

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Lynn Cass & Abe Alexander

Date: Sunday, January 29, 2017

TR 513-21-597 Surface PJR

API# 05-045-23345-00

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

1.1 Job Event Log

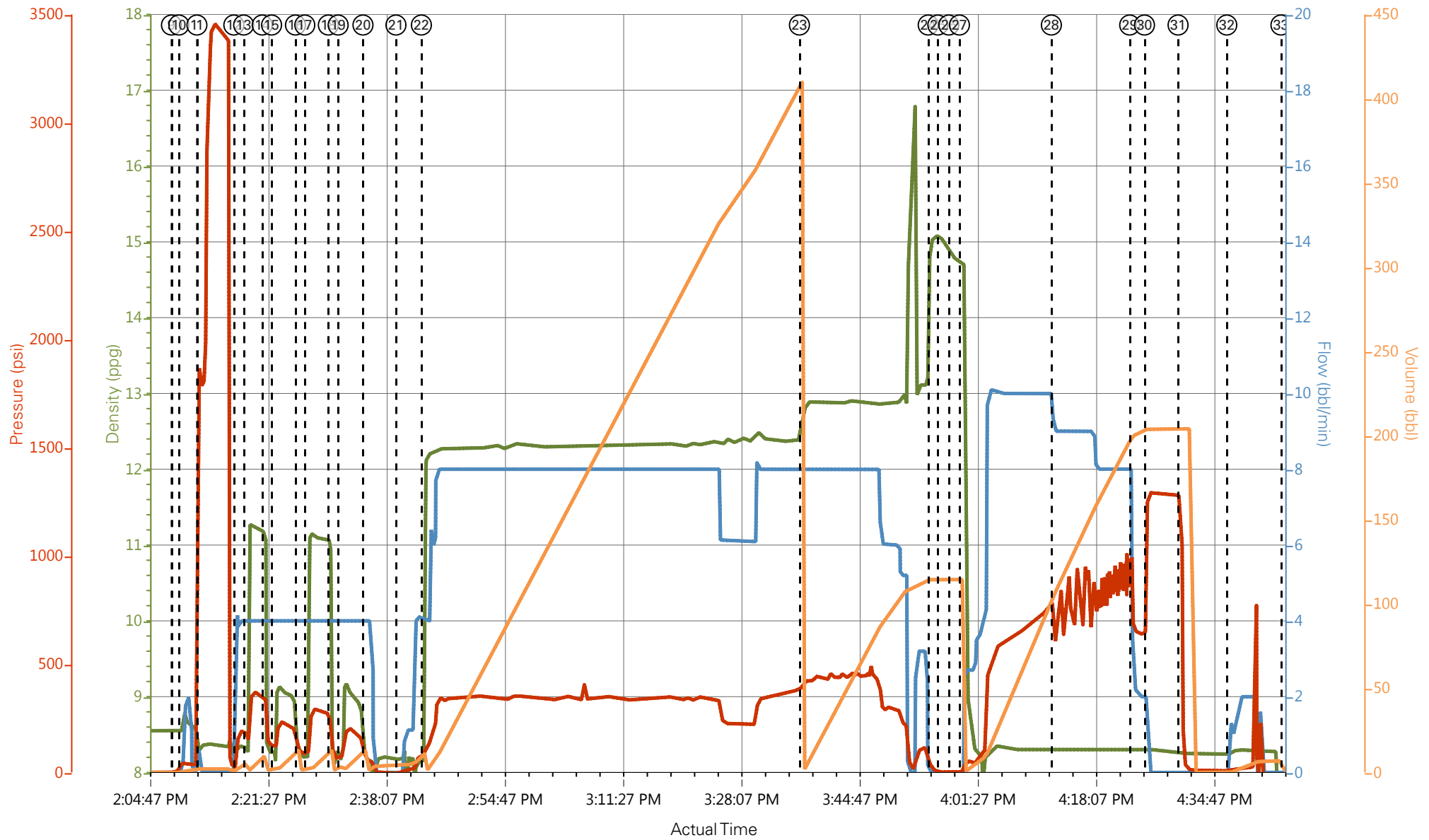
Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	1/29/2017	00:00:00	USER					REQUESTED ON LOCATION AT 08:00 1/29/2017
Event	2	Pre-Convoy Safety Meeting	1/29/2017	02:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	1/29/2017	03:00:00	USER					1 - ELITE PUMP, 1 - TRANSPORT, 2 - 550 PU'S WITH BOOSTER AND HEATER TRAILER
Event	4	Arrive At Loc	1/29/2017	07:00:00	USER					ARRIVED AN HOUR EARLY. RIG WAS AT ABOUT 1200' RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	1/29/2017	07:15:00	USER					MET WITH CO REP TO GO OVER NUMBERS AND JOB PROCEDURE. CUSTOMER OFFERED/RECEIVED SDS. DID A WALK AROUND OF LOCATION AND COLLECTED WATER SAMPLE. (PH - 6, CHL - 0, TEMP 91F AND 84F. FILLED OUT JSA AND SPOTTED TRUCKS IN
Event	6	Pre-Rig Up Safety Meeting	1/29/2017	07:45:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	1/29/2017	08:00:00	USER					WE RIGGED UP EVERYTHING WE COULD STAYING OUT OF THE RED ZONE AND COMPLETED RIG UP WHEN CASING CREW WAS DONE
Event	8	Pre-Job Safety Meeting	1/29/2017	13:00:00	USER					MET WITH RIG CREW TO GO OVER JOB. ALL HES PRESENT
Event	9	Start Job	1/29/2017	14:08:12	COM5					TD 2717', TP 2720', FC 2689', OH 14.75", CSG 9.625" 36 & 40# J-55, MW 9 PPG. FINAL RATE AND PRESSURE 10 BBM AND 200 PSI. RETURNS OFF AND ON WITH LOTS OF AIR IN THE MUD. CIRCULATED FOR ABOUT 1.5 HOURS PRIOR TO US

CEMENTING

Event	10	Prime Pumps	1/29/2017	14:09:15	COM5	8.33	2	40	2	2 BBLS FRESH WATER
Event	11	Test Lines	1/29/2017	14:11:47	COM5	8.33		3500		TESTED TO 3500 PSI. KO'S FUNCTIONING.
Event	12	Pump Spacer 1	1/29/2017	14:16:59	COM5	8.33	4	120	5	5 BBLS FRESH WATER
Event	13	Pump Spacer 2	1/29/2017	14:18:23	COM5	11.7	4	120	10	10 BBLS SUPER FLUSH
Event	14	Pump Spacer 3	1/29/2017	14:21:00	COM5	8.33	4	120	5	5 BBLS FRESH WATER
Event	15	Pump Spacer 4	1/29/2017	14:22:19	COM5	8.34	4	120	10	10 BBLS CALCIUM CHLORIDE WATER
Event	16	Pump Spacer 5	1/29/2017	14:25:41	COM5	8.33	4	120	5	5 BBLS FRESH WATER
Event	17	Pump Spacer 6	1/29/2017	14:27:00	COM5	11.7	4	120	10	10 BBLS SUPER FLUSH
Event	18	Pump Spacer 7	1/29/2017	14:30:19	COM5	8.33	4	120	5	5 BBLS FRESH WATER
Event	19	Pump Spacer 8	1/29/2017	14:31:42	COM5	8.34	4	120	10	10 BBLS CALCIUM CHLORIDE WATER
Event	20	Pump Spacer 9	1/29/2017	14:35:12	COM5	8.33	4	120	10	10 BBLS FRESH WATER
Event	21	Check weight	1/29/2017	14:39:51	COM5	12.3				12.3 PPG
Event	22	Pump Lead Cement	1/29/2017	14:43:26	COM5	12.3	8	350	381.5	900 SKS (381.5 BBLS) 12.3 PPG 2.38 FT3/SK, 13.76 GAL/SK
Event	23	Pump Tail Cement	1/29/2017	15:36:43	COM5	12.8	8	450	130	345 SKS (130 BBLS) 12.8 PPG, 2.11 FT3/SK, 11.78 GAL/SK
Event	24	Shutdown	1/29/2017	15:54:52	COM5					END OF CEMENT
Event	25	Wash On Top	1/29/2017	15:56:13	USER	8.33			10	WASHED ON TOP OF PLUG
Event	26	Drop Top Plug	1/29/2017	15:57:46	COM5					PLUG WENT. WITNESSED BY CO REP
Event	27	Pump Displacement	1/29/2017	15:59:16	COM5	8.33	10	790	207.9	207.9 BBLS FRESH WATER
Event	28	Slow Rate	1/29/2017	16:12:14	USER	8.33	9-8	880	120	SLOWED TO KEEP UP WITH WATER
Event	29	Slow Rate	1/29/2017	16:23:16	COM5	8.33	2	640	198	SLOWED TO 2 BBLS/MIN TO LAND PLUG
Event	30	Bump Plug	1/29/2017	16:25:21	COM5	8.33	2	650	207.9	PLUG BUMPED FROM 650 PSI TO 1400 PSI

Event	31	Check Floats	1/29/2017	16:30:05	COM5			1400		FLOATS HELD. 1 BBL BACK TO TRUCK
Event	32	Clean Lines	1/29/2017	16:36:57	COM5	8.33	3	40	7	PUMPED 7 BBLS THROUGH PARASITE. PRESSURED UP AT 6 BBLS TO 620 PSI.
Event	33	End Job	1/29/2017	16:44:35	COM5					AT 380 BBLS DURING LEAD WE GOT RETURNS BACK FROM NOTHING. AT 70 BBLS DURING TAIL WE GOT GOOD CEMENT RETURNS. 230 BBLS TO SURFACE.
Event	34	Pre-Rig Down Safety Meeting	1/29/2017	16:45:00	USER					ALL HES PRESENT
Event	35	Rig Down Lines	1/29/2017	16:55:00	USER					
Event	36	Pre-Convoy Safety Meeting	1/29/2017	17:45:00	USER					ALL HES PRESENT
Event	37	Crew Leave Location	1/29/2017	18:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT. CLIFF SPARKS AND CREW

TEP CHEVRON TR 513-21-597 9.625" SURFACE



DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi) Pump Stg Tot (bbl)

7 Rig-Up Equipment 9 Start Job 11 Test Lines 13 Pump Spacer 2 15 Pump Spacer 4 17 Pump Spacer 6 19 Pump Spacer 8 21 Check weight 23 Pump Tail Cement 25
 8 Pre-Job Safety Meeting 10 Prime Pumps 12 Pump Spacer 1 14 Pump Spacer 3 16 Pump Spacer 5 18 Pump Spacer 7 20 Pump Spacer 9 22 Pump Lead Cement 24 Shutdown 26

HALLIBURTON | iCem® Service

Created: 2017-01-29 11:01:26, Version: 4.2.393

Edit

Customer : TERRA ENERGY PARTNERS

Job Date : 1/29/2017 11:19:36 AM

Well : TR 513-21-597

Representative : BEAUDE OAKS

Sales Order # : 903806987

ELITE - 1 : CLIFF SPARKS / DAVID CAMPBELL

TEP CHEVRON TR 513-21-597 9.625" SURFACE

