



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
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Job Summary

Ticket Number		Ticket Date	
TN#	FL1986	7/3/2017	
COUNTY	COMPANY	jk;	
Weld	Ward Petroleum	05-123-44745	
WELL NAME	RIG	JOB TYPE	
Ritchey 26-1-19HC	Precision 460	Production	
SURFACE WELL LOCATION	O-TEX Field Supervisor	CUSTOMER REP	
S26 - T1N - R66W	Cheal, Sam	Ray Hoffman	
EMPLOYEES			
Leslie, Larry			
Devine, Rich		Phillips, James	
WELL PROFILE			
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
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	12542	0	7745
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):	6258
Type: Lead	Volume (sacks):	865	Volume (bbls):	301.9

Cement & Additives:	Density (ppg)	Yield (ft³/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):	6,258	To Depth (ft):	12542
Type: Tail	Volume (sacks):	800	Volume (bbls):	256.4

Cement & Additives:	Density (ppg)	Yield (ft³/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 Mudflush	Calculated Displacement (bbl):	277.3
	30 bbls of Visweep	Actual Displacement (bbl):	277.3
	bbls of		
Total Preflush/Spacer Volume (bbl):	60	Plug Bump (Y/N):	Yes
Total Slurry Volume (bbl):	558.3	Lost Returns (Y/N):	No (if Y, when)
Total Fluid Pumped	895.6	Bump Pressure (psi):	2700
Returns to Surface:	Cement		
	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 promgam / customer request.**

Thank You For Using

O - TEX Pumping

Customer Representative Signature: _____

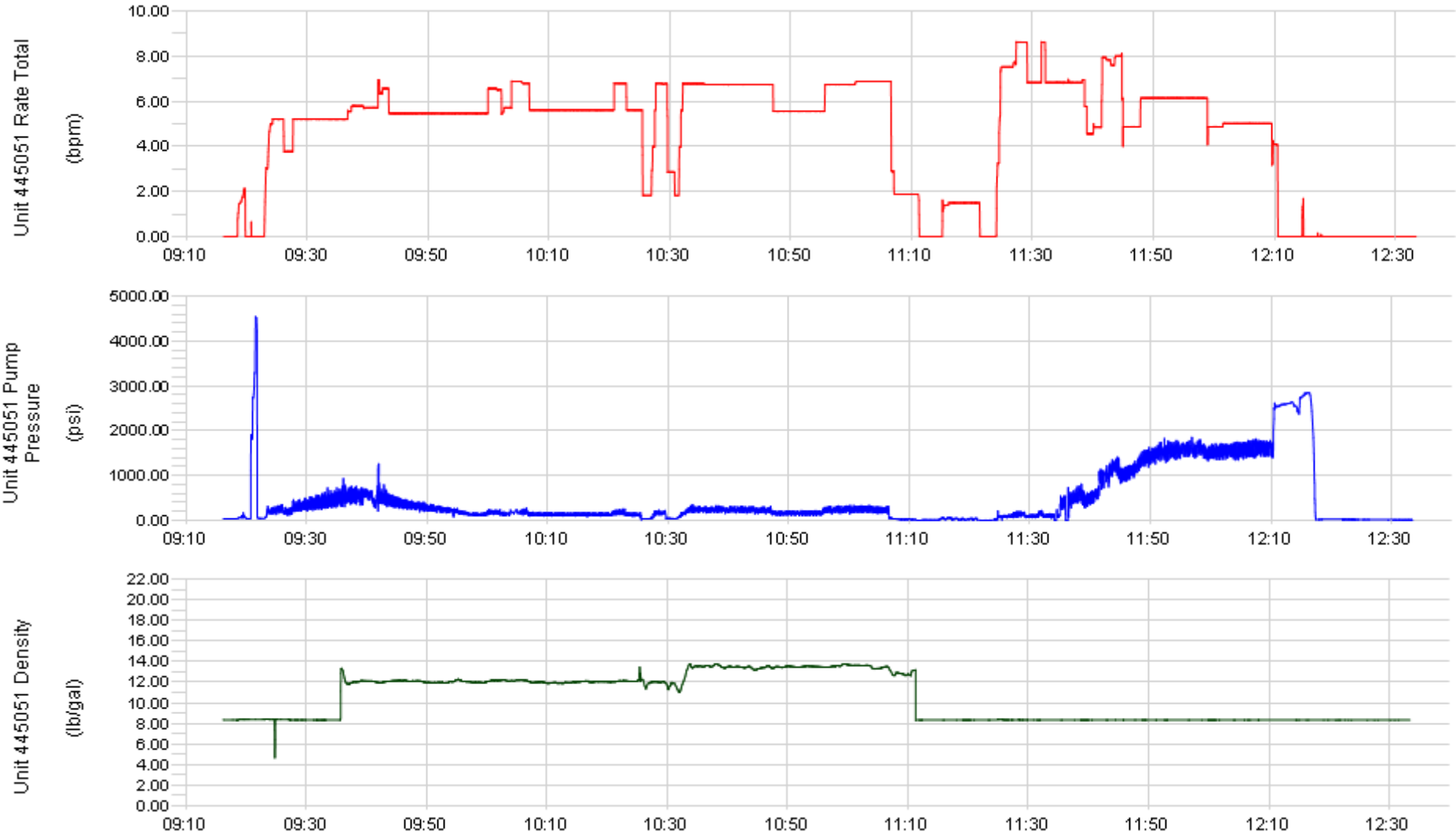
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Client Ward Petroleum
Ticket No. 1986
Location S26 T1N R66W
Comments See job log for details

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

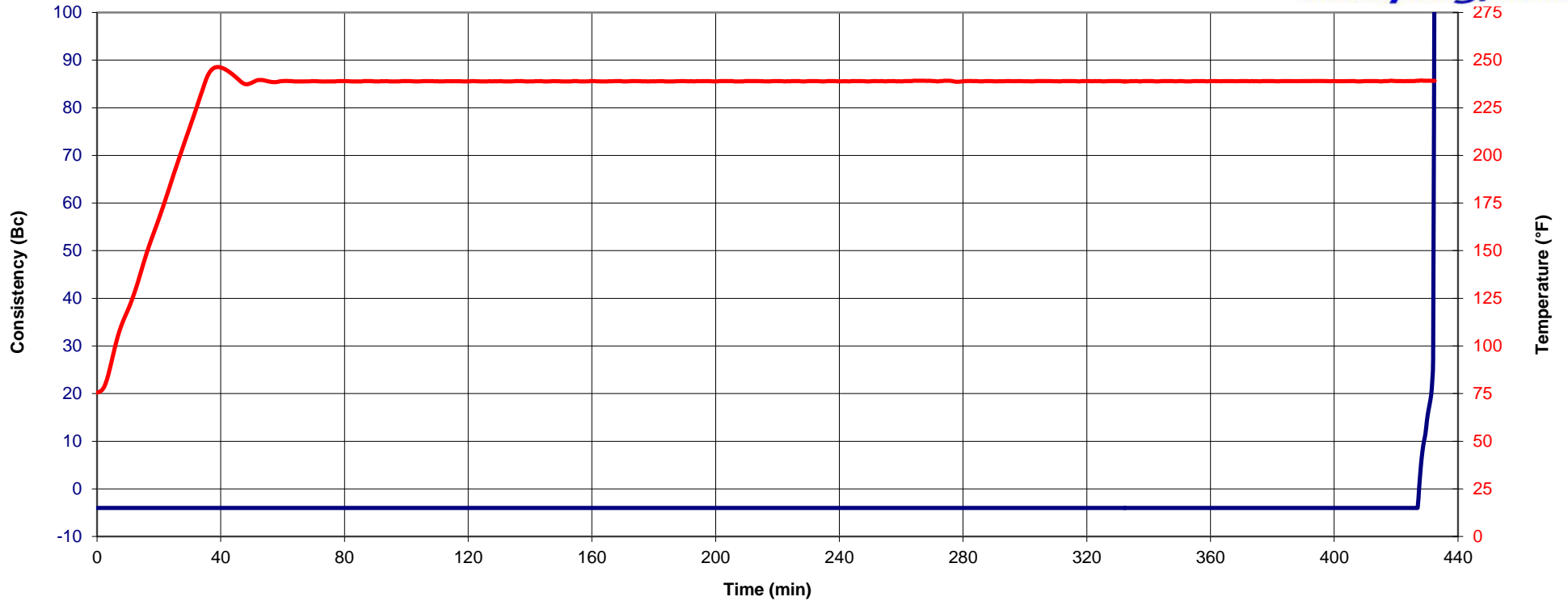


Thickening Time

Ward Petroleum

Ritchey 26-1-19HC

O-Tex
Pumping, LLC



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 _{40Bc}: 7:12 Hr:Min.

Thickening Time _{70Bc}: 7:12 Hr:Min.

Thickening Time _{100 Bc}: 7:12 Hr:Min.

Density: 12.00 lbs/gal

Yield: 1.95 ft³/sack

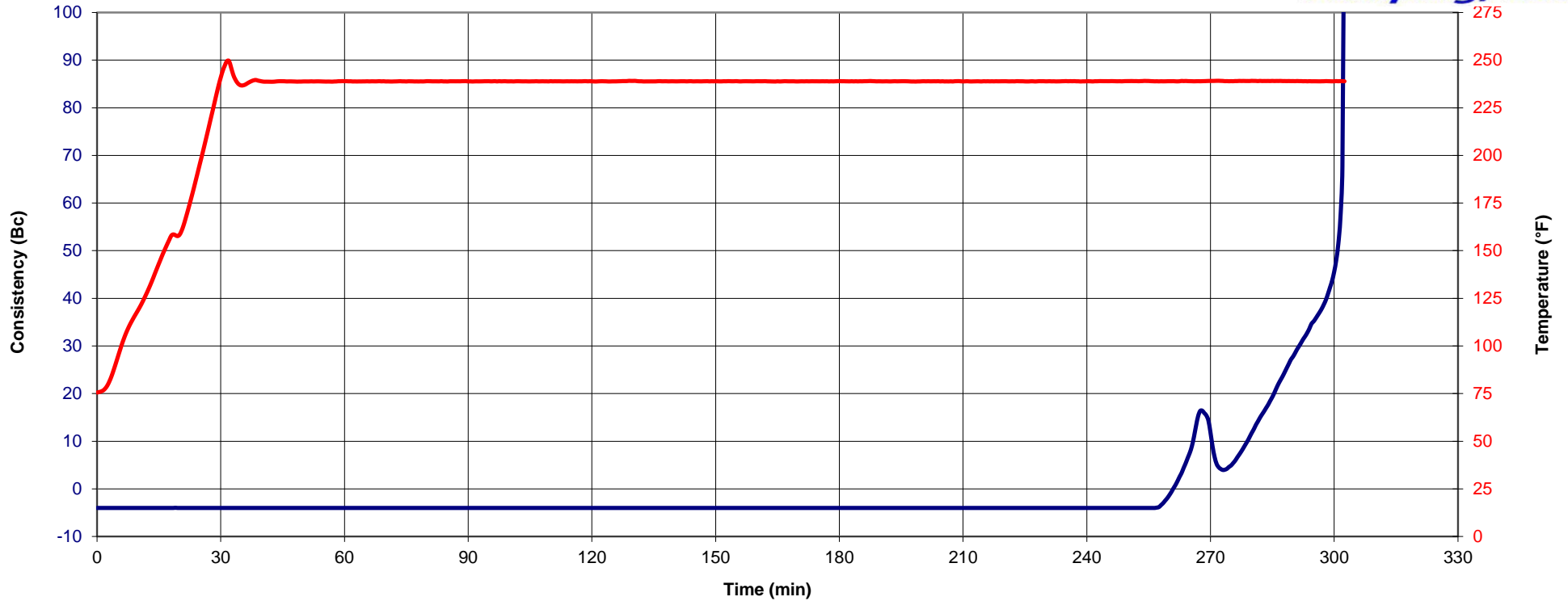
Water Requirement: 10.74 gal/sack

Thickening Time

Ward Petroleum

Ritchey 26-1-19HC

O-Tex
Pumping, LLC



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

Cement: *Dacotah GK6*

Fly Ash: *Boral*

Working Time _{40Bc}: 4:58 Hr:Min.

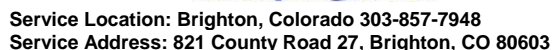
Thickening Time _{70Bc}: 5:02 Hr:Min.

Thickening Time _{100 Bc}: 5:02 Hr:Min.

Density: 13.50 lbs/gal

Yield: 1.81 ft³/sack

Water Requirement: 8.83 gal/sack



TN #	FL1986
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Service Date:	7/3/2017	Well Name:	Ritchey 26-1-19HC	Job Type:	Production
Customer:	Ward Petroleum				
Address:	P.O. Box 1187	County:	Weld	Service Supervisor:	Cheal, Sam
City:	Enid	State:	Colorado		
St:	OK 73702	API #	05-123-44745		
Customer Rep:	Ray Hoffman	AFE #	100981	Pump #1	445051
				Pump #2	445052

[illegible]

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: _____