

HALLIBURTON

iCem[®] Service

TERRA ENERGY PARTNERS

United State of America, Colorado

For: TEP

Date: Sunday, November 11, 2018

SG 423-26 Production PJR

API #: 05-045-23947

Sincerely,

Grand Junction Cement Engineering

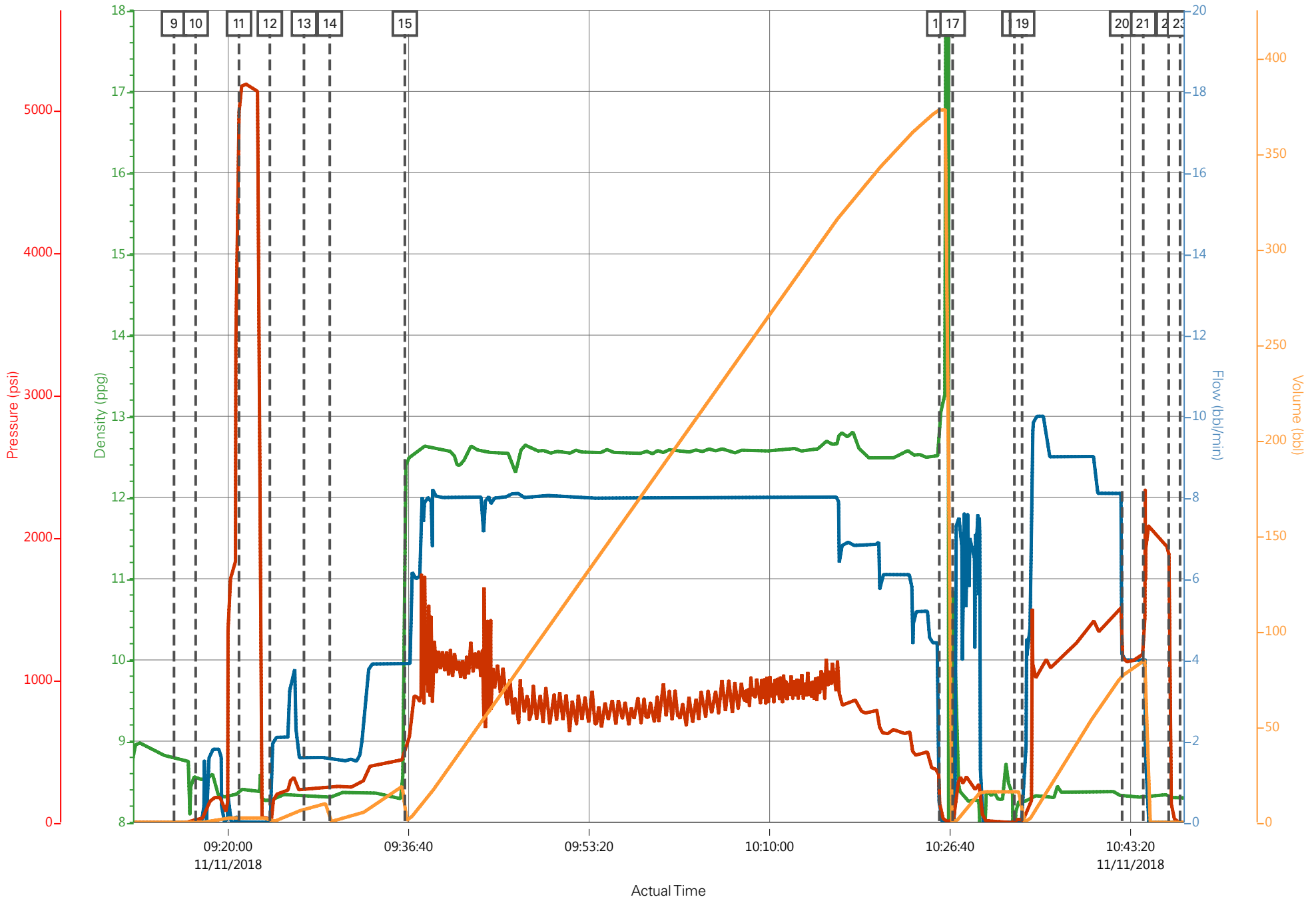
2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Call Out	11/11/2018	01:00:00	USER					Requested on Location @ 6:30
Event	2	Pre-Convoy Safety Meeting	11/11/2018	03:50:00	USER					All HES Present
Event	3	Crew Leave Yard	11/11/2018	04:00:00	USER					1 Elite, 1 660, 1 pickup
Event	4	Arrive at Location from Service Center	11/11/2018	05:00:00	USER					Rig running casing
Event	5	Assessment Of Location Safety Meeting	11/11/2018	05:15:00	USER					JSA completed - Customer offered/received SDS - water test pH 7.0, CI <200, temp 78 degrees
Event	6	Pre-Rig Up Safety Meeting	11/11/2018	05:32:24	USER					1 hardline to standpipe, water hoses to upright, bulk hose to 660 and silo.
Event	7	Other	11/11/2018	08:10:00	USER					Rig Circulated 45 mins prior to cement job at 500 gpm 1014 psi
Event	8	Pre-Job Safety Meeting	11/11/2018	08:15:00	USER					All HES personnel, rig crew, and company rep
Event	9	Start Job	11/11/2018	09:15:00	USER	8.34	0.00	-2.00	0.00	TD 5564', TP 5567.49, SJ 40.07', FC 5527.42' OH 8 3/4", Csg 4.5", 11.6 lb/ft P110, SCsg 9.625" 32.3 lb/ft @ 1014', Mud 10.4 ppg.
Event	10	Fill Lines	11/11/2018	09:17:00	USER	8.34	1.80	180.00	2.00	Fresh Water
Event	11	Test Lines	11/11/2018	09:21:00	USER	8.39	0.00	5185.00	2.30	Held pressure 2 minutes no leaks
Event	12	Pump Spacer 1	11/11/2018	09:23:51	COM5	8.27	2.00	232.00	10.00	Fresh Water
Event	13	Pump Mud Flush	11/11/2018	09:27:00	USER	8.32	4.00	495.00	20.00	Mud Flush
Event	14	Check Weight	11/11/2018	09:29:23	USER					Density Verified via Mud Scales
Event	15	Pump Tail Cement	11/11/2018	09:36:19	USER	12.50	8.00	1500.00	357.80	1025 Sks 12.5 ppg 1.96 yield, 9.4 gal/sk
Event	16	Shutdown	11/11/2018	10:25:40	USER					Clean lines to pit

Event	17	Clean Lines	11/11/2018	10:26:54	COM5					Cleaned and Blew Lines back to pit
Event	18	Drop Top Plug	11/11/2018	10:32:36	USER					Co-Rep Verify Plug Launched
Event	19	Pump Displacement	11/11/2018	10:33:19	USER	8.40	0.00	1529.00	85.70	3 lbs BE-6, 1 gal MMCR, 2% KCl
Event	20	Slow Rate	11/11/2018	10:42:33	USER	8.40	4.00	1171.00	75.70	Slow Rate 10 bbls to calculated displacement
Event	21	Bump Plug	11/11/2018	10:44:30	USER	8.41	4.00	1177.00	85.70	Plug Bumped at 1200 psi, Brought up to 1970 psi
Event	22	Check Floats	11/11/2018	10:46:51	USER	8.34	0.00	1915.00	0.00	Floats held – ½ bbl back to the truck
Event	23	End Job	11/11/2018	10:47:54	USER	8.30	0.00	0.00	0.00	Good returns throughout job 10 Mud flush to surface. Pipe was reciprocated during job.
Event	24	Post-Job Safety Meeting (Pre Rig-Down)	11/11/2018	10:50:00	USER					All HES Present
Event	25	Pre-Convoy Safety Meeting	11/11/2018	12:00:00	USER					All HES Present
Event	26	Crew Leave Location	11/11/2018	12:15:00	USER					Thanks For Using Halliburton Cement. Andrew Brennecke And Crew.

TEP - 5 MILE RANCH SG 423-26 - 4.5" PRODUCTION



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

Job Information

Request/Slurry	2513656/2	Rig Name	H&P 271	Date	07/NOV/2018
Submitted By	Lukas Van Zyl	Job Type	Production Casing	Bulk Plant	Grand Junction
Customer	Terra Energy Partners	Location	Garfield	Well	SG 423-26

Well Information

Casing/Liner Size	4.5 in	Depth MD	5588 ft	BHST	76°C / 168°F
Hole Size	8.75 in	Depth TVD	5175 ft	BHCT	45°C / 113°F
Pressure	3005 psi				

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>	<u>Cement Properties</u>		
						Slurry Density	12.5	lbm/gal
						Slurry Yield	1.962	ft3/sack
						Water Requirement	9.434	gal/sack
						Total Mix Fluid	9.434	gal/sack
						Water Source	Fresh Water	
						Water Chloride	N/A	

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Operation Test Results Request ID 2513656/2

Thickening Time - ON-OFF-ON

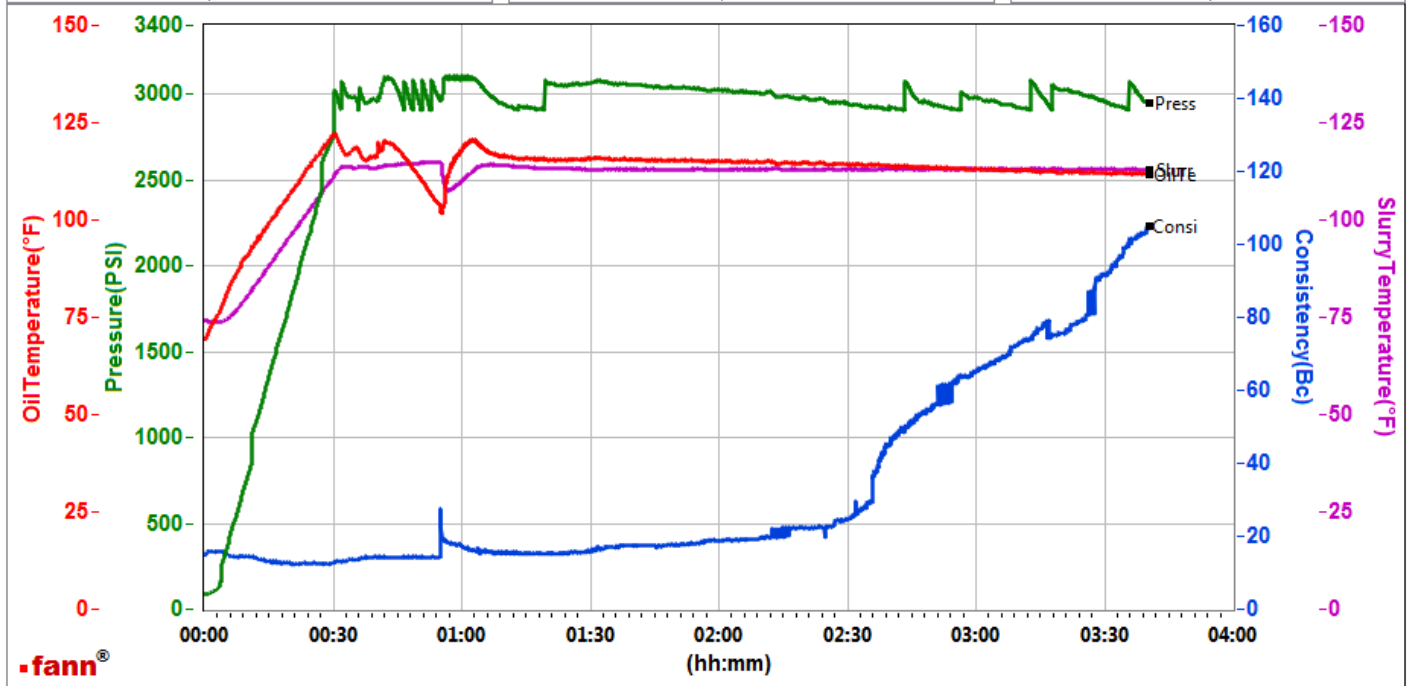
09/NOV/2018

Test Temp (degF)	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)
113	3005	30	2:35	2:43	3:07	3:35	15	40	15	27

Total SKS 1025
 CS2436, Trailer 1972, 225 sks
 Deflection: 14 - 27

GRAND JUNCTION

Fields	Values	Fields	Values	Events	Results
Project Name	2513656-2 H&P 271 Terr	Rig	H&P 271	30 BC	2:35
SW Version	1.0	Casing/Liner Size	4.5 INCH	50 BC	2:43
Test ID	35968243 - TT	Job Type	PRODUCTION CASING	70 BC	3:07
Request ID	2513656-2	Cement Weight	GCC NTYPE I-II	100 BC	3:35
Tested by	CT	Comments	Standard		
Customer	TERRA ENERGY PARTN	Date Time	11/9/2018 06:35:53.790		
Well No	SG 423-26	Temp. Units	degF		



Data File	C:\Users\H185329\Desktop\000 Graphs\GJ2513656-2 TERRA BULK PRODUCTION PRIMARY.tdms
Comments	Standard

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Operation Test Results Request ID 2513656/1

Thickening Time - ON-OFF-ON

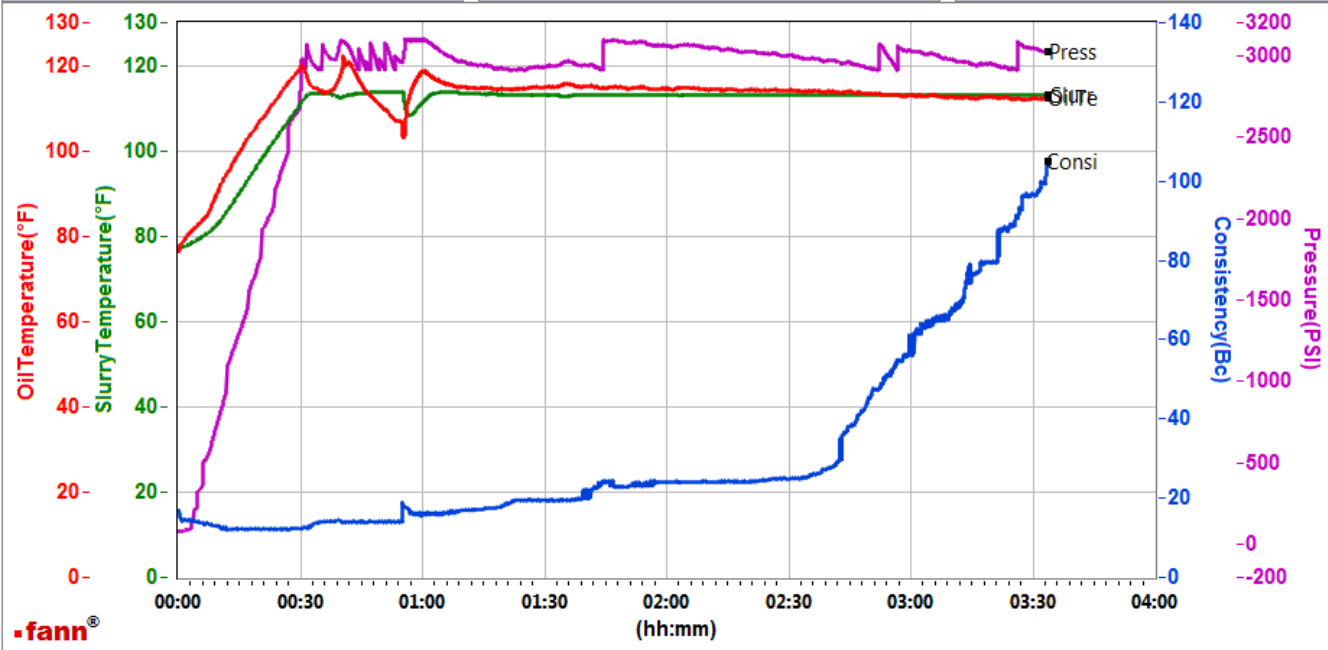
09/NOV/2018

Test Temp (degF)	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)
113	3005	30	2:43	2:53	3:12	3:32	16	40	15	19

Total SKS 1025
 CS2428, Trailer 1513, 400 sks
 CS2429, Trailer 8476, 400 sks
 Deflection: 14-- > 19

GRAND JUNCTION

Fields	Values	Fields	Values	Events	Results
Project Name	GJ2513656-1 Terra Produ	Rig	H&P 271	30 Bc	02:43
SW Version	1.0	Casing/Liner Size	4.5 INCH	50 Bc	02:53
Test ID	35962942 - TT	Job Type	PRODUCTION CASING	70 Bc	03:12
Request ID	2513656-1	Cement Weight	GCC NTYPE I-II	100 Bc	03:32
Tested by	CT	Comments	Standard		
Customer	TERRA ENERGY PARTN	Date Time	11/8/2018 13:28:50.034		
Well No	SG 423-26	Temp. Units	degF		



Data File P:\Z Lab\HPHT 3\GJ2513656-1 TERRA BULK PRODUCTION PRIMARY.tdms
 Comments Standard

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