



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		
Melgarejo, 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	323	Stage 2	
	30 bbls of SAPP	Actual Displacement (bbl):		323		
	50 bbls of Weighted Spacer	Plug Bump (Y/N):	y	Bump Pressure (psi):	2800	
Total Preflush/Spacer Volume (bbl):	100	Lost Returns (Y/N):	n	(if Y, when)		
Total Slurry Volume (bbl):	689					
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

Customer Representative Signature: _____ **Thank You For Using**
O - TEX Pumping



CEMENTING JOB LOG

Project Number	Job Date
FL2345	9/26/2017
State	County
CO	Weld
Customer Representative	Phone
John Falton	970-580-5564
API Number	
05-123-44004	

O-Tex Location	Customer
Brighton, Colorado 303-857-7948	PDC Energy, Inc.
Lease Name	O-Tex Field Supervisor
Well No.	Douglass, Brian
Job Type	Man Hours
Production	107.5

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	3.00			fill lines
9/27/2017	9:25				5000	pressure test lines
9/27/2017	9:28	10	8.00		900	pump preflush (water)
9/27/2017	9:30	30	8.00		1250	pump preflush (300 lbs sapp)
9/27/2017	9:34	10	8.00		1250	pump fresh water spacer (red dye)
9/27/2017	9:36	50	8.00		1200	pump weighted spacer in scm unit and down hole
9/27/2017	9:43	689	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	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	2.00		4400	pressure up well to open up WSS
9/27/2017	12:24	5	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