



**Pumping
Service Report**

9200651

Client Name Whiting Petroleum Corp.	Well Name Horsetail 29G-2012B	Rig Pioneer Drilling 54	Job Date October 29, 2014	Call Sheet 1049225
Client Representative Dave	Surface Well Location Sec 29:T10N:R57W	Down Hole Well Location	Job Type Liner Casing	

Well Profile

Well Type:	Oil
Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	--- @ ---
Bottom Hole Circulating Temperature (°F):	--- @ ---
Bottom Hole Logged Temperature (°F):	--- @ ---

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.750	30.000	--	--	--	--

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)
4.500	11.600	J-55	4,960.0	5,350.0	94.81	4.000	5.000	0.0	6,100.0

Products

Stage 1

From Depth (ft): 0
To Depth (ft): 13694

Acids/Blends/Fluids :

Lead 1: 580 Sacks of 1-1-0 G, Density = 13.7 lb/gal, Volume Pumped = 152.88 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80
+ 8 % of SilFume (Preblend),
+ 2 % of Gel (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-4 (Preblend),
+ 1 % of FWCA-H (Preblend),
+ 0.45 % of LTR (Preblend),
+ 0.2 % of AS-3 (Preblend),
+ 0.25 % of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: --					
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	--	8.400	--	--	Jul 14, 2014 20:27
Water Based Mud	--	--	--	--	Oct 09, 2014 19:06

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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>
201191	PICKUP	1 Ton	449095	TRAILER	Utility Trailer	10/29/2014 04:00	10/29/2014 13:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	10/29/2014 04:00	10/29/2014 13:30
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	10/29/2014 04:00	10/29/2014 13:30
446167	TRAILER	Bulker	746167	TRACTOR	Tandem - Tractor	10/29/2014 04:00	10/29/2014 13:30

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hall, Andrew J	10/29/2014 04:00	10/29/2014 13:30		
Doran, Benjamin	10/29/2014 04:00	10/29/2014 13:30		
Pigg, Martin	10/29/2014 04:00	10/29/2014 13:30		
Hall, Austin	10/29/2014 04:00	10/29/2014 13:30		
Martinez, Fernando	10/29/2014 04:00	10/29/2014 13:30		

Treatment Reports & Remarks

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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	Oct 29, 2014 04:00	Arrive On Location	---	--	--	--	--	0.00
2	Oct 29, 2014 04:15	Tailgate Meeting	---	--	--	--	--	0.00
3	Oct 29, 2014 04:30	STEACS Briefing	---	--	--	--	--	0.00
4	Oct 29, 2014 05:00	Stop	---	--	--	--	--	0.00
Remarks: Wait for rig to finish running liner.								
5	Oct 29, 2014 06:30	Rig In	---	--	--	--	--	0.00
6	Oct 29, 2014 07:10	Safety Meeting	---	--	--	--	--	0.00
7	Oct 29, 2014 07:50	Sign-off on Safety	---	--	--	--	--	0.00
8	Oct 29, 2014 08:00	Pressure Test	Water Based Mud	2.00	5,000.0	--	5.00	5.00
9	Oct 29, 2014 08:05	Drop Balls	---	--	--	--	--	5.00
10	Oct 29, 2014 08:07	Pump	Water Based Mud	4.00	1,500.0	--	60.00	65.00
11	Oct 29, 2014 09:05	Pump Preflush	Water	4.00	1,800.0	--	30.00	95.00
12	Oct 29, 2014 09:15	Pump	1:1:0 Poz G Gel	4.00	1,500.0	--	152.88	247.88
13	Oct 29, 2014 10:00	Wash	Water	2.00	200.0	--	10.00	257.88
Remarks: Wash lines.								
14	Oct 29, 2014 10:10	Drop Plug	---	--	--	--	--	257.88
15	Oct 29, 2014 10:15	Displace Fluid	Water	4.00	2,000.0	--	166.00	423.88
16	Oct 29, 2014 10:48	Bump Plug	---	2.00	1,800.0	--	--	423.88
17	Oct 29, 2014 10:50	Check Float	---	--	--	--	--	423.88
18	Oct 29, 2014 11:10	Hold Back Pressure	Water	2.00	2,500.0	--	3.00	426.88
19	Oct 29, 2014 11:20	Displace Fluid	Water	4.00	1,000.0	--	125.00	551.88
20	Oct 29, 2014 12:20	Rig Out	---	--	--	--	--	551.88
21	Oct 29, 2014 13:00	Job Complete	---	--	--	--	--	551.88
22	Oct 29, 2014 13:15	Pre-Departure Meeting	---	--	--	--	--	551.88
23	Oct 29, 2014 13:30	Leave Location	---	--	--	--	--	551.88

Did Float Hold: Yes
Fluid Returns: Yes
Type: Cement
Volume (bbl): 18
Temperature (°F): 90
FDAS Functioning Correctly: Yes
Was the Program Followed As Per Design?: Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
54721
54720

Comments To Service Report

Job went good. Pumped job according to prog. Equipment and crew did a good job.

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Service Ticket

9200651

Field Estimate

Client Name Whiting Petroleum Corp.			Well Name Horsetail 29G-2012B		Surface Well Location Sec 29:T10N:R57W		Job Date October 29, 2014				
			Job Type Liner Casing		Down Hole Location		Service Point Fort Lupton		Call Sheet 1049225		
Address 1700 Broadway, Suite. 2300			Client Representative Dave		State CO		County Weld		Pricing Area Area U		
City Denver		State CO	Postal Code 80290	Drilling Company Pioneer Drilling		Rig No. 54		AFE/PO #			
District	Service, Equipment & Material Type			Disc	13	Code	Quantity/Unit	Unit Price	Amount		
59	Travel Charge			60	13	1380	1	\$7.50	\$750.00		
59	Service Charge 13001 to 14000 ft			60	13	1124	1	\$20,400.00	\$20,400.00		
59	Twin Pumping			60	13	1150	1	\$4,080.00	\$4,080.00		
59	Handling Service Charge			60	13	1480	706	\$3.30	\$2,329.80		
59	Bulk Delivery / Return			60	13	1484	2680	\$2.55	\$6,834.00		
59	SAM Unit			60	13	1497	1	\$1,015.00	\$1,015.00		
59	VISWEEP			60	13	3180	1260	\$1.75	\$2,205.00		
59	Indicator Dye			60	13	3197	840	\$0.70	\$588.00		
59	1-1-0			60	13	3002	580	\$22.50	\$13,050.00		
59	CFL-4			60	13	3133	335	\$48.10	\$16,113.50		
59	SilFume			60	13	3233	3828	\$2.60	\$9,952.80		
59	Gel			60	13	3231	957	\$1.00	\$957.00		
59	LTR			60	13	3110	216	\$6.60	\$1,425.60		
59	AS-3			60	13	2999	96	\$19.00	\$1,824.00		
59	FWCA-H			60	13	3146	479	\$4.45	\$2,131.55		
59	CFR-5			60	13	3164	48	\$29.00	\$1,392.00		
59	Polyflake			60	13	3247	145	\$5.00	\$725.00		
59	EnviroBag			60	13	1492	2	\$78.00	\$156.00		
59	DF-3, Anti-foamer			60	13	3262	20	\$141.00	\$2,820.00		
59	Environmental Surcharge			-	13	1493	1	\$50.00	\$50.00 *		
59	Fuel Surcharge			-	13	2992	3	\$560.00	\$1,680.00 *		
59	sugar			-	13	2999	100	\$2.00	\$200.00 *		
59	Add. Loc. Time (Twin) - Operating			-	13	1395	3	\$525.00	\$1,575.00 *		
59	Bulk Standby Time			-	13	1398	6	\$285.00	\$1,710.00 *		
This Space Reserved for Client Coding Stamp				* Not Subject to Discount		Field Estimate		Before Discount: \$93,964.25			
								Fuel Surcharge:			
								After Discount: \$40,714.70			
				FOR OFFICE USE ONLY							
				<input checked="" type="checkbox"/> Cementing - Prim		<input type="checkbox"/> Cementing - Rem.		<input type="checkbox"/> Code 9000			
<input type="checkbox"/> Coiled Tubing		<input type="checkbox"/> Nitrogen									
<input type="checkbox"/> Acidization		<input type="checkbox"/> Fracturing									
<input type="checkbox"/> Industrial Services		<input type="checkbox"/> MPCT									
<input type="checkbox"/> Other											
				Field		Sales 1		Sales 2			
Comments Job went good. Pumped job according to prog. Equipment and crew did a good job.						This service ticket is not an invoice; pricing is subject to review and change without notice. This signature confirms that I have read and comply with the terms and conditions page of this service ticket. X					

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Client	Whiting Petroleum	Client Rep	Matt	Supervisor	Andy Hall
Ticket No.	9200651	Well Name	Horsetail 29G-2012B	Unit No.	445052
Location	Sec29:T10N:R57W	Job Type	Liner Casing	Service District	505 Fort Lupton
Comments				Job Date	10/29/2014

