



Cementing Service Report

9209307

Client Name Whiting Petroleum Corp.	Well Name Horsetail 08D-1735	Rig Unit Drilling Co. 409	Job Date May 02, 2016	Call Sheet 1066074
Client Representative Tyson	Surface Well Location SW NE Sec 8: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	2,035.000	--	--

Casing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
9.625	36.000	J-55	2,020.0	3,520.0	157.32	8.921	10.625	0.0	2,035.0

Products

Stage 1

From Depth (ft): 0
To Depth (ft): 1300

Acids/Blends/Fluids :

Lead 1: 149 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 340 (bbl)
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70
+ 0.25 lb/sack of LCL-7 (Preblend),
+ 2 % of Gypsum (Preblend),
+ 2 % of SMS (Preblend),
+ 2 % of CaCl₂ (Preblend),
+ 0.01 % of CDF-3L (Preblend)

Stage 2

From Depth (ft): 1300
To Depth (ft): 2035

Acids/Blends/Fluids :

Tail: 85.8 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 330 (bbl)
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70
+ 2 % of CaCl₂ (Preblend),
+ 0.25 lb/sack of LCL-7 (Preblend),
+ 0.01 % of CDF-3L (Prehydrate)

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		
Tubular Plugs		
Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Sanjel

Units & Personnel							
Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201025	PICKUP	1 Ton	449083	TRAILER	Utility Trailer	05/02/2016 07:16	05/02/2016 15:00
445044	TRAILER	SCM Twin	745044	TRACTOR	Tandem - Tractor	05/02/2016 07:16	05/02/2016 15:00
446171	TRAILER	Bulker	746171	TRACTOR	Tandem - Tractor	05/02/2016 07:16	05/02/2016 15:00
446172	TRAILER	Bulker	746172	TRACTOR	Tandem - Tractor	05/02/2016 07:16	05/02/2016 15:00

Crew and Bonuses				
Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hall, Andrew J (25267)	05/02/2016 07:00	05/02/2016 15:00		
Doran, Benjamin (27933)	05/02/2016 07:00	05/02/2016 15:00		
Peterson, Ryan (28158)	05/02/2016 07:00	05/02/2016 15:00		
Pyfer, Kevin (29802)	05/02/2016 07:00	05/02/2016 15:00		



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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 02,2016 07:00	Arrive On Location		--	--	--	--	0.00	
2	May 02,2016 07:15	Crew Briefing (Rig in)		--	--	--	--	0.00	
3	May 02,2016 08:00	Rig in Complete		--	--	--	--	0.00	
4	May 02,2016 12:00	Crew Briefing (Pre Job)		--	--	--	--	0.00	
5	May 02,2016 12:40	Pressure Test Start	Water	1.00	3,000.0	--	3.00	3.00	
6	May 02,2016 12:42	Pressure Test Complete		--	--	--	--	3.00	
7	May 02,2016 12:43	Establish Circulation	Water	8.00	200.0	--	20.00	23.00	
8	May 02,2016 12:50	Pump	Control Set C	8.00	200.0	--	149.00	172.00	
9	May 02,2016 13:12	Pump	0:1:0 Type III	8.00	200.0	--	85.80	257.80	
10	May 02,2016 13:33	Drop Plug		--	--	--	--	257.80	
11	May 02,2016 13:35	Displace Fluid	Water	8.00	400.0	--	153.00	410.80	
12	May 02,2016 13:55	Bump Plug		--	--	--	--	410.80	
13	May 02,2016 13:57	Check Float		--	--	--	--	410.80	
14	May 02,2016 13:58	Hold Back Pressure	Water	1.00	1,500.0	--	3.00	413.80	
		Remarks: Casing test							
15	May 02,2016 14:10	Rig Out		--	--	--	--	413.80	
16	May 02,2016 14:30	Job Complete		--	--	--	--	413.80	
		Remarks: AAR							
17	May 02,2016 15:00	Leave Location		--	--	--	--	413.80	
Did Float Hold: Yes									
Fluid Returns : Yes									
Type : Cement									
Volume (bbl) : 70									
Temperature (°F) : 90									
FDAS Functioning Correctly : Yes									
Was the Program Followed As Per Design? : Yes									
Material Transfer Sheet Number									
Material Transfer Sheet Number									
67286									
67287									



Client Whiting
Ticket No. 9209307
Location SW NE Sec 8:T10N:R57W
Comments Pumped job according to prog.

Client Rep Kenny
Well Name Horsetail 08D-1735
Job Type Surface Casing

Supervisor Andy Hall
Unit No. 445033
Service District 505Fort Lupton
Job Date 05/02/2016

