



Daily Morning Report

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

705364

v4

Report #: 5

Report Date: 3/30/2013

Final Job Status: HOLD

Final Report? Yes

Job Cat: COMPLETIONS Job Typ: INITIAL COMPLETION Sub Typ:

WELL HEADER INFORMATION

Surface Legal Location C-011-L/94-P-16		API / UWI 200/C-011-L/094-P-16/99			License No. EL470		
Country CANADA		State/Province N.W.T.		Region/Division WCBU	District NEW VENTURES	Field Name MIRROR LAKE	Field Code
Orig KB/RT (m) 286.50	Ground Elevation (m) 281.30	KB-Grd (m) 5.20	KB-CF (m) 4.87	KB-TF (m) 4.32	TD All (TVD) (mKB) Original Hole - 2145.2	PBTD (All) (mKB) Original Hole - 2127.0	

JOB INFORMATION

Actual Start Date 3/26/2013 09:00	End Date 3/30/2013 16:00	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 metzgkn	Responsible Grp 3 Myles Hahn	MaxWell Job Number JOB1@2012
--------------------------------------	-----------------------------	--------------	----------------------------	------------------------------	---------------------------------	---------------------------------

Objective**ORIGINAL COMPLETION**

AFE / RFE / Maint.# 10345530	Total Job AFE Amount 1,846,400.00	Total Job AFE + Sup Amount 1,846,400.00	Daily Cost Total 24,430.00	Cumulative Cost 703,489.53
Rig		Personnel Regular Hours (hrs) 55.00		Cum Personnel Total Hours (hrs) 1,182.00

Daily Contacts

WS Foreman, Myles Hahn, 780-402-0500; Completions Engineer, Kyle Metzgar, 403-971-8424; WS Supervisor, Doug Smith, 780-518-6273; WS Superintendent, Derrick Cove, 780-831-1314; Completions Engineer, Theron LeGarde, 403-710-9753

Report Start Date 3/30/2013 07:00	Report End Date 3/30/2013 16:00	Tubing Pressure (kPa)	Casing Pressure (kPa) 0	Weather Clear	Temperature (°C) -22	Lease Condition Icy
--------------------------------------	------------------------------------	-----------------------	----------------------------	------------------	-------------------------	------------------------

Last 24hr Summary

Loaded out remaining equipment, Hauled to km 7 rack site. Cleaned up location. Turn site over to construction operations

24hr Forecast

Final report

TIME LOG

Start Time	End Time	Dur (hrs)	Time P-T-X	Operation
07:00	07:30	0.50	P	Conducted Pre-job hazard assesment with all personnel, Identified potential hazards associated with "Move out" operations. All safety concerns were noted and documented in CPC PJHA. Dicussed ERP plan and emergency procedures in case of incident. Checked all valid tickets.
07:30	15:30	8.00	P	Loaded out and moved out Remaining wellsite equipment. Wellhead secured with lock and chain. Combination # 6127. Completions equipment at rack site: - HD Work platform (dual tier) - McClellands 69MPa work spool (one side has dual valves c/w 10k choke / other side has single valve) - McClellands 179mm 69MPa x 179mm 34.5MPa adapter spool c/w studs - McClellands Hammer wrenches Turn wellsite over to construction operations. Final Report.

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	2.51

DAILY COST

BU Desc	Vendor	SubCode	Amount
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	235.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	250.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	250.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	450.00
Wellsite Supervision & Engineering	DOUG SMITH - 1152070 AB	T130	1,550.00
Surface Completion Equipment Rental	EXPERT MOBILE COMMUNICATIONS LTD	Q300	25.00
Trucking/Hauling/ Hot Shot Services	HODGSON'S CONTRACTING (2005) INC - CONSTRUC...	P100	15,000.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Wellsite Supervision & Engineering	M HAHN CONSULTING INC	T130	1,550.00
Surface Completion Equipment Rental	MCCLELLAND OILFIELD RENTALS LTD	Q300	1,160.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	SAHTU BUILDING SUPPLIES	Q300	745.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00

CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)



Daily Morning Report

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

Report #: 5
Report Date: 30/2013
Final Job Status: HOLD
Final Report? Yes

Job Cat: COMPLETIONS Job Typ: INITIAL COMPLETION Sub Typ:

PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/27/2013 12:26	Basal Lower Canol, Ori...	2,059.00	2,060.00	20.0	Plugged
3/28/2013 04:00	Middle Lower Canol, Or...	2,023.00	2,024.00	20.0	Plugged
3/28/2013 18:23	Upper Lower Canol, Ori...	1,993.00	1,994.00	20.0	Plugged



Daily Morning Report

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

705364
v 3

Report #: 4

Report Date: 3/29/2013

Final Job Status:

Final Report? No

Job Cat: COMPLETIONS Job Typ: INITIAL COMPLETION Sub Typ:

WELL HEADER INFORMATION

Surface Legal Location C-011-L/94-P-16		API / UWI 200/C-011-L/094-P-16/99			License No. EL470	
Country CANADA		State/Province N.W.T.		Region/Division WCBU	District NEW VENTURES	Field Name MIRROR LAKE
Orig KB/RT (m) 286.50	Ground Elevation (m) 281.30	KB-Grd (m) 5.20	KB-CF (m) 4.87	KB-TF (m)	TD All (TVD) (mKB) Original Hole - 2145.2	PBTD (All) (mKB) Original Hole - 2127.0

JOB INFORMATION

Actual Start Date 3/26/2013 09:00	End Date	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 metzgkn	Responsible Grp 3 Myles Hahn	MaxWell Job Number JOB1@2012
--------------------------------------	----------	--------------	----------------------------	------------------------------	---------------------------------	---------------------------------

Objective**ORGINAL COMPLETION**

AFE / RFE / Maint.# 10345530	Total Job AFE Amount 1,846,400.00	Total Job AFE + Sup Amount 1,846,400.00	Daily Cost Total 57,275.00	Cumulative Cost 679,059.53
Rig		Personnel Regular Hours (hrs) 289.00		Cum Personnel Total Hours (hrs) 1,127.00

Daily Contacts

WS Foreman, Myles Hahn, 780-402-0500; WS Supervisor, Doug Smith, 780-518-6273; WS Superintendent, Derrick Cove, 780-831-1314; Completions Engineer, Kyle Metzgar, 403-971-8424; Completions Engineer, Theron LeGarde, 403-710-9753

Report Start Date 3/29/2013 06:00	Report End Date 3/29/2013 20:30	Tubing Pressure (kPa)	Casing Pressure (kPa) 0	Weather Clear	Temperature (°C) -25	Lease Condition Icy
--------------------------------------	------------------------------------	-----------------------	----------------------------	------------------	-------------------------	------------------------

Last 24hr Summary

Rig out remaining equipment on location. Washed wellhead and cleaned up debris. Readied equipment to be moved in AM.

24hr Forecast

Move all equipment off location.

TIME LOG

Start Time	End Time	Dur (hrs)	Time P-T-X	Operation
06:00	20:30	14.50	P	<p>Sent picker to town to grab a trailer. Loaded picker load (HD work platform, McClellands spool + Basket, garbage box, lift of planks) and moved to KM 7 rack site. Rigged out light towers and dry heat exchanger. Moved second picker load off location. Connely max dry heat unit was moved to KM 7 rack site and the 4 light towers were moved to CPC rack site in NW. Washed wellhead and sucked out cellar. Cleaned wellsite command center. Chained and locked wellhead (combination 6127).</p> <p>Completions equipment at rack site:</p> <ul style="list-style-type: none"> - HD Work platform (dual tier) - McClellands 69MPa work spool (one side has dual valves c/w 10k choke / other side has single valve) - McClellands 179mm 69MPa x 179mm 34.5MPa adapter spool c/w studs - McClellands Hammer wrenches <p>** Leftover Propylene glycol was off loaded into a 400bbl tank in CPC rack site (Hodgsons yard NW) - glycol was transferred to town in a dirty vac truck **</p>

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	2.51

DAILY COST

BU Desc	Vendor	SubCode	Amount
Surface Completion Equipment Rental	AURORA TECHNOLOGIES	Q300	300.00
Rig Camp	CONOCO	E500	750.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	235.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	250.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	250.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	450.00
Wellsite Supervision & Engineering	DOUG SMITH - 1152070 AB	T130	1,550.00
Surface Completion Equipment Rental	EXPERT MOBILE COMMUNICATIONS LTD	Q300	25.00
Trucking/Hauling/ Hot Shot Services	HODGSON'S CONTRACTING (2005) INC - CONSTRUC...	P100	8,420.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Wellsite Supervision & Engineering	M HAHN CONSULTING INC	T130	1,550.00
Surface Completion Equipment Rental	MCCLELLAND OILFIELD RENTALS LTD	Q300	1,160.00
Completion Fluids & Other Chem	MYB CONSTRUCTION	G300	3,000.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	SAHTU BUILDING SUPPLIES	Q300	745.00
Downhole Completion Equipment	SCHLUMBERGER CANADA LIMITED	C100	5,000.00
Electric Line Servs on Drilling Ops.	SCHLUMBERGER CANADA LIMITED	K100	30,375.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00



Daily Morning Report

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

Report #: 4
Report Date: 07/29/2013
Final Job Status: REDACTED
Final Report? No

Job Cat: COMPLETIONS Job Typ: INITIAL COMPLETION Sub Typ:

DAILY COST

BU Desc	Vendor	SubCode	Amount
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00

CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)

PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/27/2013 12:26	Basal Lower Canol, Ori...	2,059.00	2,060.00	20.0	Plugged
3/28/2013 04:00	Middle Lower Canol, Or...	2,023.00	2,024.00	20.0	Plugged
3/28/2013 18:23	Upper Lower Canol, Ori...	1,993.00	1,994.00	20.0	Plugged



Daily Morning Report

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

705364

v2

Report #: 3

Report Date: 3/28/2013

Final Job Status:

Final Report? No

Job Cat: COMPLETIONS Job Typ: INITIAL COMPLETION Sub Typ:

WELL HEADER INFORMATION

Surface Legal Location C-011-L/94-P-16		API / UWI 200/C-011-L/094-P-16/99			License No. EL470	
Country CANADA		State/Province N.W.T.		Region/Division WCBU	District NEW VENTURES	Field Name MIRROR LAKE
Orig KB/RT (m) 286.50	Ground Elevation (m) 281.30	KB-Grd (m) 5.20	KB-CF (m) 4.87	KB-TF (m)	TD All (TVD) (mKB) Original Hole - 2145.2	PBTD (All) (mKB) Original Hole - 2127.0

JOB INFORMATION

Actual Start Date 3/26/2013 09:00	End Date	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 metzgkn	Responsible Grp 3 Myles Hahn	MaxWell Job Number JOB1@2012
--------------------------------------	----------	--------------	----------------------------	------------------------------	---------------------------------	---------------------------------

Objective

ORIGINAL COMPLETION

AFE / RFE / Maint.# 10345530	Total Job AFE Amount 1,846,400.00	Total Job AFE + Sup Amount 1,846,400.00	Daily Cost Total 133,356.00	Cumulative Cost 540,662.53
Rig		Personnel Regular Hours (hrs) 279.00		Cum Personnel Total Hours (hrs) 838.00

Daily Contacts

WS Supervisor, Doug Smith, 780-518-6273; Completions Engineer, Theron LeGarde, 403-710-9753; WS Foreman, Myles Hahn, 780-402-0500; Completions Engineer, Kyle Metzgar, 403-971-8424; WS Superintendent, Derrick Cove, 780-831-1314

Report Start Date 3/28/2013 06:00	Report End Date 3/29/2013 06:00	Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather	Temperature (°C)	Lease Condition
			0	Slight Overcast	-26	Icy

Last 24hr Summary

RIH with Smith CW BP c/w 69MPa recorders below. Performed D-fit test on "Middle" Lower Canol formation from 2023.0 to 2024.0mKB. Performed a dynamic set of BP with CE at 2020.5mKB. Set a second BP above with CE at 2017.5mKB. Pressure tested BP to 40MPa. Dumped bailed 3 linear meters of sand on top of bridge plug. Perforated "Upper" Lower Canol formation from 1993.0 to 1994.0mKB. Performed D-fit test on "Upper" Lower Canol formation from 1993.0 to 1994.0 mKB. Performed a dynamic set of BP with CE at 1990.0 mKB. Set a second BP above with CE at 1986.0 mKB. Rigged out E-line unit and related equipment.

24hr Forecast

Rig out remaining equipment on location. Secure wellhead with lock and Chain.

TIME LOG

Start Time	End Time	Dur (hrs)	Time P-T-X	Operation
06:00	06:30	0.50	P	Armed a Smith CW retrievable BP for 177.8 mm, 38.69kg/m casing c/w Tandem Lonkar 10K Recorders installed below in a bullnosed 60.3 mm Perforated pup jt, programmed as follows : 2 second picks for the first 12 hrs 10 second picks for the next 24 hrs 1 min picks for remainder of Test. Up to 356 days Top Gauge #1, SN # 9732 - Battery on @ 06:31 hrs. Bottom Gauge #2, SN # 9733 - Battery on @ 06:31 hrs.
06:30	07:00	0.50	P	Crew shift change. Held a daily safety and operations meeting with all personnel. Reviewed and discussed CPC PJHA #032803 regarding daily activities and all associated hazards. Discussed ERP plan and emergency procedures.
07:00	11:00	4.00	P	Stabbed lubricator onto the well and pressure tested it to 33MPa. Bled down to well pressure (SICP: 3400kPa). Opened master and ran in hole with BP. Correlated BP on depth to Schlumberger Gamma ray log dated March 27, 2012. Started to pump D-fit. Brought pump rate up to 0.15m³ pumping 70% Propylene Glycol / 30% water. Broke formation at 18MPa. Theron Legarde was on location calling D-fit. Performed a dynamic set of bridge plug while pumping (total of 0.72m³ pumped). BP was set at 09:42 with CE at 2020.5mKB. Good setting indication was seen in line truck and 650lbs weight was lost. Sat and monitored well for 10 minutes. BP appears to be holding. Pulled out of the hole with wireline. BP top at 2019.79mKB / CE at 2020.50mKB / BP bottom at 2021.18mKB.
11:00	14:00	3.00	P	Armed a Smith CW retrievable BP for 177.8 mm, 38.69kg/m casing. SICP: 11000 kPa. Pressured lubricator up to 11MPa. Opened master and ran in hole. Correlated BP on depth to Schlumberger Gamma ray log dated March 27, 2012. Set BP with CE at 2017.5mKB. Good setting indication was seen in line truck and 280lbs weight was lost. Pulled out of the hole and laid down setting tool. BP top at 2016.79mKB / CE at 2017.50mKB / BP bottom at 2018.26mKB.
14:00	14:45	0.75	P	SICP: 10670 kPa. Pressure tested bridge plug to 40MPa for 10 minutes. Pressure held solid. Good test.
14:45	16:45	2.00	P	Filled bailer with 98 kg, 32.3 kg/m for 177.8 mm casing coarse sand and ran in hole. Tagged BP top at 2016.79mKB Spotted 3.0 Linear meters on top of BP. Pulled out of the hole. Laid down bailer. Sand top @ 2013.79mKB.

Job Cat: COMPLETIONS Job Typ: INITIAL COMPLETION Sub Typ:

TIME LOG

Start Time	End Time	Dur (hrs)	Time P-T-X	Operation
16:45	18:30	1.75	P	Held tailgate meeting and discussed arming perforating gun. Armed a 3m ERHSC carrier c/w 1m of 23 gr Owen SDP 3375-311 MT charges @ 20 spm 60 degree phasing. Hoisted gun into lubricator and stabbed onto well. Filled lubricator and tested it to 10MPa. Opened master and ran in hole. Correlated gun on depth to Schlumberger GR/CCL log dated Mar.27/13. Pressured casing up to 4500kPa. 18:23 Perforated the "Upper" Lower Canol formation over the interval from 1993.0mKB to 1994.0mKB. SICP prior to shooting = 4548 kPa ISIP= 3425 kPa 1 min = 3641 kPa (pressure bouncing) / 2 min = 3121 kPa / 3 min = 3310 kPa / 4 min = 3273 kPa / 5 min = 3263 kPa
18:30	19:00	0.50	P	Crew shift change. Reviewed and discussed CPC PJHA #280313 with all personnel. Identified potential hazards associated with "E-line, D-FIT" operations. All safety concerns were noted and documented in CPC PJHA. Discussed ERP plan and emergency procedures in case of incident. Checked all valid tickets.
19:00	21:30	2.50	P	Armed a Smith CW retrievable BP for 177.8 mm, 38.69kg/m casing c/w Tandem Lonkar 10K Recorders installed below in a bullnosed 60.3 mm Perforated pup jt. programmed as follows : 2 second picks for the first 12 hrs 10 second picks for the next 24 hrs 1 min picks for remainder of Test. Up to 356 days Top Gauge #1, SN # 9784 - Battery on @ 19:36 hrs. Bottom Gauge #2, SN # 9785 - Battery on @ 19:36 hrs.
21:30	23:00	1.50	P	Stabbed lubricator onto the well and pressure tested it to 33MPa. Bled down to well pressure (SICP: 3400kPa). Opened master and ran in hole with BP. Correlated BP on depth to Schlumberger Gamma ray log dated March 27, 2012. Started to pump D-fit. Brought pump rate up to 0.15m³ pumping 70% Propylene Glycol / 30% water. Broke formation at 20.3 MPa. Theron Legarde was on location calling D-fit. Performed a dynamic set of bridge plug while pumping (total of 0.79m³ pumped). BP was set at 10:04 with CE at 1990.0 mKB. Good setting indication was seen in line truck and 550 lbs weight was lost. Sat and monitored well for 10 minutes. BP appears to be holding. Pulled out of the hole with wireline. BP top at 1989.21 mKB / CE at 1990.0 mKB / BP bottom at 1993.08 mKB. SICP= 13,246 kPa Rigged out and released Peregrin Pressure truck.
23:00	02:00	3.00	P	Armed a Smith CW retrievable BP for 177.8 mm, 38.69kg/m casing. SICP: 13,246 kPa. Pressured lubricator up to 13 MPa. Opened master and ran in hole. Correlated BP on depth to Schlumberger Gamma ray log dated March 27, 2012. Set BP with CE at 1986.0mKB. Good setting indication was seen in line truck and 320lbs weight was lost. Pulled out of the hole and laid down setting tool. BP top at 1985.21 mKB / CE at 1986.0 mKB / BP bottom at 1987.08 mKB.
02:00	03:00	1.00	P	SICP = 13,200 kPa. Bled back wellbore to 0.0 kPa. RIH/w bailer and displaced glycol down to 5 m from surface.
03:00	06:00	3.00	P	Rigged out SLB E-line unit and related equipment. Rigged out HD work platform, Removed McClelland work spool. Installed Steamflow single master top section.

FLUID SUMMARY

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	0.00	7.99	1.51	0.00	2.51

DAILY COST

BU Desc	Vendor	SubCode	Amount
Surface Completion Equipment Rental	AURORA TECHNOLOGIES	Q300	300.00
Rig Camp	CONOCO	E500	1,500.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	235.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	250.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	250.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	450.00
Wellsite Supervision & Engineering	DOUG SMITH - 1152070 AB	T130	1,550.00
Surface Completion Equipment Rental	EXPERT MOBILE COMMUNICATIONS LTD	Q300	25.00
Trucking/Hauling/ Hot Shot Services	HODGSON'S CONTRACTING (2005) INC - CONSTRUC...	P100	8,420.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	2,850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	2,850.00
Wellsite Supervision & Engineering	M HAHN CONSULTING INC	T130	1,550.00
Surface Completion Equipment Rental	MC CLELLAND OILFIELD RENTALS LTD	Q300	1,160.00
Completion Fluids & Other Chem	MYB CONSTRUCTION	G300	3,000.00
Pressure Truck/Hot Oiler	PEREGRINE PRESSURE TESTING LTD	S990	11,400.00
Pressure Truck/Hot Oiler	PEREGRINE PRESSURE TESTING LTD	S990	24,756.00



Daily Morning Report

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

Report #: 3
Report Date: 3/28/2013
Final Job Status:
Final Report? No

Job Cat: COMPLETIONS Job Typ: INITIAL COMPLETION Sub Typ:

DAILY COST

BU Desc	Vendor	SubCode	Amount
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	SAHTU BUILDING SUPPLIES	Q300	745.00
Downhole Completion Equipment	SCHLUMBERGER CANADA LIMITED	C100	68,850.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00

CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)

PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/27/2013 12:26	Basal Lower Canol, Ori...	2,059.00	2,060.00	20.0	Plugged
3/28/2013 04:00	Middle Lower Canol, Or...	2,023.00	2,024.00	20.0	Plugged
3/28/2013 18:23	Upper Lower Canol, Ori...	1,993.00	1,994.00	20.0	Plugged



Daily Morning Report

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

DM 705364

Report #: 2
 Report Date: 3/27/2013
 Final Job Status:
 Final Report? No

WELL HEADER INFORMATION

Surface Legal Location C-011-L/94-P-16		API / UWI 200/C-011-L/094-P-16/99			License No. EL470	
Country CANADA		State/Province N.W.T.		Region/Division WCBU	District NEW VENTURES	Field Name MIRROR LAKE
Orig KB/RT (m) 286.50	Ground Elevation (m) 281.30	KB-Grd (m) 5.20	KB-CF (m) 4.87	KB-TF (m)	Total Depth (mKB) 2,146.00	PBTD (All) (mKB) Original Hole - 2127.00

JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type
Objective ORIGINAL COMPLETION		
Actual Start Date 3/26/2013 09:00	End Date	Abandon Date coved
AFE / RFE / Maint.# 10345530	Total Job AFE Amount 1,846,400.00	Total AFE+Sup 1,846,400.00
Rig	Personnel Regular Hours (hrs) 279.00	Cum Personnel Total Hours (hrs) 559.00

Daily Contacts

Completions Engineer, Kyle Metzgar, 403-971-8424; Completions Engineer, Theron LeGarde, 403-710-9753; WS Superintendent, Derrick Cove, 780-831-1314; WS Foreman, Myles Hahn, 780-402-0500; WS Supervisor, Doug Smith, 780-518-6273

Report Start Date 3/27/2013 06:00	Report End Date 3/28/2013 06:00	Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather 0 Clear	Temperature (°C) -10	Lease Condition Icy
--------------------------------------	------------------------------------	-----------------------	-----------------------	-----------------------	-------------------------	------------------------

Last 24hr Summary

Finished POOH with logging tools. Perforated "Basal" Lower Canol from 2059.0mKB to 2060.0mKB. Performed D-fit test on "Basal" Lower canol interval with BP in hole c/w recorders on bottom. Dynamically set BP when pumping D-fit. BP CE set at 2056.5mKB. Set back up BP w c/e @ 2046.0 mKB. Pressure tested to 40,000 kPa for 10 min. Dump bailed 3 Linear meters of sand on top of BP. Perforated the "Middle" Lower Canol from 2023.0 - 2024.0 mKB.

24hr Forecast

Perform D-fit on the "Middle" Lower Canol. Set BP, RIH/w back up BP, Pressure test to 40.0 MPa. Dump sand. Perform the "Upper" Lower Canol, Perform D-Fit, Set Back up BP. Pressure test to 40.0 MPa.

TIME LOG

Start Time	End Time	Dur (hrs)	Time P-T-X	Operation
06:00	06:30	0.50	P	Continued to log well to surface (Gamma ray/cement bond log).
06:30	07:00	0.50	P	Crew shift change. Held a daily safety and operations meeting with all personnel. Reviewed and discussed CPC PJHA #032703 regarding daily activities and all associated hazards. Discussed ERP plan and emergency procedures.
07:00	07:45	0.75	P	Finished logging to surface. Pulled and laid down logging tools. Correlated on depth to Platform Express Compensated Neutron Dual Lithology Density Log dated Mar.20/13.
07:45	08:45	1.00	P	Filled wellbore (0.1m ³ to fill) and pressure tested casing to 61.5MPa. Pressure held solid for 15 minutes. Good test.
08:45	14:00	5.25	P	Rigged in Schlumberger 177.8mm lubricator. Held tailgate meeting and discussed arming perforating gun. Armed gun and stabbed lubricator onto the well. Filled lubricator with and pressure tested it to 33MPa. Good test. Ran in hole with a 3m x 127mm ERHSC carrier c/w 1m of 23 gr Owen SDP 3375-311 NT charges @ 20 spm 60 degree phasing. Correlated gun on depth to Schlumberger Platform Express dual Lithology density log dated March 20, 2013 (Gun Gamma tool ran to correlate to open hole log). Pressured casing up to 4500 kPa and perforated the "Basal" Lower Canol interval from 2059.0mKB to 2060.0mKB. Pressure immediately after shooting = 3959 kPa 1 minute = 3209 kPa / 2 minutes = 3109 kPa / 3 minutes = 3063 / 4 minutes = 3069 kPa / 5 minutes = 3079 kPa Pulled out of the hole maintaining minimum of 2500kPa on casing. All shots fired with correct orientation. Carrier was in good shape.
14:00	18:00	4.00	P	Armed a Smith CW retrievable BP for 177.8 mm, 38.69kg/m casing c/w Tandem Lonkar 10K Recorders installed below in a bullnosed 60.3 mm Perforated pup jt, programmed as follows : 2 second picks for the first 12 hrs 10 second picks for the next 24 hrs 1 min picks for remainder of Test. Up to 356 days Top Gauge #1, SN # 9730 - Battery on @ 14:02 hrs. Bottom Gauge #2, SN # 9731 - Battery on @ 14:02 hrs. Stabbed lubricator onto the well and pressure tested it to 33MPa. Bled down to well pressure (2600 kPa). Opened master and ran in hole with BP. Correlated it on depth to Schlumberger Gamma ray log dated March 27, 2012. Started to pump D-fit. Brought pump rate up to 0.15m ³ pumping 70% Propylene Glycol / 30% water. Seen first break at 18MPa and 3 more breaks after. D-fit was called on location by Theron Lagarde. Performed a dynamic set of bridge plug while pumping (total of 1.0m ³ pumped). BP was set at 16:41 with CE at 2056.5mKB. Good setting indication was seen in line truck and 420lbs weight was lost. Sat and monitored well for 10 minutes. BP leaked off 2000 kPa in ten minutes and appeared to be leaking. Pulled out of the hole with wireline. Laid down setting tool

Daily Morning Report

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

Report #: 2
 Report Date: 3/27/2013
 Final Job Status:
 Final Report? No

TIME LOG

Start Time	End Time	Dur (hrs)	Time P-T-X	Operation
18:00	18:30	0.50	P	Armed a Smith CW retrievable BP for 177.8 mm, 38.69kg/m casing. RIH/w Bridge plug
18:30	19:00	0.50	P	Crew shift change. Reviewed and discussed CPC PJHA #270313 with all personnel. Identified potential hazards associated with "E-line, D-FIT" operations. All safety concerns were noted and documented in CPC PJHA. Discussed ERP plan and emergency procedures in case of incident. Checked all valid tickets.
19:00	21:30	2.50	P	Continued in hole with Schlumberger M-CW 69MPa retrievable bridge plug. Correlated it on depth to Schlumberger Gamma ray log dated March 27, 2012. Logged into position and set in casing with c/e @ 2046.0 mKB 2 m above collar @ 2048.0 mKB BP set @ 19:55. SICP= 5699 kPa, BP top at 2045.29 mKB / CE at 2046.0 mKB / BP bottom at 2046.77 mKB. Retrieved setting tool to surface. 21:00: SICP= 47 kPa, Shut in, bled back lubricator and laid down BHA.
21:30	22:30	1.00	P	Pressure tested the BP @ 2045.29 mKB to 1,400 kPa, (low) for 10 min No leak off. Increased pressure to 15,000 kPa. Discovered Leak at wellhead @ 15,000 kPa, Companion flange on transducer side of wellhead leaking significantly, Leak contained to drip trays, Isolated flange and rectified leak. Pressured back up to 15,000 kPa. Holding, Increased to 30,000 kPa, Holding, Increased to 40,000 kPa for 10 min. Pressure test held solid with no leak off. Bled back pressure to pressure unit. Took 764 L to pressure up casing. recovered 760 L when bled off.
22:30	02:00	3.50	P	Filled bailer with 98 kg, 32.3 kg/m for 177.8 mm casing coarse sand and ran in hole. Tagged BP top at 2045.29 mKB Spotted 3.0 Linear meters on top of BP. Pulled out of the hole. Laid down bailer. Sand top @ 2042.29 mKB. Winch line on picker caught in sheave. Lay down lubricator and inspect slings, overhead clevis, Sheave and winch cable. All appear normal. Picked up lubricator.
02:00	06:00	4.00	P	Conducted operational meeting with all personnel, Armed a 3m ERHSC carrier c/w 1m of 23 gr Owen SDP 3375-311 MT charges @ 20 spm 60 degree phasing. RIH and correlate on depth to Schlumberger GR/CCL log dated Mar.27/13. Short Marker jet @ 1164.0 mKB and mKB. Perforated the "Middle" Lower Canol formation over the interval from 2023.0- 2024.0 mKB. SICP prior to shooting = 4530 kPa ISIP= 3764 kPa 1 min = 3462 kPa 2 min = 3257 kPa 3 min = 3200kPa 4 min = 3153 kPa 5 min = 3153 kPa POOH at 45 m/min maintaining 2500-3500 kPa on wellbore. Retrieved spent gun to surface and inspected. All shots fired and centered in scallops. 06:00 SICP= 3444 kPa

FLUID SUMMARY

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
FRESH WATER	10.50	0.00	1.00	0.00	1.00

DAILY COST

BU Desc	Vendor	SubCode	Amount
Surface Completion Equipment Rental	AURORA TECHNOLOGIES	Q300	300.00
Rig Camp	CONOCO	E500	1,500.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	275.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	235.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	95.00
Wellsite Supervision & Engineering	DOUG SMITH - 1152070 AB	T130	1,550.00
Surface Completion Equipment Rental	EXPERT MOBILE COMMUNICATIONS LTD	Q300	25.00
Trucking/Hauling/ Hot Shot Services	HODGSON'S CONTRACTING (2005) INC - CONSTRUC...	P100	8,420.00
Surface Completion Equipment Rental	HODGSON'S CONTRACTING (2005) INC - CONSTRUC...	Q300	60.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	2,925.00
Wellsite Supervision & Engineering	M HAHN CONSULTING INC	T130	1,550.00
Surface Completion Equipment Rental	MCCLELLAND OILFIELD RENTALS LTD	Q300	1,160.00
Completion Fluids & Other Chem	MYB CONSTRUCTION	G300	2,000.00
Pressure Truck/Hot Oiler	PEREGRINE PRESSURE TESTING LTD	S990	15,000.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	SAHTU BUILDING SUPPLIES	Q300	745.00
Downhole Completion Equipment	SCHLUMBERGER CANADA LIMITED	C100	3,350.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00

CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)



Daily Morning Report

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

Report #: 2

Report Date: 3/27/2013

Final Job Status:

Final Report? No

PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/27/2013	Basal Lower Canol, Ori...	2,059.00	2,060.00	20.0	Plugged
3/28/2013	Middle Lower Canol, Or...	2,023.00	2,024.00	20.0	Open - Not Flowing



Daily Morning Report

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

DM 705364

Report #: 1
Report Date: 3/26/2013
Final Job Status:
Final Report? No

WELL HEADER INFORMATION

Surface Legal Location C-011-L/94-P-16		API / UWI 200/C-011-L/094-P-16/99			License No. EL470	
Country CANADA		State/Province N.W.T.		Region/Division WCBU	District NEW VENTURES	Field Name MIRROR LAKE
Orig KB/RT (m) 286.50	Ground Elevation (m) 281.30	KB-Grd (m) 5.20	KB-CF (m) 4.87	KB-TF (m)	Total Depth (mKB) 2,146.00	PBTD (All) (mKB) Original Hole - 2127.0

JOB INFORMATION

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type
-----------------------------	--	--------------------

Objective

ORIGINAL COMPLETION

Actual Start Date 3/26/2013 09:00	End Date	Abandon Date	Responsible Grp 1 coved	Responsible Grp 2 metzgkn	Responsible Grp 3 Myles Hahn
AFE / RFE / Maint.# 10345530	Total Job AFE Amount 1,846,400.00	Total AFE+Sup 1,846,400.00	Daily Cost Total 78,954.00	Cumulative Cost 78,954.00	AFE-Field Estimate 1,725,041.00
Rig	Personnel Regular Hours (hrs) 280.00			Cum Personnel Total Hours (hrs) 280.00	

Daily Contacts

Completions Engineer, Kyle Metzgar, 403-971-8424; Completions Engineer, Theron LeGarde, 403-710-9753; WS Foreman, Myles Hahn, 780-402-0500; WS Supervisor, Doug Smith, 780-518-6273; WS Superintendent, Derrick Cove, 780-831-1314

Report Start Date 3/26/2013 09:00	Report End Date 3/27/2013 06:00	Tubing Pressure (kPa)	Casing Pressure (kPa)	Weather 0 Clear	Temperature (°C) -15	Lease Condition Icy
--------------------------------------	------------------------------------	-----------------------	-----------------------	-----------------------	-------------------------	------------------------

Last 24hr Summary

Installed tubing spool and tested. Installed master valve and work spool. Performed 10 minute SCVF test. Good test. Rigged in Schlumberger wireline. Ran in hole 154mm gauge ring junk basket combo and tagged PBTD at 2127mKB. Ran in hole Gamma Ray CBL logging tools. Logged well from 2127mKB to surface.

24hr Forecast

Finish POOH with logging tools. RIH and perforate. RIH with BP c/w recorders and perform D-fit test.

TIME LOG

Start Time	End Time	Dur (hrs)	Time P-T-X	Operation
09:00	11:30	2.50	P	Arrived on site. Drilling equipment was still moving off location.
11:30	13:30	2.00	P	Drilling equipment was now all moved clear from wellhead. Loaded picker load at KM 46.9 and moved onto location. Reviewed and discussed CPC PJHA with all personnel (SLB, Stream Flo, Canol and Peregrine) regarding daily activities and all associated hazards.
13:30	17:30	4.00	P	Removed surface casing valves. Cut and dressed casing. Installed 279mm 34.5MPa x 179mm 69MPa tubing spool. Pressure tested primary seals to 34000 kPa for 10 minutes. Good test. Installed 179mm 69MPa master valve (torqued with hydraulic wrench). Installed McClellands 69MPa work spool and Schlumberger 35MPa spool. Performed a ten minute SCVF test. Zero bubble (no flow) detected in ten minutes. Good test.
17:30	18:30	1.00	P	Rigged in HD safe work platform. Installed Schlumberger tool trap and BOPs.
18:30	19:00	0.50	P	Crew shift change. Reviewed and discussed CPC PJHA #260303 with all personnel regarding night time activities and all associated hazards. Performed cross shift.
19:00	20:00	1.00	P	Tarped in wellhead and rigged in Connelly Max dry heat unit. Finished rig in of all Schlumberger wireline equipment.
20:00	22:30	2.50	P	Ran in hole with a 154mm gauge ring. Displacing wellbore fluid to Vac. Soft Tagged PBTD @ 2127.0 mKB. Pumped 80 L of Glycol into wellbore to prevent freezing. Retrieved Tool string to surface.
22:30	00:30	2.00	P	Assembled SLB 42.86 mm Gamma ray/ Casing collar locator, Cement bond log/ Variable Density Log tool.
00:30	06:00	5.50	P	RIH/w logging tool to PBTD @ 2127.0 mKB. High speed down identified Cement top @ 195.0 mKB. Tagged PBTD @ 2127.0 mKB. Performed 150 m repeat pass. Performed Log from PBTD to surface @ 10 m/min.

FLUID SUMMARY

Fluid	To lease (m³)	From lease (m³)	To well (m³)	From well (m³)	Left to recover (m³)
-------	---------------	-----------------	--------------	----------------	----------------------

DAILY COST

BU Desc	Vendor	SubCode	Amount
Surface Completion Equipment Rental	AURORA TECHNOLOGIES	Q300	300.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	275.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	235.00
Surface Completion Equipment Rental	CORNERSTONE OILFIELD SERVICES INC	Q300	95.00
Wellsite Supervision & Engineering	DOUG SMITH - 1152070 AB	T130	1,550.00
Surface Completion Equipment Rental	EXPERT MOBILE COMMUNICATIONS LTD	Q300	25.00
Rig Camp	HODGSON CONTRACTING LTD	E500	1,500.00
Trucking/Hauling/ Hot Shot Services	HODGSON'S CONTRACTING (2005) INC - CONSTRUC...	P100	8,420.00
Surface Completion Equipment Rental	HODGSON'S CONTRACTING (2005) INC - CONSTRUC...	Q300	60.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	850.00



Daily Morning Report

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

Report #: 1
Report Date: 03/26/2013
Final Job Status:
Final Report? No

DAILY COST

BU Desc	Vendor	SubCode	Amount
Welltesting (Eqpmt,Srvcs,PTA,Gov't Subs)	LONKAR SERVICES LTD	M220	2,925.00
Wellsite Supervision & Engineering	M HAHN CONSULTING INC	T130	1,550.00
Surface Completion Equipment Rental	MCCLELLAND OILFIELD RENTALS LTD	Q300	1,160.00
Completion Fluids & Other Chem	MYB CONSTRUCTION	G300	2,000.00
Pressure Truck/Hot Oiler	PEREGRINE PRESSURE TESTING LTD	S990	15,000.00
Surface Completion Equipment Rental	RIGSAT COMMUNICATIONS INC	Q300	15.00
Surface Completion Equipment Rental	SAHTU BUILDING SUPPLIES	Q300	745.00
Downhole Completion Equipment	SCHLUMBERGER CANADA LIMITED	C100	3,350.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00
Surface Completion Equipment Rental	STM SERVICES	Q300	325.00
Surface Equipment / Installation	STREAM FLO INDUSTRIES LTD	B110	36,549.00

CUMULATIVE JOB FLARED GAS BY ZONE

Zone	Volume Gas Total (E3m³)

PERFORATIONS

Date	Zone	Top (mKB)	Btm (mKB)	Shot Dens (shots/m)	Current Status
3/27/2013	Basal Lower Canol, Ori...	2,059.00	2,060.00	20.0	Plugged
3/28/2013	Middle Lower Canol, Or...	2,023.00	2,024.00	20.0	Open - Not Flowing