Joint of 60.3mm 6.99kg/m J-55 tubing 1- X- profile nipple 199- Joints of 60.3mm 6.99kg/m J-55 tubing 1- 3.09m pup joint 1- 1.25m pup joint 1- Joint of 60.3mm 6.99kg/m J-55 tubing <p>08:30- SLB on location. Reviewed CPC PJHA discussed spotting and rigging in equipment. SLB begin rigging in equipment. Run treating line through flameless heater line to avoid freezing.</p>	

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Start Time	End Time	Dur (hr)	Time P-T-X	Operation
11:30	12:00	0.50	P	<p>Sting into retainer and set 9000daN compression. Pressure test annulus to 21MPa, good test.</p> <p>Rig on SLB treating line and apply heat using flameless heater.</p> <p>Tank truck load warm potable water containing <4000mg/L TDS for mixing acid and performing acid squeeze.</p>
12:00	12:30	0.50	P	Review CPC PJHA. Discuss acid squeeze hazards/ chemicals/high pressure lines/ ice plugs/ hammering and wrenching.
12:30	17:00	4.50	P	<p>SLB pumper take on 2m³ synthetic acid and complete mixing, push back to tank truck</p> <p>SLB pumper take on potable water prime and heat pump.</p> <p>Push warm water through line to warm.</p> <p>12:40 Shut in hamer and pressure test treating line to 1.4 and 30MPa. Test not holding. Attempt second test with same results. Determined hamer valve was leaking. Change out hamer valve and re-test to 30MPa, test good.</p> <p>13:20- while stung into retainer perform quick feed rate test to ensure able to pump acid. 50L/min @ 13,600kPa</p> <p>13:30- Pull into neutral position to test tubing. Pressure test was not holding, tool was not in neutral, still stung in. Pull to neutral and re-test to 10MPa, test good.</p> <p>13:55- bleed off pressure and sting out of retainer.</p> <p>14:00- Circulation to tank, Begin to circulate down 2.0m³ synthetic acid, holding back pressure while pumping followed by 1.65m³ potable water.</p> <p>Stop pumps, shut in casing side and sting into retainer, set 9000daN compression.</p> <p>Perform 2.0m³ Acid Squeeze on perforations 1938.0 - 1940.0mKB as follows:</p> <p>14:21- Begin squeezing. 50L/min @ 13,500kPa until acid at perfs</p> <p>14:30- Acid at perfs, drop rate to 25L/min @ 12,000kPa</p> <p>0.5m³ acid squeezed into perfs 25L/min @ 11,900kPa</p> <p>1.0m³ acid squeezed into perfs 25L/min @ 12,176kPa</p> <p>15:12- let acid soak for 30min</p> <p>ISIP- 12,000kPa / 10min - 11,766kPa</p> <p>15:42- Start pressure 11,500kPa continue to squeeze remaining 1m³ acid, 280L/min @ 15.3MPa</p> <p>Over Displace acid with 10m³ potable water, perform feed rate while displacing as follows:</p> <p>25L/min @ 13,470kPa</p> <p>50L/min @ 13,470kPa</p> <p>100L/min @ 13,780kPa</p> <p>150L/min @ 14,200kPa</p> <p>200L/min @ 14,800kPa</p> <p>250L/min @ 15,450kPa</p> <p>300L/min @ 16,550kPa</p> <p>ISIP-14,500kPa</p> <p>10min ISIP-13,755kPa</p>
17:00	18:00	1.00	P	<p>Pull into neutral and bleed off pressure. Rig off SLB treating line. Drain and winterize SLB equipment.</p> <p>Pull out of hole 10 joints/ land and secure tubing hanger for night.</p>
18:00	18:30	0.50	P	<p>Shut in and secure well for night. Drain and winterize equipment.</p> <p>Boiler hand on location to supply heat to equipment and water tanks.</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	33.60	0.00	17.00	5.40	22.10

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	12,689.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,990.00
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	HRN CONTRACTING LTD	G300	2,000.00
Wellsite Supervision & Engineering	MKH SHORT CONSULTING LTD	T130	1,620.00
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	75.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	75.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	75.00

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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	1,638.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,205.00
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	3,382.50
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Downhole Completion Equipment	SCHLUMBERGER CANADA LIMITED	C100	1,735.00
Cementing Services & Materials	SCHLUMBERGER CANADA LIMITED	J200	7,455.84
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 (E3m³)
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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	17.5	Open - Not Flowing
3/27/2013	Basal Lower Canol, Ori...	2,059.00	2,060.00	20.0	Open - Not Flowing
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
2/14/2016	Upper Lower Canol, Or...	1,938.00	1,940.00	17.5	Open - Not Flowing
2/14/2016	Upper Lower Canol, Or...	1,938.00	1,940.00	17.5	Open - Not Flowing