

Caerus Oil and Gas LLC - EBUS

Puckett 42A-2

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 5/24/2015

Job Date: 5/7/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3623426	Quote #:	Sales Order #: 0902387636
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: WHITEY	
Well Name: PUCKETT		Well #: 42A-2	API/UWI #: 05-045-22632-00
Field: WILDCAT	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 2-7S-97W-2190FNL-654FEL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977		Srvc Supervisor: Eric Carter	

Job

Formation Name	
Formation Depth (MD)	Top 127 FT. Bottom 2510 FT.
Form Type	BHST
Job depth MD	2472 FT. 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		20	19.124	94			0	127	0	0
Casing		9.625	8.921	36		J-55	0	2472	0	0
Open Hole Section			14.75				127	2510	0	0

Tools and Accessories

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

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	5	bbl	8.34			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	

2	Super Flush 101	Super Flush 101	20	bbl	10			3	
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	8.34			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
4	VariCem GJ5	VARICEM (TM) CEMENT	485	sack	11	3.65	23.08	8	
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	VariCem GJ5	VARICEM (TM) CEMENT	155	sack	12.8	2.18	12.11	8	
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	187.7	bbl	8.34			9	
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	12.8lb Annular Fill	REVERCEM (TM) CEMENT	250	sack	12.8	2.12	11.15	2	
11.15 Gal		FRESH WATER							
SUPER FLUSH 101 POURED DOWN ANNULUS DURING THE LAST 100 SKS REVERCEM									
Cement Left In Pipe		Amount	43 ft		Reason		Shoe Joint		
Comment									

1.0 Real-Time Job Summary

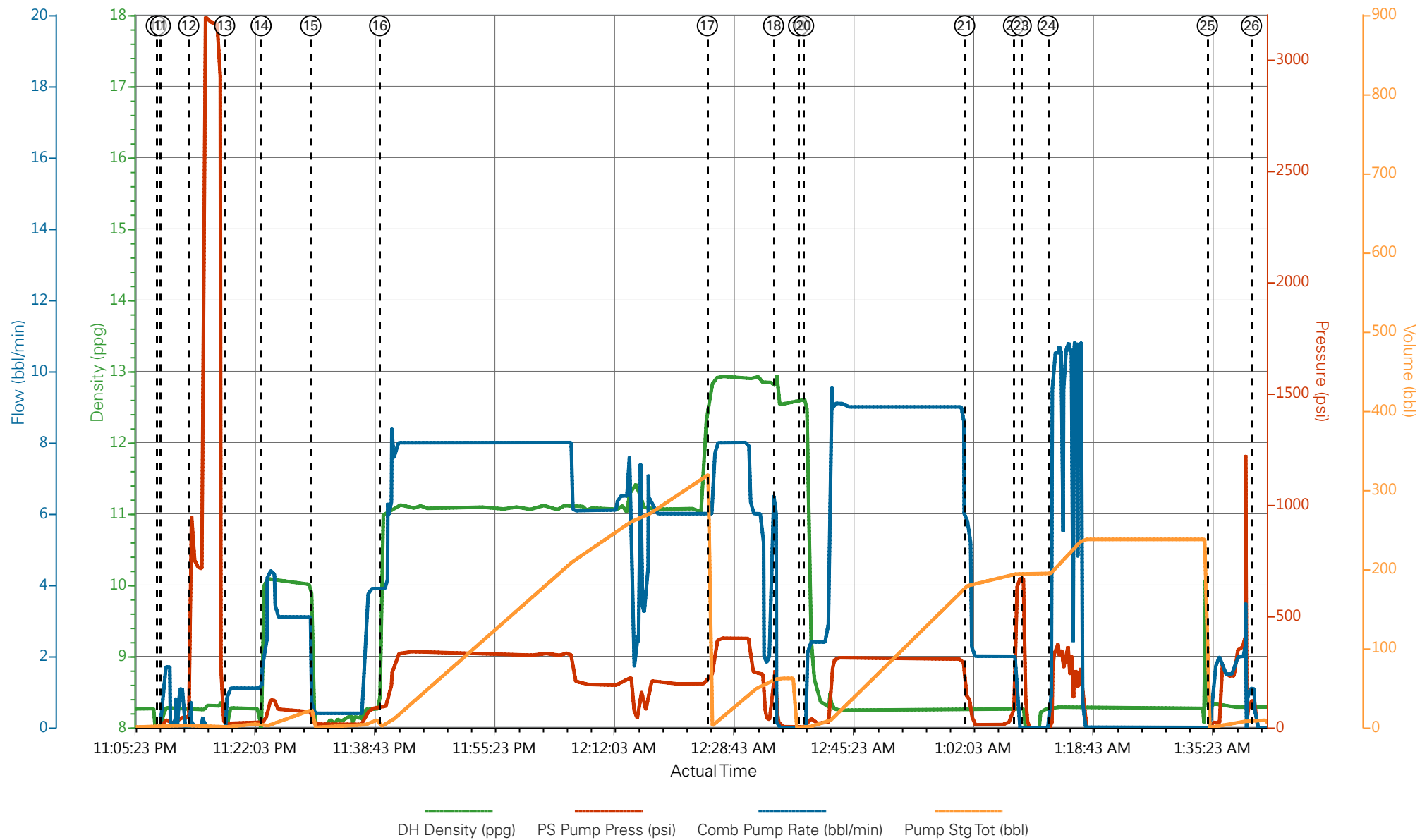
1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Mix Water Total (bbl)	Comments
Event	1	Call Out	5/6/2015	14:30:00	USER						
Event	2	Depart Yard Safety Meeting	5/6/2015	17:50:00	USER						ATTENDED BY ALL HES CREW
Event	3	Crew Leave Yard	5/6/2015	18:00:00	USER						
Event	4	Arrive At Loc	5/6/2015	21:00:00	USER						RIG READY
Event	5	Assessment Of Location Safety Meeting	5/6/2015	21:10	USER						ATTENDED BY ALL HES CREW
Event	6	Other	5/6/2015	21:20	USER						SPOT EQUIPMENT
Event	7	Pre-Rig Up Safety Meeting	5/6/2015	21:30	USER						ATTENDED BY ALL HES CREW
Event	8	Rig-Up Equipment	5/6/2015	21:40	USER						
Event	9	Pre-Job Safety Meeting	5/6/2015	22:30	USER						ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Event	10	Other	5/6/2015	23:08:44	USER						TP 2472', TD 2510', MW N/A, CASING 9.625", 36#, J-55, SJ 43.4', HOLE 14.75", CONDUCTOR CASING 20", 94# SET AT 127', 5 CEMENT BASKETS PLACED IN 500' INTRAVELS, RIG DID NOT HAVE CIRCULATION PRIOR TO JOB
Event	11	Other	5/6/2015	23:09:19	USER	8.34	35	2	2		FRESH WATER

Event	12	Test Lines	5/6/2015	23:13:15	USER					PRESSURED UP TO 3200 PSI, PRESSURE HELD
Event	13	Pump Spacer 1	5/6/2015	23:18:15	USER	8.34	25	1	5	FRESH WATER
Event	14	Pump Spacer 2	5/6/2015	23:23:20	USER	10	120	3	20	SUPER FLUSH 101
Event	15	Pump Spacer 1	5/6/2015	23:30:14	USER	8.34	4	90	10	FRESH WATER
Event	16	Pump Lead Cement	5/6/2015	23:39:50	USER	11	340	8	315.3	485 SKS VARICEM MIXED AT 11 PPG, 3.65 YIELD, 23.08 GL/SK, 105 LBS TUFFIBER MIXED ON THE FLY
Event	17	Pump Tail Cement	5/7/2015	00:25:27	USER	12.8	400	8	60.2	155 SKS VARICEM MIXED AT 12.8 PPG, 2.18 YIELD, 12.11 GL/SK
Event	18	Shutdown	5/7/2015	00:34:41	USER					
Event	19	Drop Top Plug	5/7/2015	00:38:10	USER					PLUG LAUNCHED
Event	20	Pump Displacement	5/7/2015	00:38:52	USER	8.34	310	9	177.7	FRESH WATER
Event	21	Slow Rate	5/7/2015	01:01:17	USER	8.34	80	2	10	
Event	22	Bump Plug	5/7/2015	01:08:05	USER		690			PLUG LANDED
Event	23	Check Floats	5/7/2015	01:09:09	USER					FLOATS HELD, NO CIRCULATION THROUGHOUT JOB, PIPE NOT MOVED DURING JOB
Event	24	Clean Lines	5/7/2015	01:12:53	USER					
Event	25	Pump Water	5/7/2015	01:35:04	USER					50 LBS OF SUGAR ADDED, PUMPED THROUGH PARASITE LINE
Event	26	Shutdown	5/7/2015	01:41:13	USER					HES RIGGED UP TO PUMP DOWN ANNULUS
Event	27	Pump Tail Cement	5/7/2015	06:46:23	USER	12.8	45	2	56.6	150 SKS REVERCEM MIXED AT 12.8 PPG, 2.12 YIELD, 11.15

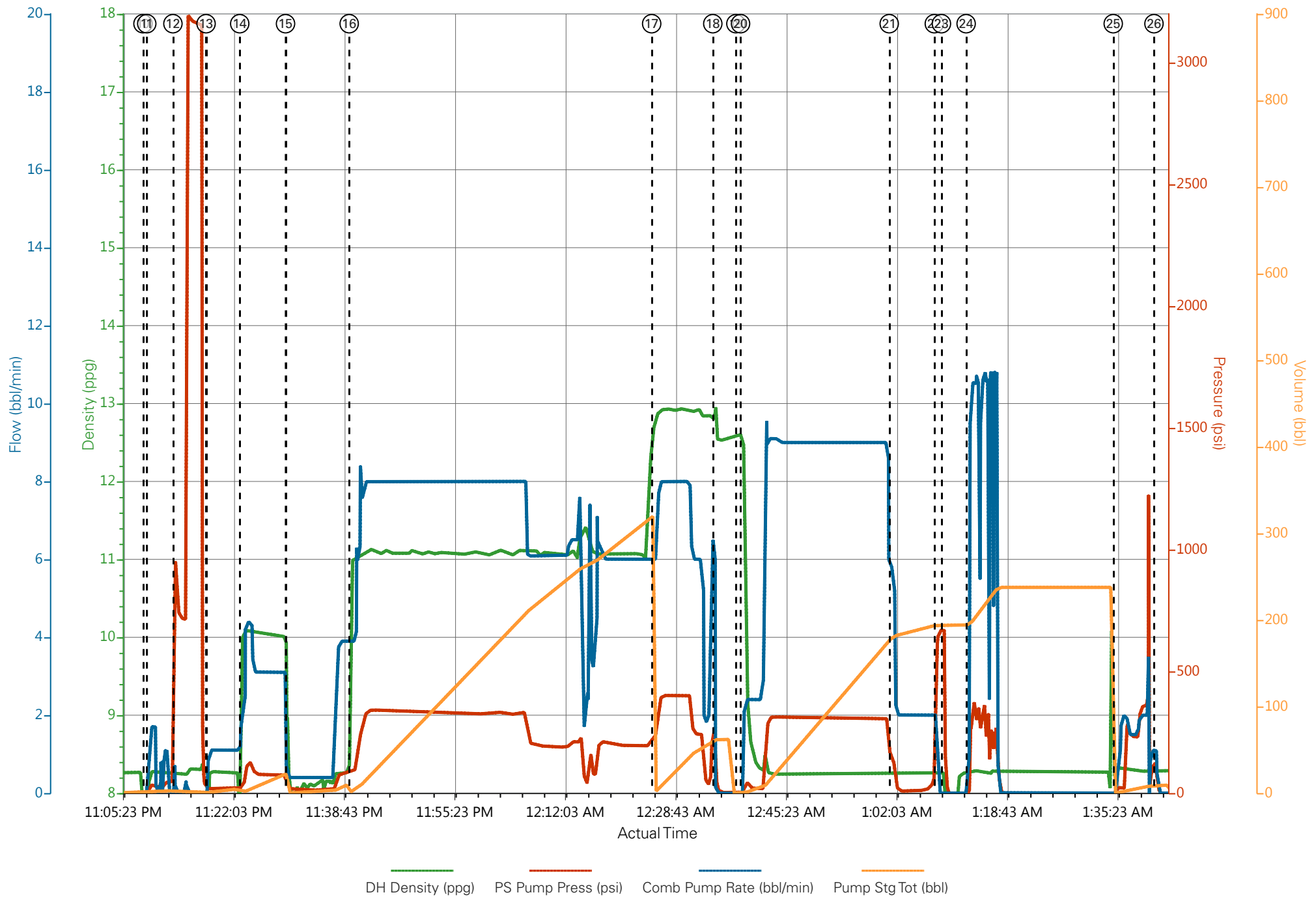
Event	28	Shutdown	5/7/2015	07:18:50	USER						
Event	29	Pump Tail Cement	5/7/2015	07:23:27	USER	12.8	35	2	37.8	100 SKS REVERCEM MIXED AT 12.8 PPG, 2.12 YIELD, 11.15 GL/SK, 6 BBLS SUPERFLUSH 101 WAS POURED DOWN ANNULUS DURING CEMENT	
Event	30	Pump Water	5/7/2015	07:40:02	USER					PUMP WATER TO CLEAR PUMPS AND LINES	
Event	31	Shutdown	5/7/2015	07:43:06	USER						
Event	32	End Job	5/7/2015	07:43:33	USER					1 BBLCEMENT TO SURFACE	
Event	33	Post-Job Safety Meeting (Pre Rig-Down)	5/7/2015	07:45	USER					ATTENDED BY ALL HES CREW	
Event	34	Rig-Down Equipment	5/7/2015	07:50	USER						
Event	35	Depart Location Safety Meeting	5/7/2015	09:20	USER					ATTENDED BY ALL HES CREW	
Event	36	Crew Leave Location	5/7/2015	09:30	USER					THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.	

CAERUS - PUCKETT 42-A2 - SURFACE

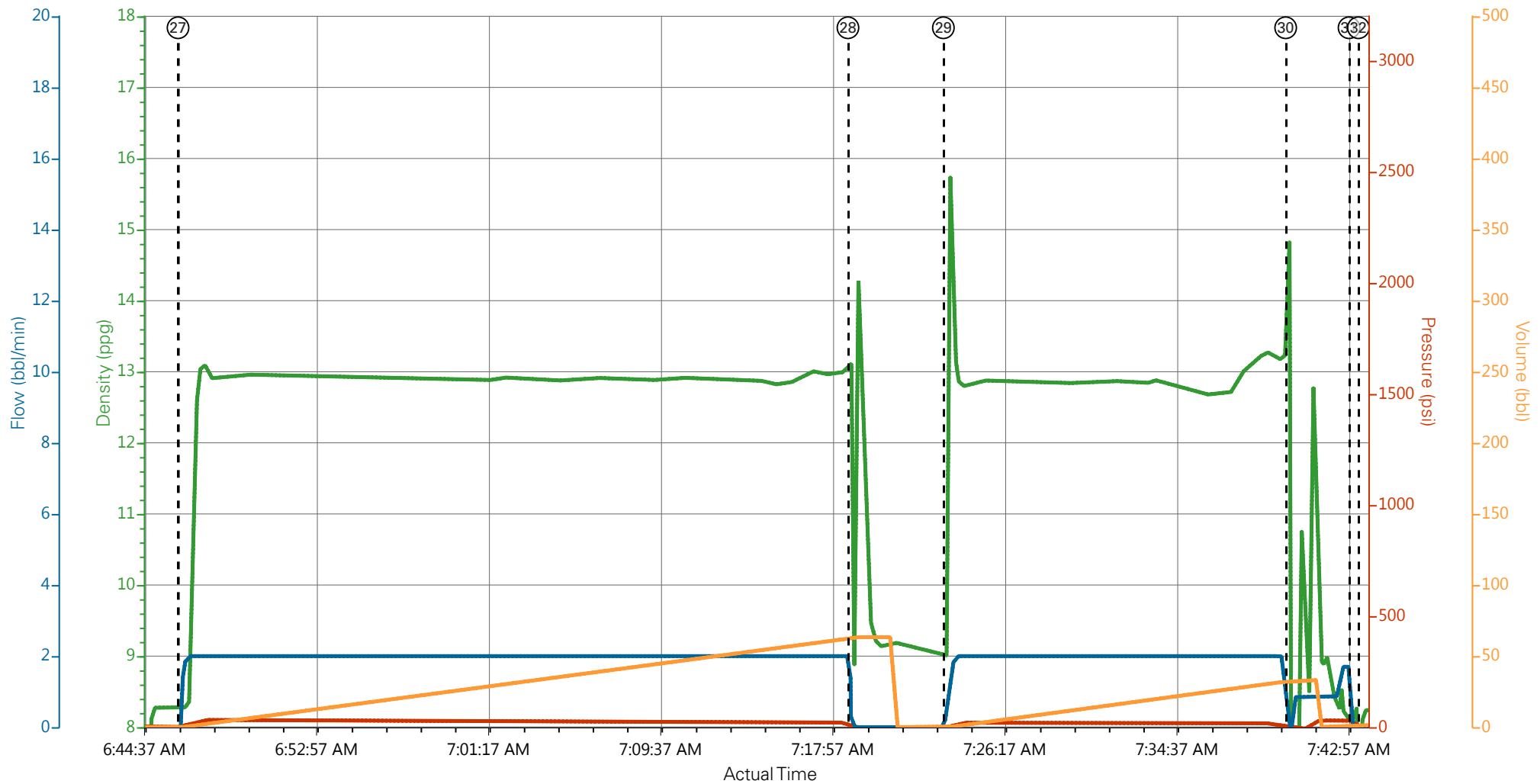


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|--|---|--|-------------------------------------|-----------------|
| ① Call Out n/a;n/a;n/a;n/a | ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑨ Pre-Job Safety Meeting n/a;n/a;n/a;n/a | ⑬ Pump Spacer 1 8.2;19;1.1;0.2 | ⑰ Pump Tail Cen |
| ② Depart Yard Safety Meeting n/a;n/a;n/a;n/a | ⑥ Other n/a;n/a;n/a;n/a | ⑩ Start Job 0.12;-2;0;0 | ⑭ Pump Spacer 2 10.07;34;2.2;0.9 | ⑱ Shutdown 12.1 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑦ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑪ Fill Lines 8.28;32;1.7;0.4 | ⑮ Pump Spacer 1 8.23;20;0.4;0.1 | ⑲ Drop Top Plug |
| ④ Arrive At Loc n/a;n/a;n/a;n/a | ⑧ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑫ Test Lines 8.26;895;0;2.6 | ⑯ Pump Lead Cement 10.99;92;3.9;2.5 | ⑳ Pump Displac |

CAERUS - PUCKETT 42-A2 - SURFACE



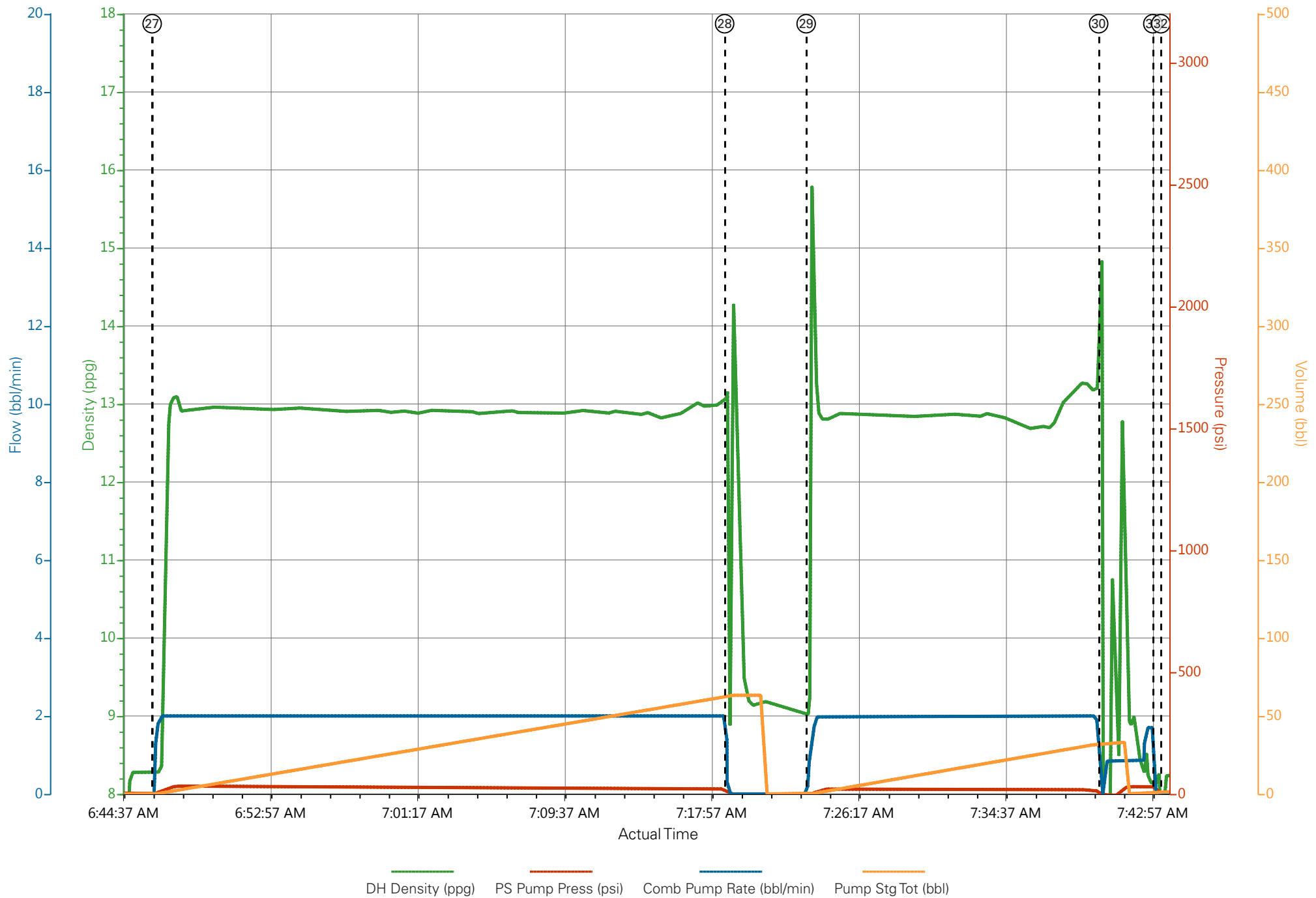
CAERUS - PUCKETT 42-A2 - SURFACE



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

① Call Out n/a;n/a;n/a;n/a	⑦ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑬ Pump Spacer 1 8.15;18;1.1;0.2	⑲ Drop Top Plug 12.6;2;0;0	25 Pump Water 8.31;907;0;2.6
② Depart Yard Safety Meeting n/a;n/a;n/a;n/a	⑧ Rig-Up Equipment n/a;n/a;n/a;n/a	⑭ Pump Spacer 2 10.06;33;2.2;0.9	20 Pump Displacement 12.34;7;1.6;0.1	26 Shutdown 8.28;907;0;2.6
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑨ Pre-Job Safety Meeting n/a;n/a;n/a;n/a	⑮ Pump Spacer 1 8.29;20;0.4;0.1	21 Slow Rate 8.26;131;5.8;179.5	27 Pump Tail Cement 12.76;237;6;1
④ Arrive At Loc n/a;n/a;n/a;n/a	⑩ Start Job 0.13;-2;0;0	⑯ Pump Lead Cement 10.99;92;3.9;2.4	22 Bump Plug 8.27;620;0;194.2	28 Shutdown 13.06;93;0;62
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑪ Fill Lines 8.28;32;1.7;0.3	⑰ Pump Tail Cement 12.76;237;6;1	23 Check Floats 8.26;520;0;194.2	29 Pump Tail Cement 12.76;237;6;1
⑥ Other n/a;n/a;n/a;n/a	⑫ Test Lines 8.26;907;0;2.6	⑱ Shutdown 12.91;93;0;62	24 Clean Lines 8.26;10;1;194.3	30 Pump Water 14.85;907;0;2.6

CAERUS - PUCKETT 42-A2 - SURFACE



HALLIBURTON

Water Analysis Report

Company: CAERUS
Submitted by: ERIC CARTER
Attention: J.Trout
Lease: H+P 330
Well #: PUCKETT 42-A2

Date: 5/24/2015
Date Rec.: 5/24/2015
S.O.#: 902387636
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>1000</i> Mg / L
Hardness	<i>500</i>	<i>250</i> Mg / L
Iron (FE2)	<i>300</i>	<i>10</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>500</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Temp	<i>40-80</i>	<i>60</i> Deg
Total Dissolved Solids		<i>OR</i> Mg / L

Respectfully: ERIC CARTER

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its

Sales Order #: 0902387636	Line Item: 10	Survey Conducted Date: 5/7/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22632-00
Well Name: PUCKETT		Well Number: 0080702249
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	5/7/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX15491
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 #: 0902387636	Line Item: 10	Survey Conducted Date: 5/7/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22632-00
Well Name: PUCKETT		Well Number: 0080702249
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	5/7/2015
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	3
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	5
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 #: 0902387636	Line Item: 10	Survey Conducted Date: 5/7/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22632-00
Well Name: PUCKETT		Well Number: 0080702249
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	98
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	98
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