



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	
Malgarejo, Eduardo			
Lindsay, Kevin			
WELL PROFILE			
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

Stage 1:	From Depth (ft):	0	To Depth (ft):	14363
Type: SingleSlurry	Volume (sacks):	2130	Volume (bbls):	682

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:	50 bbls of	Weighted Spacer	Calculated Displacement (bbl):	Stage 1	Stage 2
	20 bbls of	Fresh Water	Actual Displacement (bbl):	318	
	80 bbls of	SAPP		318	
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 h20. 80 bbls of sapp. 10 bbls of h20. 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 h20. check float. rig out

Thank You For Using
O - TEX Pumping

Customer Representative Signature: _____

<div>O-Tex Pumping, LLC</div>						CEMENTING JOB LOG								Project Number FL2493		Job Date 10/26/2017	
O-Tex Location Brighton, Colorado 303-857-7948						Customer PDC Energy INC						State CO		County Weld			
Lease Name McGlothlin Farms 4X-314			Well No.			O-Tex Field Supervisor Douglass, Brian						Customer Representative Brady Sharp			Phone 970-396-9376		
Job Type Production								Man Hours 52.5				API Number 05-123-44007					
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 h2o)							
		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 h2o							
		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.																	