

# Daily Morning Report

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

Report #: 26  
Report Date: 2/26/2016  
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) 1,373,571.88
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) 1,373,571.88	AFE-Field Estimate (Cost) -63,571.88
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 2/26/2016 07:30	Report End Date 2/26/2016 18:00	Daily Cost Total (Cost) 45,841.11	Cumulative Cost (Cost) 1,373,571.88	Personnel Regular Hours (hr) 130.00
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Abandonment Engineer, Louis Borbely, 403-650-3939; WS Supervisor, Michael Short, 403-348-7127; WS Supervisor, Marty Dushanek, 403-358-8911				Rig C&J Energy Services, 217
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Cloudy	Temperature (°C) -14	Lease Condition good

### Last 24hr Summary

Performed pressure volume test with pressure truck. Rigged in E-Line, RIH with 3 perf guns, Shot interval from 873mKB - 874mKB with reverse gun, normal gun and UZI gun. POOH. RIH with Temp log tool and record temp at perfs, 32.24°C at perfs. RIH with 144mm gauge ring past perfs, no issue.

### 24hr Forecast

Set PBP 0.5m below perfs at 874.5mKB, dump 175L (equal to 8.7m) of Resin Cement on plug, pressure up as per program and let sit with pressure on well over night.

### 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 PJHA # 02262016 meeting all personal on location. Talked about possible hazards and ways they will be avoided. Discussed todays operations and procedures and about past incidents we have had in the oil industry.		
08:00	08:30	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.		
08:30	10:30	2.00	P	<p>Rigged in Pressure truck to Csg, Filled wellbore with 1.1m³ of potable water TDS&lt;4000 mg/l, with rams open to make sure there was no trapped air. Got water above rams then closed rams .</p> <p>Performed pressure truck test to see the volumes needed to pressure up to 7MPa and 14MPa with water in prep for pressure truck work tomorrow.</p> <p>Volumes and pressures as follows:</p> <p>All pumping operation performed @ 36L/min, with full wellbore of fluid down to cement top @ 1147.8mKB.</p> <p>Test #1 Pumped 95L to pressure up to 7MPa, pumped another 182L to pressure up to 14MPa. Then Bleed off to 0Kpa, Open and closed Rams to confirm to trapped pressure.</p> <p>Test #2 Pumped 92L to pressure up to 7MPa, pumped another 179L to pressure up to 14MPa. Then Bleed off to 0KPa again.</p> <p>Test #3 Pumped 90L to pressure up to 7MPa, pumped another 179L to pressure up to 14MPa. Then Bleed off to 0KPa again.</p> <p>Open and closed Rams to confirm to trapped pressure or air.</p> <p>Test #4 Pumped 90L to pressure up to 7MPa, pumped another 180L to pressure up to 14MPa. Then Bleed off to 0KPa again.</p> <p>Open and closed Rams to confirm to trapped pressure or air.</p> <p>Test #5 Pumped 91L to pressure up to 7MPa, pumped another 182L to pressure up to 14MPa. Then Bleed off to 0KPa again.</p> <p>Cement top @ 1147.8m and new cement top will be @ 864.8m to start. Total 283m which is equal to 24.6%.</p> <p>Avg. 7MPa test is 91.6L and</p> <p>Avg 14MPa test is 180.4L</p> <p>91.6L - 24.6% = 69L to pressure up 864.8m to 7MPa</p> <p>180.4L - 24.6% = 136L to pressure up 864.8m to 14MPa</p>		

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Start Time	End Time	Dur (hr)	Time P-T-X	Operation
10:30	16:30	6.00	P	<p>Rigged up E-Line and RIH with perfs guns to shot interval from 873-874mKB. Using switches to fire all 3 on one run.</p> <p>1. RIH with 3 guns, got to 255m and CCL stopped working, performed all diagnostics but couldnt get CCL to work, disarmed guns to POOH and found that there was also a error in the guns, so miss fire was imminent. Stopped at 100meters and held PJHA meeting with all personal on laying down guns and hazards involved with task.</p> <p>Switched out CCL and checked gun, found that a wire was pinched in the last gun and grounding out on carrier, fixed wire and checked guns at surface again. Ready to RIH.</p> <p>2. RIH with 3 switch guns to perforate from 873-874mKB. Logged on depth and corralated to GR/CCL and Cement Bond logs. Found short Csg joint at 850mKB.</p> <p>Pulled into position and shot Reverse phasing gun, logged up freely. Run back down and shot Normal Phasing gun, logged up freely for 2 collars and run back own again to shot UZI. Pulled into position and shot UZI gun from 873mKB - 873.9mKB, logged up freely for 3 Csg collars. POOH.</p> <p>Checked gun carries and all shots center fired and in good condition.</p> <p>3. RIH with Temp log tool and logged Temp strip from 880mKB to 850mKB, Temp at the perfs is 32.24°C. POOH.</p> <p>4. RIH with 144mm gauge ring (checked on location) past the perfs (PBP 139mm) made 3 passes through the perfs with no issues. POOH</p> <p>Note: No change in wellbore on any of the runs. Netural.</p>
16:30	18:30	2.00	P	<p>Layed down Lubicator and sheeves, rigged out E-Line truck and sent to run nights on another well.</p> <p>Drained all surface equipment, capped and secured well.</p> <p>SDFN</p>

### FLUID SUMMARY

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	0.00	63.00			109.70

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Surface Completion Equipment Rental	BP PUMP LTD	Q300	40.00
Service Rig	C&J ENERGY PRODUCTION SERVICES CANADA LTD	E120	17,049.00
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
Wellsite Supervision & Engineering	MKH SHORT CONSULTING LTD	T130	1,620.00
Wellsite Supervision & Engineering	MKH SHORT CONSULTING LTD	T130	1,620.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	200.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	200.00
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
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,205.00
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	1,638.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	20,024.11
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	Squeezed
2/8/2016	Basal Lower Canol, Ori...	2,068.00	2,070.00	17.5	Squeezed
3/27/2013	Basal Lower Canol, Ori...	2,059.00	2,060.00	20.0	Squeezed
3/28/2013	Middle Lower Canol, O...	2,023.00	2,024.00	20.0	Squeezed

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Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
2/8/2016	Basal Lower Canol, Ori...	2,015.00	2,017.00	17.5	Squeezed
2/8/2016	Basal Lower Canol, Ori...	2,015.00	2,017.00	17.5	Squeezed
3/28/2013	Upper Lower Canol, Or...	1,993.00	1,994.00	20.0	Squeezed
2/14/2016	Upper Lower Canol, Or...	1,938.00	1,940.00	17.5	Squeezed
2/14/2016	Upper Lower Canol, Or...	1,938.00	1,940.00	17.5	Squeezed
2/17/2016	Imperial , Original Hole	1,906.00	1,908.00	17.5	Squeezed
2/17/2016	Imperial , Original Hole	1,906.00	1,908.00	17.5	Squeezed
2/20/2016	Imperial , Original Hole	1,623.00	1,625.00	17.5	Squeezed
2/20/2016	Imperial , Original Hole	1,623.00	1,625.00	17.5	Squeezed
2/22/2016	Imperial , Original Hole	1,170.50	1,173.50	17.5	Squeezed
2/26/2016	Basal Lower Canol, Ori...	873.00	874.00	17.5	
2/26/2016	Basal Lower Canol, Ori...	873.00	873.90	108.0	
2/26/2016	Basal Lower Canol, Ori...	873.00	874.00	17.5	