



9209311

Client Name Whiting Petroleum Corp.	Well Name Horsetail Federal 08C-1739 PHC	Rig Unit Drilling Co. 409	Job Date May 30, 2016	Call Sheet 1066281
Client Representative Mr. Kenny Ray Wilkerson	Surface Well Location SW NE Sec 8: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):	---	@	--		
<b>Open Hole</b>					
	<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>
	8.500	15.000	0.000	16,200.000	--
<b>Casing</b>					
	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Collapse Pressure</u>	<u>Internal Yield Pressure</u>
	(in)	(lb/ft)		(psi)	(psi)
	5.500	20.000	P-110	11,080.0	12,640.0
					<u>Capacity</u>
					(bbl)
					357.95
					<u>I.D.</u>
					(in)
					4.778
					<u>O.D.</u>
					(in)
					6.050
					<u>Depth From</u>
					(ft)
					0.0
					<u>Depth To</u>
					(ft)
					16,141.0

9209311

**Products****Stage 1**

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Scavenger: 105 Sacks of 50 % Type III / 50 % Poz, Density = 11 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 Polyflake (Preblend),  
 + 0.01 gal/bbl of CDF-3L (Add On The Fly)

**Stage 2**

From Depth (ft): 0

To Depth (ft): 2000

Acids/Blends/Fluids :

Lead 1: 275 Sacks of 50 % Type III / 50 % Poz, Density = 12 lb/gal, Volume Pumped = 96 (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 Polyflake (Preblend),  
 + 0.01 gal/bbl of CDF-3L (Add On The Fly)

**Stage 3**

From Depth (ft): 2000

To Depth (ft): 5000

Acids/Blends/Fluids :

Lead 2: 405 Sacks of 50 % Type III / 50 % Poz, Density = 12 lb/gal, Volume Pumped = 141.4 (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 Polyflake (Preblend),  
 + 0.2 % of SPC-2 (Preblend),  
 + 0.01 gal/bbl of CDF-3L (Add On The Fly)

**Stage 4**

From Depth (ft): 5000

To Depth (ft): 16141

Acids/Blends/Fluids :

Tail: 1970 Sacks of 65% Class G / 35% Poz (1-2-0 G), Density = 13.5 lb/gal, Volume Pumped = 526.3 (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),  
 + 0.2 % of SPC-2 (Preblend),  
 + 0.25 lb/sack of Polyflake (Preblend),  
 + 0.01 gal/bbl of CDF-3L (Add On The Fly)



9209311

**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

**Units & Personnel**

Units	Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	05/30/2016 00:00	05/30/2016 10:00	
445033	TRAILER	SCM Twin	745033	TRACTOR	Tandem - Tractor	05/30/2016 00:00	05/30/2016 10:00	
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	05/30/2016 00:00	05/30/2016 10:00	
446201	TRAILER	Bulker	746201	TRACTOR	Tandem - Tractor	05/30/2016 00:00	05/30/2016 10:00	

**Crew and Bonuses**

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hansen, Ted (29055)				
Cheal, Samuel (28315)				
Daylong, Eric (28076)				
Hall, Andrew J (25267)	05/30/2016 00:00	05/30/2016 10:00		

**Treatment Reports & Remarks**



# Cementing Service Report

9209311

## 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 30, 2016 00:00	Arrive On Location		--	--	--	--	0.00
2	May 30, 2016 00:15	Crew Briefing (Rig in)		--	--	--	--	0.00
3	May 30, 2016 01:15	Rig in Complete		--	--	--	--	0.00
4	May 30, 2016 05:30	Crew Briefing (Pre Job)		--	--	--	3.00	3.00
5	May 30, 2016 06:25	Pressure Test Start	Water	1.00	5,000.0	--	--	3.00
6	May 30, 2016 06:27	Pressure Test Complete		--	--	--	30.00	33.00
7	May 30, 2016 06:28	Pump Preflush	Water	6.00	1,000.0	--	--	--
		Remarks: Mud flush					30.00	63.00
8	May 30, 2016 06:33	Pump Preflush	Water	6.00	1,200.0	--	--	--
		Remarks: Visweep					50.00	113.00
9	May 30, 2016 06:38	Pump	50 % Type III / 50 % Poz	9.00	1,000.0	--	--	--
							96.00	209.00
10	May 30, 2016 06:42	Pump	50 % Type III / 50 % Poz	9.00	900.0	--	--	--
							141.40	350.40
11	May 30, 2016 06:53	Pump	50 % Type III / 50 % Poz	9.00	1,000.0	--	--	--
							526.30	876.70
12	May 30, 2016 07:10	Pump	65% Class G / 35% Poz (1-2-0 G)	9.00	700.0	--	--	--
							--	876.70
13	May 30, 2016 07:15	Stop		--	--	--	--	--
		Remarks: Cement head quit rotating					10.00	886.70
14	May 30, 2016 08:00	Wash	Water	1.00	100.0	--	--	--
		Remarks: Wash lines					--	886.70
15	May 30, 2016 08:05	Drop Plug		--	--	--	358.37	1,245.07
16	May 30, 2016 08:06	Displace Fluid	Water	12.00	1,500.0	--	--	1,245.07
17	May 30, 2016 08:53	Bump Plug		--	2,200.0	--	--	1,245.07
18	May 30, 2016 08:55	Check Float		--	--	--	--	1,245.07
19	May 30, 2016 09:30	Job Complete		--	--	--	--	1,245.07
20	May 30, 2016 10:00	Leave Location		--	--	--	--	--

Did Float Hold: Yes  
 Fluid Returns: Yes  
 Type: Cement  
 Volume (bbl): 40  
 Temperature (°F): 90  
 FDAS Functioning Correctly: Yes  
 Was the Program Followed As Per Design?: Yes



9209311

**Treatment Reports & Remarks**

**Material Transfer Sheet Number**

Material Transfer Sheet Number

56976

67371

67372

67373

67374

67375



Client  
Ticket No.  
Location  
Comments

Whiting

9209311

SW NE Sec8:T10N:R57W

Pumped job according to prog.

Client Rep

Well Name

Job Type

Kenny

Horsetail Federal 08C-1739 PHC

Production Casing

Supervisor

Unit No.

Service District

Job Date

Andy Hall

445052

505 Fort Lupton

05/30/2016

