



5.5" Production

## Cement Post Job Report

Prepared For: Mr. Mike Schweizer

Prepared Date: 12/22/2017

Job Date: 12/21/2017

**PDC Energy, Inc.**

**Boulter Farms 27G-332**

**Weld County, CO**

Prepared By: Adam DeSaules

Phone: (432) 215-6693

Email: [adam.desaules@otexpumping.com](mailto:adam.desaules@otexpumping.com)



# Job Summary

Ticket Number	Ticket Date
TN# FL2804	12/21/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-43528
WELL NAME	RIG	JOB TYPE
Boulter Farms 27G-332	Ensign 152	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
NWSW 27-5N-65W	Davila, Isreal	Dave Freeburg

EMPLOYEES		
Watkins, Robert	Brophy, Michael	
Roark, Kenneth		
Kevin Lindsay		

<b>WELL PROFILE</b>			
Max Treating Pressure (psi):	4500	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	1650	14333	1650	7000
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	1650	0	1650
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	14328	0	7000
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):	2500	To Depth (ft):	14333
Type: <b>SingleSlurry</b>	Volume (sacks):	1580	Volume (bbls):	507

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:	20 bbls of Fresh Water	Calculated Displacement (bbl):	Stage 1	Stage 2
	40 bbls of Mudflush	Actual Displacement (bbl):	317.5	
	50 bbls of Weighted Spacer		317	
Total Preflush/Spacer Volume (bbl):	110	Plug Bump (Y/N):	Y	Bump Pressure (psi):
Total Slurry Volume (bbl):	492	Lost Returns (Y/N):	N	(if Y, when)
Total Fluid Pumped	919			
Returns to Surface:				

Job Notes (fluids pumped / procedures / tools / etc.): Job performed according to customers request, Had issues with batch mixer, job was delayed due to valves being frozen. Cement and displacement went well.

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

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



### CEMENTING JOB LOG

Project Number	Job Date
FL2804	12/21/2017
State	County
CO	Weld
Customer Representative	Phone
Dave Freeburg	435-901-9247
Man Hours	API Number
125	05-123-43528

O-Tex Location	Customer
Brighton, Colorado 303-857-7948	PDC Energy, Inc.
Lease Name	O-Tex Field Supervisor
Boulder Farms 27G-332	Davila, Isreal
Job Type	Man Hours
Production	125

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.	
12/20/2017	18:00					Arrive on location
	18:05					Tailgate meeting
	18:15					Spot Equipment
	18:30					Rig in
12/21/2017	11:15					JSA/ Safety meeting with rig crew/ consultants
	13:47	2 bbl	2.00	5200		Fill lines/Pressure test
	13:52	10 bbl	4.00	900		Fresh water
	13:56	40 bbl	4.00	1000		Pump mudflush
	14:06	60 bbl	2.00	1000		pump weighted spacer/ followed by 10bbbls fresh
	14:33	507 bbl	6.50	600		Pump cement @ 13.5, 1.8 yield
	16:10					Shut down/ wash lines/ load plug
	16:35	317 bbl	7.00	2200		Displace plug, caught pressure at 70 bbbls away
	17:32				2900	Bump plug
	17:38	2 bbl	2.00	4100		Pressure up to burst wet shoe
	17:39	5 bbl	4.00	1800		Pump 5 bbbls fresh @ 4 bbbls/minute
17:41					Shut down/ check floats, floats held, 1.5 bbbls back	
17:50					Rig out	
19:00					Depart location	

#### JOB CALCULATIONS

Mix and pump 1580 sks cement @ 13.5 for 12113 ft coverage in 8.5" open hole  
Displace 317.5 bbbls to displace plug

#### CASING DATA

9.625" 36# Surface Casing to 1650 ft  
5.5" 20# Production casing to 14328 ft

#### ANNULAR DATA

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

Had issues with batch mixer, rig ran steam lines to thaw valves, and pump, were delayed an hour