



9209248

Client Name Whiting Petroleum Corp.	Well Name Horsetail 07E - 0601	Rig Unit Drilling Co. 409	Job Date December 30, 2015	Call Sheet 1063519
Client Representative Kenny	Surface Well Location NW NW Sec 7:T10N:R57W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Johnson, Quintin (23945)

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	2,020.000	--	--

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	155.23	8.921	10.625	0.0	2,008.0

Products**Stage 1**

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Lead 1: 390 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 170.9 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 65
+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 2

From Depth (ft): 1961.1

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) = 65
+ 2 % of CaCl₂ (Preblend),
+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 3

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.340	--	--	Jul 07, 2015 14:19

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Guide Shoe	2,008.000	Client
Float Collar	1,961.100	Client

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Client

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449093	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	12/29/2015 23:00	12/30/2015 07:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	12/29/2015 23:00	12/30/2015 07:30
446201	TRAILER	Bulker	746201	TRACTOR	Tandem - Tractor	12/29/2015 23:00	12/30/2015 07:30
449127	TRAILER	1600 Porta Bulker				12/29/2015 23:00	12/30/2015 07:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Johnson, Quintin (23945)	12/29/2015 23:00	12/30/2015 07:30		
Peterson, Ryan (28158)	12/29/2015 23:00	12/30/2015 07:30		
Hansen, Ted (29055)	12/29/2015 23:00	12/30/2015 07:30		
Faircloth, Branden (29706)	12/29/2015 23:00	12/30/2015 07:30		
Peterson, Ryan (28158)	12/29/2015 23:00	12/30/2015 07:30		
Faircloth, Branden (29706)	12/29/2015 23:00	12/30/2015 07:30		

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	Dec 29,2015 23:00	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived on time						
2	Dec 29,2015 23:10	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Talked about site hazards and how to mitigate them, Spotted trucks and rigged in						
3	Dec 30,2015 04:05	Rig in Complete		--	--	--	--	0.00
		Remarks: Rig in complete to the rig floor waiting on casing crew						
4	Dec 30,2015 04:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Talked about the job scope and safety concerns, and signed our JSA						
5	Dec 30,2015 05:04	Pressure Test Start	Water	1.50	50.0	--	2.00	2.00
		Remarks: Filled our lines for pressure testing						
6	Dec 30,2015 05:06	Pressure Test	Water	0.00	3,000.0	--	0.00	2.00
		Remarks: Pressured lines and they held good						
7	Dec 30,2015 05:08	Pressure Test Complete		--	--	--	--	2.00
		Remarks: Opened up to pump job						
8	Dec 30,2015 05:09	Establish Circulation	Water	6.50	400.0	--	20.00	22.00
		Remarks: Pumped 20bbls ahead (last 10bbls with poly)						
9	Dec 30,2015 05:21	Mix Cement	Control Set C	8.00	325.0	--	170.90	192.90
		Remarks: Pumped lead at 12# density, Yield at 2.46 and Water requirement at 14.52						
10	Dec 30,2015 05:44	Mix Cement	0:1:0 Type III	8.00	400.0	--	62.40	255.30
		Remarks: Mixed tail at 14.2, Yield at 1.46 and Water requirement at 7.36						
11	Dec 30,2015 05:54	Drop Plug		--	--	--	--	255.30
		Remarks: Stopped and Dropped 9.625 rubber plug supplied by Client						
12	Dec 30,2015 05:58	Pump Displacement	Water	8.00	600.0	--	151.60	406.90
		Remarks: Displaced Slurry to float collar set at 1961.1'						
13	Dec 30,2015 06:46	Bump Plug		2.00	1,500.0	--	151.60	558.50
		Remarks: Bumped plug at 500lbs over treating pressure						
14	Dec 30,2015 06:49	Check Float	Water	--	--	--	--	558.50
		Remarks: Got 1.5 bbls back and floats held						
15	Dec 30,2015 05:11	Stop		--	--	--	--	558.50
		Remarks: Stopped and rigged of the floor and all Ground iron and Water hosed						
16	Dec 30,2015 05:12	Wash	Water	2.00	--	--	0.00	558.50
		Remarks: Washed up on top of plug while displacing						
17	Dec 30,2015 06:45	Rig Out		--	--	--	--	558.50
		Remarks: Rigged out our iron and hoses						
18	Dec 30,2015 07:20	Job Complete		--	--	--	--	558.50
		Remarks: Do complete walk around and check trailers and pins						
19	Dec 30,2015 07:30	Leave Location		--	--	--	--	558.50
		Remarks: Go Back to Sanjel Yard						

Treatment Reports & Remarks

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 60
Temperature (°F) : 67
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

63179

63178

63180



Client
Ticket No.
Location
Comments

Whiting Petroleum Corp.
9209248
NW NW Sec 7: T10N: R57W
PUMP AS PER DESIGN

Supervisor
Unit No.
Service District
Job Date

Quintin Elmer Johnson
445047, 445020
Fort Lupton, Co.
12/30/2015

