

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: Terra**

Date: Sunday, December 02, 2018

CLOUGH NR 14-3 SURFACE

API#05-045-23901-00

Job Date: Sunday, December 02, 2018

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 <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	12/2/2018	00:00:30	USER					REQUESTED ON LOCATION @ 06:00
Event	2	Pre-Convoy Safety Meeting	12/2/2018	02:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	12/2/2018	02:10:00	USER					1 HT 400 PUMP TRUCK E1, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	12/2/2018	04:30:00	USER					RIG RUNNING CASING WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	12/2/2018	04:40:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7.0, CHLORIDES- 500, TEMP- 69F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	12/2/2018	04:50:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	12/2/2018	04:55:00	USER					HES RIGGED UP 1 HT400 PUMP TRUCK, 1 660 BULK TRUCK, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	12/2/2018	10:15:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 10 BPM PRIOR TO JOB PRESSURE @ 178 PSI.
Event	9	Start Job	12/2/2018	10:38:45	COM6					TD 1019', TP 1013.18' OF 9 5/8" 36# SURFACE CSG, FC @ 1070.51', OH 13.5", MUD 9.4 PPG
Event	10	Prime Lines	12/2/2018	10:39:19	USER	8.33	2	130	2	FRESH WATER
Event	11	Test Lines	12/2/2018	10:41:37	COM6			3150		ALL LINES HELD PRESSURE AT 3150 PSI
Event	12	Pump H2O Spacer	12/2/2018	10:43:42	COM6	8.33	4	190	20	20BBLs FRESH WATER

Event	13	Pump Lead Cement	12/2/2018	10:52:04	COM6	12.3	8	650	53	125 SKS VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Check Weight	12/2/2018	10:53:36	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	15	Pump Tail Cement	12/2/2018	10:59:26	COM6	12.8	8	660	66	175 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	Check Weight	12/2/2018	11:00:41	COM6					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	12/2/2018	11:07:47	USER					END OF CEMENT, WASH UP ON TOP OF PLUG
Event	18	Drop Top Plug	12/2/2018	11:11:06	COM6					VERIFIED BY FLAG INDICATOR
Event	19	Pump Displacement	12/2/2018	11:11:08	COM6	8.33	10	850	82.8	FRESH WATER
Event	20	Slow Rate	12/2/2018	11:20:31	USER	8.33	2	300	72.8	SLOW RATE TO 2 BPM TO BUMP PLUG
Event	21	Bump Plug	12/2/2018	11:24:40	COM6	8.33	2	310	82.8	LAND PLUG AT 310 PSI, BROUGHT UP TO 1036 PSI
Event	22	Check Floats	12/2/2018	11:27:21	USER					FLOATS HELD, .5 BBL BACK TO TRUCK
Event	23	End Job	12/2/2018	11:28:22	COM6					RETURNS THROUGHOUT JOB, 27 BBLs CMT TO SURFACE, 40# OF SUGAR USED.
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	12/2/2018	11:35:00	USER					ALL HES PRESENT
Event	25	Rig Down Lines	12/2/2018	11:45:00	USER					ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	12/2/2018	13:00:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	12/2/2018	13:05:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM AND CREW

3.0 Attachments

3.1 CHART .png

