



Pumping Service Report

9199284

API: 05-123-39305

Client Name	Well Name	Rig	Job Date	Call Sheet
Whiting Petroleum Corp.	Razor 33O-2812	Frontier 9	December 12,2014	1051924
Client Representative	Surface Well Location	Down Hole Well Location	Job Type	Lead Supervisor
Kyle Renton	SW SE Sec 33:T10N:R58W		Liner Casing	Contreras, Bennie (23469)

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	25.000	--	--	--	--

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)
	7.000	29.000	L-80	7,030.0	8,160.0	--	6.184	7.656	--	--
	9.625	26.000	J-55	--	--	--	--	--	--	--

Products

Stage 1
From Depth (ft): 0
To Depth (ft): 13233
Acids/Blends/Fluids :
Tail: 615 Sacks of 1:1:0 Poz G, Density = 13.7 lb/gal, Volume Pumped = 162.1 (bbl)
Water Temperature(°F) = 47 , Bulk Temperature(°F) = 49 , Slurry Temperature(°F) = 55
+ 8 % of SilFume (Preblend),
+ 2 % of Gel (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-4 (Preblend),
+ 1 % of FWC-2 (Preblend),
+ 0.45 % of LTR (Preblend),
+ 0.2 % of ASM-3 (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Fluid & Cement Data

Expected Cement Top: ---

Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	---	8.400	---	---	Jul 14, 2014 20:27
Water Based Mud	---	---	---	---	Oct 09, 2014 19:06

Attachment & Tools

Down Hole Tools		
<u>Tool Type</u>	<u>Depth (ft)</u>	<u>Supplier</u>
Float Collar	13,179.000	Third Party

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen	Print Date:	December 12, 2014
Canada • USA • International	Service Report:	9199284
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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>
449093	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	12/11/2014 20:00	12/12/2014 08:30
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	12/11/2014 20:00	12/12/2014 08:30
449127	TRAILER	1600 Porta Bulker				12/11/2014 20:00	12/12/2014 08:30
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>		<u>End Shift</u>		<u>Second Start Shift</u>		<u>Second End Shift</u>
Contreras, Bennie (23469)	12/11/2014 20:00		12/12/2014 08:30				
Martinez, Fernando (28421)	12/11/2014 20:00		12/12/2014 08:30				
Svoboda, Miloslav (28226)	12/11/2014 20:00		12/12/2014 08:30				
Crane, Troy (29924)	12/11/2014 20:00		12/12/2014 08:30				
Crane, Troy (29924)	12/11/2014 20:00		12/12/2014 08:30				
Treatment Reports & Remarks							



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	Dec 11,2014 20:00	Arrive On Location		--	--	--	--	0.00
		Remarks: Arrived.						
2	Dec 11,2014 20:20	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Talked about spotting trucks and rig in.						
3	Dec 12,2014 02:30	Rig in Complete		--	--	--	--	0.00
		Remarks: Rigged in.						
4	Dec 12,2014 02:31	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Muster, Nearest med. and amb., 911 caller, Location safety equipt., Job scope.						
5	Dec 12,2014 03:04	Pressure Test Start	Water	--	4,000.0	--	--	0.00
		Remarks: Pressure test 4000 psi.						
6	Dec 12,2014 03:06	Pressure Test Complete		--	--	--	--	0.00
		Remarks: Pressure test complete.						
7	Dec 12,2014 03:08	Pump Preflush	Water	4.50	1,000.0	--	30.00	30.00
		Remarks: Pump Visweep 30 BBLs.						
8	Dec 12,2014 04:05	Mix Cement	1:1:0 Poz G	6.00	2,800.0	--	162.10	192.10
		Remarks: Mix and pump 162 BBLs of cement @ 13.7 lb/gal..						
9	Dec 12,2014 04:35	Stop		--	100.0	--	--	192.10
		Remarks: Stop Wash out lines 5 BBLs, Then drop dart.						
10	Dec 12,2014 04:40	Displace Fluid	Water	6.00	2,800.0	--	157.00	349.10
		Remarks: Displaced 157 total BBLs of water, Picking up the dart @ 36.5 BBLs into displacement.						
11	Dec 12,2014 05:11	Check Float	Water	--	--	--	--	349.10
		Remarks: Opened float and it held. Got 3/4 BBL back..						
12	Dec 12,2014 05:25	Establish Circulation	Water	2.00	200.0	--	8.00	357.10
		Remarks: Established circulation on back side 8 BBLs.						
13	Dec 12,2014 05:40	Pressure Test	Water	--	1,500.0	--	--	357.10
		Remarks: Tried to pressure test Backside to 1500 psi. would not hold. Rigged off and rig pressure tested.						
14	Dec 12,2014 06:18	Pump	Water	6.50	2,450.0	--	130.00	487.10
		Remarks: Roll the hole getting back 15 BBLs of cement, Until clear water, 130 BBLs total.						
15	Dec 12,2014 07:30	Rig Out		--	--	--	--	487.10
		Remarks: Rigged out iron and hoses.						
16	Dec 12,2014 08:00	Job Complete		--	--	--	--	487.10
		Remarks: Job complete.						
17	Dec 12,2014 08:30	Leave Location		--	--	--	--	487.10
		Remarks: Leave.						
Did Float Hold: Yes								
Fluid Returns : Yes								
Type : Cement								
Volume (bbl) : 15								
Temperature (°F) : 70								
FDAS Functioning Correctly : Yes								
Was the Program Followed As Per Design? : Yes								



Treatment Reports & Remarks

Material Transfer Sheet Number

<u>Material Transfer Sheet Number</u>
54305
54304
54303



Client	Whiting Petroleum Corp.	Client Rep	Mr. Kyle Renton	Supervisor	Bennie Contreras
Ticket No.	9199284	Well Name	Razor 330-2812	Unit No.	745051
Location	SWSE Sec33:T10N:R 58W	Job Type	Liner Casing	Service District	Fort Lupton
Comments	615 sacks 1-1-0 Poz G @ 13.7 lb/gal.			Job Date	12/12/2014

