



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

Prepared For: Mr. Mike Schweizer  
Prepared Date: 10/27/2017  
Job Date: 10/26/2017

**PDC Energy**  
**McGlothlin Farms 4X-314**  
**Weld County, CO**

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# Job Summary

Ticket Number		Ticket Date	
TN#	FL2493	10/26/2017	

COUNTY	COMPANY	API Number
Weld	PDC Energy INC	05-123-44007
WELL NAME	RIG	JOB TYPE
McGlothlin Farms 4X-314	Ensign 161	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SESE 4 - 5N - 64W	Douglass, Brian	Brady Sharp

EMPLOYEES		
Watkins, Robert	Roark, Kenneth	
Melgarejo, Eduardo		
Lindsay, Kevin		

<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	1662	14363		
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	1662		
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	14326		
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):	14363
Type: <b>SingleSlurry</b>	Volume (sacks):	2130	Volume (bbls):	682

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):	318	Stage 1	Stage 2
	20 bbls of Fresh Water	Actual Displacement (bbl):	318		
	80 bbls of SAPP				
Total Preflush/Spacer Volume (bbl):	150	Plug Bump (Y/N):	y	Bump Pressure (psi):	2700
Total Slurry Volume (bbl):	682	Lost Returns (Y/N):	n	(if Y, when)	
Total Fluid Pumped	1150				
Returns to Surface:	Cement	30	bbls		

Job Notes (fluids pumped / procedures / tools / etc.): fill lines. Pressure test to 5000 psi. 10 bbls of h2o. 80 bbls of sapp. 10 bbls of h2o. 50 bbls of weighted spacer @ 12.0PPG. 682 bbls of single slurry cement @ 13.5 PPG (2130 sx). Shut down wash lines and pump. Drop plug. Displace 318 bbls of treated water. last 20 to 4-5 bpm. bump plug 500 psi over. hold pressure for 5 mins. pressure up to open WSS. displace 5 bbls of h2o. check float. rig out

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

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



# CEMENTING JOB LOG

Project Number	Job Date
FL2493	10/26/2017
State	County
CO	Weld
Customer Representative	Phone
Brady Sharp	970-396-9376
API Number	
05-123-44007	

O-Tex Location	Customer
Brighton, Colorado 303-857-7948	PDC Energy INC
Lease Name	O-Tex Field Supervisor
Well No.	Douglass, Brian
McGlothlin Farms 4X-314	
Job Type	Man Hours
Production	52.5

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.	
10/26/2017	7:30					arrive on location
	7:35					tailgate meetin
	7:40					set containment
	7:50					spot trucks
	8:00					rig in
	11:30					safety meeting
	12:39	2 bbl	4.00		100	fill lines
	12:42				5000	pressure test lines
	12:44	10 bbl	5.00		800	run preflush (fresh h20)
	12:46	80 bbl	5.00		1000	run preflush (sapp)
	13:03	10 bbl	5.00		1000	run preflush
	13:30	50 bbl	6.00		800	weighted spacer @ 12.0 PPG
	13:45	682 bbl	6.00		500	mix and pump cement @ 13.5 PPG (2130 sx)
	15:43					shutdown/ wash lines and pump
	15:50					drop plug
	15:59	318 bbl	6.50		2200	displace fluid with treated water
	16:45		4.00			slow rate to bump plug (last 20 bbls)
	16:52				2700	bump plug
	16:58	1.25 bbl	2.00		4200	open WSS
	17:00	5 bbl	4.00		1900	displace with fresh h20
	17:03					check float/ float held/ 2 bbls back
	17:10					rig out
	18:00					leave location

### JOB CALCULATIONS

cement coverage: 0-14363'  
TVD: 6750'  
WSS: 14326' TD: 14363  
total water needed for job: 950 bbls  
30 bbls of cement to surface

### CASING DATA

9.625 24# .0479  
5.5 20# .0222

### ANNULAR DATA

8.5 O.H .0408  
15 % excess single slurry in O.H only

### PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW

had to use backup pump. First pump truck recirc quit working when we were almost done with preflush. Job went good otherwise.