

Caerus Oil and Gas LLC - EBUS

Puckett 22C-1

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 10/05/2015

Job Date: 9/27/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446		Ship To #: 3665823		Quote #:		Sales Order #: 0902781150	
Customer: CAERUS OIL AND GAS LLC - EBUS				Customer Rep: R. BOYD			
Well Name: PUCKETT			Well #: 22C-1		API/UWI #: 05-045-22851-00		
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: GARFIELD		State: COLORADO	
Legal Description: SE NW-1-7S-97W-2081FNL-1350FWL							
Contractor: H & P DRLG				Rig/Platform Name/Num: H & P 330			
Job BOM: 7521							
Well Type: DIRECTIONAL GAS							
Sales Person: HALAMERICA\HB80977				Srvc Supervisor: Clifford Sparks			

Job

GOT CEMENT TO SURFACE WITH 15 BBLS TYPE I/II TOP OUT

Formation Name			
Formation Depth (MD)	Top	Bottom	
Form Type		BHST	
Job depth MD	2497ft	Job Depth TVD	2497ft
Water Depth		Wk Ht Above Floor	Cellar, Offline
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	128	0	128
Casing		9.625	8.921	36	8 RD (LT&C)		0	2497	0	2497
Open Hole Section			14.75				128	2550	128	2550

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		2497	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625		
Float Collar	9.625	1		2452	SSR plug set	9.625		
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		

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			2	

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			2	
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	Water	Water	10	bbl	8.34			2	
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		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/min	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/min	Total Mix Fluid Gal
6	Displacement	Displacement	189.5	bbl	8.34			6	
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	Super Flush 101	Super Flush 101	10	bbl	10				
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
8	Top Out	REVERCEM (TM) CEMENT	300	sack	12.8	2.12		3	11.15
11.15 Gal		FRESH WATER							
Cement Left In Pipe		Amount	45 ft			Reason			Shoe Joint
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
9	Top Out	TYPE I/II CEMENT	75	sack	15.8	1.15		2	5
5 Gal		FRESH WATER							

1.0 Real-Time Job Summary

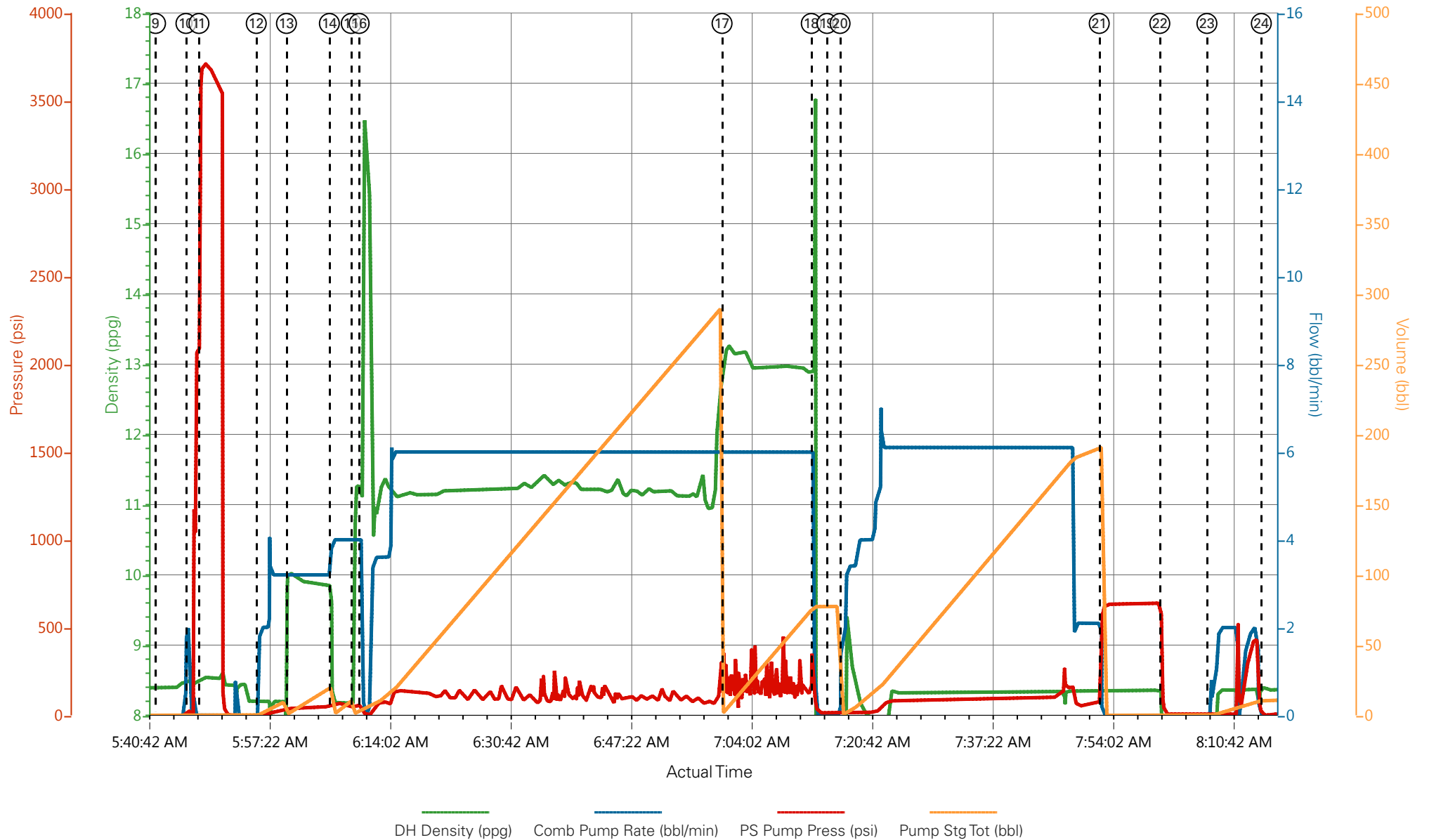
1.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	9/26/2015	22:00:00	USER					REQUESTED ON LOCATION @ 0400
Event	2	Pre-Convoy Safety Meeting	9/27/2015	00:00:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	9/27/2015	00:15:00	USER					1 - 550 PU, 1 - ELITE PUMP, 2 - 660'S. ELITE WAS WAITING IN FIELD AND SUPERFLUSH TRUCK WAS ON LOCATION. MET UP WITH PUMP AND ALL TRUCKS LEFT FROM DEBEQUE TOGETHER
Event	4	Arrive At Loc	9/27/2015	03:00:00	USER					ARRIVED AN HOUR EARLY. CASING CREW STILL RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	9/27/2015	03:15:00	USER					MET WITH CO REP AND WENT OVER NUMBERS AND JOB PROCEDURE. DID A WALKAROUND OF LOCATION GOT WATER SAMPLE AND FILLED OUT JSA
Event	6	Pre-Rig Up Safety Meeting	9/27/2015	03:30:00	USER					ALL HES PRESENT
Event	7	Rig-up Lines	9/27/2015	03:45:00	USER					WAS ABLE TO SPOT TRUCKS IN AND GET MOST OF THE RIG UP COMPLETED AND THE PUMP PRIMED UP WHILE STAYING OUT OF THE RED ZONE
Event	8	Pre-Job Safety Meeting	9/27/2015	05:00:00	USER					ALL HES AND RIG CREW PRESENT
Event	9	Start Job	9/27/2015	05:42:00	COM5					TD 2550', TP 2496.9', HOLE 14.75", CS 9.625" 36# J-55, SJ 45.2', MW 9.1

Event	10	Prime Pumps	9/27/2015	05:46:12	COM5	8.34	2.00	35.00	2	2 BBLS FRESH WATER
Event	11	Test Lines	9/27/2015	05:48:00	COM5			3702.00		TESTED TO 3700 PSI TESTED OK KICKOUTS FUNCTIONING
Event	12	Pump Spacer 1	9/27/2015	05:55:55	COM5	8.34	3	35	10	10 BBLS FRESH WATER
Event	13	Pump Spacer 2	9/27/2015	06:00:06	COM5	10.1	3	40	20	20 BBLS SUPER FLUSH
Event	14	Pump Spacer 1	9/27/2015	06:06:02	COM5	8.34	4.00	57.00	10	10 BBLS FRESH WATER
Event	15	Pump Lead Cement	9/27/2015	06:09:04	COM5	11	6	120	243.8	375 SKS (243.8BBLS) 11 PPG, 3.65 FT3/SK, 23.08 GAL/SK
Event	16	Other	9/27/2015	06:10:09	USER					BAD BULK DELIVERY. HAD TO SHUT DOWN AND CORRECT THE WEIGHT. BACK UP IN UNDER A MIN.
Event	17	Pump Tail Cement	9/27/2015	07:00:21	COM5	12.8	6	200	62.1	160 SKS (62.1BBLS) 12.8 PPG, 2.18 FT3/SK, 12.11 GAL/SK
Event	18	Shutdown	9/27/2015	07:12:42	USER					END OF CEMENT
Event	19	Drop Top Plug	9/27/2015	07:14:52	USER					PLUG WENT
Event	20	Pump Displacement	9/27/2015	07:16:40	COM5	8.34	6	100	189.5	189.5 BBLS FRESH WATER. SLOWED 10 OUT TO 2 BBLS/MIN. NO RETURNS THROUGH DISPLACEMENT OR JOB
Event	21	Bump Plug	9/27/2015	07:52:31	COM5					BUMPED AT 90 PSI WENT UP TO 630 PSI
Event	22	Check Floats	9/27/2015	08:00:54	USER					HELD 5 MIN AND RELEASED PRESSURE. 1 BBL BACK
Event	23	Other	9/27/2015	08:07:25	USER	8.34	2	10	500	PUMPED 10 BBLS SUGAR WATER THROUGH PARASITE. IT OPENED UP AT 6 BBLS GONE AT ABOUT 500 PSI
Event	24	End Job	9/27/2015	08:14:57	USER					END OF CEMENT JOB RIGGING UP FOR ANNULAR FILL AND WAITING 4 HOURS
Event	25	Start Job	9/27/2015	12:57:49	COM5					START ANNULAR FILL CEMENT

Event	26	Pump Spacer 1	9/27/2015	13:05:13	COM5	8.34	2	15	2	2 BBLS FRESH WATER TO ESTABLISH FLOW AND FILL LINES
Event	27	Pump Lead Cement	9/27/2015	13:07:18	COM5	12.8	3	114	113.3	300 SKS (113.3 BBLS) 12.8 PPG 2.12 FT3/SK, 11.15 GAL/SK
Event	28	Shutdown	9/27/2015	13:42:47	USER					USED ALL 300 SACKS. NO CEMENT TO SURFACE
Event	29	Pump Cement	9/27/2015	14:13:47	COM5	15.6	3	170	15	RIGGET UP TO THE TYPE I/II CEMENT IN THE SILO TO FINISH TOP OUT. 15 BBLS (75 SKS) 15.6 PPG, 1.15 FT3/SK, 5 GAL/SK
Event	30	Shutdown	9/27/2015	14:18:47	USER					CEMENT TO SURFACE
Event	31	Pre-Rig Down Safety Meeting	9/27/2015	14:20:00	USER					ALL HES PRESENT
Event	32	Rig Down Lines	9/27/2015	14:30:00	USER					
Event	33	Pre-Convoy Safety Meeting	9/27/2015	15:45:00	USER					ALL HES PRESENT
Event	34	Crew Leave Location	9/27/2015	16:00:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT. CLIFF SPARKS AND CREW

CAERUS PUCKETT 22C-1 H&P 330 9.625" SURFACE



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 Start Job 8.39;0;-3;0	⑬ Pump Spacer 2 10.03;3.2;40;1.9	⑰ Pump Tail Cement 13.12;6;1
② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a	⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑩ Prime Pumps 8.46;2;34;1	⑭ Pump Spacer 1 8.17;4;58;0.1	⑱ Shutdown 12.92;0;120;77.5
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑦ Rig-up Lines n/a;n/a;n/a;n/a	⑪ Test Lines 8.54;0;3702;1.1	⑮ Pump Lead Cement 10.12;4;46;1.2	⑲ Drop Top Plug 0.04;0;11;77.5
④ Arrive At Loc n/a;n/a;n/a;n/a	⑧ Pre-Job Safety Meeting 8.38;0;-2;0	⑫ Pump Spacer 1 8.21;2;1;0.4	⑯ Bulk Delivery Issue 11.4;1.6;39;5.5	⑳ Pump Displacement 5.5;1.7

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Created: 2015-09-27 03:56:41, Version: 4.2.384

Edit

Customer : CAERUS OIL AND GAS LLC - EBUS

Job Date : 9/27/2015 3:59:36 AM

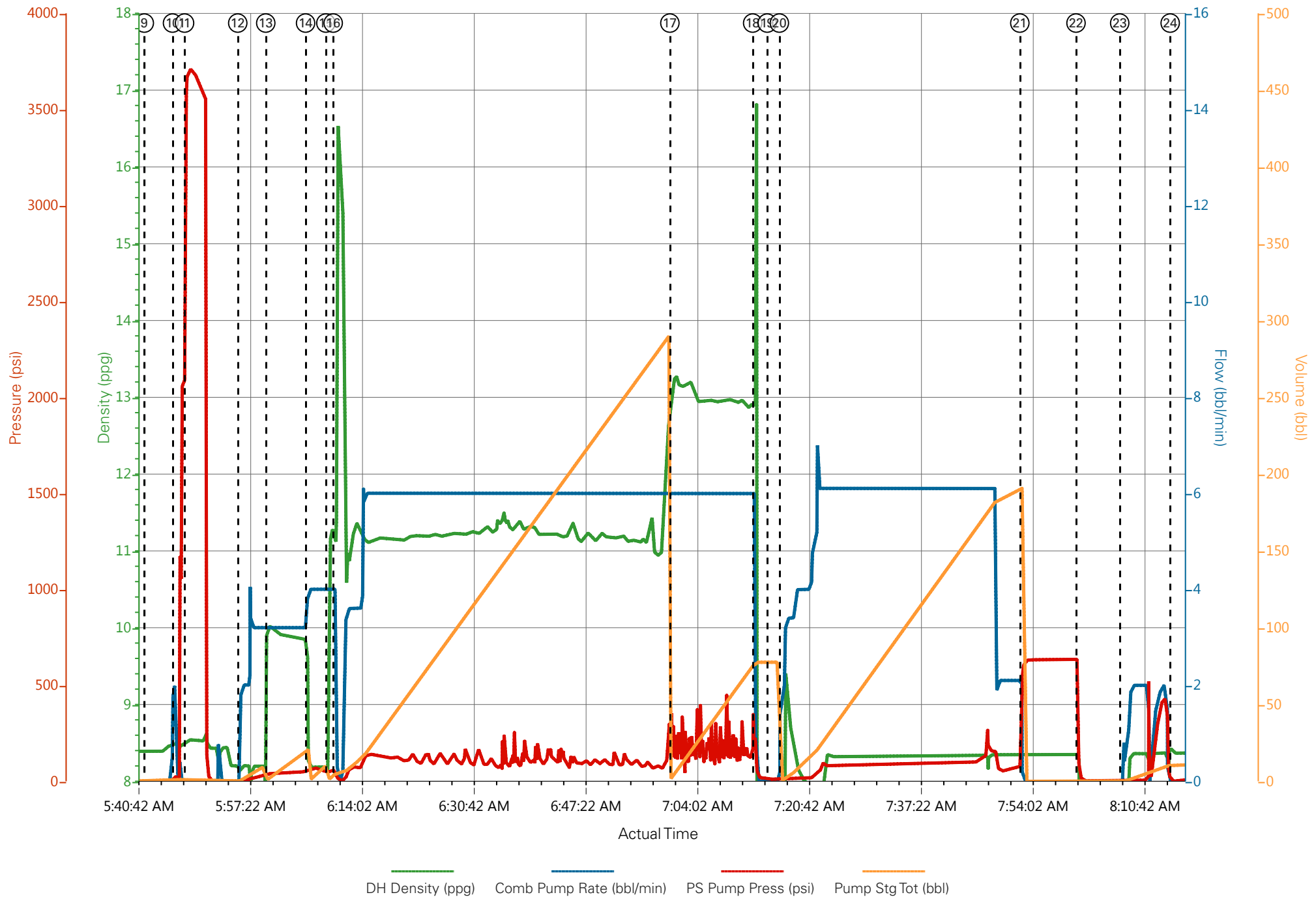
Well : 22C-1

Representative : R. BOYDE

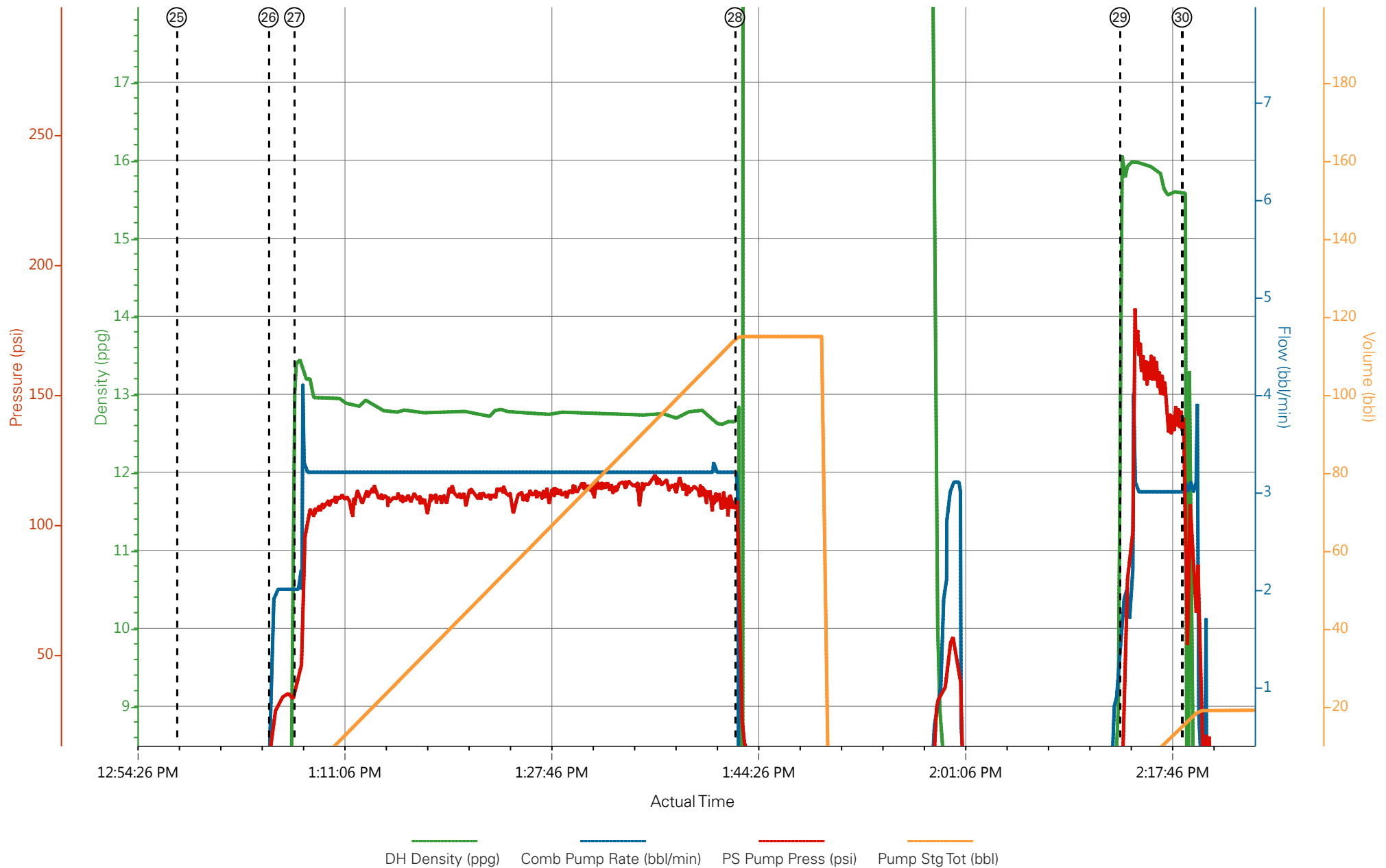
Sales Order # : 902781150

Supervisor/Operator : Cliff Sparks/Justin Brown E6

CAERUS PUCKETT 22C-1 H&P 330 9.625" SURFACE

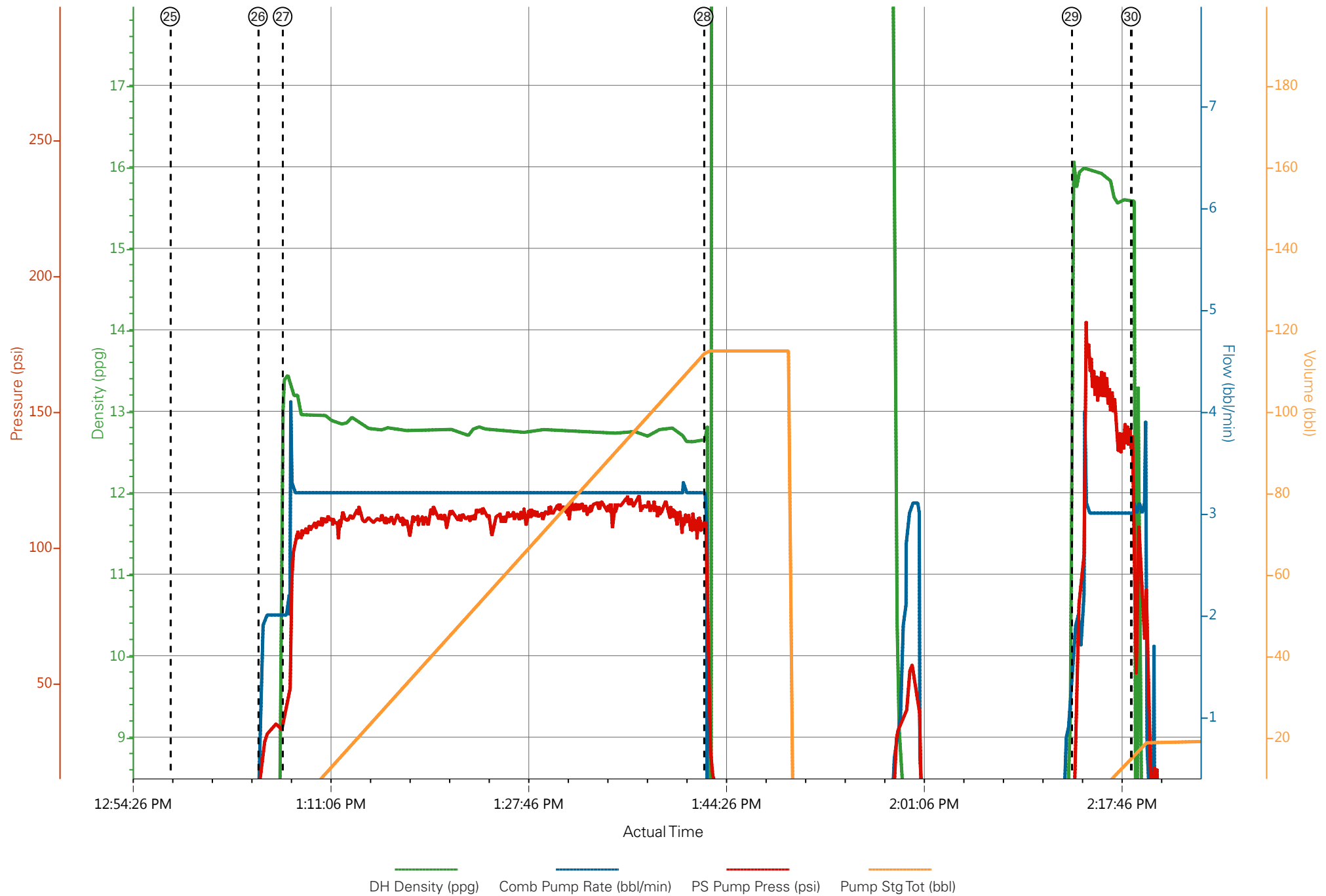


CAERUS PUCKETT 22C-1 H&P 330 9.625" SURFACE TOP OUT



8 PumpThrough Parasite -0.04;0;2;0 24 End Job 8.37;0;-1;10.3 25 Start Job 8.33;0;5;0 26 Pump Spacer 1 8.28;1.6;15;0.2 27 Pump Lead Cement 13.44;2;43;0.7 28 Shutdown 12.65;1.1;99;114.8 29 Pump

CAERUS PUCKETT 22C-1 H&P 330 9.625" SURFACE TOP OUT



HALLIBURTON

Water Analysis Report

Company: CAERUS
Submitted by: CLIFF SPARKS
Attention: DALLAS SCOTT
Lease: PUCKET
Well #: 22C-1

Date: 9/27/2015
Date Rec.: 9/27/2015
S.O.#: 902781150
Job Type: SURFACE

Specific Gravity	MAX	1
pH	8	7
Potassium (K)	5000	0 Mg / L
Hardness	500	250 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO ₄)	1500	<200 Mg / L
Temp	40-80	62 Deg
Total Dissolved Solids		180 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

Sales Order #: 0902781150	Line Item: 10	Survey Conducted Date: 9/28/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: R. BOYD		API / UWI: (leave blank if unknown) 05-045-22851-00
Well Name: PUCKETT		Well Number: 0080729569
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	9/28/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB74155
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	R. BOYD
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	N/A

CUSTOMER SIGNATURE

Sales Order #: 0902781150	Line Item: 10	Survey Conducted Date: 9/28/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: R. BOYD		API / UWI: (leave blank if unknown) 05-045-22851-00
Well Name: PUCKETT		Well Number: 0080729569
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	9/28/2015

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.	6
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.	3
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	5
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 #: 0902781150	Line Item: 10	Survey Conducted Date: 9/28/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: R. BOYD		API / UWI: (leave blank if unknown) 05-045-22851-00
Well Name: PUCKETT		Well Number: 0080729569
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