



5.5" OBM Production
Cement Post Job Report

Prepared For: Mr. Mike Schweizer
Prepared Date: 4/2/2018
Job Date: 4/1/2018

PDC Energy, Inc.

Sandin 24V-341

Weld County, CO

Prepared By: Adam DeSaules
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Job Summary

Ticket Number	Ticket Date
TN# FL3387	4/1/2018

COUNTY	COMPANY	API Number
Weld	PDC Energy, Inc.	05-123-44662
WELL NAME	RIG	JOB TYPE
Sandin 24V-341	Ensign 158	OBM Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
SWNE 24-5N-65W	Davila, Isreal	Shane Paris
Coral-Flores, Francisco	Cicalla, David	
Kopp, Jeff		Hagemeyer, Tony
St. John, Gary		

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)
	8.5	1675	17370	1675	7000
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	1675	0	1675
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	17368	0	7000
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): To Depth (ft):
 Type: **Single Slurry**
 Volume (sacks): Volume (bbls):

Cement & Additives:	Density (ppg)	Yield (ft ³ /sk)	Water Req.
100% 35:65:0(POZ:G:GEL)+25% Silica Flour+0.4% ASM-3+0.3% CFR+0.6% C-17	13.5	1.80	8.77

SUMMARY

	Stage 1	Stage 2
Preflushes: <u>100</u> bbls of <u>Weighted Spacer</u>	Calculated Displacement (bbl): <u>384.8</u>	
<u>10</u> bbls of <u>Fresh Water</u>	Actual Displacement (bbl): <u>384</u>	
<u> </u> bbls of <u> </u>		
Total Preflush/Spacer Volume (bbl): <u>110</u>	Plug Bump (Y/N): <u>Y</u>	Bump Pressure (psi): <u>2200</u>
Total Slurry Volume (bbl): <u>609</u>	Lost Returns (Y/N): <u>N</u> (if Y, when <u> </u>)	
Total Fluid Pumped: <u>1103</u>		
Returns to Surface: <u>Spacer</u> <u>20</u> bbls		

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

Customer Representative Signature: **Thank You For Using O-TEX Cementing**

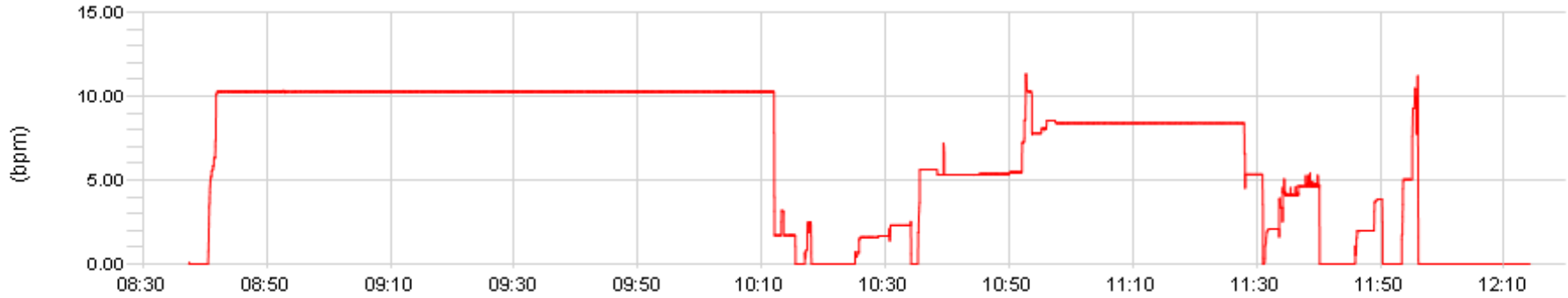


Client PDC Energy
Ticket No. 3387
Location SWNE 24-5N-65W
Comments See job log

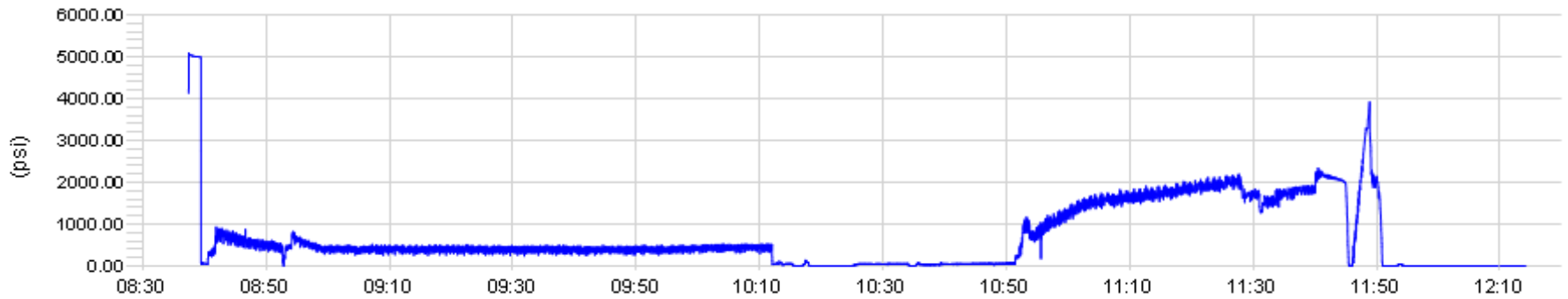
Client Rep Shane Paris
Well Name Sandin 24V-341
Job Type Production Casing

Supervisor Izzy Davila
Unit No. 445052
Service District Brighton
Job Date 03/31/2018

Unit 445052 Rate Total



Unit 445052 Pump Pressure



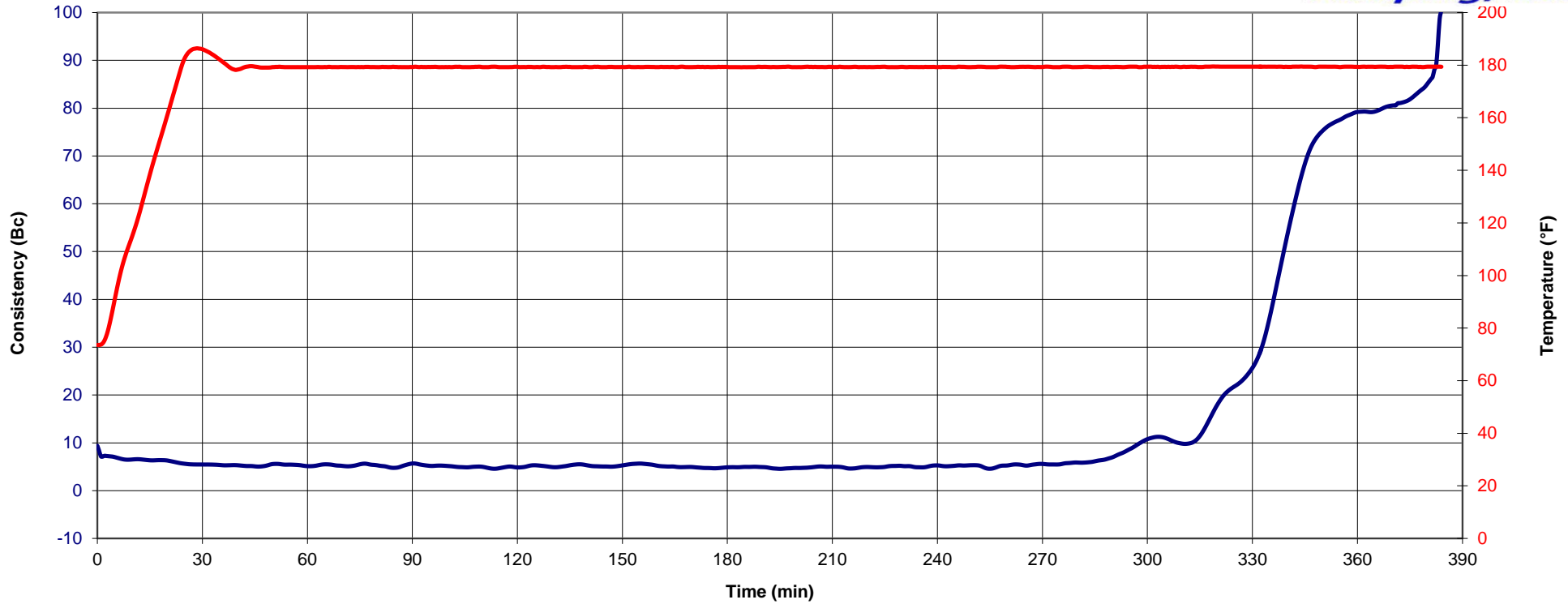
Unit 445052 Density



Thickening Time

PDC Energy

Sandin 24V-341 Ensign 158



BASE BLEND: 1-2-0 'G'
 0.4% ASM-3
 0.3% CFR
 25% Flour
 0.6% C-17

BHCT: 180 °F
SCHEDULE: Production Casing
INSTRUMENT #: 183
TEST DATE: 3/26/2018
WATER SOURCE: Lab Water C
CEMENT SOURCE: Field Blend

Cement: *Dacotah GK6*
Fly Ash: *Boral*

Working Time_{40Bc}: 5:36 Hr:Min.
Thickening Time_{70Bc}: 5:46 Hr:Min.
Thickening Time_{100 Bc}: 6:24 Hr:Min.
Density: 13.50 lbs/gal
Yield: 1.81 ft³/sack
Water Requirement: 8.84 gal/sack

