



## **5.5" Production**

# **Cement Post Job Report**

Prepared For: Mr. James Jackson  
Prepared Date: 7/3/2017  
Job Date: 7/3/2017

**Ward Petroleum**

**Ritchey 26-1-19HC**

**Weld County, Colorado**

Prepared By: Scott Pollard  
Phone: (406) 720-0713  
Email: [scott.pollard@otexpumping.com](mailto:scott.pollard@otexpumping.com)



# Job Summary

Ticket Number		Ticket Date
TN#	FL1986	7/3/2017

COUNTY	COMPANY	jk;
<b>Weld</b>	<b>Ward Petroleum</b>	05-123-44745
WELL NAME	RIG	JOB TYPE
<b>Ritchey 26-1-19HC</b>	<b>Precision 460</b>	<b>Production</b>
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP
S26 - T1N - R66W	<b>Cheal, Sam</b>	<b>Ray Hoffman</b>

EMPLOYEES		
	<i>Leslie, Larry</i>	
<i>Devine, Rich</i>	<i>Phillips, James</i>	

<b>WELL PROFILE</b>			
Max Treating Pressure (psi):	4000	Bottom Hole Static Temperature (°F):	240
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	1496	12586	1496	7745
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	1496	0	1496
Production	5.5	20	P-110	0	12542	0	7745

### CEMENT DATA

**Stage 1:** From Depth (ft):  To Depth (ft):   
 Type: **Lead** Volume (sacks):  Volume (bbls):

Cement & Additives:	Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
100% 50:50:0(POZ:Type III:GEL)+0.3% ASM-3+2% FWC-2+0.5% FL-17+0.2% MCR-4+0.25#/sx Cello Flake+0.01-GPS CF-41L	12	1.96	10.81

**Stage 2:** From Depth (ft):  To Depth (ft):   
 Type: **Tail** Volume (sacks):  Volume (bbls):

Cement & Additives:	Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
100% 35:65:0(POZ:G:GEL)+25% Silica Flour+0.3% ASM-3+0.7% FL-17+0.2% C-49+0.15% MCR-4+0.25#/sx Cello Flake	13.5	1.80	8.78

### SUMMARY

Preflushes:	30 bbls of <input type="text" value="Mudflush"/>	Calculated Displacement (bbl):	<input type="text" value="277.3"/>
	30 bbls of <input type="text" value="Visweep"/>	Actual Displacement (bbl):	<input type="text" value="277.3"/>
	<input type="text" value=""/>		
Total Preflush/Spacer Volume (bbl):	<input type="text" value="60"/>	Plug Bump (Y/N):	Yes <input type="text" value=""/>
Total Slurry Volume (bbl):	<input type="text" value="558.3"/>	Lost Returns (Y/N):	No <input type="text" value=""/> (if Y, when)
Total Fluid Pumped	<input type="text" value="895.6"/>	Bump Pressure (psi):	<input type="text" value="2700"/>
Returns to Surface:	<input type="text" value="Cement"/> <input type="text" value="36"/> bbls		

Job Notes (fluids pumped / procedures / tools / etc.): **Cement production casing - Mixed / pumped 30bbls of Mudflush (100lbs SAPP + 5gal WS-30), 30bbls of Visweep (10gal WG-1L), 301.9bbls of Lead cement, 256.4bbls of Tail cement, Displaced 277.3bbls of treated fresh water (first 20bbls had 50lbs of sugar), Pumped through O-Tex 5 1/2" cement head to bump. Job performed as per promgram / customer request.**

**Thank You For Using**  
**O - TEX Pumping**

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



### CEMENTING JOB LOG

Project Number	FL1986	Job Date	7/3/2017
State	Colorado	County	Weld
Customer	Ward Petroleum	Customer Representative	Ray Hoffman
O-Tex Field Supervisor	Cheal, Sam	Phone	970-302-8842
Man Hours	24	API Number	05-123-44745

O-Tex Location	Brighton, Colorado 303-857-7948
Lease Name	Ritchey 26-1-19HC
Well No.	

USE THIS FORM TO NOTE ANY ISSUES ENCOUNTERED WITH THE PERFORMANCE OF THIS JOB.  
THIS MAY INCLUDE TIME AT THE SHOP, ON THE ROAD OR DELAYS WITH DRILLING CONTRACTOR.

DATE	TIME	VOLUME	RATE	PRESS		JOB PROCEDURES
				CSG	Tbg.	
7/3/2017	7:00					Leave Yard previous location
	7:30					Arrive at location (requested @:00)
	7:39					Tailgate meeting (talk about spotting trucks) / sign in
	7:44					Spot SCM pump unit 445051 + 445052
	7:50					Rig in / test cement mix water
	8:20					Wait on rig to run 5 1/2" casing / circulate
	8:45					Safety meeting with O-Tex crew / rig crew / third party crew
	9:00	2	2.00		230	Fill line with fresh water
	9:23				4500	Pressure test iron
	9:26	30	5.50		300	Pump pre-flush (SAPP + WS-30)
	9:32	30	5.50		440	Pump pre-flush (Visweep)
	9:38	301.9	5.50		139	Mix / pump lead cement @12.0ppg
	10:30	156.4	7.00		260	Mix / pump tail cement @13.5ppg
	11:13				0	Shutdown / wash pump unit / clear line
	11:24				0	Drop plug
	11:25	277.3	8.00		1155	Displace with treated fresh water
	12:08		4.00		1745	Slow rate to bump plug
	12:13		4.00		2700	Bump plug
	12:19				0	Check float (2.8bbbls back)
	12:25					Rig out
	12:50					AAR
	13:00					Leave location

#### JOB CALCULATIONS

Estimated top of Tail cement @ 6,258ft  
TVD @ 7,745ft / float collar @ 12,494ft / shoe @ 12,542ft / TD @ 12,586ft  
36bbbls lead cement back to surface

#### CASING DATA

Surface casing 9 5/8" 36# 0 - 1,496ft (ann. 0.0479)  
Production casing 5 1/2" 20# 0 - 12,542ft (cap. 0.0222)

#### ANNULAR DATA

OH 8 1/2" 1,496 - 12,586ft (ann. 0.0408)  
15% excess on lead and tail cement

**PLEASE NOTE ANY CONTRACTOR ISSUES OR COMMENTS BELOW**



Client Ward Petroleum  
Ticket No. 1986  
Location S26 T1N R66W  
Comments See job log for details

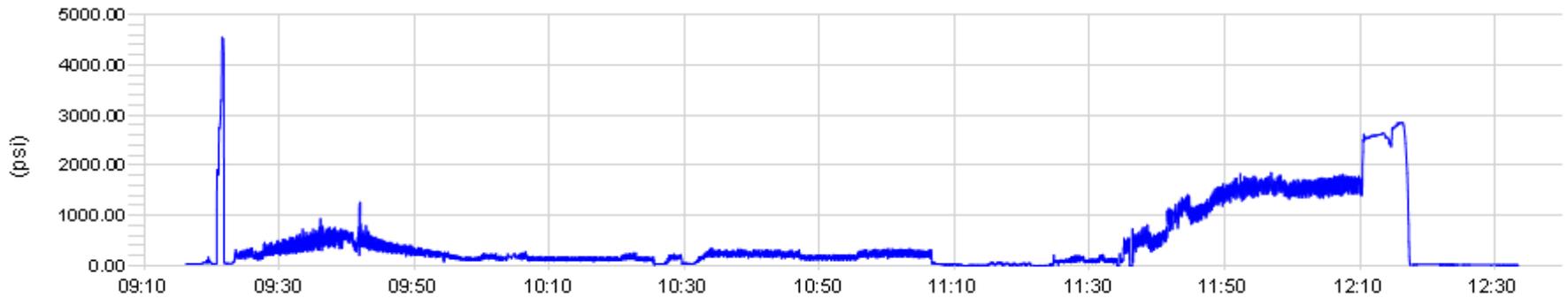
Client Rep Ray Hoffman  
Well Name Ritchey 26-1-19HC  
Job Type Production Casing

Supervisor Sam Cheal  
Unit No. 445051  
Service District Brighton, CO  
Job Date 07/03/2017

Unit 445051 Rate Total



Unit 445051 Pump Pressure



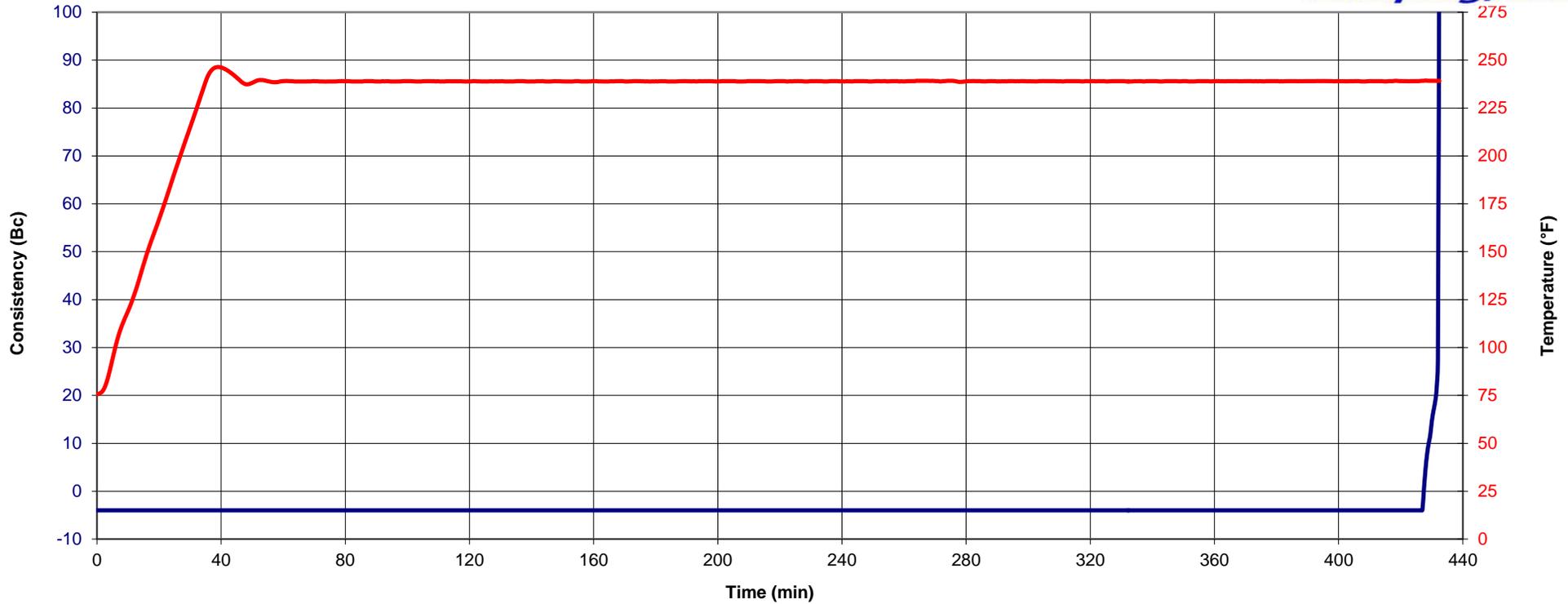
Unit 445051 Density



# Thickening Time

Ward Petroleum

Ritchey 26-1-19HC



**BASE BLEND:** 1-1-0 'III'  
 0.3% ASM-3  
 2% FWC-2  
 0.5% FL-17  
 0.2% MCR-4

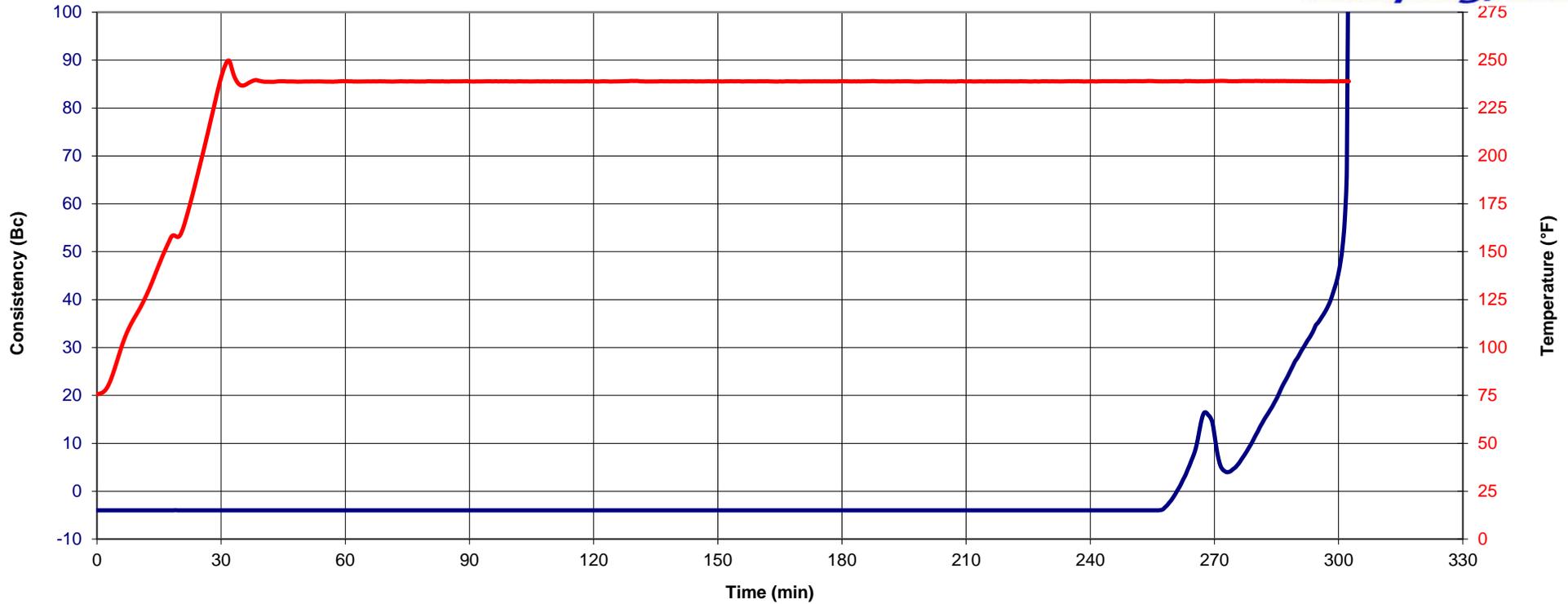
**BHCT:** 240 °F  
**SCHEDULE:** Production Casing Lead  
**INSTRUMENT #:** 168  
**TEST DATE:** 7/1/2017  
**WATER SOURCE:** Lab Water C  
**CEMENT SOURCE:** Field Blend  
**Cement:** *Dacotah III*  
**Fly Ash:** *Boral*

**Working Time**<sub>40Bc</sub>: 7:12 Hr:Min.  
**Thickening Time**<sub>70Bc</sub>: 7:12 Hr:Min.  
**Thickening Time**<sub>100 Bc</sub>: 7:12 Hr:Min.  
**Density:** 12.00 lbs/gal  
**Yield:** 1.95 ft<sup>3</sup>/sack  
**Water Requirement:** 10.74 gal/sack

# Thickening Time

Ward Petroleum

Ritchey 26-1-19HC



**BASE BLEND:** 1-2-0 'G'  
 0.3% ASM-3  
 25% Flour  
 0.7% FL-17  
 0.15% MCR-4  
 0.2% SPC-II

**BHCT:** 240 °F  
**SCHEDULE:** Production Casing Tail  
**INSTRUMENT #:** 0  
**TEST DATE:** 1/0/1900  
**WATER SOURCE:** Lab Water C  
**CEMENT SOURCE:** Field Blend

**Working Time**<sub>40Bc</sub>: 4:58 Hr:Min.  
**Thickening Time**<sub>70Bc</sub>: 5:02 Hr:Min.  
**Thickening Time**<sub>100 Bc</sub>: 5:02 Hr:Min.

**Density:** 13.50 lbs/gal  
**Yield:** 1.81 ft<sup>3</sup>/sack  
**Water Requirement:** 8.83 gal/sack

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

