

# HALLIBURTON

iCem<sup>®</sup> Service

## **URSA RESOURCES GROUP II LLC**

United States of America

### **For: Ursa**

Date: Wednesday, February 22, 2017

### **B&V 14B-07-07-95 Surface**

API# 05-045-22706-00

Sincerely,

Grand Junction Cement Engineering

## 1.0 Real-Time Job Summary

## 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	2/22/2017	18:00:00	USER					REQUESTED ON LOCATION @ 0100
Event	2	Depart Yard Safety Meeting	2/22/2017	20:25:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	2/22/2017	20:30:00	USER					1 F550 & 1 PUMP TRUCK
Event	4	Arrive At Loc	2/22/2017	22:30:00	USER					RIG PULLING DRILL PIPE
Event	5	Assessment Of Location Safety Meeting	2/22/2017	23:00:00	USER					MET WITH COMP REP, ROGER, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7, CHLORIDES- 0, TEMP- 65F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	6	Pre-Rig Up Safety Meeting	2/22/2017	01:30:00	USER					ALL HES PRESENT
Event	7	Rig-up Lines	2/22/2017	01:40:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Safety Meeting - Pre Job	2/22/2017	02:30:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	2/22/2017	03:03:30	COM6					TD 1760', TP 1747', SJ 44', OH 12.25'', CSG 8.625'' 32#, MUD 10.4 PPG.
Event	10	Prime Pumps	2/22/2017	03:05:09	USER	56.00	8.51	1.60	0.30	8.33 PPG FRESH WATER
Event	11	Test Lines	2/22/2017	03:09:28	COM6	3945.00	8.54	0.00	2.10	ALL LINES HELD PRESSURE AT 3940 PSI
Event	12	Pump Spacer 1	2/22/2017	03:18:09	COM6	25.00	8.43	1.60	0.20	8.33 PPG FRESH WATER (20BBL)
Event	13	Check Weight	2/22/2017	03:27:21	COM6	70.00	12.35	1.60	15.20	WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	14	Pump Lead Cement	2/22/2017	03:30:33	COM6	152.00	12.44	4.00	2.20	VARICEM CEMENT 262 SKS (114.8 BBLs), 12.3 PPG, 2.46 FT3/SK, 14.17 GAL/SK
Event	15	Pump Tail Cement	2/22/2017	03:45:03	COM6	271.00	12.64	8.00	112.20	VARICEM CEMENT 120 SKS (46.6 BBLs), 12.8 PPG, 2.18

FT3/SK, 12.11 GAL/SK.

Event	16	Shutdown	2/22/2017	03:55:09	USER	142.00	12.85	4.90	60.60	END OF CEMENT
Event	17	Drop Top Plug	2/22/2017	03:59:06	USER					WASH UP ON TOP OF PLUG, PLUG WENT; VERIFIED BY CO REP.
Event	18	Pump Displacement	2/22/2017	04:01:01	USER	32.00	12.35	1.10	0.70	8.34 PPG FRESH WATER (103.7 BBLS)
Event	19	Bump Plug	2/22/2017	04:21:10	USER	438.00	8.33	2.00	101.00	LAND PLUG AT 438 PSI, BROUGHT UP TO 1166 PSI
Event	20	Check Floats	2/22/2017	04:23:46	USER	1166.00	8.36	0.00	0.00	FLOATS HELD, 1 BBL BACK TO TRUCK
Event	21	End Job	2/22/2017	04:25:00	USER					RETURNS THROUGHOUT JOB, PIPE WAS NOT RECIPROCATED, 0 BBL OF CEMENT BACK TO SURFACE
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	2/22/2017	04:30:00	USER					ALL HES PRESENT
Event	23	Rig Down Lines	2/22/2017	04:35:00	USER					ALL HES PRESENT
Event	24	Pre-Convoy Safety Meeting	2/22/2017	04:40:00	USER					ALL HES PRESENT
Event	25	Crew Leave Location	2/22/2017	04:45:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT, CHRIS SMITH AND CREW