



Pumping Service Report

9201393

Client Name NGL Water Solutions DJ, LLC	Well Name NGL C10	Rig Ensign Drilling Inc. 138	Job Date March 19,2015	Call Sheet 1056768
Client Representative Mr. Red Binge	Surface Well Location Sec 35:T7N:R65W	Down Hole Well Location	Job Type Surface Casing	Lead Supervisor Lopez, Armando (29064)

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)
12.250	30.000	0.000	641.000	--	--

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)
9.625	0.000	J-55	--	--	--	--	--	0.0	630.0

Products

Stage 1

From Depth (ft):	0
To Depth (ft):	630

Acids/Blends/Fluids :

Tail: 175 Sacks of Control Set C, Density = 13.5 lb/gal, Volume Pumped = 54 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 70
+ 0.25 lb/sack of Polyflake (Preblend)

Stage 2

From Depth (ft):	
To Depth (ft):	

Acids/Blends/Fluids :

Extra Cement: Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = (bbl)
+ 2 % of CaCl₂ (Prehydrate)

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

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Guide Shoe	630.000	Third Party
Guide/Float Shoe	582.000	Third Party

Tubular Plugs

Tubular Plug Type	Size (in)	Supplier
Rubber Top	9.625	Third Party

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

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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	03/19/2015 17:30	03/20/2015 00:30
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	03/19/2015 17:30	03/20/2015 00:30
446173	TRAILER	Bulker	746173	TRACTOR	Tandem - Tractor	03/19/2015 17:30	03/20/2015 00:30
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>	<u>Second Start Shift</u>	<u>Second End Shift</u>			
Lopez, Armando (29064)	03/19/2015 17:30	03/20/2015 00:30					
Prigmore, Dominic (27161)	03/19/2015 17:30	03/20/2015 00:30					
Peterson, Ryan (28158)	03/19/2015 17:30	03/20/2015 00:30					
Vasquez, Brandon (29989)	03/19/2015 17:30	03/20/2015 00:30					



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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	Mar 19,2015 17:30	Arrive On Location		--	--	--	--	0.00
2	Mar 19,2015 17:40	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Mar 19,2015 18:30	Rig in Complete		--	--	--	--	0.00
4	Mar 19,2015 21:30	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Mar 19,2015 22:02	Start - Fluid	Water	2.00	40.0	--	2.00	2.00
		Remarks: Fill lines						
6	Mar 19,2015 22:03	Pressure Test Start		--	3,000.0	--	--	0.00
7	Mar 19,2015 22:05	Pressure Test Complete		--	--	--	--	0.00
8	Mar 19,2015 22:08	Pump Spacer	Water	3.00	50.0	--	10.00	12.00
9	Mar 19,2015 22:13	Pump Spacer	Water	3.00	50.0	--	10.00	22.00
		Remarks: Red dye						
10	Mar 19,2015 22:19	Mix Cement	Control Set C	3.00	60.0	--	54.00	76.00
		Remarks: Pumped 175 sacks Density 13.5 Yield 1.74 Water 9.18						
11	Mar 19,2015 22:45	Drop Plug		--	--	--	--	76.00
		Remarks: 3rd party plug						
12	Mar 19,2015 22:46	Displace Fluid	Water	3.00	55.0	--	45.00	121.00
13	Mar 19,2015 23:04	Bump Plug		--	--	--	--	121.00
		Remarks: Pressure before plug landed was 230 psi. Landed plug with 880 psi						
14	Mar 19,2015 23:07	Check Float		--	--	--	--	121.00
		Remarks: Got 1/4 bbls back						
15	Mar 19,2015 23:10	Stop		--	--	--	--	0.00
16	Mar 19,2015 23:15	Wash		--	--	--	--	0.00
17	Mar 19,2015 23:45	Rig Out		--	--	--	--	0.00
18	Mar 20,2015 00:10	Job Complete		--	--	--	--	0.00
19	Mar 20,2015 00:15	Pre-Departure Meeting		--	--	--	--	0.00
20	Mar 20,2015 00:30	Leave Location		--	--	--	--	0.00

Did Float Hold: Yes

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 9

Temperature (°F) : 70

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

57741

57765

57742