

CAERUS OIL AND GAS LLC - EBUS

Puckett 41A-2A

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 06/07/2015

Job Date: 06/01/15

Submitted by: Aaron Katz - Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3624601	Quote #:	Sales Order #: 0902460990
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: GEORGE URBAN	
Well Name: PUCKETT		Well #: 41A-2	API/UWI #: 05-045-22625-00
Field: WILDCAT	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 2-7S-97W-2178FNL-648FEL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977		Srvc Supervisor: Steven Wardell	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2516ft Job Depth TVD
Water Depth	Wk Ht Above Floor 4 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			0	2516		0
Open Hole Section			14.75				0	2526		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625			2516	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625		HES
Float Collar	9.625				SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		HES

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	8.4			4.0	

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	20	bbl	10.0			4.0	

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/min	Total Mix Fluid Gal
3	Fresh Water	Fresh Water	10	bbl	8.4			1.0	
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
4	Lead Cement	VARICEM (TM) CEMENT	375	sack	11	3.65		8.0	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/min	Total Mix Fluid Gal
5	Tail Cement	VARICEM (TM) CEMENT	160	sack	12.8	2.18		8.0	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/min	Total Mix Fluid Gal
6	Displacement	Displacement	191.4	bbl	8.34			10.0	
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
7	ReverCem	REVERCEM (TM) CEMENT	300	sack	12.8	2.12		3.0	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/min	Total Mix Fluid Gal
8	Type 1/2	Type I-II Cement	40	sack	15.6	1.16		2.5	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	40 ft			Reason		Shoe Joint	
Mix Water:		pH ##	Mix Water Chloride: ## ppm			Mix Water Temperature: ## °F °C			
Cement Temperature: ## °F °C		Plug Displaced by: ## lb/gal kg/m3 XXXX			Disp. Temperature: ## °F °C				
Plug Bumped? Yes/No		Bump Pressure: ##### psi MPa			Floats Held? Yes/No				
Cement Returns: ## bbl m3		Returns Density: ## lb/gal kg/m3			Returns Temperature: ## °F °C				
Comment									

1.0 Real-Time Job Summary

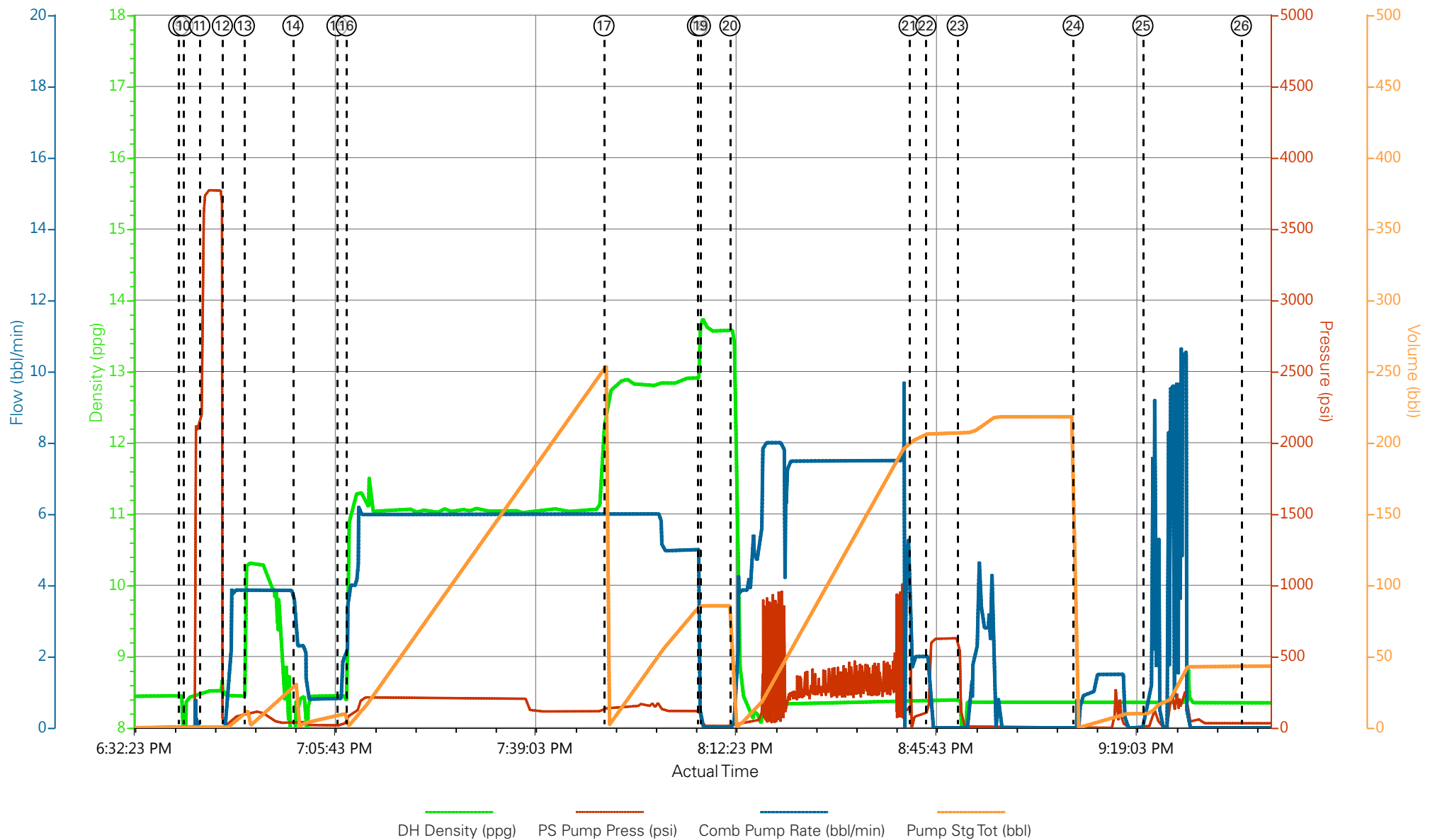
1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Downhole Density (ppg)	Pass-Side Pump Pressure (psi)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	Call Out	5/31/2015	09:30:00	USER					
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/31/2015	12:00:00	USER					WITH ALL HES PERSONNEL
Event	3	Crew Leave Yard	Crew Leave Yard	5/31/2015	12:15:00	USER					
Event	4	Arrive At Loc	Arrive At Loc	5/31/2015	15:00:00	USER					RIG WAS RUNNING CASING UPON HES ARRIVAL
Event	5	Other	Spot Equipment	5/31/2015	15:10:00	USER					1 PUMP, 2 BULK TRUCKS, 1 SUPER FLUSH TRUCK, 1 SILO
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/31/2015	15:20:00	USER					WITH ALL HES PERSONNEL
Event	7	Rig-Up Equipment	Rig-Up Equipment	5/31/2015	15:30:00	USER					
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/31/2015	18:10:00	USER					WITH ALL PERSONNEL
Event	9	Start Job	Start Job	5/31/2015	18:40:16	COM4					TD 2526 FT, TP 2516 FT, SJ 40 FT, CSG 9 5/8 IN 36#, OH 14 3/4 IN, MUD WT 8.75 PPG
Event	10	Prime Pumps	Prime Pumps	5/31/2015	18:41:00	USER	8.4	24.0	2.0	2.0	FRESH WATER
Event	11	Test Lines	Test Lines	5/31/2015	18:43:46	COM4					TESTED LINES TO 3774 PSI, PRESSURE HOLDING
Event	12	Pump Spacer 1	Fresh Water Spacer	5/31/2015	18:47:31	COM4	8.4	80.0	4.0	10.0	10 BBL FRESH WATER
Event	13	Pump Spacer 2	Super Flush Spacer	5/31/2015	18:51:10	COM4	10.0	115.0	4.0	20.0	20 BBL SUPER FLUSH
Event	14	Pump Spacer 1	Fresh Water Spacer	5/31/2015	18:59:15	COM4	8.4	36.0	1.0	10.0	10 BBL FRESH WATER
Event	15	Check Weight	Check weight	5/31/2015	19:06:35	COM4					PRESSURIZED MUD SCALES, SCALES SHOWING 11.0 PPG

Event	16	Pump Lead Cement	Pump Lead Cement	5/31/2015	19:08:07	COM4	11.0	200.0	8.0	243.8	375 SKS, 11.0 PPG, 3.65 FT3/SK, 23.08 GAL/SK, WITH 90 LBS TUFF FIBER.
Event	17	Pump Tail Cement	Pump Tail Cement	5/31/2015	19:51:00	COM4	12.8	150.0	8.0	62.1	160 SKS, 12.8 PPG, 2.18 FT3/SK, 12.11 GAL/SK.
Event	18	Shutdown	Shutdown	5/31/2015	20:06:33	USER					
Event	19	Drop Top Plug	Drop Top Plug	5/31/2015	20:07:02	USER					PLUG LAUNCHED
Event	20	Pump Displacement	Pump Displacement	5/31/2015	20:11:57	COM4	8.4	300.0	10.0	191.4	FRESH WATER
Event	21	Slow Rate	Slow Rate	5/31/2015	20:41:46	USER	8.4	100.0	2.0	181.4	SLOWED RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Event	22	Bump Plug	Bump Plug	5/31/2015	20:44:32	COM4		100.0			
Event	23	Check Floats	Check Floats	5/31/2015	20:49:46	USER		628.0			FLOATS HOLDING, HES RETURNED 1 BBL BACK TO PUMP
Event	24	Pump Spacer 1	Pump Sugar Water	5/31/2015	21:09:03	COM4	8.4	27.0	1.5	10.0	PUMPED 10 BBLS SUGAR WATER TO CLEAN PARASITE LINE PER COMPANY REP
Event	25	Clean Lines	Clean Lines	5/31/2015	21:20:38	USER					CLEANED PUMPS AND LINES TO CATCH TANK
Event	26	End Job	End Job	5/31/2015	21:37:01	USER					PIPE WAS STATIC THROUGHOUT JOB, HAD NO RETURNS DURING JOB, USED 10 LBS SUGAR.
Event	27	Start Job	Start Job	6/1/2015	00:45:00	USER					
Event	28	Pump Water	Pump Water	6/1/2015	00:47:00	USER	8.4	30.0	1.0	1.0	PUMP WATER AHEAD
Event	29	Pump Cement	Pump Annular Fill Cement	6/1/2015	00:48:22	COM4	12.8	150.0	3.0	113.3	300 SKS, 12.8 PPG, 2.12 FT3/SK, 11.15 GAL/SK, WITH 11 BBLS SUPER FLUSH
Event	30	Shutdown	Shutdown	6/1/2015	01:28:07	USER					SHUTDOWN TO PREPARE TOP OUT CEMENT

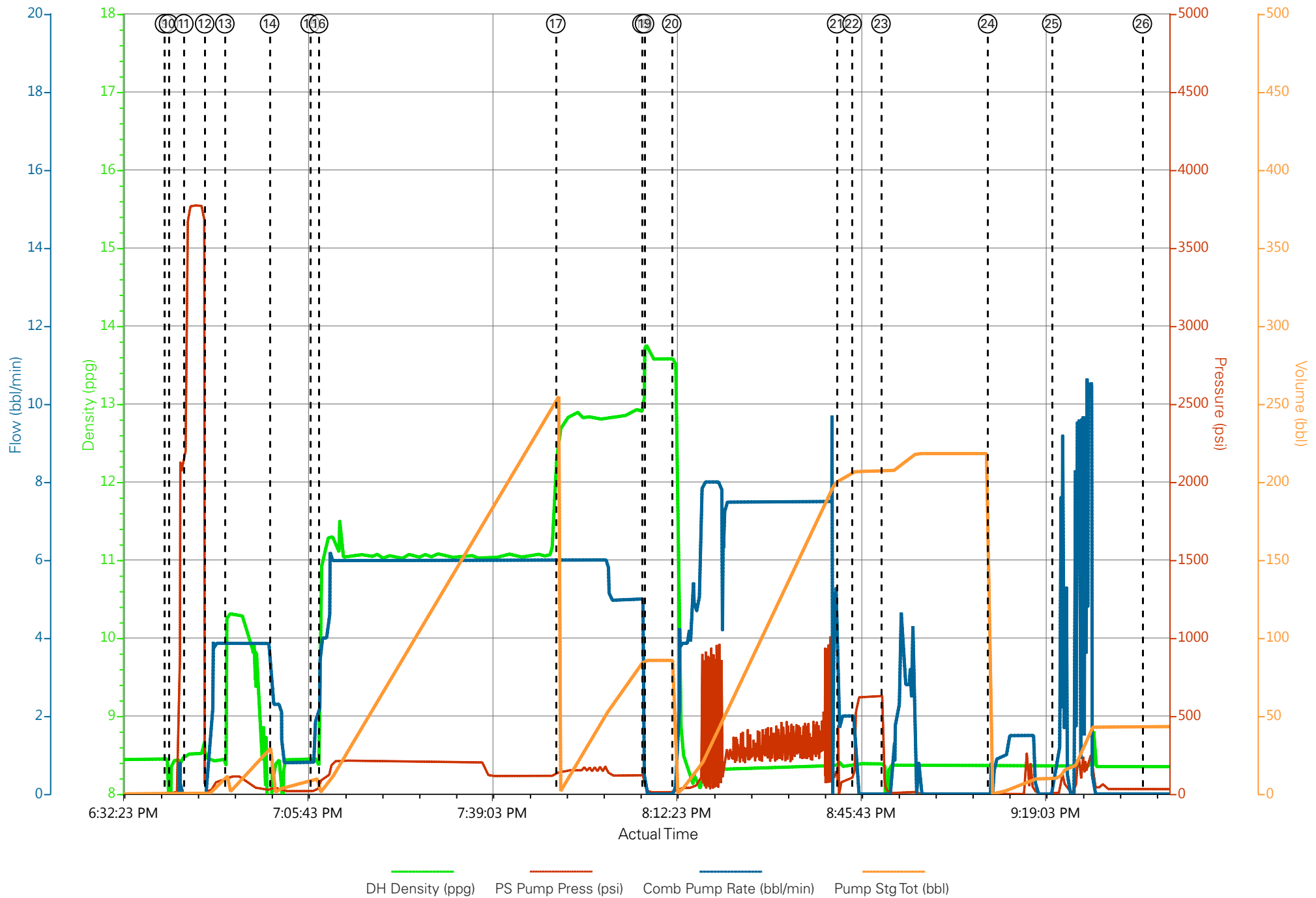
Event	31	Pump Cement	Pump Top Out	6/1/2015	01:40:53	COM4	15.8	185.0	2.5	8.3	40 SKS, 15.8 PPG, 1.16 FT3/SK, 5.02 GAL/SK, WITH 3 GALS CALCIUM CHLORIDE, WITH 3 BBLS SUPER FLUSH
Event	32	Pump Water	Pump Water	6/1/2015	01:47:48	USER	8.4	5.0	1.0	3.0	PUMP WATER BEHIND TO CLEAN LINES
Event	33	Shutdown	Shutdown	6/1/2015	01:57:58	USER					HES RETURNED 1 BBL CEMENT TO SURFACE, HES USED 50 LBS SUGAR
Event	34	End Job	End Job	6/1/2015	02:00:00	USER					HES CHARGED 3 ADD HOURS FOR JOB
Event	35	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	6/1/2015	02:15:00	USER					WITH ALL HES PERSONNEL
Event	36	Rig-Down Equipment	Rig-Down Equipment	6/1/2015	02:30:00	USER					
Event	37	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/1/2015	04:30:00	USER					WITH ALL HES PERSONNEL
Event	38	Crew Leave Location	Crew Leave Location	6/1/2015	04:40:00	USER					
Event	39	Comment	Comment	6/1/2015	04:45:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT DEPARTMENT, STEVEN WARDELL AND CREW

CAERUS PUCKETT 41-2A 902460990 SURFACE

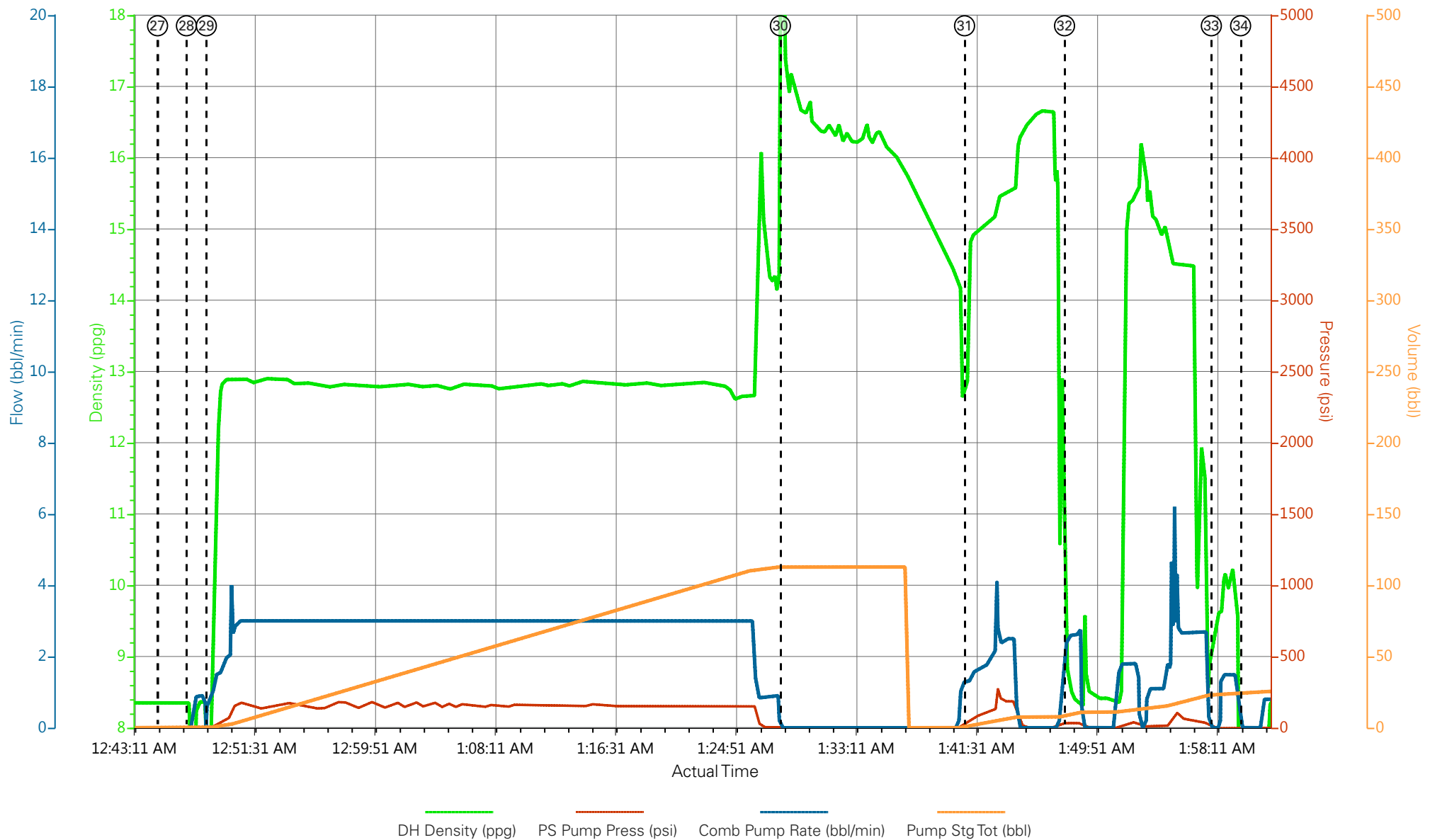


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|-----------------------------|-----------------------------|----------------------|----------------------|---------------------|--------------------|---------------|------------------------|
| ① Call Out | ⑤ Spot Equipment | ⑨ Start Job | ⑬ Super Flush Spacer | ⑰ Pump Tail Cement | ㉑ Slow Rate | ㉕ Clean Lines | ㉙ Pump Annular Fill Ce |
| ② Pre-Convoy Safety Meeting | ⑥ Pre-Rig Up Safety Meeting | ⑩ Prime Pumps | ⑭ Fresh Water Spacer | ⑱ Shutdown | ㉒ Bump Plug | ㉖ End Job | ㉚ Shutdown |
| ③ Crew Leave Yard | ⑦ Rig-Up Equipment | ⑪ Test Lines | ⑮ Check weight | ⑲ Drop Top Plug | ㉓ Check Floats | ㉗ Start Job | ㉛ Pump Top Out |
| ④ Arrive At Loc | ⑧ Pre-Job Safety Meeting | ⑫ Fresh Water Spacer | ⑯ Pump Lead Cement | ㉔ Pump Displacement | ㉔ Pump Sugar Water | ㉘ Pump Water | ㉜ Pump Water |

CAERUS PUCKETT 41-2A 902460990 SURFACE

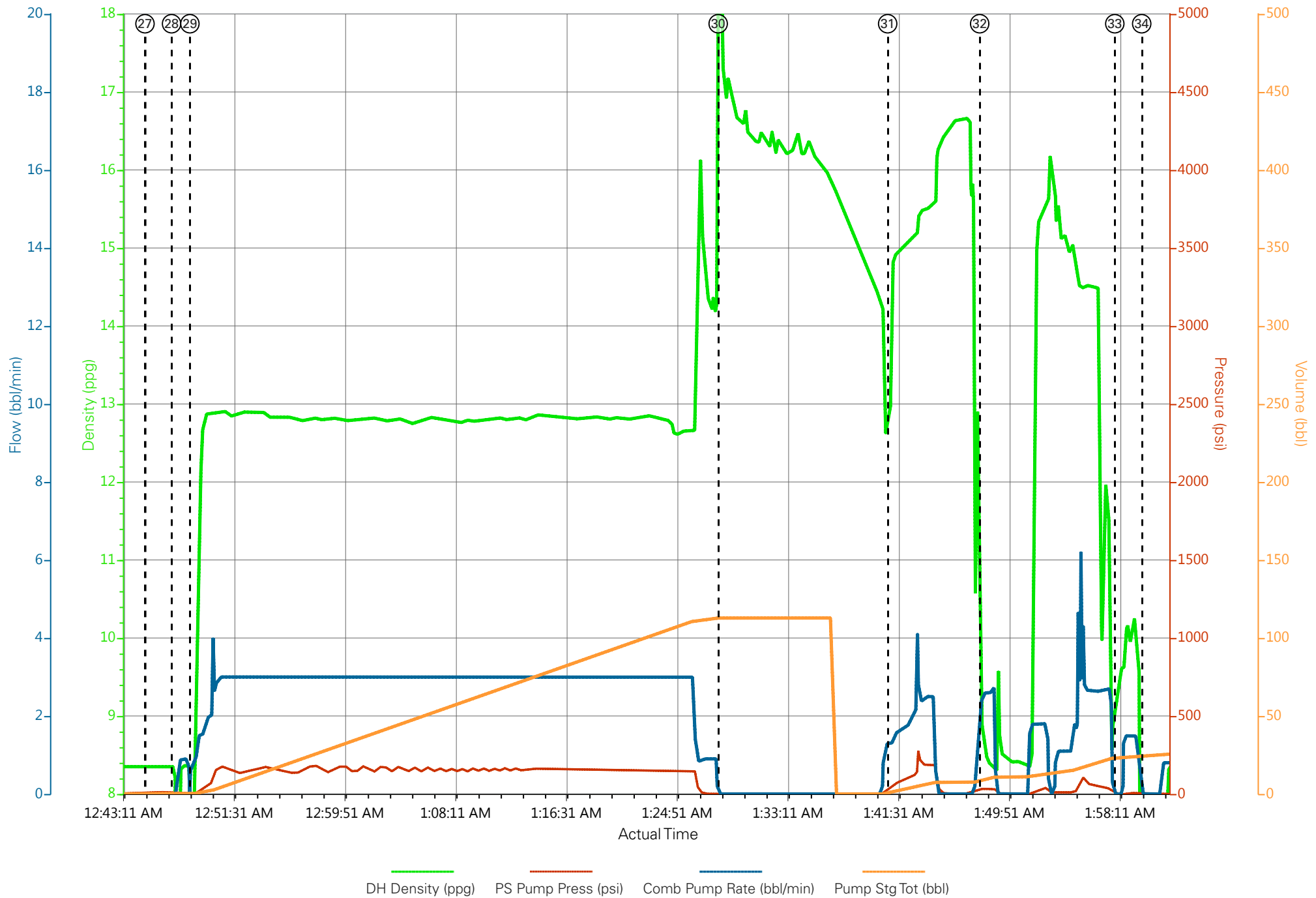


CAERUS PUCKETT 41-2A 902460990 SURFACE



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|-----------------------------|-----------------------------|----------------------|----------------------|----------------------|---------------------|----------------|-------------------------|
| ① Call Out | ⑤ Spot Equipment | ⑨ Start Job | ⑬ Super Flush Spacer | ⑰ Pump Tail Cement | 21 Slow Rate | 25 Clean Lines | 29 Pump Annular Fill Ce |
| ② Pre-Convoy Safety Meeting | ⑥ Pre-Rig Up Safety Meeting | ⑩ Prime Pumps | ⑭ Fresh Water Spacer | ⑱ Shutdown | 22 Bump Plug | 26 End Job | 30 Shutdown |
| ③ Crew Leave Yard | ⑦ Rig-Up Equipment | ⑪ Test Lines | ⑮ Check weight | ⑲ Drop Top Plug | 23 Check Floats | 27 Start Job | 31 Pump Top Out |
| ④ Arrive At Loc | ⑧ Pre-Job Safety Meeting | ⑫ Fresh Water Spacer | ⑯ Pump Lead Cement | 20 Pump Displacement | 24 Pump Sugar Water | 28 Pump Water | 32 Pump Water |

CAERUS PUCKETT 41-2A 902460990 SURFACE



Sales Order #: 0902460990	Line Item: 10	Survey Conducted Date: 6/1/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22625-00
Well Name: PUCKETT		Well Number: 0080702221
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	6/1/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	H127209
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 #: 0902460990	Line Item: 10	Survey Conducted Date: 6/1/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22625-00
Well Name: PUCKETT		Well Number: 0080702221
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	6/1/2015

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	7
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	5
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	6
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Customer Non-Productive Rig Time (hrs)	0

Sales Order #: 0902460990	Line Item: 10	Survey Conducted Date: 6/1/2015
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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22625-00
Well Name: PUCKETT		Well Number: 0080702221
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	94
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	95
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