



Pumping Service Report

9206529

Client Name	Well Name	Rig	Job Date	Call Sheet
Whiting Petroleum Corp.	Razor Federal 12F-0108B	Unit Drilling Co. 409	July 29, 2015	1059534
Client Representative	Surface Well Location	Down Hole Well Location	Job Type	Lead Supervisor
Tyson	SE NE Sec 12, T10N, R58W		Surface Casing	Hansen, Kevin (27592)

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 1,895.000 -- --					
Casing					
Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bb)
9.625	36.000	J-55	2,020.0	3,520.0	145.18
					8.921
					10.625
					0.0
					1,878.0

Products					
Stage 1					
From Depth (ft): 0					
To Depth (ft): 1379					
Acids/Blends/Fluids :					
Lead 1 : 355 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 155 (bb)					
Water Temperature(°F) = 78 , Bulk Temperature(°F) = 78 , Slurry Temperature(°F) = 86					
+ 0.25 lb/sack of LCL-7 (Preblend)					
Stage 2					
From Depth (ft): 1379					
To Depth (ft): 1878					
Acids/Blends/Fluids :					
Tail: 240 Sacks of 0:1.0 Type III, Density = 14.2 lb/gal, Volume Pumped = 62 (bb)					
Water Temperature(°F) = 79 , Bulk Temperature(°F) = 79 , Slurry Temperature(°F) = 87					
+ 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: Surface					
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	1,878,000	Third Party	
Float Collar	1,831,000	Third Party	
Tubular Plugs			
Tubular Plug Type	Size (in)	Supplier	
Rubber Top	9.625	Client	

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>
444002	TRAILER	Iron	201386	PICKUP	1 Ton	07/29/2015 12:00	07/29/2015 18:00
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	07/29/2015 12:00	07/29/2015 18:00

Crew and Bonuses

<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>
Hansen, Kevin (27592)	07/29/2015 12:00	07/29/2015 18:00		
Faircloth, Branden (29706)	07/29/2015 12:00	07/29/2015 18:00		
Svoboda, Miloslav (28226)	07/29/2015 12:00	07/29/2015 18:00		
Hilt, Brandon (30128)	07/29/2015 12:00	07/29/2015 18:00		

Treatment Reports & Remarks



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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 29, 2015 12:00	Arrive On Location		-	-	-	-	0.00
2	Jul 29, 2015 12:10	Crew Briefing (Rig in)		-	-	-	-	0.00
		Remarks: Discussed spotting trucks and filled out JSA						
3	Jul 29, 2015 14:30	Rig in Complete		-	-	-	-	0.00
4	Jul 29, 2015 14:45	Crew Briefing (Pre Job)		-	-	-	-	0.00
		Remarks: Discussed job and safety concerns with rig crew and signed JSA						
5	Jul 29, 2015 15:12	Pressure Test Start		2.00	200.0	-	2.00	2.00
		Remarks: Filled lines for pressure test						
6	Jul 29, 2015 15:15	Pressure Test Complete		-	2,500.0	-	-	2.00
		Remarks: Pressure test good						
7	Jul 29, 2015 15:20	Pump Preflush	Water	5.00	300.0	-	10.00	12.00
		Remarks: Pumped red indicator dye						
8	Jul 29, 2015 15:22	Pump Spacer	Water	-	-	-	-	12.00
		Remarks: Pumped fresh water spacer						
9	Jul 29, 2015 15:25	Mix Cement	Control Set C	7.00	400.0	-	155.00	167.00
		Remarks: Lead pumped @ D-12.0, Y-2.46, WR-14.52						
10	Jul 29, 2015 15:35	Mix Cement		-	-	-	-	167.00
		Remarks: Weigh slurry to verify density						
11	Jul 29, 2015 15:42	Job Complete		-	-	-	-	167.00
12	Jul 29, 2015 15:43	Mix Cement	0.1:0 Type III	7.00	500.0	-	62.00	62.00
		Remarks: Tail pumped @ D-14.8, Y-1.46, WR-7.36						
13	Jul 29, 2015 15:50	Mix Cement		-	-	-	-	62.00
		Remarks: weigh slurry to verify density						
14	Jul 29, 2015 16:05	Drop Plug		-	-	-	-	62.00
15	Jul 29, 2015 16:06	Displace Fluid	Water	6.00	600.0	-	142.00	204.00
16	Jul 29, 2015 16:37	Bump Plug		-	1,200.0	-	-	204.00
		Remarks: Bumped 500 over						
17	Jul 29, 2015 16:40	Check Float		-	-	-	-	204.00
		Remarks: Floats held .25 bbl back						
18	Jul 29, 2015 16:42	Pressure Test		-	1,500.0	-	-	204.00
		Remarks: Pressure test casing						
19	Jul 29, 2015 16:45	Wash		-	-	-	-	204.00
20	Jul 29, 2015 17:10	Rig Out		-	-	-	-	204.00
21	Jul 29, 2015 17:45	Pre-Departure Meeting		-	-	-	-	204.00
		Remarks: Discussed journey management						
22	Jul 29, 2015 18:00	Leave Location		-	-	-	-	167.00
23	#Error			-	-	-	-	-

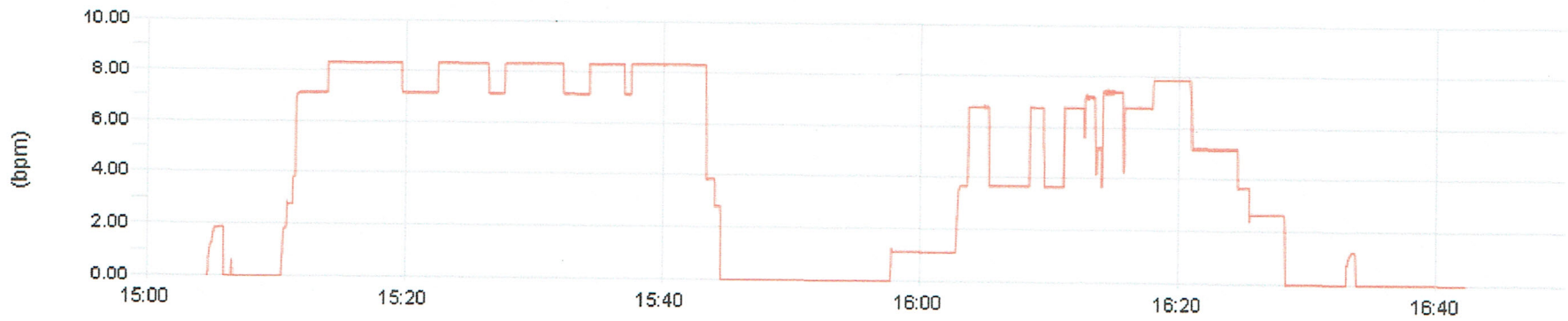


Treatment Reports & Remarks			
Did Float Hold:	Yes		
Fluid Returns :	Yes		
Type :	Cement	42	
Volume (bb) :			
Temperature (°F) :		87	
FDAS Functioning Correctly :	Yes		
Was the Program Followed As Per Design? :	Yes		
Material Transfer Sheet Number			
Material Transfer Sheet Number			
65281			
65282			
65283			

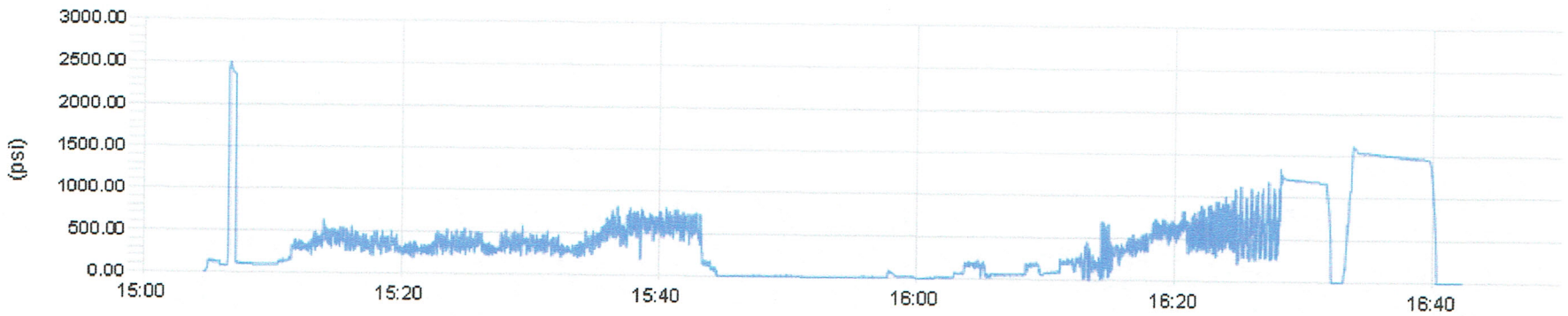


Client	Whiting Petroleum Corp	Client Rep	Tyson	Supervisor	Kevin Hansen
Ticket No.	9206529	Well Name	Razor Federal 12F-0108B	Unit No.	745070
Location	SE NE Sec12:T10N:R58W	Job Type	Surface Casing	Service District	Ft Lupton
Comments	Lead 355 sacks - 155 bbl Control Set C D-12.0, Y2.46, WR-14.52 Tail 240 sacks - -62 bbl type III D-14.8, Y-1.46, WR-7.36			Job Date	07/29/2015

Unit 745070 Rate Total



Unit 745070 Pump Pressure



Unit 745070 Density

