



Field Report
Summary of Field Operations

Cirque Resources LP
Laguna 8-8-1CH Well
Niobrara C., Ft. Hays, Codell and Carlile Formations
DJ Basin
Laramie County, WY

Submitted to:
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CO-70317

4/21/2014



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INTRODUCTION

Weatherford Laboratories (WFT Labs) has determined the field activity of collecting core as one of the most important elements when fully characterizing a target reservoir. WFT Labs has developed best practices to ensure core samples are handled, stabilized and preserved correctly in order to complete uncompromised field and laboratory testing. The following report will summarize wellsite activities in the following tables:

- Well and Formation Summary
- Summary of Coring Operations
- Daily Field Reports

Well and Formation Summary			
WELL INFORMATION			
Exact Operator Name	Cirque Resources LP	API #	49021210330000
Exact Well Name	Laguna 8-8-1CH Well	AFE #	70356
Basin	DJ Basin	Field Designation	Wildcat
County, State	Laramie County, WY	Elevation (GL & KB)	N/A
Section, Township, Range	8,12N 65W	Coordinates	(LAT.) 41.022039 (LONG.) 104.676225
CORING PARAMETERS			
Coring Date	4/17/2014	Coring Contractor	CorPro
Core Point	8,813.00	Total Number of Cores	1
Diameter of Core	4	Length of Core Barrel	60
Liner Type	Aluminum	Retrieval Method	Conventional
RESERVOIR PARAMETERS			
Target Formation(s)	Niobrara C., Ft. Hays, Codell and Carlile Formations		
Total Number of Preservation Samples	N/A	Preservation Sample Frequency	N/A

Summary of Coring Operations

Core Run	Formation	Cored Interval Top	Cored Interval Bottom	Core Recovered Top	Core Recovered Bottom	Length Cored	Core Length Recovered	Recovery Percentage	Date & Time Start Coring	Date & Time End Coring	Date & Time Start TOH	Date & Time Core at Surface	Core Recovery Time
#	name	feet	feet	feet	feet	feet	feet	%	mm/dd/yy hh:mm:ss	mm/dd/yy hh:mm:ss	mm/dd/yy hh:mm:ss	mm/dd/yy hh:mm:ss	hh:mm:ss
1	-	8,813.50	8,875.50	8,813.50	8,861.50	62.00	48.00	77.42	04/17/14 17:34:00	04/17/14 19:55:00	04/17/14 22:45:00	04/18/14 05:15:00	06:30:00

Appendix I

Daily Field Reports



Travel Daily Field Report			
Start Date:	4/16/2014	End Date:	4/17/2014
Start Time:	0:00:00	Finish Time:	0:00:00
Submitted To:	Kevin Smith	Submitted By:	Juan Nunez
Project Information			
Operator Name:	Cirque Resources LP	API Number:	49021210330000
Well Name:	Laguna 8-8-1CH Well	County, State:	Laramie County, WY
WFT Labs Project Number:	CO-70317	Elevation (feet) GL & KB:	N/A
Daily Operations:	Weatherford Labs personnel travelled from Arvada, Colorado to Cheyenne, Wyoming. Checked in with company man out at the rig at 10:00 am. The company man informed us that they were going in for a wiper trip and should last through the end of this report period.		



Wellsite Daily Field Report			
Start Date:	4/17/2014	End Date:	4/18/2014
Start Time:	0:00:00	Finish Time:	0:00:00
Submitted To:	Kevin Smith	Submitted By:	Juan Nunez
Project Information			
Operator Name:	Cirque Resources LP	API Number:	49021210330000
Well Name:	Laguna 8-8-1CH Well	County, State:	Laramie County, WY
WFT Labs Project Number:	CO-70317	Elevation (feet) GL & KB:	N/A
Laguna 8-8-1CH Well			
Location:	Cheyenne, WY	Cored Interval:	N/A - N/A
Formation(s):	Niobrara C., Ft. Hays, Codell and Carlile Formations	Core Recovered:	N/A
Coordinates:	(LAT.) 41.022039 (LONG.) 104.676225	Cumulative Core Recovered:	N/A
Basin:	DJ Basin	Core Diameter (inches):	4.00
Daily Wellsite Operations:	WFT Labs personnel received the morning update at 8am. The company man explained that they were going in with the coring tools. We were later updated at 18:00 and were told to be onsite at 21:00. Tripping out of the hole was in progress at the end of this report period.		



Wellsite Daily Field Report

Start Date:	4/18/2014	End Date:	4/19/2014
Start Time:	0:00:00	Finish Time:	0:00:00
Submitted To:	Kevin Smith	Submitted By:	Juan Nunez

Project Information

Operator Name:	Cirque Resources LP	API Number:	49021210330000
Well Name:	Laguna 8-8-1CH Well	County, State:	Laramie County, WY
WFT Labs Project Number:	CO-70317	Elevation (feet) GL & KB:	N/A

Laguna 8-8-1CH Well

Location:	Cheyenne, WY	Cored Interval:	8,813.50	-	8,875.50
Formation(s):	Niobrara C., Ft. Hays, Codell and Carlile Formations	Core Recovered:	48.00		
Coordinates:	(LAT.) 41.022039 (LONG.) 104.676225	Cumulative Core Recovered:	48.00		
Basin:	DJ Basin	Core Diameter (inches):	4.00		

Daily Wellsite Operations: Tripping out of the hole was in progress at the beginning of this report period. Core run 1 reached the surface at 5:15 and processed into 3' sections. Core run 1 concluded the coring operations. The core arrived WFT Labs in Golden, Colorado at 12:00.

Summary of Coring Operations

Core Run	Formation	Cored Interval Top	Cored Interval Bottom	Length Cored	Core Length Recovered	Recovery Percentage	Date & Time Start Coring	Date & Time End Coring	Date & Time Start TOH	Date & Time Core at Surface	Core Recovery Time
#	name	feet	feet	feet	feet	%	mm/dd/yy hh:mm:ss	mm/dd/yy hh:mm:ss	mm/dd/yy hh:mm:ss	mm/dd/yy hh:mm:ss	hh:mm:ss
1	-	8,813.50	8,875.50	62.00	48.00	77.42	04/17/14 17:34:00	04/17/14 19:55:00	04/17/14 22:45:00	04/18/14 05:15:00	06:30:00

Appendix II

Core Logs

Coring Data

Job # 40298US

Well information	
Operator	Clrque Res
Contractor	SST
Rig	SST 62
Well Name & #	Laguna 8-8-1CH
State	Wyoming
County	Laramie
Res. Pressure	psi
TVD	ft

Core #	1
Date	4/17/2014
Well angle	1
Stat. temp.	130 °F
Drive	Top Drive
Torq off b	2400 ft-lb
OffBTM Press	1,894 psi

Core barrel	
Size	CC102
Length	60 ft
Orientated	No
IT Size	75 x 4.25 x 4.12
IT Type	Alu

Core head	
Type	DC 613
Size	8.75 x 4
S/N	1258
IADC	
TFA (sq in)	
% Worn	

Mud properties		
Type	Water Base	
WT	9.80	ppg
PV	15	cP
YP	8	
GEL	3/5/6	
% sand	0.5	%
% Solid	8	%
Viscosity	91	cP
Filtrate	.03/1.3	cm3
Losses	None	

Corehead Condition	At Run Start							
	New							
	At Run End							
Previous Footage	0 ft	Run Footage	62 ft	Total Footage	62 ft			



Background Parameters									
String Weight	lb	Torque OffBottom				Bottom Pressure		Ball Valve Information	
↑	200	40 rpm	2400 ft-lb	Flow Rate	302 gpm	Flow Rate	150 gpm		
↻	196	50 rpm	2400 ft-lb	On Bottom	1,760 psi	SPP Ref 1	712 psi		
↓	185	60 rpm	2400 ft-lb	Off Bottom	1,894 psi	SPP Ref 2	760 psi		
Overpull Connection		1	2	3	4	5	6	7	
		lb	26						

BHA	
1	Corehead
2	Core Barrel
3	XO
4	Jars
5	6.25 DC
6	4" HWDP
7	
8	
9	
10	

Starting Date : 4/17/2014		Timing							
Pickup Barrel		Start in Hole		Coring		POOH		Core Rec./LD Brl	
Start	5:00	Start	7:00	Start	17:34	Start	22:45	Start	5:15
Stop	7:00	Stop	16:00	Stop	19:55	Stop	5:15	Stop	7:00
Interval	2.00 hrs	Interval	9.00 hrs	Interval	2.35 hrs	Interval	6.50 hrs	Interval	1.75 hrs

Performance								Customer	Corpro
Depth		Cored	Rec.	Rec.	Eff.	Time	ROP	0	
In	Out	ft	ft	%	%	hrs	ft/hr		
8813.5	8875.5	62.0	48.00	77%	103%	2.4	26.4		

Coring Log & Parameters



Job # 40298US

CORE #		Well Name & #			Operator		Run Date						
1		Laguna 8-8-1CH			Cirque Res		17 April 2014						
Core barrel Size	Length	CC102	CH Type	DC 613	Mud Type	Water Base	Start Coring	17:34					
60	ft			8.75 x 4		9.80	Stop Coring	19:55					
			Serial #	1258	Weight	PPG	Interval	2.35 hrs					
Formation name		Foot Hayes		Cordell		Lithology							
ft	# Cored	Min	ft/hr	ROP LOG (metre or feet / hours)		Torque Min	Torque Max	Off Bottom	Head RPM	WOB	Flow	SPR	Lithology or Remark
8813.5		Starting depth		Graph Zoom	10.0	1	2	Graph Zoom	10.0				
8814.5	1.0	20.0	3.0			3	4	T Off Bott can't be > T On Bott!!!!		40	3	300	1845
8815.5	2.0	4.0	15.0			3	5	T Off Bott can't be > T On Bott!!!!		40	7	300	1750
8816.5	3.0	3.0	20.0			3	6	T Off Bott can't be > T On Bott!!!!		40	9	300	1750
8817.5	4.0	3.0	20.0			3	6	T Off Bott can't be > T On Bott!!!!		45	10	300	1765
8818.5	5.0	3.0	20.0			3	6	T Off Bott can't be > T On Bott!!!!		50	10	300	1756
8819.5	6.0	2.0	30.0			3	6	T Off Bott can't be > T On Bott!!!!		55	11	300	1754
8820.5	7.0	2.0	30.0			3	7	T Off Bott can't be > T On Bott!!!!		55	12	300	1755
8821.5	8.0	2.0	30.0										
8822.5	9.0	2.0	30.0										
8823.5	10.0	2.0	30.0										
8824.5	11.0	5.0	12.0			3	7	T Off Bott can't be > T On Bott!!!!		55	12	300	1770
8825.5	12.0	2.0	30.0										
8826.5	13.0	3.0	20.0										
8827.5	14.0	3.0	20.0										
8828.5	15.0	3.0	20.0										
8829.5	16.0	4.0	15.0										
8830.5	17.0	3.0	20.0			3	6	T Off Bott can't be > T On Bott!!!!		55	12	300	1798
8831.5	18.0	3.0	20.0										
8832.5	19.0	3.0	20.0										
8833.5	20.0	3.0	20.0										
8834.5	21.0	3.0	20.0										
8835.5	22.0	4.0	15.0			3	6	T Off Bott can't be > T On Bott!!!!		55	12	300	1800
8836.5	23.0	3.0	20.0										
8837.5	24.0	2.0	30.0										
8838.5	25.0	2.0	30.0										
8839.5	26.0	2.0	30.0										
8840.5	27.0	1.0	60.0			5	6	T Off Bott can't be > T On Bott!!!!		55	10	300	1790
8841.5	28.0	1.0	60.0										
8842.5	29.0	1.0	60.0										
8843.5	30.0	1.0	60.0			5	6	T Off Bott can't be > T On Bott!!!!		55	8	300	1780
8844.5	31.0	1.0	60.0										
8845.5	32.0	1.0	60.0										
8846.5	33.0	1.0	60.0										
8847.5	34.0	1.0	60.0			5	6	T Off Bott can't be > T On Bott!!!!		55	8	300	1774
8848.5	35.0	1.0	60.0										
8849.5	36.0	1.0	60.0										
8850.5	37.0	1.0	60.0										
8851.5	38.0	1.0	60.0										
8852.5	39.0	1.0	60.0			5	6	T Off Bott can't be > T On Bott!!!!		55	8	300	1767
8853.5	40.0	1.0	60.0										
8854.5	41.0	1.0	60.0										
8855.5	42.0	1.0	60.0										
8856.5	43.0	1.0	60.0										
8857.5	44.0	1.0	60.0			5	6	T Off Bott can't be > T On Bott!!!!		55	8	300	1770
8858.5	45.0	1.0	60.0										
8859.5	46.0	1.0	60.0										
8860.5	47.0	1.0	60.0										
8861.5	48.0	1.0	60.0										
8862.5	49.0	1.0	60.0										
8863.5	50.0	1.0	60.0			5	7	T Off Bott can't be > T On Bott!!!!		55	10	300	1760
8864.5	51.0	1.0	60.0										
8865.5	52.0	1.0	60.0										
8866.5	53.0	1.0	60.0										
8867.5	54.0	1.0	60.0										
8868.5	55.0	1.0	60.0										
8869.5	56.0	1.0	60.0			5	7	T Off Bott can't be > T On Bott!!!!		55	10	300	1760
8870.5	57.0	1.0	60.0										
8871.5	58.0	1.0	60.0										
8872.5	59.0	1.0	60.0										
8873.5	60.0	1.0	60.0										
8874.5	61.0	1.0	60.0			5	7	T Off Bott can't be > T On Bott!!!!		55	10	209	990
8875.5	62.0	1.0	60.0										

From	To	Cored	Hrs	ROP	Recovery
			On Btm	lpth	%
8813.5	8875.5	62.0	2.1	29.3	

POOH Reason
Barrel Full

Appendix III

Core Inventory (Tube List)

