



Pumping Service Report

9199285

Client Name Whiting Petroleum Corp.	Well Name Razor 33P-3316	Rig Frontier 26	Job Date December 13, 2014	Call Sheet 1052019
Client Representative Kenny Wilkerson	Surface Well Location Sec 33:T10N:R58W	Down Hole Well Location	Job Type Liner Casing	Lead Supervisor 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)
6.000	15.000	--	--	--	--

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)
4.500	11.600		--	--	--	--	--	5,014.0	10,496.0

Products

Stage 1

From Depth (ft):	5014
To Depth (ft):	10500

Acids/Blends/Fluids :

Tail: 355 Sacks of 1:1:0 Poz:G, Density = 13.7 lb/gal, Volume Pumped = 93.57 (bbl)
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 50 , Slurry Temperature(°F) = 68
+ 8 % of SilFume (Preblend),
+ 2 % of Gel (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-4 (Preblend),
+ 1 % of FWCA-H (Preblend),
+ 0.45 % of LTR (Preblend),
+ 0.2 % of ASA-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

Tool Type	Depth (ft)	Supplier
Float Collar	10,492.000	Third Party



Pumping Service Report

9199285

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>
49093	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	12/13/2014 10:30	12/13/2014 19:45
45051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	12/13/2014 10:30	12/13/2014 19:45

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)	12/13/2014 10:30	12/13/2014 19:45		
Pyfer, Kevin (29802)	12/13/2014 10:30	12/13/2014 19:45		
Svoboda, Miloslav (28226)	12/13/2014 10:30	12/13/2014 19:45		
Martinez, Fernando (28421)	12/13/2014 10:30	12/13/2014 19:45		

Treatment Reports & Remarks



Pumping Service Report

9199285

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 13, 2014 10:30	Arrive On Location		--	--	--	--	0.00
		Remarks: ARRIVED						
2	Dec 13, 2014 10:45	Crew Briefing (Rig in)		--	--	--	--	0.00
		Remarks: Talked about spotting trucks and rigging in.						
3	Dec 13, 2014 14:00	Rig in Complete		--	--	--	--	0.00
		Remarks: RIG IN COMPLETE.						
4	Dec 13, 2014 14:10	Crew Briefing (Pre Job)		--	--	--	--	0.00
		Remarks: Muster, 911 caller, Nearest med., Amb. and driver, Location safety equipt., Job scope.						
5	Dec 13, 2014 15:05	Pressure Test Start	Water	--	5,000.0	--	--	0.00
		Remarks: Pressure test 5000 psi.						
6	Dec 13, 2014 15:09	Pressure Test Complete		--	--	--	--	0.00
		Remarks: Pressure test complete.						
7	Dec 13, 2014 15:10	Pump	Water	5.50	2,500.0	--	10.00	10.00
		Remarks: 10 BBLs of red dye.						
8	Dec 13, 2014 15:12	Pump	Water	5.50	2,500.0	--	10.00	20.00
		Remarks: 10 BBLs of Visweep.						
9	Dec 13, 2014 15:14	Mix Cement	1:1:0 Poz:G	5.50	2,600.0	--	93.60	113.60
		Remarks: 93.6 BBLs of cement @ 13.7 lb/gal.						
10	Dec 13, 2014 15:38	Stop		--	--	--	--	113.60
		Remarks: Stop to clean out lines and drop dart manually.						
11	Dec 13, 2014 15:48	Displace Fluid	Water	5.50	2,800.0	--	114.00	227.60
		Remarks: Displaced 114 BBLs to bump plug 500 psi over to 2000 psi total.						
12	Dec 13, 2014 16:33	Establish Circulation	Water	2.00	50.0	--	2.00	229.60
		Remarks: Establish returns on the backside, 2 BBLs.						
13	Dec 13, 2014 16:35	Pressure Test	Water	--	1,500.0	--	--	229.60
		Remarks: 1500 psi pressure test on backside for 5 min.						
14	Dec 13, 2014 16:47	Forward Circulate	Water	8.00	2,200.0	--	160.00	389.60
		Remarks: Roll the hole 160 BBLs of clean water, Got a trace of cement back.						
15	Dec 13, 2014 19:10	Rig Out		--	--	--	--	389.60
		Remarks: Rig down.						
16	Dec 13, 2014 19:30	Job Complete		--	--	--	--	389.60
		Remarks: Job complete.						
17	Dec 13, 2014 19:45	Leave Location		--	--	--	--	389.60
		Remarks: Leave						

Did Float Hold: Yes
 Fluid Returns: Yes
 Type: Cement
 Volume (bbl): 0.1
 Temperature (°F): 76
 FDAS Functioning Correctly: Yes
 Was the Program Followed As Per Design?: Yes



Pumping Service Report

9199285

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

54392

54393



Client	Whiting petroleum Corp.	Client Rep	Mr. Kenny W
Ticket No.	9199285	Well Name	Razor 33P-33
Location	Sec33:T10N:R58W	Job Type	Liner Casing
Comments	355 sacks 1-1-0 Poz G @ 13.7 lb/gal		

n	Supervisor	Bennie Contreras
	Unit No.	745051
	Service District	Fort Lupton
	Job Date	12/13/2014

