

# Daily Morning Report

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

Report #: 14  
Report Date: 2/14/2016  
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) 486,473.93
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) 486,473.93	AFE-Field Estimate (Cost) 823,526.07
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 2/14/2016 07:30	Report End Date 2/14/2016 19:30	Daily Cost Total (Cost) 52,621.68	Cumulative Cost (Cost) 486,473.93	Personnel Regular Hours (hr) 178.00
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Abandonment Engineer, Louis Borbely, 403-650-3939; WS Supervisor, Chris Tucker, 780-882-9501; WS Supervisor, Michael Short, 403-348-7127				Rig C&J Energy Services, 217
Tubing Pressure (kPa) 0	Casing Pressure (kPa) 0	Weather overcast/snow	Temperature (°C) -18	Lease Condition good

### Last 24hr Summary

Pull out of hole with bit and scraper. Wireline Perforate Interval 1938.0 - 1940.0 mKB ( Regular and Reverse phased). Get breakdown /feed at 17.5MPa. Set cement retainer top @ 1933.0mKB and pressure test to 21MPa.

### 24hr Forecast

Run in hole with snap latch stinger. Perform 2m³ acid squeeze.

### 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/ rig in wireline hazards/ slippery lease conditions and use of traction control/ overhead loads/ explosives/ hammering/wrenching/trapped pressure/ ice plugs/cold weather operations/ pinch points on floor. Review transportation plan and muster areas with all workers. All workers safety certificates checked.	
08:00	08:30	0.50	P	Perform daily walk around inspections and checks. Inspect all equipment for leaks/spills, none found. Sweep for LEL's, no LEL's  Check well pressures SICP- 0 SITP-0 Surface casing- vent nanny installed.  Warm equipment and install kill line to BOP's.	
08:30	10:30	2.00	P	Pull out of hole and stand 196 joints of 60.3mm tubing. Lay down 1 joint and BHA ( pup joint/ scraper/tri-cone bit) Inspect scraper and bit, all equipment recovered and in good condition.	
10:30	11:15	0.75	P	Spot and rig up Lonkar Wireline. Install wireline 7" Bop's c/w 7 1/16"-5K Flange, torque down flange. Rig in sheaves, pick up Lubricator. Lubricator wrapped with steam line and tarped to avoid freezing.	
11:15	11:45	0.50	P	Review CPC PJHA. Discuss perforating operations and hazards. Overhead loads/explosives/purge and pressure testing/high pressure lines. Switch vent meter to perf mode	

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Start Time	End Time	Dur (hr)	Time P-T-X	Operation
11:45	14:15	2.50	P	<p>Make up tandem - 2m guns. Gun # 1- 127mm, Owen SDP-4500-411NT3 39gm HMX charges at 50° reverse phasing and 17.5 spm perforating gun, Gun # 2- 127mm, Owen SDP-4500-411NT3 39gm HMX charges at 50° phasing and 17.5 spm perforating gun, Pick up gun string and stab on lubricator, fill and pressure test lubricator to 1.4 + 14 mPa.</p> <p>Run in the hole down to 1948.0mKB with no issues. Log up and correlate to Schlumberger cased hole cement bond log dated March 27 ,2013, Run back in hole, pull up into position and Perforate Interval 1938.0 - 1940.0 mKB (13:14). Reverse Phasing. Fluid level @ 90mKB</p> <p>Pull short correlation log, run back in hole, pull up into position with gun # 1 (regular phasing). Perforate interval 1938.0-1940.0mKB (13:22) POOH. Inspect guns once at surface, all shots fired and in correct orientation.</p>
14:15	15:00	0.75	P	<p>Pre-heat, Fill and pressure test pump line to 1.4 and 30MPa.</p> <p>Fill casing and pressure up to get a breakdown. (1.7m³ to fill hole)</p> <p>Pressured up to 17.5MPa and started to feed. Pumping at 150L/min, pumped 0.3m³. Shut down pump ISIP- 15MPa 10min ISIP - 12MPa</p> <p>Bleed off pressure to rig tank and prepare to run cement retainer.</p>
15:00	17:30	2.50	P	<p>Make up 69.0 MPa - 177.8mm PCR cement retainer on setting tool. Measure all tools. Pick up tools, stab on lubricator and run in the hole with cement retainer. Log onto depth using Schlumberger cased hole cement bond log dated March 27 ,2013 Set cement retainer Top @ 1933.0 mKB (16:40Hrs) Pull out of the hole with setting tool.</p> <p>Pressure test cement retainer to 21.0 mPa for 10min with 0 leak off - good test. Bleed off applied pressure, drain and blow out pump lines. Rig out and lay down 7" lubricator on catwalk. Remove wireline bop's and flange. Rig out sheaves,</p>
17:30	18:00	0.50	P	<p>Shut in and secure well for night. Drain and winterize equipment.</p>

### FLUID SUMMARY

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	33.70	0.00	2.00	0.00	10.50

### 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	13,077.00
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
Electric Line Servs on Drilling Ops.	LONKAR SERVICES A/D/O SCHLUMBERGER CANAD...	K100	12,159.28
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
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	1,576.00
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	3,381.40
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	11,493.00
Downhole Completion Equipment	SCHLUMBERGER CANADA LIMITED	C100	3,575.00

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BU Desc	Vendor	Activity Code	Amount (Cost)
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