

CAERUS OIL AND GAS LLC-EBUS

PUCKETT 12A-1

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 06/19/2015

Job Date: 06/14/2015

Submitted by: Jenna Cook – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3624587	Quote #:	Sales Order #: 0902493416
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep:	
Well Name: PUCKETT	Well #: 12A-1	API/UWI #: 05-045-22634-00	
Field: WILDCAT	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 2-7S-97W-2193FNL-642FEL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977		Srvc Supervisor:	

Job

NO RETURNS THROUGHOUT JOB GOT WELL TOPPED OUT WITH 300 SKS REVERCEM

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	2524ft	Job Depth TVD	2524ft
Water Depth		Wk Ht Above Floor	3ft
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	2524	0	2524
Open Hole Section			14.75				0	2530	0	2530

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		2524	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625		
Float Collar	9.625	1		2478	SSR plug set	9.625		
Insert Float	9.625				Plug Container	9.625		
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 ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	10	bbl	8.34					
Stage/Plug #: 2										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Super Flush 101	Super Flush 101	20	bbl	9.17					

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				
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	23.08	5	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	12.11	5	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	191.6	bbl	8.34				
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	300	sack	12.8	2.12	11.15	5	11.15
11.15 Gal		FRESH WATER							
Cement Left In Pipe	Amount	46 ft			Reason			Shoe Joint	

2.0 Real-Time Job Summary

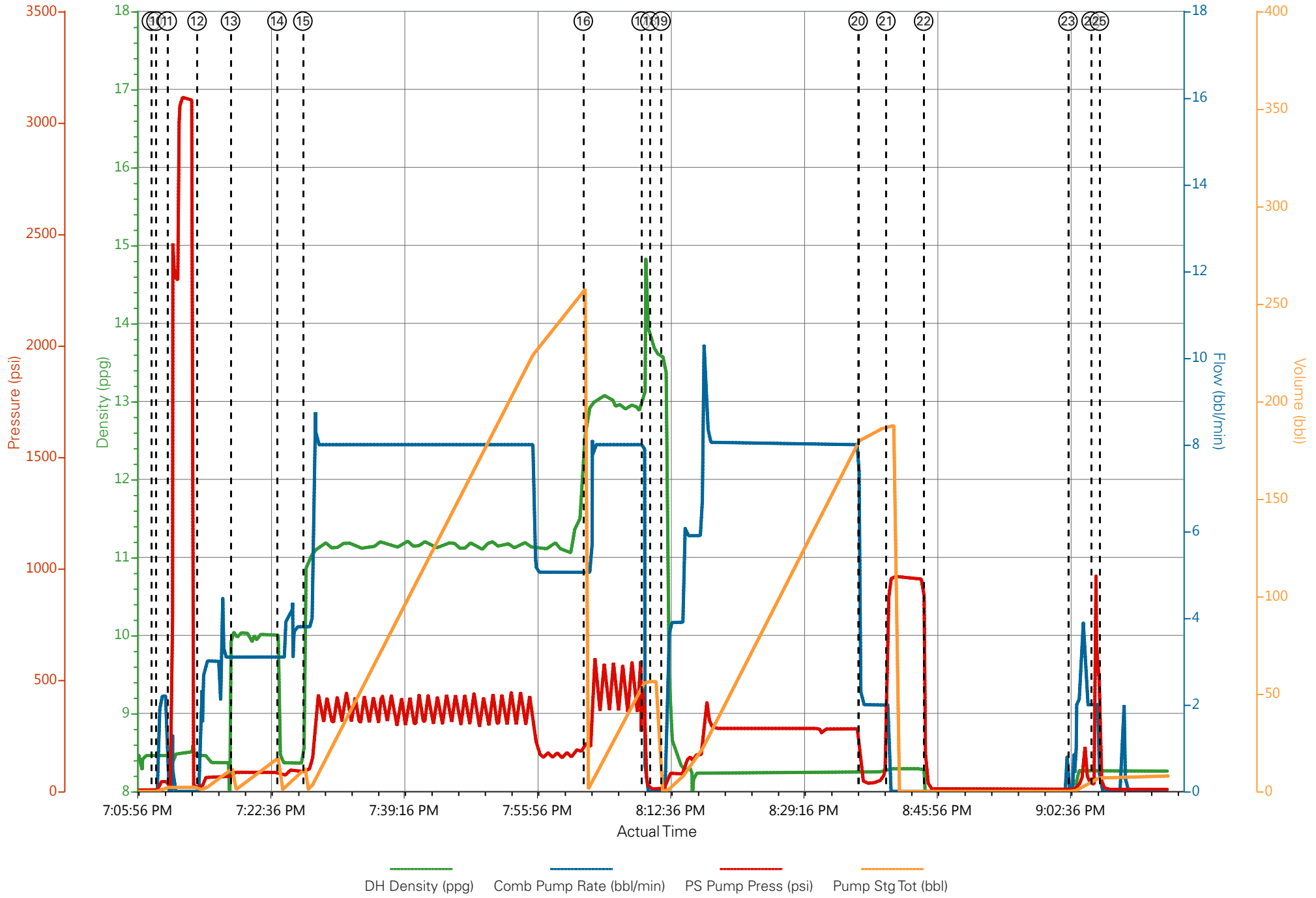
2.1 Job Event Log

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	6/13/2015	11:00:00	USER					ON LOCATION TIME 1700
Event	2	Pre-Convoy Safety Meeting	6/13/2015	12:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	6/13/2015	13:00:00	USER					1 550 PU, 1 ELITE PUMP, 2 660 BULK TRUCKS. ALL TRUCKS LEFT TOGETHER
Event	4	Arrive At Loc	6/13/2015	15:00:00	USER					ARRIVED 2 HOURS EARLY. CASING CREW STILL RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	6/13/2015	15:15:00	USER					MET WITH CO REP. AND DID A WALK AROUND OF LOCATION. GOT WATER SAMPLEPRE-G
Event	6	Pre-Rig Up Safety Meeting	6/13/2015	15:45:00	USER					ALL HES PRESENT
Event	7	Rig-Up Equipment	6/13/2015	16:00:00	USER					RIGGED UP WHAT WE COULD WHILE STAYING OUT OF THE RED ZONE
Event	8	Pre-Job Safety Meeting	6/13/2015	18:45:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	6/13/2015	19:07:59	COM5					TD 2530' TP 2524', SJ 45.81', CS 9.625" 35# J55 MW 9, HOLW 12.75"
Event	10	Prime Pumps	6/13/2015	19:08:34	COM5	8.34	2	34	2	2 BBLS 2BBLS/MIN FRESH WATER
Event	11	Test Lines	6/13/2015	19:09:58	COM5	8.34	0.00	3119	2.1	TESTED TO 3119 PSI

Event	12	Pump Spacer 1	6/13/2015	19:13:42	COM5	8.35	3	75	10	10 BBLs FRESH WATER
Event	13	Pump Spacer 2	6/13/2015	19:17:53	COM5	9.2	3	75	20	20 BBLs SUPER FLUSH
Event	14	Pump Lead Cement	6/13/2015	19:20:40	COM5	11	8	288	244	375 SKS (244 BBLs) 11 PPG 3.65 FT3/SK, 23.08 GAL/SK
Event	15	Pump Spacer 1	6/13/2015	19:23:42	COM5	8.34	3	75	10	10 BBLs FRESH WATER
Event	16	Pump Tail Cement	6/13/2015	20:02:00	COM5	12.8	8	400	62	160 SKS (62 BBLs) 12.8 PPG 2.18 FT3/SK, 12.11 GAL/SK
Event	17	Shutdown	6/13/2015	20:09:14	USER					
Event	18	Drop Plug	6/13/2015	20:10:20	USER					PLUG WENT
Event	19	Pump Displacement	6/13/2015	20:11:43	COM5	8.34	8	273	191.6	191.6 BBLs FRESH WATER
Event	20	Slow Rate	6/13/2015	20:36:22	USER	8.34	2	35	181	TO 2 BBLs MIN
Event	21	Bump Plug	6/13/2015	20:39:50	COM5	8.34	0.00	850	191.6	BUMPED AT 35 PSI WENT UP TO 850 PSI
Event	22	Check Floats	6/13/2015	20:44:34	USER					FLOATS HELD. 1.5 BBLs BACK
Event	23	Other	6/13/2015	21:02:37	COM5	8.34	2	30	10	PUMPED 10 BBLs SUGAR WATER DOWN PARASITE
Event	24	Other	6/13/2015	21:05:30	USER	8.34	2	1000	10	PARASITE CLEARED PRESSURED UP TO 1000 PSI AND FELL BACK
Event	25	End Job	6/13/2015	21:06:32	USER					NO RETURNS THROUGHOUT JOB SET UP FOR TOP OUT
Event	26	Start Job	6/14/2015	03:51:01	USER					**TOPOUT**
Event	27	Pump Spacer 1	6/14/2015	03:52:28	COM5	8.34	1	10	1	1 BBL FRESH WATER TO PRIME LINE
Event	28	Pump Cement	6/14/2015	03:54:13	COM5	12.8	3	100	113	100 SKS (113 BBLs) 12.8 PPG 2.18 FT3/SK 12.11 GAL/SK
Event	29	Cement Returns to	6/14/2015	04:34:28	USER					300 SKS TO GET CEMENT TO

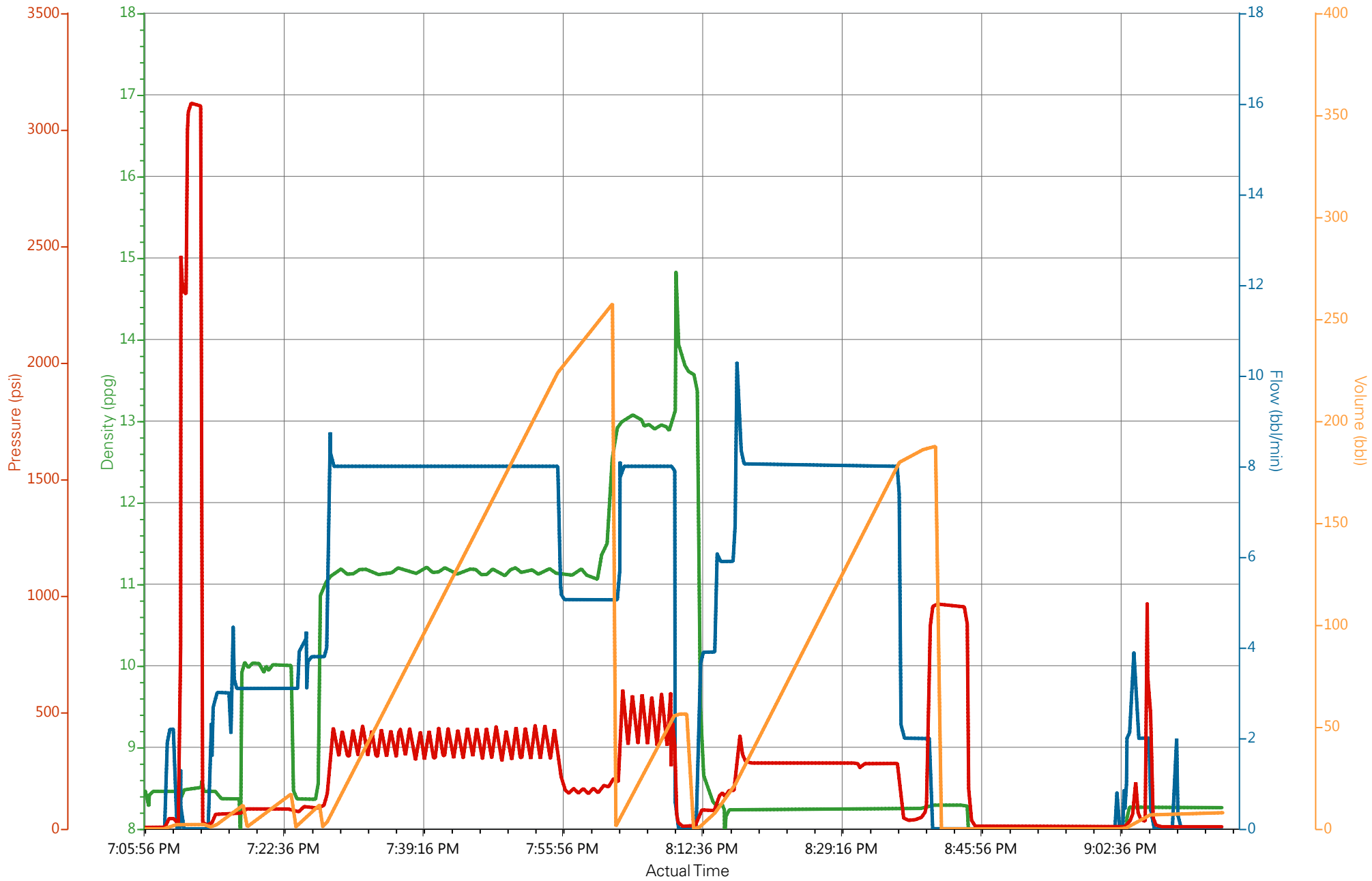
Surface										SURFACE (113 BBLS)
Event	30	Other	6/14/2015	04:35:22	USER	8.34	2.00	29.00	2	2 BBLS WATER BEHIND TO CLEAN LINES
Event	31	End Job	6/14/2015	04:36:36	USER					CEMENT TO SURFACE RIGHT WHEN BULK TRUCK WENT DRY (300 SKS)
Event	32	Pre-Rig Down Safety Meeting	6/14/2015	04:40:00	USER					ALL HES PRESENT
Event	33	Rig Down Lines	6/14/2015	05:00:00	USER					
Event	34	Pre-Convoy Safety Meeting	6/14/2015	06:15:00	USER					ALL HES PRESENT
Event	35	Crew Leave Location	6/14/2015	06:30:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT. CLIFF SPARKS AND CREW

CAERUS PUCKETT 12A-1 9.625" SURFACE CASING



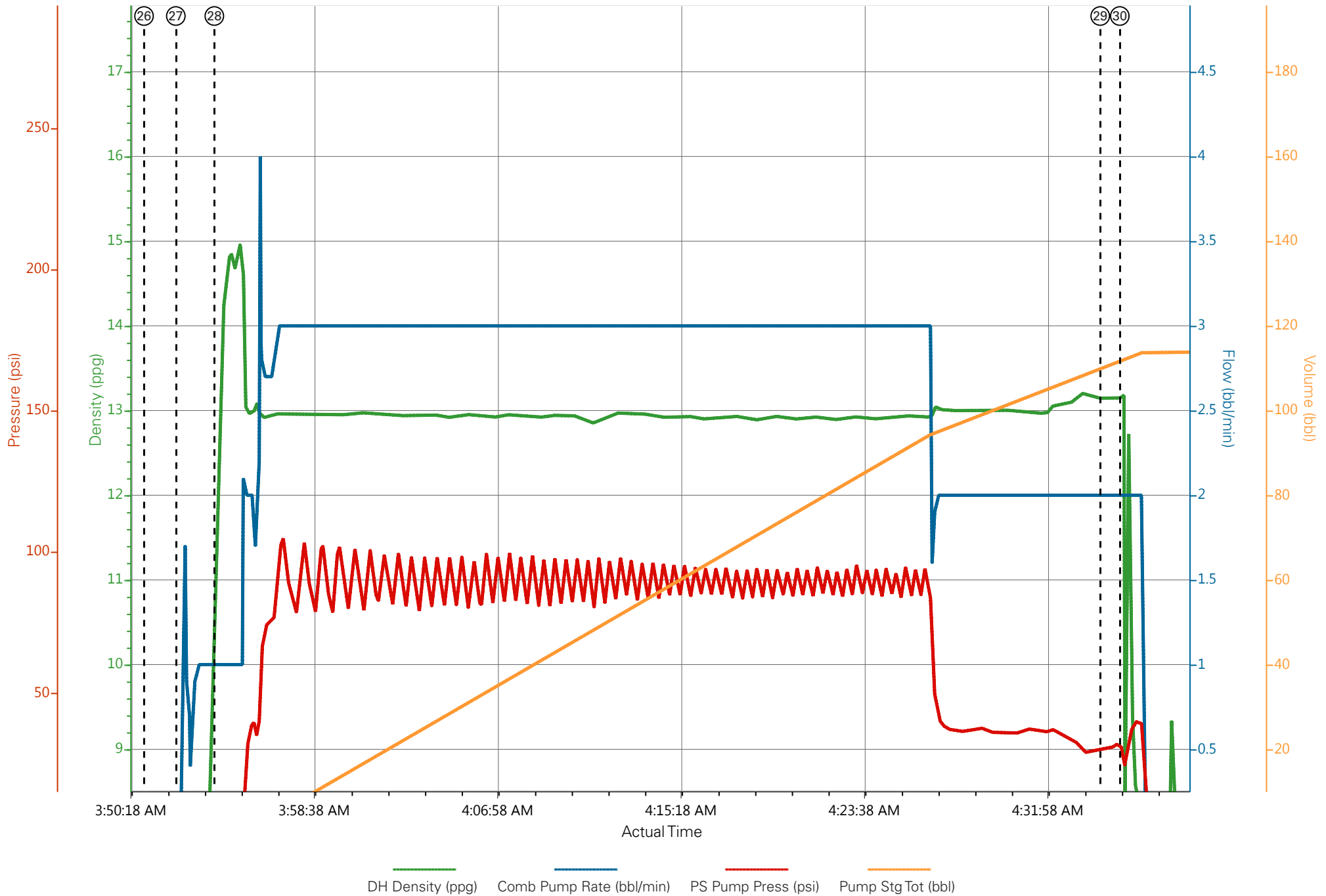
— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — PS Pump Press (psi)
 — Pump Stg Tot (bbl)

CAERUS PUCKETT 12A-1 9.625" SURFACE CASING

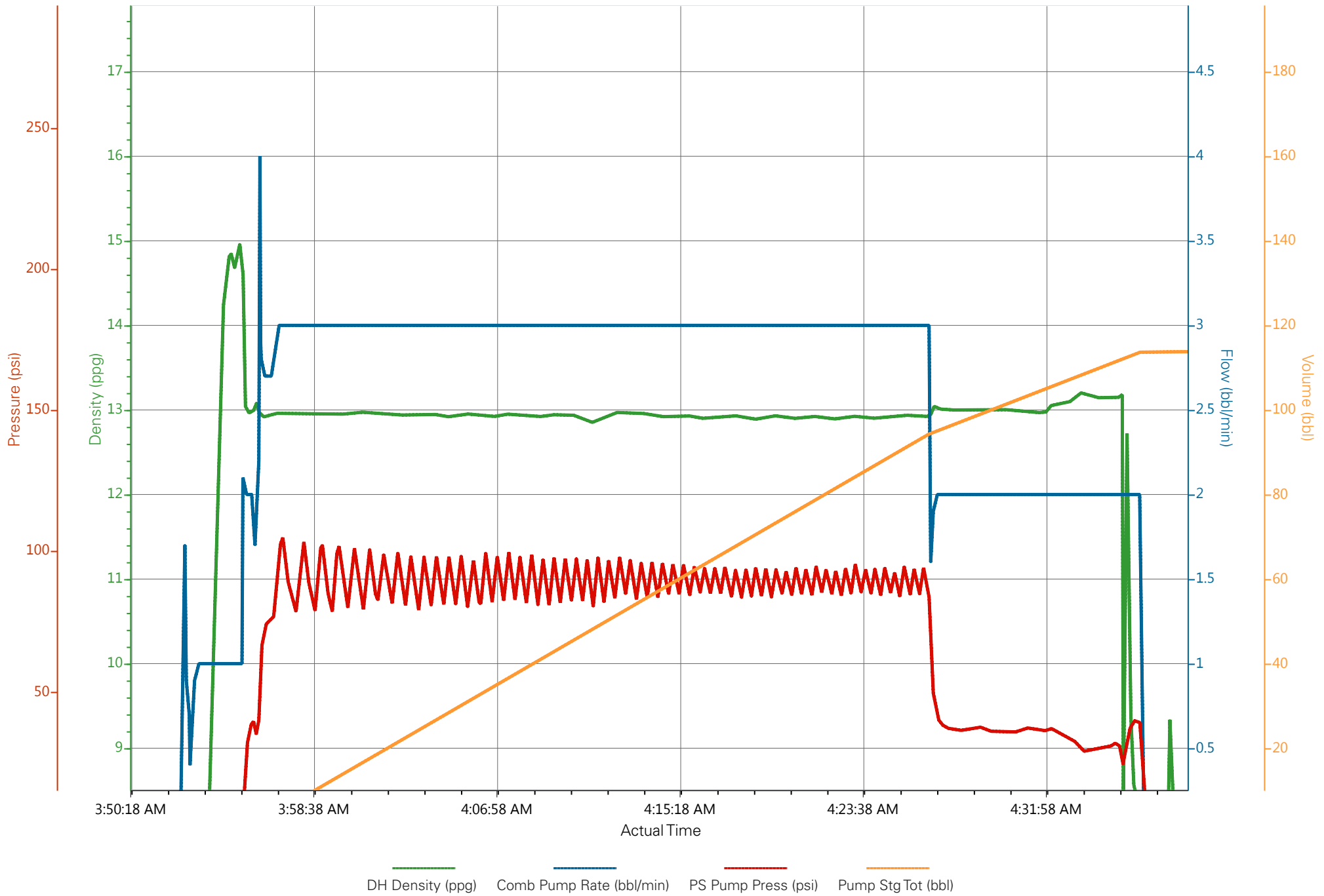


— DH Density (ppg)
 — Comb Pump Rate (bbl/min)
 — PS Pump Press (psi)
 — Pump Stg Tot (bbl)

CAERUS PUCKETT 12A-1 9.625" SURFACE - TOP OUT



CAERUS PUCKETT 12A-1 9.625" SURFACE - TOP OUT



Sales Order #: 0902493416	Line Item: 10	Survey Conducted Date: 6/14/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22634-00
Well Name: PUCKETT		Well Number: 0080702104
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	6/14/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB74155
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

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22634-00
Well Name: PUCKETT		Well Number: 0080702104
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	6/14/2015
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	Deviated
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	2
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

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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22634-00
Well Name: PUCKETT		Well Number: 0080702104
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

HALLIBURTON

Water Analysis Report

Company:	<u>CAERUS</u>	Date:	<u>6/14/2015</u>
Submitted by:	<u>CLIFF SPARKS</u>	Date Rec.:	<u>6/14/2015</u>
Attention:	<u>DALLAS SCOTT</u>	S.O.#	<u>902493416</u>
Lease	<u>PUCKET</u>	Job Type:	<u>SURFACE</u>
Well #	<u>12A-1</u>		

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
Hardness	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	60 Deg
Total Dissolved Solids		320 Mg / L

Respectfully: CLIFF SPARKS
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 i