



**5.5" Production**  
**Cement Post Job Report**

Prepared For: Mr. Mike Schweizer  
Prepared Date: 8/15/2017  
Job Date: 8/11/2017

**PDC Energy, Inc.**

**Elbert 4N**

**Weld County, CO**

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# Job Summary

Ticket Number	Ticket Date
TN# FL2157	8/11/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-44329
WELL NAME	RIG	JOB TYPE
Elbert 4N	Ensign 160	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NWSW 21 5N 65W	Laeger, Kacey	Red Benge

EMPLOYEES		
Devine, Rich	Cadena, Darius	
Laslie, Larry		
Phillips, James		

<b>WELL PROFILE</b>			
Max Treating Pressure (psi):		Bottom Hole Static Temperature (°F):	210
Bottom Hole Circulating Temperature (°F):		Well Type:	Oil

### Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	8.5	1655	17159		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

### Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	9.625	36	J-55	0	1655		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	5.5	20	P-110	0	17159		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

### CEMENT DATA

<b>Stage 1:</b>	From Depth (ft):	0	To Depth (ft):	17159
Type: <b>SingleSlurry</b>	Volume (sacks):	2525	Volume (bbls):	809.5

Cement & Additives:	Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
100% 35:65:0(POZ:G:GEL)+0.4% ASM-3+0.3% CFR+0.6% C-17+25% Silica Flour	13.5	1.80	8.77

### SUMMARY

Preflushes:	50 bbls of Weighted Spacer	Calculated Displacement (bbl):	380	Stage 1	Stage 2
	_____ bbls of _____	Actual Displacement (bbl):	380		
	_____ bbls of _____	Plug Bump (Y/N):	y	Bump Pressure (psi):	2700
Total Preflush/Spacer Volume (bbl):	50	Lost Returns (Y/N):	n	(if Y, when)	
Total Slurry Volume (bbl):	809.5				
Total Fluid Pumped	1239.5				
Returns to Surface:	Cement 120 bbls				

Job Notes (fluids pumped / procedures / tools / etc.):  
 Top of wet shoe sub at 17131 feet

**Thank You For Using**  
**O - TEX Pumping**

Customer Representative Signature: \_\_\_\_\_



### CEMENTING JOB LOG

Project Number	Job Date
FL2157	8/11/2017
State	County
CO	Weld
Customer Representative	Phone
Red Benge	970-203-4850
API Number	
05-123-44329	

O-Tex Location	Customer
Brighton, Colorado 303-857-7948	PDC Energy, Inc.
Lease Name	O-Tex Field Supervisor
Elbert 4N	Laeger, Kacey
Well No.	Man Hours
	35

USE THIS FORM TO NOTE ANY ISSUES ENCOUNTERED WITH THE PERFORMANCE OF THIS JOB.  
THIS MAY INCLUDE TIME AT THE SHOP, ON THE ROAD OR DELAYS WITH DRILLING CONTRACTOR.

DATE	TIME	VOLUME	RATE	PRESS		JOB PROCEDURES
				CSG	Tbg.	
8/11/2017	6:45					Arrive on location
8/11/2017	6:50					Tailgate meeting
8/11/2017	7:00					Rig up
8/11/2017	8:20					Safety meeting
8/11/2017	8:40					Rig up cement head
8/11/2017	9:07	2 bbl	1.00	300		Fill lines
8/11/2017	9:09					Pressure test
8/11/2017	9:10					Bleed off pressure Cement head had a leak fix leak
8/11/2017	10:05			6000		Re Pressure test
8/11/2017	10:10	50 bbl	4.00	500		Pump Weighted spacer
8/11/2017	10:23	809.5 bbl	7.00	820		Mix cement
8/11/2017	12:39					Stop Drop Plug
8/11/2017	12:40		5.50	2200		Displace
8/11/2017	13:48	380 bbl	4.00	2700		Bump Plug
8/11/2017	13:53	1 bbl	1.50	4341		Pressure up wet shoe sub
8/11/2017	13:54	5 bbl	4.00	1750		Pump 5bbls at 4bblsm
8/11/2017	14:03	2 bbl				Check floats 2bbls back
8/11/2017	14:10					Rig out
8/11/2017	14:50					Job complete
8/11/2017	15:00					Leave location

#### JOB CALCULATIONS

Pressure test pump 50 weighted spacer mix 809.5bbls at 13.5# stop wash out lines drop plug displace 380 to bump  
Pressure up wet shoe sub pump 5bbls @ 4bblsm  
Check floats rig out

#### CASING DATA

9 5/8 36# 0-1655  
5.5 20# 0-17159  
8.5 oh from 1655- 17159

#### ANNULAR DATA

**PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW**

O-Tex Cement head seal broke Bleed off Pressure replaced retested held and started job NPT1hr