

Caerus Oil and Gas LLC - EBUS

Puckett 42C-2

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 4/29/2015

Job Date: 4/23/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3187994	Quote #: 0022038734	Sales Order #: 0902343612
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: WHITEY COTTAM	
Well Name: PUCKETT	Well #: 42C-2D	API/UWI #: 05-045-17739-00	
Field: GRAND VALLEY	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: TR-66-2-797SW-2260FNL-718FEL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: VERTICAL OIL			
Sales Person: HALAMERICA\HB80977		Srvc Supervisor: John Keane	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2519 ft Job Depth TVD 2519 ft
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
Open Hole Section			14.75				0	2540		2540
Casing		9.625	8.921	36			0	2519	0	2519

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	9.625	1		2519				
Float Collar	9.625	1		2476				
Insert Float					Plug Container	9.625	1	HES
Stage Tool								

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	20	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	Lead Cement	VARICEM (TM) CEMENT	485	sack	11	3.65		4	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
3	Tail Cement	VARICEM (TM) CEMENT	155	sack	12.8	2.18		4	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
4	Displacement	Displacement	191	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
5	Super Flush 101	Super Flush 101	40	bbl	9.17			n/a	
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
6	Annular Fill	REVERCEM (TM) CEMENT	300	sack	12.8	2.12		2	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
7	Top Out	Type I-II Cement	150	sack	15.6	1.16		2	5.12
5.02 Gal		FRESH WATER							
94 lbm		TYPE I / II CEMENT, BULK (101439798)							
0.10 Gal		CALCIUM CHLORIDE - LIQUID, 5 GAL PAIL (100005054)							
Cement Left In Pipe	Amount	43 ft		Reason	Shoe Joint				
Comment 300 SKS ANNULAR FILL, 150 SKS TYPE I/II USED TO TOP OUT WELL, 144 BBL CEMENT, 1186FT ANNULUS FILLED WITH CEMENT									

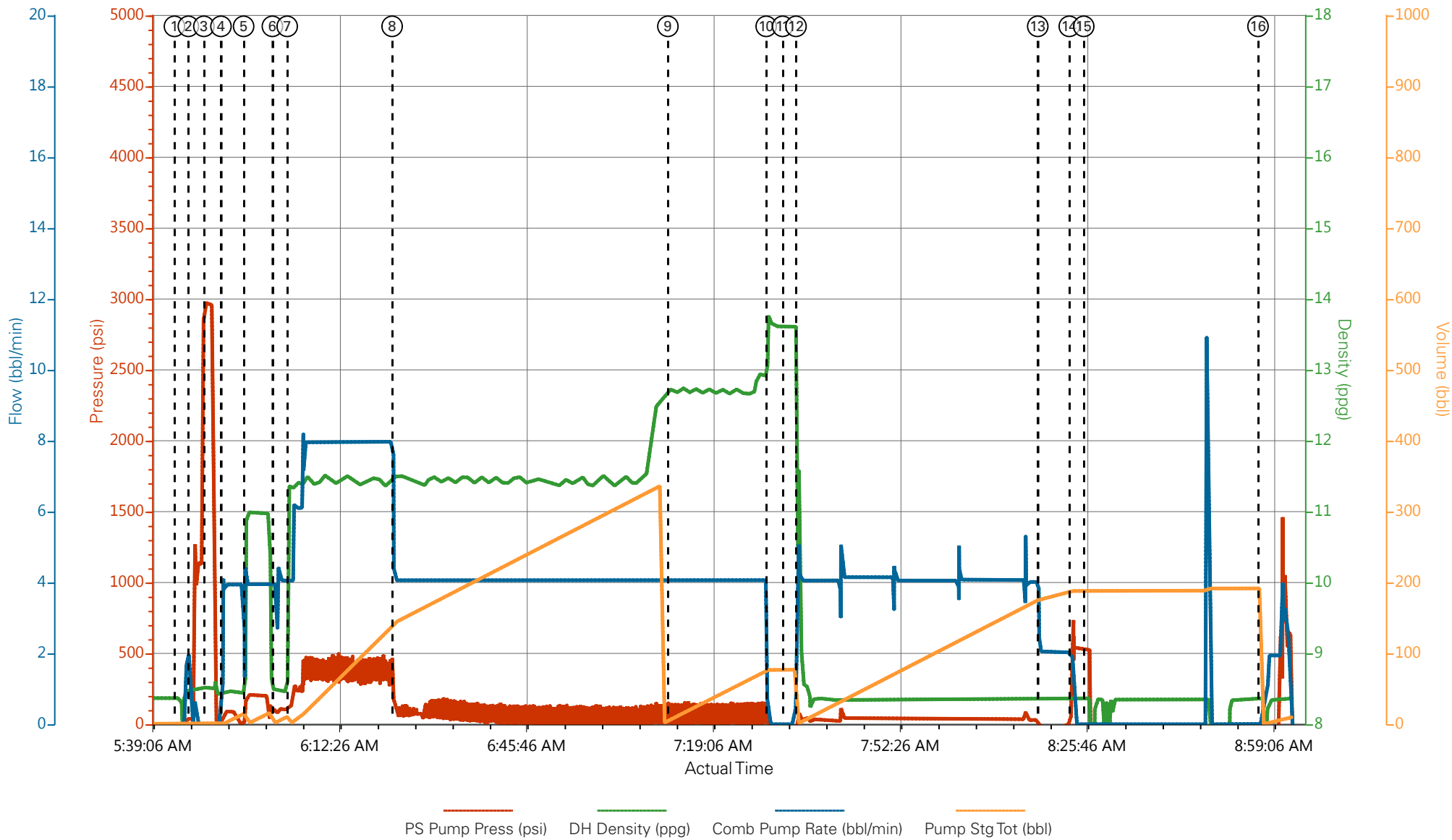
4.5 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Pass-Side Pump Pressure (1) (psi)	Comments
Event	1	Call Out	4/22/2015	16:30:00	USER						
Event	2	Pre-Convoy Safety Meeting	4/22/2015	20:40:00	USER						WITH HES, 1 F-550, 2 660 BULK TRUCKS, 1 ELITE
Event	3	Arrive At Loc	4/23/2015	03:30:00	USER						RIG RUNNING CASING UPON HES ARRIVAL
Event	4	Assessment Of Location Safety Meeting	4/23/2015	04:15:00	USER						WITH HES
Event	5	Pre-Rig Up Safety Meeting	4/23/2015	04:30:00	USER						WITH HES
Event	6	Rig-Up Equipment	4/23/2015	04:45:00	USER						1 LINE RAN TO THE FLOOR
Event	7	Pre-Job Safety Meeting	4/23/2015	05:30:00	USER						WITH HES, CAERUS, AND H&P 330
Event	8	Start Job	4/23/2015	05:43:29	USER						TD 2540 FT, TP 2519 FT, CSG 9.625 IN 36 LB/FT J-55, SHOE 43.25 FT, HOLE 14.75 IN, MWT 9.2 LB/GAL
Event	9	Prime Pumps	4/23/2015	05:45:58	USER	32.62	8.46	0.08	2.0		
Event	10	Test Lines	4/23/2015	05:48:44	USER	2964.04	8.52	0.00	2.0		LOW TEST AT 1133 PSI, HIGH TEST AT 2964 PSI, PRESSURE HOLDING
Event	11	Pump Spacer 1	4/23/2015	05:51:47	USER	87.93	8.45	3.94	10.0		
Event	12	Pump Spacer	4/23/2015	05:55:49	USER	219.19	10.97	3.95	20.0		
Event	13	Pump Spacer 2	4/23/2015	06:00:57	USER	115.12	8.48	3.95	10.0		
Event	14	Pump Lead Cement	4/23/2015	06:03:36	COM5	133.87	11.0	4.04	315		MIXED AT 11.0 LB/GAL, 485 SKS, 3.65 FT3/SK, 23.08 GAL/SK, DENSITY VERIFIES USING PRESSURIZED MUD SCALES
Event	15	Slow Rate	4/23/2015	06:22:19	USER	113.25	11.0	4.06	144.0		SLOWED AT 140 BBL AWAY ON LEAD CEMENT

Type	Seq. No.	Activity	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Pass-Side Pump Pressure (1) (psi)	Comments
Event	16	Pump Tail Cement	4/23/2015	07:11:30	COM5	93.56	12.80	4.02	60.0		MIXED AT 12.8 LB/GAL, 155 SKS, 2.18 FT3/SK, 12.11 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	17	Shutdown	4/23/2015	07:29:02	USER	-41.44	13.69	0.00	60.0		NO RETURNS DURING SPACER OR CEMENT
Event	18	Drop Top Plug	4/23/2015	07:31:58	COM5	-39.57	13.60	0.00	60.0		PLUG LAUNCHED
Event	19	Pump Displacement	4/23/2015	07:34:21	COM5	36.37	8.33	4.07	181		FRESH WATER, NO RETURNS
Event	20	Slow Rate	4/23/2015	08:17:29	USER	-26.44	8.35	2.05	10		SLOWED AT 181 BBL AWAY
Event	21	Bump Plug	4/23/2015	08:23:06	USER	31.00	8.36	1.83	191.0		PLUG BUMPED AT CALCULATED DISPLACEMENT
Event	22	Check Floats	4/23/2015	08:25:41	USER	526.69	8.37	0.00	191.0		FLOATS HOLDING, 2 BBL RETURNED TO THE TRUCK
Event	23	Comment	4/23/2015	08:56:46	USER						PUMPED 10 BBL SUGAR WATER THROUGH RIGS PARASITE STRING
Event	24	Pump Cement	4/23/2015	14:17:58	USER						TOP OUT CEMENT, MIXED AT 12.8 LB/GAL, 300 SKS, 2.12 FT3/SK, 11.15 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES, DUMPED SUPER FLUSH 101 DOWN THE BACKSIDE FOR THE LAST 130 SKS PER COMPANY REP
Event	25	Shutdown	4/23/2015	15:08:31	USER						SHUTDOWN, NO CEMENT TO SURFACE
Event	26	Pump Cement	4/23/2015	16:29:55	USER						MIXED AT 15.6 LB/GAL, 150 SKS, 1.16 FT3/SK, , 5.12 GAL/SK, 2 % CACL ADDED DOWNHOLE, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	27	End Job	4/23/2015	16:40:55	USER						GOOD CIRCULATION, PIPE WAS STATIC, 5 ADD HOURS CHARGED, RIG USED 80 LBS SUGAR, 105 LBS TUFF FIBER ADDED TO LEAD CEMENT.
Event	28	Pre-Rig Down Safety Meeting	4/23/2015	17:00:00	USER						WITH HES
Event	29	Rig-Down Equipment	4/23/2015	17:10:00	USER						
Event	30	Pre-Convoy Safety	4/23/2015	18:30:00	USER						WITH HES

Type	Seq. No.	Activity	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Pass-Side Pump Pressure (1) (psi)	Comments
		Meeting									
Event	31	Crew Leave Location	4/23/2015	18:45:00	USER						
Event	32	Comment	4/23/2015	18:46:00	USER						THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

Caerus Oil & Gas - PUCKETT 42C-2D - 9.625 IN SURFACE



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

- | | | |
|--|--|---|
| ① Start Job -4.88;8.37;0;0.6
② Fill Lines 32.62;8.46;0.08;1.95
③ Test Lines 2967.04;8.52;0;2
④ Pump Fresh Water Spacer 87.93;8.45;3.94;1.31
⑤ Pump Superflush 101 Spacer 219.19;10.97;3.95;0.33
⑥ Pump Fresh Water Spacer 115.12;8.48;3.95;2.73 | ⑦ Pump Lead Cement 133.87;11.36;4.04;1.49
⑧ Slow Rate 113.25;11.49;4.06;144.02
⑨ Pump Tail Cement 93.56;12.75;4.02;73
⑩ Shutdown -41.44;13.69;0;76.92
⑪ Drop Top Plug -39.57;13.6;0;76.92
⑫ Pump Displacement 36.37;10.25;4.07;1.78 | ⑬ Slow Rate -26.44;8.35;2.05;176.84
⑭ Bump Plug 397.31;8.36;1.83;188.27
⑮ Check Floats 526.69;8.37;0;188.39
⑯ Pump Through Parasite String -63.01;8.36;0;0 |
|--|--|---|

HALLIBURTON | iCem® Service

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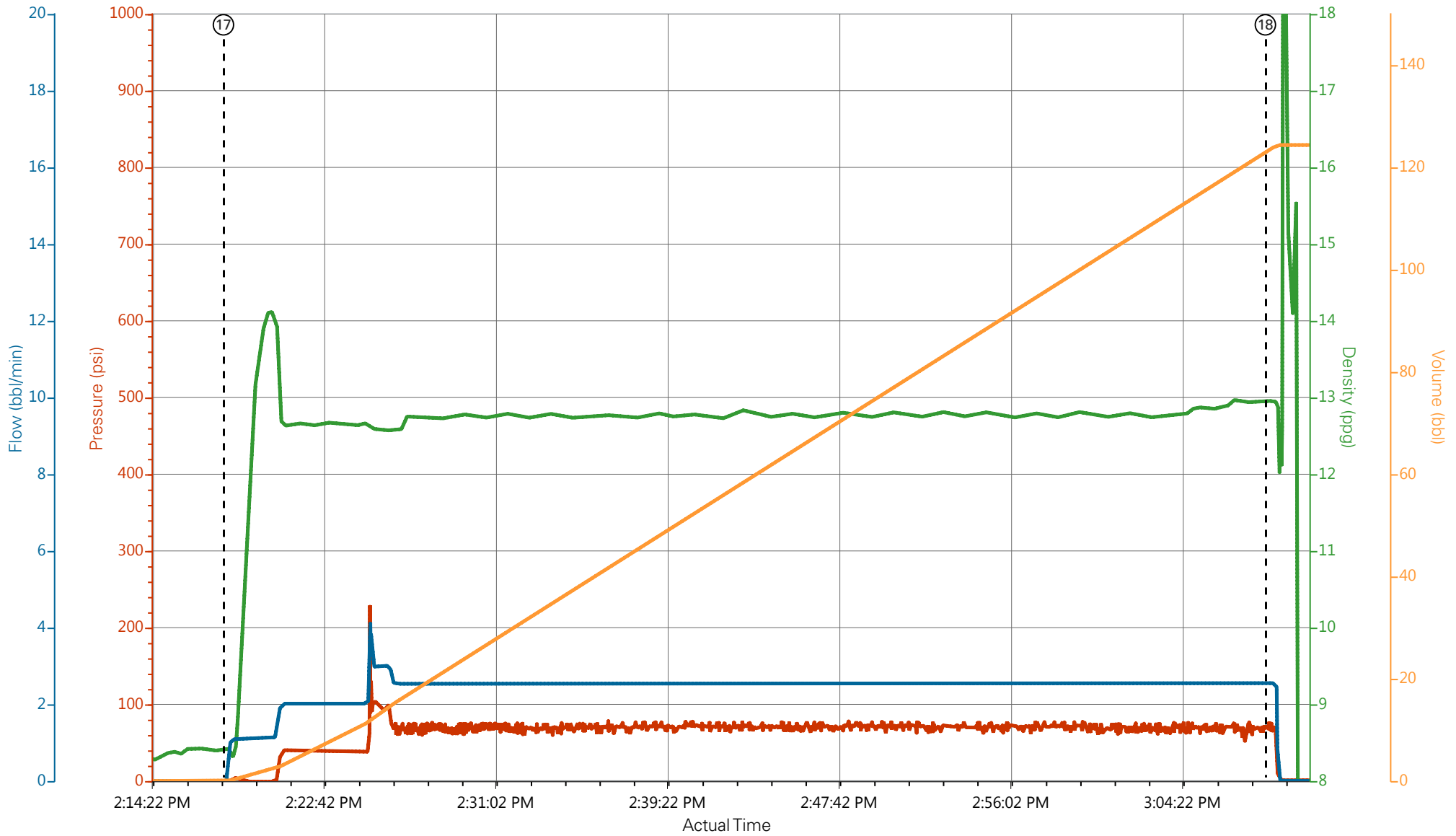
Edit

Customer : CAERUS OIL AND GAS LLC - EBUS
 Representative : WHITEY COTTAM

Job Date : 4/23/2015 4:55:14 AM
 Sales Order # : 0902343612

Well : PUCKETT 42C-2D
 ELITE 7 : JOHN KEANE / ANDREW SCHANZ

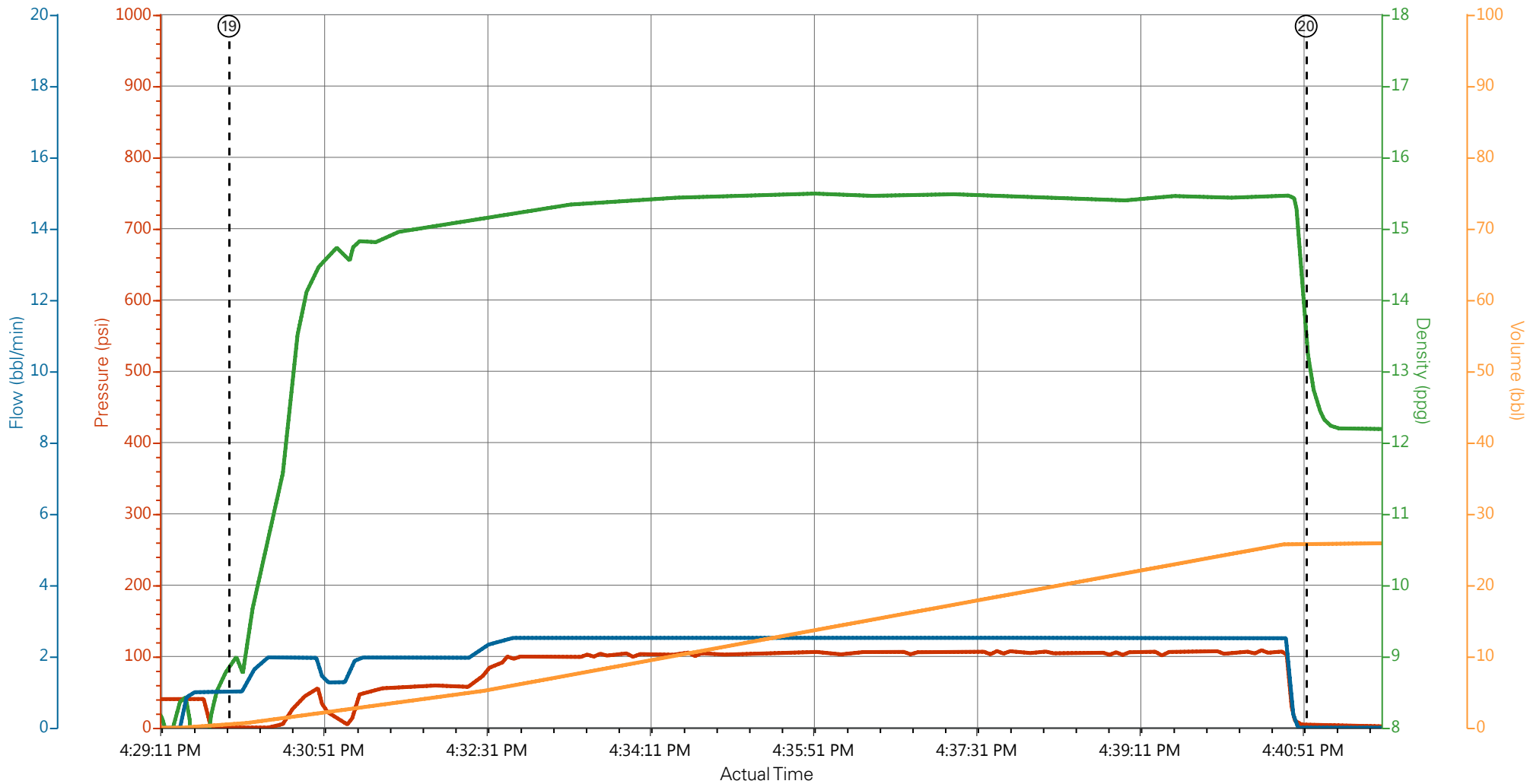
CAERUS OIL & GAS - PUCKETT 42C-2D - 9.625 IN SURFACE - TOP OUT



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

- | | | |
|--|-------------------------------------|--|
| ① Start Job n/a;n/a;n/a;n/a | ⑦ Pump Lead Cement n/a;n/a;n/a;n/a | ⑬ Slow Rate n/a;n/a;n/a;n/a |
| ② Fill Lines n/a;n/a;n/a;n/a | ⑧ Slow Rate n/a;n/a;n/a;n/a | ⑭ Bump Plug n/a;n/a;n/a;n/a |
| ③ Test Lines n/a;n/a;n/a;n/a | ⑨ Pump Tail Cement n/a;n/a;n/a;n/a | ⑮ Check Floats n/a;n/a;n/a;n/a |
| ④ Pump Fresh Water Spacer n/a;n/a;n/a;n/a | ⑩ Shutdown n/a;n/a;n/a;n/a | ⑯ Pump Through Parasite String n/a;n/a;n/a;n/a |
| ⑤ Pump Superflush 101 Spacer n/a;n/a;n/a;n/a | ⑪ Drop Top Plug n/a;n/a;n/a;n/a | ⑰ Pump Cement -4.27;8.43;0;0 |
| ⑥ Pump Fresh Water Spacer n/a;n/a;n/a;n/a | ⑫ Pump Displacement n/a;n/a;n/a;n/a | ⑱ Shutdown 77.3;12.96;2.55;123.39 |

CAERUS OIL & GAS - PUCKETT 42C-2D - 9.625 IN SURFACE - TOP OUT



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

- ① Start Job n/a;n/a;n/a;n/a
- ② Fill Lines n/a;n/a;n/a;n/a
- ③ Test Lines n/a;n/a;n/a;n/a
- ④ Pump Fresh Water Spacer n/a;n/a;n/a;n/a
- ⑤ Pump Superflush 101 Spacer n/a;n/a;n/a;n/a
- ⑥ Pump Fresh Water Spacer n/a;n/a;n/a;n/a
- ⑦ Pump Lead Cement n/a;n/a;n/a;n/a
- ⑧ Slow Rate n/a;n/a;n/a;n/a
- ⑨ Pump Tail Cement n/a;n/a;n/a;n/a
- ⑩ Shutdown n/a;n/a;n/a;n/a
- ⑪ Drop Top Plug n/a;n/a;n/a;n/a
- ⑫ Pump Displacement n/a;n/a;n/a;n/a
- ⑬ Slow Rate n/a;n/a;n/a;n/a
- ⑭ Bump Plug n/a;n/a;n/a;n/a
- ⑮ Check Floats n/a;n/a;n/a;n/a
- ⑯ Pump Through Parasite String n/a;n/a;n/a;n/a
- ⑰ Pump Cement n/a;n/a;n/a;n/a
- ⑱ Pump Cement 0.2;8.93;1.01;0.51
- ⑳ End Job 2.07;13.05;0;25.9

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Created: 2015-04-23 04:51:18, Version: 4.0.248

Edit

Customer : CAERUS OIL AND GAS LLC - EBUS
 Representative : WHITEY COTTAM

Job Date : 4/23/2015 4:55:14 AM
 Sales Order # : 0902343612

Well : PUCKETT 42C-2D
 ELITE 7 : JOHN KEANE /THOMAS PONDER

HALLIBURTON

Water Analysis Report

Company: CAERUS
Submitted by: JOHN KEANE
Attention: EVAN RUSSEL
Lease: PUCKET
Well #: 42C-2D

Date: 4/23/2015
Date Rec.: 4/23/2015
S.O.#: 902343612
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.1
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	100 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	53 Deg
Total Dissolved Solids		890 Mg / L

Respectfully: JOHN KEANE

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 use

Sales Order #: 0902343612	Line Item: 10	Survey Conducted Date: 4/24/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-17739-00
Well Name: PUCKETT		Well Number: 0080227810
Well Type: VERTICAL OIL	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	4/23/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB58526
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 #: 0902343612	Line Item: 10	Survey Conducted Date: 4/24/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-17739-00
Well Name: PUCKETT		Well Number: 0080227810
Well Type: VERTICAL OIL	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	4/24/2015
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)	12
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	6
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	6
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 #: 0902343612	Line Item: 10	Survey Conducted Date: 4/24/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-17739-00
Well Name: PUCKETT		Well Number: 0080227810
Well Type: VERTICAL OIL	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)	No
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	90
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	90
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
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