



9209025

Client Name Whiting Petroleum Corp.	Well Name Horsetail 07E-0601	Rig Unit Drilling Co. 409	Job Date January 03,2016	Call Sheet 1063556
Client Representative BJ	Surface Well Location NW NW Sec 7:T10N:R57W	Down Hole Well Location	Job Type Production Casing	Lead Supervisor Maguire, Matthew (26325)

**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	--	2,008.000	13,528.000	--	--

Casing	Size	Weight	Grade	Collapse Pressure	Internal Yield Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
	(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	9.625	36.000	---	--	--	--	--	--	0.0	2,008.0
	5.500	20.000	P-110	11,080.0	12,640.0	299.74	4.778	6.050	0.0	13,516.0

**Products****Stage 1**

From Depth (ft):	0
To Depth (ft):	5197

## Acids/Blends/Fluids :

Lead 1: 760 Sacks of 50% Class III / 50% Poz (1-1-0 III), Density = 12.5 lb/gal, Volume Pumped = 235 (bbl)  
Water Temperature(°F) = 40 , Bulk Temperature(°F) = 40 , Slurry Temperature(°F) = 60  
+ 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):	5197
To Depth (ft):	13516

## Acids/Blends/Fluids :

Tail: 1200 Sacks of 65% Class C / 35% Poz (1-2-0 Class C), Density = 13.5 lb/gal, Volume Pumped = 400 (bbl)  
Water Temperature(°F) = 40 , Bulk Temperature(°F) = 40 , Slurry Temperature(°F) = 60  
+ 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)

### 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	--	10.000	--	--	Jul 11, 2015 17:09

### Attachment & Tools

#### Down Hole Tools

Tool Type	Depth (ft)	Supplier
Guide Shoe	13,516.000	Third Party
Guide/Float Shoe	13,467.000	Third Party

### Units & Personnel

#### Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201017	PICKUP	1 Ton	449087	TRAILER	Utility Trailer	01/03/2016 20:20	01/04/2016 12:45
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	01/03/2016 20:20	01/04/2016 12:45
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	01/03/2016 20:20	01/04/2016 12:45

#### Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Lopez, Armando (29064)	01/03/2016 20:20	01/04/2016 12:45		
Scott, Derek (29603)	01/03/2016 20:20	01/04/2016 12:45		
Laeger, Kacey (25046)	01/03/2016 20:20	01/04/2016 12:45		
Decenick, Jorden (30684)	01/03/2016 20:20	01/04/2016 12:45		

### Treatment Reports & Remarks

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##### 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 03,2016 20:20	Arrive On Location		--	--	--	--	0.00
		Remarks: Company man requested cement crew on location at 2100 01-03-2016						
2	Jan 03,2016 20:30	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jan 03,2016 22:40	Rig in Complete		--	--	--	--	0.00
4	Jan 04,2016 05:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jan 04,2016 06:20	Start - Fluid	Water	2.00	--	--	2.00	2.00
		Remarks: Fill lines						
6	Jan 04,2016 06:25	Pressure Test Start		--	6,000.0	--	--	0.00
7	Jan 04,2016 06:28	Pressure Test Complete		--	--	--	--	0.00
8	Jan 04,2016 06:30	Pump Spacer	Water	5.00	900.0	--	30.00	32.00
		Remarks: Mud Flush						
9	Jan 04,2016 06:35	Pump Spacer	Water	5.00	700.0	--	30.00	62.00
		Remarks: Visweep						
10	Jan 04,2016 06:41	Mix Cement	50% Class III / 50% Poz (1-1-0 III)	7.50	600.0	--	235.00	297.00
		Remarks: Pumped 760 sacks Density 12.5 Yield 1.73 Water 9.25. Powder of pump 51 changed to back up pump						
11	Jan 04,2016 08:44	Mix Cement	65% Class C / 35% Poz (1-2-0 Class C)	8.00	300.0	--	400.00	697.00
		Remarks: Pumped 1200 sacks Density 13.5 Yield 1.87 Water 9.21						
12	Jan 04,2016 09:50	Drop Plug		--	--	--	--	697.00
		Remarks: Sanjel plug						
13	Jan 04,2016 09:51	Displace Fluid	Water	8.00	350.0	--	299.00	996.00
		Remarks: Stopped pumping at 299 bbls gone on stap water. Let company man know he had us pump 1/2 bbl and stop.						
14	Jan 04,2016 11:10	Bump Plug		--	--	--	--	996.00
		Remarks: Did not bump Plug.						
15	Jan 04,2016 11:12	Check Float		--	--	--	--	996.00
		Remarks: Got 1 bbl back						
16	Jan 04,2016 11:15	Stop		--	--	--	--	0.00
17	Jan 04,2016 11:20	Wash		--	--	--	--	0.00
18	Jan 04,2016 11:40	Rig Out		--	--	--	--	0.00
19	Jan 04,2016 12:20	Job Complete		--	--	--	--	0.00
20	Jan 04,2016 12:30	Pre-Departure Meeting		--	--	--	--	0.00
21	Jan 04,2016 12:45	Leave Location		--	--	--	--	0.00





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**Treatment Reports & Remarks**

Did Float Hold: Yes  
Fluid Returns : Yes  
Type : Cement  
Volume (bbl) : 65  
Temperature (°F) : 70  
FDAS Functioning Correctly : Yes  
Was the Program Followed As Per Design? : Yes

**Material Transfer Sheet Number**Material Transfer Sheet Number

63202

63210

63208

63209

63201

63203



Client	Whiting	Kenya	Supervisor	Armando Lopez
Ticket No.	9209025	Horsetail O7E-0601	Unit No.	445052
Location	Sec7:T10N:R57W	Production Casing	Service District	Ft Lupton Co
Comments			Job Date	01/04/2016

