

Client Name Whiting Petroleum Corp.	Well Name Horsetail 07G - 0610	Rig Unit Drilling Co. 409	Job Date April 07,2016	Call Sheet 1065916
Client Representative BJ	Surface Well Location Sec 18:T10N:R57W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Johnson, Quintin (23945)

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	--	0.000	2,024.000	--	--

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	155.91	8.921	10.625	0.0	2,016.7

Products

Stage 1

From Depth (ft): 0
To Depth (ft): 1075.2

Acids/Blends/Fluids :

Lead 1: 340 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 149 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 65
+ 0.25 lb/sack of LCL-7 (Preblend),
+ 2 % of Gypsum (Preblend),
+ 2 % of SMS (Preblend),
+ 2 % of CaCl2 (Preblend)

Stage 2

From Depth (ft): 1075.2
To Depth (ft): 2016.7

Acids/Blends/Fluids :

Tail: 340 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 88.4 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 65
+ 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: --

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****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>
201017	PICKUP	1 Ton	449083	TRAILER	Utility Trailer	04/07/2016 19:00	04/08/2016 10:00
445046	TRAILER	SCM Twin	745046	TRACTOR	Tandem - Tractor	04/07/2016 19:00	04/08/2016 10:00
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	04/07/2016 19:00	04/08/2016 10:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Maguire, Matthew (26325)	04/07/2016 19:00	04/08/2016 10:00		
Pigg, Martin (28301)				
Johnson, Quintin (23945)	04/07/2016 19:00	04/08/2016 10:00		
Dunsbergen, Scott (29737)				

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	Apr 08,2016 05:00	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived on time						
2	Apr 08,2016 05:10	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Talked about site hazards and how to mitigate them, spotted trucks and rigged in.						
3	Apr 08,2016 07:15	Rig in Complete		--	--	--	--	0.00
		Remarks: Gathered for safety meeting						
4	Apr 08,2016 07:25	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Talked about the job scope and safety concerns.						
5	Apr 08,2016 07:38	Pressure Test Start	Water	2.00	104.0	--	2.00	2.00
		Remarks: Filled our lines with fresh for pressure testing						
6	Apr 08,2016 07:40	Pressure Test	Water	0.00	3,000.0	--	0.00	2.00
		Remarks: Pressured lines and they held good						
7	Apr 08,2016 07:42	Pressure Test Complete		--	--	--	--	2.00
		Remarks: Opened up to pump job						
8	Apr 08,2016 07:43	Pump Spacer	Water	2.00	104.0	--	20.00	22.00
		Remarks: Pumped our fresh water spacer						
9	Apr 08,2016 07:51	Mix Cement	Control Set C	7.00	240.0	--	149.00	171.00
		Remarks: Mixed leed at 12# denstiy (Yield at 2.46 and Water Requirement at 14.52)						
10	Apr 08,2016 08:13	Mix Cement	0:1:0 Type III	7.00	240.0	--	88.40	259.40
		Remarks: Mixed tail at 340sks or 88.4bbbls at 14.2 density (Yield at 1.46 and Water Requirement at 7.36)						
11	Apr 08,2016 08:35	Drop Plug		--	--	--	--	259.40
		Remarks: Dropped Whittings 9.625 rubber plug						
12	Apr 08,2016 08:37	Pump Displacement	Water Based Mud	7.00	600.0	--	152.50	411.90
		Remarks: Displaced plug to float collar						
13	Apr 08,2016 08:58	Bump Plug	Water Based Mud	2.00	1,200.0	--	152.50	564.40
		Remarks: Bumped the plug going 2bbbls per minute at 500# over treating pressure						
14	Apr 08,2016 09:01	Check Float	Water Based Mud	--	--	--	--	564.40
		Remarks: Got .5bbbls back on check floats						
15	Apr 08,2016 09:02	Stop		--	--	--	--	564.40
		Remarks: Stopped and rigged out floor and out trucks						
16	Apr 08,2016 08:39	Wash		2.00	200.0	--	--	564.40
		Remarks: Washed up mixside on top of the plug						
17	Apr 08,2016 09:20	Rig Out		--	--	--	--	564.40
		Remarks: Rigged out our trucks						
18	Apr 08,2016 09:50	Job Complete		--	--	--	--	564.40
		Remarks: Walk around trucks and check loads and pins						
19	Apr 08,2016 10:00	Leave Location		--	--	--	--	564.40
		Remarks: Go back to Sanjel Yard						



Treatment Reports & Remarks

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 80.6
Temperature (°F) : 65
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes



Client Whiting
Ticket No. 9211580
Location Sec 18: T10N: R57W
Comments Pump As Per Design

Client Rep Kenny
Well Name Horsetail 07G-0610
Job Type Surface Casing

Supervisor Quintin Elmer Johnson
Unit No. 445046
Service District Fort Lupton, Co.
Job Date 04/08/2016

