

# HALLIBURTON

iCem<sup>®</sup> Service

## **TERRA ENERGY PARTNERS**

**For: Lynn Cass & Abe Alexander**

Date: Tuesday, December 13, 2016

**YOUBERG SR 44-12 Surface PJR**

**API# 05-045-23250-00**

Sincerely,

**Grand Junction Cement Engineering**

## 2.0 Real-Time Job Summary

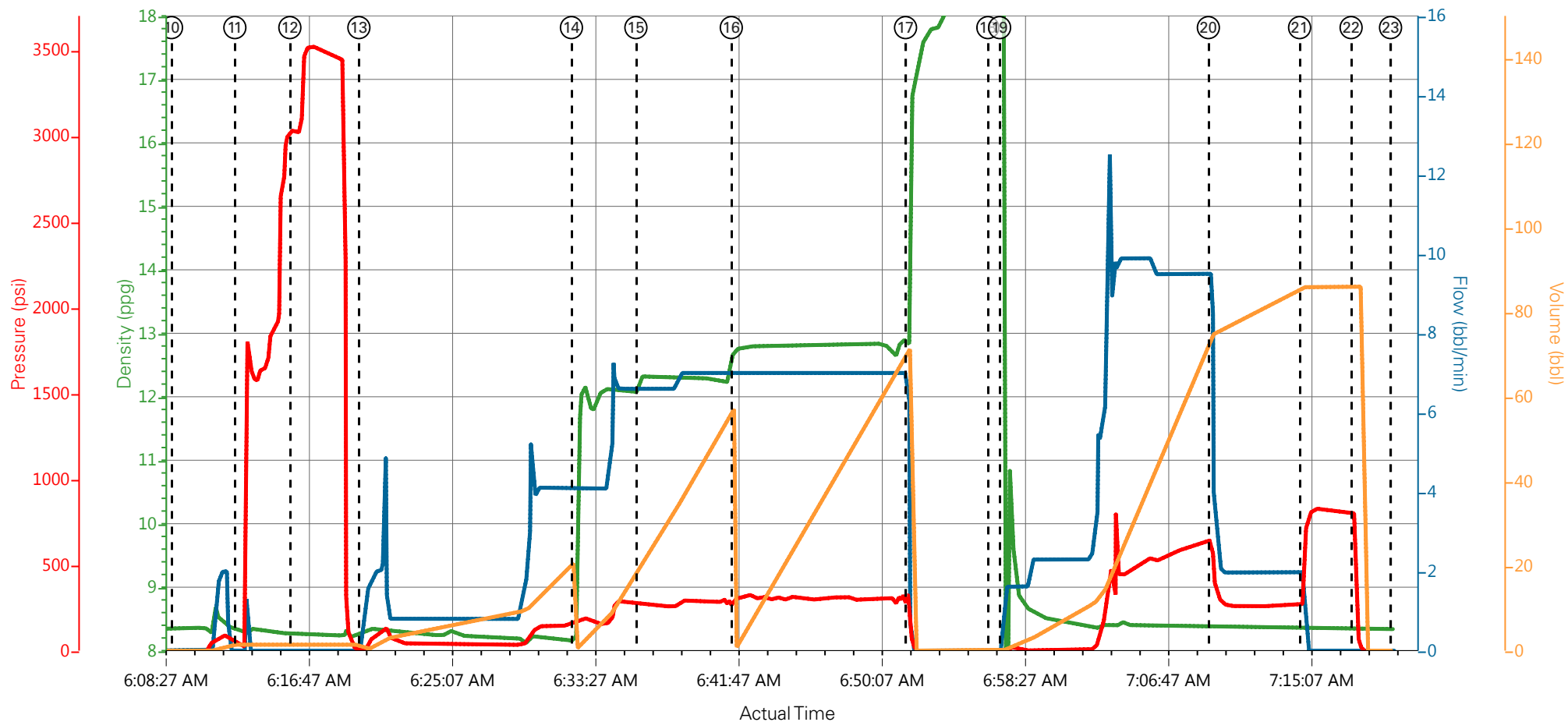
## 2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Driv-Side Pump Pressure (psi)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	12/12/2016	22:00:00	USER					ALL HES CALLED OUT
Event	2	Pre-Convoy Safety Meeting	12/13/2016	00:15:00	USER					JOURNEY CREATED, ALL HES INVOLVED IN SAFETY MEETING
Event	3	Crew Leave Yard	12/13/2016	00:30:00	USER					1-F-550 PICKUP, 1-ELITE PUMP TRUCK, 1-660 BULK TRUCK
Event	4	Arrive At Loc	12/13/2016	02:00:00	USER					HES ARRIVED ON LOCATION 2 HOURS EARLY, HES REP SPOKE WITH COMPANY REP PRIOR TO SPOTTING EQUIPMENT AND RIGGING UP
Event	5	Assessment Of Location Safety Meeting	12/13/2016	02:15:00	USER					RIG WAS STARTING TO RUN CASING, HES SPOTTED EQUIPMENT AND HELD SAFETY MEETING
Event	6	Pre-Rig Up Safety Meeting	12/13/2016	03:30:00	USER					JSA FILLED OUT AND REVIEWED BY ALL HES PERSONNEL
Event	7	Rig-Up Equipment	12/13/2016	04:00:00	USER					RIG UP IRON TO THE STAND PIPE, WATER HOSES TO BOTH UPRIGHTS AND BULK TRUCK UP TO PUMP TRUCK
Event	8	Rig-Up Completed	12/13/2016	05:00:00	USER					RIG UP COMPLETED SAFELY
Event	9	Pre-Job Safety Meeting	12/13/2016	05:30:00	USER					ALL HES, RIG CREW AND COMPANY REP INVOLVED TO DISCUSS JOB PROCEDURES
Event	10	Start Job	12/13/2016	06:09:00	USER					TD: 1145FT TP: 1139FT CSG: 9.625 32.3# H-40 SET AT 1135FT OH: 13.5 MUD WT: 9.2PPG WTR TEST- TEMP: 55 CHLOR: 0 PH: 7
Event	11	Fill Lines	12/13/2016	06:12:41	COM5	8.33	2	95	2	FILL LINES TO PRESSURE TEST

Event	12	Test Lines	12/13/2016	06:15:53	COM5			3525		PRESSURE TEST LINES TO 3525PSI, PRESSURE TEST OK
Event	13	Fresh Water Spacer	12/13/2016	06:19:54	COM5	8.34	4	265	20	20 BBL FRESH WATER SPACER PUMPED AT 4 BBL/MIN PRESSURE WAS 265 PSI
Event	14	Pump Lead Cement	12/13/2016	06:32:16	COM5	12.3	7	280	55.1	130 SKS OF VARICEM CEMENT (55.1BBLS) 12.3PPG 2.38YIELD 13.77GAL/SK WEIGHT OF CEMENT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Event	15	Check weight	12/13/2016	06:36:01	COM5	12.3				VERIFIED WEIGHT OF CEMENT
Event	16	Pump Tail Cement	12/13/2016	06:41:34	COM5	12.8	7	300	65.7	175 SKS OF VARICEM CEMENT (65.7BBLS) 12.8PPG 2.11YIELD 11.78GAL/SK WEIGHT OF CEMENT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Event	17	Shutdown	12/13/2016	06:51:42	USER	12.8	7	300	65.7	SHUTDOWN END OF CEMENT, HES WASH UP ON TOP OF PLUG READY TANKS FOR DISPLACEMENT
Event	18	Drop Top Plug	12/13/2016	06:56:30	COM5					TOP PLUG AWAY NO PROBLEMS
Event	19	Pump Displacement	12/13/2016	06:57:11	COM5	8.34	10	630	76.4	FRESH WATER DISPLACEMENT
Event	20	Slow Rate	12/13/2016	07:09:19	USER	8.34	2	260	10	SLOW RATE TO 2 BBLS/MIN, PRESSURE PRIOR TO SLOWING RATE WAS 640 PSI
Event	21	Bump Plug	12/13/2016	07:14:38	USER	8.34	2	280	86.4	PLUG BUMPED AT CALCULATED DISPLACEMENT, PRESSURE PRIOR TO BUMPING THE PLUG WAS 280 PSI, BUMPED PLUG AT 812 PSI
Event	22	Check Floats	12/13/2016	07:17:38	COM5	8.34		812		FLOATS HELD .5 BBL BACK TO TANKS, 20 BBLS OF CEMENT CIRCULATED TO SURFACE, RIG USED 40 POUNDS OF SUGAR
Event	23	End Job	12/13/2016	07:19:55	COM5					THANK YOU FOR CHOOSING HALLIBURTON CEMENT CARL KUKUS AND CREW
Event	24	Pre-Rig Down Safety Meeting	12/13/2016	07:25:00	USER					JSA REVIEWED, ALL HES INVOLVED IN SAFETY MEETING

Event	25	Rig-Down Equipment	12/13/2016	07:35:20	USER	BLOW DOWN HARD LINE THAT STAYS ON LOCATION, BLOW DOWN PUMP TRUCK, RIG DOWN ALL LINES AND EQUIPMENT
Event	26	Rig-Down Completed	12/13/2016	08:35:00	USER	RIG DOWN COMPLETED SAFELY
Event	27	Pre-Convoy Safety Meeting	12/13/2016	08:40:00	USER	JOURNEY CREATED, ALL HES INVOLVED IN SAFETY MEETING
Event	28	Crew Leave Location	12/13/2016	08:50:00	USER	1- F-550 PICKUP, 2- ELITE PUMP TRUCKS, 1-660 BULK TRUCK

# TEP - YOUNBERG SR 44-12 - SURFACE - 903717777



DH Density (ppg) 8.34    Comb Pump Rate (bbl/min) 0    DS Pump Press (psi) -28    Pump Stg Tot (bbl) 0

- |   |                      |                                |
|---|----------------------|--------------------------------|
| ① Call Out                              | ⑪ Fill Lines         | 21 Bump Plug                   |
| ② Pre-Convoy Safety Meeting             | ⑫ Test Lines         | 22 Check Floats                |
| ③ Crew Leave Yard                       | ⑬ Fresh Water Spacer | 23 End Job                     |
| ④ Arrive At Loc                         | ⑭ Pump Lead Cement   | 24 Pre-Rig Down Safety Meeting |
| ⑤ Assessment Of Location Safety Meeting | ⑮ Check weight       | 25 Rig-Down Equipment          |
| ⑥ Pre-Rig Up Safety Meeting             | ⑯ Pump Tail Cement   | 26 Rig-Down Completed          |
| ⑦ Rig-Up Equipment                      | ⑰ Shutdown           | 27 Pre-Convoy Safety Meeting   |
| ⑧ Rig-Up Completed                      | ⑱ Drop Top Plug      | 28 Crew Leave Location         |
| ⑨ Pre-Job Safety Meeting                | ⑲ Pump Displacement  |                                |
| ⑩ Start Job                             | 20 Slow Rate         |                                |

▼ **HALLIBURTON** | iCem® Service

Created: 2016-12-13 02:43:21, Version: 4.2.393

Edit

Customer : TERRA ENERGY PARTNERS

Job Date : 12/13/2016 5:11:37 AM

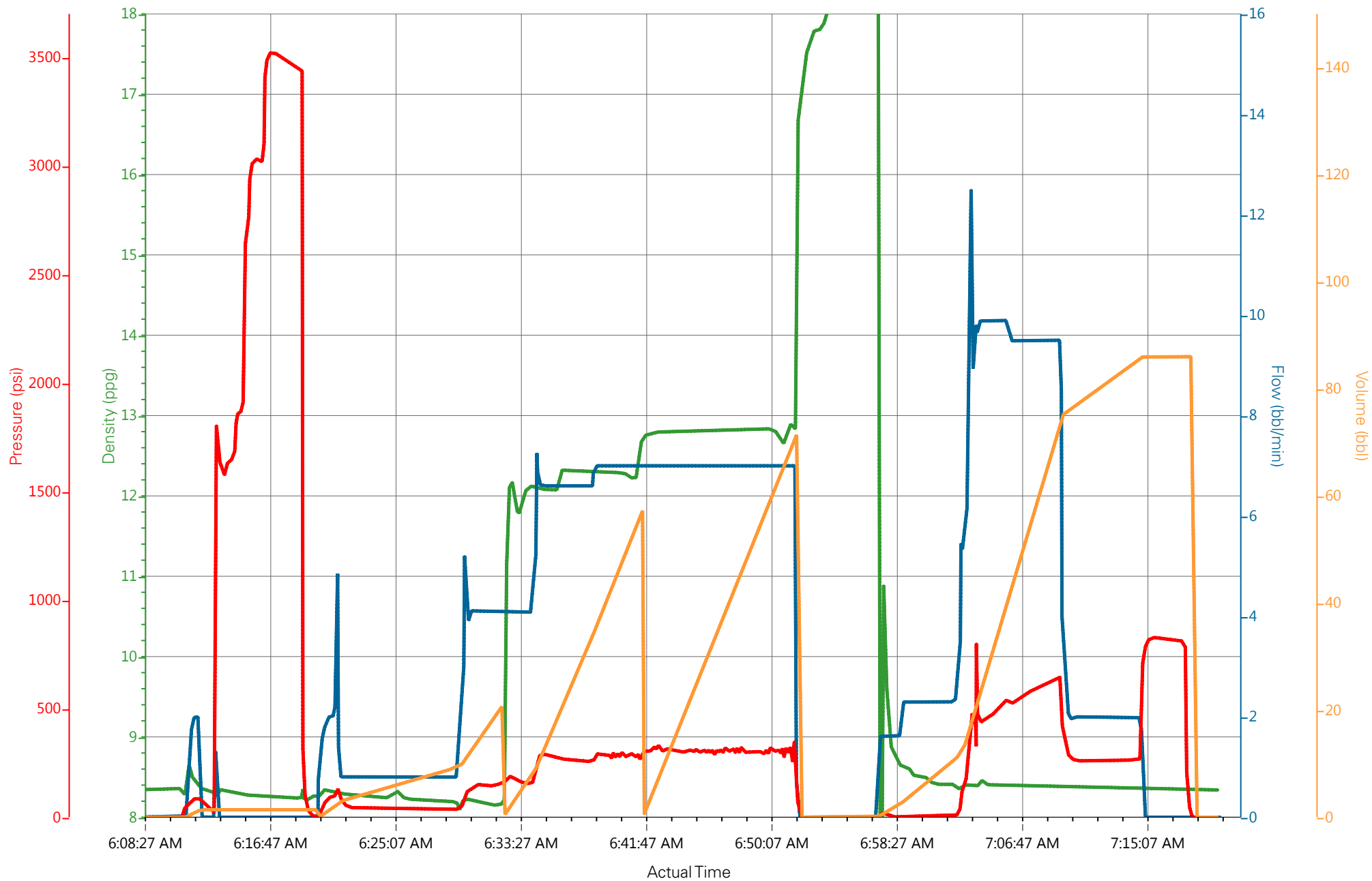
Well : YOUNBERG SR 44-12

Representative : Jarvis Abbey

Sales Order # : 903717777

ELITE 1 : Dane Porter/Carlton Kukus

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