

HALLIBURTON

iCem[®] Service

TEP ROCKY MOUNTAIN LLC

For: Terra

Date: Thursday, March 16, 2017

Trail Ridge 13-21-597Production

API#05-045-23347-00

Sincerely,

Grand Junction Cement Engineering

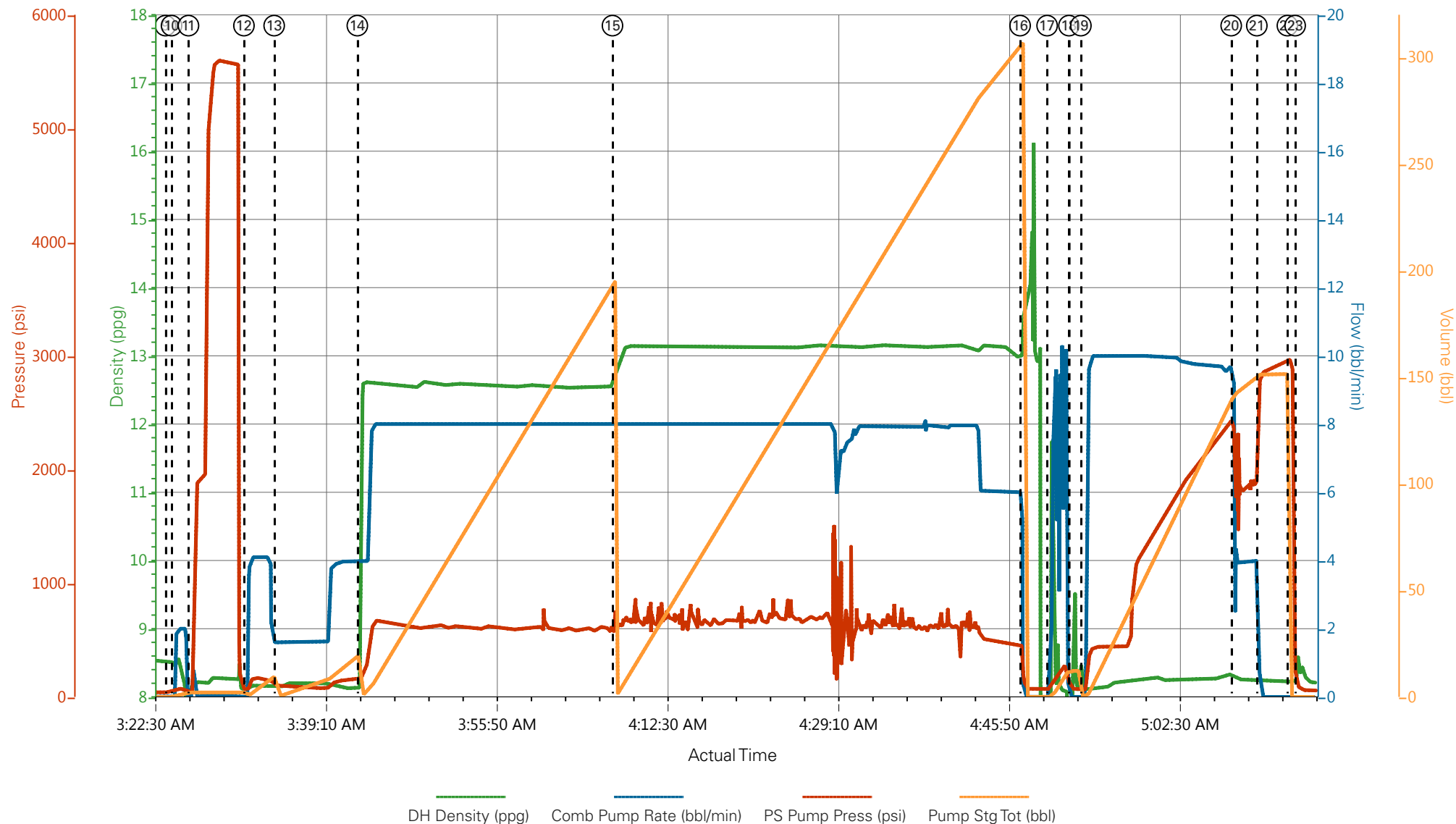
2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	3/15/2017	10:00:00	USER					ELITE #1
Event	2	Pre-Convoy Safety Meeting	3/15/2017	12:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	3/15/2017	18:30:00	USER					ARRIVED ON LOCATION 2 1/2 HOURS EARLY RIG RUNNING CASING UPON HES ARRIVAL
Event	4	Meet With Company Rep	3/15/2017	19:30:00	USER					COMPANY REP OFFERED SDS WATER TEST: TEMP: 70 PH:7 CHLORIDES:0
Event	5	Assessment Of Location Safety Meeting	3/15/2017	23:00:00	USER					ALL HES EMPLOYEES
Event	6	Pre-Rig Up Safety Meeting	3/15/2017	23:15:00	USER					ALL HES EMPLOYEES
Event	7	Rig-Up Equipment	3/15/2017	23:30:00	USER					1 HT-400 PUMP TRUCK (ELITE#1) 1 660 BULK TRUCK 2 SILOS 1 F-550 PICKUP
Event	8	Pre-Job Safety Meeting	3/16/2017	02:30:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED @ 439 GPM WITH 700 CFM AIR ON DP AND 1300 CFM AIR ON PARASITE @ 800 PSI FOR 1 HOUR PRIOR TO THE JOB
Event	9	Start Job	3/16/2017	03:23:48	COM5					TD:9857 TP: 9851.29 SJ:28.85 CSG: 4 1/2 11.6# P-110 9 5/8 36# J-55 SHOE @ 2837 OH: 8 3/4 MUD WT:8.9 PPG
Event	10	Prime Lines	3/16/2017	03:24:23	COM5	8.33	2.0	61	2.0	PRIME LINES WITH 2 BBLs FRESH WATER
Event	11	Test Lines	3/16/2017	03:26:02	COM5	8.33	0.0	5601	2.0	PRESSURE TEST OK
Event	12	Pump Fresh Water Spacer	3/16/2017	03:31:27	COM5	8.33	4.0	171	10	PUMP 10 BBL FRESH WATER SPACER
Event	13	Pump Mud Flush III	3/16/2017	03:34:24	COM5	8.4	4.0	155	20	PUMP 20 BBL MUD FLUSH III SPACER
Event	14	Pump Lead Cement	3/16/2017	03:42:31	COM5	12.5	8.0	650	196	565 SKS NeoCem 12.5 PPG 1.94 YIELD 9.58 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES 90#S OF TUF FIBER ADDED THROUGHOUT LEAD AND

BEGINNING OF TAIL CEMENT										
Event	15	Pump Tail Cement	3/16/2017	04:07:25	COM5	13.0	8.0	700	279	755 SKS NeoCem 13.0 PPG 2.07 YIELD 9.43 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	16	Shutdown	3/16/2017	04:47:12	COM5					SHUTDOWN TO CLEAN PUMPS AND LINES
Event	17	Clean Lines	3/16/2017	04:49:51	USER				10	CLEAN PUMPS AND LINES TO THE PIT
Event	18	Drop Top Plug	3/16/2017	04:51:59	COM5					PLUG AWAY NO PROBLEMS LATCH DOWN PLUG PROVIDED BY COMPANY REP
Event	19	Pump Displacement	3/16/2017	04:53:08	COM5	8.4	10.0	2385	152.2	1 GAL MMCR 3#S BE-6 1 BAG KCL/10 BBL FRESH WATER DISPLACEMENT
Event	20	Slow Rate	3/16/2017	05:07:49	COM5	8.4	4.0	1900	142	SLOW RATE TO BUMP PLUG
Event	21	Bump Plug	3/16/2017	05:10:19	COM5	8.4	4.0	2865	152.2	PSI BEFORE BUMPING PLUG @ 1900 BUMPED PLUG UP TO 2950
Event	22	Check Floats	3/16/2017	05:13:18	COM5					FLOATS HELD 1 1/2 BBL BACK TO DISPLACEMENT TANKS
Event	23	End Job	3/16/2017	05:14:03	COM5					MAINTAINED RETURNS THROUGHOUT THE JOB RIG HAD 1000 CFM AIR ON THE PARASITE UNTIL END OF TAIL CEMENT
Event	24	Pre-Rig Down Safety Meeting	3/16/2017	05:30:00	USER					ALL HES EMPLOYEES
Event	25	Rig-Down Equipment	3/16/2017	05:45:00	USER					
Event	26	Pre-Convoy Safety Meeting	3/16/2017	08:20:00	USER					ALL HES EMPLOYEES
Event	27	Crew Leave Location	3/16/2017	08:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT, DUSTIN SMITH AND CREW

TEP - CHEVRON TR 13-21-597 - 4 1/2 PRODUCTION



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

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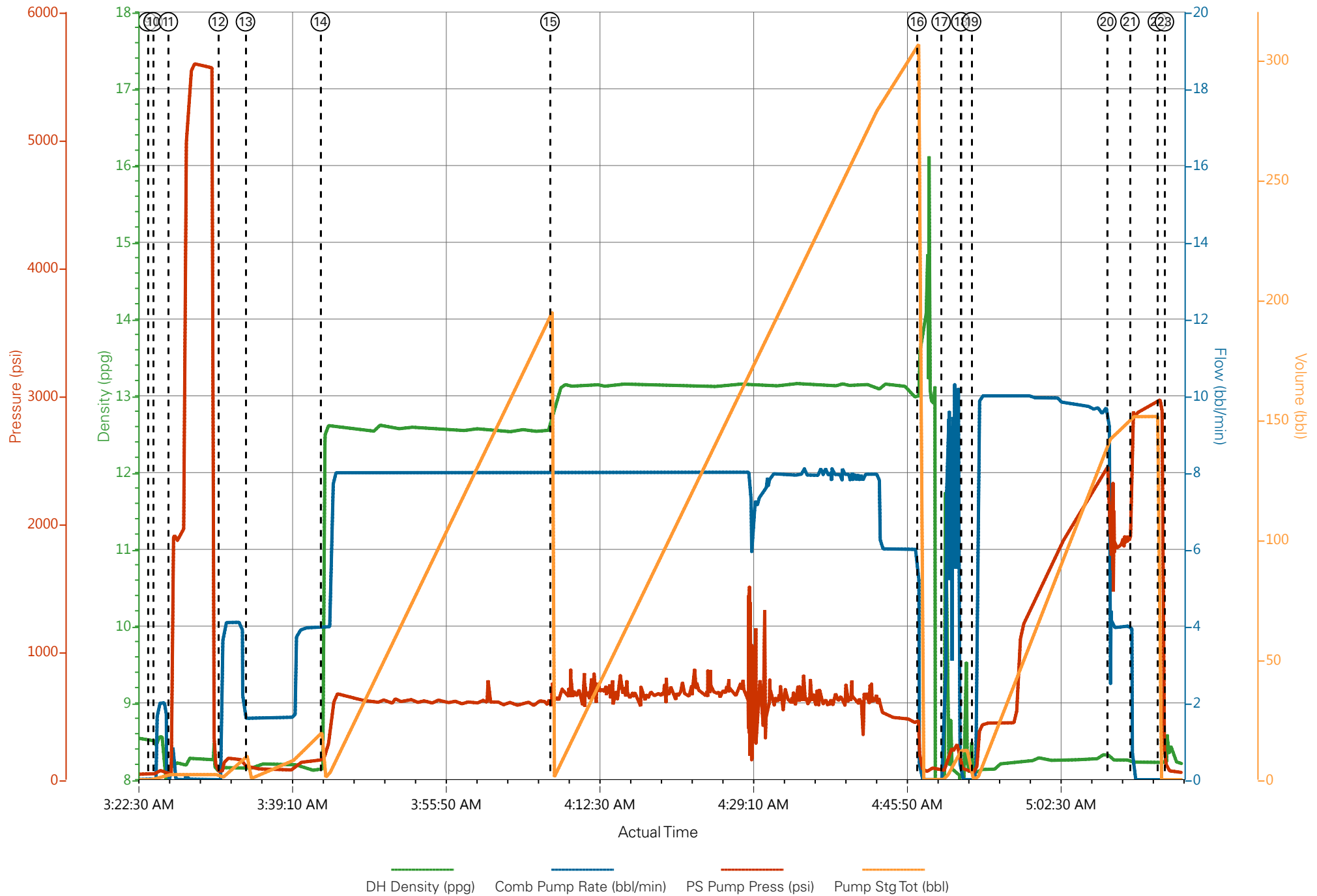
Edit

Customer: TEP ROCKY MOUNTAIN LLC
 Representative: JAYSON BOEBERT

Job Date: 3/16/2017 1:36:19 AM
 Sales Order #: 0903902547

Well: CHEVRON TR 13-21-597
 ELITE #1: DUSTIN SMITH / DAVID CAMPBELL

TEP - CHEVRON TR 13-21-597 - 4 1/2 PRODUCTION



HALLIBURTON

Rockies, Grand Junction

Lab Results- Lead

Job Information

Request/Slurry	2374065/1	Rig Name	H&P 271	Date	12/MAR/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	TR 13-21-597

Well Information

Casing/Liner Size	4.5 in	Depth MD	9875 ft	BHST	115°C / 239°F
Hole Size	8.75 in	Depth TVD	9333 ft	BHCT	76°C / 169°F
Pressure	5830 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	10.4 lbm/gal
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Cement Information - Lead Design



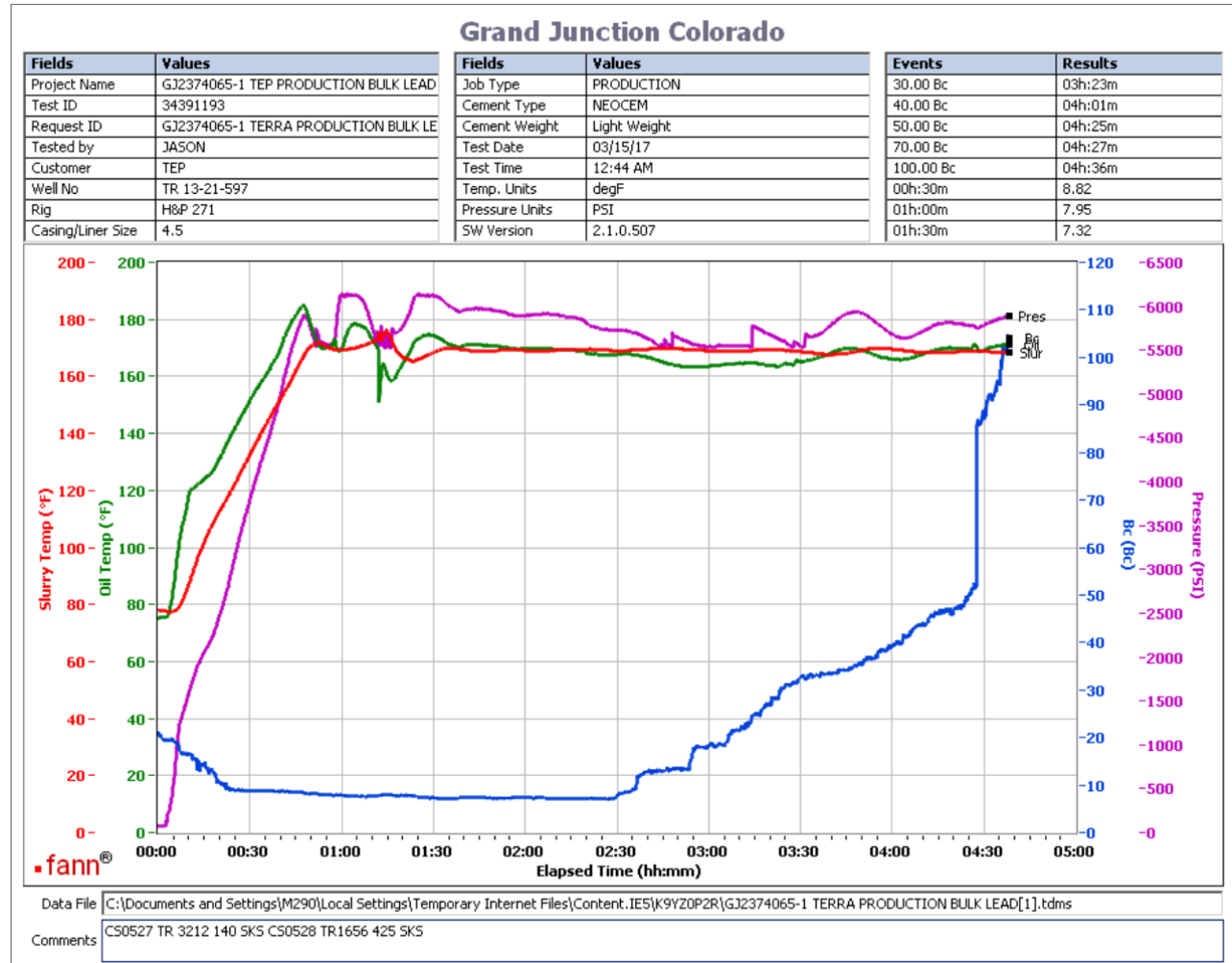
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
						Slurry Density	12.5	lbm/gal
						Slurry Yield	1.941	ft3/sack
						Water Requirement	9.623	gal/sack
						Total Mix Fluid	9.623	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

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Thickening Time - ON-OFF-ON

15/MAR/2017

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
169	5830	47	3:23	4:25	4:27	4:36	21	57	15	8



Total Sacks= 565
 CS0527 TR 3212 140 SKS
 CS0528 TR 1656 425 SKS
 Composite

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Rockies, Grand Junction

Lab Results- Tail

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Pressure	5830 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	10.4 lbm/gal
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Cement Information - Tail Design



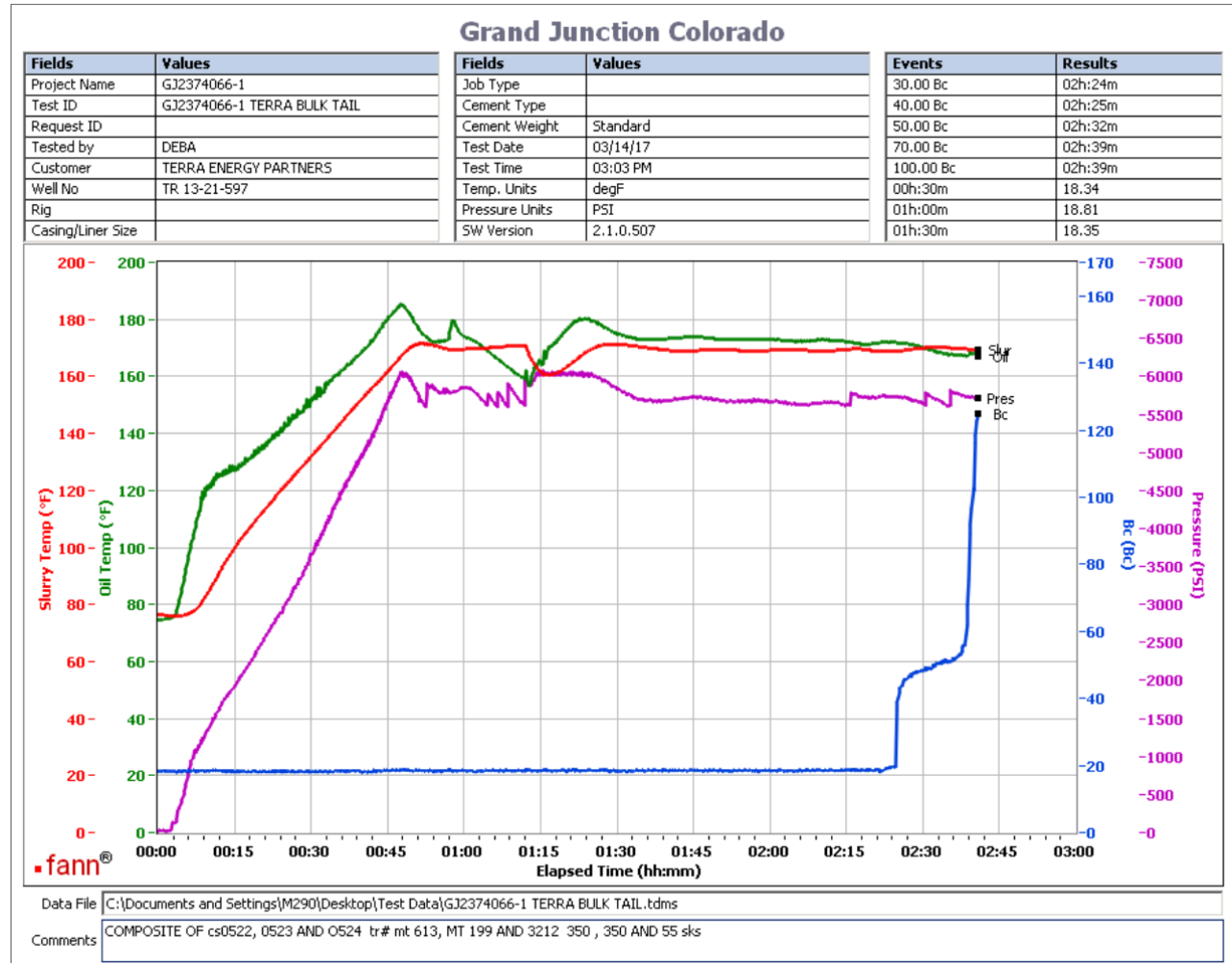
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties	
						Slurry Density	13 lbm/gal
						Slurry Yield	2.065 ft3/sack
						Water Requirement	9.429 gal/sack
						Total Mix Fluid	9.429 gal/sack
						Water Source	Fresh Water
						Water Chloride	

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Thickening Time - ON-OFF-ON

14/MAR/2017

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
169	5830	47	2:24	2:32	2:39	2:39	18	57	15	19



Total sks = 755
 CS0522 TR MT613 350 SKS
 CS0523 TR MT199 350 SKS
 CS0524 TR#3212 55 SKS
 no deflection

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