



Cementing Service Report

9207896

Client Name NGL Water Solutions DJ, LLC	Well Name NGL Apollo 11	Rig Extreme Drilling Inc 20	Job Date October 25,2015	Call Sheet 1061886
Client Representative Mr. Chris Montoya	Surface Well Location SENE Sec 18:T6N:R63W	Down Hole Well Location	Job Type Intermediate Casing	Lead Supervisor Svoboda, Miloslav (28226)

Well Profile

Well Type:	Disposal
Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	--- @ --
Bottom Hole Circulating Temperature (°F):	--- @ --
Bottom Hole Logged Temperature (°F):	--- @ --

Open Hole

<u>Size (in)</u>	<u>Excess (%)</u>	<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>	<u>TVD To (ft)</u>
8.750	25.000	886.000	8,540.000	--	--

Casing

<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Collapse Pressure</u>	<u>Internal Yield Pressure</u>	<u>Capacity</u>	<u>I.D.</u>	<u>O.D.</u>	<u>Depth From</u>	<u>Depth To</u>
<u>(in)</u>	<u>(lb/ft)</u>		<u>(psi)</u>	<u>(psi)</u>	<u>(bbl)</u>	<u>(in)</u>	<u>(in)</u>	<u>(ft)</u>	<u>(ft)</u>
9.625	36.000	K-55	2,020.0	3,520.0	68.50	8.921	10.625	0.0	886.0
7.000	26.000	J-55	4,330.0	4,980.0	326.68	6.276	7.656	0.0	8,539.0

Products

Stage 1

From Depth (ft): 7048

To Depth (ft): 8539

Acids/Blends/Fluids :

Tail: 170 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 53 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70
+ 20 % of Silica Flour (Preblend),
+ 8 % of SilFume (Preblend),
+ 0.3 % of CFR (Preblend),
+ 0.8 % of CFL-4 (Preblend),
+ 1.5 % of Gel (Preblend),
+ 0.25 lb/sack of Polyflake (Preblend),
+ 0.1 % of LTR (Preblend)

Stage 2

From Depth (ft): 0

To Depth (ft): 6000

Acids/Blends/Fluids :

Lead 1: 555 Sacks of 1:1:0 Poz:Type III, Density = 12 lb/gal, Volume Pumped = 193 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70

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- + 0.5 % of CFL-4 (Preblend),
- + 0.2 % of ASM-3 (Preblend),
- + 2 % of FWC-2 (Preblend),
- + 0.1 % of LTR (Preblend)

Stage 3

From Depth (ft): 6000

To Depth (ft): 7048

Acids/Blends/Fluids :

Tail: 115 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 36 (bbl)
 Water Temperature(°F) = 60 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 70
 + 20 % of Silica Flour (Preblend),
 + 8 % of SilFume (Preblend),
 + 0.3 % of CFR (Preblend),
 + 0.8 % of CFL-4 (Preblend),
 + 1.5 % of Gel (Preblend),
 + 0.25 lb/sack of Polyflake (Preblend),
 + 0.1 % of LTR (Preblend)

Fluid & Cement Data

Expected Cement Top: Surface

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	8.500	--	--	Feb 27, 2015 12:32
Water Based Mud	--	9.400	--	--	Oct 25, 2015 13:55

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Guide Shoe	8,539.000	Third Party
Float Collar	8,494.000	Third Party
Stage Tool Hydraulic (MSCC)	7,048.000	Third Party