



**Pumping  
Service Report**

**9188048**

Client Name Whiting Petroleum Corp.	Well Name Nelson # 1	Job Date March 11, 2014	Call Sheet 1039684
Client Representative Bryan Olmstead	Location Sec 20:T10N:R58W	Job Type Abandonment Plugs	

**Well Profile**

Well Type: Oil

Maximum Treating Pressure (psi): ---

Predicted Bottom Hole Static Temperature (°F): 200.00 @ --

Bottom Hole Circulating Temperature (°F): 160.00 @ --

Bottom Hole Logged Temperature (°F): --- @ --

Open Hole	Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
	7.875	--	396.000	900.000	396.000	900.000

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	17.000	J-55	4,910.0	5,320.0	9.21	4.892	6.050	0.0	396.0

Tubing	Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
	(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
	2.875	6.500	J-55	7,680.000	5.210	2.441	3.668	0.000	900.000

**Products**

**Plug 1**

From Depth (ft): 0

To Depth (ft): 1361

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 215 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 44 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

Plug: 35 Sacks of 0:1:0 Type III, Density = 14.6 lb/gal, Volume Pumped = 8 (bbl)  
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

**Fluid & Cement Data**

Expected Cement Top: --

**Wellbore Fluid**

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Mar 09, 2014 11:49



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## Units & Personnel

### Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
746502	BODY JOB	Baby Bulker				03/11/2014 08:00	03/11/2014 13:30
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	03/11/2014 08:00	03/11/2014 13:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	03/11/2014 08:00	03/11/2014 13:30
201025	PICKUP	1 Ton	449086	TRAILER	Utility Trailer	03/11/2014 08:00	03/11/2014 13:30

### Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Young, Craig	03/11/2014 08:00	03/11/2014 13:30		
Pigg, Martin	03/11/2014 08:00	03/11/2014 13:30		
Durham, Adrian	03/11/2014 08:00	03/11/2014 13:30		
Hardwick, Waco	03/11/2014 08:00	03/11/2014 13:30		

## 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	Mar 11, 2014 08:00	Arrive On Location		--	--	--	--	0.00
2	Mar 11, 2014 08:15	Tailgate Meeting		--	--	--	--	0.00
3	Mar 11, 2014 08:25	Rig In		--	--	--	--	0.00
4	Mar 11, 2014 09:30	Safety Meeting		--	--	--	--	0.00
5	Mar 11, 2014 09:45	Sign-off on Safety		--	--	--	--	0.00
6	Mar 11, 2014 09:52	Pressure Test	Water	0.30	1,700.0	0.0	0.50	0.50
7	Mar 11, 2014 09:54	Establish Circulation	Water	2.00	200.0	0.0	3.00	3.50
8	Mar 11, 2014 10:00	Pump	0-1-0 G	1.50	75.0	0.0	41.50	45.00
9	Mar 11, 2014 10:18	Displace Fluid	Water	1.00	50.0	0.0	1.50	46.50
		Remarks: pumped 1.5 bbls to clear lines.						
10	Mar 11, 2014 10:40	Wash	Water	2.00	--	--	8.00	0.00
		Remarks: wash up mix & average tanks between plugs.						
11	Mar 11, 2014 10:50	Wait On Instructions		--	--	--	--	46.50
		Remarks: waited for rig crew to trip pipe out of hole so we could top off the surface casing.						
12	Mar 11, 2014 11:27	Pump	0:1:0 Type III	0.30	50.0	0.0	8.00	54.50
		Remarks: pumped cement in to surface casing with boost pump only.						
13	Mar 11, 2014 12:30	Wash	Water	2.00	--	--	25.00	0.00
14	Mar 11, 2014 12:50	Rig Out		--	--	--	--	0.00
15	Mar 11, 2014 13:15	Job Complete		--	--	--	--	0.00
16	Mar 11, 2014 13:25	Pre-Departure Meeting		--	--	--	--	0.00
17	Mar 11, 2014 13:30	Leave Location		--	--	--	--	0.00



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Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 8

Temperature (°F) : 60

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : No

They tagged 236 ft. higher than expected so as per Client request we pumped cement from where they tagged at 1361 ft. to surface and then we topped off the surface casing. Company man Mr. Brian Olmstead said that he called and got permission to do so.

**Material Transfer Sheet Number**

Material Transfer Sheet Number

44410

**Comments To Service Report**

As per client direction we cemented the open hole from 1361 ft. to 396 ft. and 5 1/2 casing from 396 ft. ft. to surface as they tagged cement 236 feet higher than they had expected.



Client	Whiting Petroleum Corp.	Client Rep	Mr. Bryan Olmstead	Supervisor	Waco Hardwick
Ticket No.	9188048	Well Name	Nelson # 1	Unit No.	745070
Location	Sec.20;T10N;R58W	Job Type	Abandonment Plugs	Service District	Fort Lupton, Co.
Comments	65 sx 0-1-0 G cement, 13.3 bbls slurry @ 15.8 density, 1 % CaCl 2 hydrated in mix water. # 3.9 bbls. displacement total.			Job Date	03/11/2014

