



5.5" Production Cement Post Job Report

Prepared For: Mr. Chad Fitzgerald
Prepared Date: 1/16/2017
Job Date: 1/13/2017

**Whiting Petroleum Corp.
Horsetail 30G-3139
Weld County, CO**

Prepared By: Matt Spirek
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Job Summary

Ticket Number		Ticket Date	
TN#	FL1351	1/13/2017	
COUNTY	COMPANY	API Number	
Weld	Whiting Petroleum Corp.	05-123-43032	
WELL NAME	RIG	JOB TYPE	
Horsetail 30G-3139	Unit 406	Production	
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP	
SW NE 30:10N:57W	Scott, Derek	Mr. Kyle Renton	
EMPLOYEES			
Laeger, Kacey		Begano, Brian	
Madsen, Dewayne			
		Forsyth, Scott	
WELL PROFILE			
Max Treating Pressure (psi):		Bottom Hole Static Temperature (°F): 0	
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	0	13980	0	5150
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	2097		
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	13966	0	5150
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):	0
Type: Scavenger	Volume (sacks):	105	Volume (bbls):	50
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% 50:50:0(POZ:Type III:GEL)+0.3% ASM-3+0.5% FL-17+2% FWC-2+0.1% C-20+0.25#/sx Cello Flake		11	2.66	16.07
Stage 2:	From Depth (ft):	0	To Depth (ft):	503
Type: Lead	Volume (sacks):	305	Volume (bbls):	107
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% 50:50:0(POZ:Type III:GEL)+0.3% ASM-3+0.5% FL-17+2% FWC-2+0.1% C-20+0.25#/sx Cello Flake+0.2-GAL/100-SX CF-41L		12	1.97	10.62
Stage 3:	From Depth (ft):	503	To Depth (ft):	3378
Type: Fill	Volume (sacks):	375	Volume (bbls):	131.5
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% 50:50:0(POZ:Type III:GEL)+0.3% ASM-3+0.5% FL-17+2% FWC-2+0.1% C-20+0.2% C-49+0.25#/sx Cello Flake+0.2-GAL/100-SX CF-41L		12	1.97	10.64
Stage 4:	From Depth (ft):	3378	To Depth (ft):	13980
Type: Tail	Volume (sacks):	1650	Volume (bbls):	432
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
100% 35:65:0(POZ:G:GEL)+0.3% ASM-3+0.5% FL-17+0.2% C-49+0.1% C-20+0.25#/sx Cello Flake+0.2-GAL/100-SX CF-41L		13.5	1.47	7.38

SUMMARY

Preflushes:	50 bbls of	Weighted Spacer	Calculated Displacement (bbl):	Stage 1	Stage 2
	30 bbls of	Mudflush	Actual Displacement (bbl)	309	
	30 bbls of	Visweep		309	
Total Preflush/Spacer Volume (bbl):	110	Plug Bump (Y/N):	Y	Bump Pressure (psi):	2500
Total Slurry Volume (bbl):	720.5	Lost Returns (Y/N):	N	(if Y, when)	
Total Fluid Pumped	1139.5				
Returns to Surface:	Cement	86 bbls			

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

Thank You For Using
O - TEX Pumping

Customer Representative Signature:

[illegible]

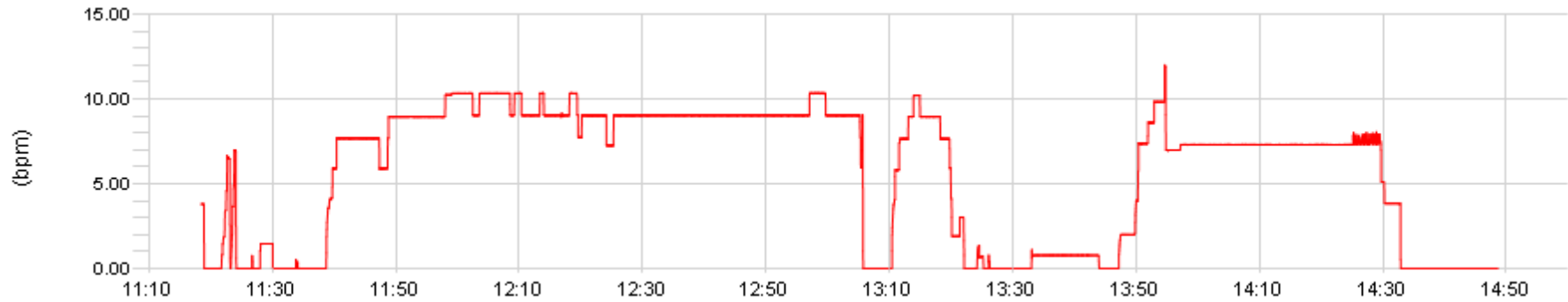


Client Whiting
Ticket No. 1351
Location SWNE Sec30:T10N:R57W
Comments

Client Rep Kyle Renton
Well Name Horsetail 30G-3139
Job Type Production Casing

Supervisor Derek Scott
Unit No. 445052
Service District Brighton, CO
Job Date 01/13/2017

Unit 445052 Rate Total



Unit 445052 Pump Pressure



Unit 445052 Density

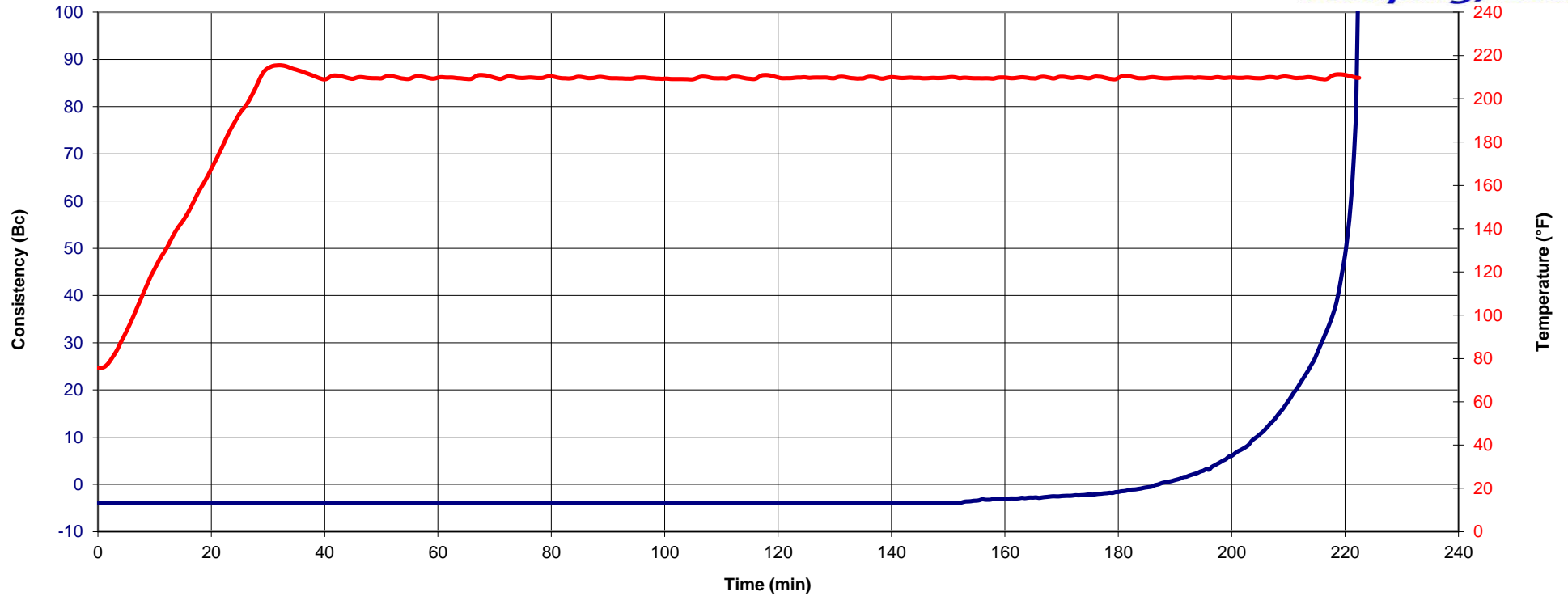


Thickening Time

Whiting Oil and Gas

Horsetail 30G-3139 Unit 406

O-Tex
Pumping, LLC



BASE BLEND: 1-1-0 'III'

0.3% ASM-3

2% FWC-2

0.5% FL-17

0.1% LTR

BHCT: 210 °F

SCHEDULE: Production Casing Lead

INSTRUMENT #: 168

TEST DATE: 1/8/2017

WATER SOURCE: Lab Water C

CEMENT SOURCE: Field Blend

Cement: *Dacotah III*

Fly Ash: *Boral*

Working Time _{40Bc}: 3:39 Hr:Min.

Thickening Time _{70Bc}: 3:42 Hr:Min.

Thickening Time _{100 Bc}: 3:42 Hr:Min.

Density: 12.00 lbs/gal

Yield: 1.96 ft³/sack

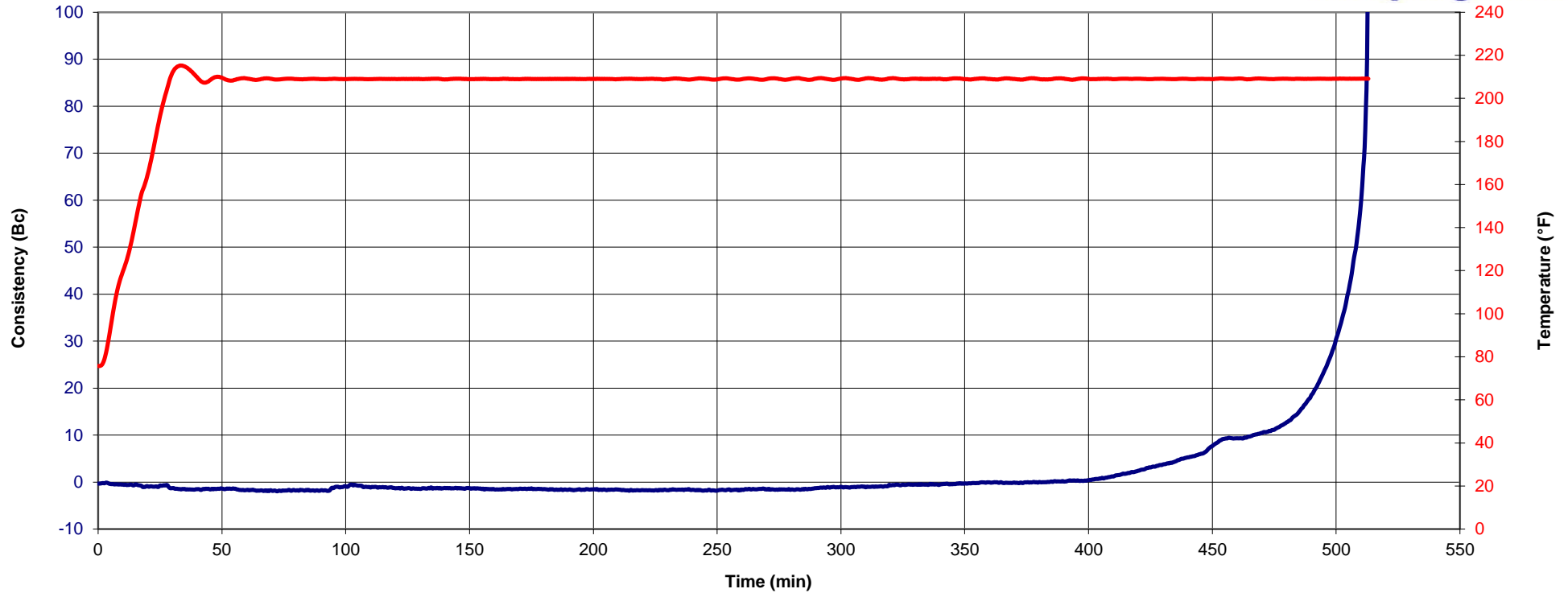
Water Requirement: 10.88 gal/sack

Thickening Time

Whiting Oil and Gas

Horsetail 30G-3139 Unit 406

O-Tex
Pumping, LLC



BASE BLEND: 1-2-0 'G'

0.3% ASM-3

0.5% FL-17

0.1% LTR

0.2% SPC-II

BHCT: 210 °F

SCHEDULE: Production Casing Tail

INSTRUMENT #: 189

TEST DATE: 1/8/2017

WATER SOURCE: Lab Water C

CEMENT SOURCE: Field Blend

Cement: *Dacotah GK6*

Fly Ash: *Boral*

Working Time _{40Bc}: 8:25 Hr:Min.

Thickening Time _{70Bc}: 8:31 Hr:Min.

Thickening Time _{100 Bc}: 8:33 Hr:Min.

Density: 13.50 lbs/gal

Yield: 1.47 ft³/sack

Water Requirement: 7.30 gal/sack