



Pumping Service Report

9202083

Client Name NGL Water Solutions DJ, LLC	Well Name NGL C5	Rig	Job Date April 16,2015	Call Sheet 1057240
Client Representative Mr. Tom Majors	Surface Well Location Sec 29:T2N:R64W	Down Hole Well Location	Job Type Acid Wash	Lead Supervisor Plant, Thomas (20456)

Well Profile

Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	300.00 @ --
Bottom Hole Circulating Temperature (°F):	--- @ --
Bottom Hole Logged Temperature (°F):	--- @ --

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)
4.500	11.600	J-55	4,960.0	5,350.0	--	4.000	5.000	--	--

Size	Weight	Grade	Collapse Pressure	Capacity	I.D.	O.D.	Depth From	Depth To
(in)	(lb/ft)		(psi)	(bbl)	(in)	(in)	(ft)	(ft)
2.875	6.500	J-55	7,680.000	57.780	2.441	3.668	0.000	9,982.000

Products

Treatment Interval 1

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Treatment Acid: 1000 gal of 15% HCl
+ 25 gal/Mgal of AI-8 (Preblend),
+ 25 gal/Mgal of HTAI-6 (Preblend),
+ 25 gal/Mgal of HTAI-8 (Preblend),
+ 15 gal/Mgal of ICA-8 (Preblend),
+ 8 lb/Mgal of ICA-8C (Preblend),
+ 6 gal/Mgal of S-101 (Preblend)

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Apr 15, 2015 08:19



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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>
201247	PICKUP	1/2 Ton				04/16/2015 08:15	04/16/2015 13:00
443001	TRAILER	Acid Pumper	743001	TRACTOR	Tandem - Tractor	04/16/2015 08:15	04/16/2015 13:00
446904	TRAILER	Transport-Acid	746904	TRACTOR	Tandem - Tractor	04/16/2015 08:15	04/16/2015 13:00
Crew and Bonuses							
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>			<u>Second Start Shift</u>	<u>Second End Shift</u>	
Plant, Thomas (20456)	04/16/2015 08:15	04/16/2015 13:00					
Nansel, Thomas (23207)	04/16/2015 08:15	04/16/2015 13:00					
Rich, Ronald (25128)	04/16/2015 08:15	04/16/2015 13:00					
Smith, Lloyd (29276)	04/16/2015 08:15	04/16/2015 13:00					
McLean, Jaramie (30043)	04/16/2015 08:15	04/16/2015 13:00					
Granger, Joshua (28361)	04/16/2015 08:15	04/16/2015 13:00					



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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	Apr 16,2015 08:15	Arrive On Location		--	--	--	--	0.00
2	Apr 16,2015 08:30	Crew Briefing (Rig in)		--	--	--	--	0.00
3	Apr 16,2015 09:30	Rig in Complete		--	--	--	--	0.00
4	Apr 16,2015 09:45	Crew Briefing (Pre Job)		--	--	--	--	0.00
5	Apr 16,2015 10:11	Pump	Water	2.50	500.0	--	8.00	8.00
		Remarks: fill tubing						
6	Apr 16,2015 10:15	Pressure Test Start		--	--	--	--	8.00
		Remarks: pressure tested Sanjel iron to 6000 psi						
7	Apr 16,2015 10:16	Pressure Test Complete		--	--	--	--	8.00
8	Apr 16,2015 10:18	Injection Test	Water	1.50	1,000.0	--	4.75	12.75
9	Apr 16,2015 10:21	Stop		--	--	--	--	12.75
10	Apr 16,2015 10:22	Increase Pump Rate	Water	3.00	1,660.0	--	3.00	15.75
11	Apr 16,2015 10:23	Increase Pump Rate	Water	6.00	3,000.0	--	6.50	22.25
12	Apr 16,2015 10:24	Increase Pump Rate	Water	9.00	5,000.0	--	12.00	34.25
13	Apr 16,2015 10:26	Stop		--	--	--	--	34.25
14	Apr 16,2015 10:48	Pump	15% HCl	6.00	2,950.0	--	23.80	58.05
15	Apr 16,2015 10:52	Pump Displacement	Water	6.00	2,600.0	--	34.00	92.05
16	Apr 16,2015 10:59	Increase Pump Rate	Water	9.00	4,500.0	--	36.00	128.05
17	Apr 16,2015 11:03	Stop		--	--	--	--	128.05
18	Apr 16,2015 11:15	Pull Pipe		--	--	--	--	128.05
19	Apr 16,2015 12:14	Pump	Water	5.30	150.0	--	40.00	168.05
		Remarks: backside						
20	Apr 16,2015 12:24	Rig Out		--	--	--	--	168.05
21	Apr 16,2015 12:35	Job Complete		--	--	--	--	168.05
22	Apr 16,2015 13:00	Leave Location		--	--	--	--	168.05

Did Float Hold:

Fluid Returns : Not Expected

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

20647