



5.5" Production

Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 9/22/2017
Job Date: 9/21/2017

PDC Energy, Inc.

Snowmass 4N

Weld County, CO

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Job Summary

Ticket Number		Ticket Date	
TN#	FL2335	9/21/2017	

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05 - 123 - 48889
WELL NAME	RIG	JOB TYPE
Snowmass 4N	Ensign 152	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
Sec 5 - 5 N - 64 W	Cheal, Sam	Vaughn Staples

EMPLOYEES		
Payne, James	Lindsay, Kevin	
Melgarejo, Eduardo		
Collin, Justin		

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	1667	15107	1667	6729

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	1667	0	1667
Production	5 1/2	20	P-110	0	15104	0	6729

CEMENT DATA

Stage 1:	From Depth (ft):	0	To Depth (ft):	15104
Type: SingleSlurry	Volume (sacks):	2225	Volume (bbls):	713.2

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:	30 bbls of SAPP	Calculated Displacement (bbl):	334.6
	10 bbls of Dye	Actual Displacement (bbl):	336
	50 bbls of Weighted Spacer		
Total Preflush/Spacer Volume (bbl):	90	Plug Bump (Y/N):	Yes
Total Slurry Volume (bbl):	713.2	Lost Returns (Y/N):	No (if Y, when)
Total Fluid Pumped	1139.2	Bump Pressure (psi):	2680
Returns to Surface:	Cement		
	5 bbls		

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

Cement production casing - Pumped 30bbls of pre-flush (SAPP), 10bbls of red dye, 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 713.2bbls 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 @ 6,729ft / WSS @ 15,074ft / Shoe @ 15,104ft / TD @ 15,107ft. Job performed as per promgram / customer request.

Thank You For Using

O - TEX Pumping

Customer Representative Signature:

[illegible]