



**Pumping
Service Report**

9193413

Client Name Whiting Petroleum Corp.	Well Name Razor Federal 26I-3513A	Rig Frontier 26	Job Date July 10,2014	Call Sheet 1043935
Client Representative Tyson	Surface Well Location Sec 26:T10N:R58W	Down Hole Well Location	Job Type Surface 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)
	13.500	25.000	0.000	1,570.000	--	--

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		--	--	--	--	--	0.0	1,530.0

Products

Stage 1

From Depth (ft): 0
To Depth (ft): 1530
Acids/Blends/Fluids :
Tail: 665 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 174 (bbl)
Water Temperature(°F) = 65 , Bulk Temperature(°F) = 88 , Slurry Temperature(°F) = 94
+ 1 % of CaCl2 (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top:		Surface			
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.500	--	--	Jul 10, 2014 07:20

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Guide Shoe	--	Third Party
Float Collar	--	Third Party

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Bottom	9.625	Sanjel



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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
201191	PICKUP	1 Ton	449086	TRAILER	Utility Trailer	07/10/2014 11:30	07/10/2014 20:45
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	07/10/2014 11:30	07/10/2014 20:45
201191	PICKUP	1 Ton				07/10/2014 11:30	07/10/2014 20:45

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Douglass, Brian	07/10/2014 11:30	07/10/2014 20:45		
Doran, Benjamin	07/10/2014 11:30	07/10/2014 20:45		
Cheal, Samuel	07/10/2014 11:30	07/10/2014 20:45		
Estrada, John	07/10/2014 11:30	07/10/2014 20:45		
Davila, Israel	07/10/2014 11:30	07/10/2014 20:45		

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	Jul 10, 2014 11:30	Arrive On Location		--	--	--	--	0.00
2	Jul 10, 2014 11:40	Tailgate Meeting		--	--	--	--	0.00
3	Jul 10, 2014 11:50	Wait On Instructions		--	--	--	--	0.00
		Remarks: rig still running casing						
4	Jul 10, 2014 17:45	Rig In		--	--	--	--	0.00
5	Jul 10, 2014 18:10	Safety Meeting		--	--	--	--	0.00
6	Jul 10, 2014 18:20	Sign-off on Safety		--	--	--	--	0.00
7	Jul 10, 2014 18:27	Establish Circulation	Water	2.00	150.0	--	2.00	2.00
		Remarks: fill lines						
8	Jul 10, 2014 18:29	Pressure Test		--	3,000.0	--	--	2.00
9	Jul 10, 2014 18:30	Pump Preflush	Water	5.00	100.0	--	20.00	22.00
10	Jul 10, 2014 18:37	Mix Cement	0:1:0 Type III	6.00	250.0	--	174.00	196.00
11	Jul 10, 2014 19:06	Drop Plug		--	--	--	--	196.00
12	Jul 10, 2014 19:07	Pump Displacement	Water	5.50	500.0	--	114.00	310.00
13	Jul 10, 2014 19:32	Bump Plug		--	--	--	--	310.00
14	Jul 10, 2014 19:35	Check Float		--	--	--	--	310.00
		Remarks: float held						
15	Jul 10, 2014 19:40	Rig Out		--	--	--	--	310.00
16	Jul 10, 2014 20:30	Job Complete		--	--	--	--	310.00
17	Jul 10, 2014 20:40	Pre-Departure Meeting		--	--	--	--	310.00
18	Jul 10, 2014 20:45	Leave Location		--	--	--	--	310.00



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Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 50
Temperature (°F) : 90
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
46671
46670



Client	WHITING OIL AND GAS CORP	Client Rep	KENNY WILKERSON	Supervisor	BRIAN DOUGLASS
Ticket No.	9193413	Well Name	RAZOR FEDERAL 261-3513A	Unit No.	745070
Location	SEC.26-T10N-R58W	Job Type	Surface Casing	Service District	FORT LUPTON,CO
Comments	SEE JOB LOG FOR DETAILS			Job Date	07/10/2014

