



5.5" Production

Cement Post Job Report

Prepared For: Mr. Chad Fitzgerald
Prepared Date: 11/16/2016

Whiting Petroleum Corp.
Horestail 30E-1934
Weld County, Colorado

Prepared By: Matt Spirek
Phone: (701) 339-2766
Email: matt.spirek@otexpumping.com



Job Summary

Ticket Number	Ticket Date
TN# FL1188	11/1/2016

COUNTY	COMPANY	CUSTOMER REP
Weld	Whiting Petroleum Corp.	Chris
WELL NAME	RIG	JOB TYPE
Horestail 30E-1934	Unit Drilling 406	Production
SURFACE WELL LOCATION	O-TEX Field Supervisor	
NW SW Sec30:R10N:T57W	Klosterman, Austin	
EMPLOYEES		
Scott, Derek	Seniours, David	
Hellar, Brian		

WELL PROFILE

Max Treating Pressure (psi):	Bottom Hole Static Temperature (°F):
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	2050	13965		
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	2050	0	0
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	13962		
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):	0.00
Type: Scavenger	Volume (sacks):	105	Volume (bbls):	50
Cement:	50% Class C / 50% Poz	Density (ppg)	Yield (ft³/sk)	Water Req.
Additives:	0.3% ASM-3 + 0.5% FL-17 + 22 FWC-2 + 0.1% C-20 + 0.25lb/sk Celloflake	11	2.71	16.33
Stage 2:	From Depth (ft):	0	To Depth (ft):	2200.00
Type: Lead	Volume (sacks):	305	Volume (bbls):	107
Cement:	50% Class C / 50% Poz	Density (ppg)	Yield (ft³/sk)	Water Req.
Additives:	0.3% ASM-3 + 0.5% FL-17 + 2% FWC-2 + 0.1% C-20 + 0.1% C-20 + 0.25lb/sk Celloflake	12	1.97	10.8
Stage 3:	From Depth (ft):	2200	To Depth (ft):	5000.00
Type: Fill	Volume (sacks):	375	Volume (bbls):	131
Cement:	50% Class C / 50% Poz	Density (ppg)	Yield (ft³/sk)	Water Req.
Additives:	0.3% ASM-3 + 0.5% FL-17 + 2% FWC-2 + 0.1% C-20 + 0.2% C-49 + 0.25lb/sk Celloflake	12	1.97	10.82
Stage 4:	From Depth (ft):	5000	To Depth (ft):	13965.00
Type: Tail	Volume (sacks):	1635	Volume (bbls):	434
Cement:	35:65:0(POZ:G:GEL)	Density (ppg)	Yield (ft³/sk)	Water Req.
Additives:	0.3% ASM-3 + 0.5% FL-17 + 0.2% C-49 + 0.1% C-20 + 0.25lb/sk Celloflake	13.5	1.49	7.46

SUMMARY

Preflushes:	30 bbls of	Mudflush	Calculated Displacement (bbl):	308.5
	30 bbls of	Visweep	Actual Displacement (bbl)	308.5
	10 bbls of	Fresh Water	Plug Bump (Y/N):	Y
Total Preflush/Spacer Volume (bbl):	70		Bump Pressure (psi):	2480
Total Slurry Volume (bbl):	722		Lost Returns (Y/N):	N (if Y, when)
Total Fluid Pumped	1100.5			
Returns to Surface:	Cement	50 bbls		

Thank You For Using

O - TEX Pumping

Customer Representative Signature:

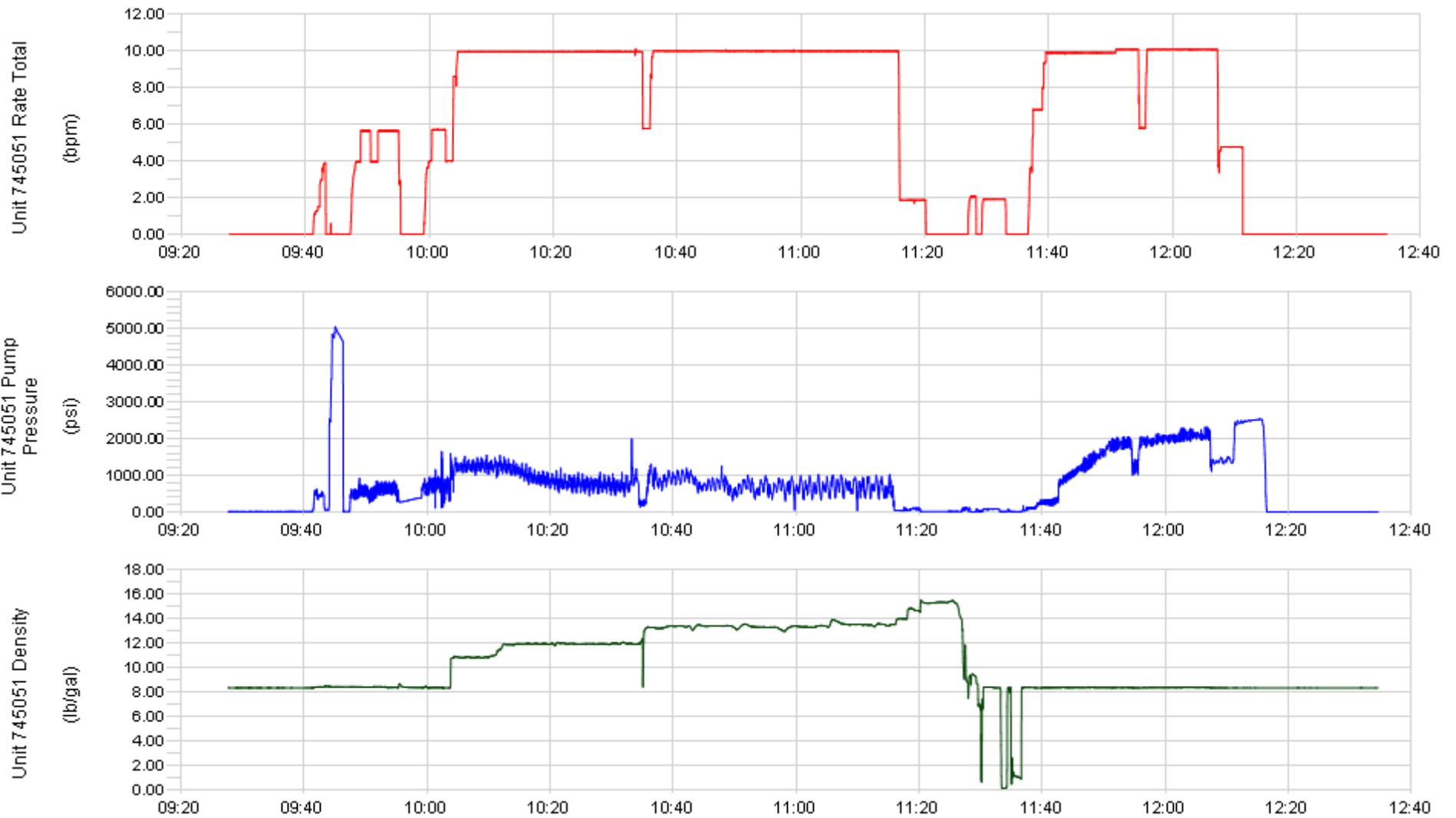
[illegible]

O-Tex Pumping

Client Whiting
Ticket No. 1188
Location NW SW Sec30:R10N:T57W
Comments

Client Rep Chris
Well Name Horsetail 30E-1934
Job Type Production Casing

Supervisor Derek Scott
Unit No. 745051
Service District Fort Lupton
Job Date 11/01/2016

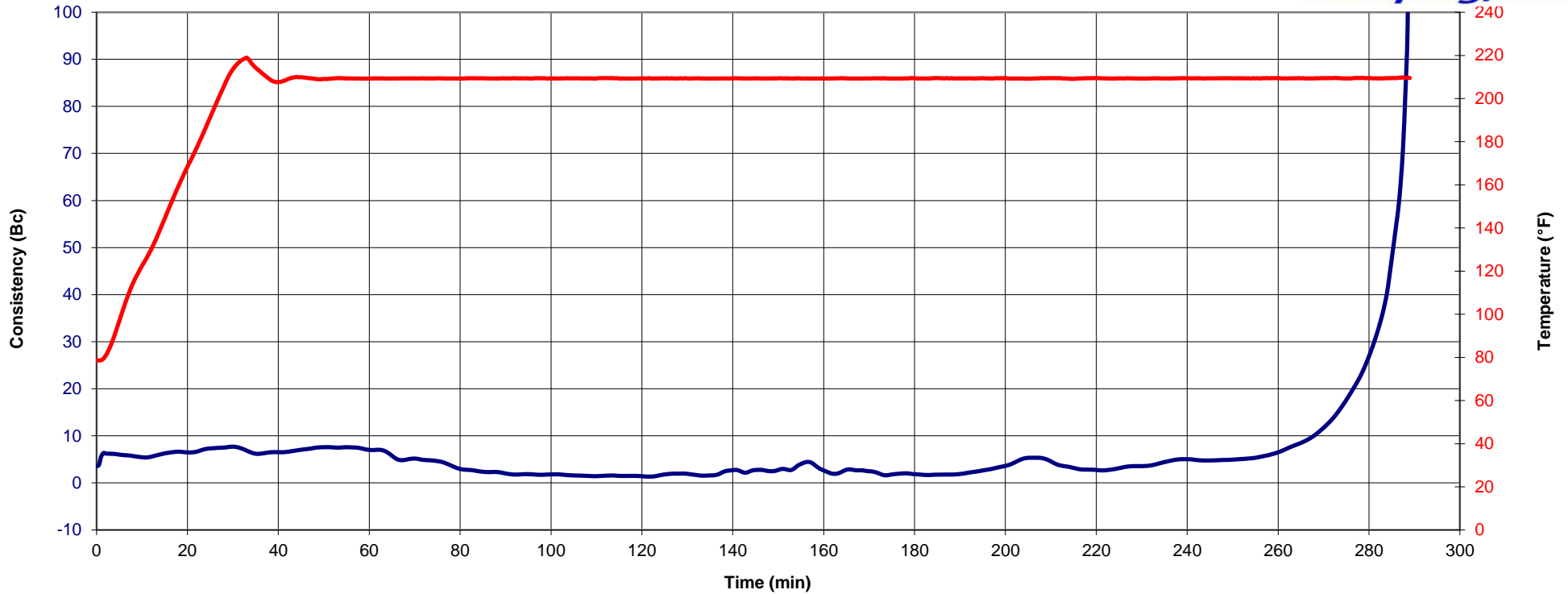


Thickening Time

Whiting Oil and Gas

Horsetail 30E-1934 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 #: 184

TEST DATE: 10/29/2016

WATER SOURCE: Lab Water C

CEMENT SOURCE: Field Blend

Cement: *Dacotah III*

Fly Ash: *Jim Bridger*

Working Time _{40Bc}: 4:44 Hr:Min.

Thickening Time _{70Bc}: 4:47 Hr:Min.

Thickening Time _{100 Bc}: 4:49 Hr:Min.

Density: 12.00 lbs/gal

Yield: 1.96 ft³/sack

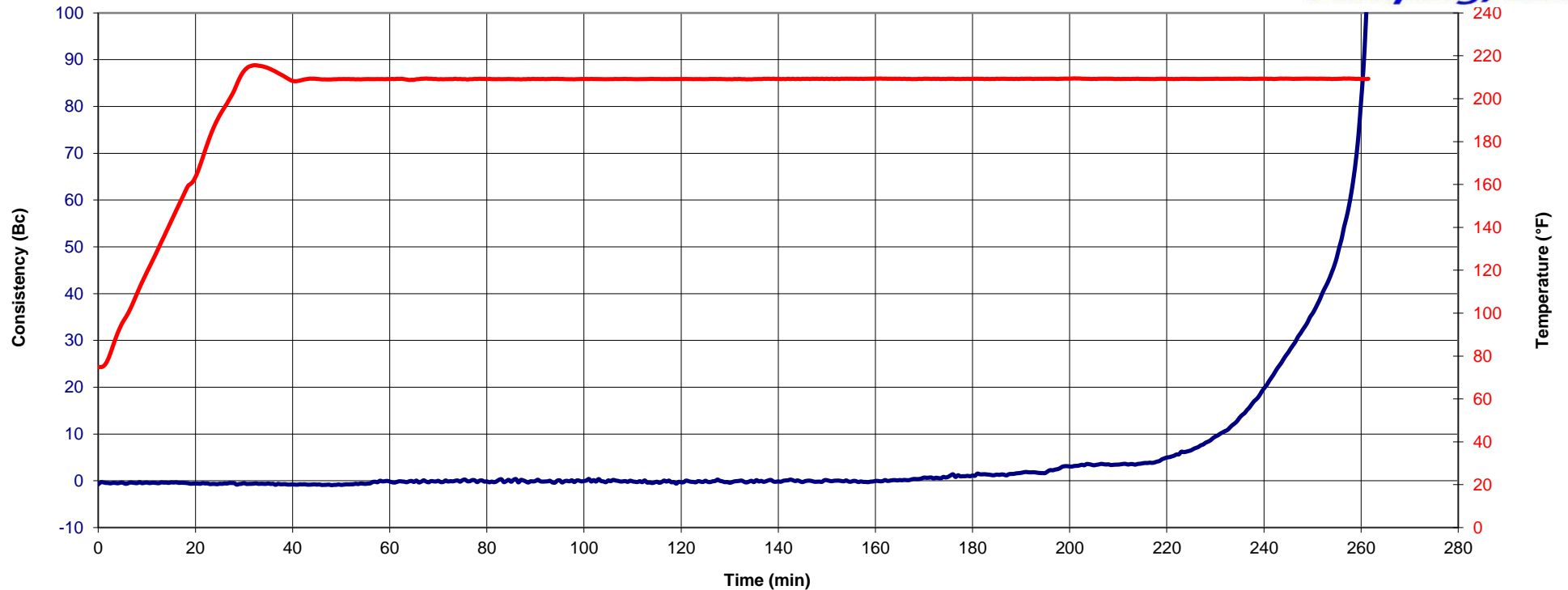
Water Requirement: 10.88 gal/sack

Thickening Time

Whiting Oil and Gas

Horsetail 30E-1934 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
0.2% SPC-II

BHCT: 210 °F

SCHEDULE: Production Casing Lead Fill

INSTRUMENT #: 189

TEST DATE: 10/29/2016

WATER SOURCE: Lab Water C

CEMENT SOURCE: Field Blend

Cement: *Dacotah III*

Fly Ash: *Jim Bridger*

Working Time _{40Bc}: 4:12 Hr:Min.

Thickening Time _{70Bc}: 4:19 Hr:Min.

Thickening Time _{100 Bc}: 4:21 Hr:Min.

Density: 12.00 lbs/gal

Yield: 1.96 ft³/sack

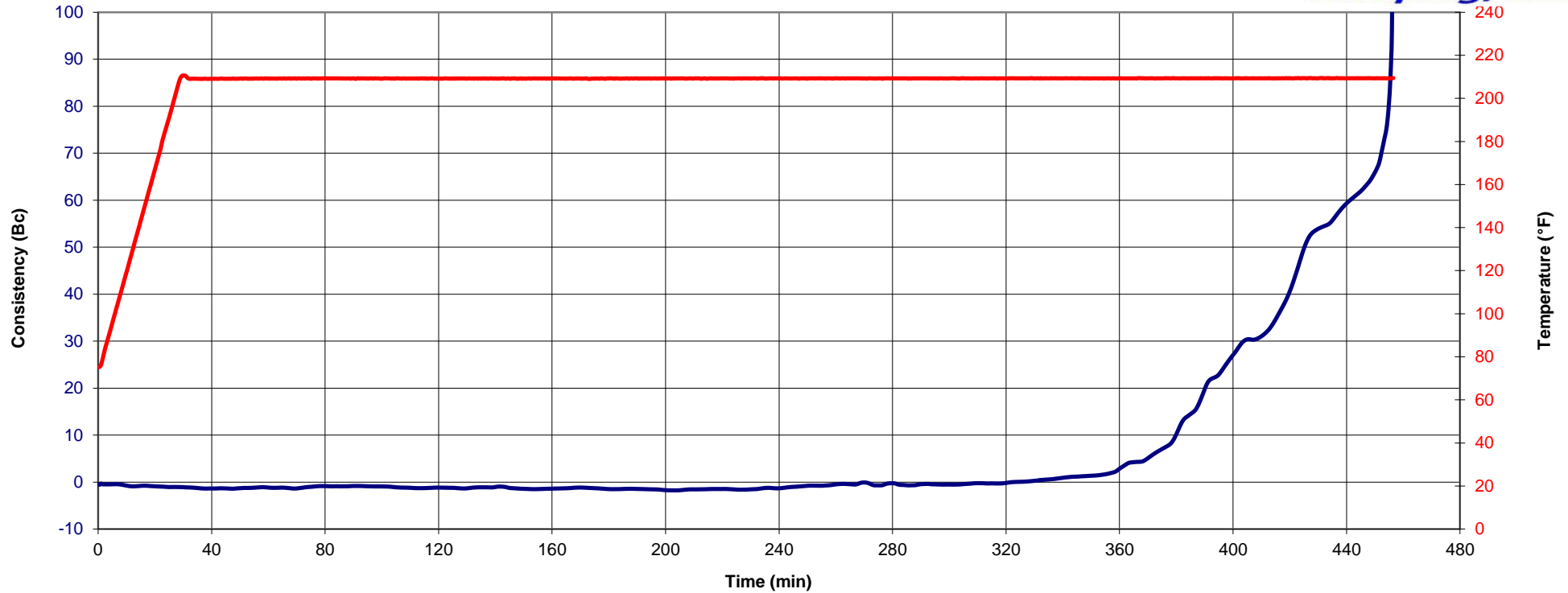
Water Requirement: 10.90 gal/sack

Thickening Time

Whiting Oil and Gas

Horsetail 30E-1934 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 #: 186

TEST DATE: 10/29/2016

WATER SOURCE: Lab Water C

CEMENT SOURCE: Field Blend

Cement: *Dacotah GK6*

Fly Ash: *Jim Bridger*

Working Time _{40Bc}: 7:00 Hr:Min.

Thickening Time _{70Bc}: 7:32 Hr:Min.

Thickening Time _{100 Bc}: 7:36 Hr:Min.

Density: 13.50 lbs/gal

Yield: 1.47 ft³/sack

Water Requirement: 7.30 gal/sack