

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

Date: Saturday, March 9, 2019

Trail Ridge 344-22-597 Surface

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API# 05-045-23698-00

Job Date : February 16, 2019

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	2/15/2019	15:00:00						Requested on Location @ 23:00
Event	2	Pre-Convoy Safety Meeting	2/15/2019	16:50:00						
Event	3	Crew Leave Yard	2/15/2019	17:00:00						1 Elite, 1 Transport, 2 pickups
Event	4	Arrive At Loc	2/15/2019	23:00:00						Rig running casing
Event	5	Assessment Of Location Safety Meeting	2/15/2019	23:10:00						JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 72 degrees
Event	6	Pre-Rig Up Safety Meeting	2/15/2019	23:30:00						
Event	7	Rig-Up Equipment	2/15/2019	23:40:00						DME iron to ground manifold, standpipe, hardline to rig cellar. Water hoses to three uprights, bulk hoses to Silo's.
Event	8	Other	2/15/2019	23:45:00						Mud scales calibrated to drinking water prior to job.
Event	9	Pre-Job Safety Meeting	2/16/2019	08:30:00						All HES personnel, rig crew, and company rep.
Event	10	Start Job	2/16/2019	08:57:12						TD 2750', TP 2750', SJ 31.4', OH 14 3/4", Csg 9 5/8" 36 lb/ft P-110, Mud 9.5 ppg.
Event	11	Fill Lines	2/16/2019	08:57:54		8.33	2	210	5	Fresh Water
Event	12	Test Lines	2/16/2019	09:00:38				2310		Held pressure 2 minutes
Event	13	Pump Spacer	2/16/2019	09:07:50		11.7	4	300	10	Super Flush 100
Event	14	Pump Spacer 1	2/16/2019	09:11:16		8.33	4	350	5	Fresh Water
Event	15	Pump Spacer	2/16/2019	09:12:53		8.4	4	206	10	Calcium Chloride Water
Event	16	Pump Spacer	2/16/2019	09:15:17		8.33	4	200	5	Fresh Water
Event	17	Pump Spacer	2/16/2019	09:16:41		11.7	4	190	10	Super Flush 100

Event	18	Pump Spacer	2/16/2019	09:18:46	8.33	4	195	5	Fresh Water
Event	19	Pump Spacer	2/16/2019	09:21:55	8.4	4	230	10	Calcium Chloride Water
Event	20	Pump Spacer	2/16/2019	09:24:39	8.33	4	130	10	Fresh Water
Event	21	Check Weight	2/16/2019	09:31:00					Density verified via mud cup
Event	22	Pump Lead Cement	2/16/2019	09:38:56	12.3	8	530	390.4	925 sks, 12.3 ppg, 2.37 yield, 13.74 gal/sk
Event	23	Pump Tail Cement	2/16/2019	10:31:15	12.8	8	530	129.7	345 sks, 12.8 ppg, 2.11 Yield, 11.75 gal/sk
Event	24	Shutdown	2/16/2019	10:54:03					Wash up on plug
Event	25	Drop Top Plug	2/16/2019	10:56:37					Co-Rep Verify Plug Launched.
Event	26	Pump Displacement	2/16/2019	10:58:13	8.33	10	910	210.6	Fresh Water
Event	27	Slow Rate	2/16/2019	11:17:50	8.33	2	420	190	Slow Rate 20 bbls to Calculated Displacement
Event	28	Bump Plug	2/16/2019	11:24:34			1058		Plug Bumped at 420 psi, Brought up to 1058 psi
Event	29	Check Floats	2/16/2019	11:28:56					Floats held – 1 bbl back to the truck
Event	30	Pump Cement	2/16/2019	12:36:36	15.6	2	86	21	100 sks 15.6 ppg, 1.19 yield, 5.24 gal/sk, 7 bbl of Super Flush, and 2 sks of Calcium Chloride used for top out
Event	31	End Job	2/16/2019	12:50:46					returns Stopped @ the start of displacement. Pipe was not reciprocated during job. no spacer to surface
Event	32	Pre-Rig Down Safety Meeting	2/16/2019	13:16:33					10 lbs sugar, third party top used, 6 add hours, 14 Transport hours
Event	33	Rig-Down Equipment	2/16/2019	13:20:00					
Event	34	Pre-Convoy Safety Meeting	2/16/2019	13:22:00					
Event	35	Crew Leave Location	2/16/2019	13:24:00					Thanks for using Halliburton Cement, Chris Martinez and crew.

Custom Results

