

CAERUS OIL AND GAS LLC-EBUS

PUCKETT E1-797

**H&P 330**

## **Post Job Summary**

# **Cement Surface**

Date Prepared: 8/05/2015  
Job Date: 7/31/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3666001	Quote #: 0022078878	Sales Order #: 0902629267
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: GEORGE URBAN	
Well Name: PUCKETT SWD	Well #: E1-797	API/UWI #: 05-045-22848-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 1-7S-97W-2130FNL-1323FWL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: INJECTION			
Sales Person: HALAMERICA\HB80977		Srcv Supervisor: John Keane	

**Job**

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2508ft Job Depth TVD 2508 FT
Water Depth	Wk Ht Above Floor 5 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		9.625	8.921	36	8 RD	J-55	0	2508	0	2508
Open Hole Section			14.75				0	2523	0	2523

**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		2508	Bottom Plug			
Float Collar	9.625	1		2463	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	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	10			4		

21 gal/bbl		FRESH WATER							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
3	Lead Cement	VARICEM (TM) CEMENT	375	sack	11	3.65		8	23.08
22.99 Gal		FRESH WATER							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
4	Tail Cement	VARICEM (TM) CEMENT	160	sack	12.8	2.18		8	12.11
12.11 Gal		FRESH WATER							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
5	Displacement	Displacement	190.6	bbl	8.34			7	
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
6	Super Flush 101	Super Flush 101	11	bbl	10			N/A	
21 gal/bbl		FRESH WATER							
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>	<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
7	Top Out	REVERCEM (TM) CEMENT	230	sack	12.8	2.12		2	11.15
11.11 Gal		FRESH WATER							
<b>Cement Left In Pipe</b>	<b>Amount</b>	42 ft		<b>Reason</b>				Shoe Joint	
<b>Comment</b> 3 BBL CEMENT CIRCULATED TO SURFACE ON TOP OUT JOB									

# Summary Report

Sales Order #: 0902629267  
WO #: 0902629267  
PO/AFE #: NA



Crew: \_\_\_\_\_

Job Start Date: 8/1/2015

Customer: CAERUS OIL AND GAS LLC -  
EBUS  
UWI / API Number: 05-045-22848-00  
Well Name: PUCKETT SWD  
Well No: E1-797

Field: GRAND VALLEY  
County/Parish: GARFIELD  
State: COLORADO  
Latitude: 39.475953  
Longitude: -108.173319  
Sect / Twn / Rng: 1/7/97

Job Type: CMT SURFACE  
CASING BOM  
Service Supervisor: John Keane

Cust Rep Name: GEORGE URBAN  
Cust Rep Phone #:

Remarks:		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature	Date
	Customer Representative Printed Name	

## 1.0 Real-Time Job Summary

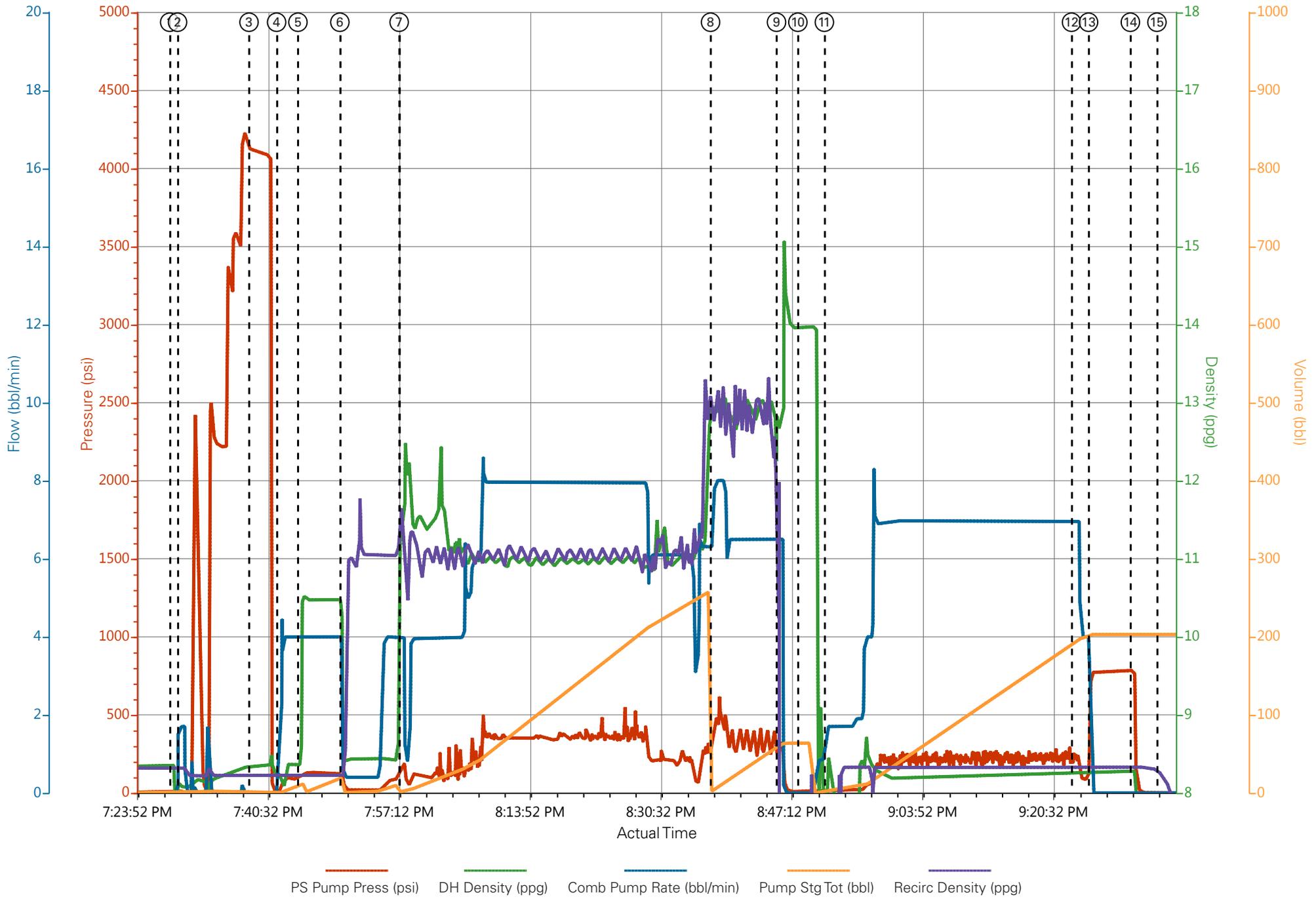
### 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press <i>(psi)</i>	Comb Pump Rate <i>(bbl/min)</i>	Pump Stg Tot <i>(bbl)</i>	Recirc Density <i>(ppg)</i>	Downhole Density <i>(ppg)</i>	Comments
Event	1	Call Out	Call Out	7/31/2015	12:00:00	USER						
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/31/2015	15:00:00	USER						WITH HES, 1 F-550 PICKUP, 1 ELITE CEMENTING UNIT, 1 LIQUID TRANSPORT, 2 660 BULK TRUCKS
Event	3	Arrive At Loc	Arrive At Loc	7/31/2015	17:30:00	USER						RIG RUNNING CASING UPON HES ARRIVAL
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/31/2015	17:40:00	USER						WITH HES
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/31/2015	17:50:00	USER						WITH HES
Event	6	Rig-Up Equipment	Rig-Up Equipment	7/31/2015	18:00:00	USER						1 LINE RAN TO THE FLOOR, 1 LINE RAN TO THE CELLAR, 1 9.625 IN QUICK-LATCH PLUG CONTAINER
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/31/2015	19:15:00	USER						WITH HES, CAERUS, AND H&P 330
Event	8	Start Job	Start Job	7/31/2015	19:28:18	USER						TD 2523 FT, TP 2508 FT, CSG 9.625 IN 36 LB/FT J-55, SHOE 42.23 FT, HOLE 14.75 IN, MWT 9.1 LB/GAL WBM
Event	9	Prime Pumps	Fill Lines	7/31/2015	19:29:18	USER	15.00	1.70	2.0	8.32	8.33	FRESH WATER
Event	10	Test Lines	Test Lines	7/31/2015	19:38:24	USER	4112.00	0.00	2.0	8.33	8.33	LOW TEST AT 2442 PSI, HIGH TEST AT 4211 PSI, PRESSURE HOLDING
Event	11	Pump Spacer	Pump Fresh Water Spacer	7/31/2015	19:41:54	USER	18.00	1.40	10.0	8.22	8.33	NO RETURNS

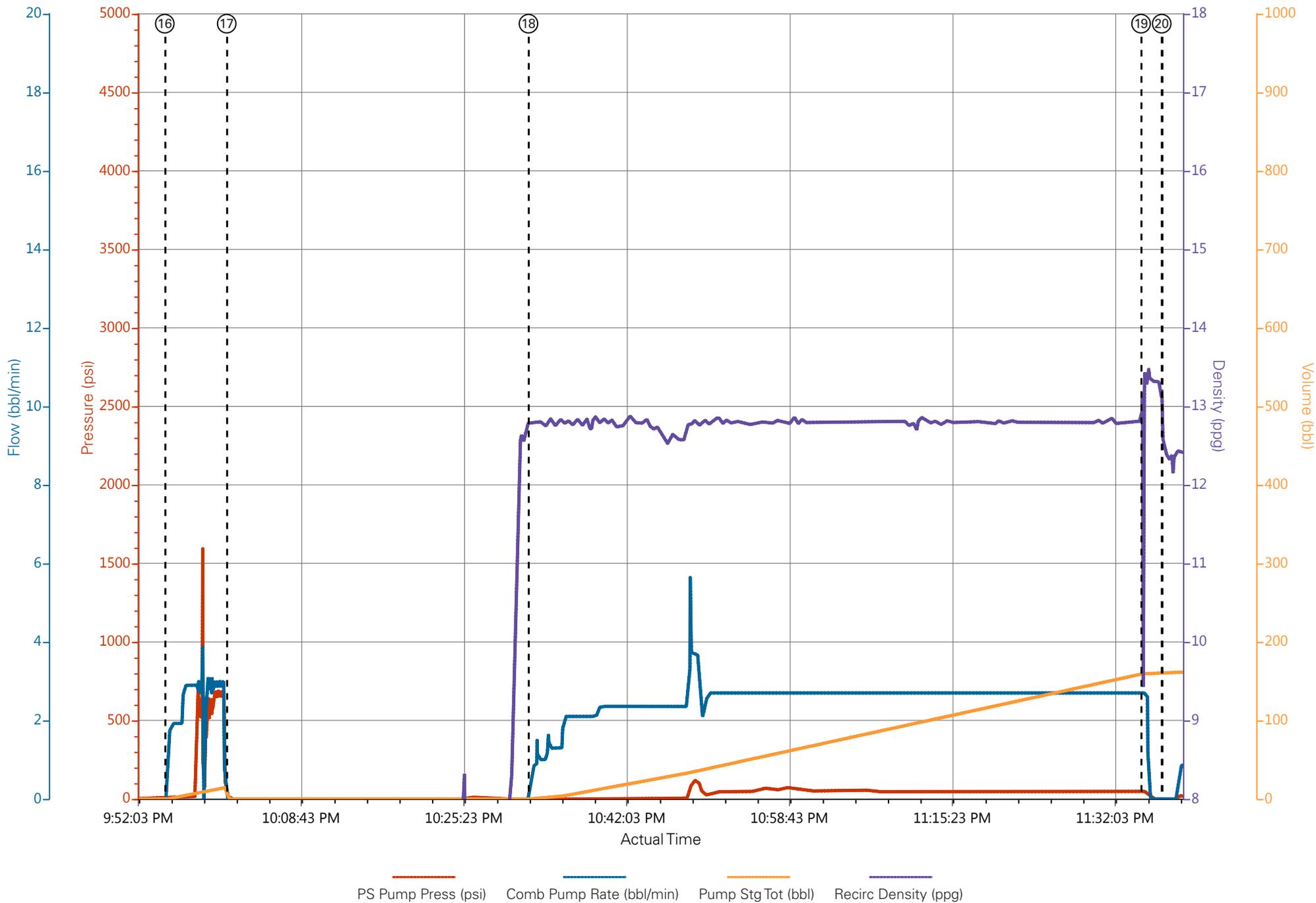
Event	12	Pump Spacer	Pump Super-Flush	7/31/2015	19:44:38	USER	118.00	4.00	10.0	8.22	8.36	SUPER-FLUSH 101
Event	13	Pump Spacer	Pump Fresh Water Spacer	7/31/2015	19:49:58	USER	82.00	0.60	10.0	8.23	8.42	
Event	14	Pump Lead Cement	Pump Lead Cement	7/31/2015	19:57:31	USER	157.00	8.00	244.0	11.00	11.00	MIXED AT 11.0 LB/GAL, 375 SKS, 3.65 FT3/SK, 23.08 GAL/SK, 81.19 LBS TUFF FIBER ADDED, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	15	Pump Tail Cement	Pump Tail Cement	7/31/2015	20:37:10	USER	404.00	8.00	62.1	12.74	12.95	MIXED AT 12.8 LB/GAL, 160 SKS 2.18 FT3/SK, 12.11 GAL/SK, DENSITY VERIFIED USING PRESURIZED MUD SCALES
Event	16	Shutdown	Shutdown	7/31/2015	20:45:34	USER	327.00	6.50	62.1	0.00	12.69	
Event	17	Drop Top Plug	Drop Top Plug	7/31/2015	20:48:17	USER	8.00	0.00	62.1	0.00	13.95	PLUG LAUNCHED
Event	18	Pump Displacement	Pump Displacement	7/31/2015	20:51:40	USER	240.00	7.00	180.0	0.00	8.42	FRESH WATER
Event	19	Slow Rate	Slow Rate	7/31/2015	21:23:09	USER	100.00	2.00	10.0	8.33	8.26	SLOWED AT 180 BBL AWAY
Event	20	Bump Plug	Bump Plug	7/31/2015	21:25:19	USER	149.00	0.00	190.6	8.33	8.27	PLUG BUMPED AT CALCULATED DISPLACEMENT
Event	21	Check Floats	Check Floats	7/31/2015	21:30:38	USER	785.00	0.00	203.0	8.33	8.29	FLOATS HOLDING, 1.5 BBL RETURNED TO THE TRUCK
Event	22	Comment	Comment	7/31/2015	21:34:01	USER	4.00	0.00	203.0	8.26	-0.04	WAITED ON CEMENT, BEFORE TOPPING OUT FOR 1 HR PER COMPANY REP
Event	23	Reverse Circ Well	Pump Through Parasite String	7/31/2015	21:55:01	USER	600	3.00	12.0	8.33	0.02	PUMPED 12 BBL WATER THROUGH THE PARASITE STRING, 20 LBS SUGAR ADDED , RETURNS AT 8 BBL AWAY
Event	24	Shutdown	Shutdown	7/31/2015	22:01:22	USER	3.00	0.00	12.0	0.00	8.32	SHUT DOWN AT 12 BBL AWAY
Event	25	Pump Cement	Pump Cement	7/31/2015	22:32:15	USER	3.00	0.80	0.0	12.83	12.80	MIXED AT 12.8 LB/GAL, 230

												SKS, 86 BBL, 2.12 FT3/SK, 11.15 GAL/SK, 11 BBL SUPER FLUSH 101 ADDED, AFTER PUMPING THE FIRST 200 SKS OF TOP OUT CEMENT
Event	26	Shutdown	Shutdown	7/31/2015	23:34:58	USER	44.00	2.70	86.00	13.22	13.06	SHUTDOWN AFTER CIRCULATING 3 BBL CEMENT TO SURFACE
Event	27	End Job	End Job	7/31/2015	23:37:05	USER	-6.00	0.00	86.00	12.48	20.42	NO CIRCULATION, PIPE WAS STATIC, NO ADD HOURS CHARGED, RIG USED 20 LB SUGAR, 3 BBL CEMENT CIRCULATED TO SURFACE ON THE TOP OUT JOB
Event	28	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/31/2015	23:43:00	USER						WITH HES
Event	29	Rig Down Lines	Rig Down Lines	7/31/2015	23:50:00	USER						
Event	30	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	8/1/2015	01:00:00	USER						WITH HES
Event	31	Crew Leave Location	Crew Leave Location	8/1/2015	01:15:00	USER						THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

# CAERUS OIL & GAS - PUCKETT SWD E1-797 - 9.625 IN SURFACE CASING



# CAERUS OIL & GAS - PUCKETT SWD E1-797 - 9.625 IN SURFACE CASING



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

# HALLIBURTON

## Water Analysis Report

Company: CAERUS  
Submitted by: JOHN KEANE  
Attention: EVAN RUSSEL  
Lease: PUCKETT SWD  
Well #: E1-797

Date: 7/31/2015  
Date Rec.: 7/31/2015  
S.O.#: 902629267  
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7.2</b>
Potassium (K)	<i>5000</i>	<b>0 Mg / L</b>
Calcium (Ca)	<i>500</i>	<b>0 Mg / L</b>
Iron (FE2)	<i>300</i>	<b>0 Mg / L</b>
Chlorides (Cl)	<i>3000</i>	<b>0 Mg / L</b>
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200 Mg / L</b>
Chlorine (Cl <sub>2</sub> )		<b>0 Mg / L</b>
Temp	<i>40-80</i>	<b>75 Deg</b>
Total Dissolved Solids		<b>470 Mg / L</b>

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

<b>Sales Order #:</b> 0902629267	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/1/2015
<b>Customer:</b> CAERUS OIL AND GAS LLC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> GEORGE URBAN		<b>API / UWI: (leave blank if unknown)</b> 05-045-22848-00
<b>Well Name:</b> PUCKETT SWD		<b>Well Number:</b> 0080730030
<b>Well Type:</b> INJECTION	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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	8/1/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB58526
Customer Participation	Did the customer participate in this survey? (Y/N)	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	

<b>CUSTOMER SIGNATURE</b>
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<b>Well Name:</b> PUCKETT SWD		<b>Well Number:</b> 0080730030
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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	8/1/2015
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	7
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Pumping Hours</b>	5
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	6
Number Of Jsas Performed	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0

<b>Sales Order #:</b> 0902629267	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/1/2015
<b>Customer:</b> CAERUS OIL AND GAS LLC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> GEORGE URBAN		<b>API / UWI: (leave blank if unknown)</b> 05-045-22848-00
<b>Well Name:</b> PUCKETT SWD		<b>Well Number:</b> 0080730030
<b>Well Type:</b> INJECTION	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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.	
<b>Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?</b> Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>If a top plug was run, was the plug bumped? (Yes/No/N/A)</b> If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
<b>If applicable, was Halliburton float equipment used? (Yes/No/N/A)</b> If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
<b>If applicable, did the floats hold? (Yes/No/N/A)</b> If applicable, did the floats hold? (Yes/No/N/A)	Yes
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	95
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	95
<b>If applicable, were there returns throughout the job? (Yes/No/N/A)</b> If applicable, were there returns throughout the job? (Yes/No/N/A)	No
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0