

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

For: TEP

Date: Friday, November 09, 2018

SG 423-26 Surface PJR

API #: 05-045-23947

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	11/9/2018	03:00:00	USER					REQUESTED ON LOCATION TIME 08:30
Event	2	Depart Yard Safety Meeting	11/9/2018	05:30:00	USER					WITH HES, 1 F-550, 1 ELITE CEMENTING UNIT, 1 660 BULK TRUCK, JSA COMPLETED
Event	3	Arrive At Loc	11/9/2018	06:45:00	USER					RIG RUNNING CASING UPON HES, ARRIVAL
Event	4	Assessment Of Location Safety Meeting	11/9/2018	07:00:00	USER					WITH HES, JSA COMPLETED, SDS OFFERED FOR ALL HES MATERIALS
Event	5	Pre-Rig Up Safety Meeting	11/9/2018	07:20:00	USER					WITH HES, JSA COMPLETED
Event	6	Rig-Up Equipment	11/9/2018	07:30:00	USER					1 LINE RAN TO THE FLOOR, 1 9.625 IN QUICK-LATCH PLUG CONTAINER
Event	7	Other	11/9/2018	07:45:00	USER					TD 1005 FT, CSG 1012 FT 9.625 IN 32.3 LB/FT H-40, HOLE 13.5 IN, SHOE 41.95 FT
Event	8	Other	11/9/2018	09:55:42	USER					RIG CIRCULATION, 200 BBL, 11 BBL/MIN, 188 PSI, RAT HOLE LENGTH 7 FT, PIPE WAS STATIC, MW 10.4 LB/GAL WBM
Event	9	Other	11/9/2018	09:55:45	USER					WATER TEST PH 7.0 , CHLOR 200, TEMP 75 DEG F
Event	10	Pre-Job Safety Meeting	11/9/2018	09:55:46	USER					WITH HES, TEP, AND H&P 271
Event	11	Start Job	11/9/2018	09:55:47	USER					
Event	12	Start Job	11/9/2018	12:46:20	COM4	-9.00	8.54	0.00	0.00	
Event	13	Fill Lines	11/9/2018	12:47:27	USER	60.00	8.56	1.90	0.80	4 BBL FRESH WATER, RETURNS AT 2 BBL AWAY
Event	14	Test Lines	11/9/2018	12:51:03	USER	3421.00	8.57	0.00	3.70	LOW TEST AT 880 PSI, HIGH TEST AT 3421 PSI, PRESSURE HOLDING
Event	15	Pump Fresh Water Spacer	11/9/2018	12:53:34	USER	56.00	8.48	2.00	20.0	20 BBL FRESH WATER

Event	16	Pump Lead Cement	11/9/2018	13:02:22	USER	156.00	12.26	4.00	42.60	MIXED AT 12.3 LB/GAL, 100 SKS, 2.38 FT3/SK, 13.77 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	17	Pump Tail Cement	11/9/2018	13:09:11	USER	415.00	12.80	7.90	66.00	MIXED AT 12.8 LB/GAL, 175 SKS, 2.11 FT3/SK, 11.78 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	18	Shutdown	11/9/2018	13:16:54	USER	117.00	14.18	0.00	66.50	
Event	19	Drop Top Plug	11/9/2018	13:19:38	USER	-14.00	13.71	0.00	66.50	PLUG LAUNCHED, CUSTOMER WITNESSED
Event	20	Pump Displacement	11/9/2018	13:21:55	USER	31.00	9.35	10.00	1.40	FRESH WATER
Event	21	Slow Rate	11/9/2018	13:32:17	USER	202.00	8.35	2.00	65.0	SLOWED AT 68 BBL AWAY TO 2 BBL/MIN
Event	22	Bump Plug	11/9/2018	13:35:08	USER	208.00	8.36	2.00	75.8	PLUG BUMPED AT CALCULATED DISPLACEMENT, 211 PSI
Event	23	Check Floats	11/9/2018	13:36:36	USER	909.00	8.37	0.00	74.50	FLOATS HOLDING 900 PSI, .5 BBL RETURNED TO THE TRUCK
Event	24	End Job	11/9/2018	13:40:00	USER					GOOD CIRCULATION, RIG USED HES TOP PLUG, RIG USED 40 LBS SUGAR, NO ADD HOURS
Event	25	Pre-Rig Down Safety Meeting	11/9/2018	13:45:00	USER					WITH HES, JSA COMPLETD
Event	26	Rig Down Lines	11/9/2018	13:50:00	USER					
Event	27	Pre-Convoy Safety Meeting	11/9/2018	14:00:00	USER					WITH HES, JSA COMPLETED
Event	28	Other	11/9/2018	14:10:00	USER					SPACER 20 BBL FRESH WATER, LEAD CEMENT 42.4 BBL, TAIL CEMENT 65.7 BBL, FINAL DISPLACEMENT 78 BBL, 20 BBL CEMENT CIRCULATED TO SURFACE, TOP OF TAIL CEMENT 284 FT
Event	29	Crew Leave Location	11/9/2018	14:15:00	USER					THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

3.0 Attachments

3.1 TEP-SG-423-26-SURFACE.png

