

HALLIBURTON

iCem[®] Service

PETROSTAR SERVICES

Ft. Lupton District, CO

For: Aaron Smith

Date: Tuesday, October 08, 2019

Oster

Weld, Wattenberg

Case 1

Job Date: Tuesday, October 08, 2019

Sincerely,

James Bunnell

Legal Notice

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1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	10/8/2019	04:00:00	USER					For on location After Wilson
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	10/8/2019	13:00:00	USER					Journey management meeting held to discuss journey.
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	10/8/2019	13:30:00	USER					With all equipment and materials.
Event	4	Other	Other	10/8/2019	13:31:00	USER					1.5in coil unit in 4.5 11.6# casing retainer @2404' Perfs @2500'-2000' TOC 2000' Water tested good PH 6 Chlorides less than 300
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/8/2019	13:35:00	USER					To discuss hazards of rig up.
Event	6	Rig-Up Completed	Rig-Up Completed	10/8/2019	13:59:00	USER					With no incidents.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	10/8/2019	14:00:00	USER					With all site personnel to discuss job procedure.
Event	8	Start Job	Start Job	10/8/2019	14:16:39	USER	-6.00	0.74	0.00	7.10	Start recording data.
Event	9	Test Lines	Test Lines	10/8/2019	14:18:39	USER	66.00	8.17	0.00	9.70	Tested to 3000psi
Event	10	Pump Spacer 1	Pump Spacer 1	10/8/2019	14:36:28	USER	-9.00	8.32	0.00	0.00	10bbls mud flush.
Event	11	Pump Spacer 2	Pump Spacer 2	10/8/2019	14:41:47	USER	1614.00	8.13	2.10	10.20	10bbls fresh water.
Event	12	Pump Cement	Pump Cement	10/8/2019	14:44:58	USER	1841.00	8.16	2.00	0.00	150sks 37bbls 14.5ppg 1.39yd 6.78gl/sk verified with pressurized scales.
Event	13	Pump Displacement	Pump Displacement	10/8/2019	15:10:00	USER	1265.00	14.61	1.60	37.10	4.5bbls fresh water.

Event	14	End Job	End Job	10/8/2019	15:14:27	USER	73.00	8.37	0.00	43.20	Stop recording data.
Event	15	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/8/2019	15:16:00	USER					To discuss hazards of rig down.
Event	16	Rig-Down Completed	Rig-Down Completed	10/8/2019	15:40:00	USER					With no incidents.
Event	17	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	10/8/2019	15:45:00	USER					Journey management meeting held to discuss journey.
Event	18	Other	Other	10/8/2019	15:50:00	USER					Thank you from Halliburton and crew.

2.0 Attachments

2.1 Case 1-Custom Results.png

