



9211517

Client Name Whiting Petroleum Corp.	Well Name Horsetail 08B - 1712	Rig Unit Drilling Co. 409	Job Date June 10,2016	Call Sheet 1066353
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	2,045.000	--	--

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	153.22	8.921	10.625	0.0	1,982.0

Products**Stage 1**

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

Acids/Blends/Fluids :

Lead 1: 340 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 149 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 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): 1982
To Depth (ft): 1300

Acids/Blends/Fluids :

Tail: 269 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 70 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 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 :



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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	Client

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	201150	PICKUP	1 Ton	06/10/2016 00:47	06/10/2016 08:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	06/10/2016 00:47	06/10/2016 08:30

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)	06/10/2016 02:00	06/10/2016 08:30		
Doran, Benjamin (27933)	06/10/2016 02:00	06/10/2016 08:30		
Devine, Richard (29733)	06/10/2016 02:00	06/10/2016 08:30		
Melgarejo Herrera, Eduardo (26606)	06/10/2016 02:00	06/10/2016 08:30		

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	Jun 10,2016 02:00	Arrive On Location		--	--	--	--	0.00
2	Jun 10,2016 02:05	Tailgate Meeting		--	--	--	--	0.00
		Remarks: JSA.						
3	Jun 10,2016 02:20	Crew Briefing (Rig in)		--	--	--	--	0.00
4	Jun 10,2016 04:50	Rig in Complete		--	--	--	--	0.00
5	Jun 10,2016 04:55	Crew Briefing (Pre Job)		--	--	--	--	0.00
6	Jun 10,2016 05:00	STEACS Briefing		--	--	--	--	0.00
7	Jun 10,2016 05:10	Sign-off on Safety		--	--	--	--	0.00
8	Jun 10,2016 05:12	Start - Fluid	Water	3.00	260.0	--	2.00	2.00
		Remarks: Filled lines.						
9	Jun 10,2016 05:13	Pressure Test Start	Water	--	3,000.0	--	--	2.00
10	Jun 10,2016 05:14	Pressure Test Complete	Water	--	3,000.0	--	--	2.00
		Remarks: All lines held pressure.						
11	Jun 10,2016 05:15	Pump Preflush	Water	7.50	400.0	--	20.00	22.00
		Remarks: 10 bbls with red indicator dye.						
12	Jun 10,2016 05:18	Mix Cement	Control Set C	8.00	300.0	--	149.00	171.00
		Remarks: LEAD: WR=14.52, Y=2.46, D=12.0, Sk Wt=99.90, 117.5 bbls mix water.						
13	Jun 10,2016 05:35	Mix Cement	0:1:0 Type III	8.00	200.0	--	70.00	241.00
		Remarks: TAIL: WR=7.36, Y=1.46, D=14.2, Sk Wt=96.13, 47.0 bbls mix water.						
14	Jun 10,2016 06:00	Stop		--	--	--	--	241.00
15	Jun 10,2016 06:01	Drop Plug	Water	--	--	--	--	241.00
16	Jun 10,2016 06:02	Displace Fluid	Water	9.20	1,780.0	--	153.20	394.20
17	Jun 10,2016 06:22	Bump Plug	Water	--	1,780.0	--	153.20	547.40
		Remarks: Bumped at 500psi over.						
18	Jun 10,2016 06:22	Pressure Test	Water	--	1,780.0	--	--	547.40
		Remarks: Casing test, test was good.						
19	Jun 10,2016 06:37	Check Float	Water	--	--	--	--	547.40
		Remarks: Float held, 1.5 bbls back.						
20	Jun 10,2016 06:45	Stop		--	--	--	--	547.40
21	Jun 10,2016 02:00	Wash	Water	1.50	100.0	--	20.00	547.40
22	Jun 10,2016 07:30	Rig Out		--	--	--	--	547.40
		Remarks: Revisit JSA.						
23	Jun 10,2016 08:15	Pre-Departure Meeting		--	--	--	--	547.40
		Remarks: Revisit JSA, Journey Management and AAR.						
24	Jun 10,2016 08:05	Job Complete		--	--	--	--	547.40
25	Jun 10,2016 08:30	Leave Location		--	--	--	--	547.40
		Remarks: Leave location safely.						

Treatment Reports & Remarks

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 55
Temperature (°F) : 80
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

56480

56478