



**5.5" Production**

**Cement Post Job Report**

Prepared For: Mr. Mike Schweizer  
Prepared Date: 9/28/2017  
Job Date: 9/27/2017

**PDC Energy, Inc.**

**McGlothlin Farms 4W-404**

**Weld County, CO**

Prepared By: Paul Novotny  
Phone: (720) 441-9745  
Email: paul.novotny@otexpumping.com



# Job Summary

Ticket Number		Ticket Date	
TN#	FL2345	9/27/2017	
COUNTY	COMPANY	API Number	
Weld	PDC Energy, Inc.	05-123-44004	
WELL NAME	RIG	JOB TYPE	
McGlothlin Farms 4W-404	Ensign 161	Production	
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP	
SESE 4 - 5N - 64W	Douglass, Brian	John Falton	
EMPLOYEES			
Malgarejo, Eduardo		Roark, Kenneth	
Payne, James			
Collin, Justin			
WELL PROFILE			
Max Treating Pressure (psi):	5000	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	1664	14594	1667	6809
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	1646		
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	14594		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

## CEMENT DATA

Stage 1:	From Depth (ft):	0	To Depth (ft):	14594
Type: SingleSlurry	Volume (sacks):	2150	Volume (bbls):	689

Cement & Additives:	Density (ppg)	Yield (ft³/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
	30 bbls of	SAPP	Actual Displacement (bbl):	323	
	50 bbls of	Weighted Spacer		323	
Total Preflush/Spacer Volume (bbl):	100		Plug Bump (Y/N):	y	Bump Pressure (psi): 2800
Total Slurry Volume (bbl):	689		Lost Returns (Y/N):	n	(if Y, when)
Total Fluid Pumped	1112				
Returns to Surface:	Cement	85 bbls			

Job Notes (fluids pumped / procedures / tools / etc.): fill lines. Pressure test to 5000 psi. 10 bbls of fresh h2o. 30 bbls of sapp. 10 bbls of h2o with red dye. 50 bbls of weighted spacer at 12.0 ppg. 689 bbls of cement @ 13.5 PPG. Shut down wash pump and lines. Drop plug. Displaced 323 bbls of treated h2o. at 27 bbls away of displacement company rep asked us to stop pumping to open up flow line. bumped plug at 2800 psi. held pressure for 5 mins. pressured up to 4400 psi to open up WSS. displaced 5 more bbls of h2o. check float. float held and got 3

Thank You For Using  
O - TEX Pumping

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

<div><div><div>CEMENTING JOB LOG</div></div></div>					Project Number	Job Date
					FL2345	9/26/2017
O-Tex Location		Customer			State	County
Brighton, Colorado 303-857-7948		PDC Energy, Inc.			CO	Weld
Lease Name	Well No.	O-Tex Field Supervisor			Customer Representative	Phone
McGlothlin Farms 4W-404		Douglass, Brian			John Falton	970-580-5564
Job Type		Man Hours			API Number	
Production		107.5			05-123-44004	
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.	
9/26/2017	15:00					Leave yard
9/26/2017	16:00					Arrive on location
9/26/2017	16:10					Tail gate meeting with crew
9/26/2017	17:00					Set spill containment/ spot scm units and batch mixer
9/26/2017	17:05					rig in/ test water
9/27/2017	6:00					mix weighted spacer on batch mixer
9/27/2017	8:15					safety meeting with otex crew and rig crew
9/27/2017	9:20	2	bbl	3.00		fill lines
9/27/2017	9:25				5000	pressure test lines
9/27/2017	9:28	10	bbl	8.00	900	pump preflush (water)
9/27/2017	9:30	30	bbl	8.00	1250	pump preflush (300 lbs sapp)
9/27/2017	9:34	10	bbl	8.00	1250	pump fresh water spacer (red dye)
9/27/2017	9:36	50	bbl	8.00	1200	pump weighted spacer in scm unit and down hole
9/27/2017	9:43	689	bbl	8.00	1400	mix and pump single slurry cement @ 13.5 PPG
9/27/2017	11:12					shut down/ wash pump/ clean lines
9/27/2017	11:14					drop plug
9/27/2017	11:23	323	bbl	8.00	2000	displace with treated fresh water
9/27/2017	12:00				2200	slow pump rate to bump plug
9/27/2017	12:16				2800	bump plug
9/27/2017	12:17				2800	hold pressure for 5 mins
9/27/2017	12:22	2	bbl	2.00	4400	pressure up well to open up WSS
9/27/2017	12:24	5	bbl	4.00	2900	displace with treated fresh water
9/27/2017	12:26					check float got 3 bbls back
9/27/2017	12:30					rig out
9/27/2017	13:15					AAR discuss leaving location
9/27/2017	13:30					Leave location
JOB CALCULATIONS						
cement coverage 0- 14,594						
TVD @ 6809/ WSS 14,561 shoe @ 14,594 TD @ 14,600						
85 bbls of cement back to surface						
total water needed for job 910 bbls						
CASING DATA						
9 5/8 36# ann .0479 0 - 1664'						
5.5 20# .0222 0 - 14,594						
ANNULAR DATA						
O.H 8.5 1664- 14594' ann .04.8						
15% excess single slurry for only in O.H						
PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW						