



## **5.5" Production**

# **Cement Post Job Report**

Prepared For: Mr. Cole Orley

Prepared Date: 6/1/2017

Job Date: 6/1/2017

**Whiting Petroleum Corp.**

**Razor 261-2347**

**Weld County, CO**

Prepared By: Matt Spirek

Phone: (701) 339-2766

Email: [matt.spirek@otexpumping.com](mailto:matt.spirek@otexpumping.com)



# Job Summary

Ticket Number		Ticket Date	
TN#		FL1822	
6/1/2017			
COUNTY	COMPANY	API Number	
Weld	Whiting Petroleum Corp.	05-123-43930	
WELL NAME	RIG	JOB TYPE	
Razor 26I-2347	Unit 406	Production	
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP	
NE SE 26: 10N: 58W	Svoboda, Milo	Kevin	
EMPLOYEES			
Melgarejo, Eduardo			
Davila, Isreal		Laslie, Larry	
WELL PROFILE			
Max Treating Pressure (psi):	4000	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	2079	13927		5829
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	2079		
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	13900		
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):	638
Type: Lead	Volume (sacks):	280	Volume (bbls):	98
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):	638	To Depth (ft):	3802
Type: Fill	Volume (sacks):	395	Volume (bbls):	139
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):	3802	To Depth (ft):	13900
Type: Tail	Volume (sacks):	1575	Volume (bbls):	412
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:	30 bbls of	Mudflush	Calculated Displacement (bbl):	Stage 1	Stage 2
	30 bbls of	Visweep	Actual Displacement (bbl):	308	
	50 bbls of	Weighted Spacer		309	
Total Preflush/Spacer Volume (bbl):	110	Plug Bump (Y/N):	N	Bump Pressure (psi):	
Total Slurry Volume (bbl):	649	Lost Returns (Y/N):	N (if Y, when)		
Total Fluid Pumped	1068				
Returns to Surface:	Cement	65 bbls			

Job Notes (fluids pumped / procedures / tools / etc.): FC set @ 13856'. Toolhand were not sure if plug left cement head so we pumped calculated displacement + 1 bbl and did not bump. Pumped as per program. Casing stopped rotating @ 250 bbls of tail away.

Customer Representative Signature: \_\_\_\_\_

Thank You For Using

O - TEX Pumping

				<b>CEMENTING JOB LOG</b>				Project Number <b>FL1822</b>		Job Date <b>6/1/2017</b>	
O-Tex Location <b>Brighton, Colorado 303-857-7948</b>				Customer <b>Whiting Petroleum Corp.</b>				State <b>CO</b>		County <b>Weld</b>	
Lease Name <b>Razor 261-2347</b>		Well No.		O-Tex Field Supervisor <b>Svoboda, Milo</b>				Customer Representative <b>Kevin</b>			Phone <b>970-343-4341</b>
Job Type <b>Production</b>				Man Hours <b>50</b>				API Number <b>05-123-43930</b>			
<b>USE THIS FORM TO NOTE ANY ISSUES ENCOUNTERED WITH THE PERFORMANCE OF THIS JOB.</b>											
<b>THIS MAY INCLUDE TIME AT THE SHOP, ON THE ROAD OR DELAYS WITH DRILLING CONTRACTOR.</b>											
DATE	TIME	VOLUME		RATE	PRESS		JOB PROCEDURES				
					CSG	Tbg.					
5/31/2017	19:00						Arrive on location				
	19:20						Tail gate meeting				
	19:45						Rig in				
6/1/2017	1:20						JSA with OSR, rig crew, toolhands				
	2:04	2	bbl	1.50	400		Fill line				
	2:10				5100		Pressure test				
	2:20	30	bbl	8.00	1000		Mudflush - good returns				
	2:26	30	bbl	6.00	800		Visweep				
	2:33	50	bbl	8.00	1000		Scavenger				
	2:40	98	bbl	8.00	1000		Lead @ 12 ppg				
	2:55	139	bbl	8.50	650		Fill @ 12 ppg				
	3:15	412	bbl	9.00	500		Tail @ 13.5 ppg				
	4:21						Pump out line - drop plug				
	4:31	309	bbl	7.50	1700		Displace plug (33# of MCR-4 in first 20 bbls)				
	5:49				1300		Stopped pumping - no bump				
	5:53						Check float - got 2 bbls back				
	6:10						Rig out				
	6:45						Job complete				
	7:00						Pre-departure meeting				
7:30						Leave location					
<b>JOB CALCULATIONS</b>											
TOT @ 3802'											
CF set @ 13856'											
<b>CASING DATA</b>											
<b>ANNULAR DATA</b>											
<b>PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW</b>											
Casing stopped rotating @ 250 bbls of tail away. Toolhands were not sure if plug left cement head so we pumped calculated displacement + 1 bbl and did not bump. Pumped as per program.											



Client Whiting  
Ticket No. 1822  
Location NE SE 26 10N 58W  
Comments pump as per program

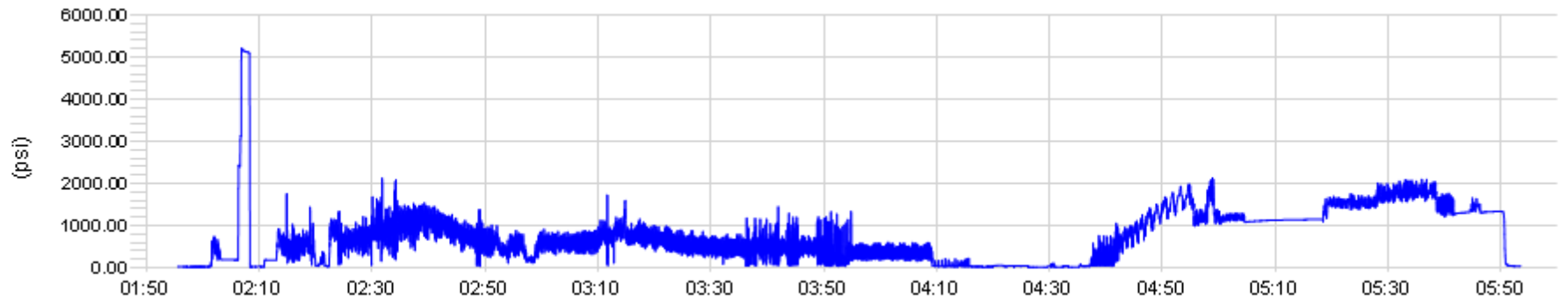
Client Rep Kevin  
Well Name Razor 261-2347  
Job Type Production Casing

Supervisor Milo Svoboda  
Unit No. 445051  
Service District Brighton, CO  
Job Date 06/01/2017

Unit 445051 Rate Total



Unit 445051 Pump Pressure



Unit 445051 Density

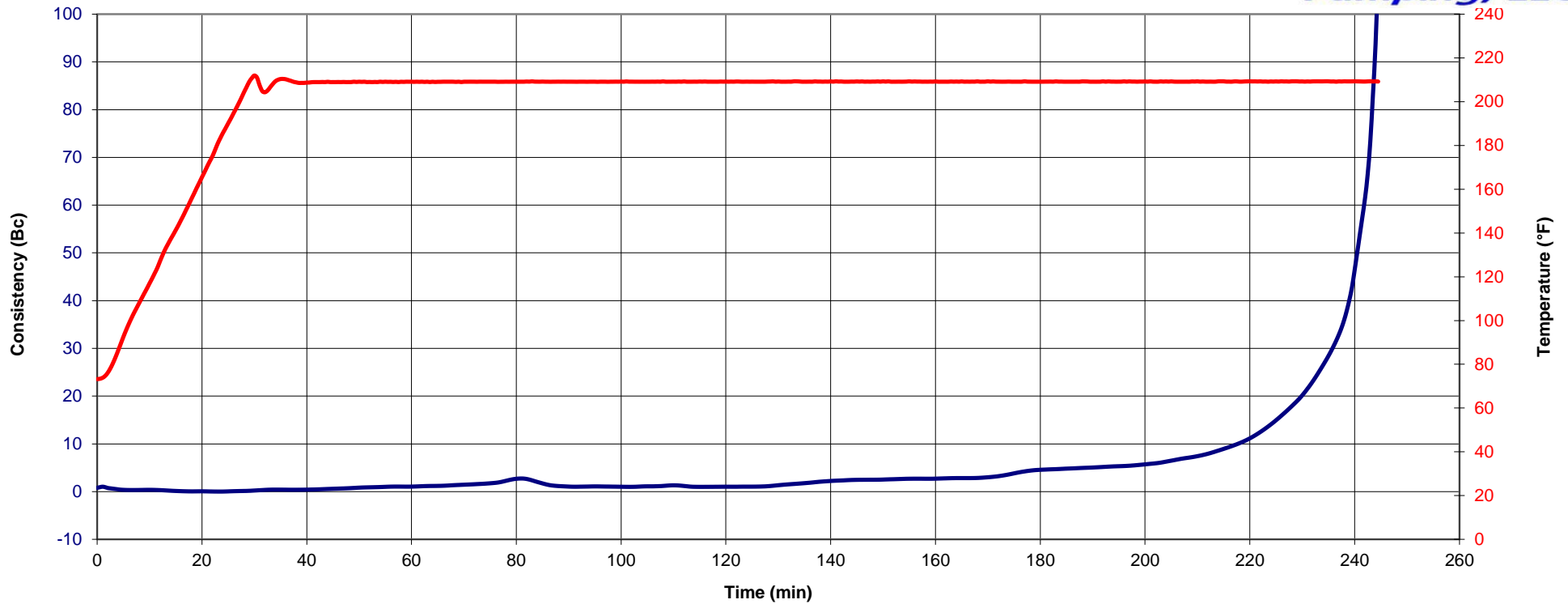


# Thickening Time

Whiting Oil and Gas

Razor 26I-2347 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:** 5/30/2017

**WATER SOURCE:** Lab Water C

**CEMENT SOURCE:** Field Blend

**Cement:** *Dacotah III*

**Fly Ash:** *Boral*

**Working Time** <sub>40Bc</sub>: 3:59 Hr:Min.

**Thickening Time** <sub>70Bc</sub>: 4:03 Hr:Min.

**Thickening Time** <sub>100 Bc</sub>: 4:04 Hr:Min.

**Density:** 12.00 lbs/gal

**Yield:** 1.94 ft<sup>3</sup>/sack

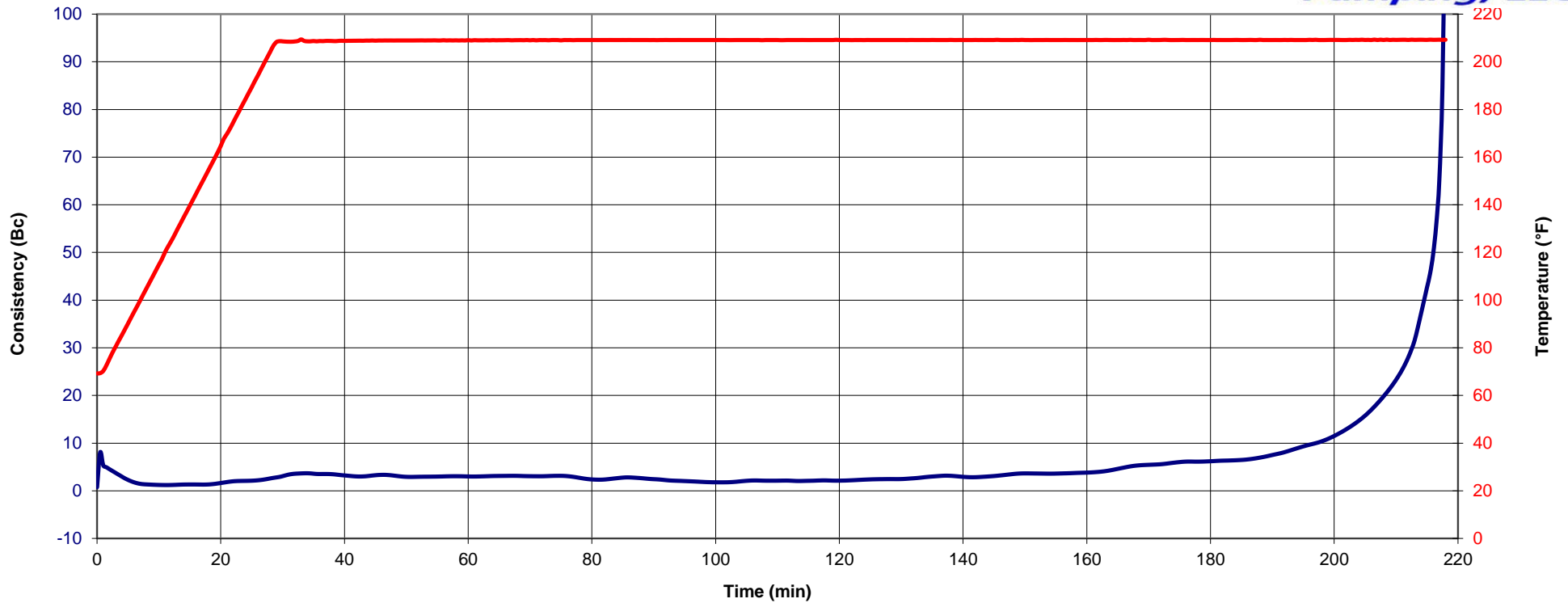
**Water Requirement:** 10.70 gal/sack

# Thickening Time

Whiting Oil and Gas

Razor 26I-2347 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 Fil

**INSTRUMENT #:** 186

**TEST DATE:** 5/30/2017

**WATER SOURCE:** Lab Water C

**CEMENT SOURCE:** Field Blend

**Cement:** *Dacotah III*

**Fly Ash:** *Boral*

**Working Time** <sub>40Bc</sub>: 3:35 Hr:Min.

**Thickening Time** <sub>70Bc</sub>: 3:37 Hr:Min.

**Thickening Time** <sub>100 Bc</sub>: 3:38 Hr:Min.

**Density:** 12.00 lbs/gal

**Yield:** 1.95 ft<sup>3</sup>/sack

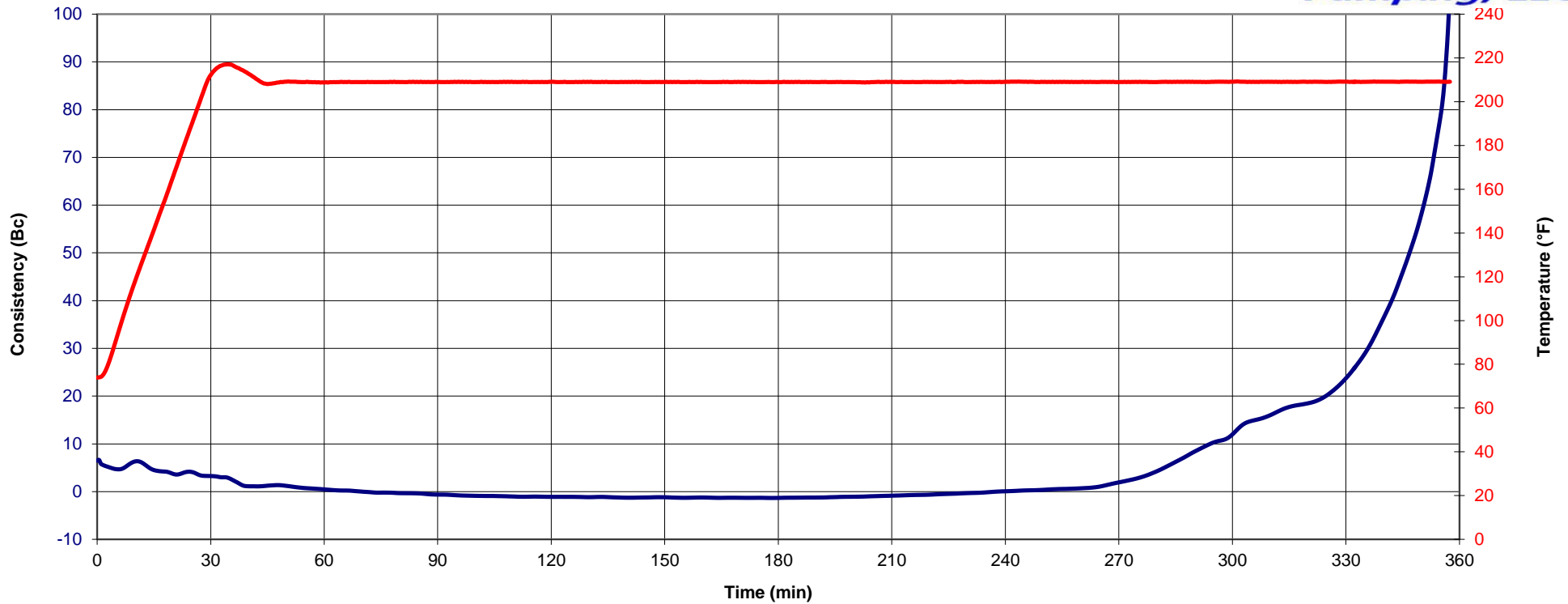
**Water Requirement:** 10.72 gal/sack

# Thickening Time

Whiting Oil and Gas

Razor 26I-2347 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:** 5/30/2017

**WATER SOURCE:** Lab Water C

**CEMENT SOURCE:** Field Blend

**Cement:** *Dacotah GK6*

**Fly Ash:** *Boral*

**Working Time** <sub>40Bc</sub>: 5:42 Hr:Min.

**Thickening Time** <sub>70Bc</sub>: 5:53 Hr:Min.

**Thickening Time** <sub>100 Bc</sub>: 5:57 Hr:Min.

**Density:** 13.50 lbs/gal

**Yield:** 1.46 ft<sup>3</sup>/sack

**Water Requirement:** 7.21 gal/sack