

Daily Morning Report

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

Report #: 23
Report Date: 2/23/2016
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) 1,176,255.04
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) 1,176,255.04	AFE-Field Estimate (Cost) 133,744.96
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 2/23/2016 06:00	Report End Date 2/24/2016 06:00	Daily Cost Total (Cost) 35,382.00	Cumulative Cost (Cost) 1,176,255.04	Personnel Regular Hours (hr) 263.00
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) 12,000	Casing Pressure (kPa) 0	Weather Clear	Temperature (°C) -30	Lease Condition good

Last 24hr Summary

Perform acid squeeze and feed rate through retainer on Imperial sand interval 1170.5 - 1173.5mKB,
Crew Change: Fired Boiler + Jet Heater to Heat Water Tanks, TBG Stump, SCV + BOPs.

24hr Forecast

Perform cement squeeze through retainer on Imperial sand interval 1170.5 - 1173.5mKB

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	
06:00	07:30	1.50	P	Continued to Fire Boiler & Jet Heater to Heat TBG Stump, SCV, BOPs & Fresh Water. >> CREW CHANGE. <<	
07:30	08:00	0.50	P	Held pre-job safety and operations meeting with all services. Review CPC PJHA, Discuss acid squeeze hazards/ pressure testing/ chemicals/ slippery lease conditions and use of traction control/ overhead loads/ hammering/wrenching/ pinch points / high pressure lines/ overhead loads/tag lines/working at heights. Review transportation plan and muster areas with all workers. All workers safety certificates checked.	
08:00	11:30	3.50	T	Wait for pressure truck with acid to arrive. Had a miscommunication with how much acid to load. Pressure truck loaded 0.5m³ too much synthetic acid in town. Got in contact with operator when en route to go back and offload 0.5m³ then travel to location. Transfer fluids on site to make room in rig tank for cementing. Rig crew perform maintenance and clean up lease.	
11:30	12:00	0.50	P	Pressure truck arrived at location. Held pre-job safety and operations meeting with all services. Review CPC PJHA, discuss acid squeeze hazards/high pressure lines/ chemicals/ proper PPE/ high pressure lines.	

Daily Morning Report

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

Report #: 23
Report Date: 2/23/2016
Final Job Status:
Final Report? No

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
12:00	15:00	3.00	P	<p>Spot and rig in pressure truck to tubing swivel. Take on 0.5m³ fresh water and blend up synthetic acid. (1m³ acid)</p> <p>Perform acid squeeze on interval 1170.5 - 1173.5mKB as follows:</p> <p>Fill and warm pressure truck treating line. Pressure test line to 1.4 and 28MPa , test good.</p> <p>Pump 0.2m³ water down tubing to make sure acid would feed prior to filling line. Pump 1.0m³ synthetic acid followed by 1.54m³ water. Slow rate to 37L/min and pump 0.5m³ water @ 12,500kPa. (0.5m³ acid into perforations) Let acid soak for 30min. Pressure at 11,000kPa after soak. Finish pumping remainder of acid into perforations and over displace by 10m³. Perform feed rate while over displacing acid.</p> <p>Slow rate and record feed rates as follows: Lowest rate pressure truck could achieve was 37L/min.</p> <p>37L/min @ 12,400kPa 50L/min @ 12,400kPa 75L/min @ 12,600kPa 100L/min @ 13,000kPa 150L/min @ 13,600kPa 200L/min @ 14,800kPa 250L/min @ 16,000kPa 300L/min @ 17,600kPa</p> <p>ISIP- 12,500kPa 10min ISIP -12,000kPa</p> <p>Send results to Louis Borbely</p> <p>Winterize and rig out pressure truck.</p>
15:00	17:00	2.00	P	Frank Barlow and Derrick Cove on location. Held safety meeting with rig crew. Discuss CPC Life Saving Rules.
17:00	19:30	2.50	P	Rig crew perform maintenance. Heat wellhead and vent meter. Clean up lease and equipment.
19:30	19:45	0.25	P	<p>Held PJHA Meeting with All Night Shift Personnel. (7 Total) Discussed Days Objectives, Procedures & Potential Hazards, Discussed Footing, Proper Lighting, LSR's 1, 3, 4 & 8, Continuing to Fire Boiler + Jet Heater to Heat TBG Stump, SCV, BOPs + Water, Hammering = Stand Clear + Watch Swing Paths, Steam/Boiler Safety, Good Communication, Zero Spillage = Take Extra Time + Utilize Drip Trays, LSR # 3: Fall Arrest, LSR # 4: Overhead Equipment + LSR # 8: Safe Driving. Reviewed Transportation Plan, Emergency Phone Numbers, EMT + MTV. > All Hands had 2016 Conoco Orientation + Valid Oilfield Tickets. <</p>
19:45	20:00	0.25	P	Held Cross-Over Meeting with Day Crew. Performed Daily Walk Around Lease Inspection.
20:00	06:00	10.00	P	Fired Boiler and Continued to Heat Water Tanks, TBG Stump, SCV + BOPs through the Night. Organized Lease and Rigged out some Non-Essential Equipment.

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	15.00	0.00	12.50	0.00	101.70

DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Surface Completion Equipment Rental	BP PUMP LTD	Q300	40.00
Cementing Services & Materials	C&J ENERGY PRODUCTION SERVICES CANADA LTD	J200	23,000.00
Pressure Truck/Hot Oilier	CANOL OILFIELD SERVICES INC	S990	2,355.00
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
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

Daily Morning Report

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

Report #: 23
Report Date: 2/23/2016
Final Job Status:
Final Report? No

DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
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	1,055.00
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	882.00
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	2,150.00
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
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	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
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	Basal Lower Canol, Ori...	1,170.50	1,173.50	17.5	Open - Not Flowing