iCem® Service

TAPSTONE ENERGY LLC

For:

Date: Wednesday, January 07, 2015

Schupbach 33-2h

Case 1

Sincerely,

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1.0 Job Design

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1.1 Time of Stages

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

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- 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
- 4.4 Shutdown Summary

4.5 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	1/7/2015	02:00:00	USER				
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/7/2015	03:30:00	USER				use smith driving skills stay on route know your route
Event	3	Arrive At Loc	Arrive At Loc	1/7/2015	06:30:00	USER				
Event	4	Other	Other	1/7/2015	08:00:00	USER				wait on rig to run casing
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/7/2015	14:30:00	USER				watch slips falls line of fire stay hydrated
Event	6	Rig-Up Completed	Rig-Up Completed	1/7/2015	15:15:00	USER				
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/7/2015	15:30:00	USER				dont step over psi iron watch out for each other stay hydrated
Event	8	Test Lines	Test Lines	1/7/2015	15:51:08	COM5	3000.00	8.34	0.00	test lines 500psi low 3000psi high good test
Event	9	Pump Spacer 1	Pump Spacer 1	1/7/2015	15:53:49	COM5	76.00	8.34	3.00	pumped 10bbls water ahead good returns
Event	10	Pump Cement	Pump Cement	1/7/2015	15:57:08	COM5	162.00	15.00	5.00	pump 115bbls (490sks) at 15# good returns
Event	11	Shutdown	Shutdown	1/7/2015	16:22:00	USER				
Event	12	Drop Top Plug	Drop Top Plug	1/7/2015	16:26:00	USER				
Event	13	Pump Displacement	Pump Displacement	1/7/2015	16:26:09	COM5	323.00	8.34	6.00	pump 60bbls of water good returns
Event	14	Other	Other	1/7/2015	16:35:00	USER				40bbls cement back to surface
Event	15	Bump Plug	Bump Plug	1/7/2015	16:47:46	COM5	882.00	8.34	0.00	Bumped plug 330 to 880 psi
Event	16	Check Floats	Check Floats	1/7/2015	16:50:45	USER				floats holding 1/2 bbl back
Event	17	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/7/2015	16:55:00	USER				watch slips falls line of fire stay hydrated
Event	18	Rig-Down Completed	Rig-Down Completed	1/7/2015	17:15:00	USER				

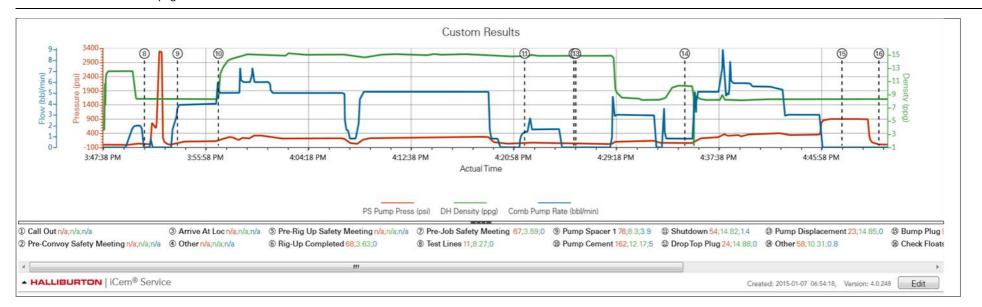
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Туре	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	19	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/7/2015	17:20:00	USER				use smith driving skills stay on route know your route
Event	20	Depart Location	Depart Location	1/7/2015	17:45:00	USER				

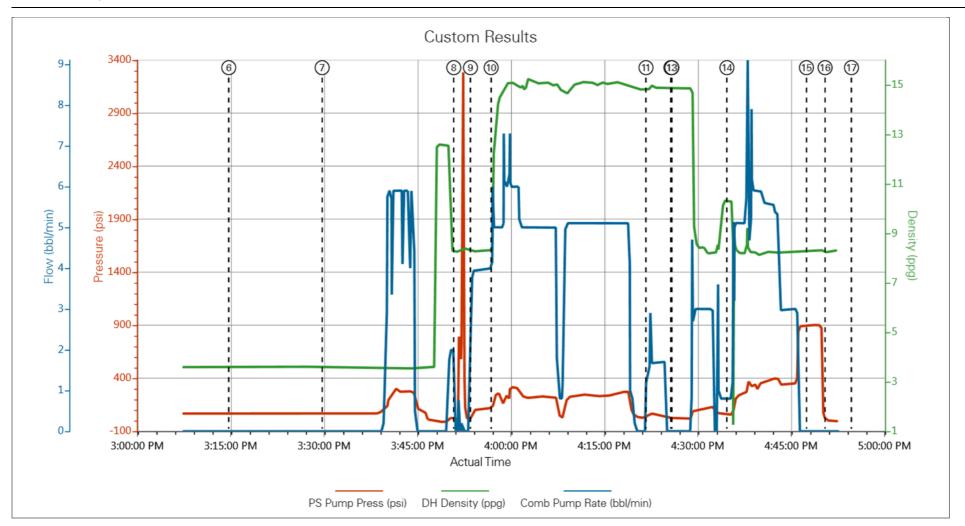
5.0 Attachments

5.1 Case 1-Custom Results.png



6.0 Custom Graphs

6.1 Custom Graph



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7.0 Appendix

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7.1 One-Minutes Real-Time Data Listing