

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

Date: Saturday, December 01, 2018

GM 511-8 Surface

Terra GM 511-8 Surface

API# 05-045-24109-00

Job Date: Saturday, December 01, 2018

Sincerely,

Grand Junction Cement Engineering

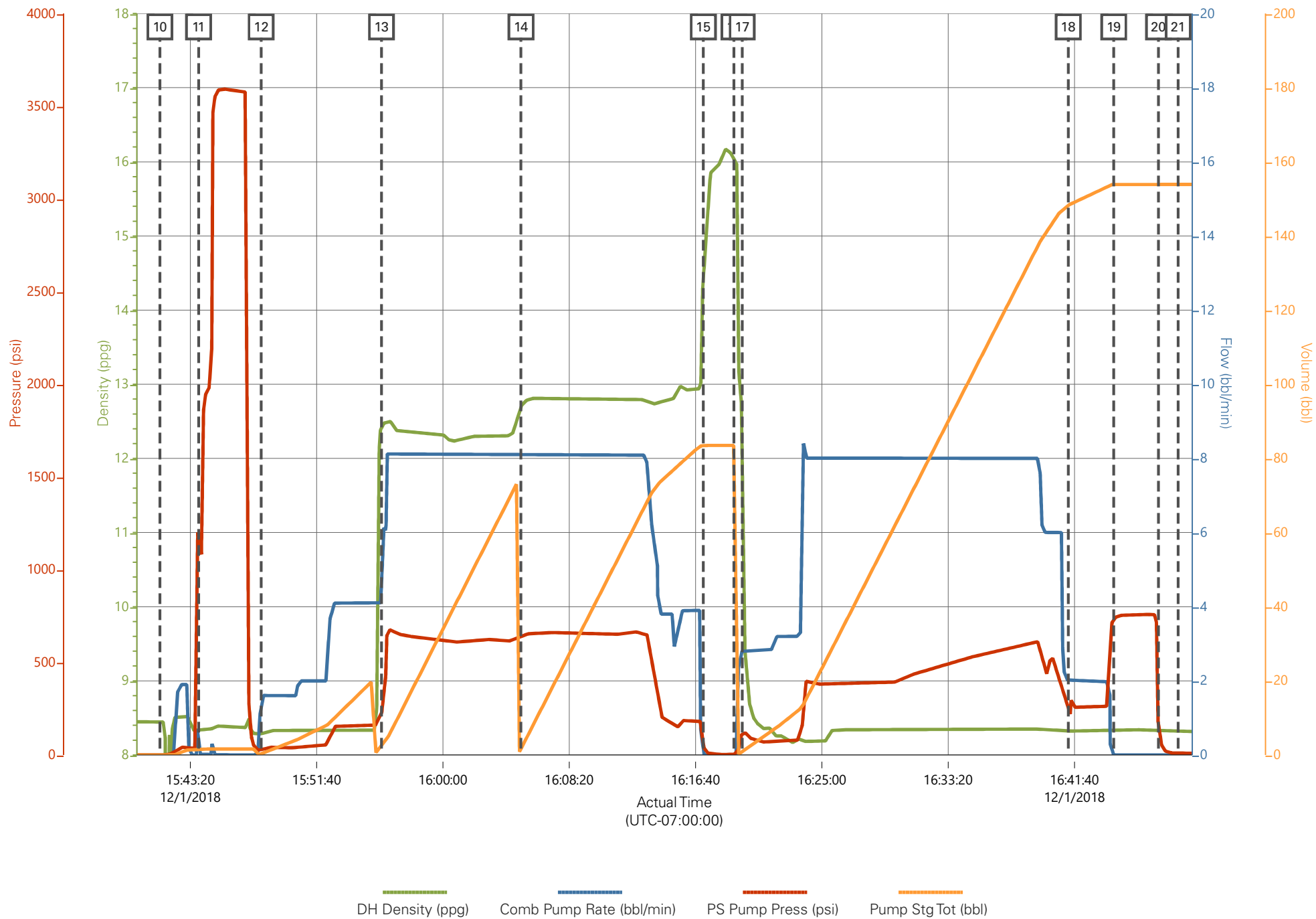
1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	12/1/2018	06:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	12/1/2018	08:50:00	USER					
Event	3	Crew Leave Yard	12/1/2018	09:00:00	USER					
Event	4	Arrive At Loc	12/1/2018	10:30:00	USER					REQUESTED ON LOC TIME WAS 1200, CREW ARRIVED AT 1030. RIG WAS FINISHING PULLING OUT OF HOLE
Event	5	Assessment Of Location Safety Meeting	12/1/2018	10:35:00	USER					
Event	6	Spot Equipment	12/1/2018	10:45:00	USER					
Event	7	Rig-Up Equipment	12/1/2018	10:50:00	USER					
Event	8	Rig-Up Equipment	12/1/2018	11:00:00	USER					
Event	9	Pre-Job Safety Meeting	12/1/2018	13:30:00	USER					
Event	10	Start Job	12/1/2018	15:41:20	COM5					TD: 1040 TP: 1045 SJ: 33.9 MW: 9.2PPG 13 3/8" 54.5#/FT CSG IN 17 1/2" OH WATER TEST: PH: 7 POTASSIUM: 450 CHLORIDES: 0 SULFATES: <200 TEMP: 62 DEGREES
Event	11	Test Lines	12/1/2018	15:43:53	COM5	8.33	0.00	3000.00	0.00	3000 PSI TEST SUCCESSFUL
Event	12	Pump Spacer 1	12/1/2018	15:48:01	COM5	8.29	4.00	130.00	20.00	FRESH H2O SPACER
Event	13	Pump Lead Cement	12/1/2018	15:55:57	COM5	12.30	8.00	614.00	74.2	175 SKS @ 12.3 PPG 2.38 YLD 13.78 GAL/SK H2O

Event	14	Pump Tail Cement	12/1/2018	16:05:09	COM5	12.80	8.00	632.00	80.80	215 SKS @ 12.8 PPG 2.11 YLD 11.78 GAL/SK H2O
Event	15	Shutdown	12/1/2018	16:17:11	COM5					
Event	16	Drop Top Plug	12/1/2018	16:19:12	COM5					PLUG AWAY
Event	17	Pump Displacement	12/1/2018	16:19:45	COM5	8.33	8.00	580.00	156.30	
Event	18	Slow Rate	12/1/2018	16:41:15	COM5	8.33	2.00	266.00	146.30	
Event	19	Bump Plug	12/1/2018	16:44:15	COM5	8.34	0.00	734.00	156.30	PLUG BUMPED AT CALCULATED DISPLACEMENT
Event	20	Check Floats	12/1/2018	16:47:12	COM5					FLOATS HELD, GAINED 1 BBL BACK TO PUMP
Event	21	End Job	12/1/2018	16:48:30	COM5					
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	12/1/2018	17:00:00	USER					GOOD CIRCULATION THROUGHOUT JOB. PIPE WAS LEFT STATIC THROUGHOUT JOB. CIRCULATED 40 BBL CEMENT TO SUFACE. NO SUGAR USED.
Event	23	Rig-Down Equipment	12/1/2018	17:05:00	USER					USED CUSTOMER SUPPLIED TOP PLUG, NO ADD HOURS CHARGED
Event	24	Depart Location Safety Meeting	12/1/2018	17:55:00	USER					
Event	25	Crew Leave Location	12/1/2018	18:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENTING ANTHONY ANDREWS AND CREW

TEP - FEDERAL GM 511-8 - 13 3/8" SURFACE



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