

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

Date: Tuesday, October 02, 2018

### **PA 433-24 Surface**

Terra PA 433-24 SURFACE

API #05-045-23760-00

SO# 905170979

Sincerely,

**Grand Junction Cement Engineering**

## 1.0 Real-Time Job Summary

## 1.1 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	10/2/2018	00:00:00	USER					REQUESTED ON LOCATION @ 4:30
Event	2	Depart Yard Safety Meeting	10/2/2018	02:30:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	10/2/2018	02:45:00	USER					1 HT 400 PUMP TRUCK E1, 1 660 BULK TRUCK, 1 SERVICE PICKUP
Event	4	Arrive At Loc	10/2/2018	04:00:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	10/2/2018	04:15:00	USER					MET WITH COMP REP, WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE. COMP REP WAS OFFERED SDS FOR ALL CHEMICALS USED BY HES.
Event	6	Spot Equipment	10/2/2018	04:30:00	USER					1 HT 400 PUMP TRUCK E1, 1 660 BULK TRUCK, 1 SERVICE PICKUP
Event	7	Pre-Rig Up Safety Meeting	10/2/2018	04:45:00	USER					ALL HES PRESENT
Event	8	Pre-Job Safety Meeting	10/2/2018	05:15:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 10 BPM WITH 95 PSI THROUGH CRT
Event	9	Start Job	10/2/2018	06:35:17	USER					PRESSURIZED MUD SCALES WERE CALIBRATED TO DRINKING WATER PRIOR TO JOB. TD 1135', TP 1128.55', OH 13 1/2", CSG 9 5/8" 36# J-55, SJ 44.30', MUD 9.1 PPG
Event	10	Prime Lines	10/2/2018	06:35:48	USER	8.33		40	2	PRIMED LINES WITH FRESH WATER VIA 6X5
Event	11	Test Lines	10/2/2018	06:40:28	COM5			4200		PRESSURE HELD
Event	12	Pump H2O Spacer	10/2/2018	06:46:07	COM5	8.33	4.0	130	20	FRESH WATER

Event	13	Check Weight	10/2/2018	06:46:32	COM5					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	14	Pump Lead Cement	10/2/2018	06:52:36	COM5	12.3	8.0	530	53	125 SKS VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK.
Event	15	Pump Tail Cement	10/2/2018	06:59:44	COM5	12.8	8.0	560	65.8	175 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	Check Weight	10/2/2018	07:04:45	COM5					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	10/2/2018	07:08:51	USER					END OF CEMENT / WASHED UP ONTOP OF HES PLUG. PLUG LAUNCH WAS VERIFIED BY FLAG INDICATOR
Event	18	Pump Displacement	10/2/2018	07:11:09	COM5	8.33	10	740	73.8	FRESH WATER
Event	19	Slow Rate	10/2/2018	07:21:19	USER	8.33	2.0	260	10	SLOWED RATE TO BUMP PLUG
Event	20	Bump Plug	10/2/2018	07:25:02	COM5	8.33	2.0	260	83.8	PLUG BUMPED
Event	21	Check Floats	10/2/2018	07:26:20	USER			900		FLOATS HELD .5 BBL FLOW BACK TO TRUCK
Event	22	End Job	10/2/2018	07:27:43	COM5					RETURNS THROUGHOUT JOB. 14 BBLs CEMENT TO SURFACE, USED 40 LBS SUGAR
Event	23	Post-Job Safety Meeting (Pre Rig-Down)	10/2/2018	07:30:00	USER					ALL HES PRESENT
Event	24	Pre-Convoy Safety Meeting	10/2/2018	08:45:00	USER					ALL HES PRESENT
Event	25	Depart Location	10/2/2018	09:00:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, DUSTIN HYDE AND CREW

# TERRA - PA 433-24 - 9 5/8" SURFACE

