



Client Name Whiting Petroleum Corp.	Well Name Horsetail 07E - ?????	Rig Unit Drilling Co. 409	Job Date January 13,2016	Call Sheet 1063870
Client Representative Kenny	Surface Well Location SE NE Sec 12:T10N:R58W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Doran, Benjamin (27933)

**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):	---	@	--	

<b>Open Hole</b>						
	<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	--	0.000	2,046.000	--	--

<b>Casing</b>										
	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Collapse Pressure</u>	<u>Internal Yield Pressure</u>	<u>Capacity</u>	<u>I.D.</u>	<u>O.D.</u>	<u>Depth From</u>	<u>Depth To</u>
	(in)	(lb/ft)		(psi)	(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	9.625	36.000	J-55	2,020.0	3,520.0	156.55	8.921	10.625	0.0	2,025.0

**Products**

<b>Stage 1</b>	
From Depth (ft):	0
To Depth (ft):	1508
Acids/Blends/Fluids :	
Lead 1: 355 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 155.5 (bbl)	
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70	
+ 0.25 lb/sack of LCL-7 (Preblend)	
<b>Stage 2</b>	
From Depth (ft):	1508
To Depth (ft):	2008
Acids/Blends/Fluids :	
Tail: 240 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 62.4 (bbl)	
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70	
+ 2 % of CaCl2 (Preblend),	
+ 0.25 lb/sack of LCL-7 (Preblend)	
<b>Stage 3</b>	
From Depth (ft):	
To Depth (ft):	
Acids/Blends/Fluids :	

**Fluid & Cement Data**

Expected Cement Top:	Surface				
<b>Wellbore Fluid</b>					
<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

##### Down Hole Tools

<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Float Collar	1,978.600	Third Party
Guide/Float Shoe	2,025.000	Third Party

##### 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>
201025	PICKUP	1 Ton	449093	TRAILER	Utility Trailer	01/13/2016 10:00	01/13/2016 14:30
749100	TRACTOR	Tandem - Tractor	445033	TRAILER	SCM Twin	01/13/2016 10:00	01/13/2016 14:30
446200	TRAILER	Bulker	746200	TRACTOR	Tandem - Tractor	01/13/2016 10:00	01/13/2016 14:30
446201	TRAILER	Bulker	746201	TRACTOR	Tandem - Tractor	01/13/2016 10:00	01/13/2016 14:30

##### Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Doran, Benjamin (27933)	01/13/2016 10:00	01/13/2016 14:30		
Svoboda, Miloslav (28226)	01/13/2016 10:00	01/13/2016 14:30		
Trujillo, Dino (29839)	01/13/2016 10:00	01/13/2016 14:30		
Johnson, Jakob (30073)	01/13/2016 10:00	01/13/2016 14:30		

#### 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 13,2016 10:00	Arrive On Location		--	--	--	--	0.00
2	Jan 13,2016 10:05	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Jan 13,2016 11:30	Rig in Complete		--	--	--	--	0.00
4	Jan 13,2016 11:35	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Jan 13,2016 11:57	Pressure Test Start		2.00	75.0	--	3.00	0.00
		Remarks: Fill lines						
6	Jan 13,2016 11:59	Pressure Test Complete		--	3,500.0	--	--	0.00
		Remarks: all lines held pressure						
7	Jan 13,2016 12:00	Pump Preflush	Water	8.00	220.0	--	20.00	0.00
8	Jan 13,2016 12:30	Mix Cement	Control Set C	8.50	275.0	--	155.50	0.00
		Remarks: Mix/Pump 355 Sacks @ 12 PPG, 2.46 Yield, 14.52 Water Req, 99.90 Sack Weight						
9	Jan 13,2016 12:51	Mix Cement	0:1:0 Type III	6.50	200.0	--	62.40	0.00
		Remarks: Mix/PUmp 240 Sacks @ 14.2 PPG, 1.46 Yield, 7.36 Water Req, 96.08 Sack Weight.						
10	Jan 13,2016 13:06	Drop Plug		--	--	--	--	0.00
11	Jan 13,2016 13:09	Displace Fluid	Water	7.00	250.0	--	153.00	0.00
12	Jan 13,2016 13:44	Bump Plug	Water	--	1,270.0	--	--	0.00
13	Jan 13,2016 13:45	Pressure Test	Water	--	1,558.0	--	--	0.00
		Remarks: 10 Minute Casing Test						
14	Jan 13,2016 13:55	Check Float		--	--	--	--	0.00
		Remarks: 1 BBL back						
15	Jan 13,2016 14:05	Rig Out		--	--	--	--	0.00
16	Jan 13,2016 14:20	Job Complete		--	--	--	--	0.00
17	Jan 13,2016 14:30	Leave Location		--	--	--	--	0.00

Did Float Hold: Yes  
 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  
 63305  
 63306  
 63307

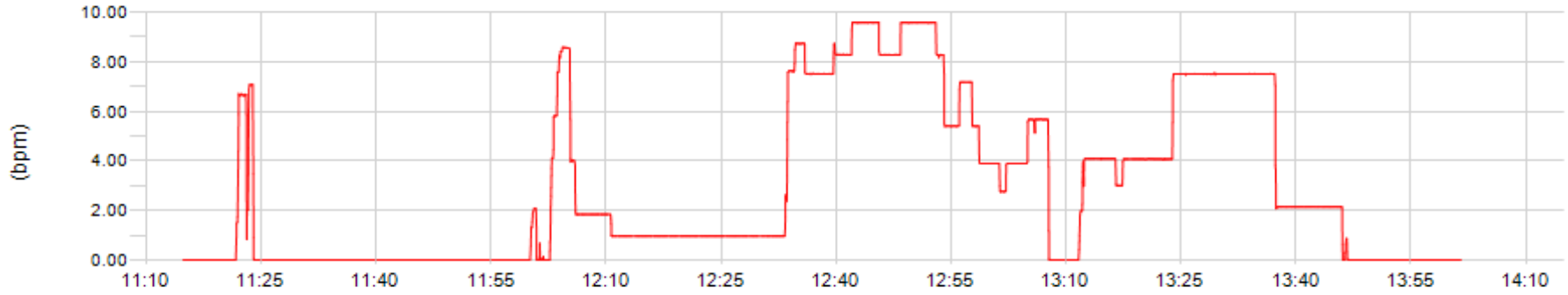


Client Whiting  
Ticket No. 9209224  
Location SE NE Sec12:t10N:R58W  
Comments Pump job as per design

Client Rep Tyson  
Well Name Horsetail 07E-1802  
Job Type Surface Casing

Supervisor Ben Doran  
Unit No. 445033  
Service District 505  
Job Date 01/13/2016

Unit 445033 Rate Total



Unit 445033 Pump Pressure



Unit 445033 Density

