



**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**

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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	Roark, Kenneth	
Melgarejo, Eduardo		
Collin, Justin		

<b>WELL PROFILE</b>			
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
Production	5 1/2	20	P-110	0	15090	0	6900

### CEMENT DATA

<b>Stage 1:</b>	From Depth (ft):	2500	To Depth (ft):	15090
Type: <b>SingleSlurry</b>	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.

**Thank You For Using**

**O - TEX Pumping**

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



# CEMENTING JOB LOG

Project Number	Job Date
FL2907	1/17/2018
State	County
CO	Weld
Customer Representative	Phone
John Falton	719-431-0208
API Number	
05-123-44089	

O-Tex Location	Customer
Brighton, Colorado 303-857-7948	PDC Energy, Inc.
Lease Name	O-Tex Field Supervisor
Bunting 26P-232	Cheal, Sam
Well No.	Man Hours
	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.	
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 (2bbbls 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**