

Daily Morning Report

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

Report #: 17
Report Date: 2/17/2016
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) 708,062.52
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) 708,062.52	AFE-Field Estimate (Cost) 601,937.48
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 2/17/2016 07:30	Report End Date 2/18/2016 07:30	Daily Cost Total (Cost) 49,502.21	Cumulative Cost (Cost) 708,062.52	Personnel Regular Hours (hr) 223.00
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) 0	Casing Pressure (kPa) 0	Weather clear	Temperature (°C) -38	Lease Condition good

Last 24hr Summary

Pull out of hole remainder of 60.3mm tubing. Perforate Imperial sands interval 1906.0-1908.0mKB. Get breakdown/feedrate at 29MPa. Wireline set PCR cement retainer, top @ 1901.0 mKB. Pressure test retainer to 30 MPa. Made up Stinger & RIH on 60.3mm J-55 EUE TBG, Spaced Out, P Tested Annulus to 21 MPa, P Tested TBG to 7 MPa, Opened Retainer, Pressured up TBG to 10 MPa, SITP Bled to 9.5 MPa in 5 mins, Bled TBG Pressure to Zero, Drained up.

24hr Forecast

Perform 2 m³ synthetic 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/ slippery lease conditions and use of traction control/ overhead loads/ hammering/wrenching/cold weather operations/ pinch points on floor/ pressure testing/ high pressure lines/ overhead loads/tag lines. Review transportation plan and muster areas with all workers. All workers safety certificates checked.	
08:00	10:30	2.50	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. Pull tubing hanger, Pull out of hole and stand remainder of 60.3mm tubing (176 joints), nipple and stinger assembly. Inspect stinger assembly. All slips and seals in place. Wireline on location to spot and prep equipment for perforating.	
10:30	11:00	0.50	P	Review CPC PJHA, discuss wireline operations and hazards/ rotating equipment/ high pressure lines/ overhead loads/ lifting lube operations/ snags/ pinch points./ explosives	
11:00	12:00	1.00	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.	

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Start Time	End Time	Dur (hr)	Time P-T-X	Operation
12:00	14:00	2.00	P	<p>Make up tandem - 2m guns.</p> <p>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° regular 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>NOTE: Short joint (11.08m) located top @ 1162.8mKB</p> <p>Run in the hole down to 1913.0mKB 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 Imperial Sand Interval 1906.0 - 1908.0 mKB (12:50Hrs). Reverse Phasing. Fluid level @ 100mKB</p> <p>Pull short correlation log, run back in hole, pull up into position with gun # 2 (regular phasing). Perforate interval 1906.0-1908.0mKB (13:07Hrs)</p> <p>POOH.</p> <p>Inspect guns once at surface, all shots fired and in correct orientation.</p>
14:00	14:45	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. (2.0m³ to fill hole)</p> <p>Pressured up to 29.0MPa to get break and feed.</p> <p>Pumping at 150L/min, pumped 1m³ feeding at 27.0MPa-28.0MPa Shut down pump</p> <p>ISIP- 27.0MPa</p> <p>10min ISIP - 18.0MPa</p> <p>Report Break and feed rate to superintendent.</p> <p>Bleed off pressure to rig tank and prepare to run cement retainer.</p>
14:45	18:30	3.75	P	<p>Make up 69.0 MPa - 177.8mm PCR cement retainer on setting tool. Measure all tools.</p> <p>Pick up tools, stab on lubricator and run in the hole with cement retainer.</p> <p>Log onto depth using Schlumberger cased hole cement bond log dated March 27 ,2013</p> <p>Set cement retainer Top @ 1901.0mKB (16:54Hrs)</p> <p>Pull out of the hole with setting tool.</p> <p>Pressure test cement retainer to 30.0 MPa for 10min with 0 leak off - good test.</p> <p>Bleed off applied pressure, drain and blow out pump lines.</p> <p>Rig out and lay down 7" lubricator on catwalk.</p> <p>Remove wireline bop's and flange.</p> <p>Rig out sheaves,</p>
18:30	19:15	0.75	P	<p>Prep to Run in hole Snap latch stinger and 60.3mm tubing.</p> <p>Transfer fluid from rig tank into dirty 400bbl tank to make room for acid job.</p> <p>19:00-new night shift crew on location. Cross over with day shift.</p>
19:15	19:45	0.50	P	<p>Held PJHA Meeting with All Night Shift Personnel. (8 Total)</p> <p>Discussed Days Objectives, Procedures & Potential Hazards,</p> <p>Discussed Cold Temperatures, First Night Shift, Footing, LSR's 1, 3, 4 & 8,</p> <p>RIH with Stinger on 60.3mm TBG, Spacing out TBG String, Ice Plugs,</p> <p>Pressure Testing = Stand Clear + Manage Your Red Zone,</p> <p>Hammering = Stand Clear + Watch Swing Paths,</p> <p>Steam/Boiler Safety, TBG Drift, Good Communication,</p> <p>Proper Lighting = Adjust Light Towers if Necessary,</p> <p>Zero Spillage = Take Extra Time + Utilize Drip Trays,</p> <p>Extreme Cold = Don't Overdo it, Take Extra Breaks + Lookout for Each Other,</p> <p>LSR # 3: Fall Arrest, LSR # 4: Overhead Equipment + LSR # 8: Safe Driving.</p> <p>Reviewed Transportation Plan, Emergency Phone Numbers + MTV.</p> <p>> All Hands had 2016 Conoco Orientation + Valid Oilfield Tickets. <</p>
19:45	20:45	1.00	P	<p>Held Cross-Over Meeting with Day Crew.</p> <p>Performed Daily Walk Around Lease Inspection.</p> <p>Rigged in Pump Line c/w Steam for Steel Displacement. Made up Stinger.</p>
20:45	00:45	4.00	P	<p>RIH with Snap Latch Stinger on 198 Jts of 60.3mm TBG.</p> <p>Tagged Retainer. Spaced out TBG String. (Buried a 1.25m Pup)</p> <p><> Extra Time Taken due to Extreme Cold.</p>
00:45	02:45	2.00	P	<p>- Pulled TBG into Neutral Position in Retainer.</p> <p>> Pressure Tested Annulus to 21 MPa. Pressure Test Held 100% for 10 mins.</p> <p>- Lowered TBG + Rigged Pump Line into TBG.</p> <p>- Pulled TBG into Neutral Position in Retainer.</p> <p>> Attempted to P Test TBG to 10 MPa, But Hydraulic'd TBG out of the Retainer.</p> <p>> Pressure Tested TBG to 7 MPa. Pressure Test Held 100% for 10 mins.</p> <p>- Lowered TBG + Opened Retainer.</p> <p>> Pressured TBG to 10.0 MPa. Stopped Pump.</p> <p>> SITP Bled to down to 9.5 MPa in 5 mins. Slowly Bled TBG to Zero.</p>

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Start Time	End Time	Dur (hr)	Time P-T-X	Operation
02:45	07:30	4.75	P	Drained Pump & Lines. Tarped in & Heated TBG Stump + BOPs. > Rig Crew Slipped & Cut Drill Line. <> CREW CHANGE. <>

FLUID SUMMARY

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	22.90	0.00	2.50	1.50	35.60

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	19,000.00
Surface Completion Equipment Rental	CENTRAL MACKENZIE ENVIRONMENTAL LTD	Q300	40.00
Surface Completion Equipment Rental	CENTRAL MACKENZIE ENVIRONMENTAL LTD	Q300	60.00
Wellsite Supervision & Engineering	FOCUS WELLSITE SUPERVISION LTD	T130	1,620.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	175.00
Electric Line Servs on Drilling Ops.	LONKAR SERVICES A/D/O SCHLUMBERGER CANAD...	K100	13,836.44
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
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	1,764.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,205.00
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	2,331.77
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
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	3,575.00
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 (E3m³)

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	
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
2/8/2016	Basal Lower Canol, Ori...	2,015.00	2,017.00	17.5	
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	Open - Not Flowing
2/17/2016	Imperial , Original Hole	1,906.00	1,908.00	17.5	Open - Not Flowing