



9209144

Client Name Whiting Petroleum Corp.	Well Name Horsetail 07E - 0634	Rig Unit Drilling Co. 409	Job Date December 24,2015	Call Sheet 1063473
Client Representative Kenny	Surface Well Location SE NW Sec 7:T10N:R57W	Down Hole Well Location	Job Type Surface 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)
13.500	30.000	0.000	2,023.000	--	--

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	J-55	2,020.0	3,520.0	155.28	8.921	10.625	0.0	2,008.6

Products**Stage 1**

From Depth (ft):	0
To Depth (ft):	1500

Acids/Blends/Fluids :

Lead 1: 390 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 170 (bbl)
Water Temperature(°F) = 40 , Bulk Temperature(°F) = 40 , Slurry Temperature(°F) = 60
+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 2

From Depth (ft):	1500
To Depth (ft):	2008.6

Acids/Blends/Fluids :

Tail: 230 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 62 (bbl)
Water Temperature(°F) = 40 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 60
+ 2 % of CaCl₂ (Preblend),
+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 3

From Depth (ft):	
To Depth (ft):	

Acids/Blends/Fluids :

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/Float Shoe	2,008.600	Third Party

Tubular Plugs

<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	9.625	Sanjel

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>
449095	TRAILER	Utility Trailer	201401	PICKUP	1 Ton	12/23/2015 10:00	12/24/2015 02:00
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	12/23/2015 10:00	12/24/2015 02:00

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)	12/23/2015 10:00	12/24/2015 02:00		
Prigmore, Dominic (27161)	12/23/2015 10:00	12/24/2015 02:00		
Leue, David (28684)	12/23/2015 10:00	12/24/2015 02:00		
Pyfer, Kevin (29802)	12/23/2015 10:00	12/24/2015 02:00		

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	Dec 23,2015 22:00	Arrive On Location		--	--	--	--	0.00	
2	Dec 23,2015 22:15	Crew Briefing (Rig in)		--	--	--	--	0.00	
3	Dec 23,2015 23:00	Rig in Complete		--	--	--	--	0.00	
4	Dec 23,2015 23:05	Crew Briefing (Pre Job)		--	--	--	--	0.00	
5	Dec 23,2015 23:45	Pressure Test Start	Water	1.00	3,000.0	--	3.00	3.00	
6	Dec 23,2015 23:47	Pressure Test Complete		--	--	--	--	3.00	
7	Dec 23,2015 23:48	Establish Circulation	Water	6.00	400.0	--	20.00	23.00	
8	Dec 23,2015 23:52	Pump	Control Set C	8.00	400.0	--	170.00	193.00	
9	Dec 24,2015 00:10	Pull Into Neutral/Retainer	0:1:0 Type III	8.00	500.0	--	62.00	255.00	
10	Dec 24,2015 00:30	Drop Plug		--	--	--	--	255.00	
11	Dec 24,2015 00:35	Displace Fluid	Water	7.00	700.0	--	150.00	405.00	
12	Dec 24,2015 00:57	Bump Plug		--	1,200.0	--	--	405.00	
13	Dec 24,2015 01:00	Check Float		--	--	--	--	405.00	
14	Dec 24,2015 01:05	Rig Out		--	--	--	--	405.00	
15	Dec 24,2015 01:45	Job Complete		--	--	--	--	405.00	
16	Dec 24,2015 02:00	Leave Location		--	--	--	--	405.00	
Did Float Hold: Yes Fluid Returns : Yes Type : Cement Volume (bbl) : 60 Temperature (°F) : 90 FDAS Functioning Correctly : Yes Was the Program Followed As Per Design? : Yes									
Material Transfer Sheet Number <u>Material Transfer Sheet Number</u> 63150 63151 63152									



Client Whiting
Ticket No. 9209144
Location SE NE Sec 7:T10N:R57W
Comments Pumped job according to prog

Client Rep Kenny
Well Name Horsetail 07E-0634
Job Type Surface Casing

Supervisor Andy Hall
Unit No. 745070
Service District 505 Fort Lupton
Job Date 12/23/2015

