



5.5" Production

Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 9/28/2017
Job Date: 9/27/2017

PDC Energy, Inc.

Snowmass 3N

Weld County, CO

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Job Summary

Ticket Number	Ticket Date
TN# FL2364	9/27/2017

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05 - 123 - 48888
WELL NAME	RIG	JOB TYPE
Snowmass 3N	Ensign 152	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
Sec 5 - 5 N - 64 W	Cheal, Sam	Vaughn Staples

EMPLOYEES		
Devine, Rich	Peterson, Roger	
Peterson, Ryan		
Cadena, Darius		

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	1669	15144	1669	6671

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	1669	0	1669
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	15136	0	6671

CEMENT DATA

Stage 1:

Type: **Scavenger**

From Depth (ft):

0

To Depth (ft):

0

Volume (sacks):

125

Volume (bbls):

49.6

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	12.5	2.23	12.01

Stage 2: Type: SingleSlurry	From Depth (ft):	0	To Depth (ft):	15136	
	Volume (sacks):	2225	Volume (bbls):	713.2	
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):	335.2
	10 bbls of Dye	Actual Displacement (bbl):	337
	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	1140.2	Bump Pressure (psi):	2478
Returns to Surface:	Cement		
	25 bbls		

Job Notes (fluids pumped / procedures / tools / etc.): **Cement production casing - Pumped 30bbls of pre-flush (SAPP), 10bbls of red dye, Mixed / Pumped 49.6bbls of Scavenger cement, 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 @ 6,671ft / WSS @ 15,103ft / Shoe @ 15,136ft / TD @ 15,144ft. Job performed as per customers request.**

Thank You For Using

O - TEX Pumping

Customer Representative Signature: _____

[illegible]