

Caerus Oil and Gas LLC- EBUS

Puckett 21A-1

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 09/02/2015
Job Date: 08/30/2015

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3665977	Quote #: 0022096005	Sales Order #: 0902707684
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: George Urban	
Well Name: PUCKETT	Well #: 21A-1	API/UWI #: 05-045-22865-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NW-1-7S-97W-2090FNL-1334FWL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977		Srcv Supervisor: Dustin Hyde	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2515ft Job Depth TVD
Water Depth	Wk Ht Above Floor
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	8 RD		0	2515		0
Open Hole Section			14.75				0	2525		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		2515	Top Plug	9.625	1	HES
Float Shoe	9.625	1			Bottom Plug			
Float Collar	9.625	1		2472	SSR plug set	9.625		
Insert Float	9.625	1			Plug Container	9.625	1	HES
Stage Tool	9.625	1			Centralizers	9.625	5	

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	20	bbl	9.17			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	Water	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	VariCem GJ5	VARICEM (TM) CEMENT	375	sack	11	3.65		7	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	VariCem GJ5	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	191	bbl	8.34			8	
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	50	sack	12.8	2.12		2	11.15
11.15 Gal		FRESH WATER							
Cement Left In Pipe	Amount	44 ft			Reason	Shoe Joint			
Comment									

1.0 Real-Time Job Summary

1.1 Job Event Log

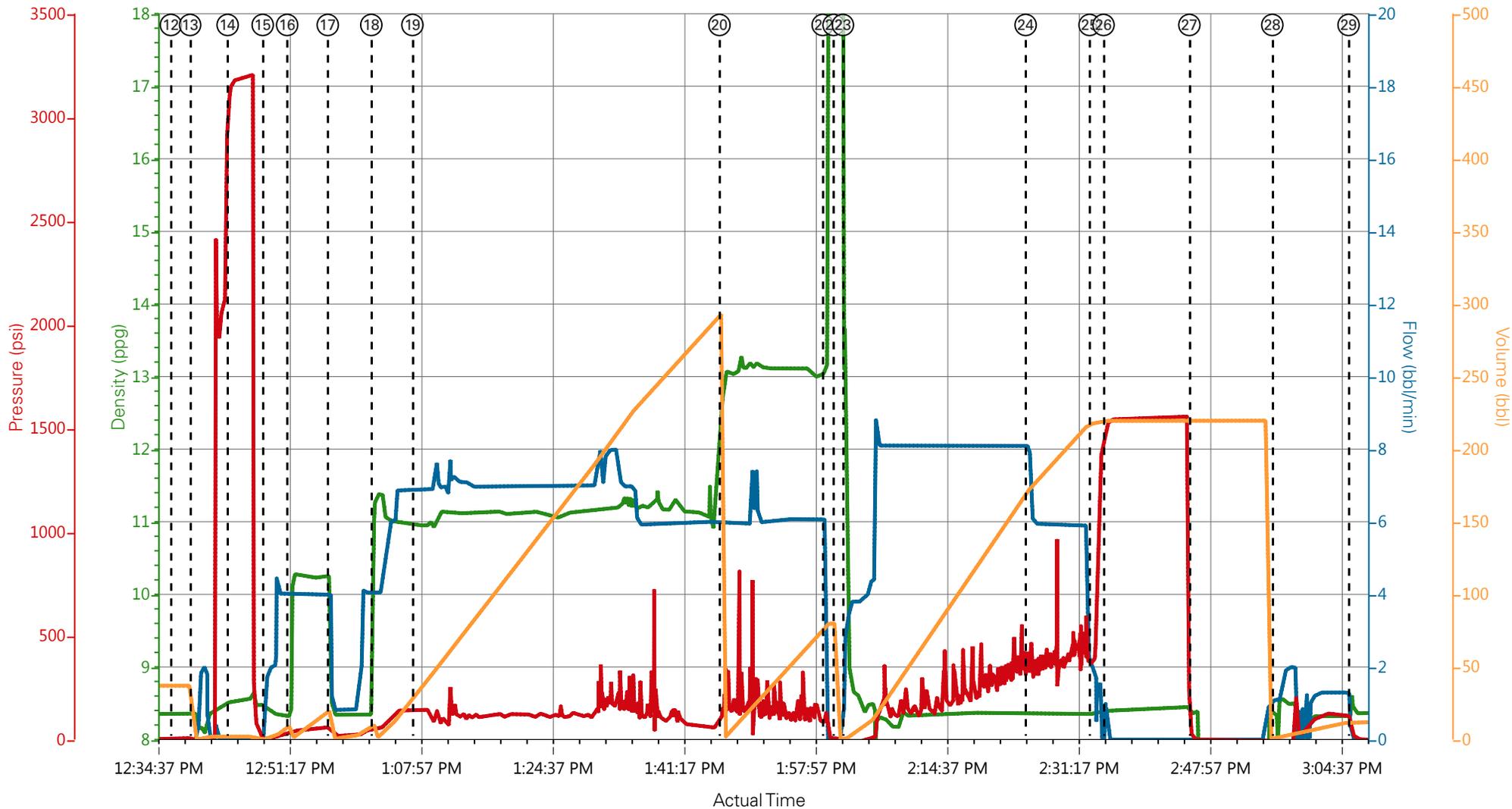
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	8/30/2015	02:00:00	USER					CREW CALLED OUT FOR JOB ON LOCATION AT 0900
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	8/30/2015	03:45:00	USER					ALL HES EMPLOYEES ATTENDED
Event	3	Crew Leave Yard	Crew Leave Yard	8/30/2015	04:00:00	USER					1 HT 400 PUMP TRUCK E #8, 2 660 BULK TRUCKS, 1 SUPERFLUSH TRANSPORT, 1 550 PICKUP SERVICE PICKUP
Event	4	Arrive At Loc	Arrive At Loc	8/30/2015	06:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	8/30/2015	06:45:00	USER					PERFORMED JSA AND WATER TEST
Event	6	Other	Spot Equipment	8/30/2015	07:30:00	USER					1 HT 400 PUMP TRUCK E #8, 2 660 BULK TRUCKS, 1 SUPERFLUSH TRANSPORT, 1 550 PICKUP SERVICE PICKUP
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	8/30/2015	07:45:00	USER					ALL HES EMPLOYEES ATTENDED

Event	8	Rig-Up Equipment	Rig-Up Equipment	8/30/2015	08:00:00	USER					1 HT 400 PUMP TRUCK E #8, 2 660 BULK TRUCKS, 1 SUPERFLUSH TRANSPORT, 1 1700 CUFT SILO, 1 550 PICKUP SERVICE PICKUP
Event	9	Rig-Up Completed	Rig-Up Completed	8/30/2015	08:45:13	USER					RIG STILL RUNNING CSG
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/30/2015	12:00:00	USER					ALL HES AND RIG EMPLOYEES ATTENDED
Event	11	Start Job	Start Job	8/30/2015	12:36:36	USER					TD 2525', TP 2515', SJ 43.71', OH 14 3/4", CSG 9 5/8" 36# J-55, MUD 9.1 PPG
Event	12	Prime Pumps	Prime Lines	8/30/2015	12:39:03	COM8	8.33	2.0	5	2	FRESH WATER
Event	13	Test Lines	Test Lines	8/30/2015	12:43:48	COM8			3195		PRESSURE HELD
Event	14	Pump Spacer 1	Pump H2O Spacer	8/30/2015	12:48:14	COM8	8.33	4.0	27	10	FRESH WATER
Event	15	Pump Spacer 2	Pump Super Flush 101	8/30/2015	12:51:21	COM8	9.12	4.0	60	20	20 BBL SUPER FLUSH 101
Event	16	Pump Spacer 1	Pump H2O Spacer	8/30/2015	12:56:30	COM8	8.33	4.0	55	10	FRESH WATER
Event	17	Pump Lead Cement	Pump Lead Cement	8/30/2015	13:02:01	COM8	11.0	7.0	150	244	375 SKS VARICEM CMT, 11.0 PPG, 3.65 YIELD, 23.08 GAL/SK
Event	18	Check Weight	Check weight	8/30/2015	13:07:13	COM8					RECIRC DENSITY MATCHED BALANCED MUD CUP
Event	19	Pump Tail Cement	Pump Tail Cement	8/30/2015	13:46:09	COM8	12.8	6.0	180	63	160 SKS OF VARICEM CMT, 12.8 PPG, 2.18 YIELD, 12.11 GAL/SK
Event	20	Shutdown	Shutdown	8/30/2015	13:59:14	USER					END OF CMT

Event	21	Drop Top Plug	Drop Top Plug	8/30/2015	14:00:36	COM8						VARIFIED BY TATTLE TAIL
Event	22	Pump Displacement	Pump Displacement	8/30/2015	14:01:47	COM8	8.33	8.0	380	181		FRESH WATER
Event	23	Slow Rate	Slow Rate	8/30/2015	14:24:57	USER						SLOWED DUE TO STARTED GETTING RETURNS @ 130 BBLS INTO DISPLACEMENT AND RIG STARTED PUMPING OUT OF CELLUR NO CMT RETURNS
Event	24	Slow Rate	Slow Rate	8/30/2015	14:33:03	USER	8.33	2.0	360	10		SLOWED TO LAND PLUG
Event	25	Bump Plug	Bump Plug	8/30/2015	14:34:50	COM8	8.33	2.0	380	191		PLUG BUMPED BROUGHT PRESSURE TO 1500 PSI FOR A 10 MIN. CASING TEST
Event	26	Check Floats	Check Floats	8/30/2015	14:45:42	USER				1560		1 BBL FLOW BACK
Event	27	Clean Lines	Parasit	8/30/2015	14:56:13	USER	8.33	2.0	130	12		PUMPED 12 BBLS SUGAR WATER THROUGH PARASIT LINE RECEIVED FLOW 6 BBLS IN
Event	28	End Job	Topout	8/30/2015	15:05:53	USER						GETTING READY FOR TOPOUT
Event	29	Pump Spacer 1	Pump H2O Ahead	8/30/2015	15:29:58	COM8	8.33	1.0	80	1.0		FRESH WATER
Event	30	Pump Cement	Pump Cement	8/30/2015	15:30:22	COM8	12.8	1.0	70	15		12.8 PPG, 2.12 YIELD, 11.15 GAL/SK
Event	31	Shutdown	Shutdown	8/30/2015	15:38:23	USER	14.10	0.90	16.00	14.5		PUMPED 15 BBLS TOPOUT
Event	32	Resume	Resume	8/30/2015	15:42:42	USER	3.62	0.00	3.00	14.6		CMT FELL ABOUT 1.5'
Event	33	Shutdown	Shutdown	8/30/2015	15:43:38	USER	15.15	0.00	8.00	15.6		PUMPED 1 BBL TOPOUT

Event	34	Resume	Resume	8/30/2015	15:51:56	USER	0.25	0.00	3.00	15.6	CMT FELL ABOUT 1'
Event	35	Shutdown	Shutdown	8/30/2015	15:52:31	USER	13.57	0.10	46.00	16.0	PUMPED 1 BBL TOPOUT
Event	36	End Job	End Job	8/30/2015	15:53:00	USER	1.27	0.00	11.00	16.0	PUMPED 17 BBLS ABOUT 50 SKS
Event	37	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	8/30/2015	16:00:00	USER	0.99	0.00	4.00	16.0	ALL HES EMPLOYEES ATTENDED
Event	38	Rig-Down Completed	Rig-Down Completed	8/30/2015	18:00:00	USER					NO INJURIES TO REPORT
Event	39	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	8/30/2015	18:30:00	USER					ALL HES EMPLOYEES ATTENDED
Event	40	Crew Leave Location	Crew Leave Location	8/30/2015	19:00:00	USER					THANK YOU FOR USING HALLIBURTON CMT

CAERUS OIL AND GAS PUCKETT 21A-1 9 5/8" SURFACE



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

- | | | | | | | | |
|---|-----------------------------|-------------------|------------------------|----------------------|-------------------|----------------|-----------|
| ① Call Out | ⑥ Spot Equipment | ⑪ Start Job | ⑯ Pump Super Flush 101 | 21 Shutdown | 26 Bump Plug | 31 Pump Cement | 36 Shut |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Rig Up Safety Meeting | ⑫ Start Job | ⑰ Pump H2O Spacer | 22 DropTop Plug | 27 Check Floats | 32 Shutdown | 37 End J |
| ③ Crew Leave Yard | ⑧ Rig-Up Equipment | ⑬ Prime Lines | ⑱ Pump Lead Cement | 23 Pump Displacement | 28 Parasit | 33 Resume | 38 Post-J |
| ④ Arrive At Loc | ⑨ Rig-Up Completed | ⑭ Test Lines | ⑲ Check weight | 24 Slow Rate | 29 Topout | 34 Shutdown | 39 Rig-D |
| ⑤ Assessment Of Location Safety Meeting | ⑩ Pre-Job Safety Meeting | ⑮ Pump H2O Spacer | 20 Pump Tail Cement | 25 Slow Rate | 30 Pump H2O Ahead | 35 Resume | 40 Pre-C |

HALLIBURTON | iCem® Service

Created: 2015-08-30 08:28:46, Version: 4.2.384

Edit

Customer : CAERUS OIL AND GAS LLC - EBUS

Job Date : 8/30/2015

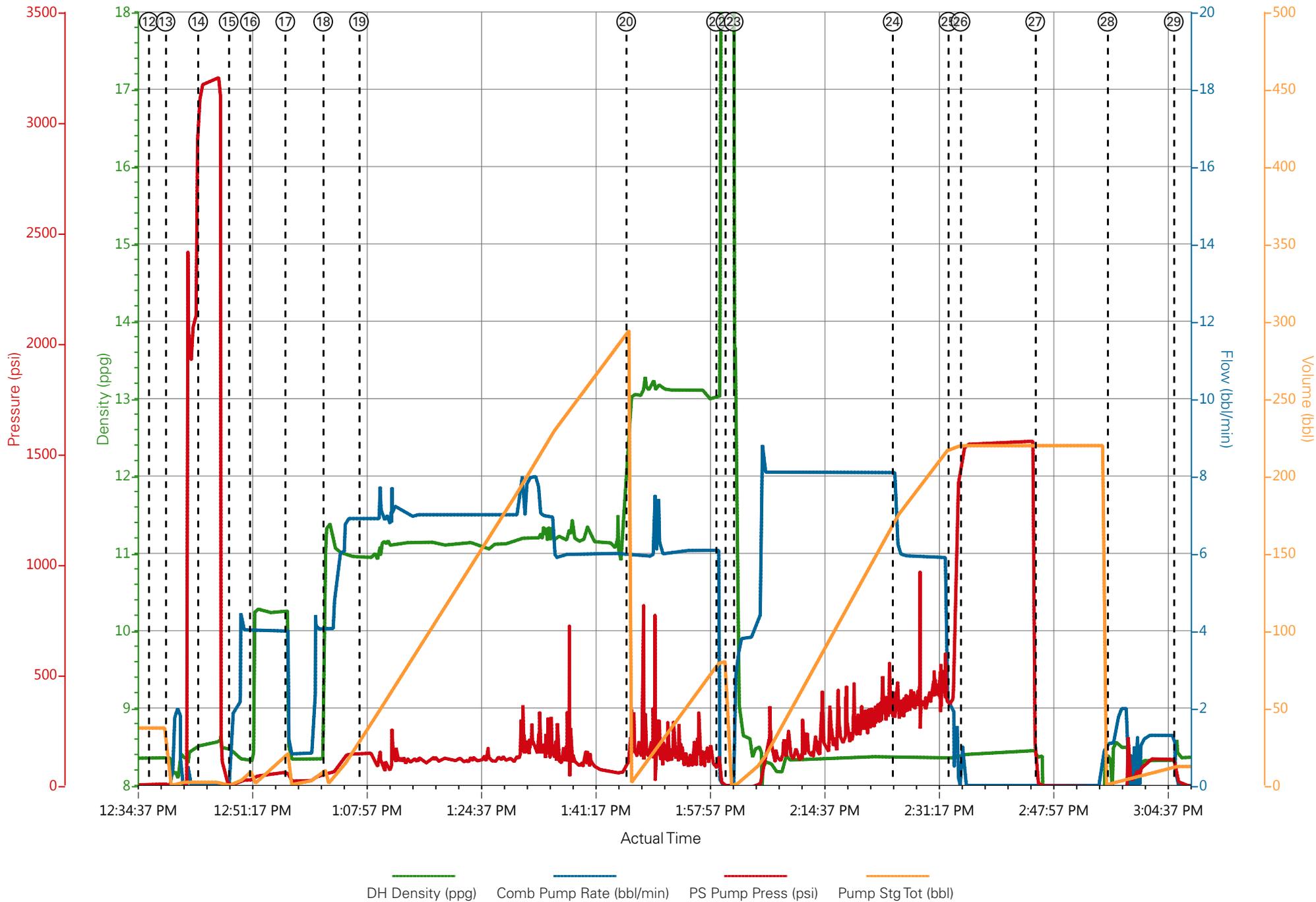
Well : PUCKETT 21A-1

Representative : GEORGE URBAN

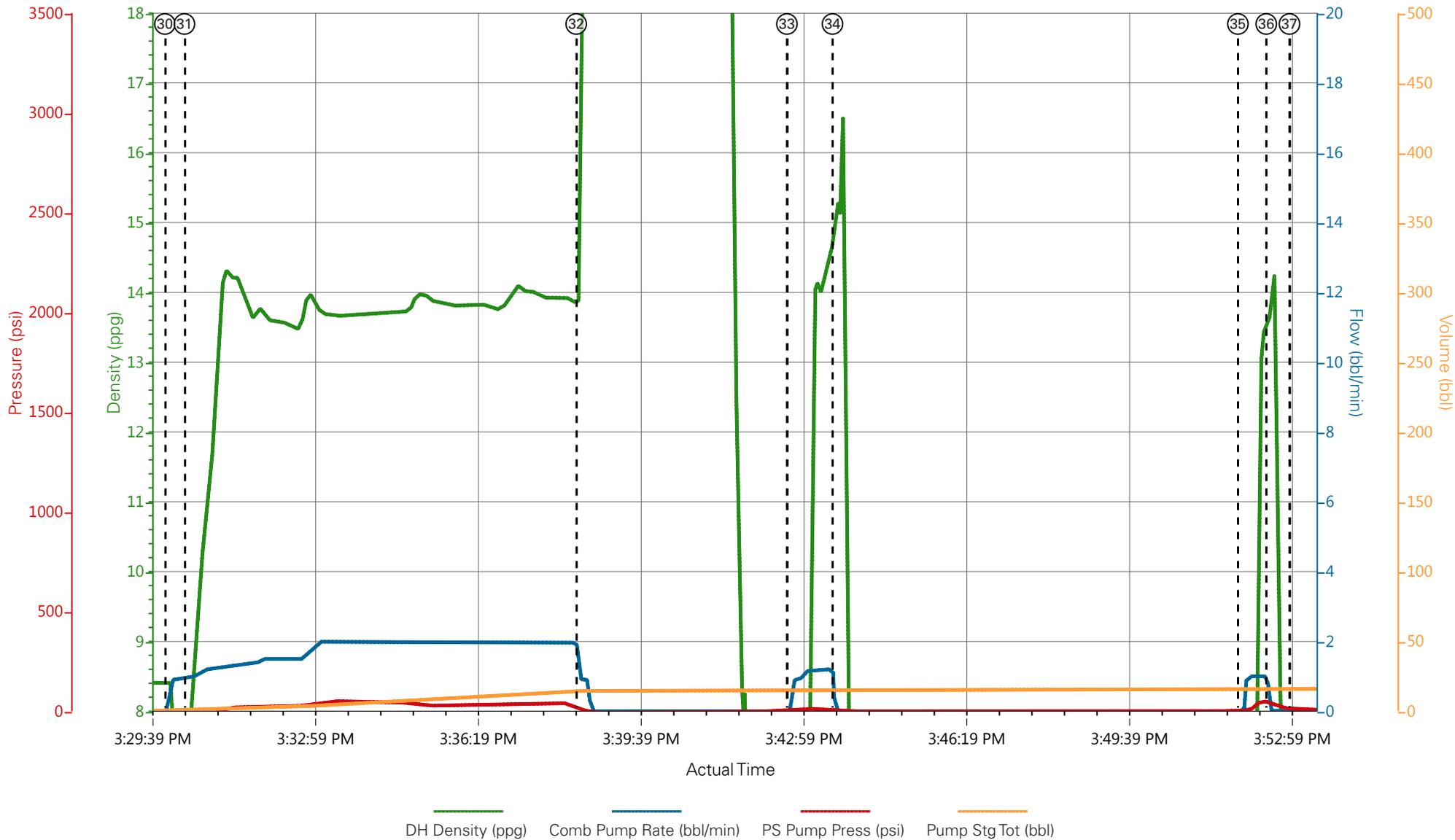
Sales Order # : 902707684

ELITE 8 : DUSTIN HYDE / MAX LOBATO

CAERUS OIL AND GAS PUCKETT 21A-1 9 5/8" SURFACE



CAERUS OIL AND GAS PUCKETT 21A-1 TOPOUT



- | | | | | | | | |
|---|-----------------------------|-------------------|------------------------|----------------------|-------------------|----------------|-----------|
| ① Call Out | ⑥ Spot Equipment | ⑪ Start Job | ⑯ Pump Super Flush 101 | 21 Shutdown | 26 Bump Plug | 31 Pump Cement | 36 Shut |
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HALLIBURTON | iCem® Service

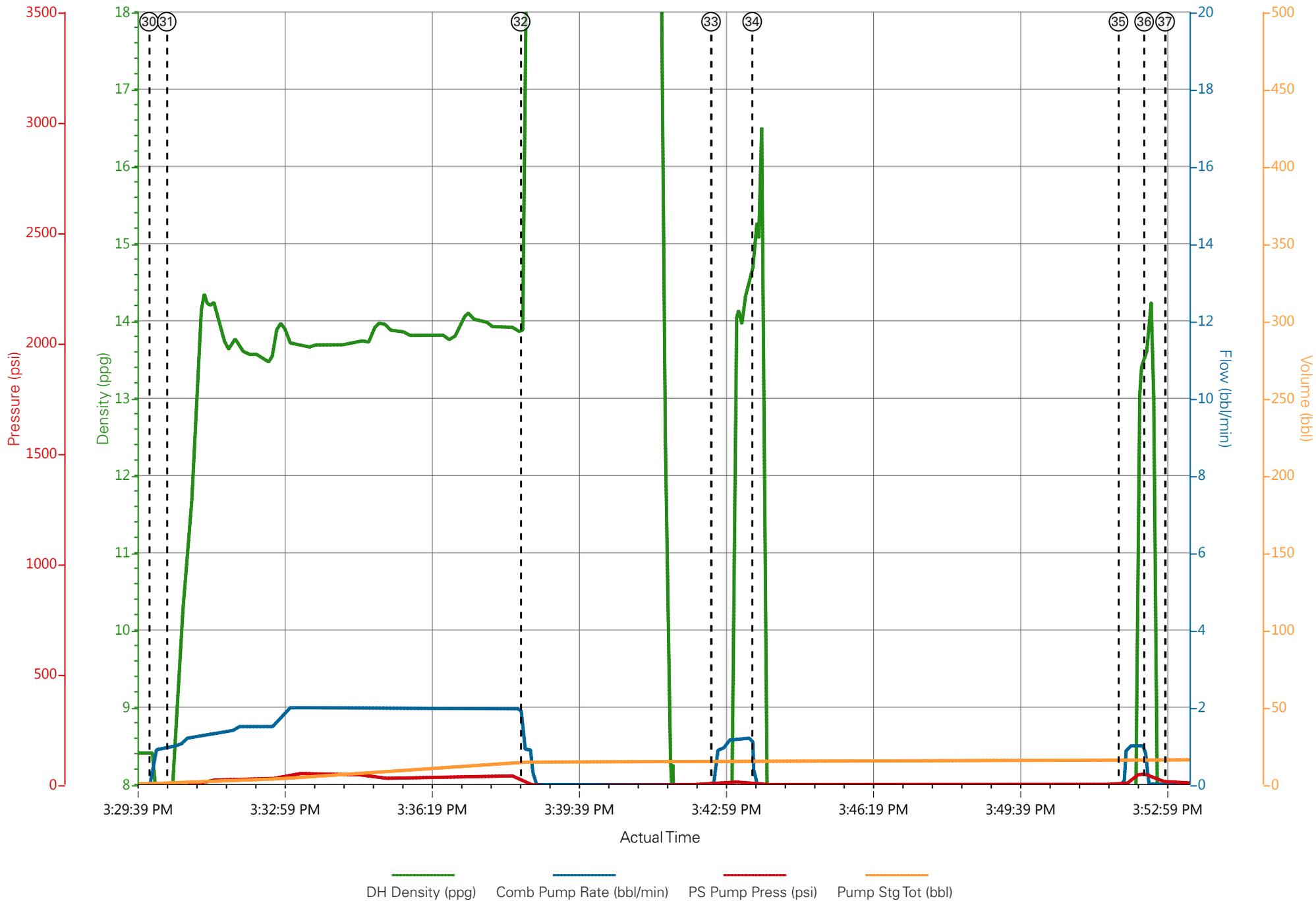
Created: 2015-08-30 08:28:46, Version: 4.2.384

Customer : CAERUS OIL AND GAS LLC - EBUS
 Representative : GEORGE URBAN

Job Date : 8/30/2015
 Sales Order # : 902707684

Well : PUCKETT 21A-1
 ELITE 8 : DUSTIN HYDE / MAX LOBATO

CAERUS OIL AND GAS PUCKETT 21A-1 TOPOUT



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

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		Max Psi <u>1616</u>			
	FILL LINES	2				
6	Test Lines	3000.0				
9	H2O Spacer	10.0		8.33		
	Super Flush 101	20.0		9.17		
	H2O Spacer	10.0		8.33		
	LEAD CEMENT	243.8	375	11	3.65	23.08
15	TAIL CEMENT	62.1	160	12.8	2.18	12.11
	SHUTDOWN		WASH UP ON TOP			
	DROP TOP PLUG					
25	DISPLACEMENT	191.0		8.33		
	SLOW RATE	181.0	SLOW TO 2 BPM			
	LAND PLUG	381+1500	BRING UP FOR CSG TEST			
	CHECK FLOATS					
	PUMP PARASITE	10.0	SUGAR WATER			
	TOP OUT IF NEEDED	112.0	300	12.8	2.12	11.15
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
191.03	2515	43.71	2471.29	0.0773	493	
psi to lift	1071	<u>9 5/8 SURFACE</u>				
Total Displacement	191.03					
CALCULATED PSI LAND		381	TOTAL FLUID PUMPED		539	
Collapse	2020	Burst	3520	SO#	902707684	

HALLIBURTON

Water Analysis Report

Company: CAERUS

Submitted by: Dustin Hyde

Attention: J.TROUT

Lease PUCKETT

Well # 21A-1

Date: 8/30/2015

Date Rec.: 8/30/2015

S.O.# 902707684

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	3 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	63 Deg
Total Dissolved Solids		60 Mg / L

Respectfully: Dustin Hyde

Title: Cement 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

Sales Order #: 0902707684	Line Item: 10	Survey Conducted Date: 8/30/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: GEORGE URBAN		API / UWI: (leave blank if unknown) 05-045-22865-00
Well Name: PUCKETT		Well Number: 0080729629
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	8/30/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB43597
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	GEORGE URBAN
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	

CUSTOMER SIGNATURE

Sales Order #: 0902707684	Line Item: 10	Survey Conducted Date: 8/30/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: GEORGE URBAN		API / UWI: (leave blank if unknown) 05-045-22865-00
Well Name: PUCKETT		Well Number: 0080729629
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	8/30/2015
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	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: GEORGE URBAN		API / UWI: (leave blank if unknown) 05-045-22865-00
Well Name: PUCKETT		Well Number: 0080729629
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	97
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