Sanjel

Cementing Service Report

9207969

Client Name	Well Name	Rig	Job Date	Call Sheet
Whiting Petroleum Corp.	Razor Federal 12F-0102B	Unit Drilling Co. 409	October 28,2015	1061977
Client Representative	**Surface Well Location**	**Down Hole Well Location**	**Job Type**	**Lead Supervisior**
BJ	SE NW Sec 12:T10N:R58W		Intermediate 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)
8.750	--	0.000	6,578.000	--	--

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	1,870.0
7.000	32.000		--	--	--	--	--	0.0	6,563.0

Products

Stage 1

From Depth (ft): 4700

To Depth (ft): 0

Acids/Blends/Fluids :

Lead 1: 470 Sacks of 1-2-6 PozG, Density = 12.5 lb/gal, Volume Pumped = 158 (bbl)
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 75
+ 6 % of Gel (Preblend),
+ 0.2 % of CFR (Preblend),
+ 0.5 % of CFL-4 (Preblend),
+ 0.15 % of LTR (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend)

Stage 2

From Depth (ft): 6578

To Depth (ft): 4700

Acids/Blends/Fluids :

Tail: 260 Sacks of 1-1-2 PozG, Density = 13.5 lb/gal, Volume Pumped = 70 (bbl)
Water Temperature(°F) = 50 , Bulk Temperature(°F) = 55 , Slurry Temperature(°F) = 75
+ 2 % of Gel (Preblend),
+ 8 % of SilFume (Preblend),
+ 0.1 % of CFR-5 (Preblend),
+ 0.7 % of CFL-3 (Preblend),
+ 0.2 % of LTR (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	--	8.340	--	--	Jul 07, 2015 14:19
Water Based Mud	--	10.000	--	--	Jul 11, 2015 17:09

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	7.000	Sanjel

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
444002	TRAILER	Iron	201386	PICKUP	1 Ton	10/28/2015 02:30	10/28/2015 08:30
445070	TRAILER	SCM Twin	745070	TRACTOR	Tandem - Tractor	10/28/2015 02:30	10/28/2015 08:30
449102	TRAILER	1600 Porta Bulker				10/28/2015 02:30	10/28/2015 08:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Klosterman, Austin (27698)	10/28/2015 02:30	10/28/2015 08:30		
Decenick, Scott (30083)	10/28/2015 02:30	10/28/2015 08:30		
Cheal, Samuel (28315)	10/28/2015 02:30	10/28/2015 08:30		
Yates, William (29930)	10/28/2015 02:30	10/28/2015 08:30		
Decenick, Scott (30083)	10/28/2015 02:30	10/28/2015 08:30		

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	Oct 28,2015 02:30	Arrive On Location		0.00	0.0	0.0	0.00	0.00
2	Oct 28,2015 02:40	Crew Briefing (Rig in)		0.00	0.0	0.0	0.00	0.00
3	Oct 28,2015 04:30	Rig in Complete		0.00	0.0	0.0	0.00	0.00
4	Oct 28,2015 04:50	Crew Briefing (Pre Job)		0.00	0.0	0.0	0.00	0.00
5	Oct 28,2015 04:59	Pressure Test Start	Water	0.00	4,200.0	0.0	0.00	0.00
6	Oct 28,2015 05:00	Pressure Test Complete	Water	0.00	4,200.0	0.0	0.00	0.00
7	Oct 28,2015 05:02	Pump Preflush	Water	7.00	800.0	0.0	20.00	20.00
	Remarks: Vissweep.							
8	Oct 28,2015 05:08	Pump	1-2-6 PozG	7.00	1,000.0	0.0	158.00	178.00
	Remarks: Mix up and pump lead, 470sx @12.5#, Yield 1.89, WR 10.14.							
9	Oct 28,2015 05:31	Pump	1-1-2 PozG	7.00	800.0	0.0	70.00	70.00
	Remarks: Mix up and pump tail, 260sx @13.5#, Yeild 1.52, WR 7.12.							
10	Oct 28,2015 05:53	Drop Plug On The Fly	Water Based Mud	0.00	0.0	0.0	0.00	70.00
11	Oct 28,2015 05:54	Displace Fluid	Water Based Mud	8.00	400.0	0.0	220.00	290.00
12	Oct 28,2015 06:36	Decrease Pump Rate	Water Based Mud	2.80	1,200.0	0.0	15.00	305.00
13	Oct 28,2015 06:38	Pumping Pressure Before Bump	Water Based Mud	0.00	1,200.0	0.0	0.00	305.00
14	Oct 28,2015 06:39	Bump Plug	Water Based Mud	0.00	1,700.0	0.0	0.00	305.00
15	Oct 28,2015 06:41	Check Float		0.00	0.0	0.0	0.00	305.00
	Remarks: 1.5 bbls. back.							
16	Oct 28,2015 06:42	Pressure Test	Water	0.00	1,600.0	0.0	0.00	305.00
	Remarks: Casing test for 5 minutes.							
17	Oct 28,2015 07:00	Rig Out		0.00	0.0	0.0	0.00	305.00
18	Oct 28,2015 08:00	Job Complete		0.00	0.0	0.0	0.00	178.00
19	Oct 28,2015 08:30	Leave Location		0.00	0.0	0.0	0.00	178.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 25

Temperature (°F) : 75

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
63609
63610
63611