



9209147

Client Name Whiting Petroleum Corp.	Well Name Horsetail 07E-1802	Rig Unit Drilling Co. 409	Job Date January 18,2016	Call Sheet 1064044
Client Representative BJ	Surface Well Location NW NW Sec 7:T10N:R57W	Down Hole Well Location	Job Type Production Casing	Lead Supervisor Hall, Andrew J (25267)

**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)
8.500	15.000	0.000	14,199.000	--	--

**Products****Stage 1**

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Scavenger: 125 Sacks of 50% Class III / 50% Poz (1-1-0 III), Density = 11.5 lb/gal, Volume Pumped = 50 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70

+ 0.3 % of ASM-3 (Preblend),

+ 0.5 % of CFL-10 (Preblend),

+ 2 % of FWC-2 (Preblend),

+ 0.1 % of LTR (Preblend),

+ 0.25 lb/sack of LCL-7 (Preblend)

**Stage 2**

From Depth (ft): 0

To Depth (ft): 5000

Acids/Blends/Fluids :

Lead 1: 670 Sacks of 50 % Class III / 50 % Poz, Density = 12 lb/gal, Volume Pumped = 234 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70

+ 0.3 % of ASM-3 (Preblend),

+ 0.5 % of CFL-10 (Preblend),

+ 2 % of FWC-2 (Preblend),

+ 0.1 % of LTR (Preblend),

+ 0.25 lb/sack of LCL-7 (Preblend)

**Stage 3**

From Depth (ft): 5000

To Depth (ft): 14142

Acids/Blends/Fluids :

Tail: 1300 Sacks of 65% Class G / 35% Poz (1-2-0 G), Density = 13.5 lb/gal, Volume Pumped = 433 (bbl)

Water Temperature(°F) = 50 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70

+ 0.3 % of ASM-3 (Preblend),

+ 0.5 % of CFL-10 (Preblend),

+ 25 % of Silica Flour (Preblend),

+ 4 % of FWC-2 (Preblend),

+ 0.1 % of LTR (Preblend),

+ 0.2 % of SPC-2 (Preblend),

+ 0.25 lb/sack of LCL-7 (Preblend)



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**Fluid & Cement Data**

Expected Cement Top: --

**Wellbore Fluid**

<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
Water	--	8.340	--	--	Jul 07, 2015 14:19
Water Based Mud	--	10.000	--	--	Jul 11, 2015 17:09

**Units & Personnel****Units**

<u>Truck Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Tractor Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Time On Location</u>	<u>Time Off Location</u>
201352	PICKUP	1 Ton	449084	TRAILER	Utility Trailer	01/18/2016 21:00	01/19/2016 06:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	01/18/2016 21:00	01/19/2016 06:30
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	01/18/2016 21:00	01/19/2016 06:30

**Crew and Bonuses**

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hall, Andrew J (25267)	01/18/2016 21:00	01/19/2016 06:30		
Hansen, Ted (29055)	01/18/2016 21:00	01/19/2016 06:30		
Cox, Brandon (27419)	01/18/2016 21:00	01/19/2016 06:30		
Carter, Henry (30641)				

**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	Jan 18,2016 21:00	Arrive On Location		--	--	--	--	0.00
2	Jan 18,2016 21:10	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jan 18,2016 22:00	Rig in Complete		--	--	--	--	0.00
4	Jan 19,2016 01:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jan 19,2016 01:50	Pressure Test Start	Water	1.00	6,000.0	--	3.00	3.00
6	Jan 19,2016 01:52	Pressure Test Complete		--	--	--	--	3.00
7	Jan 19,2016 01:53	Pump Preflush	Water	6.00	800.0	--	30.00	33.00
		Remarks: Mud flush						
8	Jan 19,2016 02:03	Pump Preflush	Water	6.00	500.0	--	30.00	63.00
		Remarks: Visweep						
9	Jan 19,2016 02:20	Pump Scavenger	50 % Class III / 50 % Poz	8.00	500.0	--	50.00	113.00
10	Jan 19,2016 02:26	Pump	50 % Class III / 50 % Poz	8.00	500.0	--	234.00	347.00
11	Jan 19,2016 02:56	Pump	65% Class G / 35% Poz (1-2-0 G)	8.00	500.0	--	433.00	780.00
12	Jan 19,2016 03:50	Stop		--	--	--	--	780.00
		Remarks: Wash lines						
13	Jan 19,2016 03:55	Drop Plug		--	--	--	--	780.00
14	Jan 19,2016 04:00	Displace Fluid	Water	6.00	1,500.0	--	314.00	1,094.00
15	Jan 19,2016 05:05	Bump Plug		--	2,000.0	--	--	1,094.00
16	Jan 19,2016 05:08	Check Float		--	--	--	--	1,094.00
17	Jan 19,2016 05:10	Rig Out		--	--	--	--	1,094.00
18	Jan 19,2016 06:00	Job Complete		--	--	--	--	1,094.00
		Remarks: AAR						
19	Jan 19,2016 06:30	Leave Location		--	--	--	--	1,094.00
Did Float Hold:		Yes						
Fluid Returns :		Yes						
Type :		Cement						
Volume (bbl) :		40						
Temperature (°F) :		20						
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>	
63324	
63325	
63326	
63327	
63328	
63329	

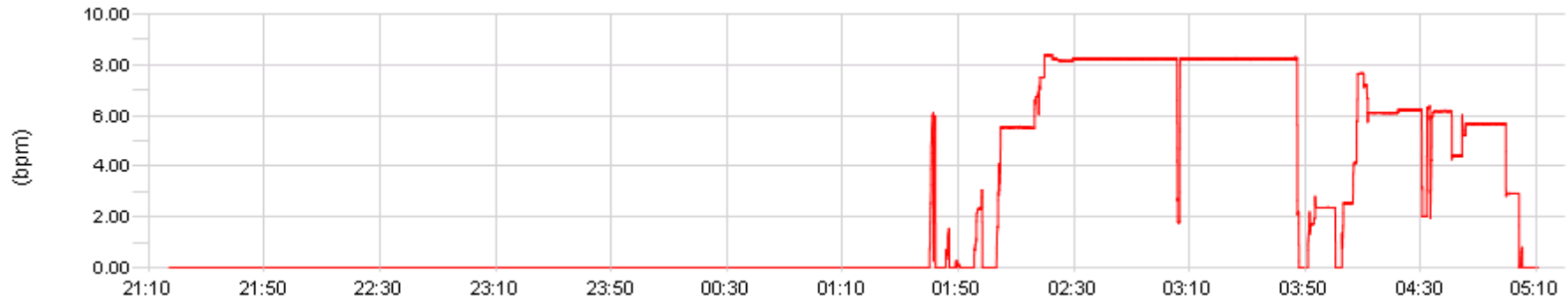


Client Whiting  
Ticket No. 9209147  
Location NW NW Sec 7:T10N:R57W  
Comments Pumped job according to prog.

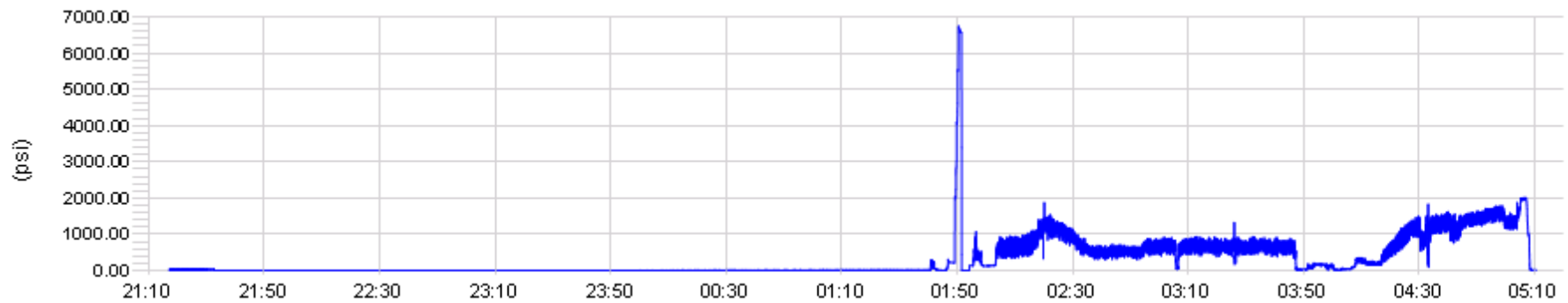
Client Rep Kenny  
Well Name HorseTail 07E-1802  
Job Type Production Casing

Supervisor Andy Hall  
Unit No. 445047  
Service District 505 Fort Lupton  
Job Date 01/18/2016

Unit 445047 Rate Total



Unit 445047 Pump Pressure



Unit 445047 Density

