



5.5" Production
Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 9/11/2017
Job Date: 9/6/2017

PDC Energy, Inc.
McGlothlin Farms 4X-234
Weld County, CO

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Job Summary

Ticket Number		Ticket Date
TN#	FL2276	9/6/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-44011
WELL NAME	RIG	JOB TYPE
McGlothlin Farms 4X-234	Ensign 161	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SESE 4 - 5N - 64W	Cheal, Sam	Brady Sharp

EMPLOYEES		
Devine, Rich	Chapman, Donald	
Collins, Justin		
Roark, Kenneth		

WELL PROFILE			
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 1/2	1658	14315	1658	668
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 5/8	36	J-55	0	1658	0	1658
Production	5 1/2	20	P-110	0	14310	0	14310

CEMENT DATA

Stage 1:	From Depth (ft):	0	To Depth (ft):	14312
Type: SingleSlurry	Volume (sacks):	2125	Volume (bbls):	681.2

Cement & Additives:	Density (ppg)	Yield (ft ³ /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:	30 bbls of SAPP	Calculated Displacement (bbl):	317
	10 bbls of Dye	Actual Displacement (bbl):	317
	50 bbls of Weighted Spacer		
Total Preflush/Spacer Volume (bbl):	90	Plug Bump (Y/N):	Yes
Total Slurry Volume (bbl):	681.2	Lost Returns (Y/N):	No (if Y, when)
Total Fluid Pumped:	1088.2	Bump Pressure (psi):	2690
Returns to Surface:	Cement 25 bbls		

Job Notes (fluids pumped / procedures / tools / etc.):

Cement production casing - Mixed 50bbls of Weighted Spacer with batch mixer 45min before pressure test. [Weighted spacer (41.2bbls fresh water, 9,942lbs barite, 421lbs C-65, 50gal plexaid 803)], Mixed / pumped 815.8bbls Single Slurry Cement @13.5ppg, Displaced with treated fresh water to bump, Pressured up well to open WSS, Displaced another 5bbls. Job pumped through O-Tex 5 1/2" cement head. Returns pumped through rig choke line to minimize cement channeling. TVD @ **6,680ft** / WSS @ **14,279ft** / Shoe @ **14,310ft** / TD @ **14,315ft**. Job performed as per promgam / customer request.

Thank You For Using
O - TEX Pumping

Customer Representative Signature: _____



CEMENTING JOB LOG

Project Number	Job Date
FL2276	9/6/2017
State	County
CO	Weld
Customer Representative	Phone
Brady Sharp	970-396-9376
API Number	
05-123-44011	

O-Tex Location	Customer
Brighton, Colorado 303-857-7948	PDC Energy, Inc.
Lease Name	Well No.
McGlothlin Farms 4X-234	
O-Tex Field Supervisor	Customer Representative
Cheal, Sam	Brady Sharp
Job Type	Man Hours
Production	65

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.	
9/6/2017	10:00					Leave Yard
	12:05					Arrive at location (requested @1200)
	12:10					Tailgate meeting (talk about spotting trucks) / sign in
	12:15					Set spill containment / Spot SCM pump units & batch mix unit
	14:00					Rig in / Test cement mix water
	17:40					Mix weighted spacer with batch mixer
	18:05					Safety meeting with O-Tex crew / rig crew / third party crew
	18:32	1 bbl	1.50		356	Fill line
	18:39				5400	Pressure test iron
	18:38	10 bbl	5.50		430	Pump pre-flush (fresh water)
	18:42	30 bbl	5.30		449	Pump pre-flush (300lbs SAPP)
	18:05	10 bbl	5.40		450	Pump fresh water spacer (Red Dye)
	18:49	50 bbl	5.50		627	Pump weighted spacer into SCM unit, then down hole
	19:00	681.2 bbl	8.00		675	Mix / pump Single Slurry cement
	20:33				0	Shutdown / wash pump unit / clear line
	20:49				0	Drop plug
	20:50	317 bbl	8.00		22:07	Displace with treated fresh water
	21:51		4.00		1760	Slow pump rate to bump plug
	21:39		4.00		2550	Bump plug
	21:40				2580	Hold pressure for 5 min.
	21:44	1 bbl	1.50		3980	Pressure up well to open WSS
	21:49	5 bbl	4.00		1749	Displace with treated fresh water
	21:49				0	Check float (1.5bbbls back)
	21:55					Rig out
	22:55					AAR / discuss leaving location
	23:00					Leave location

JOB CALCULATIONS

Cement coverage 0 - 14,310ft
TVD @ 6,680ft / WSS @ 14,279ft / Shoe @ 14,310ft / TD @ 14,315ft
25bbbls cement back to surface
Total fresh water needed for job 885bbbls

CASING DATA

Surface casing 9 5/8" 36# 0 - 1,658ft. (ann. 0.0479)
Production casing 5 1/2" 20# 0 - 14,310ft (cap. 0.0222)

ANNULAR DATA

OH 8 1/2" 1,658 - 14,315ft. (ann. 0.0408)
15% excess for Single Slurry cement (only in open hole)

PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW