

Client Name Whiting Petroleum Corp.	Well Name Horsetail 07E-1801	Rig Unit Drilling Co. 409	Job Date January 11, 2016	Call Sheet 1063806
Client Representative BJ	Surface Well Location SE NW Sec 7:T10N:R57W	Down Hole Well Location	Job Type Production Casing	Lead Supervisor Laeger, Kacey (25046)

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)
	8.500	--	2,039.000	13,919.000	--	--

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)
	5.500	20.000	P-110	11,080.0	12,640.0	308.67	4.778	6.050	0.0	13,919.0

Products

Stage 1

From Depth (ft): 0

To Depth (ft): 0

Acids/Blends/Fluids :

Scavenger: 125 Sacks of 50% Class III / 50% Poz (1-1-0 III), Density = 11.5 lb/gal, Volume Pumped = 50 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 25 , Slurry Temperature(°F) = 40

+ 0.3 % of ASM-3 (Preblend),

+ 0.5 % of CFL-10 (Preblend),

+ 2 % of FWC-2 (Preblend),

+ 0.1 % of LTR (Preblend),

+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 2

From Depth (ft): 0

To Depth (ft): 3649

Acids/Blends/Fluids :

Lead 1: 680 Sacks of 50 % Class III / 50 % Poz, Density = 12.5 lb/gal, Volume Pumped = 239 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 25 , Slurry Temperature(°F) = 40

+ 0.3 % of ASM-3 (Preblend),

+ 0.5 % of CFL-10 (Preblend),

+ 2 % of FWC-2 (Preblend),

+ 0.1 % of LTR (Preblend),

+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 3

From Depth (ft): 3649

To Depth (ft): 13919

Acids/Blends/Fluids :

Tail: 1260 Sacks of 65% Class G / 35% Poz (1-2-0 G), Density = 13.5 lb/gal, Volume Pumped = 420 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 25 , Slurry Temperature(°F) = 40

+ 0.3 % of ASM-3 (Preblend),

+ 0.5 % of CFL-10 (Preblend),

+ 25 % of Silica Flour (Preblend),

+ 4 % of FWC-2 (Preblend),

+ 0.1 % of LTR (Preblend),

+ 0.2 % of SPC-2 (Preblend),

+ 0.25 lb/sack of LCL-7 (Preblend)

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	--	10.000	--	--	Jul 11, 2015 17:09

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>
200925	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	01/11/2016 18:00	01/12/2016 02:40
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	01/11/2016 18:00	01/12/2016 02:40
445044	TRAILER	SCM Twin	745044	TRACTOR	Tandem - Tractor	01/11/2016 18:00	01/12/2016 02:40
201380	PICKUP	1/2 Ton				01/11/2016 18:00	01/12/2016 02:40
449127	TRAILER	1600 Porta Bulker				01/11/2016 18:00	01/12/2016 02:40
449183	TRAILER	1600 Porta Bulker				01/11/2016 18:00	01/12/2016 02:40
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>			
Laeger, Kacey (25046)	01/11/2016 18:00	01/12/2016 02:40					
Pigg, Martin (28301)	01/11/2016 18:00	01/12/2016 02:40					
Devine, Richard (29733)	01/11/2016 18:00	01/12/2016 02:40					
Dunsbergen, Scott (29737)	01/11/2016 18:00	01/12/2016 02:40					
Spirek, Matthew (26921)	01/11/2016 18:00	01/12/2016 02:40					
Devine, Richard (29733)	01/11/2016 18:00	01/12/2016 02:40					
Devine, Richard (29733)	01/11/2016 18:00	01/12/2016 02:40					

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	Jan 11,2016 18:00	Arrive On Location		—	—	—	—	0.00
2	Jan 11,2016 18:45	Crew Briefing (Rig in)		—	—	—	—	0.00
3	Jan 11,2016 21:20	Rig in Complete		—	—	—	—	0.00
4	Jan 11,2016 21:25	Crew Briefing (Pre Job)		—	—	—	—	0.00
5	Jan 11,2016 21:31	Pressure Test Start	Water	—	7,000.0	—	3.00	0.00
6	Jan 11,2016 21:33	Pressure Test Complete	Water	—	7,000.0	—	—	0.00
7	Jan 11,2016 21:45	Drop Plug	Water	7.00	600.0	—	—	0.00
		Remarks: drop bottom wiper plug						
8	Jan 11,2016 21:45	Pump Preflush	Water	7.00	600.0	—	30.00	30.00
		Remarks: mudflush (SAPP + WS-30)						
9	Jan 11,2016 21:48	Pump Spacer	Water	7.00	600.0	—	30.00	60.00
		Remarks: visweep (gel)						
10	Jan 11,2016 21:53	Pump	50 % Class III / 50 % Poz	7.30	800.0	—	50.00	110.00
		Remarks: Scavenger @ 11.5 ppg						
11	Jan 11,2016 22:00	Pump	50 % Class III / 50 % Poz	8.00	900.0	—	239.00	349.00
		Remarks: Lead @ 12.0 ppg						
12	Jan 11,2016 22:28	Pump	65% Class G / 35% Poz (1-2-0 G)	8.00	800.0	—	435.00	784.00
		Remarks: Tail @ 13.5 ppg						
13	Jan 11,2016 23:34	Pump Out Lines	Water	—	—	—	—	784.00
14	Jan 11,2016 23:51	Pump Displacement	Water	7.00	700.0	—	308.00	1,092.00
15	Jan 12,2016 01:30	Bump Plug		—	—	—	—	1,092.00
		Remarks: No bump						
16	Jan 11,2016 02:00	Rig Out		—	—	—	—	1,092.00
17	Jan 12,2016 02:30	Job Complete		—	—	—	—	1,092.00
18	Jan 12,2016 02:40	Leave Location		—	—	—	—	1,092.00

Did Float Hold: No
 Fluid Returns : Yes
 Type : Cement
 Volume (bbl) : 40
 Temperature (°F) : 70
 FDAS Functioning Correctly : Yes
 Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
 63281
 63278
 63280



9209936

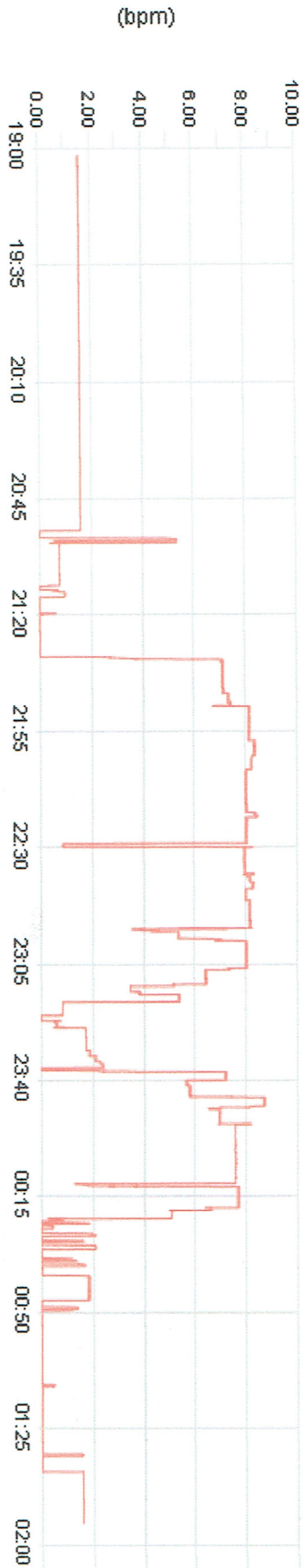


Client
Ticket No. 9209936
Location SE SW Sec 7:T10N:R57W
Comments See Data logs for details

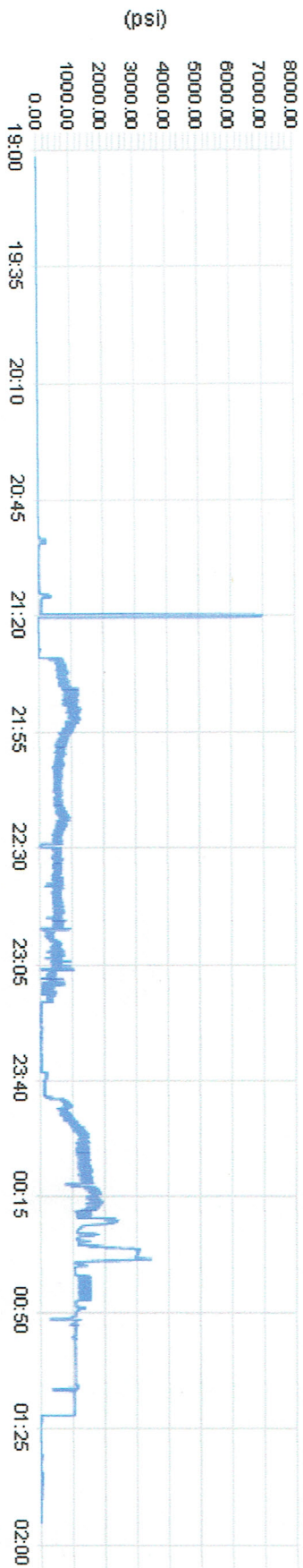
Client Rep
Well Name Mr. BJ
Job Type Horsetail 07E-1801
Production Casing

Supervisor
Unit No. 745051
Service District Fort Lupton
Job Date 01/11/2016

Unit 745051 Rate Total



Unit 745051 Pump Pressure



Unit 745051 Density

