



Client Name	Well Name	Rig	Job Date	Call Sheet
Whiting Petroleum Corp.	Razor Federal 12F-1307A	Unit Drilling Co. 409	July 27, 2015	1059467
Client Representative	Surface Well Location	Down Hole Well Location	Job Type	Lead Supervisor
Tyson	Sec 12:T10N:R58W		Liner Casing	Klosterman, Austin (27698)

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)
6.000	--	--	--	--	--

Casing

Size	Weight	Grade	Collapse Pressure	Internal Yield Pressure	Capacity	L.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(psi)	(bb)	(in)	(in)	(ft)	(ft)
7.000	29.000	---	--	--	--	--	--	0.0	6,273.0
4.500	11.600	---	--	--	--	--	--	5,186.0	13,821.0

Drill Pipe

Size	Weight	Grade	Collapse Pressure	Capacity	L.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bb)	(in)	(in)	(ft)	(ft)
4.000	29.000	---	--	--	--	--	0.000	4,424.000

Products

Stage 1	
From Depth (ft):	13831
To Depth (ft):	5186
Acids/Blends/Fluids :	
Tail: 590 Sacks of 1:1:0 Poz Dacotah G. Density = 13.7 lb/gal. Volume Pumped = 155.5 (bb)	
Water Temperature(°F) = 50, Bulk Temperature(°F) = 60, Slurry Temperature(°F) = 70	
+ 8 % of Silica Fume (Preblend),	
+ 2 % of Gel (Preblend),	
+ 0.1 % of CFR-5 (Preblend),	
+ 0.7 % of CFL-4 (Preblend),	
+ 1 % of FWC-2 (Preblend),	
+ 0.35 % of LTR (Preblend),	
+ 0.2 % of ASM-3 (Preblend)	

Fluid & Cement Data

Expected Cement Top:      Depth (ft): 5186

Wellbore Fluid

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



Pumping Service Report

9206192

Units & Personnel							
Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449095	TRAILER	Utility Trailer	201009	PICKUP	1 Ton	07/27/2015 10:00	07/27/2015 23:30
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	07/27/2015 10:00	07/27/2015 23:30
Crew and Bonuses							
Employee	Start Shift		End Shift		Second Start Shift		Second End Shift
Klosterman, Austin (27698)	07/27/2015 10:00		07/27/2015 23:30				
Daylong, Eric (28076)	07/27/2015 10:00		07/27/2015 23:30				
Leue, David (28684)	07/27/2015 10:00		07/27/2015 23:30				
Yates, William (29930)	07/27/2015 10:00		07/27/2015 23:30				





Pumping Service Report

9206192

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 27,2015 10:00	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Jul 27,2015 10:10	Crew Briefing (Rig in)		0.00	0.0	0.0	0.00	0.00
3	Jul 27,2015 18:40	Rig in Complete		0.00	0.0	0.0	0.00	0.00
4	Jul 27,2015 18:50	Crew Briefing (Pre Job)		0.00	0.0	0.0	0.00	0.00
5	Jul 27,2015 19:15	Pressure Test Start	Water	0.00	5,200.0	0.0	0.00	0.00
6	Jul 27,2015 19:16	Pressure Test Complete	Water	0.00	5,200.0	0.0	0.00	0.00
7	Jul 27,2015 19:17	Pump Preflush	Water	4.00	1,000.0	0.0	30.00	30.00
Remarks: Vissweep.								
8	Jul 27,2015 19:25	Pump	1:1:0 Poz Dacotah G	5.50	1,800.0	0.0	155.50	185.50
Remarks: Mix up and pump 590sx @13.7#, Yield 1.48, W/R 6.74.								
9	Jul 27,2015 20:05	Displace Fluid	Water	5.50	2,000.0	0.0	20.00	205.50
10	Jul 27,2015 20:09	Decrease Pump Rate	Water	3.00	1,100.0	0.0	10.00	215.50
11	Jul 27,2015 20:13	Increase Pump Rate	Water	5.50	2,000.0	0.0	115.00	330.50
12	Jul 27,2015 20:35	Decrease Pump Rate	Water	2.00	1,300.0	0.0	10.00	340.50
13	Jul 27,2015 20:38	Pumping Pressure Before Bump	Water	0.00	1,300.0	0.0	0.00	340.50
14	Jul 27,2015 20:39	Bump Plug	Water	0.00	1,900.0	0.0	0.00	340.50
15	Jul 27,2015 20:40	Check Float		0.00	0.0	0.0	0.00	340.50
Remarks: 1.5 bbls. back.								
16	Jul 27,2015 20:51	Pressure Test	Water	0.00	2,200.0	0.0	0.00	340.50
Remarks: Backside test for 10 minutes.								
17	Jul 27,2015 21:04	Displace Fluid	Water	7.50	2,200.0	0.0	190.00	530.50
Remarks: Rolling the 7 inch.								
18	Jul 27,2015 22:00	Rig Out		0.00	0.0	0.0	0.00	530.50
19	Jul 27,2015 23:00	Job Complete		0.00	0.0	0.0	0.00	530.50
20	Jul 27,2015 23:30	Leave Location		0.00	0.0	0.0	0.00	530.50
Did Float Hold: Yes								
Fluid Returns : Yes								
Type : Cement								
Volume (bbl) : 20								
Temperature (°F) : 70								
FDAS Functioning Correctly : Yes								
Was the Program Followed As Per Design? : Yes								
Material Transfer Sheet Number								
Material Transfer Sheet Number								
65252								
65253								



Client	Whiting	Client Rep	Tyson	Supervisor	A. Klosterman
Ticket No.	9206192	Well Name	Razor Federal 12F-1307F	Unit No.	445052
Location	Sec12:T10N:R58W	Job Type	Liner Casing	Service District	505
Comments	Mix up and pump 590 sx @13.7# Displace 165bbls.			Job Date	07/27/2015

