

## COPRC Mirror Lake P-20

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### **XII. Completions Daily Reports**





# Daily Morning Report

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

Report #: 1  
Report Date: 2/18/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45	API / UWI 200/D-020/L094P1699			License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### Job Information

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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#### Objective

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
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### AFE Cost Summary

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### Daily Information

Report Start Date 2/18/2014 07:30	Report End Date 2/18/2014 17:30	Daily Cost Total (Cost) 952,031.70	Cumulative Cost (Cost) 952,031.70	Personnel Regular Hours (hr) 84.00
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#### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -28	Lease Condition Ice Pad / Snow Covered
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Last 24hr Summary  
MIRU Temporary Office Trailer / Light Tower / Portable flameless heater / Recycle Trailer / Spot 12 8 x 40 sheets matting / Offload Geo Tech / Offload Liner

#### 24hr Forecast

in containment liner / stand 14 tanks in flow back farm

### Day Time Log

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily operations. Conduct CPC PJHA regarding equipment move / set up.
08:00	19:30	11.50	P	MIRU Canol trucking on E-76 location and load out 12 x Clean 400 bbl tanks / Load out 11 - 8x40 matting / Load out 1 - 8 x 40 matting from N20 location / Load out Geo Textile / 20 x 35m Textured liner system and containment walls. Utilize onsite loader to position 12 - 8 x 40 matting for flow back farm. Temporarily spot and rig in HD Mobile office trailer / HD Recycle Trailer / 20 kW large fuel light tower. Position Flameless heater and liner on matting and preheat for night.

### Fluid Summary

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	25.50	0.00	25.50	0.00	25.50

### Daily Cost

BU Desc	Vendor	Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	6,220.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,110.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,810.00
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	94,185.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	4,490.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	4,490.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	14,500.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	14,500.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00

# Daily Morning Report

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

Report #: 1  
 Report Date: 2/18/2014  
 Final Job Status: GAS  
 Final Report?

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
In-House Engineering & Design	CONOCO	V100	285,000.00
Service Rig	CONOCO	E120	40,086.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	67,549.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	2,730.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,245.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	150.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	660.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	360.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	510.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	E120	2,956.00
Surface Equipment / Installation	CORNERSTONE OILFIELD SERVICES LTD	Q300	500.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	3,340
Wellsite Supervision & Engineering	MARQUIS ALLIANCE ENERGY GROUP INC	T130	2,200.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Surface Completion Equipment Rental	MYB CONSTRUCTION LTD	Q300	1,500.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	19,550.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	2,640.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	2,640.00
Completion Fluids & Other Chem	QUADRA CHEMICALS	G300	18,418.66
Completion Fluids & Other Chem	QUADRA CHEMICALS	G300	18,420.19
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Wellsite Supervision & Engineering	S C T OILFIELD CONSULTING LTD	T130	6,861.62
Surface Equipment / Installation	STREAM FLO INDUSTRIES LTD	B110	71,195.23
Welltesting (Eqpmt,Srvcs,PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	186,975.00
Welltesting (Eqpmt,Srvcs,PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	14,500.00
Welltesting (Eqpmt,Srvcs,PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	14,500.00

### CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)
CANOL, Original Hole	1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 1  
Report Date: 2/18/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 2  
Report Date: 2/19/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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Objective  
New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 2/19/2014 07:30	Report End Date 2/19/2014 17:30	Daily Cost Total (Cost) 265,012.50	Cumulative Cost (Cost) 1,217,044.20	Personnel Regular Hours (hr) 120.00
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### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Overcast	Temperature (°C) -31	Lease Condition Ice Pad / Snow Covered
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### Last 24hr Summary

Rig in 10m x 32m flow back containment / Offload 5 x dirty 400 bbl tanks for flow back farm / Spot 24 sheets of swamp matting and stand 4 x clean 400 bbl tanks.

### 1hr Forecast

Set in 400 bbls in containment / Haul in and stand remaining clean 400 bbl tanks / Begin hauling water from E-76 location to clean tank farm

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily activities Conduct CPC PJHA regarding rigging in liner / berm system / setting in tank farm / weather conditions and frequent warm up breaks (-38 with wind)
08:00	19:30	11.50	P	Spot and rig in RCS crew and clear matting of snow / ice. Roll out barrier GeoTextile / Stand walls and secure / Lap over liner and secure Offload 5 x Dirty 400 bbl tanks and stand outside containment Utilize loader and spot 24 x 14 sheets of swamp matting for clean tank farm Offload 4 x Clean 400 bbl tanks and stand on swamp matting  NOTE: Hydraulic leak on 90T Crane preventing use (captured and contained) Demobilize crane to staging area at km 38.5 for repair NOTE: Hydraulic leak on Bed truck winch preventing use (captured and contained) Demobilize bed truck to Norman Wells for repair

### FLUID SUMMARY

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

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	***VENDOR NOT LISTED***	P100	1,000.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	4,130.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,030.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	4,480.00
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	31,395.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	3,325.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00



**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 2  
Report Date: 2/19/2014  
Final Job Status: GA  
Final Report?

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	MARQUIS ALLIANCE ENERGY GROUP INC	T130	1,100.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Welltesting (Eqmnt,Srvcs,PTA,Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	193,207.50
<b>CUMULATIVE JOB ELAPSED GAS BY ZONE</b>			

## CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m <sup>3</sup> )
CANOL, Original Hole	
<b>PERFORATIONS</b>	1,627.510

## **PERFORATIONS**

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00		6.0 Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00		6.0 Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00		6.0 Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00		6.0 Open - Flowing
3/7/2014	CANOL, Original Hole	3,040.00	3,041.00		6.0 Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00		6.0 Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00		6.0 Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00		6.0 Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00		6.0 Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00		6.0 Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00		6.0 Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00		6.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00		10.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00		10.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00		10.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00		10.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00		10.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00		10.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00		6.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00		6.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00		6.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00		6.0 Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,516.00	2,517.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,497.00	2,498.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,478.00	2,479.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,458.00	2,459.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,439.00	2,440.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,419.00	2,420.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,400.00	2,401.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,381.00	2,382.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,361.00	2,362.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,342.00	2,343.00		6.0 Open - Flowing
10/2014	CANOL, Original Hole	2,322.00	2,323.00		6.0 Open - Flowing
0/2014	CANOL, Original Hole	2,303.00	2,304.00		6.0 Open - Flowing
0/2014	CANOL, Original Hole	2,284.00	2,285.00		6.0 Open - Flowing
0/2014	CANOL, Original Hole	2,264.00	2,265.00		6.0 Open - Flowing



# Daily Morning Report

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

Report #: 2  
Report Date: 2/19/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 3  
Report Date: 2/20/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60
JOB INFORMATION					
Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86		
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 2/20/2014 07:30	Report End Date 2/20/2014 17:30	Daily Cost Total (Cost) 473,237.50	Cumulative Cost (Cost) 1,690,281.70	Personnel Regular Hours (hr) 180.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284				Rig RIGLESS, RIGLESS 1	
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -36	Lease Condition Ice Pad / Snow Covered	
Last 24hr Summary Set in 14 x 400 bbls in containment / Haul in and stand remaining clean 400 bbl tanks / Begin hauling water from E-76 location to clean tank farm					
24hr Forecast Out frac tank farm on E-76 location and begin staging in field at km 45 for rig up on location					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding offloading tanks / material handling / offloading water	
08:00	17:30	9.50	P	Spot and rig in Canol Trucking Contain bed loading clean / dirty tanks to location from km 45 staging area. Utilize Canol 50T picker to position tanks into containment farm. Place total 14 x 400 bbl tanks in containment Stand total 12 x 400 bbl tanks on swamp matting for frac tank farm. Spot and rig in N.T.S. and begin hauling in clean warm water from E-76 Location	
FLUID SUMMARY					
Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	165.00	14.00			25.50
DAILY COST					
BU Desc	Vendor			Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	***VENDOR NOT LISTED***			P100	1,000.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC			P100	3,110.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC			P100	3,110.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC			P100	2,030.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC			P100	5,530.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC			P100	5,100.00
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC			N110	313,595.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC			Q300	2,275.00
Service Rig	CANOL OILFIELD SERVICES INC			E120	2,245.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC			G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC			G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC			G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC			G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC			G300	2,050.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC			G300	2,050.00
Completion Fluids & Other Chem	CORNERSHOT OILFIELD SERVICES LTD			E120	1,700.00
Service Rig	CORNERSHOT OILFIELD SERVICES LTD			E120	2,200.00

# Daily Morning Report

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

Report #: 3  
 Report Date: 2/20/2014  
 Final Job Status: GAS  
 Final Report?

DAILY COST		BU Desc	Vendor	Activity Code	Amount (Cost)
Service Rig		CORNERSTONE OILFIELD SERVICES LTD		E120	280.00
Surface Completion Equipment Rental		CORNERSTONE OILFIELD SERVICES LTD		Q300	195.00
Wellsite Supervision & Engineering		DEN JAR CONSULTING LTD		T130	1,670.00
Wellsite Supervision & Engineering		MARQUIS ALLIANCE ENERGY GROUP INC		T130	1,100.00
Surface Completion Equipment Rental		RIGSAT COMMUNICATIONS INC		Q300	15.00
Surface Completion Equipment Rental		SAHTU RCS ENERGY SERVICES LTD		Q300	6,120.00
Welltesting (Eqpmnt,Srvcs,PTA,Gov't Subs)		WEATHERFORD CANADA PARTNERSHIP		M220	105,952.50
<b>CUMULATIVE JOB FLARED GAS BY ZONE</b>					

Zone	Volume Gas Total (E3m³)
CANOL, Original Hole	1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00		
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 4  
Report Date: 2/21/2014  
Final Job Status: GAS  
Final Report? Yes

### SELL HEADER INFORMATION

Country CANADA	State/Province N.W.T.	Region / Division WCBU	District NEW VENTURES	Field Name Mirror Lake	Field Code
Surface Legal Location P-20 65-00 126-45	API / UWI 200/D-020/L094P1699				License No. EL 470
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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#### Objective

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 2/21/2014 07:30	Report End Date 2/21/2014 17:30	Daily Cost Total (Cost) 175,372.00	Cumulative Cost (Cost) 1,865,653.70	Personnel Regular Hours (hr) 560.00
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284				Rig RIGLESS, RIGLESS 1
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -40	Lease Condition Ice Pad / Snow Covered

#### Last 24hr Summary

Continue hauling in clean warm water from E76 / Offload 84 m<sup>3</sup> Methanol / Begin rig out of tank farm on E-76 and staging equipment to km 45

#### 24hr Forecast

Continue staging tanks / matting / transferring water from E-76

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily operations. Conduct tailgate safety meeting with trucks prior to unloading methanol
08:00	17:30	9.50	P	Spot and rig in Initial Trucking / Eldon's Transport containing 84 m <sup>3</sup> combined Methanol Preheat storage tanks in flow back containment / bond and ground all tanks in farm Offload 29 m <sup>3</sup> into North Tank for Coil Tubing Use Offload 55 m <sup>3</sup> into South Tank for Frac Use  E-76 Continue hauling fresh warm water from E-76 to location for frac use. Begin rigging out frac tank farm and stage at km 45 staging area.

### FLUID SUMMARY

Fluid	To lease (m <sup>3</sup> )	From lease (m <sup>3</sup> )	To well (m <sup>3</sup> )	From well (m <sup>3</sup> )	Left to recover (m <sup>3</sup> )
FRESH WATER	331.50	0.00			25.50

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	480.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,110.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,210.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,960.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,410.00
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	31,395.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00

# Daily Morning Report

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

Report #: 4  
 Report Date: 2/21/2014  
 Final Job Status: GAS  
 Final Report? Y

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	MARQUIS ALLIANCE ENERGY GROUP INC	T130	1,100.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	20,527.50
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	19,772.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	17,272.50
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	10,290.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	RON'S AUTO SERVICE LTD	Q300	7,510.00
Welltesting (Eqmnt,Srvcs,PTA,Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	29,730.00

### CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)
CANOL, Original Hole	1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 4  
Report Date: 2/21/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 5  
Report Date: 2/22/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45	API / UWI 200/D-020/L094P1699			License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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#### Objective

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 2/22/2014 07:30	Report End Date 2/22/2014 17:30	Daily Cost Total (Cost) 205,168.50	Cumulative Cost (Cost) 2,070,822.20	Personnel Regular Hours (hr) 192.00
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#### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -40	Lease Condition Ice Pad / Snow Covered
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#### Last 24hr Summary

Continue staging tanks / matting at km 45 staging area / transferring water from E-76 / Haul in water from water source 5 / Move in small rentals

#### 24hr Forecast

gin setting in matting for second clean tank farm

### JULY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily activites. Conduct CPC PJHA regarding equipment moving / material handling
08:00	17:30	9.50	P	Spot and rig in Canol trucking on E-76 location. Spot and rig in N.T.S. trucking on E-76 location Continue loading out warm unused frac water from E-76 and move to location Load out remaining 3 x 400 bbl tanks / 10 - 8 x 40 sheets matting and move to staging area @ km 45 / haul in segregated garbage bin from lower km 6 rack site Haul in 2 x Large Fuel 20 kVW light towers Haul in 2 x Wheeled light stands Haul in I.E.S. work trailer Haul in total 525.5 m³ Warm unused frac water from E-76 Location. Haul in 131.5 m³ lake water from water source 5 and mix with half warm water tanks on location. Frac Farm #2 - Full with 12 tanks @ 55 m³  Discuss daily operations with Drilling Rig Supervisor, Richard Turgeon, USIT log complete / rig running Tie Back string today.

### FLUID SUMMARY

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	244.50	10.00			25.50

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,410.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,030.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	5,720.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,030.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	5,140.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Surface Stimulation Services	CANOL OILFIELD SERVICES INC	N110	31,395.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	27,500.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00



# Daily Morning Report

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

Report #: 5  
Report Date: 2/22/2014  
Final Job Status: GAS  
Final Report? :

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	2,050.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,110.00
Service Rig	CONOCO	E120	40,086.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	MARQUIS ALLIANCE ENERGY GROUP INC	T130	1,100.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Trucking/Hauling/ Hot Shot Services	NCSG CRANE & HEAVY HAUL SERVICES LTD	P100	50,610.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Welltesting (Eqmnt,Srvcs,PTA,Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	7,432.50

### CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)
CANOL, Original Hole	1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 5

Report Date: 2/22/2014

Final Job Status: GAS

Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 6

Report Date: 2/23/2014

Final Job Status: GAS

Final Report? Yes

**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 P-20 65-00 126-45	API / UWI 200/D-020/L094P1699			License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

**JOB INFORMATION**

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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**Objective**

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
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**AFE COST SUMMARY**

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

**DAILY INFORMATION**

Report Start Date 2/23/2014 07:30	Report End Date 2/23/2014 17:30	Daily Cost Total (Cost) 109,937.50	Cumulative Cost (Cost) 2,180,759.70	Personnel Regular Hours (hr) 216.00
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**Daily Contacts**

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theom LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -33	Lease Condition Ice Pad / Snow Covered
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**Last 24hr Summary**

Continue staging in 8 x 40 matting / miscellaneous loads / ground anchors

**24hr Forecast**

Rig setting in matting for second clean tank farm

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Activity
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PHJA regarding handling fluids / equipment
08:00	17:30	9.50	P	Spot and rig in N.T.S. Trucking and move 20 m <sup>3</sup> warm water to methanol tank / load out 20 m <sup>3</sup> from water source 5 to tank farm Load out remaining matting / test equipment / zero ground disturbance anchors / 10 x 55m containment walls and stage at km 45 staging area and on P-20 location.  NOTE: Load out PBN Tundra 1400 flameless heater to Norman Wells for repairs / return  NOTE: Profile complete on water source 5 with 59" ice rated > 64,000 kg's / Drilled two withdrawl holes with one having 37" free water below ice and one having 25" free water below ice.  NOTE: Profile complete on water source 4 with 40" ice rated +/- 40,000 kg's / Drilled 6 withdrawl holes with one being solid / varying in depths up to 24" free water below ice. Construction continuing ice flooding daily.

**FLUID SUMMARY**

Fluid	To lease (m <sup>3</sup> )	From lease (m <sup>3</sup> )	To well (m <sup>3</sup> )	From well (m <sup>3</sup> )	Left to recover (m <sup>3</sup> )
FRESH WATER	20.00	0.00			25.50

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,140.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,590.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	4,720.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,030.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	4,510.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	0.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	1,985.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	1,985.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	1,985.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	1,985.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	1,985.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,050.00

# Daily Morning Report

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

Report #: 6  
 Report Date: 2/23/2014  
 Final Job Status: GA  
 Final Report?

DAILY COST					
BU Desc	Vendor	Activity Code	Amount (Cost)		
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,050.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00		
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00		
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00		
Wellsite Supervision & Engineering	MARQUIS ALLIANCE ENERGY GROUP INC	T130	1,100.00		
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00		
Fracture Stimulation Services	MYB CONSTRUCTION LTD	N110	31,395.00		
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	8,575.00		
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	17,840.00		
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00		
Welltesting (Eqmnt, Srvcs, PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	7,432.50		
<b>CUMULATIVE JOB FLARED GAS BY ZONE</b>					
Zone CANOL, Original Hole	<b>Volume Gas Total (E3m³)</b>				
			1,627.510		
<b>PERFORATIONS</b>					
Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 6  
Report Date: 2/23/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Density (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 7  
Report Date: 2/24/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m)	KB-CF (m) 5.20	KB-TF (m) 5.40	Total Depth (mKB) 3,152.00
PBTD (All) (mKB) Original Hole - 3,129.60					
JOB INFORMATION					
Job Category COMPLETIONS		Primary Job Type INITIAL COMPLETION		Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 2/24/2014 07:30	Report End Date 2/24/2014 17:30	Daily Cost Total (Cost) 204,851.55	Cumulative Cost (Cost) 2,385,611.25	Personnel Regular Hours (hr) 564.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284					
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -30	Lease Condition Ice Pad / Snow Covered	
Last 24hr Summary Begin setting in matting for second clean tank farm / Offload 60 m³ Lake Water / Offload m³ methanol					
24hr Forecast Complete setting in matting / install geo and liner on matting / erect containment					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
07:30	08:00	0.50	P	Safety and procedural meeting with all location regarding daily activities. Conduct CPC PJHA regarding fluid hauling / equipment handling	
08:00	17:30	9.50	P	Spot and rig in N.T.S. / Spot and rig in Clean Harbors Mobile Boiler / Spot and rig in HRN Loader Offload 60 m³ water from water source 5. Heat water in Coil Tubing work tank with mobile steamer Offload 60 m³ Methanol into storage tank in dirty tank farm = 115 m³ raw methanol on location. Begin laying out 5 - 8 x 40 matting for frac tank farm containment / reposition liner and geo textile and preheat with flameless heater	
FLUID SUMMARY					
Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	120.00	11.00			25.50
DAILY COST					
BU Desc	Vendor	Activity Code	Amount (Cost)		
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,110.00		
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,990.00		
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,662.50		
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	1,985.00		
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	31,395.00		
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00		
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	390.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00		
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00		

# Daily Morning Report

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

Report #: 7  
 Report Date: 2/24/2014  
 Final Job Status: G  
 Final Report?

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,595.00
Service Rig	HRN CONTRACTING LTD	E120	2,000.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	17,840.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	13,770.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	13,770.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	1,151.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	1,100.00
Completion Fluids & Other Chem	PBN ENERGY SERVICES LTD	G300	19,390.00
Completion Fluids & Other Chem	QUADRA CHEMICALS	G300	19,513.59
Completion Fluids & Other Chem	QUADRA CHEMICALS	G300	19,511.96
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	4,080.00
Welltesting (Eqpmt, Srvcs, PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	11,782.50

### CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)
CANOL, Original Hole	1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 7  
Report Date: 2/24/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Bltn (mKB)	Shot Dens (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing



**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 8  
Report Date: 2/25/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60
JOB INFORMATION					
Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION		Secondary Job Type RIGLESS		Total Field Estimate (Cost) 20,251,383.86
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 2/25/2014 07:30	Report End Date 2/25/2014 17:30	Daily Cost Total (Cost) 212,387.35	Cumulative Cost (Cost) 2,597,998.60	Personnel Regular Hours (hr) 240.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284					
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -29	Lease Condition Ice Pad / Snow Covered	
Last 24hr Summary Complete setting in matting for main frac tank farm / preheat liner - geo textile					
1hr Forecast tall frac tank berm system / begin installing frac tanks in berthing system / reposition shacks from E76 location					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding equipment handling	
08:00	17:30	9.50	P	Spot and rig in HRN loader Spot remaining 20 - 8 x 40 sheets matting for frac tank farm containment Spot geo textile and liner on matting and preheat for night. Spot and rig in RCS Place required placards on tanks with fluids / Spot second flameless heater at km 28.5 staging area and preheat RCS generator and NOV generator  NOTE: Drilling rig disassembled and off location. Shacks / cuttings / ramp and auxiliary equipment remaining awaiting load out. NOTE: Awaiting lease prep for completions	
FLUID SUMMARY					
Fluid	To lease (m³) 0.00	From lease (m³) 0.00	To well (m³) 0.00	From well (m³) 0.00	Left to recover (m³) 25.50
FRESH WATER					
DAILY COST					
BU Desc		Vendor	Activity Code	Amount (Cost)	
Trucking/Hauling/ Hot Shot Services		CANOL OILFIELD SERVICES INC	P100	1,560.00	
Trucking/Hauling/ Hot Shot Services		CANOL OILFIELD SERVICES INC	P100	780.00	
Trucking/Hauling/ Hot Shot Services		CANOL OILFIELD SERVICES INC	P100	1,200.00	
Trucking/Hauling/ Hot Shot Services		CANOL OILFIELD SERVICES INC	Q300	2,275.00	
Surface Completion Equipment Rental		CANOL OILFIELD SERVICES INC	S990	3,500.00	
Pressure Truck/Hot Oiler		CANOL OILFIELD SERVICES INC	N110	31,395.00	
Fracture Stimulation Services		CANOL OILFIELD SERVICES INC	P100	1,170.00	
Trucking/Hauling/ Hot Shot Services		CANOL OILFIELD SERVICES INC	E120	2,245.00	
Service Rig		CANOL OILFIELD SERVICES INC	E120	1,700.00	
Service Rig		CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00	
Service Rig		CORNERSTONE OILFIELD SERVICES LTD	E120	280.00	
Service Rig		CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00	
Surface Completion Equipment Rental		CORNERSTONE OILFIELD SERVICES LTD	T130	1,670.00	
Wellsite Supervision & Engineering		DEN JAR CONSULTING LTD	T130	1,595.00	
Wellsite Supervision & Engineering		DON WILLIAMS - BIRD DOG	T130	8,760.00	
Fracture Stimulation Services		ISOLATION EQUIPMENT SERVICES INC	N110		

# Daily Morning Report

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

Report #: 8  
 Report Date: 2/25/2014  
 Final Job Status: C  
 Final Report?

DAILY COST					
BU Desc	Vendor	Activity Code	Amount (Cost)		
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00		
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	96,340.00		
Rig Camp	PBN ENERGY SERVICES LTD	E500	1,655.00		
Rig Camp	PBN ENERGY SERVICES LTD	E500	1,550.00		
Completion Fluids & Other Chem	QUADRA CHEMICALS	G300	19,509.52		
Completion Fluids & Other Chem	QUADRA CHEMICALS	G300	19,510.33		
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00		
Surface Completion Equipment Rental	RON'S AUTO SERVICE LTD	Q300	500.00		
Welltesting (Eqmnt,Srvcs,PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	11,782.50		
<b>CUMULATIVE JOB FLARED GAS BY ZONE</b>					
Zone	Volume Gas Total (E3m³)				
CANOL, Original Hole					1,627.510
<b>PERFORATIONS</b>					
Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00		
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 8  
Report Date: 2/25/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing



**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 9  
Report Date: 2/26/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60
JOB INFORMATION					
Job Category COMPLETIONS		Primary Job Type INITIAL COMPLETION		Secondary Job Type RIGLESS	
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 2/26/2014 07:30	Report End Date 2/26/2014 18:30	Daily Cost Total (Cost) 144,130.00	Cumulative Cost (Cost) 2,742,128.60	Personnel Regular Hours (hr) 380.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284					
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -25	Lease Condition Ice Pad / Snow Covered	
Last 24hr Summary Install frac tank berm system / installing 18 frac tanks in berthing system / reposition shacks, septic, power from E76 location / Crib in wellhead area and back fill with snow and water in.					
r Forecast RU WFT test equipment / MIRU HD boiler / Install frac manifold					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily activites. Conduct CPC PJHA regarding equipment handling / rigging in equipment	
08:00	18:30	10.50	P	Spot and rig in Sahtu RCS labor crew and install 10 x 55 x 1m containment for frac tank farm Spot and rig in HRN loader and continue unloading equipment / material handling as required Spot and rig in HRN grader with Marquis environmental and begin lease clean up in preparation for completion operations Spot and rig in Canol Trucking and spot Engineering Wellsite / Superintendant Wellsite / Command Center / Safety Meeting shack / 18 x 400 bbl tanks placed in containment via NCSG / double stack frac manifold in containment / NOV x 250 KVW generator / RCS x 115 KVW generator / black opal septic / enviro sort garbage bin.  NOTE: Drilling equipment off location - Wrangler bins and sawdust remaining	
FLUID SUMMARY					
Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	0.00	0.00	0.00	0.00	25.50
DAILY COST					
BU Desc	Vendor	Activity Code	Amount (Cost)		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	10,520.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	10,520.00		
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,430.00		
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00		
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00		
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	31,395.00		
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,880.00		
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,960.00		
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	480.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00		
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	E120	900.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	T130	1,670.00		
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD				

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 9  
Report Date: 2/26/2014  
Final Job Status: G  
Final Report?

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,595.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	250.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	50.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	N110	4,190.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	Q300	600.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	29,032.50
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	17,840.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	2,000.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	RONS AUTO SERVICE LTD	Q300	500.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	11,782.50
<b>CUMULATIVE JOB FLARED GAS BY ZONE</b>			

Zone

CANOL, Original Hole

Volume Gas Total (E3m³)

1,627.510

**PERFORATIONS**

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 9  
Report Date: 2/26/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 10  
Report Date: 2/27/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60
JOB INFORMATION					
Job Category COMPLETIONS		Primary Job Type INITIAL COMPLETION		Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 2/27/2014 06:30	Report End Date 2/27/2014 18:30	Daily Cost Total (Cost) 485,781.00	Cumulative Cost (Cost) 3,227,909.60	Personnel Regular Hours (hr) 556.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284					Rig RIGLESS, RIGLESS 1
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Overcast	Temperature (°C) -20	Lease Condition Ice Pad / Snow Covered	
Last 24hr Summary Spot WFT test equipment / MIRU HD boiler / Split and rig in frac manifold to tank farm A / B					
1hr Forecast Continue rig in WFT Test equipment					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
06:30	07:00	0.50	P	Safety and procedural meeting with all on location regarding daily activites. Conduct CPC PJHA regarding MIRU test equipment / multiple operations	
07:00	18:30	11.50	P	Spot and rig in Canol Trucking / HRN Loader / Marquis Environmental / WFT Testing / Sahtu RCS / HD Boiler Spot WFT Test equipment as per OH&S / WFT and CPC policies and procedures. 675 psi 4 phase high stage / 285 psi 2 stage hot head / 3" x 10 K junk catcher / 3" x 10 K manifold shack / tool houses / compressor building / Pipe Skids / 2 x 60' portable flare stacks Begin spotting oak matting base for flare stacks. Haul in IES frac head and buffalo head c/w remote isolation valve S.I.P.C.P. - 0 kPa Remove 69 mPa turtle cap and install 69 mPa Gate Valve and secure (spec) to THF via IES torque tools. Spot and begin rigging in HD 175 HP Boiler / MIRU Flameless heater and heat boiler for night. Remove single 8' section 12" manifold and set in second clean tank farm / Rig in frac manifold to first clean tank farm.  NOTE: MIRU Trophy Buck tank truck unable to offload 25 m <sup>3</sup> 28% HCl in tank #17 due to freezing issue with external valve. Hose rolled into 400 bbl tank / disconnected and secured for night  NOTE: Water Resource officer Katherine Ades with AANDC on location for walk around inspection with WSS. No questions or concerns at the time of inspection.	
FLUID SUMMARY					
Fluid	To lease (m <sup>3</sup> )	From lease (m <sup>3</sup> )	To well (m <sup>3</sup> )	From well (m <sup>3</sup> )	Left to recover (m <sup>3</sup> )
FRESH WATER	190.00	14.00			25.50
DAILY COST					
BU Desc	Vendor	Activity Code	Amount (Cost)		
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,430.00		
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00		
Service Rig	CANOL OILFIELD SERVICES INC	E120	3,420.00		
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	31,395.00		
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	24,530.00		
Service Rig	CONOCO	E120	40,086.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00		
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	T130	1,670.00		
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD				

# Daily Morning Report

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

Report #: 10  
 Report Date: 2/27/2014  
 Final Job Status: C  
 Final Report?

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,595.00
	FRONTIERMEDEX CANADA I/P/W EXLOGS SAHTU LTD		0.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	500.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	50.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	N110	5,510.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	Q300	500.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	Q300	600.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	17,840.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	2,000.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	RON'S AUTO SERVICE LTD	Q300	500.00
Fracture Stimulation Services	SCHLUMBERGER CANADA LIMITED	N110	310,400.00
Welltesting (Eqpmt, Srvcs, PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	18,965.00
Welltesting (Eqpmt, Srvcs, PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	14,500.00

### CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)
CANOL, Original Hole	1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00		
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 10  
Report Date: 2/27/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 11  
Report Date: 2/28/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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### Objective

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 2/28/2014 06:30	Report End Date 2/28/2014 18:30	Daily Cost Total (Cost) 653,541.86	Cumulative Cost (Cost) 3,881,451.46	Personnel Regular Hours (hr) 468.00
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### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -25	Lease Condition Ice Pad / Snow Covered
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### Last 24hr Summary

Continue rig in WFT Test equipment / Rig in frac head / Rig in dual stage work platform / Rig in HD boiler / Complete rig in of water management / continue hauling water to tank farm

### Weather Forecast

Continue rig in WFT Test equipment / Heat wellhead / Pressure test Frac Head / Pressure test intermediate casing

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
06:30	07:00	0.50	P	Safety and procedural meeting with all on location regarding daily activites. Conduct CPC regarding multiple operations - rigging in test equipment / hauling fluids / material handling / product handling
07:00	18:30	11.50	P	Continue rigging in WFT test package Continue rigging in HD 175HP boiler Install and torque to spec IES frac head as follows: 7 1/16" x 4 1/16" crossover 4 1/16" x 10K Gate Valve 2 port flow block with single access valve on one side and 2 flow valves to test line 4 1/16" x 10K Hydraulic valve 4 port buffalo head c/w 10K valves on each outlet 4 1/16" x 10K swab valve with test cap above Offload 25 m³ 28% HCl into acid storage tank #17 in frac tank farm A Offload second portable washroom Complete rig in of water management system Spot coil twin pump. Rig up dual stage work platform

### FLUID SUMMARY

Fluid	To lease (m³) 341.00	From lease (m³) 12.10	To well (m³)	From well (m³)	Left to recover (m³) 25.50
FRESH WATER					

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Surface Completion Equipment Rental	BOREALIS COMMUNICATIONS INC	Q300	958.00
Surface Completion Equipment Rental	BOREALIS COMMUNICATIONS INC	Q300	1,550.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,430.00
sure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	7,410.00
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	31,395.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,030.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,966.41
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00

# Daily Morning Report

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

Report #: 11  
 Report Date: 2/28/2014  
 Final Job Status: G  
 Final Report?

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	6,600.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	280.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	195.00
Rig Camp	CORNERSTONE OILFIELD SERVICES LTD	E500	8,008.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,595.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	0.00
Safety Equipment & Services	HODGSON'S CONTRACTING (2005) LTD	T430	60,600.65
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	500.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	50.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	N110	5,510.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	Q300	500.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Wellsite Supervision & Engineering	MINAULT ENERGY SERVICES LTD	T130	1,595.00
Surface Completion Equipment Rental	MYB CONSTRUCTION LTD	Q300	2,990.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	Q300	600.00
Trucking/Hauling/ Hot Shot Services	NCSG CRANE & HEAVY HAUL SERVICES LTD	P100	44,480.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	17,840.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	12,250.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	2,000.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	5,600.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	RONS AUTO SERVICE LTD	Q300	500.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	55,484.
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	19,760.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	24,480.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	90,780.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	15,600.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	5,200.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	39,000.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	1,950.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	6,500.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	6,500.00
Surface Completion Equipment Rental	SAHTU RCS ENERGY SERVICES LTD	Q300	113,359.80
Service Rig	TRIDENT OILFIELD SERVICES LTD	E120	23,400.00
Welltesting (Eqpmt, Svcs, PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	600.00
<b>CUMULATIVE JOB FLARED GAS BY ZONE</b>			18,965.00

### Zone

Zone	Volume Gas Total (E3m³)	
CANOL, Original Hole		1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing

# Daily Morning Report

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

Report #: 11  
 Report Date: 2/28/2014  
 Final Job Status: GAS  
 Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 12  
Report Date: 3/1/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60
JOB INFORMATION					
Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION		Secondary Job Type RIGLESS		Total Field Estimate (Cost) 20,251,383.86
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 3/1/2014 07:30	Report End Date 3/1/2014 18:30	Daily Cost Total (Cost) 116,714.00	Cumulative Cost (Cost) 3,998,165.46	Personnel Regular Hours (hr) 492.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714				Rig RIGLESS, RIGLESS 1	
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -22	Lease Condition Ice Pad / Snow Covered	
Last 24hr Summary Continue rig in WFT Test equipment / Heat wellhead / spot sand chiefs and hopper / rig in Hurricane Dustless System					
24hr Forecast of coil tbg, heat water for pressure testing, Move in Schlumberger frac equipment, Position anchors and other equipment around location					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
07:30	08:00	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding multiple operations / fluid handling / material handling	
08:00	18:00	10.00	P	Continue rigging in WFT test package Continue rigging in HD 175HP boiler Tarp and cover dual stage work platform with steam heaters enclosed to heat IES frac head and related well head parts Applied heat to well head and related parts, and ran heat to WFT test equipment Moved in and spotted Schlumberger 3 x sand chief and hopper. Positioned Hurricane dust prevention unit and rigged in to Schlumberger sand chief Offload 25 m³ 28% HCl into acid storage tank #17 in frac tank farm "A" = 50 m³ on location Moved 30 m³ of methanol into tank #15 and tank #16 in frac tank farm "A" for a total of 60 m³ transferred Mixed 20 m³ of fresh water into tank #15 and tank #16 to giving us a total of 100 m³ of 60% methanol 40% water blend	
18:00	18:30	0.50	P	WSS Crew Change, Conduct handover, review ERP and night Operations.	
18:30	06:00	11.50	P	Conduct walk-around inspections to ensure equipment running issue free through-out the night, visually inspect for leaks in and around equipment and tank farms periodically.	
FLUID SUMMARY					
Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	345.00	7.09			25.50
DAILY COST					
BU Desc	Vendor	Activity Code	Amount (Cost)		
Surface Completion Equipment Rental	BOREALIS COMMUNICATIONS INC	Q300	2,000.00		
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,670.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00		
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00		
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00		
Fracture Stimulation Services	CORNERSTONE OILFIELD SERVICES LTD	N110	30,000.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00		
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00		

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 12  
Report Date: 3/1/2014  
Final Job Status: G  
Final Report? \

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	244.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	215.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,595.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	0.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	2,300.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	450.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	Q300	50.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	N110	5,510.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	Q300	500.00
Wellsite Supervision & Engineering	MINAULT ENERGY SERVICES LTD	P100	1,000.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	T130	1,595.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	Q300	600.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	G300	23,720.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	2,000.00
Surface Completion Equipment Rental	RONS AUTO SERVICE LTD	Q300	15.00
Service Rig	TRIDENT OILFIELD SERVICES LTD	E120	500.00
Welltesting (Eqpmnt,Srvcs,PTA,Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	200.00
<b>CUMULATIVE JOB FLARED GAS BY ZONE</b>			18,965.00

Zone

CANOL, Original Hole	Volume Gas Total (E3m³)	1,627.510
<b>PERFORATIONS</b>		

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 12  
Report Date: 3/1/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone <sup>1</sup>	Top (mKB)	Bltr (mKB)	Shot Dens (shots/m)	Current Status
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 13  
Report Date: 3/2/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60
JOB INFORMATION					
Job Category COMPLETIONS		Primary Job Type INITIAL COMPLETION		Secondary Job Type RIGLESS	
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 3/2/2014 06:00	Report End Date 3/3/2014 06:00	Daily Cost Total (Cost) 392,923.13	Cumulative Cost (Cost) 4,391,088.59	Personnel Regular Hours (hr) 492.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714					
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -24	Rig RIGLESS, RIGLESS 1 Lease Condition Ice Pad / Snow Covered	
Last 24hr Summary Moved in Coil tbg unit, Positioned anchors, Applied heat to Coil BOP stack Continue rigging in test equipment, SCVF /no vent flow indicated. Rolled meth tank • Coil TBG use, install heat tracer and insulate all surface lines and complete boiler rig in.					
• Forecast Move in and spot Frac equipment, Pressure test Frac head/Coil tbg BOP, Coil tbg clean out					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
06:00	06:30	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding multiple operations / fluid handling / material handling/ spotting equipment	
06:30	18:00	11.50	P	Continue rigging in WFT test package Continue rigging in HD 175HP boiler Moved in and spotted Coil tubing unit and laid lines Off loaded air trailer Positioned all coil tbg anchors with 3 - 2 tone cement blocks on each for a total of 6 tonne per anchor Applied heat to coil tbg BOP and hydraulics Installed on SCVF adaptor with 1 inch of enviromentally friendly fluid (seen NO bubbles in 10 min)	
18:00	18:30	0.50	P	WSS Crew Change, Conduct handover, review ERP and night Operations.	
18:30	19:00	0.50	P	Conduct Safety and procedural meeting with all on location regarding daily activities. Review CPC PJHA regarding multiple operations, securing and insulating surface lines, heating water/meth tank and function testing hydraulic wellhead valve.	
19:00	06:00	11.00	P	Rig in remaining tracer line on testing iron, and return lines to HD Boiler. Pressure test steam lines with 120psi steam. o.k. Wrap up all testing iron with insulation. Function test 101.6mm (4 1/16") 69 MPa hydraulic master valve. good test, valve left in open position (locked). Tidy up location, removed trip hazards and picked up un-used equipment. Meth/water heated to 20c in preparation for pressure testing frac-head, Testing iron and coil Bop's in morning. Conduct walk around inspections through-out the night checking for leaks, down equipment, etc...	
FLUID SUMMARY					
Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	0.00	0.00	0.00	0.00	25.50
DAILY COST					
BU Desc	Vendor	Activity Code	Amount (Cost)		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	4,410.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00		
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00		
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,430.00		
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00		
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00		

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 13  
Report Date: 3/2/2014  
Final Job Status: C  
Final Report? Y

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	30,000.00
Service Rig	CONOCO	E120	40,086.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	244.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	215.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,595.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	0.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	450.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Fracture Stimulation Services	HRN CONTRACTING LTD	Q300	50.00
Surface Completion Equipment Rental	ISOLATION EQUIPMENT SERVICES INC	N110	5,760.00
Trucking/Hauling/ Hot Shot Services	MACKAY RANGE DEVELOPMENT CORP	Q300	500.00
Wellsite Supervision & Engineering	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Surface Completion Equipment Rental	MINAULT ENERGY SERVICES LTD	T130	1,595.00
Completion Fluids & Other Chem	NAVIGATOR ENERGY SERVICES LTD	Q300	600.00
Surface Completion Equipment Rental	NORTHERN TRUCK SERVICES (1994) LTD	G300	23,720.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,000.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	RON'S AUTO SERVICE LTD	Q300	500.00
Service Rig	SCHLUMBERGER CANADA LIMITED	E120	141,463.13
Service Rig	TRIDENT OILFIELD SERVICES LTD	E120	200.00
Completion Fluids & Other Chem	TROPHY BUCK OILFIELD SERVICES LTD	G300	48,200.00
Completion Fluids & Other Chem	TROPHY BUCK OILFIELD SERVICES LTD	G300	48,200.00
Welltesting (Eqpmt,Srvcs,PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	18,965.00

**CUMULATIVE JOB FLARED GAS BY ZONE**

Zone	Volume Gas Total (E3m³)	
CANOL, Original Hole		1,627.510

**PERFORATIONS**

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 13  
Report Date: 3/2/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 14  
Report Date: 3/3/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60
JOB INFORMATION					
Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION		Secondary Job Type RIGLESS		Total Field Estimate (Cost) 20,251,383.86
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 3/3/2014 06:00	Report End Date 3/4/2014 06:00	Daily Cost Total (Cost) 251,896.52	Cumulative Cost (Cost) 4,642,985.11	Personnel Regular Hours (hr) 492.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theron LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714				Rig RIGLESS, RIGLESS 1	
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -26	Lease Condition Ice Pad / Snow Covered	
<p><b>Last 24hr Summary</b> Rigged in and pressure tested Coil TBG BOP equipment, Run in hole c/w 98mm mill and clean out to PBTD (3129 mKB). Pull out of the hole, winterize coil and face lines.</p> <p><b>Weather Forecast</b> Run in hole with coil tbg and TCP assembly, perforate intervals as per Theron Legarde, POOH and rig down coil equipment, prep for frac operations.</p>					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
06:00	06:30	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding multiple operations / fluid handling / material handling/ spotting equipment. Conduct lease inspect to check lease conditions, leaks, spills, trip hazards, etc.	
06:30	18:00	11.50	P	Continue with rigging in coil BOP hoses, Insured all hydraulics and moving components where heated before pressure testing Fill lines and frac head to test vessel plus 1 m <sup>3</sup> 60% methanol to preheat lines / displace air. Shut in at wing valve. Pressure test IES frac head as follows: 7 1/16" x 4 1/16" crossover 4 1/16" x 10K Gate Valve 2 port flow block with single access valve on one side and 2 flow valves to test line 4 1/16" x 10K Hydraulic valve 4 port buffalo head c/w 10K valves on each outlet 4 1/16" x 10K swab valve with test cap above  Pressure test to 1.4 mPa - Good 10 min test / stage pressures in 15 mPa increments to max pressure 69 mPa. Isolate stack at 2 x 2" hammer valve and monitor 10 min = Good test. Bleed back to tank.  Pressure test flow line to 1.4 mPa - Good 10 min test / stage pressures in 15 mPa increments to max pressure 65 mPa. Monitor 10 min - Good test. Bleed off to tank.  Pressure test intermediate 114.3 mm x 177.8 mm annulus 1.4 mPa- Good 10 min test / stage pressures in 15 mPa increments to max pressure 30 mPa. Monitor 10 min - Good test Set intermediate pop valve at ~ 20 mPa Bleed down intermediate casing pressure to 11 mPa and shut in.  Pressure test 114.3 production casing and all connections under the lower-most 7 1/16' gate valve 1.4 mPa - Good 10 min test / stage pressures in 15 mPa increments to max pressure 67 mPa. Monitor 10 min - Good test Intermediate ballooned to 18.5 mPa and subsided back to 11 mPa when production casing bled off.  Rig in pump line to BOP stack and pressure test stack as follows: Blind - Shears - 1.5 + 50MPa for 15min each test. Good test. Pipe - Slips - 1.5 + 50 MPa for 15min each test. good test.	
18:00	18:30	0.50	P	WSS Shift Change	

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 14  
Report Date: 3/3/2014  
Final Job Status: C  
Final Report? Y

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T X	Operation
18:30	19:00	0.50	P	<p>Pre-job Safety and procedural meeting with all night personnel regarding daily activities. Conduct CPC PJHA review hazards associated with pressure testing equipment, rigging in coil tbg, BHA make-up and run procedures, fluid management, spill prevention and cold work procedures.</p> <p>Review all personnel's tickets and have worker's new to site complete medical history sheets for on-site medic's files.</p>
19:00	00:00	5.00	P	<p>Install and nipple up Coil Bop's, Pick injector out of cradle, make up 4 sections of lubricator to house Bha.</p> <p>Cut off previous connector, dress coil tbg and install new F/2 Dimple Connector assembly. Fill coil tbg with 6.4m<sup>3</sup> 60% meth/water, pull test connector to 21,000daN. Pressure test connector to 35,000KPa. Good test. Make up Bha as follows:</p> <ul style="list-style-type: none"> <li>- 73mm F/2 Dimple Connector Assembly</li> <li>- 73mm (2 7/8") Rugged Motorhead Assembly c/w dual flapper check valves <ul style="list-style-type: none"> <li>- Hydraulic disconnect ( 1 1/8" Ball Seat)</li> <li>- 5 Steel Pin (42 MPa)</li> <li>- Circ Sub (1" Ball Seat), 6 Shear Pins - With Ball = 21MPa, Without Ball = 42MPa</li> </ul> </li> <li>- 73mm (2 7/8) Bi-Directional Ultra Jar <ul style="list-style-type: none"> <li>- Max Overpull = 18,000 lbf, Max Overpush = 18,000 lbf</li> <li>- Torsional Yield - 700 ft-lbs</li> <li>- Max Lift after Jarring 95,000 lbf</li> <li>- Stroke 317.5mm (12.5")</li> </ul> </li> <li>- Rugged Disconnect 73mm (2 7/8") <ul style="list-style-type: none"> <li>- 7/8" Ball</li> <li>- 4 pin (4800 Psi)</li> </ul> </li> <li>- 73mm (2 7/8") PowerPlus Motor <ul style="list-style-type: none"> <li>- 5:6 Lobe; 4,7 Stage</li> <li>- Flow Range: 190-473 LPM</li> <li>- Revs per Unit Vol: 1rev/L</li> <li>- No Load Pressure: 390 KPa</li> <li>- Max Diff Pressure - 7033.5KPa</li> <li>- Torque (@ Max Pressure): 646 ft-lbs</li> </ul> </li> <li>- 98mm 5 Blade Concave Mill c/w 5-10mm Water Ports. <ul style="list-style-type: none"> <li>- 2-3/8" Pac Pin.</li> </ul> </li> </ul> <p>Stab lubricator onto Bop's and secure to cement anchors. Pump fluid across to tester's, shut in at tester's and pressure test lubricator against stripper to 1.5 + 50 MPa for 15min each test. Good Test.</p>
00:00	06:00	6.00	P	<p>Run in the hole with Mill assembly on coil tbg, Function test Mud Motor @ 45 mKB as follows:</p> <ul style="list-style-type: none"> <li>- 200 lpm @ 9009 KPa</li> <li>- 300 lpm @ 18068 KPa</li> <li>- 400 lpm @ 31146 KPa</li> </ul> <p>Continue in hole circulating 400 lpm to tester's, Pull test @ following depths:</p> <ul style="list-style-type: none"> <li>- 2000m = Up Weight - 9302 daN</li> <li>- 2500m = Up Weight - 9737.5 daN</li> <li>- 3000m = Up Weight - 10189 daN</li> </ul> <p>Continue in hole and tag fill @ 3115 mKB, circulate down to 3129 mKB, sweep up to 3110 mKB, cycle back down and re-tag PBTD @ 3129 mKB. Circulate 1m<sup>3</sup> B221w Gel sweep followed with 2m<sup>3</sup> fresh water spacer and 1m<sup>3</sup> Gel Sweep. Chase gel up hole and pump 2nd set of gel sweeps @ 1900 mKB (30 degrees), circulate @ 400 lpm out of hole to surface.</p> <p>Note: Silt noticed in returns when gel sweeps at surface.</p> <p>PBTD = 3129 mKB</p>

**FLUID SUMMARY**

Fluid	To lease (m <sup>3</sup> )	From lease (m <sup>3</sup> )	To well (m <sup>3</sup> )	From well (m <sup>3</sup> )	Left to recover (m <sup>3</sup> )
FRESH WATER	0.00	0.00	0.00	0.00	
DAILY COST			0.15	0.00	25.65

BU Desc	Vendor	Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	3,370.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,430.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	3,295.00



# Daily Morning Report

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

Report #: 14  
Report Date: 3/3/2014  
Final Job Status: GAS  
Final Report? Yes

DAILY COST		Vendor	Activity Code	Amount (Cost)
	BU Desc			
Service Rig		CANOL OILFIELD SERVICES INC	E120	2,245.00
Fracture Stimulation Services		CANOL OILFIELD SERVICES INC	N110	30,000.00
Service Rig		CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig		CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig		CORNERSTONE OILFIELD SERVICES LTD	E120	244.00
Service Rig		CORNERSTONE OILFIELD SERVICES LTD	Q300	215.00
Surface Completion Equipment Rental		CORNERSTONE OILFIELD SERVICES LTD	T130	1,670.00
Wellsite Supervision & Engineering		DEN JAR CONSULTING LTD	T130	1,595.00
Wellsite Supervision & Engineering		DON WILLIAMS - BIRD DOG	T130	0.00
Safety Equipment & Services		FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	50.00
Surface Completion Equipment Rental		HODGSON'S CONTRACTING (2005) LTD	Q300	450.00
Surface Completion Equipment Rental		HRN CONTRACTING LTD	Q300	400.00
Surface Completion Equipment Rental		HRN CONTRACTING LTD	N110	5,760.00
Fracture Stimulation Services		ISOLATION EQUIPMENT SERVICES INC	Q300	500.00
Surface Completion Equipment Rental		MACKAY RANGE DEVELOPMENT CORP	P100	1,000.00
Trucking/Hauling/ Hot Shot Services		MCKAY EXPEDITING AND LOGISTICS LTD	T130	1,595.00
Wellsite Supervision & Engineering		MINAULT ENERGY SERVICES LTD	T130	1,595.00
Wellsite Supervision & Engineering		MJS WELLSITE SUPERVISION LTD	Q300	600.00
Surface Completion Equipment Rental		NAVIGATOR ENERGY SERVICES LTD	G300	23,720.00
Completion Fluids & Other Chem		NORTHERN TRUCK SERVICES (1994) LTD	G300	16,430.00
Completion Fluids & Other Chem		PBN ENERGY SERVICES LTD	Q300	1,000.00
Surface Completion Equipment Rental		PBN ENERGY SERVICES LTD	E500	1,550.00
Rig Camp		PBN ENERGY SERVICES LTD	E500	1,655.00
Rig Camp		PBN ENERGY SERVICES LTD	Q300	15.00
Surface Completion Equipment Rental		RIGSAT COMMUNICATIONS INC	Q300	500.00
Surface Completion Equipment Rental		RON'S AUTO SERVICE LTD	E120	37,996.63
Service Rig		SCHLUMBERGER CANADA LIMITED	S500	41,309.50
Fishing / Milling Services		SCHLUMBERGER CANADA LIMITED	K100	23,131.24
Electric Line Servs on Drilling Ops.		SCHLUMBERGER CANADA LIMITED	K100	7,500.00
Electric Line Servs on Drilling Ops.		TRIDENT OILFIELD SERVICES LTD	E120	200.00
Service Rig		WEATHERFORD CANADA PARTNERSHIP	M220	22,465.15
Welltesting (Eqmnt,Srvcs,PTA,Govt Subs)				

### CUMULATIVE JOB FLARED GAS BY ZONE

Volume Gas Total (E3m³)

1,627.510

Zone  
CANOL, Original Hole

PERFORATIONS		Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
Date	Zone				
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 14  
Report Date: 3/3/2014  
Final Job Status: C  
Final Report? Y

**PERFORATIONS**

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 15  
Report Date: 3/4/2014  
Final Job Status: GAS  
Final Report? Yes

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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60
JOB INFORMATION					
Job Category COMPLETIONS		Primary Job Type INITIAL COMPLETION		Secondary Job Type RIGLESS	
Objective New Ventures HZ Canol Formation completion					
Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
AFE COST SUMMARY					
AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50	
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36	
DAILY INFORMATION					
Report Start Date 3/4/2014 06:00	Report End Date 3/5/2014 06:00	Daily Cost Total (Cost) 349,037.09	Cumulative Cost (Cost) 4,992,022.20	Personnel Regular Hours (hr) 1,060.00	
Daily Contacts WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714				Rig RIGLESS, RIGLESS 1	
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Overcast	Temperature (°C) -20	Lease Condition Ice Pad / Snow Covered	
Last 24hr Summary Perforate toe interval cluster #1 from 3118 - 3119 / 3089 - 3090 / 3069 - 3070 / 3059 - 3060 / 3040 - 3041 mKB / Cycle out with coil and purge w/ N <sup>2</sup> . Begin MIRU Frac Equipment / Begin MIRU Schlumberger E-Line					
Weather Forecast Sat 400bbl tanks with Super Heater, rig in remaining frac equipment, prep for frac.					
DAILY TIME LOG					
Start Time	End Time	Dur (hr)	Time P-T-X	Operation	
06:00	06:30	0.50	P	WSS Shift Change Night shift continue pull out with coil	
06:30	07:00	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding coil tubing operations / perforating / spotting equipment	
07:00	07:30	0.50	P	Crew change	
07:30	08:30	1.00	P	Drain stack / suck back on lines / disconnect from wellhead / break down clean out BHA and inspect. All appears in good working order	
08:30	10:00	1.50	P	Pull test / pressure test coil connector Make up and torque BHA as follows: Top Down 73 mm Dimpled Coil Connector - 21 DAN pull / 35 MPA Test 73 mm Rugged MHA - Double Flapper / Disconnect / Circ Sub 60.3 mm PAC x EUE crossover 73 mm Swivel Fill / Flow Sub Pressure activated firing head 79 mm HRSC 21G/60°/6 SPM perf gun 6 min time delay #4 79 mm HRSC 21G/60°/6 SPM perf gun 6 min time delay #3 79 mm HRSC 21G/60°/6 SPM perf gun 6 min time delay #2 79 mm HRSC 21G/60°/6 SPM perf gun 6 min time delay #1 79 mm HRSC 21G/60°/6 SPM perf gun Tapered bull nose Install lube on QTS and pressure test to 55 mPa	
10:00	13:30	3.50	P	Open wellbore / establish circulation to P-Tank R.I.H. at min rates / speed to 150m Increase run speed to 25m/min rates @ 50L/min - 100L/min - Recycled Fluid Perform required pull tests with zero indication of excessive push/pull force Shut in well to test equipment and begin pressure up on coil string for differential required to initiate perforating sequence.	
13:30	14:00	0.50	P	Pressure up to 32 mPa on coil w/ zero indication of Annulus Pressure Stop pump and confirm valve set on frac head. Perform stops at all required perf intervals with no definitive perforating action.	

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Operation																		
14:00	14:30	0.50	P	Repair crashed computer in coil cab.																		
14:30	15:30	1.00	P	R.I.H. to tag depth 3129.6 m / pull back into position to begin perforating sequence / manipulate wellhead to pump common Pressure up wellbore to 30 mPa identify positive activation of firing head. Perforate HZ Canol interval from 3118 - 3119 mKB @ 15:07 p.m. / Pull string into next position for stage 2 within 6 min time delay Perforate HZ Canol interval from 3098 - 3099 mKB @ 15:13 p.m. / Pull string into next position for stage 3 within 6 min time delay Perforate HZ Canol interval from 3079 - 3080 mKB @ 15:19 p.m. / Pull string into next position for stage 4 within 6 min time delay Perforate HZ Canol interval from 3059 - 3060 mKB @ 15:25 p.m. / Pull string into next position for stage 5 within 6 min time delay Perforate HZ Canol interval from 3040 - 3041 mKB @ 15:31 p.m. Maintaining ~10 mPa positive wellbore pressure during perforating operations																		
15:30	18:00	2.50	P	Cycle coil back to surface filling well with recycled water for metal displacement. Cycle lateral @ 15 m/min Cycle build @ 20 m/min Cycle vertical @ 25 m/min. Crown out tool string and drain stack / line with vacuum truck Cool down N <sup>2</sup> for line / coil purge																		
18:00	19:00	1.00	P	Safety and procedural meeting with all night personnel. Conduct CPC PJHA, review hazards and procedures regarding Purging coil tbg with N <sup>2</sup> , rigging out coil tbg, installing and pressure testing E-line Bop's and lubricator, and rigging in remaining Frac equipment and iron. Operational Safety Coach (Clancy Liss) and Conoco HSE (Derrick Tate) on location, hold safety stand down with all crews. Checked all personnel's tickets and orientation's. all valid.																		
19:00	02:00	7.00	P	Coil tbg @ surface, break off lubricator at Bop's, lower TCP's and inspect (all shots fired), break off and lay out perforating guns, re-stab lubricator onto Bop's and displace coil tbg with N <sup>2</sup> to tester's. Rig off coil tbg and remove coil Bop's. Install Schlumberger E-line Pump Down Pressure Control Equipment as follows: (Frac head up)  <table> <thead> <tr> <th>Description</th> <th>I.D (mm)</th> </tr> </thead> <tbody> <tr> <td>- 4 1/16" X/O</td> <td>108.00</td> </tr> <tr> <td>- Tool Trap</td> <td>130.40</td> </tr> <tr> <td>- Triple Stack BOP</td> <td>130.40</td> </tr> <tr> <td>- Flow "T"</td> <td>130.40</td> </tr> <tr> <td>- Quick Test Sub</td> <td>130.40</td> </tr> <tr> <td>- 10K Lubricator (x6)</td> <td>130.40</td> </tr> <tr> <td>- 5 1/8" to 3" Bell Sub X/O</td> <td>60.30</td> </tr> <tr> <td>- Streamline Dual Pack Off</td> <td>8.38</td> </tr> </tbody> </table> (Total swallow of E-line stack = 21.48m)	Description	I.D (mm)	- 4 1/16" X/O	108.00	- Tool Trap	130.40	- Triple Stack BOP	130.40	- Flow "T"	130.40	- Quick Test Sub	130.40	- 10K Lubricator (x6)	130.40	- 5 1/8" to 3" Bell Sub X/O	60.30	- Streamline Dual Pack Off	8.38
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- 10K Lubricator (x6)	130.40																					
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- Streamline Dual Pack Off	8.38																					
02:00	06:00	4.00	P	Rig in remaining Frac equipment and iron, tie in treatment lines (x4) to Buffalo Head. Start firing up equipment to ensure all equipment operational. Rig in 38,000 btu Super Heater and begin heating 400bbl tanks containing fresh water to 35c in preperation for frac. ( note: valves frozen and layer of ice built up in behind valves) - heat all valves with portable steamer and push warm fluid through inlets to thaw ice build up behind valves.  Pressure test E-line Pressure Control Equipment to 1.5MPa, slight leak off, bump up pressure and monitor, still leaking off. No visible leaks on lubricator, Bop's or flange connection. Bump up pressure and monitor for 15min, 200KPa leak off. Pressure up lubricator to 45MPa and monitor, pressure leaking off, still no visible signs of leak. Lay down lubricator and Bop's, open swab valve on frac head and apply 1.5MPa, monitor for 15 min, good test. Install pressure cap on top of Bop's, fill lubricator and pressure test with 60/40% meth/water to 1.5 + 55MPa for 15min each test. good test.  Lay dow lubricator, close swab valve and install pressure cap on Coil Bop's.																		

**FLUID SUMMARY**

Fluid	To lease (m <sup>3</sup> )	From lease (m <sup>3</sup> )	To well (m <sup>3</sup> )	From well (m <sup>3</sup> )	Left to recover (m <sup>3</sup> )
FRESH WATER	0.00	0.00	0.00	0.00	25.65



# Daily Morning Report

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

Report #: 15  
 Report Date: 3/4/2014  
 Final Job Status: GAS  
 Final Report? Yes

DAILY COST		Vendor	Activity Code	Amount (Cost)
BU Desc				4,300.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100		3,290.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300		3,430.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300		3,290.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300		3,290.00
Service Rig	CANOL OILFIELD SERVICES INC	E120		2,245.00
Service Rig	CANOL OILFIELD SERVICES INC	E120		2,245.00
Service Rig	CANOL OILFIELD SERVICES INC	S990		3,500.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	E120		2,275.00
Service Rig	CANOL OILFIELD SERVICES INC	N110		30,000.00
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	E120		40,086.00
Service Rig	CONOCO	E120		2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120		1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120		244.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	Q300		215.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	T130		1,670.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130		1,595.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130		0.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430		450.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300		400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300		50.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300		5,790.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	N110		500.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	Q300		1,000.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100		1,595.00
Wellsite Supervision & Engineering	MINAULT ENERGY SERVICES LTD	T130		1,595.00
Wellsite Supervision & Engineering	MJ'S WELLSITE SUPERVISION LTD	T130		600.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	Q300		13,720.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300		23,720.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300		1,000.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300		15.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300		500.00
Surface Completion Equipment Rental	RONS AUTO SERVICE LTD	Q300		96,147.20
Service Rig	SCHLUMBERGER CANADA LIMITED	E120		28,254.89
Fishing / Milling Services	SCHLUMBERGER CANADA LIMITED	S500		32,250.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100		20,000.00
Electric Line Servs on Drilling Ops.	TRIDENT OILFIELD SERVICES LTD	E120		200.00
Service Rig	WEATHERFORD CANADA PARTNERSHIP	M220		18,965.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)				

### CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)	
CANOL, Original Hole		1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 15  
Report Date: 3/4/2014  
Final Job Status: G^  
Final Report?

**PERFORATIONS**

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 16  
Report Date: 3/5/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45	API / UWI 200/D-020/L094P1699			License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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### Objective

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartin	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 3/5/2014 06:00	Report End Date 3/6/2014 06:00	Daily Cost Total (Cost) 670,929.34	Cumulative Cost (Cost) 5,662,951.54	Personnel Regular Hours (hr) 1,056.00
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### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Overcast	Temperature (°C) -23	Lease Condition Ice Pad / Snow Covered
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### Last 24hr Summary

Prep all equipment for frac / heat water / open water holes / heat frac equipment

Perform frac on Interval #1 @ 3040 - 3119mKB

Opening well Pressure=0.5MPa

ump 15% HCl acid @ 0.6m³/min - 22.5MPa, start Pad #1 Slickwater for 15.5m³ @ 0.7m³/min - 22.8MPa

- Shut down pumps, ISIP=21.9MPa

- Continue pad #1 / Acid Squeeze, pump 18.0m³ @ 0.3m³/min - 14.1MPa

- Shut down Pumps, ISIP=11.0MPa

- Continue Pad #1, pump 191.3m³ @ 0.90m³/min - 8.2MPa

- Start Pad #2 (WF130), pump 317.1m³ @ 8.6m³/min - 34.5MPa

- Start Pad #3 (YF130 Flex) - pump 34m³

- Start sand 40/70 @ 50 kgPA @ 8m³/min - 31.5MPa for 33.5m³, 75 kgPA @ 8m³ - 32.1MPa for 33.5m³, 100kgPA @ 8.2m³/min - 31.7MPa for 75.7m³

- Start sand 40/70 @ 50 kgPA @ 8m³/min - 31.5MPa for 33.5m³, 75 kgPA @ 8m³ - 32.1MPa for 33.5m³, 100kgPA @ 8.2m³/min - 31.7MPa for 75.7m³

PCM unit overheating due to fan clutch issues, go to flush immediately.

- Pump 32.8m³ WF130 followed with 33.9m³ Slickwater. Shut down all pumps.

- ISIP=12.5MPa

Breakdown = 26.0MPa

Max pressure= 33.2 MPa

Ave pressure = 31.5 MPa

Max rate = 8.4m³/min

Avg rate = 8.1m³/min

Proppant pumped = 7840 KG 40/70

Max concentration = 100 kg/m³

Total water pumped = 770.9 m³

Total 15% HCl pumped = 10.8 m³

Post frac ISIP = 12.5MPa

### 24hr Forecast

Wait for replacement parts for PCM, repair and continue fracturing operations, heat fresh water in tank farm.

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
06:00	06:00		P	WSS Shift Change
06:00	06:30	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding spotting equipment / fluid hauling / over head loads

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
06:30	18:00	11.50	P	Rigged in Frac equipment, Prepared all lines and hydraulics Performed daily maintenance Spotted and rigged in trailers for frac Heated Frac tank farm fluids with hot oiler to 30 degree C Heated 2 Frac Hot tanks to 60 degree C Positioned light towers Heated and prepared frac pumps / lines / manifolds Opened water source 4 and 5 with portable steamer Pressure test Frac manifold to 1.4 mPa for 15 min, increase pressure in 15 mPa increments to 69 mPa and held for 15 min (GOOD TEST)
18:00	18:00		P	WSS Shift Change
18:00	18:30	0.50	P	Safety and procedural meeting with all night personnel regarding daily activities. Conduct CPC PJHA regarding frac ops, loading, unloading and heating fresh water for frac, etc.
18:30	02:30	8.00	P	Perform frac on Interval #1 @ 3040 - 3119mKB as follows: Pump 15m <sup>3</sup> 60c hot water across to tester's to warm up all frac pumbers and iron. Pressure test standing iron to 69.0MPa, good test. IES open up master valve and commence Frac Ops as follows: - Opening well Pressure=0.5MPa - Pump 15% HCl acid @ 0.6m <sup>3</sup> /min - 22.5MPa, start Pad #1 Slickwater for 15.5m <sup>3</sup> @ 0.7m <sup>3</sup> /min - 22.8MPa - Shut down pumps, ISIP=21.9MPa - Continue pad #1 / Acid Squeeze, pump 18.0m <sup>3</sup> @ 0.3m <sup>3</sup> /min - 14.1MPa - Shut down Pumps, ISIP=11.0MPa - Continue Pad #1, pump 191.3m <sup>3</sup> @ 0.90m <sup>3</sup> /min - 8.2MPa - Start Pad #2 (WF130), pump 317.1m <sup>3</sup> @ 8.6m <sup>3</sup> /min - 34.5MPa - Start Pad #3 (YF130 Flex) - pump 34m <sup>3</sup> - Start sand 40/70 @ 50 kgPA @ 8m <sup>3</sup> /min - 31.5MPa for 33.5m <sup>3</sup> , 75 kgPA @ 8m <sup>3</sup> - 32.1MPa for 33.5m <sup>3</sup> , 100kgPA @ 8.2m <sup>3</sup> /min - 31.7MPa for 75.7m <sup>3</sup>  PCM unit overheating due to fan clutch issues, go to flush immediately. - Pump 32.8m <sup>3</sup> WF130 followed with 33.9m <sup>3</sup> Slickwater. Shut down all pumps. - ISIP=12.5MPa  Breakdown = 26.0MPa Max pressure= 33.2 MPa Ave pressure = 31.5 MPa Max rate = 8.4m <sup>3</sup> /min Avg rate = 8.1m <sup>3</sup> /min Proppant pumped = 7840 KG 40/70 Max concentration = 100 kg/m <sup>3</sup> Total water pumped = 770.9 m <sup>3</sup> Total 15% HCL pumped = 10.8 m <sup>3</sup> Post frac ISIP = 12.5MPa CFT Tracer 1000
02:30	06:00	3.50	P	Push fluids off of PCM to tester's, winterize all frac iron with 60/40% meth/water and drain up all suction hoses on frac manifold. Continue hauling in water to 400bbl tanks and heating to 35c with super heater in preperaton for future frac operations.

**FLUID SUMMARY**

Fluid	To lease (m <sup>3</sup> )	From lease (m <sup>3</sup> )	To well (m <sup>3</sup> )	From well (m <sup>3</sup> )	Left to recover (m <sup>3</sup> )
FRESH WATER	0.00	0.00	0.00	0.00	

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,960.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00



# Daily Morning Report

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

Report #: 16  
Report Date: 3/5/2014  
Final Job Status: GAS  
Final Report? Yes

DAILY COST		Vendor	Activity Code	Amount (Cost)
BU Desc				
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300		3,430.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300		2,275.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990		3,500.00
Service Rig	CANOL OILFIELD SERVICES INC	E120		2,245.00
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110		30,000.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120		2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120		1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120		244.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300		215.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130		1,670.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130		1,595.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430		0.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300		400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300		50.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300		450.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	N110		5,790.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	Q300		500.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100		1,000.00
Wellsite Supervision & Engineering	MINAULT ENERGY SERVICES LTD	T130		1,595.00
Wellsite Supervision & Engineering	MJ'S WELLSITE SUPERVISION LTD	T130		1,595.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	Q300		600.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300		23,720.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300		1,000.00
Fracture Stimulation Services	PROTECHNICS - CORE LABS	N110		19,429.14
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	RIGSAT COMMUNICATIONS INC	Q300		15.00
Surface Completion Equipment Rental	RONS AUTO SERVICE LTD	Q300		500.00
Service Rig	SCHLUMBERGER CANADA LIMITED	E120		37,100.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100		7,500.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100		20,000.00
Fracture Stimulation Services	SCHLUMBERGER CANADA LIMITED	N110		471,721.20
Service Rig	TRIDENT OILFIELD SERVICES LTD	E120		200.00
Welltesting (Eqpmt, Srvcs, PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220		18,965.00

### CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)	
CANOL, Original Hole		1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 16  
Report Date: 3/5/2014  
Final Job Status: G^  
Final Report? ^

**PERFORATIONS**

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 17  
Report Date: 3/6/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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### Objective

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagarth	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 3/6/2014 06:00	Report End Date 3/7/2014 06:00	Daily Cost Total (Cost) 900,157.48	Cumulative Cost (Cost) 6,563,109.02	Personnel Regular Hours (hr) 1,056.00
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### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather	Temperature (°C)	Lease Condition
		Clear	-25	Ice Pad / Snow Covered

### Last 24hr Summary

Waiting on parts for frac unit to be flown in on chartered flight, parts arrive, repair and function test PCM, repairs successful. While circulating pumps over to warm up equipment Dresser sleeve on Blender began to leak, apply steam, warm up Dresser sleeve, torque down compression cap to enhance seal, and re-attempt pumping through Blender. Leak remained constant. Discuss with Frac Sup and Mechanic, decision is made that swapping out blender with spare unit is quickest route to commence fracturing operations. Swap out blender, apply heat to warm up blender, function test hydraulics. o.k. Air actuated valves frozen in closed position, apply heat to thaw out valves.

### 24hr Forecast

Resume with frac / plug and perf as per program.

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
06:00	06:00		P	WSS Shift Change
06:00	06:30	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding fluid hauling / over head loads / equipment repairs
06:30	17:30	11.00	T	Sweep location for LEL (none), Inspect all slings / tag lines / over head equipment / chalk blocks / muster points / spill containments Insure all equipment is running and spill / leak free (if leaks exist good containment) Continuous monitoring on all equipment to insure no freezing and to keep all equipment in working order Clean up and organize equipment and materials on location Visual inspection on all matting / spill containments and other walking areas for trip and slip hazards, minimize all hazards if possible
17:30	18:00	0.50	T	Checked Intermediate Casing ( 10500 KPa )
18:00	18:00		P	WSS Shift Change
18:00	18:30	0.50	P	Safety and procedural meeting with all night personnel regarding daily activities. Conduct CPC PJHA regarding frac ops, loading, unloading and heating fresh water for frac, etc.
18:30	00:00	5.50	T	Wait for parts to arrive from chartered flight. Prep all support equipment for frac, fill and heat hot tanks to 60c and fuel up all equipment on location.
00:00	03:00	3.00	T	Parts arrive, repair and function test PCM, repairs successful. While circulating pumps over to warm up equipment Dresser sleeve on Blender began to leak, apply steam, warm up Dresser sleeve, torque down compression cap to enhance seal, and re-attempt pumping through Blender. Leak remained constant. Discuss with Frac Sup and Mechanic, decision is made that swapping out blender with spare unit is quickest route to commence fracturing operations, send partial crew to bring up replacement blender from staging area, remaining crew rig drain up, rig out and move broken blender out of way to make room for replacement blender.
03:00	06:00	3.00	T	New blender on location, spot, tarp in and apply heat for rig in. Function test blender's hydraulics, hydraulics operational, air actuated valves frozen, apply heat to thaw out valves.

### FLUID SUMMARY

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
	0.00	0.00	0.00	0.00	
FRESH WATER	737.00		12.00		796.55



# Daily Morning Report

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

Report #: 17  
Report Date: 3/6/2014  
Final Job Status: GA  
Final Report? Y

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	30,000.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,210.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	2,570.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,290.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,000.00
Service Rig	CONOCO	E120	40,086.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	244.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	215.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,595.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	0.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	450.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	50.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	N110	5,790.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	Q300	500.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Wellsite Supervision & Engineering	MINAULT ENERGY SERVICES LTD	T130	1,595.
Wellsite Supervision & Engineering	MJ'S WELLSITE SUPERVISION LTD	T130	1,595.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	Q300	600.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	25,680.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,000.00
Fracture Stimulation Services	PROTECHNICS - CORE LABS	N110	19,429.14
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	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	RON'S AUTO SERVICE LTD	Q300	500.00
Fracture Stimulation Services	SCHLUMBERGER CANADA LIMITED	N110	551,861.18
Fracture Stimulation Services	SCHLUMBERGER CANADA LIMITED	N110	72,150.00
Service Rig	SCHLUMBERGER CANADA LIMITED	E120	31,800.00
Fishing / Milling Services	SCHLUMBERGER CANADA LIMITED	S500	28,859.75
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	20,000.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	7,500.00
Service Rig	TRIDENT OILFIELD SERVICES LTD	E120	200.00
Welltesting (Eqpmnt, Svcs, PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	26,477.41

### CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)
CANOL, Original Hole	1,627.510

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing

# Daily Morning Report

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

Report #: 17  
 Report Date: 3/6/2014  
 Final Job Status: GAS  
 Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
0/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 18  
Report Date: 3/7/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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### Objective

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagarth	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 3/7/2014 06:00	Report End Date 3/8/2014 06:00	Daily Cost Total (Cost) 220,175.35	Cumulative Cost (Cost) 6,783,284.37	Personnel Regular Hours (hr) 1,056.00
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### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -35	Lease Condition Ice Pad / Snow Covered
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### Last 24hr Summary

frac on Interval #1 - 3040.0 - 3119.0 mKB

Set B.P @ 3031mKB, Perforate Stage #2 Interval - 2943.0 - 2944.0mKB - conduct selective breakdown, perforate following intervals: 2962.0 - 2963.0mKB, 2882.0 - 2983.0mKB, 3001.0 - 3002.0mKB, 3021.0 - 3022.0mKB

Frac Interval #2 - 2943.0 - 3022.0 mKB

Set B.P @ 2931.0mKB, Perforate Stage #3 Intervals - 2846.0 - 2847.0mKB - conduct selective breakdown, perforate following intervals: 2866.0 - 2867.0mKB, 2885.0 - 2886.0mKB, 2904.0 - 2905.0mKB, 2924.0 - 2925.0mKB

Frac Interval #3 - 2924.0 - 2847.0mKB

### 24hr Forecast

Continue with plug, perf and frac operations.

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
06:00	06:30	0.50	P	WSS Shift Change
06:30	07:00	0.50	P	Safety and procedural meeting with all on location regarding daily activities. Conduct CPC PJHA regarding fluid hauling / over head loads / equipment repairs / frac opps
07:00	11:00	4.00	P	Perform frac on Interval #1 - 3040 - 3119 mKB: Hole Fill = Full Initial Pressure - 3.2 mPa Break Down - 26 MPa Min Pressure - 3.7 mPa Avg Pressure - 31.9 mPa Max Pressure - 49.7 mPa Min Rate - 0.2 m³/min Avg Rate - 6.1 m³/min Max Rate - 9.5 m³/min Sand Pumped - 12 T 40/70 - 60T 30/50 PR6000 Max BHC - 600 kg/m³ Acid Placed - m³ - Previously placed Water Pumped - 532.9 m³ TLFLTR - Interval #1 - 1364.40 m³ Post Frac ISIP - 23.1 mPa CFT Tracer 1000

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 18  
Report Date: 3/7/2014  
Final Job Status: GA  
Final Report? \

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Operation																																										
11:00	16:00	5.00	P	<p>Prepared Schlumberger E-Line equipment, Lifted lube into position and installed onto IPS buffalo frac head Rigged in to equalize above and below the master valve and equalized Opened master valve RIH with 114.3mm 55.16 MPa Obsidian Bridge plug and 6 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60degree phasing Using one(1) gun as a spare which was not fired Perforation intervals as follows: R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB Initiate pump down sequence @ 1920 mKB.</p> <table border="1"> <thead> <tr> <th>TIME</th><th>DEPTH</th><th>SPEED</th><th>RATE</th><th>PRESSURE</th><th>TENSION</th></tr> </thead> <tbody> <tr> <td>14:00</td><td>1900</td><td>50</td><td>0</td><td>6.5</td><td>600 lbs</td></tr> <tr> <td>14:02</td><td>1920</td><td>50</td><td>0.30</td><td>11</td><td>600 lbs</td></tr> <tr> <td>14:05</td><td>2024</td><td>60</td><td>0.60</td><td>14.2</td><td>550 lbs</td></tr> <tr> <td>14:06</td><td>2100</td><td>45</td><td>0.90</td><td>31</td><td>302 lbs</td></tr> <tr> <td>14:15</td><td>2500</td><td>46</td><td>1.10</td><td>30.8</td><td>410 lbs</td></tr> <tr> <td>14:25</td><td>3000</td><td>44</td><td>1.10</td><td>33.5</td><td>345 lbs</td></tr> </tbody> </table> <p>Final depth with tool bottom 3037 mKB = 24.30 m<sup>3</sup> for pump down. Pull into position with ccl @ 3015.7 mKB setting Halliburton Obsidian bridge plug with center element @ 3031 mKB. B.Plug set with zonal isolation @ 14:31 p.m. I.S.I.P. when setting B.Plug = 16 mPa. Pull E-Line into position to begin firing sequence of Perf Interval #2 Pressure up wellbore to 36.3 mPa. monitor for 5 min with 1 mPa gain in pressure. = Good test. Bleed back well to 26.3 mPa Perforate Cluster # 1 - 3021 - 3022 mKB @ 14:57 ISIP - 26 mPa / 1 min - 25.8 mPa / 2 min 25.8 mPa / 3 min 25.8 mPa / 4 min 26 mPa / 5 min - 26 mPa Pulled up wireline 2m and establish stabilized feed rate @ 0.3 m<sup>3</sup>/min - 36.6 mPa. Increased rate to 1.13 m<sup>3</sup>/min - 55 mPa Step down rates 0.89 m<sup>3</sup>/min - 56.6 mPa Stop pumps - ISIP - 49.6 mPa / 5 min - 17.1 mPa Pumped 5.4 m<sup>3</sup> Continued perforating Clusters 2 thru 5 @ 3001 - 3002 mKB @ 15:19 p.m. 2982 - 2983 mKB @ 15:23 p.m. 2962 - 2963 mKB @ 15:26 p.m. 2943 - 2944 mKB @ 15:28 p.m. P.O.O.H. and rig down wire line</p> <p>NEB on location for lease inspection</p>	TIME	DEPTH	SPEED	RATE	PRESSURE	TENSION	14:00	1900	50	0	6.5	600 lbs	14:02	1920	50	0.30	11	600 lbs	14:05	2024	60	0.60	14.2	550 lbs	14:06	2100	45	0.90	31	302 lbs	14:15	2500	46	1.10	30.8	410 lbs	14:25	3000	44	1.10	33.5	345 lbs
TIME	DEPTH	SPEED	RATE	PRESSURE	TENSION																																									
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14:05	2024	60	0.60	14.2	550 lbs																																									
14:06	2100	45	0.90	31	302 lbs																																									
14:15	2500	46	1.10	30.8	410 lbs																																									
14:25	3000	44	1.10	33.5	345 lbs																																									
16:00	20:00	4.00	P	<p>Fill lines and circulate to test equipment to preheat lines. Increase intermediate casing pressure from 2.5 mPa - 10 mPa. Pressure test lines to 68 mPa.</p> <p>Perform frac on Interval #2 - 2943 - 3022 mKB: Hole Fill = Full Initial Pressure - 8.7 mPa Break Down - MPa Min Pressure - 34.2 mPa Avg Pressure - 39.0 mPa Max Pressure - 44.8 mPa Min Rate - 8.1 m<sup>3</sup>/min Avg Rate - 9.1 m<sup>3</sup>/min Max Rate - 9.8 m<sup>3</sup>/min Sand Pumped - 20 T 40/70 - 60 T 30/50 - 20 T 30/50 PR6000 Max BHC - 600 kg/m<sup>3</sup> Acid Placed - 10.0 m<sup>3</sup> Water Pumped - 731.9 m<sup>3</sup> Post Frac ISIP - 19.1 mPa</p>																																										



# Daily Morning Report

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

Report #: 18  
Report Date: 3/7/2014  
Final Job Status: GAS  
Final Report? Yes

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation																																										
20:00	01:00	5.00	P	<p>Prepared Schlumberger E-Line equipment, Lifted lube into position and installed onto IPS buffalo frac head</p> <p>Rigged in to equalize above and below the master valve and equalized</p> <p>Opened master valve</p> <p>RIH with 114.3mm 55.16 MPa Obsidian Bridge plug and 6 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60 degree phasing</p> <p>Using one(1) gun as a spare which was not fired</p> <p>Perforation intervals as follows:</p> <p>R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB</p> <p>Initiate pump down sequence @ 1890 mKB.</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>TIME</th> <th>DEPTH</th> <th>SPEED</th> <th>RATE</th> <th>PRESSURE</th> <th>TENSION</th> </tr> </thead> <tbody> <tr><td>22:47</td><td>1900</td><td>46</td><td>0.30</td><td>8.1</td><td>827 lbs</td></tr> <tr><td>22:48</td><td>1950</td><td>45</td><td>0.60</td><td>9.5</td><td>798 lbs</td></tr> <tr><td>22:49</td><td>2000</td><td>45</td><td>0.90</td><td>12.2</td><td>721 lbs</td></tr> <tr><td>22:52</td><td>2100</td><td>45</td><td>1.20</td><td>14.5</td><td>864 lbs</td></tr> <tr><td>23:00</td><td>2500</td><td>45</td><td>1.20</td><td>16.8</td><td>736 lbs</td></tr> <tr><td>23:09</td><td>2900</td><td>46</td><td>1.20</td><td>17</td><td>689 lbs</td></tr> </tbody> </table> <p>Final depth with tool bottom 2937.7 mKB = 25.11 m<sup>3</sup> for pump down.</p> <p>Pull into position with ccl @ 2915.7 mKB setting Halliburton Obsidian bridge plug with center element @ 2931 mKB.(Moved up 3m due to Csg Collar). B.Plug set with zonal isolation @ 23:20 p.m.</p> <p>I.S.I.P. when setting B.Plug = 9.6 mPa.</p> <p>Pull E-Line into position to begin firing sequence of Perf Interval #3</p> <p>Pressure up wellbore to 35.2 mPa. monitor for 5 min with 0.7 mPa gain in pressure. =35.9mpa. Good test. Bleed back well to 21.8 mPa</p> <p>Perforate Cluster # 1 - 2924-2925 mKB @ 23:43</p> <p>ISIP - 21.8 mPa / 1 min - 21.5 mPa / 2 min 21.6 mPa / 3 min 21.7 mPa / 4 min 21.9 mPa / 5 min - 21.9 mPa</p> <p>Pulled up wireline 16m and establish stabilized feed rate @ 0.3 m<sup>3</sup>/min - 39 mPa.</p> <p>Increased rate to 1.16 m<sup>3</sup>/min - 50.6 mPa</p> <p>Step down rates 0.8 m<sup>3</sup>/min - 47.9 mPa</p> <p>Stop pumps - ISIP - 38.2 mPa / 5 min - 18 mPa</p> <p>Pumped 6 m<sup>3</sup></p> <p>Continued perforating Clusters 2 thru 5 @</p> <p>2903 - 2904 mKB @ 00:07 p.m.</p> <p>2982 - 2983 mKB @ 00:08 p.m.</p> <p>2962 - 2963 mKB @ 00:10 p.m.</p> <p>2943 - 2944 mKB @ 00:12 p.m.</p> <p>P.O.H. and rig down wire line</p>	TIME	DEPTH	SPEED	RATE	PRESSURE	TENSION	22:47	1900	46	0.30	8.1	827 lbs	22:48	1950	45	0.60	9.5	798 lbs	22:49	2000	45	0.90	12.2	721 lbs	22:52	2100	45	1.20	14.5	864 lbs	23:00	2500	45	1.20	16.8	736 lbs	23:09	2900	46	1.20	17	689 lbs
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23:09	2900	46	1.20	17	689 lbs																																									
01:00	02:30	1.50	P	IES service and grease all valves on frac head in preparation for frac.																																										
02:30	05:30	3.00	P	<p>Fill lines and circulate to test equipment to preheat lines.</p> <p>Pressure test lines to 68 mPa.</p> <p>Perform frac on Interval #3 - 2846 - 2905 mKB:</p> <p>Hole Fill = Full</p> <p>Initial Pressure - 4.9 mPa</p> <p>Break Down - 24.0 mPa</p> <p>Min Pressure - 5.6 mPa</p> <p>Avg Pressure - 30.6 mPa</p> <p>Max Pressure - 43.4 mPa</p> <p>Min Rate - 0.3 m<sup>3</sup>/min</p> <p>Avg Rate - 5.9 m<sup>3</sup>/min</p> <p>Max Rate - 9.6 m<sup>3</sup>/min</p> <p>Sand Pumped - 20 T 40/70</p> <p>- 60 T 30/50</p> <p>- 20 T 30/50 PR6000</p> <p>Max BHC - 600 kg/m<sup>3</sup></p> <p>Acid Placed - 10.0 m<sup>3</sup></p> <p>Water Pumped - 707.8 m<sup>3</sup></p> <p>TLFLTR - Interval #2 - 707.8 m<sup>3</sup></p> <p>Post Frac ISIP - 15.6 mPa</p>																																										
05:30	06:00	0.50	P	WSS shift Change																																										
06:00	06:00																																													

### Fluid Summary

Fluid	To lease (m <sup>3</sup> )	From lease (m <sup>3</sup> )	To well (m <sup>3</sup> )	From well (m <sup>3</sup> )	Left to recover (m <sup>3</sup> )
FRESH WATER	1,020.00	2.00	1,361.30	0.00	2,157.85

### DAILY COST

BU Desc	Vendor	Activity Code	Amount (Cost)
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	30,000.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	5,630.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	5,510.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	4,410.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,420.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	244.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	215.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,670.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	1,595.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	0.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	450.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	N110	7,115.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	Q300	500.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Wellsite Supervision & Engineering	MINAULT ENERGY SERVICES LTD	T130	1,595.00
Wellsite Supervision & Engineering	MJ'S WELLSITE SUPERVISION LTD	T130	1,595.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	Q300	600.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	11,232.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	1,000.00
Fracture Stimulation Services	PROTECHNICS - CORE LABS	N110	12,769.35
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	RIGSAT COMMUNICATIONS INC	Q300	15.00
Service Rig	RONS AUTO SERVICE LTD	Q300	500.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	E120	31,800.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	29,400.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	26,400.00
Service Rig	TRIDENT OILFIELD SERVICES LTD	K100	7,500.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	E120	200.00
<b>CUMULATIVE JOB FLARED GAS BY ZONE</b>			18,965.00

**Zone**

CANOL, Original Hole

Volume Gas Total (E3m³)

1,627.510

**PERFORATIONS**

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 18  
Report Date: 3/7/2014  
Final Job Status: GAS  
Final Report? Yes

### PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing





# Daily Morning Report

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

Report #: 19  
Report Date: 3/8/2014  
Final Job Status: GAS  
Final Report? Yes

WELL HEADER INFORMATION						Field Name	Field Code						
Country	State/Province	Region / Division	District	Field Name		Field Code							
CANADA	N.W.T.	WCBU	NEW VENTURES	Mirror Lake									
Surface Legal Location		API / UWI		License No.									
P-20 65-00 126-45		200/D-020/L094P1699		EL 470									
Orig KB/RT (m)	Ground Elevation (m)	KB-Grd (m)	KB-CF (m)	KB-TF (m)	Total Depth (mKB)	PBTD (All) (mKB)							
289.35	284.15	5.20	5.40	4.10	3,152.00	Original Hole - 3,129.60							
JOB INFORMATION													
Job Category		Primary Job Type		Secondary Job Type		Total Field Estimate (Cost)							
COMPLETIONS		INITIAL COMPLETION		RIGLESS		20,251,383.86							
Objective													
New Ventures HZ Canol Formation completion													
Actual Start Date	End Date	Abandon Date		Responsible Grp 1	Responsible Grp 2	Responsible Grp 3							
2/18/2014 07:30	4/11/2014 06:00	coved		lagartn		Chris Kendall							
AFE COST SUMMARY													
AFE / RFE / Maint.#		Total AFE Amount (Cost)	Total AFE + Supp Amount (Cost)	Total Field Estimate (Cost)	AFE-Field Estimate (Cost)								
10351862		923,600.00	923,600.00	380,182.50	543,417.50								
AFE / RFE / Maint.#		Total AFE Amount (Cost)	Total AFE + Supp Amount (Cost)	Total Field Estimate (Cost)	AFE-Field Estimate (Cost)								
10359334		17,880,000.00	17,880,000.00	19,871,201.36	-1,991,201.36								
DAILY INFORMATION													
Report Start Date	Report End Date	Daily Cost Total (Cost)	Cumulative Cost (Cost)	Personnel Regular Hours (hr)									
3/8/2014 06:00	3/9/2014 06:00	1,429,496.94	8,212,781.31	1,056.00									
Daily Contacts													
WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714													
Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather	Temperature (°C)	Rig									
		Clear	-37	RIGLESS, RIGLESS 1									
Lease Condition													
Ice Pad / Snow Covered													

### Last 24hr Summary

Run in hole with E-line and set B.P @ 2834mKB C.E, Perforate Stage #4 as follows:

2749.0 - 2750.0mKB  
2769.0 - 2770.0mKB  
- 2807.0 - 2808.0mKB  
- 2827.0 - 2828.0mKB

### Frac Interval #4

Perform frac on Interval #4 - 2749.0 - 2828.0 mKB:

Hole Fill = Full  
Initial Pressure - 6.4 mPa  
Break Down - 24.8MPa  
Min Pressure - 14.4mPa  
Avg Pressure - 34.6mPa  
Max Pressure - 39.0mPa  
Min Rate - 4.3m³/min  
Avg Rate - 9.2 m³/min  
Max Rate - 9.7m³/min  
Sand Pumped 19 - T 40/70  
66- T 30/50  
22- T 30/50 PR6000  
Max BHC -600 kg/m³  
Acid Placed - 10.0m³  
Water Pumped - 689.2 m³  
Post Frac ISIP - 16.6 mPa

Run in hole with E-line and set B.P @ 2741.9mKB, Perforate Stage #5 as follows:

- 2691.0 - 2692.0mKB  
- 2710.0 - 2711.0mKB  
- 2730.0 - 2731.0mKB

IES grease and service all valves on Frac head.

### 24hr Forecast

Continue with frac, plug and perf operations.

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
06:00	06:30	0.50	P	Well site supervisors shift change  NOTE: Frac Crew winterizing equipment after frac #3 NOTE: E-Line building pump down assembly.
06:30	07:00	0.50	P	Safety and procedural meeting with all on location regarding daily activites. Conduct CPC PJHA regarding frac ops / pump down ops / hauling and heating fluids
07:00	07:30	0.50	P	Crew Change

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 19  
Report Date: 3/8/2014  
Final Job Status: G  
Final Report? Y

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
07:30	09:30	2.00	T	<p>Prepared Schlumberger E-Line equipment, Lifted lube into position and installed onto IPS buffalo frac head Rigged in to equalize above and below the master valve and equalized to 6.5 mPa (S.I.P.C.P.) Opened master valve RIH with 114.3mm 55.16 MPa Obsidian Bridge plug and 6 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60 degree phasing R.I.H. 4.5 m and tag up on (assuming) bit guide. Slack string weight off to neutral. Attempt to hoist string off obstruction. Pull 500 lbs over string weight (<math>\pm 800</math> lbs) Work string from neutral to 50% pull out = 1600 lbs. Manually work line to free tool string and begin moving down x 2m and stop. Attempt to hoist string via winch and man power. Hoist string back into frac head with B.Plug sitting above 7 1/16" master valve. Shut in well at 7 1/16" Ground Master.</p>
09:30	09:45	0.25	T	Conduct CPC PJHA regarding hoisting live guns / setting tools to surface and disassembling.
09:45	12:15	2.50	T	<p>Hoist E-Line string via winch with slight overpull and swallow tool string in lubricator. Shut in 4 1/16" valve for double isolation and bleed off pressure equipment to vessel. Hoist and remove lubricator / lower out B.Plug and inspect. Good condition / still in run position. Lay out lubricator and tool string / remove tool string and inspect setting tool / crossovers / perf guns / cable head / packoff / cable head / utilize flash light and peer into BOP / tool trap with no indications of why tool string hung up in frac head. Fill lines and flush wellbore with 31 m<sup>3</sup> (25 fresh - 6 methanol water) to wellbore @ 1.7 m<sup>3</sup>/min - 1 m/min final displacing rate Shut in wellbore and isolate frac equipment.</p>
12:15	13:15	1.00	T	<p>Make up and prep to R.I.H. w/ 96 mm Gauge Ring / Junk Basket Hoist and install lubricator equalizing across master valve with wellbore pressure. R.I.H. 1.2m and tag obstruction. Top ram of BOP's Pull up with no overpull R.I.H. 1.2m and retag. Manually work line and lower down 0.2 m Second ram of BOP's Decision made infield to rig down E-Line equipment and thoroughly inspect for deficiency.</p>
13:15	18:00	4.75	T	<p>Bleed off SLB pressure equipment. Hoist and remove lubricator and BHA. Rig down quick test sub / BOP's / Tool trap and visually inspect Upon inspection it was noticed that the Tool trap had sand and sludge behind it with indications of the tool string hitting it from the semi open position Hoist and install BOP's / Tool trap / quick test sub Hoist and install lubricator with 96mm gauge ring and junk basket Lowered gauge ring above 4 1/16 master valve with out tagging it (seen no obstructions) Pulled junk basket and gauge ring to the top of the lubricator Pressure test all well head parts above 4 1/16 master valve to 60 mPa for 10 min (good test) Bled down pressure to vessel leaving 1 mPa over well bore pressure (6mPa) Opened and ran in 96mm gauge ring and junk basket to 2061 mKB (point of rejection) POOH with BHA and closed master valve Bleed off pressure equipment to vessel hoist and removed lubricator and lowered BHA to the ground</p>
18:00	18:30	0.50	P	<p>Well site supervisors shift change  Note: E-line running in the hole with Bridge plug / perforating gun assembly.</p>



# Daily Morning Report

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

Report #: 19  
Report Date: 3/8/2014  
Final Job Status: GAS  
Final Report? Yes

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation																																																						
18:30	21:00	2.50	P	<p>Prepared Schlumberger E-Line equipment to Perforate Stage #4. Lifted lube into position and installed onto IPS buffalo frac head</p> <p>Rigged in to equalize above and below the master valve and equalized</p> <p>Opened master valve</p> <p>R.H with 114.3mm 55.16 MPa Obsidian Bridge plug and 6 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60degree phasing</p> <p>Using one(1) gun as a spare which was not fired</p> <p>Perforation Intervals as follows:</p> <p>R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB</p> <p>Initiate pump down sequence @ 1920 mKB.</p> <table><thead><tr><th>TIME</th><th>DEPTH</th><th>SPEED</th><th>RATE</th><th>PRESSURE</th><th>TENSION</th></tr></thead><tbody><tr><td>18:34</td><td>1900</td><td>59</td><td>0</td><td>6.3</td><td>730 lbs</td></tr><tr><td>18:35</td><td>1950</td><td>57</td><td>0.30</td><td>9.2</td><td>700 lbs</td></tr><tr><td>18:36</td><td>2000</td><td>56</td><td>0.60</td><td>10.3</td><td>650 lbs</td></tr><tr><td>18:37</td><td>2050</td><td>55</td><td>0.90</td><td>12.2</td><td>590 lbs</td></tr><tr><td>18:45</td><td>2500</td><td>54</td><td>1.10</td><td>16.0</td><td>490 lbs</td></tr><tr><td>18:51</td><td>2800</td><td>51</td><td>1.10</td><td>16.2</td><td>470 lbs</td></tr></tbody></table> <p>Final depth with tool bottom 2842.6 mKB = 17.5 m<sup>3</sup> for pump down.</p> <p>Pull into position with ccl @ 2818.4 mKB setting Halliburton Obsidian bridge plug with center element @ 2834.4 mKB.</p> <p>B.Plug set with zonal isolation @ 19:00 p.m.</p> <p>I.S.I.P. when setting B.Plug = 8.1 mPa.</p> <p>Pull E-Line into position to begin firing perf cluster #1</p> <p>Attempt to Pressure up wellbore to pressure test plug, pump 2.3m<sup>3</sup>, pressure increased to 8.4MPa, shut down pumps, pressure dropped to 8.0MPa, pump 0.6m<sup>3</sup>, pressure increased to 8.4MPa. Ball not seated. Pull up and perforate clusters 1 through 5 at following intervals:</p> <table><thead><tr><th>TIME</th><th>INTERVAL</th></tr></thead><tbody><tr><td>19:17</td><td>2827.0 - 2828.0mKB</td></tr><tr><td>19:22</td><td>2807.0 - 2808.0mKB</td></tr><tr><td>19:23</td><td>2788.0 - 2789.0mKB</td></tr><tr><td>19:25</td><td>2769.0 - 2770.0mKB</td></tr><tr><td>19:27</td><td>2749.0 - 2750.0mKB</td></tr></tbody></table> <p>Fluid Pumped for attempted pressure test - 2.9m<sup>3</sup></p> <p>Total Pumped for pump down operation - 20.4m<sup>3</sup></p> <p>P.O.O.H. and rig down wire line</p>	TIME	DEPTH	SPEED	RATE	PRESSURE	TENSION	18:34	1900	59	0	6.3	730 lbs	18:35	1950	57	0.30	9.2	700 lbs	18:36	2000	56	0.60	10.3	650 lbs	18:37	2050	55	0.90	12.2	590 lbs	18:45	2500	54	1.10	16.0	490 lbs	18:51	2800	51	1.10	16.2	470 lbs	TIME	INTERVAL	19:17	2827.0 - 2828.0mKB	19:22	2807.0 - 2808.0mKB	19:23	2788.0 - 2789.0mKB	19:25	2769.0 - 2770.0mKB	19:27	2749.0 - 2750.0mKB
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21:00	01:00	4.00	P	<p>Fill lines and circulate to test equipment to preheat lines.</p> <p>Pressure test lines to 68 mPa.</p> <p>Perform frac on Interval #4 - 2749.0 - 2828.0 mKB:</p> <p>Hole Fill = Full</p> <p>Initial Pressure - 6.4 mPa</p> <p>Break Down - 24.8MPa</p> <p>Min Pressure - 14.4mPa</p> <p>Avg Pressure - 34.6mPa</p> <p>Max Pressure - 39.0mPa</p> <p>Min Rate - 4.3m<sup>3</sup>/min</p> <p>Avg Rate - 9.2 m<sup>3</sup>/min</p> <p>Max Rate - 9.7m<sup>3</sup>/min</p> <p>Sand Pumped 19 - T 40/70</p> <p>66- T 30/50</p> <p>22- T 30/50 PR6000</p> <p>Max BHC -600 kg/m<sup>3</sup></p> <p>Acid Placed - 10.0m<sup>3</sup></p> <p>Water Pumped - 689.2 m<sup>3</sup></p> <p>Post Frac ISIP - 16.6 mPa</p> <p>Drain up and winterize all standing iron.</p>																																																						
00	02:00	1.00	P	Daylight savings time- clocks set ahead 1 hour.																																																						

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 19  
Report Date: 3/8/2014  
Final Job Status: G  
Final Report? Y

**DAILY TIME LOG**

Start Time	End Time	Dur (m)	Time P-T-X	Operation																																										
02:00	05:00	3.00	P	<p>Prepared Schlumberger E-Line equipment to Perforate Stage #5, Lifted lube into position and installed onto IPS buffalo frac head</p> <p>Rigged in to equalize above and below the master valve and equalized</p> <p>Opened master valve</p> <p>RIH with 114.3mm 55.16 MPa Obsidian Bridge plug and 6 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60degree phasing</p> <p>Using one(1) gun as a spare which was not fired</p> <p>Perforation intervals as follows:</p> <p>R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB</p> <p>Initiate pump down sequence @ 1920 mKB.</p> <table> <thead> <tr> <th>TIME</th> <th>DEPTH</th> <th>SPEED</th> <th>RATE</th> <th>PRESSURE</th> <th>TENSION</th> </tr> </thead> <tbody> <tr> <td>3:35</td> <td>1900</td> <td>70</td> <td>0.30</td> <td>6.4</td> <td>693 lbs</td> </tr> <tr> <td>3:35</td> <td>1950</td> <td>70</td> <td>0.60</td> <td>7.0</td> <td>650 lbs</td> </tr> <tr> <td>3:36</td> <td>2000</td> <td>70</td> <td>0.90</td> <td>8.3</td> <td>683 lbs</td> </tr> <tr> <td>3:37</td> <td>2050</td> <td>70</td> <td>0.90</td> <td>8.9</td> <td>584 lbs</td> </tr> <tr> <td>3:43</td> <td>2500</td> <td>70</td> <td>1.20</td> <td>12.7</td> <td>584 lbs</td> </tr> <tr> <td>3:46</td> <td>2700</td> <td>70</td> <td>1.20</td> <td>13.2</td> <td>572 lbs</td> </tr> </tbody> </table> <p>Final depth with tool bottom 2732.79 mKB = 13.12m<sup>3</sup> for pump down.</p> <p>Pull into position with ccl @ 2730.21mKB setting Halliburton Obsidian bridge plug with center element @ 2741.9mKB.</p> <p>B.Plug set with zonal isolation @ 3:49 p.m.</p> <p>I.S.I.P. when setting B.Plug = 6.7 mPa.</p> <p>Pull E-Line into position to begin firing perf cluster #1</p> <p>Pressure up wellbore to 35.0 mPa. monitor for 5 min with 0.3 mPa gain in pressure. = Good test. Bleed back well to 16.7 mPa</p> <p>Perforate Cluster # 1 - 2730.0 - 2731.0 mKB @ 4:20</p> <p>ISIP - 16.0 mPa / 1 min - 16.0 mPa / 2 min 16.0 mPa / 3 min 16.0 mPa / 4 min 16.0 mPa / 5 min - 16.0 mPa</p> <p>Pulled up wireline 2m and establish stabilized feed rate @ 0.3 m<sup>3</sup>/min - 29.4 mPa.</p> <p>Increased rate to 1.45 m<sup>3</sup>/min - 31.8 mPa</p> <p>Step down rates 1.0 m<sup>3</sup>/min - 27.2 mPa</p> <p>Stop pumps - ISIP - 17.2 mPa / 5 min - 10.2 mPa</p> <p>Pumped 4.77 m<sup>3</sup></p> <p>Continued perforating Clusters 2 thru 5 @</p> <p>2710.0 - 2711.0 mKB @ 4:40</p> <p>2691.0 - 2692.0 mKB @ 4:41</p> <p>P.O.O.H. and rig down wire line</p>	TIME	DEPTH	SPEED	RATE	PRESSURE	TENSION	3:35	1900	70	0.30	6.4	693 lbs	3:35	1950	70	0.60	7.0	650 lbs	3:36	2000	70	0.90	8.3	683 lbs	3:37	2050	70	0.90	8.9	584 lbs	3:43	2500	70	1.20	12.7	584 lbs	3:46	2700	70	1.20	13.2	572 lbs
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3:46	2700	70	1.20	13.2	572 lbs																																									
05:00	06:00	1.00	P	IES grease and function test all valves on frac head.																																										
06:00	06:00																																													

**FLUID SUMMARY**

Fluid	To lease (m <sup>3</sup> )	From lease (m <sup>3</sup> )	To well (m <sup>3</sup> )	From well (m <sup>3</sup> )	Left to recover (m <sup>3</sup> )
FRESH WATER	0.00	0.00	0.00	0.00	
	995.00	10.00	1,445.60	0.00	3,603.45

BU Desc	Vendor	Activity Code	Amount (Cost)
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	30,000.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	1,910.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,245.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,595.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	E120	244.00
Wellsite Supervision & Engineering	CORNERSTONE OILFIELD SERVICES LTD	Q300	215.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Safety Equipment & Services	DON WILLIAMS - BIRD DOG	T130	1,595.00
Surface Completion Equipment Rental	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	0.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	450.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	50.00



# Daily Morning Report

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

Report #: 19  
Report Date: 3/8/2014  
Final Job Status: GAS  
Final Report? Yes

DAILY COST		Vendor	Activity Code	Amount (Cost)
Fracture Stimulation Services		ISOLATION EQUIPMENT SERVICES INC	N110	5,790.00
Surface Completion Equipment Rental		MACKAY RANGE DEVELOPMENT CORP	Q300	500.00
Trucking/Hauling/ Hot Shot Services		MCKAY EXPEDITING AND LOGISTICS LTD	P100	1,000.00
Wellsite Supervision & Engineering		MINAULT ENERGY SERVICES LTD	T130	1,595.00
Wellsite Supervision & Engineering		MJ'S WELLSITE SUPERVISION LTD	T130	1,595.00
Surface Completion Equipment Rental		NAVIGATOR ENERGY SERVICES LTD	Q300	600.00
Completion Fluids & Other Chem		NORTHERN TRUCK SERVICES (1994) LTD	G300	6,000.75
Completion Fluids & Other Chem		NORTHERN TRUCK SERVICES (1994) LTD	G300	3,200.00
Surface Completion Equipment Rental		PBN ENERGY SERVICES LTD	Q300	1,000.00
Fracture Stimulation Services		PROTECHNICS - CORE LABS	N110	13,348.95
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		RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental		RONS AUTO SERVICE LTD	Q300	500.00
Surface Completion Equipment Rental		SCHLUMBERGER CANADA LIMITED	N110	1,210,551.45
Fracture Stimulation Services		SCHLUMBERGER CANADA LIMITED	E120	31,800.00
Service Rig		SCHLUMBERGER CANADA LIMITED	S500	28,859.75
Fishing / Milling Services		SCHLUMBERGER CANADA LIMITED	K100	31,564.04
Electric Line Servs on Drilling Ops.		SCHLUMBERGER CANADA LIMITED	K100	7,500.00
Electric Line Servs on Drilling Ops.		TERVITA CORP	G300	3,528.00
Completion Fluids & Other Chem		TRIDENT OILFIELD SERVICES LTD	E120	200.00
Service Rig		WEATHERFORD CANADA PARTNERSHIP	M220	18,965.00
Welltesting (Eqpmnt,Srvcs,PTA,Gov't Subs)				

### IMULATIVE JOB FLARED GAS BY ZONE

ne	Volume Gas Total (E3m³)	1,627.510
CANOL, Original Hole		

PERFORATIONS					
Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 19  
Report Date: 3/8/2014  
Final Job Status: G  
Final Report? Y

**PERFORATIONS**

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00		
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 20  
Report Date: 3/9/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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### Objective

New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 3/9/2014 06:00	Report End Date 3/10/2014 06:00	Daily Cost Total (Cost) 950,518.09	Cumulative Cost (Cost) 9,163,299.40	Personnel Regular Hours (hr) 1,056.00
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### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -30	Lease Condition Ice Pad / Snow Covered
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### Last 24hr Summary

Perform frac on Interval #5 - 2691.0- 2731.0

- Set B.P @ 2682.0mKB C.E, Perforate Cluster #1 on Interval #6 @ 2633.0 - 2633.0mKB. Preform selective breakdown: 0.3m³/min - 24.0MPa, 1.5m³/min - 5.0MPa

1.00m³/min - 26.0MPa.

ISIP - 17.2MPa.

Perforate cluster's 2 thru 3 @ 2652.0 - 2652.0mKB, 2633.0 - 2634.0mKB.

-Perform frac on Interval #6 - 2633.0 - 2673.0 mKB

-Set B.P @ 2624.0mKB C.E, perforate cluster #1 on Interval #7 @ 2613.0 - 2614.0mKB, perform selective breakdown: 0.3m³/min - 22.2MPa, 1.37m³/min - 34.1MPa,

1.00m³ - 30.6m³/min - 30.6m³.

ISIP - 17.4MPa, 5 min - 14.0MPa.

Perforate cluster's 2 thru 5 @ 2594.0 - 2595.0mKB, 2575.0 - 2576.0mKB, 2555.0 - 2556.0mKB, 2536.0 - 2537.0mKB

-Perform frac on Interval #7 - 2536.0 - 2614.0 mKB

-Set B.P @ 2525.0mKB C.E, Perforate Cluster #1 on interval #7 @ 2516.0 - 2517.0mKB, perform selective breakdown: 0.5m³ - 28.7MPa, 1.45m³ - 32.1MPa, 1m³ - 25.3MPa.

ISIP-23.2MPa, 5min ISIP - 9.2MPa

Perforate cluster's 2 thru 5 @ 2497.0 - 2498.0mKB, 2478.0 - 2479.0mKB, 2458.0 - 2459.0mKB, 2439.0 - 2440.0mKB

-Perform frac on interval #8

### 24hr Forecast

Continue with frac, plug and perf operations.

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
06:00	06:00		P	Well site supervisors shift change
06:00	06:30	0.50	P	Safety and procedural meeting with all on location regarding daily activites. Conduct CPC PJHA regarding frac ops / pump down ops / hauling and heating fluids



# Daily Morning Report COPRC MIRROR LAKE P-20 65-00 126-45

Report #: 20  
Report Date: 3/9/2014  
Final Job Status: G/  
Final Report? \

## DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Activity	Operation
06:30	07:30	1.00	P	Greased all IES buffalo head valves Fill lines and circulate to test equipment to preheat lines. Pressure test lines to 68 mPa.  Perform frac on Interval #5 - 2691.0- 2731.0 mKB: Hole Fill = Full Initial Pressure - 6.4 mPa Break Down - 23.3 MPa Min Pressure - 32.4 mPa Avg Pressure - 36.8mPa Max Pressure - 39.6mPa Min Rate - 9.4m³/min Avg Rate - 9.4m³/min Max Rate - 9.5m³/min Sand Pumped 19.7 - T 40/70 63.8- T 30/50 30.2- T 30/50 PR6000 Max BHC -600 kg/m³ Acid Placed - 10.0m³ Water Pumped - 698.4 m³ Post Frac ISIP - 24.4 mPa	
07:30	10:30	3.00	P	Prepared Schlumberger E-Line equipment to Perforate Stage #6, Lifted lube into position and installed onto IPS buffalo frac head Rigged in to equalize above and below the master valve and equalized Opened master valve R.I.H with 114.3mm 55.16 MPa Obsidian Bridge plug and 4 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60degree phasing Using one(1) gun as a spare which was not fired Perforation intervals as follows: R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB Initiate pump down sequence @ 1920 mKB. TIME DEPTH(m) SPEED(m/min) RATE(L/min) PRESSURE(mPa) TENSION 11:20 1901 60 0.30 8.9 742 11:23 2000 60 0.62 10.0 701 11:24 2040 60 0.86 11.5 667 11:25 2108 55 0.90 12.4 524 11:26 2140 55 1.13 13.4 603 11:28 2325 56 1.11 13.9 598 11:30 2437 55 1.11 13.8 600  Final depth with tool bottom 2686.0 mKB= 13.8 m³ for pump down. Pull into position with ccl @2670.31 mKB setting Halliburton Obsidian bridge plug with center element @ 2682 mKB. B.Plug set with zonal isolation @ 11:43 a.m. I.S.I.P. when setting B.Plug =8.6 mPa. Pull E-Line into position to begin firing perf cluster #6	
10:30	13:30	3.00	P	Pressure up wellbore to 35.0 mPa. monitor for 5 min with 0.3 mPa gain in pressure. = Good test. Bleed back well to 18.0 mPa Perforate Cluster # 6-2633 - 2673 mKB @ 11:58 ISIP - 17.7 mPa / 1 min - 17.4 mPa / 2 min 17.2 mPa / 3 min 17.0 mPa / 4 min 16.8 mPa / 5 min - 16.6 mPa Pulled up wireline 2m and establish stabilized feed rate @ 0.3 m³/min - 24.0 mPa. Increased rate to 1.5m³/min -28.0 mPa Step down rates1.00 m³/min -26 mPa Stop pumps - ISIP - 17.2 mPa / 5 min -12.4 mPa Pumped4.5 m³ Continued perforating Clusters 2 and 3 @ 2652 - 2653 mKB @ 12:15 2633 - 2634 mKB @ 12:17  P.O.O.H. and rig down wire line	

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 20  
Report Date: 3/9/2014  
Final Job Status: GAS  
Final Report? Yes

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Operation																																				
13:30	18:00	4.50	P	<p>Fill lines and circulate to test equipment to preheat lines. Pressure test lines to 68 mPa.</p> <p>Perform frac on Interval #6 - 2633.0 - 2673.0 mKB: Hole Fill = Full Initial Pressure - 5.9 mPa Break Down - 25.9 MPa Min Pressure - 30.5mPa Avg Pressure - 37.3mPa Max Pressure - 49.3mPa Min Rate - 7.5m³/min Avg Rate - 9.1 m³/min Max Rate - 9.6m³/min Sand Pumped 17.7 - T 40/70 62.8- T 30/50 24.2- T 30/50 PR6000 Max BHC -600 kg/m³ Acid Placed - 10.0m³ Water Pumped - 770.4 m³ Post Frac ISIP - 15.6 mPa</p> <p>Drain up and winterize all standing iron.</p>																																				
18:00	18:00			Well Site Supervisor shift change.																																				
18:00	18:30	0.50	P	Safety and procedural meeting with all on location regarding daily activites. Review CPC PJHA regarding frac ops / pump down ops / hauling and heating fluids																																				
18:30	21:30	3.00	P	<p>Prepared Schlumberger E-Line equipment to Perforate Stage #6, Lifted lube into position and installed onto IPS buffalo frac head Rigged in to equalize above and below the master valve and equalized Opened master valve RIH with 114.3mm 55.16 MPa Obsidian Bridge plug and 4 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60degree phasing Using one(1) gun as a spare which was not fired Perforation intervals as follows: R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB Initiate pump down sequence @ 1920 mKB.</p> <table border="1"> <thead> <tr> <th>TIME</th> <th>DEPTH(m)</th> <th>SPEED(m/min)</th> <th>RATE(L/min)</th> <th>PRESSURE(mPa)</th> <th>TENSION</th> </tr> </thead> <tbody> <tr> <td>16:50</td> <td>1900</td> <td>60</td> <td>0.30</td> <td>9.1</td> <td>635</td> </tr> <tr> <td>16:52</td> <td>1998</td> <td>60</td> <td>0.60</td> <td>10.0</td> <td>661</td> </tr> <tr> <td>16:54</td> <td>2080</td> <td>62</td> <td>0.90</td> <td>12.5</td> <td>561</td> </tr> <tr> <td>16:55</td> <td>2123</td> <td>61</td> <td>1.05</td> <td>13.5</td> <td>593</td> </tr> <tr> <td>17:00</td> <td>2400</td> <td>61</td> <td>1.20</td> <td>15.7</td> <td>615</td> </tr> </tbody> </table> <p>Final depth with tool bottom 2629.0 mKB= 12.23 m³ for pump down. Pull into position with ccl @2608.00 mKB setting Halliburton Obsidian bridge plug with center element @ 2624 mKB. B.Plug set with zonal isolation @ 17:08 I.S.I.P. when setting B.Plug =9.5 mPa. Pull E-Line into position to begin firing perf cluster #7</p>	TIME	DEPTH(m)	SPEED(m/min)	RATE(L/min)	PRESSURE(mPa)	TENSION	16:50	1900	60	0.30	9.1	635	16:52	1998	60	0.60	10.0	661	16:54	2080	62	0.90	12.5	561	16:55	2123	61	1.05	13.5	593	17:00	2400	61	1.20	15.7	615
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17:00	2400	61	1.20	15.7	615																																			
21:30	23:30	2.00	P	<p>Pressure up wellbore to 35.0 mPa. monitor for 5 min with 0.6 mPa gain in pressure. = Good test. Bleed back well to 19.3 mPa</p> <p>Perforate Cluster # 1 on Interval # 7 2613 -'2614 mKB @ 17:30 ISIP - 19.4 mPa / 1 min - 17.6 mPa / 2 min 16.7 mPa / 3 min 16.1 mPa / 4 min 15.7 mPa / 5 min - 15.4mPa Pulled up wireline 2m and establish stabilized feed rate @ 0.3 m³/min - 22.2 mPa. Increased rate to 1.37m³/min -34.1 mPa Step down rates 1.00 m³/min -30.6 mPa Stop pumps - ISIP - 17.4 mPa / 5 min -14.0 mPa Total Pumped on injectivity test - 5.30 m³ Continued perforating Clusters 2 and 3 at following intervals: 2594.0 - 2595.0 mKB @ 17:44 2575.0 - 2576.0 mKB @ 17:46 2555.0 - 2556.0 mKB @ 17:48 2536.0 - 2537.0 mKB @ 17:51 P.O.H. and rig down wire line</p>																																				

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 20  
Report Date: 3/9/2014  
Final Job Status: G'  
Final Report? Y

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Operation																																										
23:30	01:00	1.50	P	<p>Fill lines and circulate to test equipment to preheat lines. Pressure test lines to 68 mPa.</p> <p>Perform frac on Interval #7 - 2536.0 - 2614.0 mKB: Hole Fill = Full Initial Pressure - 4.80 MPa Break Down - 22.20 MPa Min Pressure - 31.60 MPa Avg Pressure - 36.10 MPa Max Pressure - 48.10 MPa Min Rate - 9.50m³/min Avg Rate - 9.60m³/min Max Rate - 9.60m³/min Sand Pumped 21.59 - T 40/70 63.75 - T 30/50 21.64 - T 30/50 PR6000 Max BHC -600 kg/m³ Acid Placed - 10.0m³ Water Pumped - 687.10 m³ Post Frac ISIP - 18.20 MPa 5min ISIP - 13.10MPa 10min ISIP - 9.90MPa 15min ISIP - 8.60MPa</p> <p>Drain up and winterize all standing iron.</p>																																										
01:00	05:00	4.00	P	<p>Prepared Schlumberger E-Line equipment to Perforate Stage #8. Lifted lube into position and installed onto IPS buffalo frac head Rigged in to equalize above and below the master valve and equalized Opened master valve RIH with 114.3mm 55.16 MPa Obsidian Bridge plug and 6 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60degree phasing Using one(1) gun as a spare which was not fired Perforation intervals as follows: R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB Initiate pump down sequence @ 1920 mKB.</p> <table border="1"> <thead> <tr> <th>TIME</th> <th>DEPTH</th> <th>SPEED</th> <th>RATE</th> <th>PRESSURE</th> <th>TENSION</th> </tr> </thead> <tbody> <tr> <td>3:29</td> <td>1900</td> <td>70</td> <td>0.30</td> <td>5.7</td> <td>897 lbs</td> </tr> <tr> <td>3:29</td> <td>1950</td> <td>70</td> <td>0.60</td> <td>6.4</td> <td>761 lbs</td> </tr> <tr> <td>3:30</td> <td>2000</td> <td>70</td> <td>0.90</td> <td>6.8</td> <td>669 lbs</td> </tr> <tr> <td>3:31</td> <td>2050</td> <td>70</td> <td>0.90</td> <td>8.6</td> <td>584 lbs</td> </tr> <tr> <td>3:34</td> <td>2300</td> <td>70</td> <td>1.20</td> <td>10.4</td> <td>649 lbs</td> </tr> <tr> <td>3:36</td> <td>2400</td> <td>70</td> <td>1.20</td> <td>10.9</td> <td>601 lbs</td> </tr> </tbody> </table> <p>Final depth with tool bottom 2531.83 mKB = 9.4 m³ for pump down. Pull into position with ccl @ 2509.7mKB setting Halliburton Obsidian bridge plug with center element @ 2525mKB. B.Plug set with zonal isolation @ 3:49 a.m. I.S.I.P. when setting B.Plug = 6.2 mPa. Pull E-Line into position to begin firing Perf Interval #8</p> <p>Pressure up wellbore to 35.0 mPa. monitor for 5 min with 0.1 mPa gain in pressure. = Good test. Bleed back well to 16.0 mPa Perforate Cluster # 1 - 2516.0 - 2517.0 mKB @ 4:15 a.m. ISIP - 16.1 mPa / 1 min - 15.8 mPa / 2 min 15.8 mPa / 3 min 15.8 mPa / 4 min 15.7 mPa / 5 min - 15.7 mPa Pulled up wireline 3 m and establish stabilized feed rate @ 0.5 m³/min - 28.7 mPa. Increased rate to 1.45 m³/min - 32.1 mPa Step down rates 1.0 m³/min - 25.3 mPa Stop pumps - ISIP - 23.2 mPa / 5 min - 9.2 mPa Pumped 4.6 m³ Continued perforating Clusters 2 thru 5 @ 2497.0 - 2498.0 mKB @ 4:34 a.m 2478.0 - 2479.0 mKB @ 4:35 a.m 2458.0 - 2459.0 mKB @ 4:37 a.m 2439.0 - 2440.0 mKB @ 4:39 a.m  P.O.O.H. and rig down wire line</p>	TIME	DEPTH	SPEED	RATE	PRESSURE	TENSION	3:29	1900	70	0.30	5.7	897 lbs	3:29	1950	70	0.60	6.4	761 lbs	3:30	2000	70	0.90	6.8	669 lbs	3:31	2050	70	0.90	8.6	584 lbs	3:34	2300	70	1.20	10.4	649 lbs	3:36	2400	70	1.20	10.9	601 lbs
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3:34	2300	70	1.20	10.4	649 lbs																																									
3:36	2400	70	1.20	10.9	601 lbs																																									
05:00	06:00	1.00	P	Haul in and heat fluid, blend up acid and prep all equipment to perform frac on Interval #8.																																										

**FLUID SUMMARY**

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	0.00	0.00	0.00	0.00	5,829.25

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 20  
Report Date: 3/9/2014  
Final Job Status: GAS  
Final Report? Yes

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	30,000.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	4,120.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,495.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,025.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,420.00
Maintain Road & Location	CANOL OILFIELD SERVICES INC	D230	465.00
Maintain Road & Location	CANOL OILFIELD SERVICES INC	D230	830.00
Maintain Road & Location	CANOL OILFIELD SERVICES INC	D230	420.00
Maintain Road & Location	CANOL OILFIELD SERVICES INC	D230	830.00
Maintain Road & Location	CANOL OILFIELD SERVICES INC	D230	1,076.52
Maintain Road & Location	CANOL OILFIELD SERVICES INC	P100	4,420.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	E120	40,086.00
Service Rig	CONOCO	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	244.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	Q300	215.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	T130	1,670.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,595.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	16,520.00
Completion Fluids & Other Chem	ENZO ENERGY SERVICES - 1521872 AB	G300	16,520.00
Completion Fluids & Other Chem	ENZO ENERGY SERVICES - 1521872 AB	G300	0.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	450.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	50.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	D230	2,788.00
Maintain Road & Location	HRN CONTRACTING LTD	N110	7,510.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	Q300	500.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	P100	1,000.00
Trucking/Hauling/ Hot Shot Services	MCKAY EXPEDITING AND LOGISTICS LTD	T130	1,595.00
Wellsite Supervision & Engineering	MINAULT ENERGY SERVICES LTD	T130	1,595.00
Wellsite Supervision & Engineering	MJ'S WELLSITE SUPERVISION LTD	Q300	600.00
Surface Completion Equipment Rental	NAVIGATOR ENERGY SERVICES LTD	G300	25,480.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	G300	20,922.00
Completion Fluids & Other Chem	NORTHERN TRUCK SERVICES (1994) LTD	Q300	1,000.00
Surface Completion Equipment Rental	PBN ENERGY SERVICES LTD	Q300	15,963.00
Fracture Stimulation Services	PROTECHNICS - CORE LABS	N110	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	RIGSAT COMMUNICATIONS INC	Q300	15.00
Service Rig	RON'S AUTO SERVICE LTD	E120	500.00
Fracture Stimulation Services	SCHLUMBERGER CANADA LIMITED	N110	552,666.29
Service Rig	SCHLUMBERGER CANADA LIMITED	E120	38,077.06
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	27,900.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	7,500.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	24,900.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	26,400.00
Completion Fluids & Other Chem	TERVITA CORP	G300	4,500.00
Service Rig	TRIDENT OILFIELD SERVICES LTD	E120	200.00
Welltesting (Eqmnt, Srvcs, PTA, Gov't Subs)	WEATHERFORD CANADA	M220	23,080.22
Welltesting (Eqmnt, Srvcs, PTA, Gov't Subs)	WEATHERFORD CANADA PARTNERSHIP	M220	18,965.00

**CUMULATIVE JOB FLARED GAS BY ZONE**

Zone	Volume Gas Total (E3m³)
CANOL, Original Hole	1,627.510

**PERFORATIONS**

Date	Zone	Top (mKB)	Blm (mKB)	Shot Dens (shots/m)	Current Status
3/4/2014	CANOL, Original Hole	3,118.00	3,119.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,098.00	3,099.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,079.00	3,080.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,059.00	3,060.00	6.0	Open - Flowing
3/4/2014	CANOL, Original Hole	3,040.00	3,041.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,021.00	3,022.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	3,001.00	3,002.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,982.00	2,983.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,962.00	2,963.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,943.00	2,944.00	6.0	Open - Flowing
3/7/2014	CANOL, Original Hole	2,924.00	2,925.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,904.00	2,905.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,885.00	2,886.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,866.00	2,867.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,846.00	2,847.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,827.00	2,828.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,807.00	2,808.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,788.00	2,789.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,769.00	2,770.00	6.0	Open - Flowing
3/8/2014	CANOL, Original Hole	2,749.00	2,750.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,730.00	2,731.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,710.00	2,711.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,691.00	2,692.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,672.00	2,673.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,652.00	2,653.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,633.00	2,634.00	10.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,613.00	2,614.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,594.00	2,595.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,575.00	2,576.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,555.00	2,556.00	6.0	Open - Flowing
3/9/2014	CANOL, Original Hole	2,536.00	2,537.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,516.00	2,517.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,497.00	2,498.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,478.00	2,479.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,458.00	2,459.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,439.00	2,440.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,419.00	2,420.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,400.00	2,401.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,381.00	2,382.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,361.00	2,362.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,342.00	2,343.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,322.00	2,323.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,303.00	2,304.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,284.00	2,285.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,264.00	2,265.00	6.0	Open - Flowing
3/10/2014	CANOL, Original Hole	2,245.00	2,246.00	6.0	Open - Flowing



# Daily Morning Report

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

Report #: 21  
Report Date: 3/10/2014  
Final Job Status: GAS  
Final Report? Yes

### 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 P-20 65-00 126-45		API / UWI 200/D-020/L094P1699		License No. EL 470	
Orig KB/RT (m) 289.35	Ground Elevation (m) 284.15	KB-Grd (m) 5.20	KB-CF (m) 5.40	KB-TF (m) 4.10	Total Depth (mKB) 3,152.00 Original Hole - 3,129.60

### JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Total Field Estimate (Cost) 20,251,383.86
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Objective  
New Ventures HZ Canol Formation completion

Actual Start Date 2/18/2014 07:30	End Date 4/11/2014 06:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 lagartn	Responsible Grp 3 Chris Kendall
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### AFE COST SUMMARY

AFE / RFE / Maint.# 10351862	Total AFE Amount (Cost) 923,600.00	Total AFE + Supp Amount (Cost) 923,600.00	Total Field Estimate (Cost) 380,182.50	AFE-Field Estimate (Cost) 543,417.50
AFE / RFE / Maint.# 10359334	Total AFE Amount (Cost) 17,880,000.00	Total AFE + Supp Amount (Cost) 17,880,000.00	Total Field Estimate (Cost) 19,871,201.36	AFE-Field Estimate (Cost) -1,991,201.36

### DAILY INFORMATION

Report Start Date 3/10/2014 06:00	Report End Date 3/11/2014 06:00	Daily Cost Total (Cost) 1,976,515.83	Cumulative Cost (Cost) 11,139,815.23	Personnel Regular Hours (hr) 1,056.00
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#### Daily Contacts

WS Superintendent, Derrick Cove, 780-831-1314; Completion Engineer, Theorn LaGarde, 403-710-9753; WS Supervisor, Chris Kendall, 780-518-3284; WS Supervisor, Donald Williams, 403-352-6925; WS Supervisor, Justin Minault, 403 391-0714

Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather Clear	Temperature (°C) -28	Lease Condition Rig RIGLESS, RIGLESS 1 Ice Pad / Snow Covered
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#### Last 24hr Summary

Perform frac on Interval #8 - 2439.0- 2517.0

-Set B.P @ 2527.0mKB C.E, Perforate Cluster #1 on Interval #9 @ 2342.0 - 2420.0mKB. Preform selective breakdown: 0.3m³/min -30.2MPa, 1.07m³/min -0.5MPa

0.7m³/min -36.3MPa.

ISIP - 24.7MPa.

Perforate cluster's 2 thru 5 @ 2400 - 2401.0mKB, 2381.0 - 2382.0mKB, 2361 - 2362mKB , 2342 - 2343mKB

-Perform frac on Interval #9 - 2342.0 - 2420.0 mKB

-Set B.P @2333.0mKB C.E, perforate cluster #1 on Interval #10 @ 2322.0 - 2323.0mKB, perform selective breakdown: 0.3m³/min -36.9MPa, 1.54m³/min -39.7MPa, -1.05m³/min - 39.7m³.

ISIP -21.0MPa, 5 min -29.0MPa.

Perforate cluster's 2 thru 5 @2303.0 - 2304.0mKB, 2284.0 - 2285.0mKB, 2264.0 - 2265.0mKB, 2245.0 - 2246.0mKB

-Perform frac on Interval #10 - 2245.0 - 2323.0 mKB

#### 24hr Forecast

Drill out Bridge plugs & Clean out to P.B.T.B

### DAILY TIME LOG

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
06:00	06:00		P	Well site supervisors shift change
06:00	06:30	0.50	P	Safety and procedural meeting with all on location regarding daily activites. Conduct CPC PJHA regarding frac ops / pump down ops / hauling and heating fluids

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Operation																																										
06:30	08:30	2.00	P	<p>Perform frac on Interval #8 - 2439.0- 2517.0 mKB:            Hole Fill = Full            Initial Pressure - 4.7 mPa            Break Down - 31.7 MPa            Min Pressure - 31.5 mPa            Avg Pressure - 34.4mPa            Max Pressure - 37.9mPa            Min Rate - 9.4m³/min            Avg Rate - 9.5m³/min            Max Rate - 9.5m³/min            Sand Pumped 20.3 - T 40/70            59.7- T 30/50            22.8- T 30/50 PR6000            Max BHC -600 kg/m³            Acid Placed - 10.0m³            Water Pumped - 662.6 m³            Post Frac ISIP - 17.1 mPa</p> <p>Pumped 6.5 m³ of methanol water to winterize frac pumps</p>																																										
08:30	10:30	2.00	P	<p>Prepared Schlumberger E-Line equipment to Perforate Stage #9, Lifted lube into position and installed onto IPS buffalo frac head            Rigged in to equalize above and below the master valve and equalized            Opened master valve            RIH with 114.3mm 55.16 MPa Obsidian Bridge plug and 6 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60degree phasing            Using one(1) gun as a spare which was not fired            Perforation intervals as follows:            R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB            Initiate pump down sequence @ 1900 mKB.</p> <table border="1"> <thead> <tr> <th>TIME</th> <th>DEPTH(m)</th> <th>SPEED(m/min)</th> <th>RATE(L/min)</th> <th>PRESSURE(mPa)</th> <th>TENSION</th> </tr> </thead> <tbody> <tr> <td>10:00</td> <td>1900</td> <td>57</td> <td>0.30</td> <td>8.4</td> <td>778</td> </tr> <tr> <td>10:01</td> <td>1974</td> <td>57</td> <td>0.60</td> <td>9.4</td> <td>692</td> </tr> <tr> <td>10:02</td> <td>2033</td> <td>57</td> <td>0.82</td> <td>10.9</td> <td>616</td> </tr> <tr> <td>10:03</td> <td>2093</td> <td>57</td> <td>0.90</td> <td>11.8</td> <td>500</td> </tr> <tr> <td>10:04</td> <td>2134</td> <td>55</td> <td>1.10</td> <td>12.8</td> <td>525</td> </tr> <tr> <td>10:06</td> <td>2299</td> <td>55</td> <td>1.11</td> <td>13.3</td> <td>490</td> </tr> </tbody> </table> <p>Final depth with tool bottom 2435.7 mKB= 8.54 m³ for pump down.            Pull into position with ccl @2414.7 mKB setting Halliburton Obsidian bridge plug with center element @ 2430.0 mKB. B.Plug set with zonal isolation @ 10.08 a.m.            I.S.I.P. when setting B.Plug =9.2 mPa.            Pull E-Line into position to begin firing perf cluster #9</p>	TIME	DEPTH(m)	SPEED(m/min)	RATE(L/min)	PRESSURE(mPa)	TENSION	10:00	1900	57	0.30	8.4	778	10:01	1974	57	0.60	9.4	692	10:02	2033	57	0.82	10.9	616	10:03	2093	57	0.90	11.8	500	10:04	2134	55	1.10	12.8	525	10:06	2299	55	1.11	13.3	490
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10:04	2134	55	1.10	12.8	525																																									
10:06	2299	55	1.11	13.3	490																																									
10:30	12:30	2.00	P	<p>Pressure up wellbore to 35.0 mPa. monitor for 5 min with 0.3 mPa gain in pressure. = Good test. Bleed back well to 19.0 mPa            Perforate Cluster # 1-2419 - 2343 mKB @ 10:28            ISIP - 19.0 mPa / 1 min - 18.6 mPa / 2 min 18.7 mPa / 3 min 18.7 mPa / 4 min 18.7 mPa / 5 min - 18.7 mPa            Pulled up wireline 2m and establish stabilized feed rate @ 0.3 m³/min - 30.2 mPa.            Increased rate to 0.07m³/min -50.5 mPa            Step down rates 0.70 m³/min -36.3 mPa            Stop pumps - ISIP - 24.7 mPa / 5 min -13.0 mPa            Pumped 4.7m³            Continued perforating Clusters 2 and 5 @            2400 - 2401 mKB @ 10:47            2381 - 2382 mKB @ 10:48            2361 - 2362 mKB @ 10:50            2342 - 2343 mKB @ 10:52            P.O.O.H. and rig down wire line</p>																																										

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T X	Operation																														
12:30	14:30	2.00	P	<p>Perform frac on Interval #9 - 2342.0- 2420.0 mKB:            Hole Fill = Full            Initial Pressure - 6.8 mPa            Break Down - 50.5MPa            Min Pressure - 31.2mPa            Avg Pressure - 37.4mPa            Max Pressure - 41.4mPa            Min Rate - 9.4m³/min            Avg Rate - 9.5m³/min            Max Rate - 9.5m³/min            Sand Pumped 17.1 - T 40/70            63.6- T 30/50            25.8- T 30/50 PR6000            Max BHC -600 kg/m³            Acid Placed - 10.0m³            Water Pumped - 658.3m³            Post Frac ISIP - 21.5 mPa            CFT Tracer 2100</p> <p>Pumped 8.0 m³ of methanol water to winterize frac pumps</p>																														
14:30	16:30	2.00	P	<p>Prepared Schlumberger E-Line equipment to Perforate Stage #10, Lifted lube into position and installed onto IPS buffalo frac head            Rigged in to equalize above and below the master valve and equalized            Opened master valve            RIH with 114.3mm 55.16 MPa Obsidian Bridge plug and 6 - 21 gm .HMX (DP) Owens SDP-3125-411NT4 guns with 60degree phasing            Using one(1) gun as a spare which was not fired            Perforation intervals as follows:            R.I.H. w/ tool string correlating on depth to tie back packer @ 1728.3 mKB.            Initiate pump down sequence @ 1900 mKB.</p> <table border="1"> <thead> <tr> <th>TIME</th> <th>DEPTH(m)</th> <th>SPEED(m/min)</th> <th>RATE(L/min)</th> <th>PRESSURE(mPa)</th> <th>TENSION</th> </tr> </thead> <tbody> <tr> <td>16:20</td> <td>1900</td> <td>64</td> <td>0.30</td> <td>8.8</td> <td>744</td> </tr> <tr> <td>16:22</td> <td>1988</td> <td>64</td> <td>0.60</td> <td>10.0</td> <td>700</td> </tr> <tr> <td>16:23</td> <td>2040</td> <td>63</td> <td>0.90</td> <td>11.3</td> <td>640</td> </tr> <tr> <td>16:30</td> <td>2134</td> <td>62</td> <td>1.12</td> <td>13.5</td> <td>508</td> </tr> </tbody> </table> <p>Final depth with tool bottom 2321.9 mKB= 6.18 m³ for pump down.            Pull into position with ccl @2317.7 mKB setting Halliburton Obsidian bridge plug with center element @2333.0 mKB. B.Plug set with zonal isolation @ 16:30 a.m.            I.S.I.P. when setting B.Plug =9.7 mPa.            Pull E-Line into position to begin firing perf cluster #10</p>	TIME	DEPTH(m)	SPEED(m/min)	RATE(L/min)	PRESSURE(mPa)	TENSION	16:20	1900	64	0.30	8.8	744	16:22	1988	64	0.60	10.0	700	16:23	2040	63	0.90	11.3	640	16:30	2134	62	1.12	13.5	508
TIME	DEPTH(m)	SPEED(m/min)	RATE(L/min)	PRESSURE(mPa)	TENSION																													
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16:22	1988	64	0.60	10.0	700																													
16:23	2040	63	0.90	11.3	640																													
16:30	2134	62	1.12	13.5	508																													
16:30	18:30	2.00	P	<p>Pressure up wellbore to 36.6 mPa. monitor for 5 min with 0.3 mPa gain in pressure. = Good test. Bleed back well to 18.4 mPa            Perforate Cluster # 1-2322.0 -2323.0 mKB @ 16:52            ISIP - 18.2 mPa / 1 min -18.0 mPa / 2 min17.8 mPa / 3 min17.8 mPa / 4 min17.8 mPa / 5 min -17.8 mPa            Pulled up wireline 2m and establish stabilized feed rate @ 0.3 m³/min -30.2 mPa.            Increased rate to1.54m³/min -39.7 mPa            Step down rate1.05 m³/min -29.0 mPa            Stop pumps - ISIP -21.0 mPa / 5 min -13.1 mPa            Pumped XXX m³            Continued perforating Clusters 2 and 5 @            2303 - 2304 mKB @ 17:12            2284 - 2285 mKB @ 17:15            2264 - 2265 mKB @ 17:17            2245 - 2246 mKB @17:19            P.O.O.H. and rig down wire line</p>																														

**Daily Morning Report**  
**COPRC MIRROR LAKE P-20 65-00 126-45**

Report #: 21  
Report Date: 3/10/2014  
Final Job Status: G  
Final Report? Y

**DAILY TIME LOG**

Start Time	End Time	Dur (hr)	Time P-T-X	Operation
18:30	21:30	3.00	P	Perform frac on Interval #10 - 2245 mKB - 2323 mKB: Hole Fill = Full Initial Pressure - 6.8 mPa Break Down - 30.5 MPa Min Pressure - 22.5 mPa Avg Pressure - 35.7 mPa Max Pressure - 41.4 mPa Min Rate - 4.0m³/min Avg Rate - 9.6m³/min Max Rate - 9.7m³/min Sand Pumped 36 - T 40/70 50 - T 30/50 18 - T 30/50 PR6000 Max BHC -600 kg/m³ Acid Placed - 10.0m³ Water Pumped - 707.4m³ Post Frac ISIP - 17.1 mPa CFT Tracer 2200
21:30	04:00	6.50	P	Rigged out the Frac Equipment, Removed E-Line B.O.P, Transferred Fluids in Tank Farm, Started moving the Frac equipment off the location. Prepared the Coil Tbg Unit, Pressure tested the Coil B.O.P's . 1.5 MPa Low/ 50 MPa High on the slips (15 min each test). Test good. 1.5 MPa Low/ 50 MPa High on the Shear (15 min each test). Test good. Installed the Coil B.O.P's and Injector on the well,
04:00	06:00	2.00		Held P.J.H.A meeting with all services, Circulated & warmed up the coil equipment, Pressure tested the Coil Lube 1.5 MPa low Pressure bled down, Re-Pressured up Pressure bled down, Pressured up to 10 mpa, pressure bleeding down, Pressured up to 50 MPa high. Pressure Bleeding off out of the stripper Hose. Changed out stripper rubber.
06:00	06:00			Safety and procedural meeting with all on location regarding daily activites. Conduct CPC PJHA regarding drill out of bridge plugs with Coil Tbg.

**FLUID SUMMARY**

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
	0.00	0.00	0.00	0.00	
FRESH WATER	2,095.00	39.00	2,090.56	0.00	7,919.81

**DAILY COST**

BU Desc	Vendor	Activity Code	Amount (Cost)
Fracture Stimulation Services	CANOL OILFIELD SERVICES INC	N110	30,000.00
Pressure Truck/Hot Oiler	CANOL OILFIELD SERVICES INC	S990	3,500.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	1,170.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	4,750.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	1,170.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	1,977.00
Trucking/Hauling/ Hot Shot Services	CANOL OILFIELD SERVICES INC	P100	11,544.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Surface Completion Equipment Rental	CANOL OILFIELD SERVICES INC	Q300	2,275.00
Maintain Road & Location	CANOL OILFIELD SERVICES INC	D230	2,025.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Completion Fluids & Other Chem	CANOL OILFIELD SERVICES INC	G300	3,430.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,420.00
Service Rig	CANOL OILFIELD SERVICES INC	E120	2,495.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	2,200.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	1,700.00
Service Rig	CORNERSTONE OILFIELD SERVICES LTD	E120	244.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES LTD	Q300	215.00
Wellsite Supervision & Engineering	DEN JAR CONSULTING LTD	T130	1,670.00
Wellsite Supervision & Engineering	DON WILLIAMS - BIRD DOG	T130	1,595.00
Safety Equipment & Services	FRONTIERMEDEX CANADA LTD/ EXLOGS SAHTU LTD	T430	0.
Service Rig	HRN CONTRACTING LTD	E120	2,000.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	450.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	400.00
Surface Completion Equipment Rental	HRN CONTRACTING LTD	Q300	50.00
Fracture Stimulation Services	ISOLATION EQUIPMENT SERVICES INC	N110	9,140.00
Surface Completion Equipment Rental	MACKAY RANGE DEVELOPMENT CORP	Q300	500.00