

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

For: Terra

Date: Thursday, July 06, 2017

TR 321-23-597 Production PJR

API# 05-045-23463-00

Sincerely,

Grand Junction Cement Engineering

2.0 Real-Time Job Summary

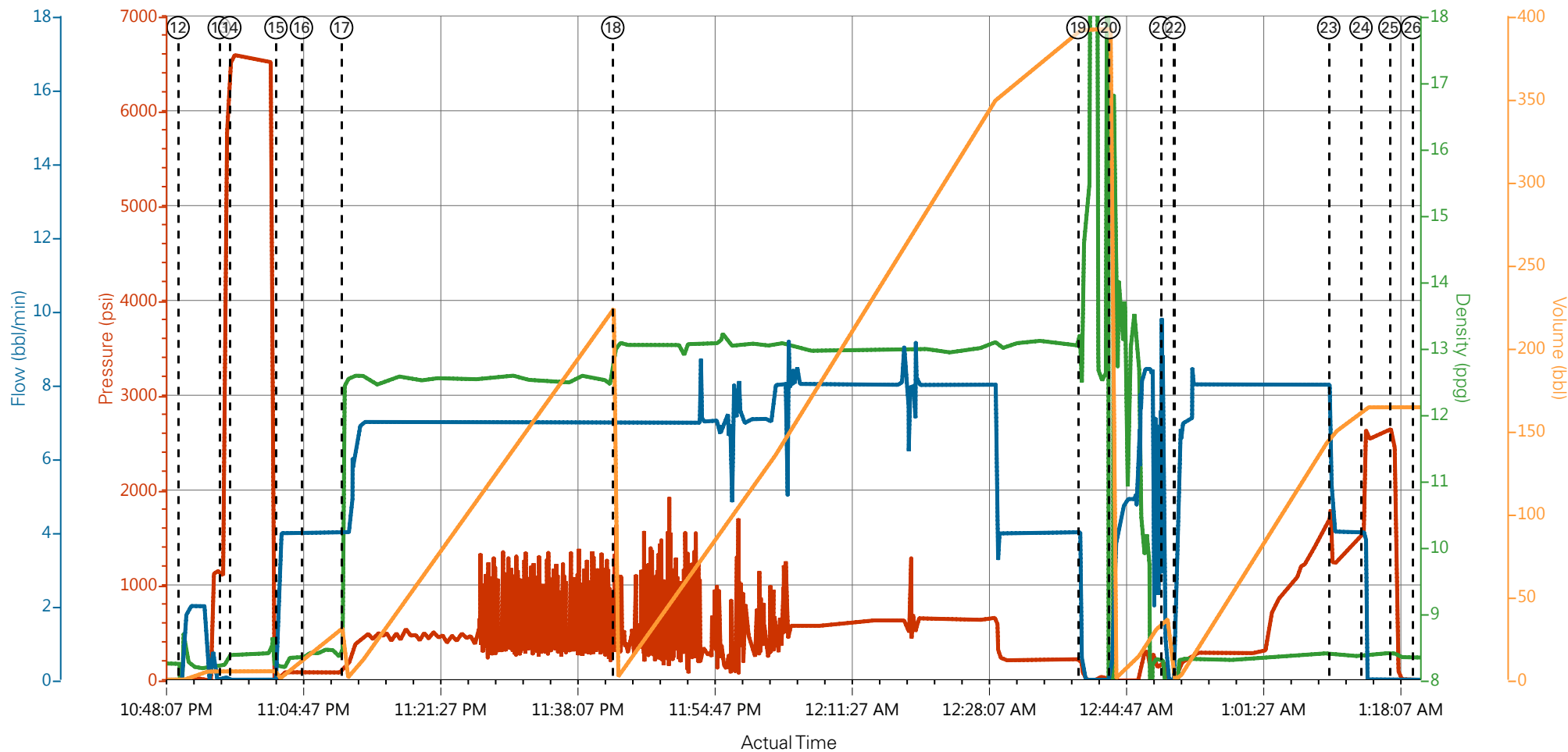
2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	Driv-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	7/5/2017	11:30:00	USER					HES crew called out at 1130 on 7/5/17, requested on location at 1800 on 7/5/17
Event	2	Depart Yard Safety Meeting	7/5/2017	13:00:00	USER					HES crew discuss the hazards of driving to location
Event	3	Depart from Service Center or Other Site	7/5/2017	13:30:00	USER					HES crew depart from yard to location
Event	4	Arrive At Loc	7/5/2017	18:00:00	USER					Rig running casing
Event	5	Assessment Of Location Safety Meeting	7/5/2017	18:10:00	USER					Customer was offered/received MSDS
Event	6	Pre-Rig Up Safety Meeting	7/5/2017	18:15:00	USER					Hes crew discuss the hazards of rigging up equipment
Event	7	Rig-Up Equipment	7/5/2017	18:20:00	USER					Rig up all iron and water hoses
Event	8	Rig-Up Completed	7/5/2017	19:30:00	USER					Rig-up Complete
Event	9	Pre-Job Safety Meeting	7/5/2017	22:30:00	USER	-8.00	8.25	0.00	0.0	Hes and rig crew discuss the hazards of rigging up the rig floor and pumping the job
Event	10	Well Informaiton	7/5/2017	22:31:00	USER	-8.00	8.25	0.00	0.0	TD: __10686__, TP __10676__, SJ: __29__, OH: __8.75__, Casing: Size/Weight/Grade: __4.5__11.6#__P-110__, Previous Casing Shoe: __3040__
Event	11	Rig Info	7/5/2017	22:32:00	USER	-8.00	8.25	0.00	0.0	Rig Circulation: __600__bbls, Rate __10.7__bbl/min, Pressure __1000__PSI, MW __8.8__ ppg, Pipe Movment __No__, Rat

										Hole Length__10__
Event	12	Start Job	7/5/2017	22:50:00	USER	-11.00	7.84	0.00	0.0	Start Job, pump 5 bbls ahead to fill pumps and lines
Event	13	Pressure Test	7/5/2017	22:55:00	USER	1101.00	8.22	0.00	5.0	500 psi low pressure kickout test
Event	14	Pressure Test	7/5/2017	22:56:16	USER	6595.00	8.38	0.00	5.1	Pressure test hes iron to 8000 psi
Event	15	Pump Spacer	7/5/2017	23:01:53	USER	29.00	8.21	3.60	0.6	Pump 10 bbls water spacer
Event	16	Pump Spacer	7/5/2017	23:04:59	USER	81.00	8.33	4.00	12.9	Pump 20 bbls of mud flush
Event	17	Pump Lead Cement	7/5/2017	23:09:52	USER	151.00	12.52	4.00	0.2	Pump 580 sks of NeoCem Lead at 12.5 ppg, 1.94 ft3/sack, 9.58 gal/sack at 8 bpm
Event	18	Pump Tail Cement	7/5/2017	23:42:49	USER	353.00	13.06	6.90	0.6	Pump 865 sks of NeoCem Tail at 13 ppg, 2.07 ft3/sack, 9.43 gal/sack at 8 bpm
Event	19	Shutdown	7/6/2017	00:39:20	USER	140.00	12.45	0.60	392.1	Shutdown
Event	20	other	7/6/2017	00:43:06	USER	-9.00	1.65	1.70	392.2	Wash pumps and lines to the pit
Event	21	Drop Top Plug	7/6/2017	00:49:24	USER	155.00	8.27	5.90	36.1	Drop HES top plug, customer witnessed
Event	22	Pump Displacement	7/6/2017	00:51:00	USER	31.00	8.29	3.50	0.6	Pump 165 bbls of KCL displacement
Event	23	Slow Rate	7/6/2017	01:09:49	USER	1217.00	8.38	4.10	147.8	Slow Rate to 3 bpm last 20 bbls of KCL displacement
Event	24	Bump Plug	7/6/2017	01:13:44	USER	1564.00	8.37	4.00	163.6	Bump Plug 1000 psi over final circulating pressure. Final circulating PSI was 1600
Event	25	Check Floats	7/6/2017	01:17:15	USER	2634.00	8.40	0.00	164.2	Check Floats, 1.5 bbls back to HES cement pump
Event	26	End Job	7/6/2017	01:20:00	USER	-8.00	8.33	0.00	164.2	End Job
Event	27	Pre-Rig Down Safety Meeting	7/6/2017	01:25:00	USER	-7.00	8.33	0.00	164.2	HES and rig crew discuss the hazards of rigging down equipment
Event	28	Rig-Down Equipment	7/6/2017	01:30:00	USER	-10.00	0.09	0.00	164.2	Rig-Down equipment
Event	29	Rig-Down Completed	7/6/2017	02:00:00	USER					Rig-Down complete

Event	30	Pre-Convoy Safety Meeting	7/6/2017	02:15:00	USER	HES crew discuss the hazards of driving
Event	31	Other	7/6/2017	02:16:00	USER	Items being returned: Top Plug
Event	32	Well Information	7/6/2017	02:17:00	USER	Spacer: __20__ bbl TOS_____ Lead Cement: __200__ bbl, __580__ sks, TOC__1284____ Tail Cement: __319__ bbl, __865__ sks, TOC__4854____ Displacement: __165__ bbl CMT left in Pipe__29__ Reason_____ Job complete, estimated top of cement at 4854 ft, 0 bbls of spacer back to surface, thank you for using Halliburton
Event	33	Job Complete	7/6/2017	02:30:00	USER	

TEP 271 Chevron TR 321-23-597 Production



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

① Call Out n/a;n/a;n/a;n/a	⑩ Well Informaiton -8;8.25;0;0	⑲ Shutdown 140;12.45;0.6;392.1	28 Rig-Down Equipment -10;0.09;0;164.2
② Depart Yard Safety Meeting n/a;n/a;n/a;n/a	⑪ Rig Info -8;8.25;0;0	20 other -9;1.65;1.7;392.2	29 Rig-Down Completed n/a;n/a;n/a;n/a
③ Depart from Service Center or Other Site n/a;n/a;n/a;n/a	⑫ Start Job -11;7.84;0;0	21 Drop Top Plug 155;8.27;5.9;36.1	30 Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
④ Arrive At Loc n/a;n/a;n/a;n/a	⑬ Pressure Test 1101;8.22;0;5	22 Pump Displacement 31;8.29;3.5;0.6	31 Other n/a;n/a;n/a;n/a
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑭ Pressure Test 6595;8.38;0;5.1	23 Slow Rate 1217;8.38;4.1;147.8	32 Well Information n/a;n/a;n/a;n/a
⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑮ Pump Spacer 29;8.21;3.6;0.6	24 Bump Plug 1564;8.37;4;163.6	33 Job Complete n/a;n/a;n/a;n/a
⑦ Rig-Up Equipment n/a;n/a;n/a;n/a	⑯ Pump Spacer 81;8.33;4;12.9	25 Check Floats 2634;8.4;0;164.2	
⑧ Rig-Up Completed n/a;n/a;n/a;n/a	⑰ Pump Lead Cement 151;12.52;4;0.2	26 End Job -8;8.33;0;164.2	
⑨ Pre-Job Safety Meeting -8;8.25;0;0	⑱ Pump Tail Cement 353;13.06;6.9;0.6	27 Pre-Rig Down Safety Meeting -7;8.33;0;164.2	

▼ **HALLIBURTON** | iCem® Service

Created: 2017-07-05 20:22:38, Version: 4.2.393

Edit

Customer: TERRA ENERGY PARTNERS

Job Date: 7/5/2017 9:11:04 PM

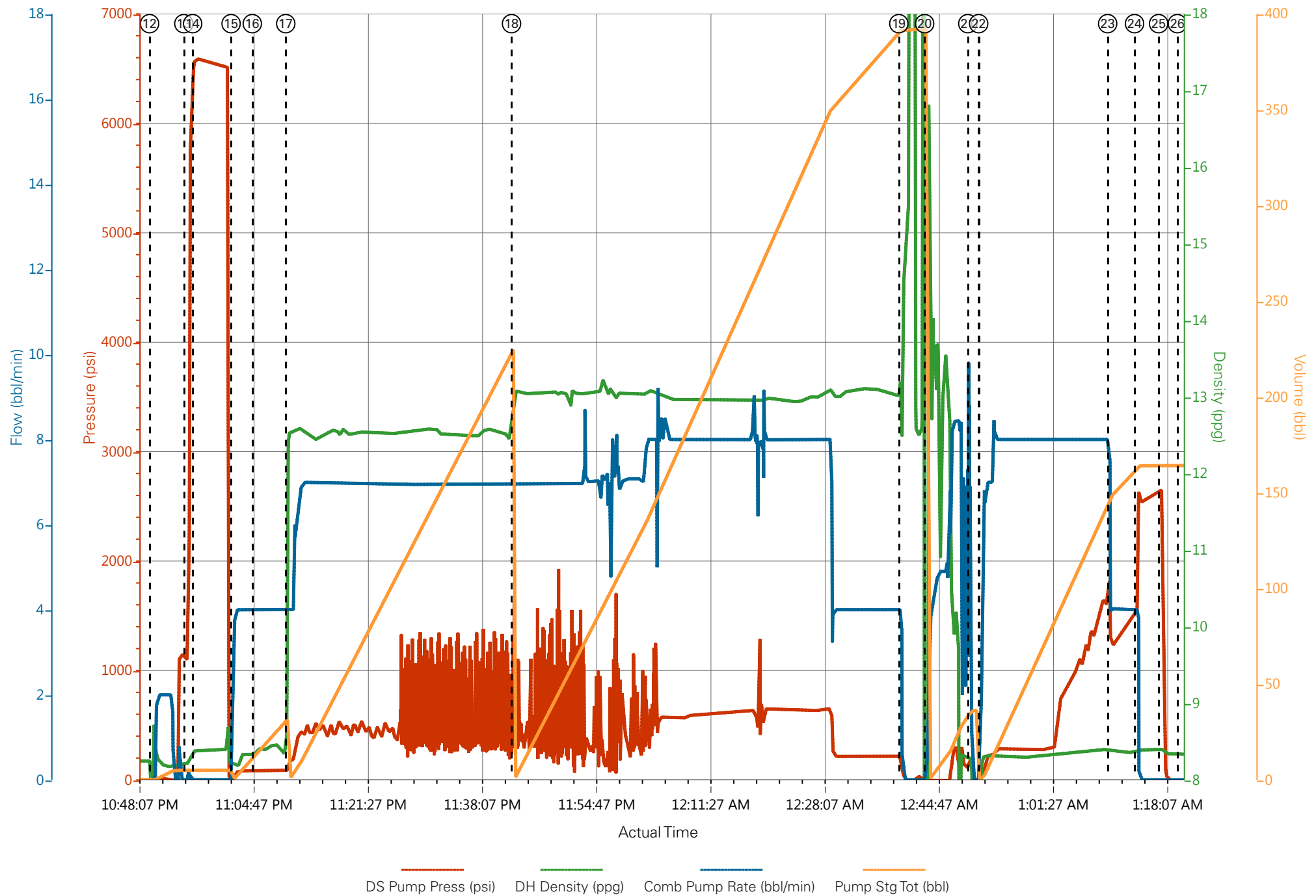
Well: Chevron TR 321-23-597

Representative: Eric Fuchs

Sales Order #: 904144200

Elite # 11318724: E.Fuchs / L.Ashcroft

TEP 271 Chevron TR 321-23-597 Production



HALLIBURTON

Rockies, Grand Junction

Lab Results- Lead

Job Information

Request/Slurry	2398455/1	Rig Name	H&P 271	Date	30/JUN/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	TR 321-23-597

Well Information

Casing/Liner Size	4.5 in	Depth MD	10885 ft	BHST	123°C / 254°F
Hole Size	8.75 in	Depth TVD	10240 ft	BHCT	89°C / 193°F
Pressure	6470 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	10.4 lbm/gal
--------------------------	--------	-----------------------	------------	----------------	--------------

Cement Information - Lead Design



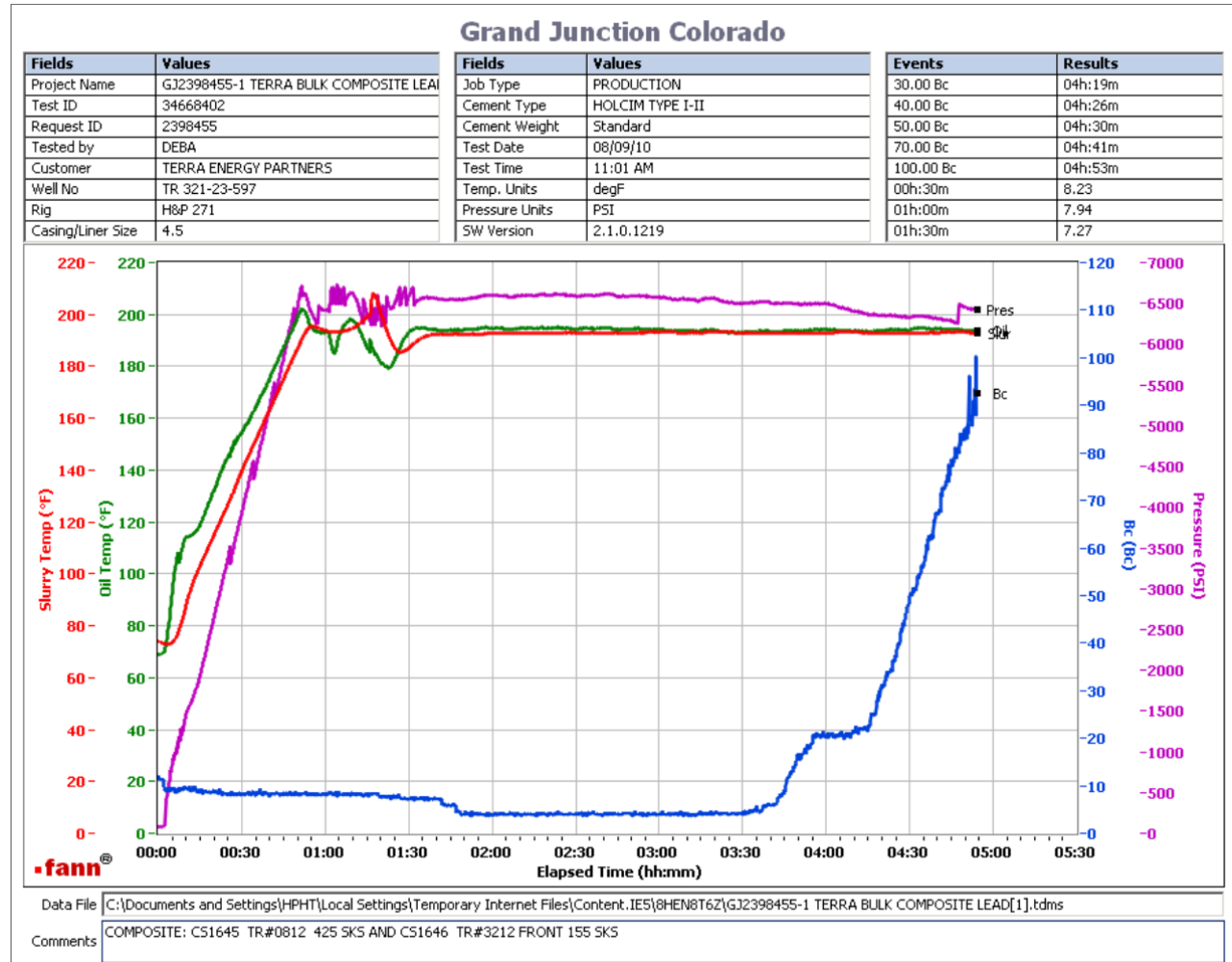
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		NeoCem Lead				Slurry Density	12.5	lbm/gal
						Slurry Yield	1.941	ft3/sack
						Water Requirement	9.623	gal/sack
						Total Mix Fluid	9.623	gal/sack
						Water Source	Fresh Water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

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Thickening Time - ON-OFF-ON

02/JUL/2017

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
193	8470	51	4:19	4:30	4:41	4:53	11	61	15	8



Total sks = 580

Composite:

CS 1645 TR#0812 425 SKS

CS1646 TR#3212 front 155 SKS

no deflection was observed

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

HALLIBURTON

Rockies, Grand Junction

Lab Results- Tail

Job Information

Request/Slurry	2398456/1	Rig Name	H&P 271	Date	30/JUN/2017
Submitted By	Patrick Ealey	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	TR 321-23-597

Well Information

Casing/Liner Size	4.5 in	Depth MD	10885 ft	BHST	123°C / 254°F
Hole Size	8.75 in	Depth TVD	10240 ft	BHCT	89°C / 193°F
Pressure	6470 psi				

Drilling Fluid Information

Mud Supplier Name	Baroid	Mud Trade Name	BARADRIL-N	Density	10.4 lbm/gal
--------------------------	--------	-----------------------	------------	----------------	--------------

Cement Information - Tail Design



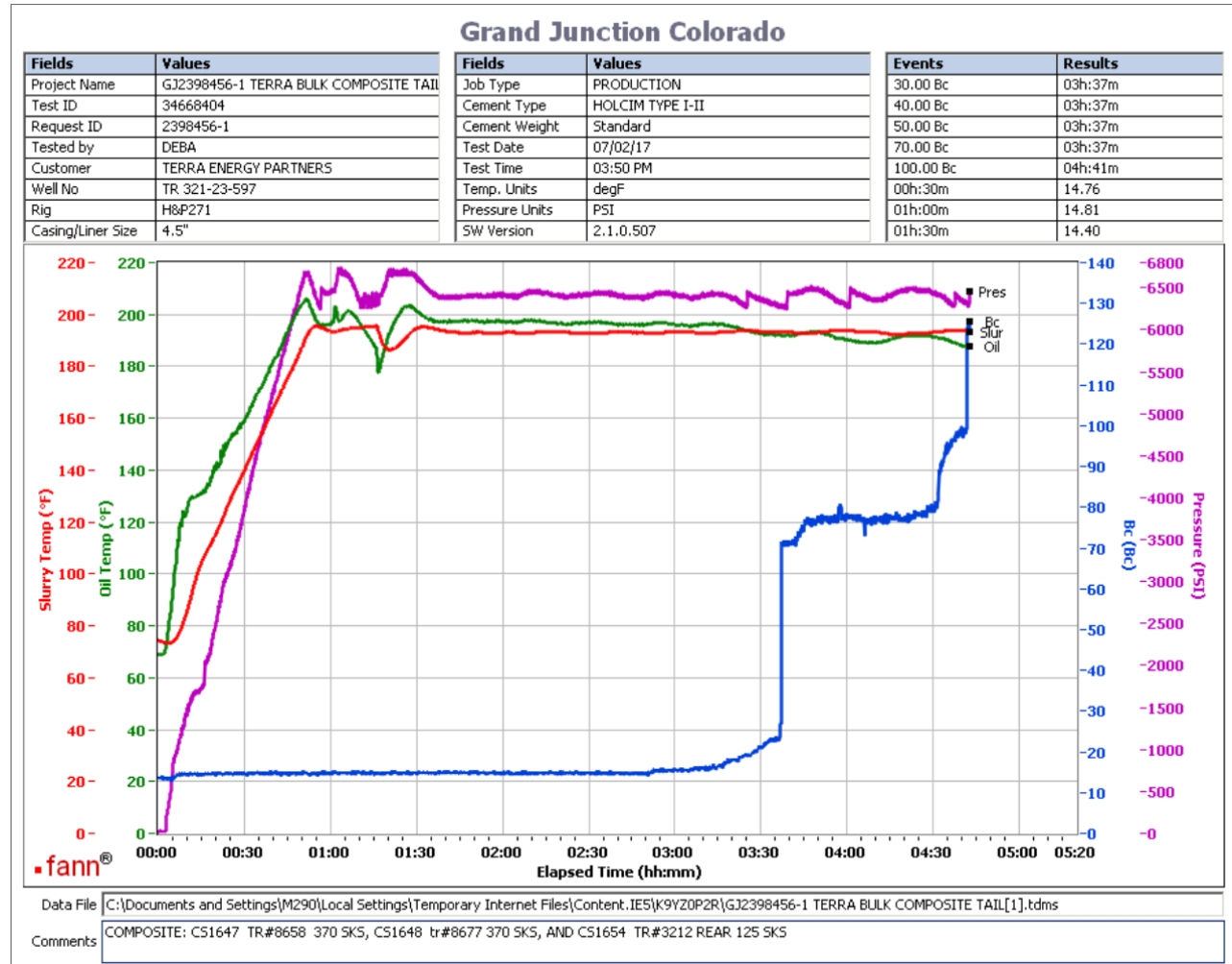
<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Sample Type</u>	<u>Sample Date</u>	<u>Lot No.</u>	Cement Properties		
		NeoCem Tail				Slurry Density	13	lbm/gal
						Slurry Yield	2.065	ft3/sack
						Water Requirement	9.424	gal/sack
						Total Mix Fluid	9.424	gal/sack
						Water Source	Fresh Water	
						Water Chloride		

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

Thickening Time - ON-OFF-ON

03/JUL/2017

Test Temp (°F)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
193	6470	51	3:37	3:37	3:37	4:41	14	61	15	14



Total sks 865 No deflection
 Composite:
 CS1647 TR# 8658 370 sks
 CS1648 TR#8677 370 sks
 CS1654 TR#3212 Rear 125 SKS

This report is the property of Halliburton Energy Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the expressed written approval of Halliburton. It may however be used in the course of regular business operations by any person or concern receiving such report from Halliburton. This report is for information purposes only and the content is limited to the sample described. Halliburton makes no warranties, expressed or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.