

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

United States of America, COLORADO

Date: Tuesday, March 12, 2019

### **Trail Ridge 624-22-597 Surface**

Terra Trail Ridge 624-22-597 Surface

API# 05-045-23701-00

Job Date: Friday, February 22, 2019

Sincerely,

**Grand Junction Cement Engineering**

## 1.0 Real-Time Job Summary

## 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Standby Other	CALL OUT	2/22/2019	03:30:00	USER					
Event	2	Standby Other	CREW LEAVE YARD	2/22/2019	06:00:00	USER					
Event	3	Standby Other	ARRIVE AT LOCATION	2/22/2019	09:30:00	USER					RIG RUNNING CASING
Event	4	Standby Other	PRE JOB SAFETY MEETING	2/22/2019	16:00:00	USER					
Event	5	Standby Other	START JOB	2/22/2019	16:59:34	USER					
Event	6	Test Lines	Test Lines	2/22/2019	17:03:21	COM5			3524.00		3524 PSI
Event	7	Pump Spacer 2	Pump Spacer 2	2/22/2019	17:07:15	COM5	8.33	4.00	177.00	5.0	FRESH WATER
Event	8	Pump Spacer 1	Pump Spacer 1	2/22/2019	17:08:38	COM5	11.80	4.00	409.00	10.00	SUPERFLUSH
Event	9	Pump Spacer 2	Pump Spacer 2	2/22/2019	17:11:02	COM5	8.33	4.00	198.00	5.00	FRESH WATER
Event	10	Pump Spacer 1	Pump Spacer 1	2/22/2019	17:12:23	COM5	10.00	4.00	141.00	10.00	CALCIUM CHLORIDE 50 LBS/BBL
Event	11	Pump Spacer 2	Pump Spacer 2	2/22/2019	17:14:54	COM5	8.33	4.00	126.00	5.00	FRESH WATER
Event	12	Pump Spacer 1	Pump Spacer 1	2/22/2019	17:16:18	COM5	11.80	4.00	307.00	10.00	SUPERFLUSH
Event	13	Pump Spacer 2	Pump Spacer 2	2/22/2019	17:18:30	COM5	8.33	4.00	111.00	5.00	FRESH WATER
Event	14	Pump Spacer Behind	Pump Spacer Behind	2/22/2019	17:19:51	USER	10.00	4.00	98.00	10.00	CALCIUM CHLORIDE 50 LBS/BBL
Event	15	Pump Spacer Behind	Pump Spacer Behind	2/22/2019	17:22:49	USER	8.33	4.00	106.00	10.00	FRESH WATER
Event	16	Pump Lead Cement	Pump Lead Cement	2/22/2019	17:24:59	COM5	12.30	8.00	440.00	390.4	925 SKS VARICEM, 12.3 PPG, 2.37 FT3/SK, 13.74 GAL/SK
Event	17	Pump Tail Cement	Pump Tail Cement	2/22/2019	18:20:46	COM5	12.80	8.00	459.00	129.6	345 SKS VARICEM, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Event	18	Standby Other	SHUTDOWN	2/22/2019	18:41:49	USER					TO WASH UP ON TOP OF PLUG AND DROP PLUG

Event	19	Drop Top Plug	Drop Top Plug	2/22/2019	18:43:06	COM5					AWAY USING POSITIVE DISPLACEMENT
Event	20	Pump Displacement	Pump Displacement	2/22/2019	18:43:35	COM5	8.33	10.00	950.0	209.6	FRESH WATER
Event	21	Standby Other	SLOW RATE	2/22/2019	19:07:24	USER	8.33	2.00	641.00	200.0	TO BUMP PLUG
Event	22	Bump Plug	Bump Plug	2/22/2019	19:09:09	COM5	8.33	2.00	650.00	209.60	PLUG BUMPED
Event	23	Standby Other	CHECK FLOATS	2/22/2019	19:10:38	USER			1240.00		FLOATS HELD, 0.5 BBLS BACK TO TRUCK
Event	24	Standby Other	PUMP PARISITE	2/22/2019	19:19:27	USER	8.33	2.00	150.0	12.00	12 BBLS SUGAR WATER 10 LBS SUGAR.
Event	25	Other	Other	2/22/2019	20:19:28	COM5	8.33	2.00	40.00	1.00	FRESH WATER
Event	26	Pump Spacer Behind	Pump Spacer Behind	2/22/2019	20:21:13	USER	11.80	2.00	44.00	7.00	7 BBLS SUPERFLUSH
Event	27	Pump Cement - Start	Pump Cement - Start	2/22/2019	20:22:00	USER	15.6	2.00	40.00	8.00	38 SKS TOP OUT CEMENT, 15.6 PPG, 1.19 FT3/SK, 5.24 GAL/SK
Event	28	Pump Cement - End	Pump Cement - End	2/22/2019	20:30:59	USER					SHUTDOWN
Event	29	Standby Other	END JOB	2/22/2019	20:31:29	USER					GOOD CIRCULATION THROUGH OUT JOB, NO PIPE MOVEMENT, 309 BBLS OF CEMENT TO SURFACE.
Event	30	Standby Other	POST JOB SAFETY MEETING	2/22/2019	20:45:00	USER					
Event	31	Standby Other	CREW LEAVE LOCATION	2/22/2019	22:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW

# TERRA ENERGY - TR 624-22-597 - 9 5/8" SURFACE CASING

