

HALLIBURTON

iCem[®] Service

TEP ROCKY MOUNTAIN LLC

For: Abe Alexander & Lynn Cass

Date: Wednesday, November 23, 2016

SR 344-12 Production

API# 05-045-23256-00

Sincerely,

Grand Junction Cement Engineering

1.0 Real-Time Job Summary

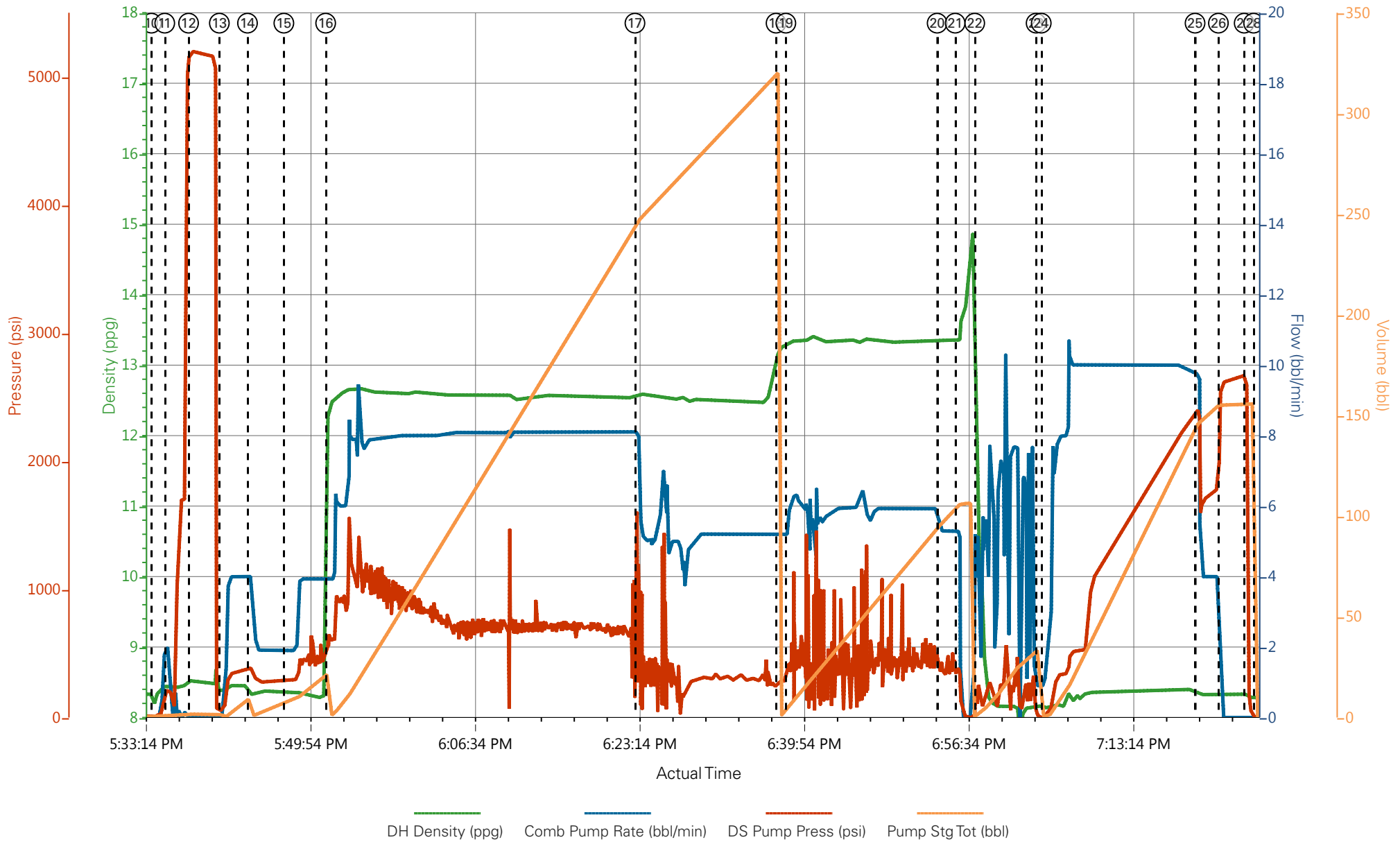
1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	DS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	11/23/2016	07:00:00	USER					REQUESTED ON LOCATION @ 14:00
Event	2	Pre-Convoy Safety Meeting	11/23/2016	09:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	11/23/2016	10:00:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	4	Assessment Of Location Safety Meeting	11/23/2016	12:00:00	USER					MET WITH COMP REP, AND WENT OVER NUMBERS AND JOB PROCEDURE. WALKED AROUND LOCATION AND COLLECTED WATER SAMPLE (PH- 7.0, CHLORIDES- 0, TEMP- 73F). COMP REP WAS OFFERED SDS FOR ALL CHEMICLES USED BY HES.
Event	5	Spot Equipment	11/23/2016	13:30:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 550 SERVICE PICKUP
Event	6	Pre-Rig Up Safety Meeting	11/23/2016	13:45:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	11/23/2016	14:00:00	USER					HES RIGGED UP EQUIPMENT WITHOUT ENTERING RED ZONE.
Event	8	Finish Rig-Up	11/23/2016	16:00:00	USER					DONE WITH CASING, RIG RIGGED DOWN CASERS AND HES FINISHED RIG-UP
Event	9	Pre-Job Safety Meeting	11/23/2016	17:00:00	USER					ALL HES EMPLOYEES AND RIG CREW PRESENT, RIG CIRCULATED @ 12 BPM PRIOR TO JOB PRESSURE @830 PSI, GAS @ 140
Event	10	Start Job	11/23/2016	17:34:06	USER					TD 9679', TP 9668', SJ 28', CSG 9 5/8" 32.3# H-40 SET @ 1146' PRODUCTION CSG 4 1/2" 11.6# P-110, OH 8 3/4", MUD 10.2 PPG

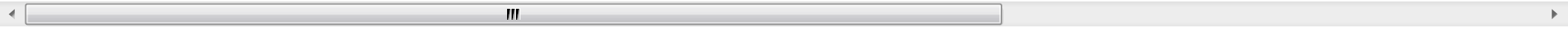
Event	11	Prime Lines	11/23/2016	17:35:27	USER	8.33	2.0	205	2	FRESH WATER
Event	12	Test Lines	11/23/2016	17:37:51	COM5			5200		PRESSURE HELD
Event	13	Pump H2O Spacer	11/23/2016	17:40:58	COM5	8.33	4.0	420	10	FRESH WATER
Event	14	Pump Mud Flush III	11/23/2016	17:43:49	COM5	8.4	4.0	490	20	80LBS MUD FLUSH III
Event	15	Check weight	11/23/2016	17:47:30	COM5					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	16	Pump Lead Cement	11/23/2016	17:51:44	COM5	12.5	8.0	660	287	830 SKS NEOCEM CMT 12.5 PPG, 1.94 FT3/SK, 9.58 GAL/SK. USED 60 LBS. OF TUF-FIBER THROUGHOUT LEAD CMT
Event	17	Slow Rate	11/23/2016	18:23:04	USER					SLOWED TO SWAP TO TAIL CEMENT FROM SILO
Event	18	Pump Tail Cement	11/23/2016	18:37:22	COM5	13.3	6.0	460	82	265 SKS THERMACEM CMT 13.3 PPG, 1.73 FT3/SK, 7.81 GAL/SK
Event	19	Check weight	11/23/2016	18:38:21	COM5					WEIGHT VERIFIED VIA PRESSUREIZED MUD SCALES
Event	20	Slow Rate	11/23/2016	18:53:40	USER					SLOWED TO END CMT
Event	21	Shutdown	11/23/2016	18:55:30	USER					END OF CMT
Event	22	Clean Pumps And Lines	11/23/2016	18:57:29	USER					USED 15 BBLS. WASHING UP INTO PIT
Event	23	Drop Plug	11/23/2016	19:03:42	USER					VERIFIED BY FLAG INDICATOR
Event	24	Pump Displacement	11/23/2016	19:04:13	COM5	8.4	10.0	2800	139	1 GAL MMCR IN FIRST 10 BBLS, 3 LBS BE-6 IN FIRST 30 BBLS, 1 50 LB. BAG KCL THROUGHOUT DISPLACEMENT
Event	25	Slow Rate	11/23/2016	19:19:48	USER	8.4	4.0	1730	10	SLOWED TO BUMP PLUG
Event	26	Bump Plug	11/23/2016	19:22:10	COM5	8.4	4.0	2100	149	PLUG BUMPED
Event	27	Check Floats	11/23/2016	19:24:46	USER			2600		FLOATS HELD .5 BBL FLOWBACK
Event	28	End Job	11/23/2016	19:25:43	USER					RETURNS THROUGHOUT JOB.
Event	29	Post-Job Safety Meeting (Pre Rig-Down)	11/23/2016	19:30:00	USER					ALL HES PRESENT

Event	30	Rig-Down Completed	11/23/2016	21:30:00	USER	NO INJURIES TO REPORT
Event	31	Pre-Convoy Safety Meeting	11/23/2016	21:45:00	USER	ALL HES PRESENT
Event	32	Crew Leave Location	11/23/2016	22:00:00	USER	THANK YOU FOR CHOOSING HALLIBURTON CEMENT, DUSTIN HYDE AND CREW

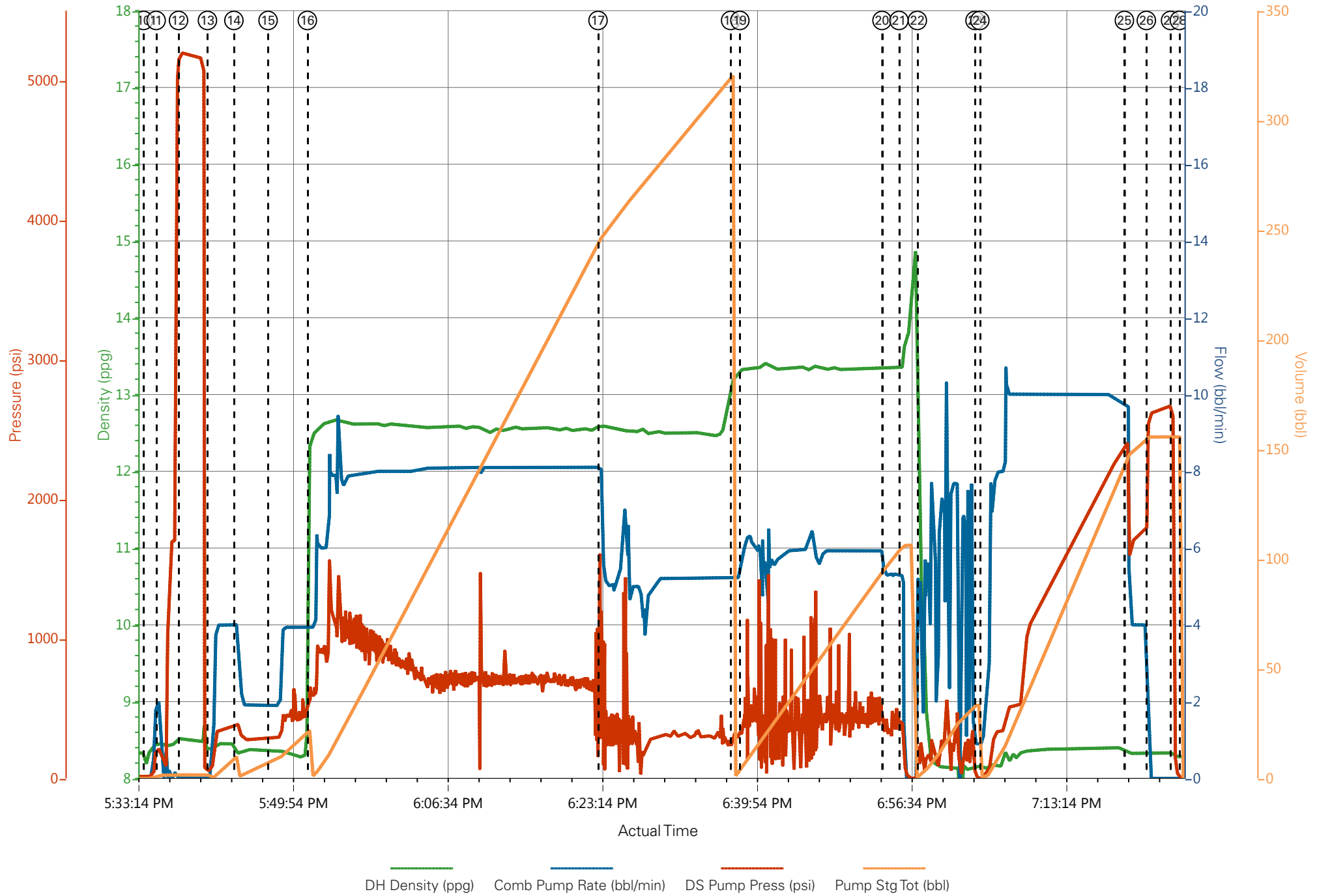
TERRA, YOUBERG SR 344-12, 4 1/2" PRODUCTION



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|-----------------------------|---|--------------------------|---------------|----------------------|--------------------|----------------|-------------|
| ① Call Out | ④ Assessment Of Location Safety Meeting | ⑦ Rig-Up Equipment | ⑩ Start Job | ⑬ Pump H2O Spacer | ⑯ Pump Lead Cement | ⑲ Check weight | ⑳ Clean Pur |
| ② Pre-Convoy Safety Meeting | ⑤ Spot Equipment | ⑧ Finish Rig-Up | ⑪ Prime Lines | ⑭ Pump Mud Flush III | ⑰ Slow Rate | ⑳ Slow Rate | ㉓ Drop Plug |
| ③ Crew Leave Yard | ⑥ Pre-Rig Up Safety Meeting | ⑨ Pre-Job Safety Meeting | ⑫ Test Lines | ⑮ Check weight | ⑱ Pump Tail Cement | ㉑ Shutdown | ㉔ Pump Dis |



TERRA, YOUBERG SR 344-12, 4 1/2" PRODUCTION



Job Information

Request/Slurry	2350926/2	Rig Name	H&P 318	Date	18/NOV/2016
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	SR 344-12

Well Information

Casing/Liner Size	4.5 in	Depth MD	9599 ft	BHST	115°C / 239°F
Hole Size	8.75 in	Depth TVD	9376 ft	BHCT	76°C / 169°F
Pressure	5860 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	9.9 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>	<u>Cement Properties</u>		
		NeoCem				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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Operation Test Results Request ID 2350926/2

Thickening Time

20/NOV/2016

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
169	5860	47	13	6:06	6:20	6:35	6:47	7:19

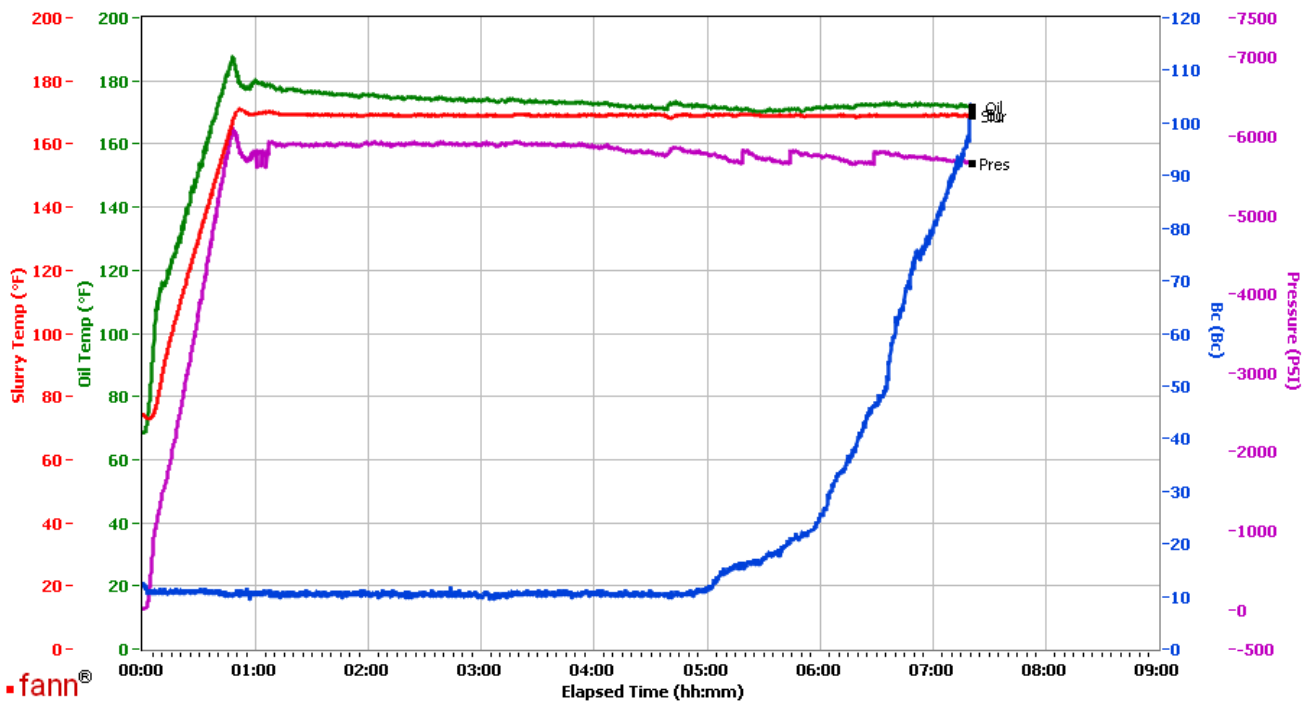
Total Sacks= 830
CS1110 TR 8678 415 SKS

Grand Junction, Colorado

Fields	Values
Project Name	GJ2350926-2 TERRA PRODUCTION BULK LE
Test ID	34131602
Request ID	GJ2350926-2 TERRA PRODUCTION BULK LE
Tested by	JASON
Customer	TERRA
Well No	SR 344-12
Rig	H&P 318
Casing/Liner Size	4.5

Fields	Values
Job Type	PRODUCTION
Cement Type	NEOCEM
Cement Weight	Light Weight
Test Date	11/19/16
Test Time	09:13 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	06h:06m
40.00 Bc	06h:20m
50.00 Bc	06h:35m
70.00 Bc	06h:47m
100.00 Bc	07h:19m
00h:30m	10.58
01h:00m	10.43
01h:30m	10.77



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 Comments CS1110 TR 8678 415 SKS

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169	5860	47	11	7:04	7:13	7:27	7:45	13:29

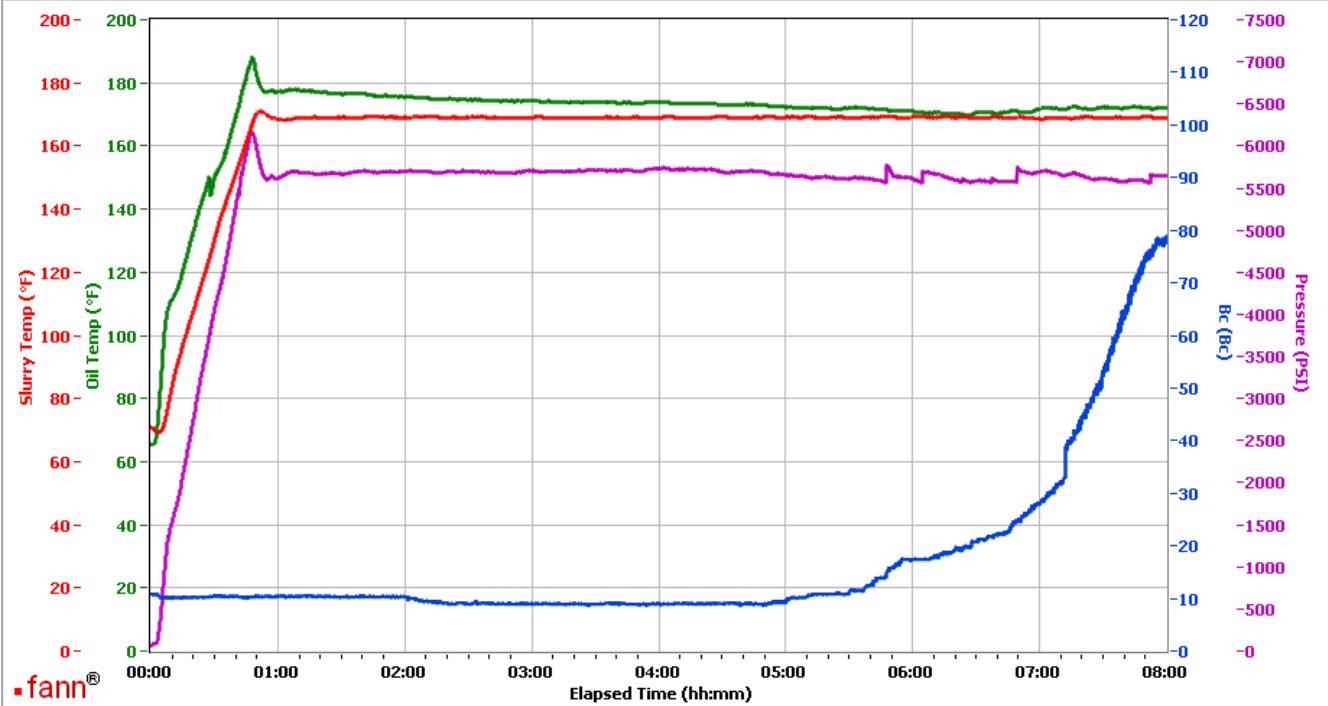
Total Sacks= 830
CS1109 TR 1513 415 SKS

Grand Junction Colorado

Fields	Values
Project Name	GJ2350926-1 TERRA PRODUCTION BULK LE
Test ID	34130176
Request ID	GJ2350926-1 TERRA PRODUCTION BULK LE
Tested by	JASON
Customer	TERRA
Well No	SR 344-12
Rig	H&P 318
Casing/Liner Size	4.5

Fields	Values
Job Type	PRODUCTION
Cement Type	NEOCEM
Cement Weight	Light Weight
Test Date	11/19/16
Test Time	08:21 PM
Temp. Units	degF
Pressure Units	PSI
SW Version	2.1.0.507

Events	Results
30.00 Bc	07h:04m
40.00 Bc	07h:13m
50.00 Bc	07h:27m
70.00 Bc	07h:45m
100.00 Bc	13h:29m
00h:30m	9.02
01h:00m	9.02
01h:30m	9.02



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Comments CS1109 TR 1513 415 SKS

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Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	9.9 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	
		ThermaCem				Slurry Density	13.3 lbm/gal
						Slurry Yield	1.733 ft ³ /sack
						Water Requirement	7.799 gal/sack
						Total Mix Fluid	7.799 gal/sack
						Water Source	Fresh Water
						Water Chloride	

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Operation Test Results Request ID 2350927/1

Thickening Time

21/NOV/2016

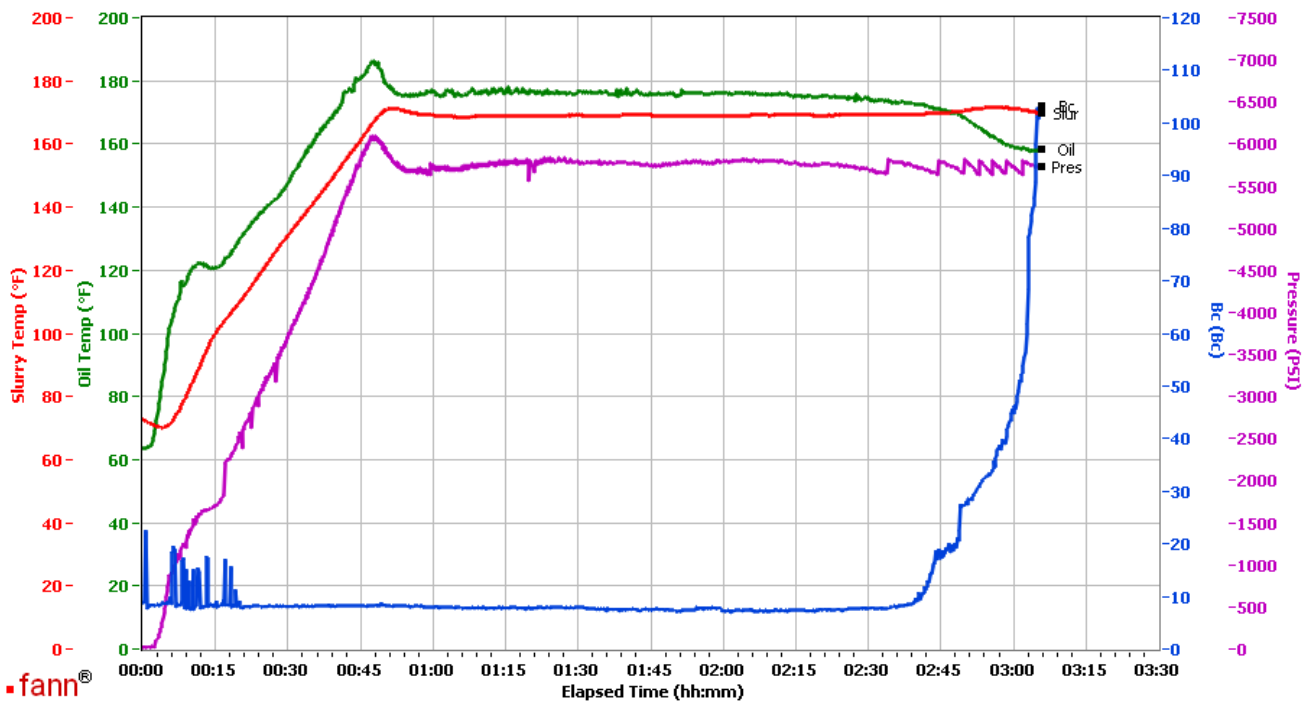
Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
169	5860	47	8	2:52	3:58	3:01	3:03	3:04

Total Sacks= 265

CS1111 TR#3212 265 KS

Grand Junction Colorado

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2350927-1	Job Type		30.00 Bc	02h:52m
Test ID	GJ2350927-1 TERRA BULK TAIL	Cement Type		40.00 Bc	02h:58m
Request ID		Cement Weight	Standard	50.00 Bc	03h:01m
Tested by	DEBA	Test Date	11/20/16	70.00 Bc	03h:03m
Customer	TERRA ENERGY PARTNERS	Test Time	01:12 PM	100.00 Bc	03h:04m
Well No	SR 344-12	Temp. Units	degF	00h:30m	8.05
Rig		Pressure Units	PSI	01h:00m	7.91
Casing/Liner Size		SW Version	2.1.0.507	01h:30m	7.90



Data File C:\Documents and Settings\M290\Local Settings\Temporary Internet Files\Content.IE5\0HU9OBIZ\GJ2350927-1 TERRA BULK TAIL[1].tdms

Comments CS1111 TR#3212 265 SKS

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