

Caerus Oil and Gas LLC - EBUS

Puckett 41D-2

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 05/24/2015

Job Date: 05/19/2015

Submitted by: Jenna Cook – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3624607	Quote #: 0022051001	Sales Order #: 0902422572
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: WHITEY COTTMAN	
Well Name: PUCKETT	Well #: 41D-2	API/UWI #: 05-045-22623-00	
Field: WILDCAT	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 2-7S-97W-2175FNL-661FEL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977		Srcv Supervisor: DAVID CAMPBELL	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	2515 FT		Job Depth TVD
Water Depth			Wk Ht Above Floor 5 FT
Perforation Depth (MD)	From		To

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36		J-55	0	2510		0
Open Hole Section			14.75				0	2515		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		2510	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625		
Float Collar	9.625	1		2465.56	SSR plug set	9.625		
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	10	bbl	8.34			4		
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Super Flush 101	Super Flush 101	30	bbl	10			4		

21 gal/bbl		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Fresh Water	Fresh Water	10	bbl	8.34			4	
23.08 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Lead Cement	VARICEM (TM) CEMENT	375	sack	11	3.65		6	23.08
23.08 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
5	Tail Cement	VARICEM (TM) CEMENT	160	sack	12.8	2.18		6	12.11
12.11 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
6	Displacement	Displacement	190.5	bbl	8.34			4	
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
7	ReverCem	REVERCEM (TM) CEMENT	241	sack	12.8	2.12		2	11.15
11.15 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
8	Type 1/2	Type I-II Cement	0	sack	15.6	1.16		3	5.02
0.10 Gal		CALCIUM CHLORIDE - LIQUID, 5 GAL PAIL (100005054)							
5.02 Gal		FRESH WATER							
94 lbm		TYPE I / II CEMENT, BULK (101439798)							
Cement Left In Pipe	Amount	44 ft			Reason			Shoe Joint	
Mix Water:	7	Mix Water Chloride:	0 ppm		Mix Water Temperature:		50		
Cement Temperature:		Plug Displaced by:	8.33 lb/gal		Disp. Temperature:		50		
Plug Bumped?	Yes	Bump Pressure:	110 psi		Floats Held?		Yes		
Cement Returns:		Returns Density:			Returns Temperature:				
Comment									

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	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	5/19/2015	06:00:00	USER					ELITE #4
Event	2	Pre-Convoy Safety Meeting	5/19/2015	10:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	5/19/2015	13:00:00	USER					ARRIVED ON LOCATION 1 HOUR EARLY DID NOT START CHARGING HOURS UNTIL REMAINING BULK TRUCKS ARRIVED ON LOCATION AT 17:00
Event	4	Assessment Of Location Safety Meeting	5/19/2015	13:15:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	5/19/2015	13:45:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	5/19/2015	14:00:00	USER					1 HT-400 PUMP TRUCK (ELITE #4) 2 660 BULK TRUCKS 1 SUPERFLUSH TRANSPORT 1- SILO 1- F-550 PICKUP
Event	7	Pre-Job Safety Meeting	5/19/2015	17:00:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG PUMPED FOR 2 HOURS AND NEVER HAD RETURNS
Event	8	Start Job	5/19/2015	17:21:50	COM5					TD: 2515 TP: 2509.5 SJ: 43.94 CSG: 9 5/8 36# J-55 OH: 14 3/4 MUD WEIGHT 8.8 PPG
Event	9	Prime Pumps	5/19/2015	17:23:12	COM5	8.33	2.00	35.00	2.0	2 BBL FRESH WATER
Event	10	Test Lines	5/19/2015	17:25:17	COM5	8.33	0.00	3678.00	2.0	PRESSURE TEST OK

Event	11	Pump Spacer 1	5/19/2015	17:27:35	COM5	8.33	4.0	102.0	10.0	10 BBL FRESH WATER SPACER
Event	12	Pump Spacer 2	5/19/2015	17:30:33	COM5	10.0	4.0	120.0	20.0	20 BBL SUPER FLUSH 101
Event	13	Pump Spacer 1	5/19/2015	17:36:01	COM5	8.33	4.0	131.0	10.0	10 BBL FRESH WATER SPACER
Event	14	Pump Lead Cement	5/19/2015	17:42:45	COM5	11.0	6.0	285.0	243.7	375 SKS 11 PPG 3.65 YIELD 23.08 GAL /SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES TUFF FIBER SPREAD THROUGHOUT LEAD
Event	15	Pump Tail Cement	5/19/2015	18:26:20	COM5	12.8	6.0	314.0	62.2	160 SKS 12.8 PPG 2.18 YIELD 12.11 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES TUFF FIBER SPREAD THROUGHOUT TAIL
Event	16	Shutdown	5/19/2015	18:41:29	USER					
Event	17	Drop Top Plug	5/19/2015	18:44:31	USER					PLUG AWAY NO PROBLEMS
Event	18	Pump Displacement	5/19/2015	18:45:35	COM5	8.4	4.5	160.0	190.5	FRESH WATER DISPLACEMENT WASH UP ON TOP OF PLUG AS PER COMPANY REP.
Event	19	Slow Rate	5/19/2015	19:32:53	USER	8.4	2.0	82.00	180.5	SLOW RATE TO BUMP PLUG
Event	20	Bump Plug	5/19/2015	19:38:11	COM5	8.4	2.0	612.0	190.5	PRESSURE AT 110 PSI PRIOR TO BUMPING PLUG BUMPED PLUG UP TO 612 PSI
Event	21	Other	5/19/2015	19:39:42	COM5					FLOATS HELD 1 BBL BACK TO TRUCK TANKS
Event	22	Other	5/19/2015	20:03:44	USER	8.33	1.0	62.0	10.0	10 BBLS SUGAR WATER DOWN PARASITE LINE AS PER COMPANY REP.
Event	23	End Job	5/19/2015	20:14:29	COM5					PIPE WAS STATIC

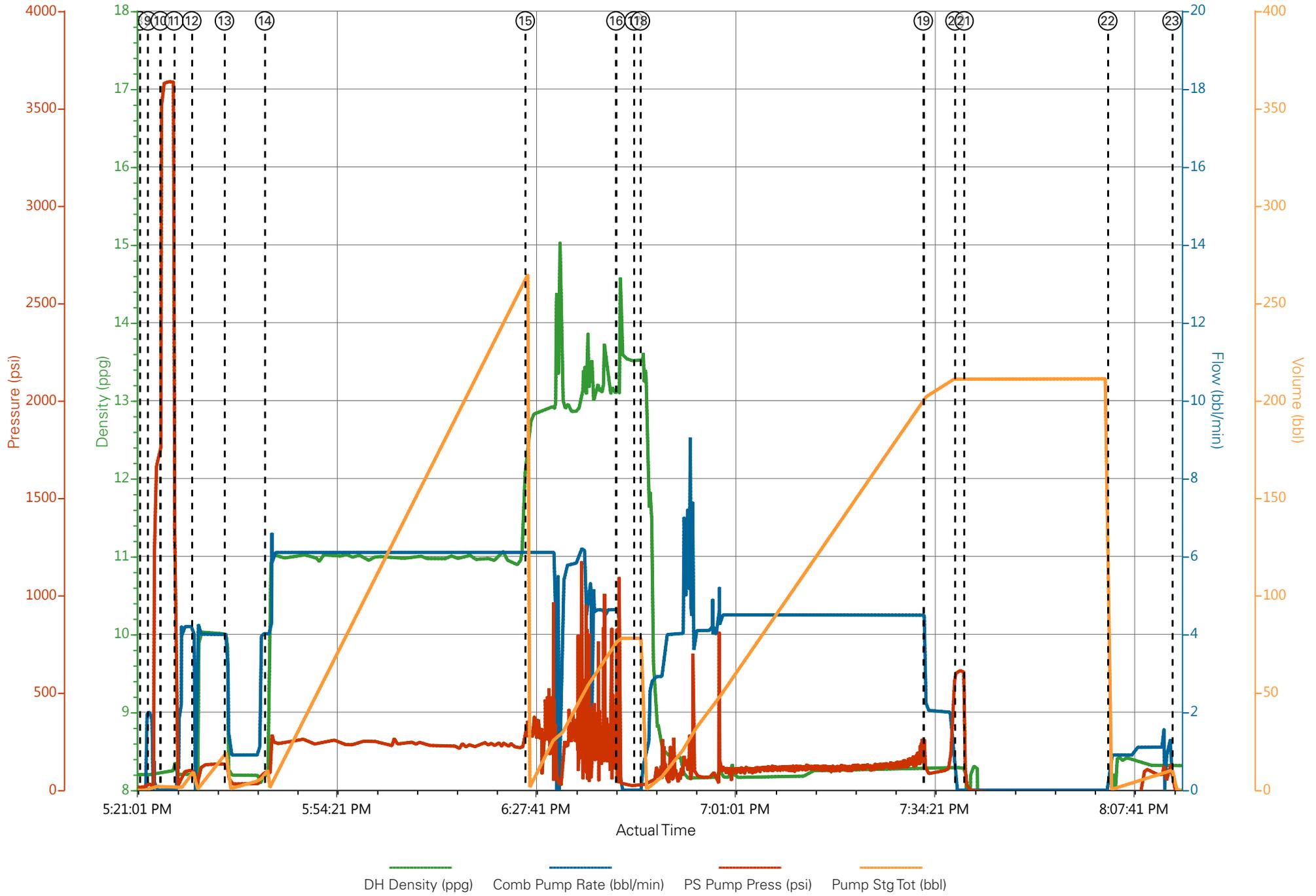
THROUGHOUT JOB NO
RETURNS THROUGHOUT
JOB NOTHING WAS
CIRCULATED TO SURFACE

1.0 Real-Time Job Summary

1.1 Job Event Log

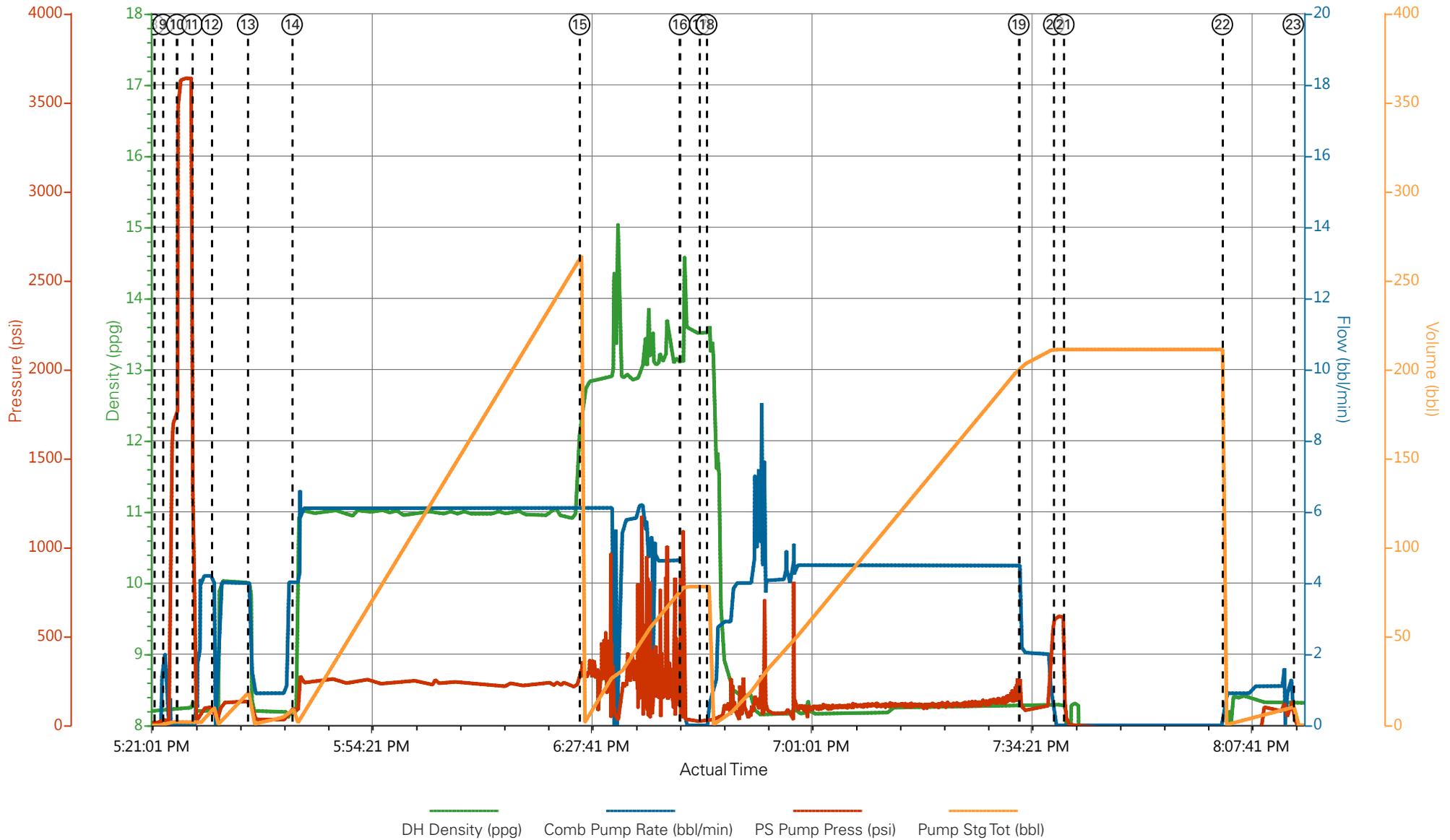
Type	Seq. No.	Activity	Date	Time	Source	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	PS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Pre-Rig Up Safety Meeting	5/19/2015	20:30:00	USER					ALL HES EMPLOYEES
Event	2	Rig-Up Equipment	5/19/2015	20:45:00	USER					RIG DOWN STAND PIPE AND FLOOR FROM PREVIOUS SURFACE RIG UP TO CELLAR FOR TOPOUT
Event	3	Start Job	5/20/2015	01:32:57	COM5					TOP OUT PUCKETT 41D-2
Event	4	Prime Pumps	5/20/2015	01:35:32	COM5	8.33	2.0	25.0	2.0	2 BBL FRESH WATER
Event	5	Pump Cement	5/20/2015	01:44:11	COM5	8.48	0.00	25.0	91.0	PUMPED 241 SKS 12.8 PPG 2.12 YIELD 11.15 GAL/SK CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	6	End Job	5/20/2015	02:58:01	COM5					241 SKS TO TOP OUT WELL USED TOTAL OF 30 BBL SUPER FLUSH 101
Event	7	Pre-Rig Down Safety Meeting	5/20/2015	03:15:00	USER					ALL HES EMPLOYEES
Event	8	Rig-Down Equipment	5/20/2015	03:30:00	USER					
Event	9	Pre-Convoy Safety Meeting	5/20/2015	04:30:00	USER					ALL HES EMPLOYEES
Event	10	Crew Leave Location	5/20/2015	05:00:00	USER					THANKS FOR USING HALLIBURTON CEMENT DAVID CAMPBELL AND CREW

CAERUS- PUCKETT 41D-2 - 9 5/8 SURFACE



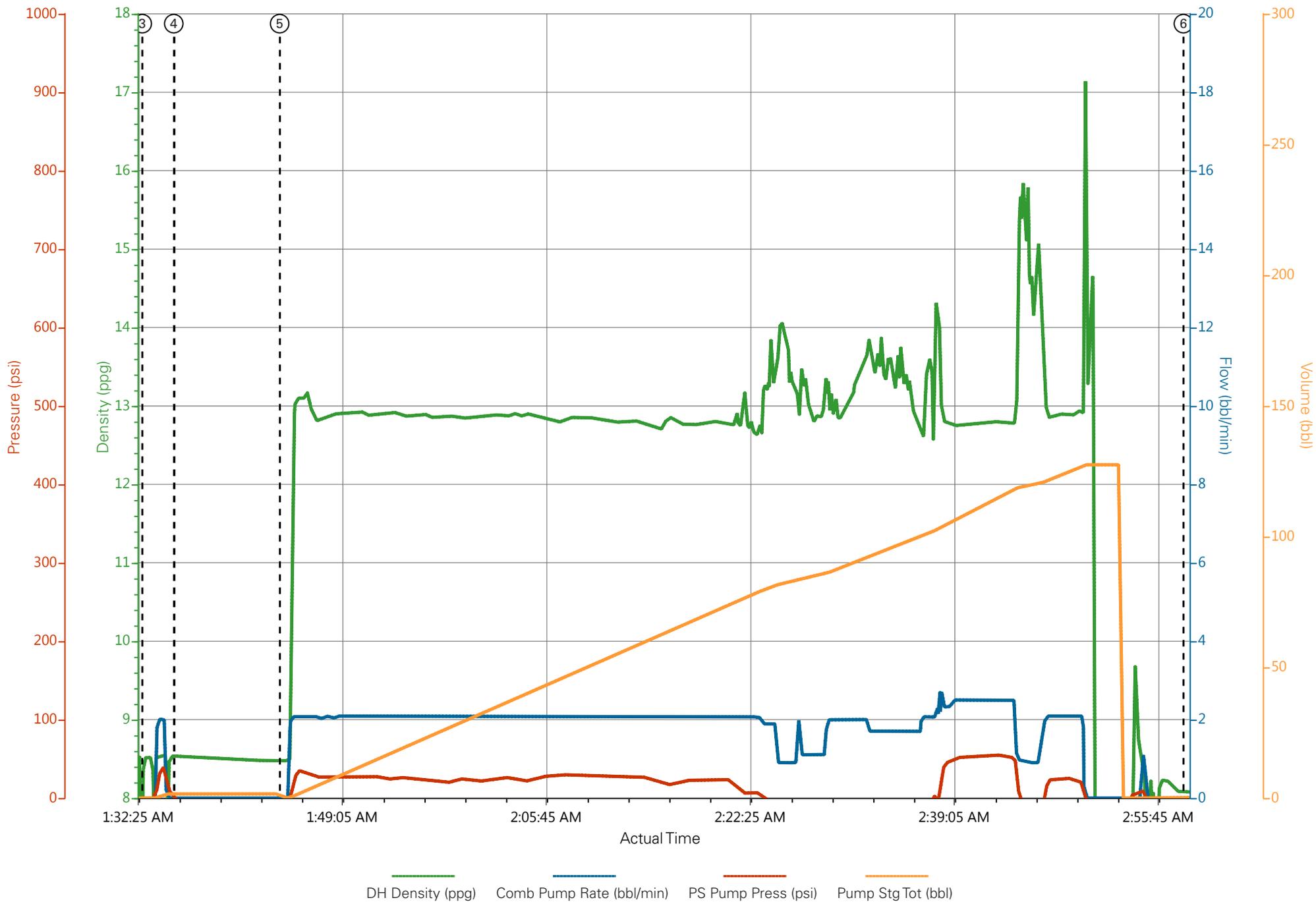
— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — PS Pump Press (psi)
 — Pump Stg Tot (bbl)

CAERUS- PUCKETT 41D-2 - 9 5/8 SURFACE



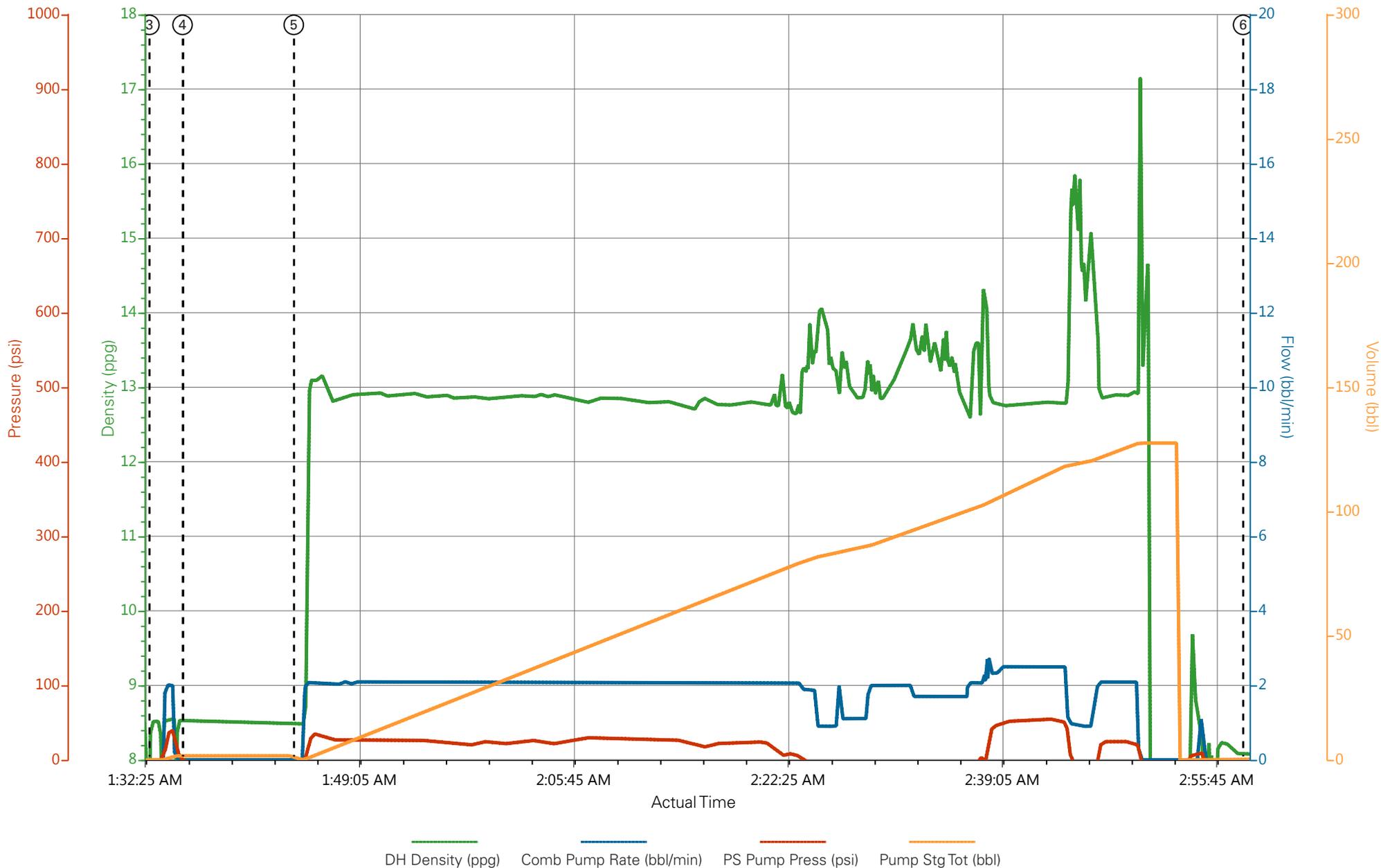
- | | | | | |
|---|--------------------------|----------------------|---------------------|--------------------------|
| ① Call Out | ⑥ Rig-Up Equipment | ⑪ Fresh Water Spacer | ⑯ Shutdown | 21 Check Floats |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Job Safety Meeting | ⑫ Super Flush 101 | ⑰ Drop Top Plug | 22 Clear Parasite Tubing |
| ③ Arrive At Loc | ⑧ Start Job | ⑬ Fresh Water Spacer | ⑱ Pump Displacement | 23 End Job |
| ④ Assessment Of Location Safety Meeting | ⑨ Prime Pumps | ⑭ Pump Lead Cement | ⑲ Slow Rate | |
| ⑤ Pre-Rig Up Safety Meeting | ⑩ Test Lines | ⑮ Pump Tail Cement | 20 Bump Plug | |

CAERUS - PUCKETT 41D-2 - TOPOUT #1



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

CAERUS - PUCKETT 41D-2 - TOPOUT #1



- ① Pre-Rig Up Safety Meeting ④ Prime Pumps ⑦ Pre-Rig Down Safety Meeting ⑩ Crew Leave Location
- ② Rig-Up Equipment ⑤ Pump Cement ⑧ Rig-Down Equipment
- ③ Start Job ⑥ End Job ⑨ Pre-Convoy Safety Meeting

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Created: 2015-05-19 21:45:51, Version: 4.1.107

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Customer: CAERUS OIL AND GAS LLC - EBUS
 Representative: WHITEY COTTMAN

Job Date: 5/20/2015 1:21:11 AM
 Sales Order #: 0902422572

Well: PUCKETT 41D-2
 ELITE # 4: DAVID CAMPBELL/ JUSTIN BROWN

Sales Order #: 0902422572	Line Item: 10	Survey Conducted Date: 5/20/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22623-00
Well Name: PUCKETT		Well Number: 0080702261
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	5/20/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

Sales Order #: 0902422572	Line Item: 10	Survey Conducted Date: 5/20/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22623-00
Well Name: PUCKETT		Well Number: 0080702261
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	5/20/2015
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	6
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Pumping Hours	4
Total number of hours pumping fluid on this job. Enter in decimal format.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Customer Non-Productive Rig Time (hrs)	0

Sales Order #: 0902422572	Line Item: 10	Survey Conducted Date: 5/20/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22623-00
Well Name: PUCKETT		Well Number: 0080702261
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	
Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Yes
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	90
Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	90
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	No
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0