iCem[®] Service

TAPSTONE ENERGY LLC

For:

Date: Thursday, December 04, 2014

Mangen 1H

Case 1

Sincerely,

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.

© 2014 Halliburton. All Rights Reserved

Ta	4	10	of	00	nto	nte
- 100	m	62	CAT	1 (3	nra	DIE

To Generate a Table of Contents, right click here. Click "Update Field." If prompted, select "Entire Table."

TAPSTONE ENERGY LLC 0901888780 Case 1

HALLIBURTON

1.0 Job Design

1.1 Time of Stages

Graph Label	Time (min)	Stage Starts Pumping	Stage Enters Annulus
1	0	Depart Location	
2	0	Pre-Rig Down Safety Meeting	
3	0	Pre-Convoy Safety Meeting	
4	0	Rig-Down Completed	
(5)	0	Other	

Shutdown Summary

4.4

TAPSTONE ENERGY LLC 0901888780 Case 1

2.0 Hydraulics Summary
3.0 Temperature Modeling
4.0 Real-Time Job Summary
4.1 Stage Summary - Liquid Volume, Density, & Design Shutdown
4.2 Stage Summary - Pump Pressure & ECD
4.3 Stage Summary - Pump Rate & Nitrogen Rate

Job Event Log

Туре	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	12/4/2014	07:00:00	USER				
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	12/4/2014	08:30:00	USER				use smith driving skil know route
Event	3	Arrive At Loc	Arrive At Loc	12/4/2014	11:30:00	USER				
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	12/4/2014	11:45:00	USER				watch pinch points sl falls stay hydrated
Event	5	Rig-Up Completed	Rig-Up Completed	12/4/2014	12:30:00	USER				
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	12/4/2014	12:40:00	USER				Stay away from red ii dont step over stay hydrated
Event	7	Test Lines	Test Lines	12/4/2014	12:44:09	COM5	3000.00	8.34	0.00	test 500psi low 3000 high good test
Event	8	Pump Spacer 1	Pump Spacer 1	12/4/2014	12:46:39	COM5	87.00	8.34	4.00	pumped 10bbls wate ahead good returns
Event	9	Pump Lead Cement	Pump Lead Cement	12/4/2014	12:49:45	COM5	118.00	12.40	4.00	pumped 87bbls (230s 12.4# good returns
Event	10	Pump Tail Cement	Pump Tail Cement	12/4/2014	13:06:10	COM5	186.00	15.60	5.00	pumped 32bbls (150s 15.6# good returns
Event	11	Shutdown	Shutdown	12/4/2014	13:12:00	USER				
Event	12	Drop Top Plug	Drop Top Plug	12/4/2014	13:13:00	USER				
Event	13	Pump Displacement	Pump Displacement	12/4/2014	13:13:44	COM5	126.00	8.34	5.00	pumped 59bbls of wa good returns
Event	14	Other	Other	12/4/2014	13:14:00	USER	125.00	8.34	5.00	cement to surface 59 back
Event	15	Bump Plug	Bump Plug	12/4/2014	13:29:20	COM5	770.00	8.34	0.00	bumped plug 500 ovo 800psi
Event	16	Check Floats	Check Floats	12/4/2014	13:30:30	USER				floats held 1/2 bbl ba
Event	17	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	12/4/2014	13:45:00	USER				watch pinch points sl falls stay hydrated
Event	18	Rig-Down Completed	Rig-Down Completed	12/4/2014	14:10:00	USER				
Event	19	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	12/4/2014	14:15:00	USER				use smith driving skil know route

HALLIBURTON TAPSTONE ENERGY

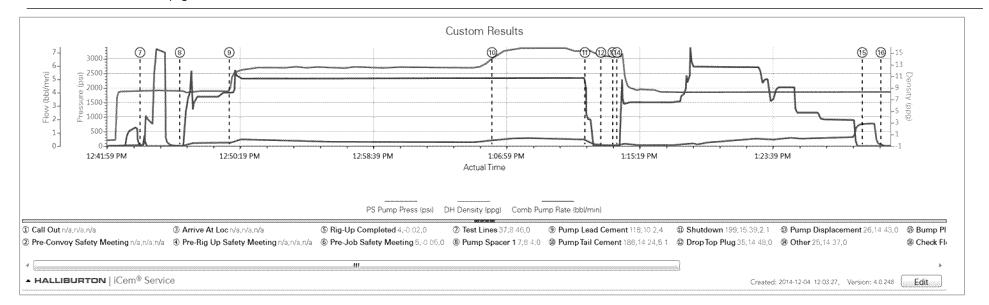
0901888

Туре	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	20	Depart Location	Depart Location	12/4/2014	14:45:00	USER				

09018887

5.0 Attachments

5.1 Case 1-Custom Results.png

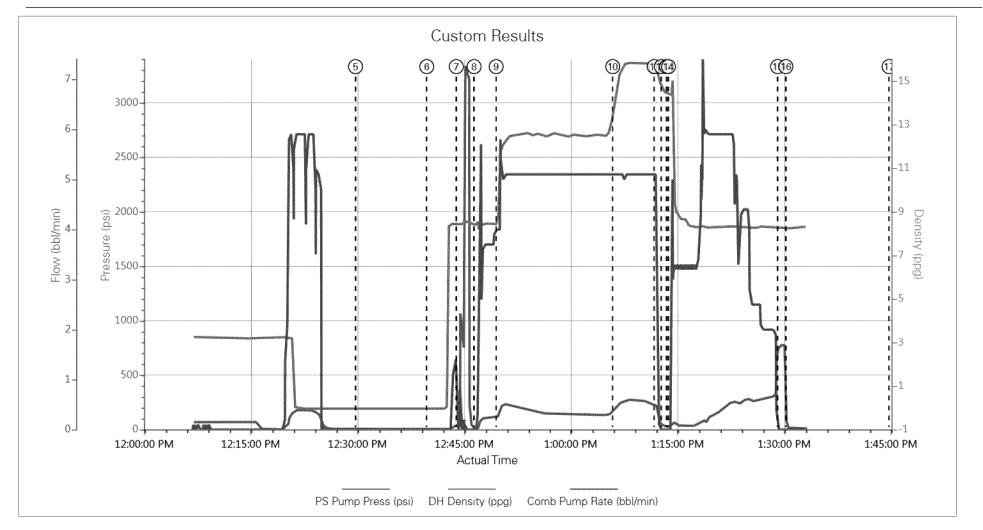


Cas

HALLIBURTON

6.0 Custom Graphs

6.1 Custom Graph



TAPSTONE ENERGY LLC 0901888780 Case 1

7.0 Appendix

TAPSTONE ENERGY

0901888

iCem[®] Servi

TAPSTONE ENERGY LLC 0901888780 Case 1

7.1 One-Minutes Real-Time Data Listing