



5.5" Production Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 1/17/2018
Job Date: 1/17/2018

PDC Energy, Inc.
Bunting 26P-232
Weld County, CO

Prepared By: Paul Novotny
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Job Summary

Ticket Number	Ticket Date
TN# FL2907	1/17/2018

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-44089
WELL NAME	RIG	JOB TYPE
Bunting 26P-232	Ensign 161	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SW SE Sec26:T5N:R65W	Cheal, Sam	John Falton

EMPLOYEES
Payne, James
Melgarejo, Eduardo
Collin, Justin
Roark, Kenneth

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 1/2	1642	15101	1642	6900

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	1642	0	1642
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	5 1/2	20	P-110	0	15090	0	6900

CEMENT DATA

Stage 1:
 From Depth (ft): 2500 To Depth (ft): 15090
 Type: **SingleSlurry**
 Volume (sacks): 1602 Volume (bbls): 528.9

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:	10 bbls of Fresh Water	Calculated Displacement (bbl):	334.3
	80 bbls of Weighted Spacer	Actual Displacement (bbl):	336
	10 bbls of Fresh Water		
Total Preflush/Spacer Volume (bbl):	100	Plug Bump (Y/N):	Yes Bump Pressure (psi): 2780
Total Slurry Volume (bbl):	513.6	Lost Returns (Y/N):	No (if Y, when)
Total Fluid Pumped	949.6		
Returns to Surface:	Mud		

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

Cement production casing - Pumped 10bbls of fresh water, Pumped 80bbls weighted spacer @ 13ppg, Pumped 10bbls fresh water spacer, Mixed / pumped 528.9bbls 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. Estimated cement coverage **2,500-15,090ft**. TVD @ **6,900ft** / WSS @ **15,060ft** / Shoe @ **15,090ft** / TD @ **15,101ft**. Pumped job as per program / customers request. Detailed discription of events in Job Log.

Customer Representative Signature: _____

Thank You For Using
O - TEX Pumping

<div>C&J ENERGY SERVICES O-TEX CEMENTING</div>						CEMENTING JOB LOG				Project Number FL2907		Job Date 1/17/2018	
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		
Bunting 26P-232				Cheal, Sam				John Falton			719-431-0208		
Job Type						Man Hours			API Number				
Production						65			05-123-44089				
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.					
1/16/2018		18:03								Leave Yard			
		19:01								Arrive on location			
		19:15								Tailgate meeting (talk about spotting trucks) / sign in			
		19:25								Set spill containment / Spot SCM pump units			
		19:30								Rig in / Test cement mix water			
		23:54								Wait for rig to circulate 2x bottoms up			
1/17/2018		2:45								Safety meeting with O-Tex crew / rig crew / third party crew			
		3:18		1 bbl		2.00				430 Fill line			
		3:20								5000 Pressure test iron			
		3:25		10 bbl		6.00				500 Pump pre-flush (fresh water)			
		3:28		80 bbl		6.00				510 Pump weighted spacer			
		3:40		10 bbl		6.00				500 Pump fresh water spacer			
		3:43		528.9 bbl		6.00				1350 Mix / pump Single Slurry cement			
		5:10								-9 Shutdown / wash pump unit / clear line			
		5:20								0 Drop plug			
		5:21		334.3 bbl		8.00				2100 Displace with treated fresh water			
		6:00				5.00				2210 Slow pump rate to bump plug			
		6:12				5.00				2780 Bump plug			
		6:13								2790 Hold pressure for 1 min.			
		6:14		1 bbl		2.00				4140 Pressure up well to open WSS			
		6:17		5 bbl		4.00				1780 Displace with treated fresh water			
		6:20								0 Check float (2bbbs back)			
		7:40								Rig out			
		8:40								AAR / discuss leaving location			
		9:00								Leave location			
JOB CALCULATIONS													
Cement coverage 2,500-15,090ft													
TVD @ 6,900ft / WSS @ 15,060ft / Shoe @ 15,090ft / TD @ 15,101ft													
CASING DATA													
Surface casing 9 5/8" 36# 0 - 1,642ft. (ann. 0.0479)													
Production casing 5 1/2" 20# 0 - 15,090ft. (cap. 0.0222)													
ANNULAR DATA													
OH 8 1/2" 1,642-15,101ft. (ann. 0.0408)													
0% excess for Single Slurry cement (only in open hole)													
PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW													