

Daily Morning Report

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

Report #: 18
Report Date: 2/18/2016
Final Job Status:
Final Report? No

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			
Job Information							
Job Category ABANDONMENT		Primary Job Type ABANDONMENT P&A		Secondary Job Type SURFACE CASING VENT			
				Total Field Estimate (Cost) 784,198.96			
Objective Abandon Cut and Cap							
Actual Start Date 1/16/2016 14:00		End Date		Abandon Date (C&C)			
				Responsible Grp 1 coved			
				Responsible Grp 2 lborbel			
				Responsible Grp 3 Michael Short			
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) 784,198.96			
				AFE-Field Estimate (Cost) 525,801.04			
AFE / RFE / Maint.# 10385945		Total AFE Amount (Cost) 946,350.00		Total AFE + Supp Amount (Cost) 946,350.00			
				Total Field Estimate (Cost) 946,350.00			
				AFE-Field Estimate (Cost) 946,350.00			
Daily Operations							
Report Start Date 2/18/2016 06:00		Report End Date 2/19/2016 06:00		Daily Cost Total (Cost) 50,187.44			
				Cumulative Cost (Cost) 757,408.96			
				Personnel Regular Hours (hr) 273.00			
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							
Tubing Pressure (kPa) 0		Casing Pressure (kPa) 0		Weather clear			
				Temperature (°C) -38			
				Lease Condition good			
Last 24hr Summary Perform 2m³ synthetic acid squeeze. Pull out of hole with snap latch stinger. Crew Change; Made up & RIH with Positive J Latch Stinger on 60.3mm TBG, Spaced out TBG, Installed Master Valve & TBG Swivel, Stung into Cement Retainer @ 1,901 mKB, Function Tested J Latch Stinger, Pulled into Neutral, Pressure Tested TBG + Annulus (All Good), Drained Pump & Lines, Heated TBG Stump + BOPs through the Night.							
24hr Forecast Perform cement squeeze on Imperial sand interval 1906.0-1908.0mKB							
Start Time	End Time	Dur (hr)	Op Code	Activity Code	Time P-T-X	Trbl Code	Operation
06:00	07:30	1.50	CEMENT	SISW	P		Tarped in & Heated TBG Stump + BOPs. <> CREW CHANGE. <>
07:30	08:00	0.50	CEMENT	SFTY	P		Held pre-job safety and operations meeting with all services. Review CPC PJHA, Acid squeeze 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	10:15	2.25	CEMENT	RURD	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. NOTE: Vent meter not uploading information. Check vent meter, found fuse blown on perf mode switch. Contact Roke to find out what issues may be and if any spare parts were brought to Norman Wells. Another electrical box on O-6 location in crate. Changed out fuse and new fuse blew right away. Heated electrical panel with flameless heater. Installed another fuse and uploaded. Information uploaded, then did not update again. Checked fuse and fuse blown again. Roke service hand will be up to fix tomorrow afternoon. Spot and rig in SLB C&A pumping unit and tank truck. Treating line ran through flameless heater hose to keep warm. Tank truck loaded with 1m³ raw synthetic acid. Take on 1m³ warm municipal water to mix acid. (2m³ total blended acid) Load with 15m³ warm municipal water to feed SLB for acid squeeze. Discuss job scope and pumping volumes with supervisor.
10:15	10:45	0.50	CEMENT	SFTY	P		Review CPC PJHA. Discuss acid squeeze hazards/ chemicals/high pressure lines/ ice plugs/ hammering and wrenching.

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Start Time	End Time	Dur (hr)	Op Code	Activity Code	Time P-T-X	Trbl Code	Operation
10:45	15:00	4.25	CEMENT	STIM	P		<p>Perform 2.0m³ synthetic acid squeeze on Imperial Sand interval 1906.0 - 1908.0 mKB as follows:</p> <p>SLB C&A unit take on 2m³ synthetic acid to finish mixing and push back to tank truck. Push fluid through lines to heat. Shut in and pressure test treating line to 33MPa (good test) Pump through retainer to ensure feed rate. 25L/min @ 23MPa</p> <p>Pull to neutral and bleed down pressure. Sting out and prepare to spot acid.</p> <p>11:45hrs Establish good circulation to rig tank with water. Begin circulating down 2.1m³ synthetic acid followed by 1.4m³ fresh potable water. Hold 2500kPa back pressure while circulating down acid.</p> <p>With Acid 300L from bottom of tubing, shut down pump and shut in casing.</p> <p>12:15hrs -Sting into retainer, set 10,000daN</p> <p>12:17hrs- Begin acid squeeze pumping 25L/min @ 23MPa Once acid at perfs, pressure began to slowly decrease. 13:09-With 1m³ acid squeezed into perfs, 25L/min @ 14.9MPa Let acid soak for 30 min. After 30min soak pressure at 13.6MPa 13:42- Continue to squeeze remainder of acid into perforations- up to 300L/min @ 19.4MPa Over displace acid by 10m³ fresh municipal water containing <4000mg/L TDS Perform feed rate while over displacing acid as follows:</p> <p>25L/min @ 14,600kPa 50L/min @ 14,825kPa 100L/min @ 15,600kPa 150L/min @ 16,400kPa 200L/min @ 17,100kPa 250L/min @ 17,800kPa 300L/min @ 18,500kPa</p> <p>ISIP-14,600kPa 10 min ISIP- 14,200kPa</p>
15:00	16:00	1.00	CEMENT	STIM	P		<p>Pull into neutral and bleed off pressure.</p> <p>Sting out of retainer</p> <p>Rig off SLB treating iron and suck out with vac truck.</p> <p>Crew change rig crew on location. Have cross over with replacement crew and review CPC PJHA. Discuss pulling out of hole and standing tubing hazards.</p>
16:00	18:30	2.50	CEMENT	TRIP	P		Pull out of hole and stand 60.3mm tubing and snap latch stinger. Inspect stinger, looked ok.
18:30	19:15	0.75	CEMENT	TRIP	P		Prep to run in hole with J-latch stinger assembly.
19:15	19:45	0.50	RPEQPT	SFTY	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, StingerJ Latch Operation,</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, EMT + MTV.</p> <p>> All Hands had 2016 Conoco Orientation + Valid Oilfield Tickets. <</p>
19:45	20:45	1.00	RPEQPT	SFTY	P		<p>Held Cross-Over Meeting with Day Crew.</p> <p>Performed Daily Walk Around Lease Inspection.</p>
20:45	22:45	2.00	RPEQPT	TRIP	P		<p>Made up + RIH with Positive J Latch Stinger on 198 Jts of 60.3mm TBG.</p> <p>Tagged Cement Retainer @ 1,901 mKB.</p> <p>Spaced out TBG String. (Buried a 0.65m Pup Jt)</p> <p><> Extra Time Taken due to Extreme Cold.</p>

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Start Time	End Time	Dur (hr)	Op Code	Activity Code	Time P-T-X	Trbl Code	Operation
22:45	02:00	3.25	CEMENT	DHEQ	P		<> Installed Master Valve + TBG Swivel on the TBG. Stung into Cement Retainer. Applied 1/4 Turn to the Left. <> Pull Tested 5,000 daN into J Latch. Set down 1,000 daN below String Weight, Applied 1/4 turn to the Right. <> Pulled J Latch Stinger out of the Retainer. Stung back into Retainer, Applied 1/4 Turn to the Left. <> Pulled 1,000 daN Over String Weight. (Neutral Position in Retainer) > Pressure Tested Annulus to 21.0 MPa. > Pressure Tested TBG to 14 MPa. <> BOTH PRESSURE TESTS HELD 100% FOR 10 MINS. <> Closed Master Valve, Lowered TBG, Stung in & Opened Retainer. - Removed & Drained TBG Swivel. Poured Methanol above Master Valve. - Re-Installed TBG Swivel.
02:00	06:00	4.00	CEMENT	SISW	P		Drained Pump & Lines. Tarped in & Fired up Jet Heater to Heat TBG Stump + BOPs through the Night.

Report Fluids Summary

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	23.50	0.00	17.00	5.00	47.60

Daily Costs

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
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,290.00
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
Completion Fluids & Other Chem	HRN CONTRACTING LTD	G300	1,900.00
Completion Fluids & Other Chem	IMPERIAL OIL PRODUCTS & CHEMICALS DIVISION	G300	2,151.60
Completion Fluids & Other Chem	IMPERIAL OIL PRODUCTS & CHEMICALS DIVISION	G300	1,599.60
Completion Fluids & Other Chem	IMPERIAL OIL PRODUCTS & CHEMICALS DIVISION	G300	259.20
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	2,643.80
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	2,457.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,205.00
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
Downhole Completion Equipment	SCHLUMBERGER CANADA LIMITED	C100	6,762.84
Downhole Completion Equipment	SCHLUMBERGER CANADA LIMITED	C100	1,460.00
Completion Fluids & Other Chem	SRP NORTH VENTURES LTD	G300	358.60
Completion Fluids & Other Chem	SRP NORTH VENTURES LTD	G300	266.60
Completion Fluids & Other Chem	SRP NORTH VENTURES LTD	G300	43.20
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
3/27/2013	Basal Lower Canol, Original Hole	2,059.00	2,060.00	20.0	Squeezed
3/28/2013	Middle Lower Canol, Original Hole	2,023.00	2,024.00	20.0	Squeezed
3/28/2013	Upper Lower Canol, Original Hole	1,993.00	1,994.00	20.0	Squeezed
2/8/2016	Basal Lower Canol, Original Hole	2,068.00	2,070.00	17.5	Squeezed
2/8/2016	Basal Lower Canol, Original Hole	2,068.00	2,070.00	17.5	
2/8/2016	Basal Lower Canol, Original Hole	2,015.00	2,017.00	17.5	
2/8/2016	Basal Lower Canol, Original Hole	2,015.00	2,017.00	17.5	Squeezed
2/14/2016	Upper Lower Canol, Original Hole	1,938.00	1,940.00	17.5	Squeezed
2/14/2016	Upper Lower Canol, Original Hole	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