



9209312

Client Name Whiting Petroleum Corp.	Well Name Horsetail 08C - 1738	Rig Unit Drilling Co. 409	Job Date May 31,2016	Call Sheet 1066282
Client Representative Tyson	Surface Well Location SW NE Sec 8:T10N:R57W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Klosterman, Austin (27698)

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

<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>	<u>TVD To (ft)</u>
13.500	30.000	0.000	2,040.000	--	--

Casing

<u>Size</u> <u>(in)</u>	<u>Weight</u> <u>(lb/ft)</u>	<u>Grade</u>	<u>Collapse Pressure</u> <u>(psi)</u>	<u>Internal Yield Pressure</u> <u>(psi)</u>	<u>Capacity</u> <u>(bbl)</u>	<u>I.D.</u> <u>(in)</u>	<u>O.D.</u> <u>(in)</u>	<u>Depth From</u> <u>(ft)</u>	<u>Depth To</u> <u>(ft)</u>
9.625	36.000	J-55	2,020.0	3,520.0	156.78	8.921	10.625	0.0	2,028.0

Products**Stage 1**

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

Acids/Blends/Fluids :

Lead 1: 340 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 149 (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): 2040

Acids/Blends/Fluids :

Tail: 320 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 83.2 (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						
<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>	
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>
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	05/31/2016 05:00	05/31/2016 10:00
445033	TRAILER	SCM Twin	745033	TRACTOR	Tandem - Tractor	05/31/2016 05:00	05/31/2016 10:00
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	05/31/2016 05:00	05/31/2016 10:00
446201	TRAILER	Bulker	746201	TRACTOR	Tandem - Tractor	05/31/2016 05:00	05/31/2016 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>
Scott, Derek (24184)				
Cheal, Samuel (28315)				
Daylong, Eric (28076)				
Hall, Andrew J (25267)	05/31/2016 05:00	05/31/2016 10:00		

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	May 31,2016 05:00	Arrive On Location		--	--	--	--	0.00
2	May 31,2016 05:15	Crew Briefing (Rig in)		--	--	--	--	0.00
3	May 31,2016 06:00	Rig in Complete		--	--	--	--	0.00
4	May 31,2016 07:00	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	May 31,2016 07:44	Pressure Test Start	Water	1.00	3,000.0	--	3.00	0.00
6	May 31,2016 07:46	Pressure Test Complete		--	--	--	--	0.00
7	May 31,2016 07:47	Establish Circulation	Water	9.00	300.0	--	30.00	0.00
8	May 31,2016 07:52	Pump	Control Set C	9.00	500.0	--	149.00	149.00
9	May 31,2016 08:10	Pump	0:1:0 Type III	9.00	400.0	--	83.20	232.20
10	May 31,2016 08:25	Drop Plug		--	--	--	--	232.20
11	May 31,2016 08:27	Displace Fluid	Water	9.00	700.0	--	153.36	385.56
12	May 31,2016 08:47	Bump Plug		--	1,500.0	--	--	385.56
13	May 31,2016 08:49	Check Float		--	--	--	--	385.56
14	May 31,2016 08:50	Hold Back Pressure		--	1,500.0	--	--	385.56
15	May 31,2016 09:20	Rig Out		--	--	--	--	385.56
16	May 31,2016 09:50	Job Complete		--	--	--	--	385.56
17	May 31,2016 10:00	Leave Location		--	--	--	--	385.56

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 30

Temperature (°F) : 90

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

56979

56980