



9211536

Client Name Whiting Petroleum Corp.	Well Name Horsetail 08C - 1708	Rig Unit Drilling Co. 409	Job Date May 10,2016	Call Sheet 1066136
Client Representative Tyson	Surface Well Location SW NE Sec 8:T10N:R57W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor

Well Profile

Well Type: Oil

Maximum Treating Pressure (psi): ---

Predicted Bottom Hole Static Temperature (°F): 100.00 @ --

Bottom Hole Circulating Temperature (°F): 80.00 @ --

Bottom Hole Logged Temperature (°F): --- @ --

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
13.500	30.000	0.000	2,035.000	--	--

Casing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
9.625	36.000	J-55	2,020.0	3,520.0	156.23	8.921	10.625	0.0	2,020.9

Products**Stage 1**

From Depth (ft): 0

To Depth (ft): 1116

Acids/Blends/Fluids :

Lead 1: 340 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 149 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 68

- + 0.25 lb/sack of LCL-7 (Preblend),
- + 2 % of Gypsum (Preblend),
- + 2 % of SMS (Preblend),
- + 2 % of CaCl₂ (Preblend),
- + 0.01 % of CDF-3L (Preblend)

Stage 2

From Depth (ft): 1116

To Depth (ft): 2035

Acids/Blends/Fluids :

Tail: 320 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 84 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 68

- + 2 % of CaCl₂ (Preblend),
- + 0.25 lb/sack of LCL-7 (Preblend),
- + 0.01 % of CDF-3L (Prehydrate)

Stage 3

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Extra Cement: 1 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 1 (bbl)

- + 2 % of CaCl₂ (Prehydrate)

Fluid & Cement Data						
Expected Cement Top: Surface						
Wellbore Fluid						
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@	
Water	--	8.340	--	--	Jul 07, 2015 14:19	
Water Based Mud	--	--	--	--	Aug 24, 2015 15:49	

Attachment & Tools			
Down Hole Tools			
<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>	
Guide Shoe	2,031.000	Third Party	
Guide/Float Shoe	1,977.800	Third Party	
Tubular Plugs			
<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>	
Rubber Top	9.625	Sanjel	

Units & Personnel							
Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449095	TRAILER	Utility Trailer	201191	PICKUP	1 Ton	05/10/2016 22:20	05/11/2016 04:15
445033	TRAILER	SCM Twin	745033	TRACTOR	Tandem - Tractor	05/10/2016 22:20	05/11/2016 04:15
446072	TRAILER	Bulker	746072	TRACTOR	Tandem - Tractor	05/10/2016 22:20	05/11/2016 04:15
Crew and Bonuses							
Employee	Start Shift	End Shift	Second Start Shift	Second End Shift			
Lopez, Armando (29064)	05/10/2016 22:20	05/11/2016 04:15					
Hall, Andrew J (25267)	05/10/2016 22:20	05/11/2016 04:15					
Cheal, Samuel (28315)							
Johnson, Jakob (30073)							
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Treatment Reports & Remarks

Treatment Reports & Remarks								
Treatment Report								
Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	May 10,2016 22:20	Arrive On Location		--	--	--	--	0.00
		Remarks: 340 sacks lead cement 320 sacks tail cement 100 sacks of top off on location						
2	May 10,2016 22:30	Crew Briefing (Rig in)		--	--	--	--	0.00
3	May 10,2016 23:20	Rig in Complete		--	--	--	--	0.00
4	May 11,2016 01:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	May 11,2016 01:23	Start - Fluid	Water	2.00	50.0	--	2.00	2.00
		Remarks: Fill lines						
6	May 11,2016 01:24	Pressure Test Start		--	3,000.0	--	--	0.00
7	May 11,2016 01:25	Pressure Test Complete		--	--	--	--	0.00
8	May 11,2016 01:26	Pump Spacer	Water	4.50	130.0	--	15.00	17.00
		Remarks: Red dye						
9	May 11,2016 01:32	Mix Cement	Control Set C	7.50	140.0	--	150.00	167.00
		Remarks: 340 sacks Density 12 Yield 2.46 Water 14.52						
10	May 11,2016 01:53	Mix Cement	0:1:0 Type III	7.50	200.0	--	85.00	252.00
		Remarks: Pumped 320 sacks Density 14.2 Yield 1.46 Water 7.36						
11	May 11,2016 02:11	Drop Plug		--	--	--	--	252.00
		Remarks: Sanjel plug						
12	May 11,2016 02:13	Displace Fluid	Water	8.00	150.0	--	153.00	405.00
		Remarks: Displacement reached cement at 70 bbls gone.						
13	May 11,2016 02:34	Bump Plug		--	--	--	--	405.00
		Remarks: Pressure before plug landed was 550 psi bump plug with 1200 psi						
14	May 11,2016 02:36	Check Float		--	--	--	--	405.00
		Remarks: Got 1 bbl of blow back						
15	May 11,2016 02:38	Pressure Test		--	1,500.0	--	--	405.00
		Remarks: Pressure tested casing for 15 min at 1500 psi						
16	May 11,2016 02:53	Stop		--	--	--	--	0.00
		Remarks: Got 70 bbls 159 sacks of cement to surface						
17	May 11,2016 03:00	Wash		--	--	--	--	0.00
18	May 11,2016 03:30	Rig Out		--	--	--	--	0.00
19	May 11,2016 04:00	Job Complete		--	--	--	--	0.00
20	May 11,2016 04:05	Pre-Departure Meeting		--	--	--	--	0.00
21	May 11,2016 04:15	Leave Location		--	--	--	--	0.00
Did Float Hold:		Yes						
Fluid Returns :		Yes						
Type :		Cement						
Volume (bbl) :		70						
Temperature (°F) :		80						
FDAS Functioning Correctly :		Yes						
Was the Program Followed As Per Design? :		Yes						



Treatment Reports & Remarks	
Material Transfer Sheet Number	
<u>Material Transfer Sheet Number</u>	
67315	
67316	

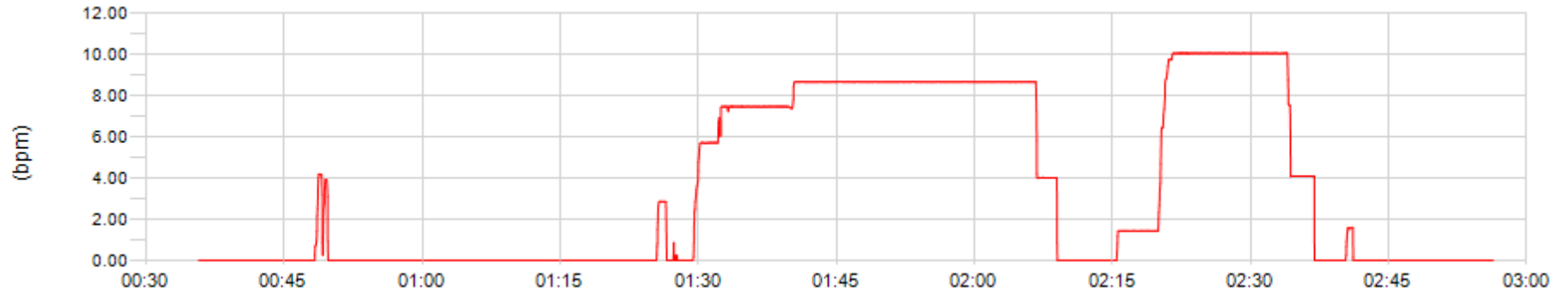


Client Whiting
Ticket No. 9211536
Location Sec8:T10N:R57W
Comments

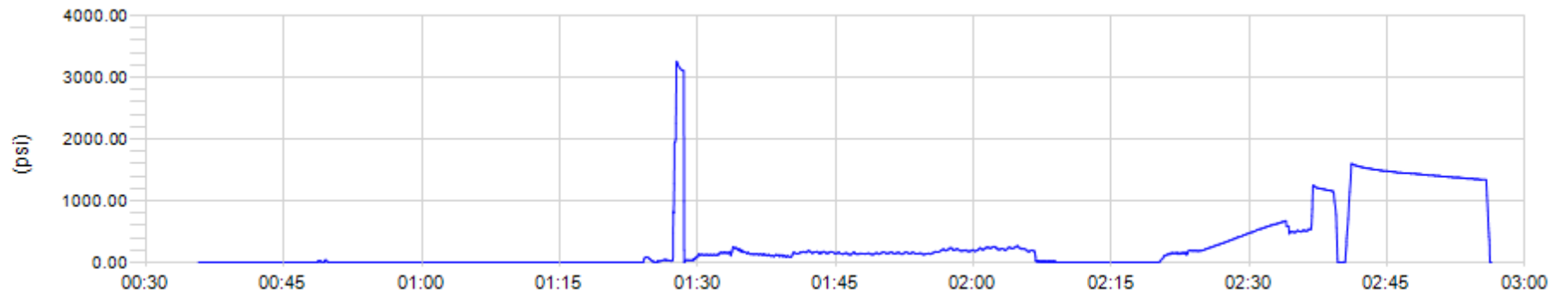
Client Rep Tyson
Well Name Horsetail 08C-1708
Job Type Surface Casing

Supervisor Armando Lopez
Unit No. 445033
Service District Ft Lupton Co
Job Date 05/11/2016

Unit 445033 Rate Total



Unit 445033 Pump Pressure



Unit 445033 Density

