Sanjel

Cementing Service Report

9209128

Client Name	Well Name	Rig	Job Date	Call Sheet
Whiting Petroleum Corp.	Razor Federal 12F - 1305A	Unit Drilling Co. 409	November 13,2015	1062452
Client Representative	**Surface Well Location**	**Down Hole Well Location**	**Job Type**	**Lead Supervisior**
Kenny	SE NE Sec 12:T10N:R58W		Surface Casing	Hall, Andrew J (25267)

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	1,861.000	--	--

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	J-55	2,020.0	3,520.0	142.25	8.921	10.625	0.0	1,840.1

Products

Stage 1

From Depth (ft): 0

To Depth (ft): 1370

Acids/Blends/Fluids :

Lead 1: 355 Sacks of Control Set C, Density = 12 lb/gal, Volume Pumped = 155.53 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80
+ 0.25 lb/sack of LCL-7 (Preblend)

Stage 2

From Depth (ft): 1370

To Depth (ft): 1795.6

Acids/Blends/Fluids :

Tail: 240 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 62.4 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 80
+ 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: --

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	--	--	--	--	Aug 24, 2015 15:49

Attachment & Tools

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Sanjel

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449086	TRAILER	Utility Trailer	201025	PICKUP	1 Ton	11/12/2015 08:30	11/13/2015 03:30
445047	TRAILER	SCM Twin	745047	TRACTOR	Tandem - Tractor	11/12/2015 08:30	11/13/2015 03:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Hall, Andrew J (25267)	11/12/2015 08:30	11/13/2015 03:30		
Pyfer, Kevin (29802)	11/12/2015 08:30	11/13/2015 03:30		
Dunsbergen, Scott (29737)	11/12/2015 08:30	11/13/2015 03:30		
Devine, Richard (29733)	11/12/2015 08:30	11/13/2015 03:30		

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	Nov 12,2015 08:30	Arrive On Location		--	--	--	--	0.00
2	Nov 12,2015 09:00	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Nov 12,2015 10:15	Rig in Complete		--	--	--	--	0.00
4	Nov 12,2015 11:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Nov 13,2015 00:15	Pressure Test Start	Water	1.00	3,000.0	--	3.00	3.00
6	Nov 13,2015 00:20	Pressure Test Complete		--	--	--	--	3.00
7	Nov 13,2015 00:22	Establish Circulation	Water	5.00	500.0	--	20.00	23.00
8	Nov 13,2015 00:26	Pump	Control Set C	8.00	500.0	--	155.53	178.53
9	Nov 13,2015 00:46	Pump	0:1:0 Type III	8.00	500.0	--	62.40	240.93
10	Nov 13,2015 00:56	Drop Plug		--	--	--	--	240.93
11	Nov 13,2015 00:58	Displace Fluid	Water Based Mud	7.00	700.0	--	138.79	379.72
12	Nov 13,2015 01:35	Bump Plug		--	1,400.0	--	--	379.72
13	Nov 13,2015 01:40	Check Float		--	--	--	--	379.72
14	Nov 13,2015 02:00	Rig Out		--	--	--	--	379.72
15	Nov 13,2015 03:00	Job Complete		--	--	--	--	379.72
	Remarks: AAR							
16	Nov 13,2015 03:30	Leave Location		--	--	--	--	379.72

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 60

Temperature (°F) : 90

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number
63773
63774
63775