

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: Terra**

Date: Thursday, June 07, 2018

**PA 531-26 Surface PJR**

**API #: 05-045-23726**

Sincerely,

**Grand Junction Cement Engineering**

## 2.0 Real-Time Job Summary

## 2.1 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	6/6/2018	17:00:00	USER					Requested on Location @ 22:30
Event	2	Pre-Convoy Safety Meeting	6/6/2018	18:45:00	USER					All HES present
Event	3	Crew Leave Yard	6/6/2018	19:00:00	USER					1 Elite, 1 660, 1 pickup
Event	4	Arrive at Location from Service Center	6/6/2018	20:05:00	USER					Rig pulling drill pipe
Event	5	Assessment Of Location Safety Meeting	6/6/2018	20:10:00	USER					JSA completed - Customer offered/received SDS - water test pH 7.0, CI <200, temp 65 degrees
Event	6	Pre-Rig Up Safety Meeting	6/6/2018	20:15:00	USER					1 hardline to standpipe, water hoses to upright, bulk hose to 660.
Event	7	Other	6/7/2018	00:37:46	USER					Rig Circulated 3 bottoms up prior to cement job at 450 gpm 110 psi
Event	8	Pre-Job Safety Meeting	6/7/2018	01:00:00	USER					All HES personnel, rig crew, and company rep
Event	9	Start Job	6/7/2018	01:28:00	USER	8.30	0.00	0.00	0.00	TD 1113', TP 1106', SJ 38.9' SHOE @ 1103', OH 13.5'', Csg 9.625" 36 lb/ft H-40, Mud 9.5 ppg.
Event	10	Fill Lines	6/7/2018	01:28:20	USER	8.40	2.00	50.00	3.00	Fresh Water
Event	11	Test Lines	6/7/2018	01:32:20	COM5	8.42	0.00	3049.00	3.00	All pressure held
Event	12	Pump Water	6/7/2018	01:34:20	COM5	8.33	4.00	138.00	20.00	Fresh water

Event	13	Pump Lead Cement	6/7/2018	01:42:36	USER	12.30	8.00	560.00	53.00	125 Sks 12.3 ppg 2.38 yield 13.77 gal/sk
Event	14	Check Weight	6/7/2018	01:45:16	COM5					Weight verified by pressurized mud scales
Event	15	Pump Tail Cement	6/7/2018	01:51:00	USER	12.80	8.00	570.00	65.80	175 Sks 12.8 ppg 2.11 yield 11.78 gal/sk
Event	16	Shutdown	6/7/2018	01:59:07	USER					Wash up on top of plug
Event	17	Drop Top Plug	6/7/2018	02:02:11	USER					Plug away
Event	18	Pump Displacement	6/7/2018	02:02:33	COM5	8.33	10.00	730.00	82.50	Fresh water
Event	19	Slow Rate	6/7/2018	02:13:21	USER	8.33	2.00	298.00	72.50	Slow Rate 10 bbls to calculated displacement
Event	20	Bump Plug	6/7/2018	02:16:36	USER	8.33	2.00	254.00	82.50	Plug Bumped at 254 psi, Brought up to 1030 psi
Event	21	Check Floats	6/7/2018	02:19:49	USER	8.35	0.00	1030.00	0.00	Floats held – ½ bbl back to the truck
Event	22	End Job	6/7/2018	02:21:25	COM5	8.32	0.00	-1.00	0.00	Good returns throughout job, 20 bbls cement to surface
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	6/7/2018	02:40:00	USER					All HES Present
Event	24	Pre-Convoy Safety Meeting	6/7/2018	03:00:00	USER					All HES Present
Event	25	Crew Leave Location	6/7/2018	03:15:00	USER					Thanks For Using Halliburton Cement. Andrew Brennecke And Crew.

# TEP - FEDERAL PA 531-26 - 9.625" SURFACE

