HALLIBURTON

iCem® Service

EXTRACTION OIL & GAS

Date: Thursday, July 07, 2016

BRENIMAN #2 PRODUCTION

Job Date: Monday, June 20, 2016

Sincerely,

Julia Nichols

Legal Notice

Warning Disclaimer

Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

Limitations of Liability

Except as expressly set forth herein, there are no representations or warranties by Halliburton, express or implied, including implied warranties of merchantability and/or fitness for a particular purpose. In no event will Halliburton or its suppliers be liable for consequential, incidental, special, punitive or exemplary damages (including, without limitation, loss of data, profits, use of hardware, or software). Customer accepts full responsibility for any investment made based on results from the Software. Any interpretations, analyses or modeling of any data, including, but not limited to Customer data, and any recommendation or decisions based upon such interpretations, analyses or modeling are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional may differ. Accordingly, Halliburton cannot and does not warrant the accuracy, correctness or completeness of any such interpretation, recommendation, modeling or other products of the Software Product. As such, any interpretation, recommendation or modeling resulting from the Software for the purpose of any drilling, well treatment, production or financial decision will be at the sole risk of Customer. Under no circumstances will Halliburton or its suppliers be liable for any damages.

Table of Contents

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Breniman #2** cement **Production** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Approximately 65 barrels of cement were returned to surface.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Ft. Lupton]

HALLIBURTON

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 369404	Ship To #: 3615695	Quote #:		Sales Order #: 0903368443
Customer: EXTRACTION OIL & GAS		Customer Rep: LARRY		
Well Name: BRENIMAN	Well #: 2			API/UWI #: 05-123-40424-00
Field: WATTENBERG	City (SAP): WINDSOR	County/Parish: WELD		State: COLORADO
Legal Description: NE NW-16-6N-67W-483FNL-2127FWL				
Contractor: PATTERSON-UTI ENERGY		Rig/Platform Name/Num: PATTERSON 346		
Job BOM: 7523				
Well Type: HORIZONTAL OIL				
Sales Person: HALAMERICA\HX38199		Srvc Supervisor: Joseph Fantasia		

Job

Formation Name			
Job depth MD	17443ft	Job Depth TVD	

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36			0	1586		
Casing		5.5	4.778	20			0	17443		
Open Hole Section			7.875				1586	17443		

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	50	bbl	11.5	3.74	23.7	5	42
35.40 gal/bbl		FRESH WATER				∘			
149.34 lbm/bbl		BARITE, 100 LB SK (100003680)							
0.30 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)							
0.30 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	ElastiCem	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		8	7.48
7.48 Gal		FRESH WATER							
0.80 %		HR-5, 50 LB SK (100005050)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal

iCem® Service
(v. 4.2.393)

Created: Thursday, July 07, 2016

HALLIBURTON

HALLIBURTON

Cementing Job Summary

3	ElastiCem W/ Super CBL	ELASTICEM (TM) SYSTEM	2100	sack	13.2	1.57		8	7.49
7.49 Gal		FRESH WATER							
0.80 %		HR-5, 50 LB SK (100005050)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	386	bbl	8.33			10	

Cement Left In Pipe	Amount	5 ft		Reason		Shoe Joint

Comment APPROX 65 BBLS CEMENT TO SURFACE.

iCem® Service
(v. 4.2.393)

Created: Thursday, July 07, 2016

HALLIBURTON

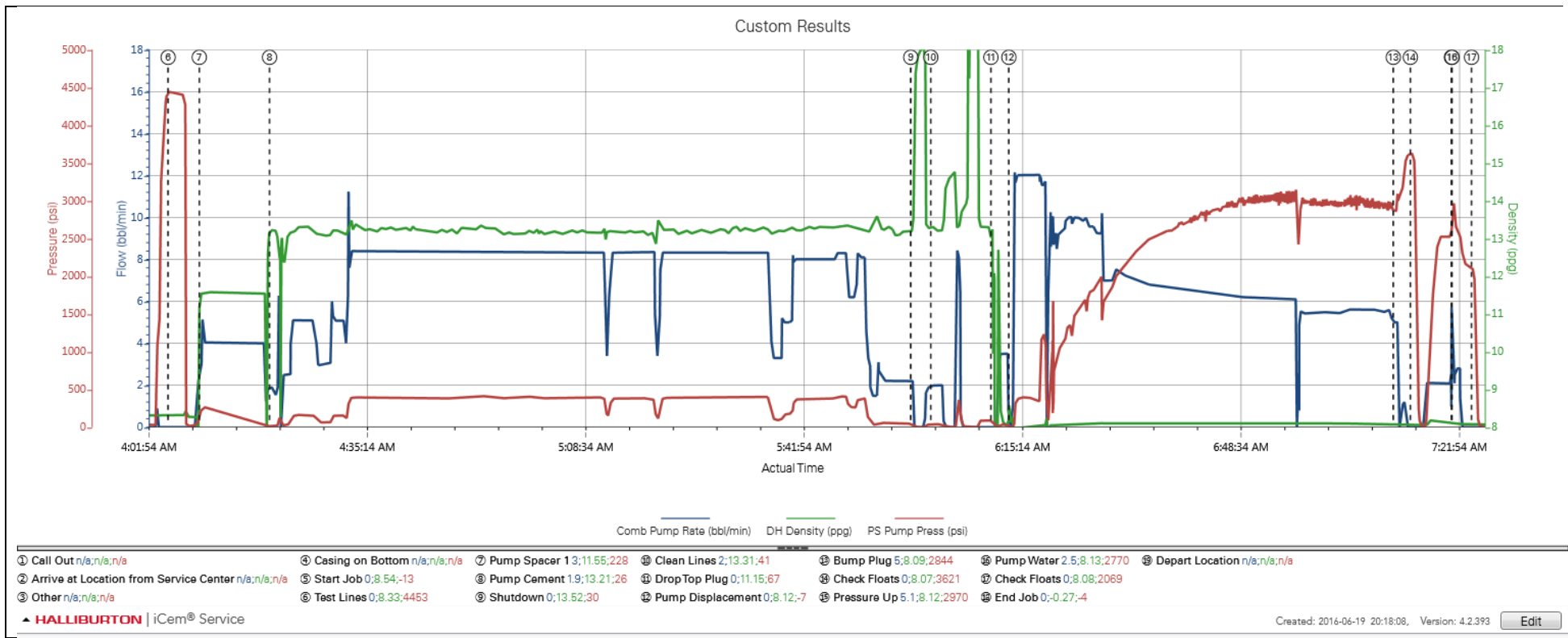## 2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Combined Pump Rate (bbl/min)	Downhole Density (ppg)	Pass-Side Pump Pressure (psi)	Comments
Event	1	Call Out	Call Out	6/19/2016	13:00:00	USER				CALL OUT AT 1300 REQUESTED ON LOCATION AT 2000.
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	6/19/2016	19:00:00	USER				ARRIVE ON LOCATION AT 1900. HELD SITE ASSESSMENT AND PRE RIG UP SAFETY MEETING WITH CREW PRIOR TO RIGGING UP EQUIPMENT.
Event	3	Water Test Results	Water Test Results	6/19/2016	19:30:00	USER				WATER TEST -- TEMP 75 -- CHLORIDES 0 -- PH 7
Event	4	Casing on Bottom	Casing on Bottom	6/20/2016	03:00:00	USER				CASING ON BOTTOM AT 0300.
Event	5	Start Job	Start Job	6/20/2016	03:57:40	COM6				HELD PRE JOB SAFETY MEETING WITH ALL PRESENT PERSONNELL PRIOR TO STARTING JOB.
Event	6	Test Lines	Test Lines	6/20/2016	04:05:10	COM6	0.00	8.33	4453.00	PRESSURE TEST LINES TO 4500 PSI.
Event	7	Pump Spacer 1	Pump Spacer 1	6/20/2016	04:09:56	COM6	3.00	11.55	228.00	PUMP 50 BBLS TUNED SPACER MIXED AT 11.5 PPG. 15 GALLONS OF MUSOL A AND 15 GALLONS OF DUAL SURFACTANT B ADDED TO SPACER. 5 GALLONS D AIR ADDED TO CONTROL AIR ENTRAINMENT. DENSITY WAS VERIFIED BY PRESSURIZED MUD SCALES TO BE 11.5PPG.
Event	8	Pump Cement	Pump Cement	6/20/2016	04:20:39	COM6	1.90	13.21	26.00	PUMP 629 BBLS (2250 SKS) ELASTICEM MIXED AT 13.2 PPG. DENSITY VERIFIED BY SCALE. THE FIRST 42 BARRELS CONTAINED NO CBL.
Event	9	Shutdown	Shutdown	6/20/2016	05:58:31	COM6				
Event	10	Clean Lines	Clean Lines	6/20/2016	06:01:34	COM6				BLOW DOWN LINES FROM RIG FLOOR. WASH PUMPS TO PIT.
Event	11	Drop Top Plug	Drop Top Plug	6/20/2016	06:10:45	COM6				3RD PARTY TOP PLUG DROPPED DURING SHUTDOWN.
Event	12	Pump Displacement	Pump Displacement	6/20/2016	06:13:29	COM6	0.00	8.32	7.00	DISPLACE USING 386 BBLS FRESH WATER. GOOD RETURNS THROUGHOUT. RUBBER AND POLYFLAKE TO SURFACE AT 200 BBLS AWAY. SPACER TO SURFACE AT 271 BBLS AWAY AND CEMENT TO SURFACE AT 321 BBLS AWAY. APPROX 65 BBLS CEMENT TO SURFACE.

iCem® Service

Event	13	Bump Plug	Bump Plug	6/20/2016	07:12:10	USER	5.00	8.09	2844.00	PLUG LANDED AT 2881 PSI. PRESSURE BROUGHT TO 3600 PSI AND HELD 2 MIN.
Event	14	Check Floats	Check Floats	6/20/2016	07:14:46	USER	0.00	8.07	3621.00	FLOATS HELD. 4.5 BBLS BACK TO TRUCK
Event	15	Pressure Up	Pressure Up	6/20/2016	07:21:02	USER	5.10	8.12	2970.00	PRESSURE UP TO 3000 PSI TO RUPTURE PLUG.
Event	16	Pump Water	Pump Water	6/20/2016	07:21:08	USER	2.50	8.33	2770.00	PUMP 5 BBLS FRESH WATER FOR WET SHOE.
Event	17	Check Floats	Check Floats	6/20/2016	07:24:06	USER	0.00	8.08	2069.00	FLOATS HELD. 3.5 BBLS BACK TO TRUCK.
Event	18	End Job	End Job	6/20/2016	08:02:40	COM6				HELD PRE RIG DOWN SAFETY MEETING WITH CREW PRIOR TO RIGGING DOWN EQUIPMENT.
Event	19	Depart Location	Depart Location	6/20/2016	08:30:00	USER				DEPART LOCATION

3.0 Attachments

3.1 Custom Results – Job Chart with Events

Custom Results

① Call Out n/a;n/a;n/a	④ Casing on Bottom n/a;n/a;n/a	⑦ Pump Spacer 1 3;11.55;228	⑩ Clean Lines 2;13.31;41	⑬ Bump Plug 5;8.09;2844	⑯ Pump Water 2.5;8.13;2770	⑲ Depart Location n/a;n/a;n/a
② Arrive at Location from Service Center n/a;n/a;n/a	⑤ Start Job 0;8.54;-13	⑧ Pump Cement 1.9;13.21;26	⑪ Drop Top Plug 0;11.15;67	⑭ Check Floats 0;8.07;3621	⑰ Check Floats 0;8.08;2069	
③ Other n/a;n/a;n/a	⑥ Test Lines 0;8.33;4453	⑨ Shutdown 0;13.52;30	⑫ Pump Displacement 0;8.12;-7	⑮ Pressure Up 5.1;8.12;2970	⑱ End Job 0;-0.27;-4	

HALLIBURTON | iCem® Service

Created: 2016-06-19 20:18:08, Version: 4.2.393   Edit

HALLIBURTON

3.2   Custom Results – Job Chart without Events

Custom Results

Comb Pump Rate (bbl/min)   DH Density (ppg)   PS Pump Press (psi)

HALLIBURTON | iCem® Service   Created: 2016-06-19 20:18:08,   Version: 4.2.393   Edit

iCem® Service
(v. 4.2.393)
Created: Thursday, July 07, 2016