

I have conductor samples, they are in plastic bags with labels, will wash and describe ASAP. Muddlogging equipment is rigged up & running OK.



ConocoPhillips

DAILY GEOLOGICAL REPORT  
CONOCO PHILLIPS CANADA

ConocoPhillips

WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2	
DATE 27-Jan-13	REPORT 2	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence	CELL PHONE 403-536-6939	RIG PHONE 587-794-4599	
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 2	FORMATION Quaternary		WEATHER CONDITIONS -33 C	
		06:00 STATUS:		Drilling 311mm surface hole			
0600 DEPTH 191	LAST REPORT 20	PROGRESS 171	BIT # 1	Bit Type Smith S11G	BIT SIZE 311	TOTAL MTRS 171	Bit Hrs 14
DRILLING FLUID Gel Chem		DEN (kg/m^3) 1130	VISCOSITY 62	WATER LOSS n/a	pH 9.5	DAILY DRLG HRS 14	ROP (m/hr) 12.2

## OPERATIONS SUMMARY - PAST 24 HOURS

Rig to spud &amp; spud well @ 12:00 hrs, drill 311mm surface hole &amp; survey as required.

## OPERATIONS FORECAST - NEXT 24 HOURS

Drill ahead &amp; survey as required

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
20	170	12.0	19	14	Shale					

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Arctic Red	118	140									
Sans Sault	813	-555									
Martin House	888	-630									
Imperial Shale	958	-700									
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

## COMMENTS

Last survey @ 171m was 0.6 degrees.



Last survey @ 390m was 1.1 degrees.



691597  
v4

<b>ConocoPhillips</b>		<b>DAILY GEOLOGICAL REPORT</b> CONOCO PHILLIPS CANADA		<b>ConocoPhillips</b>	
<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.	
<b>DATE</b> 29-Jan-13	<b>REPORT</b> 4	<b>REPORTING TO</b> Dave Oakley	<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG #</b> 2
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 4	<b>FORMATION</b> Slater River	<b>WEATHER CONDITIONS</b> -35 C
<b>06:00 STATUS:</b> Tripping (POOH)					
<b>0600 DEPTH</b> 587	<b>LAST REPORT</b> 431	<b>PROGRESS</b> 156	<b>BIT #</b> 1	<b>Bit Type</b> Smith S11G	<b>BIT SIZE</b> 311
				<b>TOTAL MTRS</b> 587	<b>Bit Hrs</b> 38.75
<b>DRILLING FLUID</b> Gel Chem	<b>DEN (kg/m^3)</b> 1155	<b>VISCOSITY</b> 75	<b>WATER LOSS</b> 5.5	<b>pH</b> 8	<b>DAILY DRLG HRS</b> 14
				<b>ROP (m/hr)</b> 11.0	

**OPERATIONS SUMMARY - PAST 24 HOURS**

Drill 311mm surface hole to 471m, change out brake line on drawworks, drill to 500m, level rig, drill ahead & survey as required to 587m, circ btms up, POOH (wiper trip), work mud ring @ 400m, POOH to 350 and work mud ring (tite hole), POOH (trip depth @ 06:00 hrs is 320m)

**OPERATIONS FORECAST - NEXT 24 HOURS**

Finish wiper trip, drill to surface TD (600m), POOH, log with Schlumberger.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
413	587	11.0	91	45	Shale					

FORMATION / MARKER TOPS											
FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320									
Sans Sault	813	-555									
Martin House	888	-630.0									
Imperial	958	-700.0									
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

**COMMENTS**

Last survey @ 555m was 1.2 degrees.



691597 VS

<b>ConocoPhillips</b>		<b>DAILY GEOLOGICAL REPORT</b> CONOCO PHILLIPS CANADA				<b>ConocoPhillips</b>	
<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.		<b>RIG #</b> 2	
<b>DATE</b> 30-Jan-13	<b>REPORT</b> 5	<b>REPORTING TO</b> Dave Oakley		<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599	
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 5	<b>FORMATION</b> Slater River		<b>WEATHER CONDITIONS</b> -40 C	
<b>06:00 STATUS:</b> Lay down 200mm collars							
<b>0600 DEPTH</b> 600	<b>LAST REPORT</b> 587	<b>PROGRESS</b> 13	<b>BIT #</b> 1	<b>Bit Type</b> Smith S11G	<b>BIT SIZE</b> 311	<b>TOTAL MTRS</b> 600	<b>Bit Hrs</b> 46.75
<b>DRILLING FLUID</b> Gel Chem		<b>DEN (kg/m^3)</b> 1150	<b>VISCOSITY</b> 88	<b>WATER LOSS</b> 7.0	<b>pH</b> 8	<b>DAILY DRLG HRS</b> 1.25	<b>ROP (m/hr)</b> 10.0

**OPERATIONS SUMMARY - PAST 24 HOURS**

Wiper trip out of hole to surface, RIH to 290m, ream & clean to 587m, drill to surface TD @ 600 meters, build volume, raise vis, circ & cond mud, POOH to 100m, RIH back to bottom, circ btms up, POOH to log, lay down 200mm drill collars (trip depth 77m)

**OPERATIONS FORECAST - NEXT 24 HOURS**

Finish tripping, rig up loggers, log with sclumberger, run casing surface casing.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
587	600	10.0	63	45	Shale					

FORMATION / MARKER TOPS											
FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320									
Sans Sault	813	-555									
Martin House	888	-630.0									
Imperial	958	-700.0									
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

**COMMENTS**

Last survey @ 592m was 0.6 degrees. Loggers came out to our camp last night from Norman wells. Will be here on location shortly.



691997  
V6

<b>ConocoPhillips</b>		<b>DAILY GEOLOGICAL REPORT</b> CONOCO PHILLIPS CANADA				<b>ConocoPhillips</b>	
<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.		<b>RIG #</b> 2	
<b>DATE</b> 31-Jan-13	<b>REPORT</b> 6	<b>REPORTING TO</b> Dave Oakley		<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599	
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 6	<b>FORMATION</b> Slater River		<b>WEATHER CONDITIONS</b> Partial Cloud -27 C	
<b>06:00 STATUS:</b> Circ csg @ surface TD							
<b>0600 DEPTH</b> 600	<b>LAST REPORT</b> 600	<b>PROGRESS</b> 0	<b>BIT #</b> 1	<b>Bit Type</b> Smith S11G	<b>BIT SIZE</b> 311	<b>TOTAL MTRS</b> 600	<b>Bit Hrs</b> 46.75
<b>DRILLING FLUID</b> Gel Chem		<b>DEN (kg/m^3)</b> 1150	<b>VISCOSITY</b> 88	<b>WATER LOSS</b> 7.0	<b>pH</b> 8	<b>DAILY DRLG HRS</b>	<b>ROP (m/hr)</b>

**OPERATIONS SUMMARY - PAST 24 HOURS**

POOH, rig to & log / Schlumberger (AIT-DSI-PPC-TLD-HGNS-TLD2-GPIT), rig out loggers, rig to & run 244.5mm surface casing, circ csg.

**OPERATIONS FORECAST - NEXT 24 HOURS**

Cement surface casing, nipple down diverter, nipple up.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
587	600	10.0	63	45	Shale					

FORMATION / MARKER TOPS											
FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320									
Sans Sault	813	-555									
Martin House	888	-630.0									
Imperial	958	-700.0									
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

**COMMENTS**

Casing landed @ 597 meters. Estimate 7 days from today for wireline truck for coring



691597 V7

<b>ConocoPhillips</b>		<b>DAILY GEOLOGICAL REPORT</b> CONOCO PHILLIPS CANADA		<b>ConocoPhillips</b>	
<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.	
<b>RIG #</b> 2					
<b>DATE</b> 01-Feb-13	<b>REPORT</b> 7	<b>REPORTING TO</b> Dave Oakley	<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 7	<b>FORMATION</b> Slater River	<b>WEATHER CONDITIONS</b> Light Snow -25 C
<b>06:00 STATUS:</b> Nipple up BOPs					
<b>0600 DEPTH</b> 600	<b>LAST REPORT</b> 600	<b>PROGRESS</b> 0	<b>BIT #</b> 1	<b>Bit Type</b> Smith S11G	<b>BIT SIZE</b> 311
<b>TOTAL MTRS</b> 600		<b>Bit Hrs</b> 46.75			
<b>DRILLING FLUID</b> Gel Chem	<b>DEN (kg/m^3)</b> 1150	<b>VISCOSITY</b> 88	<b>WATER LOSS</b> 7.0	<b>pH</b> 8	<b>DAILY DRLG HRS</b> 8
<b>ROP (m/hr)</b>					

**OPERATIONS SUMMARY - PAST 24 HOURS**

Circ csg, rig in cementers and cement 244.5mm surface casing, WOC, nipple down diverter, install casing bowl & torque same, nipple up BOPs.

**OPERATIONS FORECAST - NEXT 24 HOURS**

Continue to nipple up, pressure test, prepare rig, make up new BHA, RIH, displace to invert, drill out.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
587	600	10.0	63	45	Shale					

FORMATION / MARKER TOPS											
FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320									
Sans Sault	813	-555									
Martin House	888	-630.0									
Imperial	958	-700.0									
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

**COMMENTS**

Casing landed @ 597 meters. Good cement returns to surface



691597  
v8

<b>ConocoPhillips</b>		<b>DAILY GEOLOGICAL REPORT</b> CONOCO PHILLIPS CANADA				<b>ConocoPhillips</b>	
<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.		<b>RIG #</b> 2	
<b>DATE</b> 02-Feb-13	<b>REPORT</b> 8	<b>REPORTING TO</b> Dave Oakley		<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599	
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 8	<b>FORMATION</b> Slater River		<b>WEATHER CONDITIONS</b> Cloudy -23 C	
<b>06:00 STATUS:</b> Pressure test							
<b>0600 DEPTH</b> 600	<b>LAST REPORT</b> 600	<b>PROGRESS</b> 0	<b>BIT #</b> 1	<b>Bit Type</b> Smith S11G	<b>BIT SIZE</b> 311	<b>TOTAL MTRS</b> 600	<b>Bit Hrs</b> 46.75
<b>DRILLING FLUID</b> Gel Chem		<b>DEN (kg/m^3)</b> 1150	<b>VISCOSITY</b> 88	<b>WATER LOSS</b> 7.0	<b>pH</b> 8	<b>DAILY DRLG HRS</b>	<b>ROP (m/hr)</b>

**OPERATIONS SUMMARY - PAST 24 HOURS**

Nipple up BOPs, inspect rig with NEB, pressure test BOPs with Schlumberger, pressure test kelly cock, stabbing valve and inside BOP.

**OPERATIONS FORECAST - NEXT 24 HOURS**

Finish pressure test, make up bit & BHA with mud motor, MWD & Gamma, RIH, displace to invert, drill out, drill ahead.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
587	600	10.0	63	45	Shale					

FORMATION / MARKER TOPS													
FORMATION	PROGNOSIS			SAMPLE			FORMATION	PROGNOSIS			SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS		MARKER TOPS	TVD	SS	MD	TVD	SS	
Quaternary	5	252	5.0	5.0	252								
Little Bear	28	229	31.0	31.0	227								
Slater River	48	210	36.0	36.0	222								
Artic Red	578	-320											
Sans Sault	813	-555											
Martin House	888	-630.0											
Imperial	958	-700.0											
Upper Canol	1648	-1390.0											
Lower Canol	1673	-1415.0											
Hare Indian	1768	-1510.0											
Bluefish Member	1783	-1525.0											
Hume	1798	-1540.0											
TD	1848	-1590.0											

**COMMENTS**

Had the mudlogger do a pre drill-out check on gas detectors last night and everything is OK.



WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2	
DATE 03-Feb-13	REPORT 9	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence	CELL PHONE 403-536-6939	RIG PHONE 587-794-4599	
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 9	FORMATION Slater River		WEATHER CONDITIONS Cloudy -29 C	
06:00 STATUS: Drilling 222mm hole							
0600 DEPTH 657	LAST REPORT 600	PROGRESS 57	BIT # 2	Bit Type Reed MSR616M	BIT SIZE 222	TOTAL MTRS 57	Bit Hrs 5.5
DRILLING FLUID Invert		DEN (kg/m^3) 870	VISCOSITY 49	WATER LOSS	pH	DAILY DRLG HRS 5.5	ROP (m/hr) 10.0

## OPERATIONS SUMMARY - PAST 24 HOURS

Pressure test, pick-up directional tools & BHA, RIH, displace to invert, pressure test pipe rams & upper kelly cock, accumulator function test, drill out, drill 222mm main hole to 613m, do a F.I.T., drill ahead.

## OPERATIONS FORECAST - NEXT 24 HOURS

Drill ahead & survey as required

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
600	650	10.0	137	100	Shale					

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320									
Sans Sault	813	-555									
Martin House	888	-630.0									
Imperial	958	-700.0									
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

## COMMENTS

Last survey @ 640m 1.1 degrees, AZ 125.12. Gamma not working properly.



DM 691597

V10

ConocoPhillips		DAILY GEOLOGICAL REPORT CONOCO PHILLIPS CANADA				ConocoPhillips					
WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2					
DATE 04-Feb-13	REPORT 10	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence	CELL PHONE 403-536-6939	RIG PHONE 587-794-4599					
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 10	FORMATION Imperial		WEATHER CONDITIONS Cloudy -29 C					
06:00 STATUS: Drilling 222mm hole											
0600 DEPTH 1066	LAST REPORT 657	PROGRESS 409	BIT # 2	Bit Type Reed MSR616M	BIT SIZE 222	TOTAL MTRS 466	Bit Hrs 26				
DRILLING FLUID Invert	DEN (kg/m <sup>3</sup> ) 910	VISCOSITY 50	WATER LOSS		pH	DAILY DRLG HRS 20.5	ROP (m/hr) 20.0				
OPERATIONS SUMMARY - PAST 24 HOURS											
Drill 222mm main hole & survey as required											
OPERATIONS FORECAST - NEXT 24 HOURS											
Drill ahead & survey as required											
BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)					
From	To	ROP	Max	Avg	Gross Lith.	From	To				
650	1057	20.0	300	120	Shale & sand						
FORMATION / MARKER TOPS											
FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									
COMMENTS											
Last survey @ 1043.6m was 2.11 degrees, 57.62 AZ											

WID  
2080







DM 691597 v12  
 WID 2080

<b>ConocoPhillips</b>		<b>DAILY GEOLOGICAL REPORT</b> CONOCO PHILLIPS CANADA				<b>ConocoPhillips</b>	
<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.		<b>RIG #</b> 2	
<b>DATE</b> 06-Feb-13	<b>REPORT</b> 12	<b>REPORTING TO</b> Dave Oakley		<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599	
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 12	<b>FORMATION</b> Imperial	<b>WEATHER CONDITIONS</b> Cloudy -23 C		
<b>06:00 STATUS:</b> Lay down Dir Tools							
<b>0600 DEPTH</b> 1622	<b>LAST REPORT</b> 1440	<b>PROGRESS</b> 182	<b>BIT #</b> 2	<b>Bit Type</b> Reed MSR616M	<b>BIT SIZE</b> 222	<b>TOTAL MTRS</b> 1022	<b>Bit Hrs</b> 49
<b>DRILLING FLUID</b> Invert		<b>DEN (kg/m^3)</b> 920	<b>VISCOSITY</b> 58	<b>WATER LOSS</b>	<b>pH</b>	<b>DAILY DRLG HRS</b> 8.25	<b>ROP (m/hr)</b> 22.0

**OPERATIONS SUMMARY - PAST 24 HOURS**

Drill 222mm main hole & survey as required to 1600m, control drill to 1622m (corepoint), circ btms up, POOH, lay down HWDP & DC's, lay down directional tools.

**OPERATIONS FORECAST - NEXT 24 HOURS**

Finish dir tools, pick-up core bbl's & RIH, cut core#1 and wireline out.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1430	1622	22.0	91	60	Shale & sand	1619	1620	127	55	Shale

FORMATION / MARKER TOPS											
FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

**COMMENTS**

Last survey @ 1607.85m was 1.1 degrees, 88.69 AZ



ConocoPhillips

DAILY GEOLOGICAL REPORT  
CONOCO PHILLIPS CANADA

ConocoPhillips

<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.		<b>RIG #</b> 2	
<b>DATE</b> 07-Feb-13	<b>REPORT</b> 13	<b>REPORTING TO</b> Dave Oakley		<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599	
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 13	<b>FORMATION</b> Imperial		<b>WEATHER CONDITIONS</b> Partial Cloud -28 C	
<b>06:00 STATUS:</b> Cut core#1							
<b>0600 DEPTH</b> 1622	<b>LAST REPORT</b> 1622	<b>PROGRESS</b> 0	<b>BIT #</b> 1C	<b>Bit Type</b> NOV PR513	<b>BIT SIZE</b> 222	<b>TOTAL MTRS</b> 0	<b>Bit Hrs</b> 0
<b>DRILLING FLUID</b> Invert	<b>DEN (kg/m^3)</b> 920	<b>VISCOSITY</b> 60	<b>WATER LOSS</b>	<b>pH</b>	<b>DAILY DRLG HRS</b> 0	<b>ROP (m/hr)</b> 0.0	

## OPERATIONS SUMMARY - PAST 24 HOURS

Lay down directional tools, pick up coring tools, make up core tools, pick up 8 core collars, RIH with drill pipe, pick up 17 singles & RIH to bottom, circ btms up, retrieve drill rod with wireline, handle & rig up inner core bbls and RIH on wireline, start cutting core#1.

## OPERATIONS FORECAST - NEXT 24 HOURS

Cut core#1, circ btms up, POOH with wireline and retrieve core, re-make core bbls & RIH and cut core#2.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
						1622	1622	40		Trip gas

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0									
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

## COMMENTS

We have just started cutting core#1 @ 0600 hrs.

DM 691597 v13

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2080



691597 v14

<b>ConocoPhillips</b>		<b>DAILY GEOLOGICAL REPORT</b> CONOCO PHILLIPS CANADA		<b>ConocoPhillips</b>	
<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.	
<b>RIG #</b> 2					
<b>DATE</b> 08-Feb-13	<b>REPORT</b> 14	<b>REPORTING TO</b> Dave Oakley	<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 14	<b>FORMATION</b> Upper Canol	<b>WEATHER CONDITIONS</b> Partial Cloud -28 C
<b>06:00 STATUS:</b> Cut core#2					
<b>0600 DEPTH</b> 1659	<b>LAST REPORT</b> 1622	<b>PROGRESS</b> 37	<b>BIT #</b> 1C	<b>Bit Type</b> NOV PR513	<b>BIT SIZE</b> 222
		<b>TOTAL MTRS</b> 37	<b>Bit Hrs</b> 6.25		
<b>DRILLING FLUID</b> Invert	<b>DEN (kg/m^3)</b> 920	<b>VISCOSITY</b> 60	<b>WATER LOSS</b>	<b>pH</b>	<b>DAILY DRLG HRS</b> 6.25
		<b>ROP (m/hr)</b> 6.0			

**OPERATIONS SUMMARY - PAST 24 HOURS**

Cut core#1, circ btms up, rig up wireline and wireline core#1 out of hole, recover & lay down core, circ btms up, rig up inner bbls and set drill rod, cut core#2.

**OPERATIONS FORECAST - NEXT 24 HOURS**

Cut core#2, circ btms up, POOH with wireline and retrieve core, re-make core bbls & RIH and cut core#3.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1622	1649	7.0	350	200	Shale					

FORMATION / MARKER TOPS											
FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

**COMMENTS**

We have just started cutting core#2 @ 04:20 hrs. Core#1 was from 1622-1649m Cut:27m, REC:27m



WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2	
DATE 09-Feb-13	REPORT 15	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence	CELL PHONE 403-536-6939	RIG PHONE 587-794-4599	
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 15	FORMATION Canol		WEATHER CONDITIONS Light Snow -22 C	
06:00 STATUS: Wireline out Core#3							
0600 DEPTH 1703	LAST REPORT 1659	PROGRESS 44	BIT # 1C	Bit Type NOV PR513	BIT SIZE 222	TOTAL MTRS 81	Bit Hrs 11.75
DRILLING FLUID Invert		DEN (kg/m^3) 945	VISCOSITY 68	WATER LOSS	pH	DAILY DRLG HRS 5.5	ROP (m/hr) 8.0

## OPERATIONS SUMMARY - PAST 24 HOURS

Cut core#2, circ btms up, rig up wireline and wireline core#1 out of hole, recover & lay down core, circ btms up, rig up inner bbls and set drill rod, cut core#3 to 1703m, circ & cond, rig in Schlumberger wireline and wireline out with core#3.

## OPERATIONS FORECAST - NEXT 24 HOURS

Wireline out with core#3, lay down & recover same, drop inner bbls and cut core#4 and recover same.

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1649	1703	8.0	286	200	Shale					

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

## COMMENTS

Core#2 from 1649 - 1676m. Cut:27.0m, Rec: 27.0m. Core#3 from 1676m - 1703m, Cut: 27m, weight of core indicates good recovery.



WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2			
DATE 10-Feb-13	REPORT 16	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence	CELL PHONE 403-536-6939	RIG PHONE 587-794-4599			
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 16	FORMATION Canol		WEATHER CONDITIONS Ice fog -16 C			
06:00 STATUS: Wireline out Core#4									
0600 DEPTH 1730		LAST REPORT 1703		PROGRESS 27	BIT # 1C	Bit Type NOV PR513	BIT SIZE 222	TOTAL MTRS 108	Bit Hrs 15.5
DRILLING FLUID Invert		DEN (kg/m^3) 945	VISCOSITY 68		WATER LOSS		pH	DAILY DRLG HRS 3.75	ROP (m/hr) 7.0

## OPERATIONS SUMMARY - PAST 24 HOURS

Wireline out core#3, lay down & recover same (Cut 27, Rec:27), RIH with 3 stands, circ & cond mud, make up core bbls and pump to btm, cut core#4 from 1703 - 1730m, circ btms up, rig up Schlumberger wireline and wireline out with core#4 (current depth of core @ 06:00 hrs is 600 meters)

## OPERATIONS FORECAST - NEXT 24 HOURS

Finish wireline out with core#4, lay down & recover same, pump in new core sleeves and cut core#5 and recover same.

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1703	1730	7.0	369	220	Shale					

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

## COMMENTS

Core#3 from 1676 - 1703m Cut: 27, Rec 27, Core#4 from 1703 - 1730m, weight of core indicates good recovery.



WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2			
DATE 11-Feb-13	REPORT 17	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence		CELL PHONE 403-536-6939	RIG PHONE 587-794-4599		
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 17	FORMATION Canol		WEATHER CONDITIONS Partial Cloud -16 C			
06:00 STATUS: Wireline out Core#5									
0600 DEPTH 1757		LAST REPORT 1730		PROGRESS 27	BIT # 1C	Bit Type NOV PR513	BIT SIZE 222	TOTAL MTRS 108	Bit Hrs 18.5
DRILLING FLUID Invert		DEN (kg/m^3) 945	VISCOSITY 68		WATER LOSS		pH	DAILY DRLG HRS 3	ROP (m/hr) 9.0

## OPERATIONS SUMMARY - PAST 24 HOURS

Wireline out core#4, lay down & recover same (Cut 27, Rec:27), RIH with 5 stands, circ & cond mud, make up core bbls and pump to btm, cut core#5 from 1730 - 1757m, circ btms up, rig up Schlumberger wireline and wireline out with core#4 (current depth of core @ 06:00 hrs is 152 meters)

## OPERATIONS FORECAST - NEXT 24 HOURS

Finish wireline out with core#5, lay down & recover same, pump in new core sleeves and cut core#6 and recover same.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1730	1739	9.0	360	300	Shale					
1739	1752	9.0	820	700	Shale					

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

## COMMENTS

Core#4 from 1703-1730m Cut: 27, Rec 27, Core#5 from 1730-1757m, weight of core indicates good recovery.



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V18

<b>ConocoPhillips</b>		<b>DAILY GEOLOGICAL REPORT</b> CONOCO PHILLIPS CANADA				<b>ConocoPhillips</b>	
<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.		<b>RIG #</b> 2	
<b>DATE</b> 12-Feb-13	<b>REPORT</b> 18	<b>REPORTING TO</b> Dave Oakley		<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599	
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 18	<b>FORMATION</b> Canol		<b>WEATHER CONDITIONS</b> Partial Cloud -20 C	
<b>06:00 STATUS:</b> Recover Core#6							
<b>0600 DEPTH</b> 1784	<b>LAST REPORT</b> 1757	<b>PROGRESS</b> 27	<b>BIT #</b> 1C	<b>Bit Type</b> NOV PR513	<b>BIT SIZE</b> 222	<b>TOTAL MTRS</b> 162	<b>Bit Hrs</b> 22
<b>DRILLING FLUID</b> Invert		<b>DEN (kg/m^3)</b> 940	<b>VISCOSITY</b> 80	<b>WATER LOSS</b>	<b>pH</b>	<b>DAILY DRLG HRS</b> 3.5	<b>ROP (m/hr)</b> 7.7

**OPERATIONS SUMMARY - PAST 24 HOURS**

Wireline out core#5, lay down & recover same (Cut 27, Rec:27), RIH with 5 stands, circ & cond mud, make up core bbls and pump to btm, cut core#6 from 1757 - 1784m, circ btms up, rig up Schlumberger wireline and wireline out with core#6, recover same.

**OPERATIONS FORECAST - NEXT 24 HOURS**

Finish recover core#6, pump in new core sleeves and cut core#7 and recover same.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1757	1784	7.7	668	550	Shale					

FORMATION / MARKER TOPS											
FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0									
TD	1848	-1590.0									

**COMMENTS**

Core#5 from 1730-1757m Cut: 27, Rec 27, Core#6 from 1757-1784m, weight of core indicates good recovery.



WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2	
DATE 13-Feb-13	REPORT 19	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence		CELL PHONE 403-536-6939	RIG PHONE 587-794-4599
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 19	FORMATION Hume		WEATHER CONDITIONS Partial Cloud -20 C	
06:00 STATUS: Cut Core#8							
0600 DEPTH 1816	LAST REPORT 1784	PROGRESS 32	BIT # 1C	Bit Type NOV PR513	BIT SIZE 222	TOTAL MTRS 194	Bit Hrs 26.75
DRILLING FLUID Invert		DEN (kg/m^3) 940	VISCOSITY 80	WATER LOSS	pH	DAILY DRLG HRS 4.75	ROP (m/hr) 7.0

## OPERATIONS SUMMARY - PAST 24 HOURS

Lay down & recover Core#6, RIH / 4 stands, circ & cond, pump down inner core bbls, cut core #7 from 1784 - 1811m, cut: 27m, rig in Schlumberger wireline & POOH / core # 7 and recover same (full recovery), trip in 4 stands of DP, circ & cond mud, pump down inner core bbls, cut core#8.

## OPERATIONS FORECAST - NEXT 24 HOURS

Cut Core# 8 and recover same, core to TD.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1784	1811	7.0	524	450	Shale & Limest	1784	1784	1609		Trip gas
						1811	1811	2768		Trip gas

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0	1804.0	1804.0	-1546						
TD	1848	-1590.0									

## COMMENTS

Core # 6 & 7 full recovery.



ConocoPhillips

DAILY GEOLOGICAL REPORT  
CONOCO PHILLIPS CANADA

ConocoPhillips

WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2			
DATE 14-Feb-13	REPORT 20	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence		CELL PHONE 403-536-6939	RIG PHONE 587-794-4599		
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 20	FORMATION Hume		WEATHER CONDITIONS Clear -24 C			
06:00 STATUS: Cut Core#9									
0600 DEPTH 1853		LAST REPORT 1816		PROGRESS 37	BIT # 1C	Bit Type NOV PR513	BIT SIZE 222	TOTAL MTRS 231	Bit Hrs 35.75
DRILLING FLUID Invert		DEN (kg/m^3) 945	VISCOSITY 75	WATER LOSS		pH	DAILY DRLG HRS 9	ROP (m/hr) 4.0	

## OPERATIONS SUMMARY - PAST 24 HOURS

Cut core#8 (1811-1838), hoist core on wireline & recover same, full recovery, make up new bbls and pump to bottom, cut core#9, work tite hole @ 1842m, continue to cut core #9

## OPERATIONS FORECAST - NEXT 24 HOURS

Cut Core# 9 and recover same, wiper trip @ TD, POOH to log.

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1811	1853	4.0	251	100	Limestone	1838	1838	291		Trip gas

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0	1804.0	1804.0	-1546						
TD	1848	-1590.0									

## COMMENTS

TD will be 1856 meters.

DM 691597  
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2080



ConocoPhillips

DAILY GEOLOGICAL REPORT  
CONOCO PHILLIPS CANADA

ConocoPhillips

WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2	
DATE 15-Feb-13	REPORT 21	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence	CELL PHONE 403-536-6939	RIG PHONE 587-794-4599	
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 21	FORMATION Hume		WEATHER CONDITIONS Light Snow -17	
06:00 STATUS: Circ btms up after wiper trip							
0600 DEPTH 1856	LAST REPORT 1853	PROGRESS 3	BIT # 1C	Bit Type NOV PR513	BIT SIZE 222	TOTAL MTRS 234	Bit Hrs 36.5
DRILLING FLUID Invert		DEN (kg/m^3) 945	VISCOSITY 75	WATER LOSS	pH	DAILY DRLG HRS 0.75	ROP (m/hr) 4.0

## OPERATIONS SUMMARY - PAST 24 HOURS

Finish core#9 (1838-1856m) and TD well, circ btms up, trip out 5 stands, rig in Schlumberger wireline, retrieve and lay down core#9, circ & RIH with Corion drill rod on wireline, pull wireline out of hole, circ & pump pill, wiper trip out of hole to 600m, slip & cut drill line, RIH to 1836m, circ & work pipe @ TD.

## OPERATIONS FORECAST - NEXT 24 HOURS

Trip out of hole, lay down BHA & core bbls, rig in wireline truck and log with Schlumberger.

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1853	1856	4.0	60	55	Limestone	1856	1856	4100	100	Wiper Trip Gas

## FORMATION / MARKER TOPS

FORMATION		PROGNOSIS		SAMPLE		FORMATION		PROGNOSIS		SAMPLE	
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0	1804.0	1804.0	-1546						
TD	1848	-1590.0	1856.0	1856.0	-1598						

## COMMENTS

TD @ 1856m on Feb 14, 2013 @ 06:35 hrs.



WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2	
DATE 16-Feb-13	REPORT 22	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence	CELL PHONE 403-536-6939	RIG PHONE 587-794-4599	
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 22	FORMATION Hume		WEATHER CONDITIONS Light Snow -19	
06:00 STATUS: Log with Schlumberger Run#2							
0600 DEPTH 1856	LAST REPORT 1856	PROGRESS 0	BIT #	Bit Type	BIT SIZE	TOTAL MTRS	Bit Hrs
DRILLING FLUID Invert		DEN (kg/m^3) 945	VISCOSITY 75	WATER LOSS	pH	DAILY DRLG HRS	ROP (m/hr)

## OPERATIONS SUMMARY - PAST 24 HOURS

Circ & work pipe @ TD, POOH, lay down BHA & core bbls, rig in & log with Schlumberger, run #1 (AIT / LithoScanner / TLD / HGNS / GR / TLD2), change out tools and log run#2 (UBI / dual OBMI / GPIT / PPC / SSCAN / PPC / GR), UBI failed after 60m, continue logging out with second run.

## OPERATIONS FORECAST - NEXT 24 HOURS

Log with Schlumberger

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1853	1856	4.0	60	55	Limestone	1856	1856	4100	100	Wiper Trip Gas

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0									
Hare Indian	1768	-1510.0									
Bluefish Member	1783	-1525.0									
Hume	1798	-1540.0	1804.0	1804.0	-1546						
TD	1848	-1590.0	1856.0	1856.0	-1598						

## COMMENTS

Current log depth @ report time on Run#2 is 1692m.



ConocoPhillips

DAILY GEOLOGICAL REPORT  
CONOCO PHILLIPS CANADA

ConocoPhillips

WELL NAME COPRC Loon Creek O-6		LOCATION / UWI 300O066510127000		CONTRACTOR Beaver Drilling Ltd.		RIG # 2	
DATE 17-Feb-13	REPORT 23	REPORTING TO Dave Oakley		WELLSITE GEOLOGIST Dave Lawrence	CELL PHONE 403-536-6939	RIG PHONE 587-794-4599	
KB (m) 257.6	GL (m) 252.4	SPUD DATE 1/26/13	DAY No. 23	FORMATION Hume		WEATHER CONDITIONS Clear -29	
		06:00 STATUS: Log with Schlumberger Run#3					
0600 DEPTH 1856	LAST REPORT 1856	PROGRESS 0	BIT #	Bit Type	BIT SIZE	TOTAL MTRS	Bit Hrs
DRILLING FLUID Invert		DEN (kg/m^3) 945	VISCOSITY 75	WATER LOSS	pH	DAILY DRLG HRS	ROP (m/hr)

## OPERATIONS SUMMARY - PAST 24 HOURS

Log run#2 (UBI / dual OBMI / GPIT / PPC / SSCAN / PPC / GR) completed, pick up Logging run #3 ADT / HNGS / PPC / CMR+ / GR and log with same.

## OPERATIONS FORECAST - NEXT 24 HOURS

Log with Schlumberger

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1853	1856	4.0	60	55	Limestone	1856	1856	4100	100	Wiper Trip Gas

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0	1679.0	1679.0	-1409						
Hare Indian	1768	-1510.0	1788.0	1788.0	-1530						
Bluefish Member	1783	-1525.0	1796.0	1796.0	-1538						
Hume	1798	-1540.0	1804.0	1804.0	-1546						
TD	1848	-1590.0	1856.0	1856.0	-1598						

## COMMENTS

Current log depth @ report time on Run#3 is 900m.



ConocoPhillips

DAILY GEOLOGICAL REPORT  
CONOCO PHILLIPS CANADA

ConocoPhillips

<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.		<b>RIG #</b> 2	
<b>DATE</b> 18-Feb-13	<b>REPORT</b> 24	<b>REPORTING TO</b> Dave Oakley		<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599	
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 24	<b>FORMATION</b> Hume		<b>WEATHER CONDITIONS</b> Light snow -24	
<b>06:00 STATUS:</b> Log with Schlumberger Run#4							
<b>0600 DEPTH</b> 1856	<b>LAST REPORT</b> 1856	<b>PROGRESS</b> 0	<b>BIT #</b>	<b>Bit Type</b>	<b>BIT SIZE</b>	<b>TOTAL MTRS</b>	<b>Bit Hrs</b>
<b>DRILLING FLUID</b> Invert	<b>DEN (kg/m<sup>3</sup>)</b> 945	<b>VISCOSITY</b> 75	<b>WATER LOSS</b>	<b>pH</b>	<b>DAILY DRLG HRS</b>	<b>ROP (m/hr)</b>	

## OPERATIONS SUMMARY - PAST 24 HOURS

Log with run #3 ADT / HNGS / PPC / CMR+ / GR, pick up logging run#4 RST-GR and log with same, just finishing second pass @ report time

## OPERATIONS FORECAST - NEXT 24 HOURS

Log with Schlumberger

## BACKGROUND TOTAL GAS (Units, 100 Units = 1%)

## GAS SHOWS (Units, 100 Units = 1%)

From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
1853	1856	4.0	60	55	Limestone	1856	1856	4100	100	Wiper Trip Gas

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0	1679.0	1679.0	-1409						
Hare Indian	1768	-1510.0	1788.0	1788.0	-1530						
Bluefish Member	1783	-1525.0	1796.0	1796.0	-1538						
Hume	1798	-1540.0	1804.0	1804.0	-1546						
TD	1848	-1590.0	1856.0	1856.0	-1598						

## COMMENTS

Current log depth @ report time on Run#4 (2nd pass) is 1620m.



ConocoPhillips

DAILY GEOLOGICAL REPORT  
CONOCO PHILLIPS CANADA

ConocoPhillips

<b>WELL NAME</b> COPRC Loon Creek O-6		<b>LOCATION / UWI</b> 300O066510127000		<b>CONTRACTOR</b> Beaver Drilling Ltd.		<b>RIG #</b> 2	
<b>DATE</b> 19-Feb-13	<b>REPORT</b> 25	<b>REPORTING TO</b> Dave Oakley		<b>WELLSITE GEOLOGIST</b> Dave Lawrence	<b>CELL PHONE</b> 403-536-6939	<b>RIG PHONE</b> 587-794-4599	
<b>KB (m)</b> 257.6	<b>GL (m)</b> 252.4	<b>SPUD DATE</b> 1/26/13	<b>DAY No.</b> 25	<b>FORMATION</b> Hume		<b>WEATHER CONDITIONS</b> Clear -28	
<b>06:00 STATUS:</b> POOH sideways							
<b>0600 DEPTH</b> 1856	<b>LAST REPORT</b> 1856	<b>PROGRESS</b> 0	<b>BIT #</b>	<b>Bit Type</b>	<b>BIT SIZE</b>	<b>TOTAL MTRS</b>	<b>Bit Hrs</b>
<b>DRILLING FLUID</b> Invert	<b>DEN (kg/m<sup>3</sup>)</b> 945	<b>VISCOSITY</b> 75	<b>WATER LOSS</b>	<b>pH</b>	<b>DAILY DRLG HRS</b>	<b>ROP (m/hr)</b>	

## OPERATIONS SUMMARY - PAST 24 HOURS

Log run#4 RST-GR, pick up run#5 USIT-CBL and log with same, rig out loggers, RIH, circ & cond mud, rig in lay down truck, POOH sideways.

## OPERATIONS FORECAST - NEXT 24 HOURS

POOH sideways, pick up and run casing & cement same.

BACKGROUND TOTAL GAS (Units, 100 Units = 1%)						GAS SHOWS (Units, 100 Units = 1%)				
From	To	ROP	Max	Avg	Gross Lith.	From	To	Max	Prev.	Lithology
						1856	1856	10000	20	Trip gas

## FORMATION / MARKER TOPS

FORMATION	PROGNOSIS		SAMPLE			FORMATION	PROGNOSIS		SAMPLE		
MARKER TOPS	TVD	SS	MD	TVD	SS	MARKER TOPS	TVD	SS	MD	TVD	SS
Quaternary	5	252	5.0	5.0	252						
Little Bear	28	229	31.0	31.0	227						
Slater River	48	210	36.0	36.0	222						
Artic Red	578	-320	570.0	570.0	-312						
Sans Sault	813	-555	787.0	787.0	-529						
Martin House	888	-630.0	882.5	882.0	-625						
Imperial	958	-700.0	962.5	962.5	-705						
Upper Canol	1648	-1390.0	1642.5	1642.5	-1385						
Lower Canol	1673	-1415.0	1679.0	1679.0	-1409						
Hare Indian	1768	-1510.0	1788.0	1788.0	-1530						
Bluefish Member	1783	-1525.0	1796.0	1796.0	-1538						
Hume	1798	-1540.0	1804.0	1804.0	-1546						
TD	1848	-1590.0	1856.0	1856.0	-1598						

## COMMENTS