

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

United States of America, COLORADO

### **For: TEP**

Date: Tuesday, November 06, 2018

### **SG 523-26 Surface PJR**

API #: 05-045-23945

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)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	11/6/2018	05:00:00						Requested on Location @ 10:00
Event	2	Pre-Convoy Safety Meeting	11/6/2018	06:50:00						
Event	3	Crew Leave Yard	11/6/2018	07:00:00						1 Elite, 1 660's, 1 pickup
Event	4	Arrive At Loc	11/6/2018	10:00:00						Rig running casing
Event	5	Assessment Of Location Safety Meeting	11/6/2018	10:09:00						JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 48 degrees
Event	6	Pre-Rig Up Safety Meeting	11/6/2018	10:20:00						
Event	7	Rig-Up Equipment	11/6/2018	10:30:00						DME iron to ground manifold, standpipe. Water hoses to both uprights, bulk hose to 660.
Event	8	Pre-Job Safety Meeting	11/6/2018	13:00:00						All HES personnel, rig crew, and company rep.
Event	9	Start Job	11/6/2018	14:28:47						TD 1026', TP 1020', SJ 41.05', OH 13.5", Csg 9.5/8" 32.3 lb/ft , Mud 9.4 ppg.
Event	10	Fill Lines	11/6/2018	14:29:25		8.33	2	63	5	Fresh Water
Event	11	Test Lines	11/6/2018	14:32:20				2269		Held pressure 2 minutes
Event	12	Pump Spacer	11/6/2018	14:36:32		8.33	4	120	15	Fresh Water
Event	13	Check Weight	11/6/2018	14:38:40						Density verified via mud cup
Event	14	Pump Lead Cement	11/6/2018	14:41:13		12.3	8	457	42.4	100 sacks, 12.3 ppg, 2.38 yield, 13.77 gal/sk
Event	15	Pump Tail Cement	11/6/2018	14:47:35		12.8	8	491	65.8	175 sks, 12.8 ppg, 1.32 Yield, 13.77 gal/sk
Event	16	Shutdown	11/6/2018	14:57:09						Wash up on plug
Event	17	Drop Top Plug	11/6/2018	14:58:06						Co-Rep Verify Plug Launched

Event	18	Pump Displacement	11/6/2018	14:59:00	8.33	10	570	77	Fresh Water
Event	19	Slow Rate	11/6/2018	15:08:52	8.33	2	243	67	Slow Rate 10 bbls to Calculated Displacement
Event	20	Bump Plug	11/6/2018	15:12:58			684		Plug Bumped at 243 psi, Brought up to 684 psi
Event	21	Check Floats	11/6/2018	15:14:39					Floats held – .5 bbl back to the truck
Event	22	End Job	11/6/2018	15:15:23					Good returns throughout job. 15 bbl of cement to surface
Event	23	Pre-Rig Down Safety Meeting	11/6/2018	15:24:09					70 lbs of sugar used, HES top plug used, 0 add hours.
Event	24	Rig-Down Equipment	11/6/2018	15:27:14					
Event	25	Pre-Convoy Safety Meeting	11/6/2018	15:40:11					
Event	26	Crew Leave Location	11/6/2018	15:42:24					Thanks for using Halliburton Cement, Chris Martinez and crew.

# Terra, SG 523-26 9 5/8" Surface

