

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United States of America, COLORADO

For: Terra

Date: Thursday, November 08, 2018

SG-523-26 Production

API#05-045-23945

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 (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	11/8/2018	02:00:00	USER					REQUESTED ON LOCATION TIME 08:00
Event	2	Pre-Convoy Safety Meeting	11/8/2018	05:00:00	USER					WITH HES, JSA COMPLETED, 1 F-550, 1 ELITE CEMENTING UNIT, 1 660 BULK TRUCK
Event	3	Arrive At Loc	11/8/2018	06:45:00	USER					RIG RUNNING CASING UPON, HES ARRIVAL
Event	4	Pre-Rig Up Safety Meeting	11/8/2018	07:10:00	USER					WITH HES, 1 LINE RAN TO THE FLOOR, 1 LINE RAN TO THE PIT, MANIFOLD ON THE GROUND, 1 4.5 IN QUICK-LATCH PLUG CONTAINER
Event	5	Assessment Of Location Safety Meeting	11/8/2018	07:30:00	USER					WITH HES, JSA COMPLETED, SDS OFFERED FOR ALL HES MATERIALS
Event	6	Rig-Up Equipment	11/8/2018	07:45:00	USER					
Event	7	Water Test	11/8/2018	08:00:00	USER					TEMP 75 DEG F, PH 8.0, CHLOR 0
Event	8	Comment	11/8/2018	08:10:00	USER					TD 5723 FT, TP 5716 4.5 IN 11.6 LB/FT P-110, HOLE 8.75 IN, SHOE 28.45 FT, SURFACE SET AT 1026 FT 9.625 IN 36 LB/FT J-55
Event	9	Comment	11/8/2018	08:15:00	USER					RIG CIRCULATION, 390 BBL, 12 BBL/MIN, 1070 PSI, MWT 10.4 LB/GAL WBM, PIPE WAS RECIPROCATED, RAT HOLE LENGTH 7 FT, PASON GAS 283 UNITS, PV/YP 7/15, GEL STRENGTH 6/28/46
Event	10	Start Job	11/8/2018	10:20:49	COM4	-7.00	8.58	0.00	0.00	
Event	11	Pre-Job Safety Meeting	11/8/2018	10:30:00	USER	-7.00	8.57	0.00	0.00	WITH HES, TEP, AND H&P 271
Event	12	Fill Lines	11/8/2018	10:47:43	USER	177.00	8.59	1.90	0.80	5 BBL FRESH WATER, RETURNS AT 3 BBL AWAY
Event	13	Test Lines	11/8/2018	10:52:49	USER	5323.00	8.65	0.00	5.10	LOW TEST AT 1800 PSI, HIGH TEST AT 5323 PSI, PRESSURE HOLDING
Event	14	Pump Fresh Water	11/8/2018	11:00:50	COM4	183.00	8.53	2.00	10.0	10 BBL FRESH WATER

Event	15	Pump Mud Flush III	11/8/2018	11:05:54	USER	247.00	8.51	2.30	20.0	MIXED AT 8.4 LB/GAL, 20 BBL , 80 LBS MUD FLUSH III USED
Event	16	Pump Fresh Water	11/8/2018	11:11:19	COM4	413.00	8.51	3.90	10.0	10 BBL FRESH WATER
Event	17	Pump Cement	11/8/2018	11:14:55	USER	658.00	12.65	3.90	356.00	MIXED AT 12.5 LB/GAL (NEOCEM), 1021 SKS, 1.96 FT3/SK, 9.40 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	18	Shutdown	11/8/2018	12:39:37	USER	151.00	12.61	2.90	356.0	
Event	19	Clean Lines	11/8/2018	12:42:39	USER	7.00	13.02	0.00	0.00	WASHED PUMPS AND LINES TO THE RESERVE PIT
Event	20	Drop Top Plug	11/8/2018	12:46:12	USER	180.00	8.37	2.70	0.00	PLUG LAUNCHED, CUSTOMER WITNESSED
Event	21	Pump Displacement	11/8/2018	12:49:07	USER	1194.00	8.41	10.00	0.00	FRESH WATER, 1 GAL MMCR, 90 LBS KCL, 3 LBS BE-6 ADDED
Event	22	Slow Rate	11/8/2018	12:56:16	USER	1044.00	8.39	4.00	78.00	SLOWED AT 78 BBL AWAY TO 4 BBL/MIN
Event	23	Bump Plug	11/8/2018	12:57:46	USER	1126.00	8.39	4.00	88.00	PLUG BUMPED AT CALCULATED DISPLACEMENT, 1126 PSI
Event	24	Check Floats	11/8/2018	13:00:38	USER	1779.00	8.43	0.00	88.00	FLOATS HOLDING, 1780 PSI, PRESSURE HOLDING, 1 BBL RETURNED TO THE TANKS
Event	25	End Job	11/8/2018	13:10:00	USER					GOOD CIRCULATION, NO ADD HOURS, RIG USED 40 LBS SUGAR, RIG USED TOP PLUG, 1 GAL MMCR ,3 LBS BE-6
Event	26	Pre-Rig Down Safety Meeting	11/8/2018	13:20:00	USER					WITH HES, JSA COMPLETED
Event	27	Rig Down Lines	11/8/2018	13:30:00	USER					
Event	28	Pre-Convoy Safety Meeting	11/8/2018	13:50:00	USER					WITH HES, JSA COMPLETED
Event	29	Comment	11/8/2018	14:00:00	USER					SPACER 20 BBL FRESH WATER, 20 BBL MUD FLUSH III, CEMENT 356 BBL, FINAL DISPLACEMENT 88 BBL, 40 BBL SPACER CIRCULATED TO SURFACE, TRACE OF CEMENT CIRCULATED TO SURFACE, ESTIMATED TOP OF CEMENT 200 FT
Event	30	Crew Leave Location	11/8/2018	14:10:00	USER					THANKS FOW USING HALLIBURTON, JOHN KEANE AND CREW

3.0 Attachments

3.1 TEP-SG-523-26-Production.png

