

HALLIBURTON

iCem[®] Service

URSA RESOURCES GROUP II LLC

United States of America, COLORADO

For: Ursa

Date: Tuesday, November 20, 2018

Boies Ranch 23C-19-2-97 Surface

API#05-103-12304

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	11/19/2018	16:00:00	USER					
Event	2	Pre Journey	11/19/2018	19:40:00	USER					Discuss all travel related safety issues with crew
Event	3	Leave Yard	11/19/2018	20:00:00	USER					
Event	4	Arrive at Job	11/20/2018	06:30:00	USER					Meet with customer Richard McNeil and get numbers. 9.625" 36 lb casing set at 3542', 13.5" hole at 3560', 9.3 ppg WBM in the hole, 18" 17" ID Conductor set at 81', 42' Shoe Joint. 2 Stage Tool set at 1860'. Rig circulated for 45 min at 10 bbls/min with 300-400 psi for a total of 450 bbls circulated. Mud properties: PV 11@120, YP 11, Gels 4/14/21. Water Test: pH 7.0, Temp 60, Cl <200. Rig was running casing when we arrived on location.
Event	5	Site Assement	11/20/2018	06:35:00	USER					Identify and discuss all hazards with the crew
Event	6	Spot Equipment	11/20/2018	06:50:00	USER					Use spotters and radios
Event	7	Pre Rig Up	11/20/2018	07:00:00	USER					Discuss all rig up related safety issues with crew
Event	8	Rig Up	11/20/2018	07:10:00	USER					
Event	9	Pre Job 1st Stage	11/20/2018	11:30:00	USER					Discuss all job related safety issues and pump schedule with customer, crew, and rig crew.
Event	10	Start Job 1st Stage	11/20/2018	12:37:00	USER	32.00	8.52	0.00	0.40	
Event	11	Fill Lines	11/20/2018	12:37:18	USER	43.00	8.52	1.60	0.50	5 bbls water
Event	12	Pressure Test	11/20/2018	12:41:26	USER	3176.00	8.43	0.00	5.00	Low and high pressure tests
Event	13	Water Spacer	11/20/2018	12:45:00	USER	97.00	8.34	0.60	0.00	20 bbls
Event	14	Check Weight	11/20/2018	12:49:52	COM4	324.00	8.34	2.50	12.10	
Event	15	Pump Cement	11/20/2018	12:52:33	USER	383.00	8.93	4.00	19.70	210 bbls cement 12.5 ppg, 1.96 cuft/sk, 10.18 gal/sk 600 sks. 146 bbls water needed.

Event	16	Shutdown	11/20/2018	13:33:52	USER	41.00	11.54	0.00	211.40	Shutdown to drop plug
Event	17	Clean Lines	11/20/2018	13:34:27	USER	6.00	11.92	0.00	211.40	Wash up on top of the plug.
Event	18	Drop 1st Stage Dart	11/20/2018	13:37:22	USER	12.00	12.31	0.00	211.40	Customer to witness and verify. Use plunger to ensure plug is away.
Event	19	Pump Displacement	11/20/2018	13:38:05	USER	15.00	12.15	1.70	0.10	270 bbls WBM 9.3 ppg
Event	20	Slow Rate for Dart through Tool	11/20/2018	13:52:33	USER	227.00	9.40	4.40	110.90	
Event	21	Slow Rate	11/20/2018	14:09:09	USER	441.00	9.35	3.00	259.50	Last 10 bbls
Event	22	Bump Plug	11/20/2018	14:12:00	USER	461.00	9.36	3.00	268.10	568 psi. 1503 psi to lift pipe.
Event	23	Check Floats	11/20/2018	14:13:21	USER	977.00	9.37	0.00	0.00	Floats held. 1 bbl back
Event	24	Drop Opening Plug	11/20/2018	14:20:00	USER	7.00	9.35	0.00	0.00	Customer to witness and verify. Use plunger to ensure plug is away. Wait 15 min for plug to fall.
Event	25	Open Multiple Stage Cementer	11/20/2018	14:35:11	USER	328.00	9.35	1.00	0.30	860 psi to open.
Event	26	Clear Ports	11/20/2018	14:36:00	USER	94.00	9.27	1.00	1.20	Pump 10 bbls to clear ports, then turn over to the rig to circulate for 4 hours.
Event	27	Cement Returns to Surface	11/20/2018	14:47:00	USER	8.00	8.35	0.00	0.00	50 bbls cement to surface with rig circulating. Rig to circulate until 18:15, then start 2nd Stage,
Event	28	Pre Job 2nd Stage	11/20/2018	18:15:00	USER	-2.00	8.36	0.00	9.90	Discuss all job related safety issues and pump schedule with customer, crew, and rig crew.
Event	29	Start Job 2nd Stage	11/20/2018	18:29:30	USER	36.00	8.39	0.00	0.00	
Event	30	Fill Lines	11/20/2018	18:29:50	USER	11.00	8.36	0.90	0.00	5 bbls water
Event	31	Pressure Test	11/20/2018	18:32:00	USER	3236.00	8.42	0.00	0.30	Low and high pressure tests
Event	32	Water Spacer	11/20/2018	18:33:00	USER	9.00	8.33	0.00	0.30	20 bbls
Event	33	Check Weight	11/20/2018	18:38:16	COM4					
Event	34	Pump Cement	11/20/2018	18:40:44	USER	133.00	12.15	4.00	0.20	249 bbls cement 12.3 ppg, 2.45 cuft/sk, 14.18 gal/sk 570 sks. 193 bbls water needed.
Event	35	Shutdown	11/20/2018	19:03:41	USER	15.00	11.58	0.00	154.20	Bulk issues. Had to shutdown and fix the delivery issue.

Event	36	Shutdown	11/20/2018	19:30:44	USER	55.00	9.90	0.00	279.40	Shutdown to drop plug
Event	37	Clean Lines	11/20/2018	19:31:05	USER	19.00	7.85	0.00	279.40	Wash up on top of the plug.
Event	38	Drop 2nd Stage Closing Plug	11/20/2018	19:34:48	USER	14.00	0.56	0.00	279.40	Customer to witness and verify. Use plunger to ensure plug is away.
Event	39	Pump Displacement	11/20/2018	19:35:31	USER	21.00	0.04	2.40	0.30	144 bbls WBM 9.3 ppg
Event	40	Slow Rate	11/20/2018	19:53:25	USER	420.00	8.41	4.00	134.50	Last 10 bbls
Event	41	Shut Tool	11/20/2018	19:55:25	USER	413.00	8.40	4.00	142.50	610 psi to close tool.
Event	42	Check for Flow	11/20/2018	19:57:00	USER	830.00	8.41	0.00	0.00	Sleeve on tool is closed. 2.5 bbls back
Event	43	Cement Returns to Surface	11/20/2018	19:58:00	USER	1.00	8.38	0.00	0.00	80 bbls cement to surface.
Event	44	Pre Rig Down	11/20/2018	20:00:00	USER	-1.00	8.37	0.00	0.00	Discuss all rig down related safety issues with crew
Event	45	Rig Down	11/20/2018	20:10:00	USER	-2.00	8.39	0.00	21.30	
Event	46	Pre Journey	11/20/2018	21:40:00	USER					Discuss all travel related safety issues with crew
Event	47	Items to return	11/20/2018	21:41:00	USER					100 lbs sugar.
Event	48	Total Fluid Volumes	11/20/2018	21:42:00	USER					1st Stage - Spacer: 20 Lead: 210 Displacement: 270 2nd Stage - Spacer: 20 Lead: 249 Displacement: 144
Event	49	Crew Leave Location	11/20/2018	22:00:00	USER					Thank you for your business! Benjamin Fuchs and Crew.