



5.5" Production

Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 9/15/2017
Job Date: 9/15/2017

PDC Energy, Inc.

Snowmass 5N

Weld County, CO

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COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05 - 123 - 44886
WELL NAME	RIG	JOB TYPE
Snowmass 5N	Ensign 152	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
Sec 5 - 5 N - 64 W	Laeger, Kacey	Vaughn Staples

EMPLOYEES
McFarland, James
Roark, Kenneth
Chapman Goodman, Donald
Seniours, David

WELL PROFILE			
Max Treating Pressure (psi):		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)
	8.5	1654	15255		
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	9.625	36	J-55	0	1654		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	5.5	20	P-110	0	15253		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

CEMENT DATA

Stage 1:	From Depth (ft):	0	To Depth (ft):	15253
Type: SingleSlurry	Volume (sacks):	2240	Volume (bbls):	718

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

	Stage 1	Stage 2
Preflushes:		
20 bbls of Fresh Water	Calculated Displacement (bbl):	338
30 bbls of SAPP	Actual Displacement (bbl):	338
50 bbls of Weighted Spacer		
Total Preflush/Spacer Volume (bbl):	Plug Bump (Y/N):	y
Total Slurry Volume (bbl):	Lost Returns (Y/N):	n (if Y, when)
Total Fluid Pumped	Bump Pressure (psi):	2540
Returns to Surface:		
Cement	25	bbls

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

Top of wet shoe sub @ 15220 feet

Thank You For Using
O - TEX Pumping

Customer Representative Signature: _____

[illegible]