

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: CRAIG BORGSTEDE

Date: Friday, August 30, 2019

PA 313-24 Surface

API# 05-045-23891-00

Job Date: Friday, August 30, 2019

Sincerely,

SHAWN BLOSSOM

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	8/30/2019	02:00:00	USER					REQUESTED ON LOCATION @ 08:00
Event	2	Pre-Convoy Safety Meeting	8/30/2019	05:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	8/30/2019	05:15:00	USER					1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Arrive At Loc	8/30/2019	07:00:00	USER					RIG PULLING DRILL PIPE WHEN HES ARRIVED AT LOCATION
Event	5	Assessment Of Location Safety Meeting	8/30/2019	07:10:00	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-70F). COMP REP WAS OFFERED SDS FOR ALL CHEMICALS USED BY HES. CALIBRATED MUD SCALES ON WATER.
Event	6	Pre-Rig Up Safety Meeting	8/30/2019	07:15:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	8/30/2019	07:20:00	USER					HES RIGGED UP 1 HT 400 PUMP TRUCK, 1 660 BULK TRUCK, 2" DISCHARGE IRON, AND 4" SUCTION HOSE WITHOUT ENTERING RED ZONE.
Event	8	Pre-Job Safety Meeting	8/30/2019	10:45:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT. RIG CIRCULATED @ 10 BPM PRIOR TO JOB. PRESSURE WAS 185PSI.
Event	9	Start Job	8/30/2019	11:08:25	COM4					TD 1129', TP 1119' OF 9 5/8" 36# SURFACE CSG, FC @ 1078.29', OH 13.5", MUD 10.1PPG
Event	10	Prime Lines	8/30/2019	11:08:58	USER	8.33	2	61	3	FRESH WATER
Event	11	Test Lines	8/30/2019	11:10:27	COM4			3400		ALL LINES HELD PRESSURE AT 3400 PSI
Event	12	Pump H2O Spacer	8/30/2019	11:14:03	COM4	8.33	4	120	20	20BBLs FRESH WATER
Event	13	Pump Lead Cement	8/30/2019	11:21:05	COM4	12.3	8	540	53	125 SKS VARICEM CMT 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK
Event	14	Check Weight	8/30/2019	11:21:23	COM4					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES

Event	15	Pump Tail Cement	8/30/2019	11:28:29	COM4	12.8	8	560	66	175 SKS VARICEM CMT 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	16	Check Weight	8/30/2019	11:28:46	COM4					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	17	Shutdown	8/30/2019	11:37:01	USER					END OF CEMENT, WASH UP ON TOP OF PLUG
Event	18	Drop Top Plug	8/30/2019	11:40:44	COM4					VERIFIED BY FLAG INDICATOR
Event	19	Pump Displacement	8/30/2019	11:40:47	COM4	8.33	10	710	83.4	FRESH WATER
Event	20	Slow Rate	8/30/2019	11:50:56	USER	8.33	2	200	73.4	SLOW RATE TO 2 BPM TO BUMP PLUG
Event	21	Bump Plug	8/30/2019	11:55:11	COM4	8.33	2	260	83.4	LAND PLUG AT 260PSI, BROUGHT UP TO 860 PSI
Event	22	Check Floats	8/30/2019	11:56:11	USER					FLOATS HELD, .5 BBL BACK TO TRUCK
Event	23	End Job	8/30/2019	11:57:52	USER					RETURNS THROUGHOUT JOB, 23 BBLs CMT TO SURFACE, 20# SUGAR USED.
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	8/30/2019	12:00:00	USER					ALL HES PRESENT
Event	25	Rig-Down Equipment	8/30/2019	12:10:00	USER					ALL HES PRESENT
Event	26	Pre-Convoy Safety Meeting	8/30/2019	13:15:00	USER					ALL HES PRESENT
Event	27	Crew Leave Location	8/30/2019	13:30:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, SHAWN BLOSSOM AND CREW.

2.0 Attachments

2.1 CHART .png

