

Caerus Oil and Gas LLC - EBUS

Puckett 31B-1

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 9/22/2015
Job Date: 9/15/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3666000	Quote #:	Sales Order #: 0902748601
Customer: CAERUS OIL AND GAS LLC - EBUS	Customer Rep: BOYD COTTAM		
Well Name: PUCKETT	Well #: 31B-1	API/UWI #: 05-045-22853-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NW-1-7S-97W-2062FNL-1349FWL			
Contractor: H & P DRLG	Rig/Platform Name/Num: H & P 330		
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977	Srvc Supervisor: DUSTIN HYDE		
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2500ft Job Depth TVD 2533
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	3	20	19.124	94			0	128	0	0
Casing		9.625	8.921	36	8 RD (LT&C)		0	2533		0
Open Hole Section			14.75				128	2550	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625			2533		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug			
Float Collar	9.625			2488		SSR plug set			
Insert Float	9.625					Plug Container	9.625		HES
Stage Tool	9.625					Centralizers			

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/min	Total Mix Fluid Gal
3	Water	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
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	192	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	630	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/min	Total Mix Fluid Gal
8	Top Out	REVERCEM (TM) CEMENT	300	sack	12.8	2.12		3.5	11.15
11.15 Gal		FRESH WATER							
Cement Left In Pipe		Amount	46 ft			Reason		Shoe Joint	
Mix Water:			Mix Water Chloride:			Mix Water Temperature:			
Cement Temperature:			Plug Displaced by:			Disp. Temperature:			
Plug Bumped?		Yes	Bump Pressure:			Floats Held?		YES	
Cement Returns:		NO	Returns Density:			Returns Temperature:			
Comment									

1.0 Real-Time Job Summary

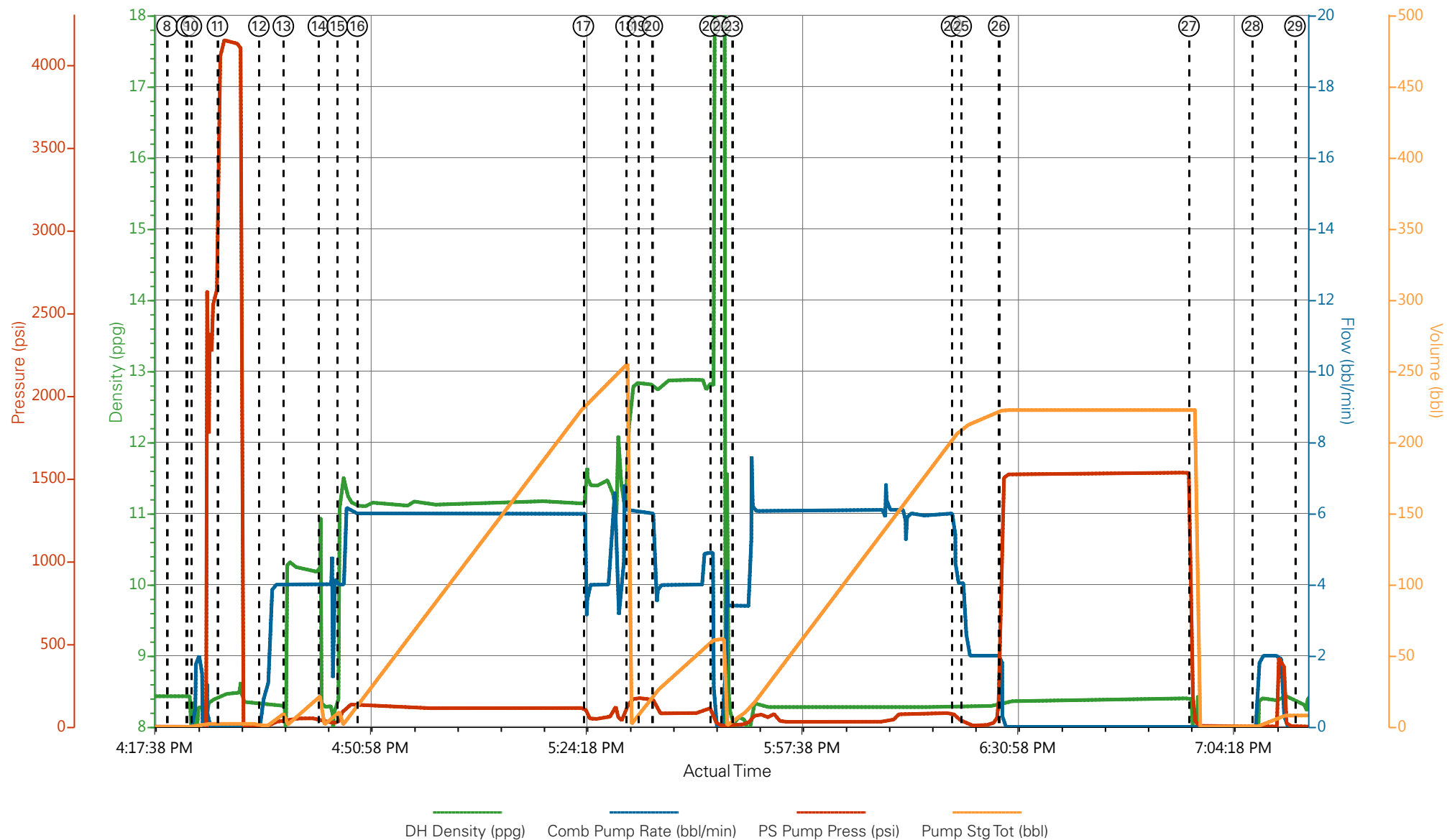
1.1 Job Event Log

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	9/15/2015	08:00:00	USER					ON LOCATION TO BE @ 1300
Event	2	Pre-Convoy Safety Meeting	9/15/2015	11:45:00	USER					ALL HES EMPLOYEES PRESENT
Event	3	Crew Leave Yard	9/15/2015	12:00:00	USER					1 660 BULK TRUCK, 1 BODY LOAD, 1 SUPER FLUSH TRANSPORT, 1 550 SERVICE PICKUP, PICKING UP 1 HT 400 PUMP TRUCK E8 IN DEBQUE
Event	4	Arrive At Loc	9/15/2015	15:00:00	USER					RIG IS RIGGING DOWN CASERS
Event	5	Assessment Of Location Safety Meeting	9/15/2015	15:15:00	USER					PERFORMED JSA AND WATER TEST
Event	6	Other	9/15/2015	15:30:00	USER					1 HT 400 PUMP TRUCK E8, 1 660 BULK TRUCK, 1 BODY LOAD, 1 SUPER FLUSH TRANSPORT, 1 550 SERVICE PICKUP
Event	7	Pre-Rig Up Safety Meeting	9/15/2015	15:45:00	USER					ALL HES EMPLOYEES PRESENT
Event	8	Pre-Job Safety Meeting	9/15/2015	16:20:00	USER					RIG HAD NO RETURNS BEFORE STARTIG CMT JOB

Event	9	Start Job	9/15/2015	16:23:00	COM6						TD 2550', TP 2533', SJ 45.18', OH 14 3/4", CSG 9 5/8" 36# J-55.
Event	10	Prime Pumps	9/15/2015	16:23:45	COM6	8.33	2.0	0	2		FRESH WATER
Event	11	Test Lines	9/15/2015	16:27:46	COM6	4147					PRESSURE HELD @ 4147 PSI
Event	12	Pump Spacer 1	9/15/2015	16:34:11	COM6	8.33	4.0	32	10		FRESH WATER
Event	13	Pump Spacer 2	9/15/2015	16:37:57	COM6	9.17	4.0	50	20		20 BBLS SUPER FLUSH 101
Event	14	Pump Spacer 1	9/15/2015	16:43:22	COM6	8.33	4.0	34	10		FRESH WATER
Event	15	Pump Lead Cement	9/15/2015	16:46:16	COM6	11.0	6.0	120	244		375 SKS OF VARICEM CMT, 11 PPG, 3.65 YIELD, 23.08 GAL/SK, 6 BOXS TUF FIBER
Event	16	Check Weight	9/15/2015	16:49:21	COM6						BALANCED MUD CUP MATCHES RECIRC DENSITY
Event	17	Slow Rate	9/15/2015	17:24:18	USER						SLOWED TO END SILO
Event	18	Pump Tail Cement	9/15/2015	17:30:54	COM6	12.8	6.0	166	62		160 SKS OF VARICEM CMT, 12.8 PPG, 2.18 YIELD, 12.11 GAL/SK
BALANCED MUD CUP MATCHES RECIRC DENSITY											
Event	19	Check Weight	9/15/2015	17:32:46	COM6						
Event	20	Slow Rate	9/15/2015	17:34:57	USER						SLOWED TO END CMT

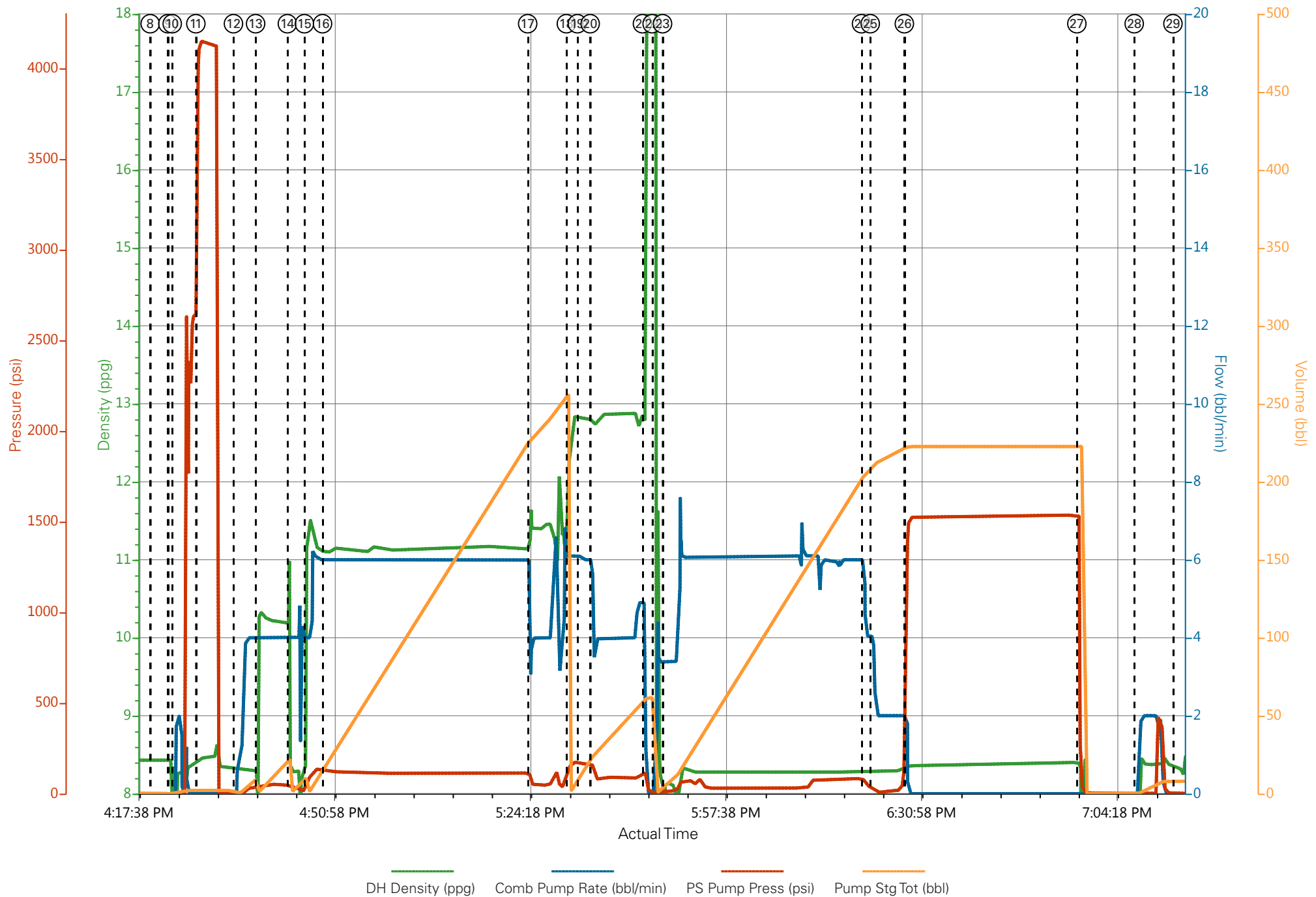
Event	21	Shutdown	9/15/2015	17:43:51	USER					END OF CMT
Event	22	Pump Displacement	9/15/2015	17:45:31	COM6	8.33	6.0	90	175	FRESH WATER
Event	23	Drop Top Plug	9/15/2015	17:47:17	COM6					VERIFIED BY TATTLE TAIL
Event	24	Slow Rate	9/15/2015	18:21:11	USER	8.33	4.0	67	7	SLOWED TO 4 BPM
Event	25	Slow Rate	9/15/2015	18:22:40	USER	8.33	2.0	40	10	SLOWED TO 2 BPM
Event	26	Bump Plug	9/15/2015	18:28:29	COM6	8.33	2.0	46	192	PLUG BUMPED BROUGHT PRESSURE UP TO 1500 PSI FOR A 30 MIN CSG TEST. NO RETURNS
Event	27	Check Floats	9/15/2015	18:57:52	USER			1534		FLOATS HELD 2 BBLS FLOW BACK
Event	28	Prime Pumps	9/15/2015	19:07:39	COM6	8.33	2.0	380	8	PUMPED 8 BBLS SUGAR WATER DOWN PARASITE USED 10 LBS SUGAR
Event	29	Other	9/15/2015	19:14:14	USER					WAITING TO DO TOPOUT

CAERUS OIL AND GAS PUCKETT 31B-1 9 5/8" SURFACE ON H&P 330



- | | | | | | |
|---|-----------------------------|--------------------|--------------------|----------------------|------------------|
| ① Call Out | ⑥ Spot Equipment | ⑪ Test Lines | ⑯ Check weight | 21 Shutdown | 26 Bump Plug |
| ② Pre-Convoy Safety Meeting | ⑦ Pre-Rig Up Safety Meeting | ⑫ Pump H2O Spacer | ⑰ Slow Rate | 22 Pump Displacement | 27 Check Floats |
| ③ Crew Leave Yard | ⑧ Pre-Job Safety Meeting | ⑬ Pump Super Flush | ⑱ Pump Tail Cement | 23 Drop Top Plug | 28 Pump Parasite |
| ④ Arrive At Loc | ⑨ Start Job | ⑭ Pump H2O Spacer | ⑲ Check weight | 24 Slow Rate | 29 Wait For Rig |
| ⑤ Assessment Of Location Safety Meeting | ⑩ PrimeLines | ⑮ Pump Lead Cement | 20 Slow Rate | 25 Slow Rate | |

CAERUS OIL AND GAS PUCKETT 31B-1 9 5/8" SURFACE ON H&P 330

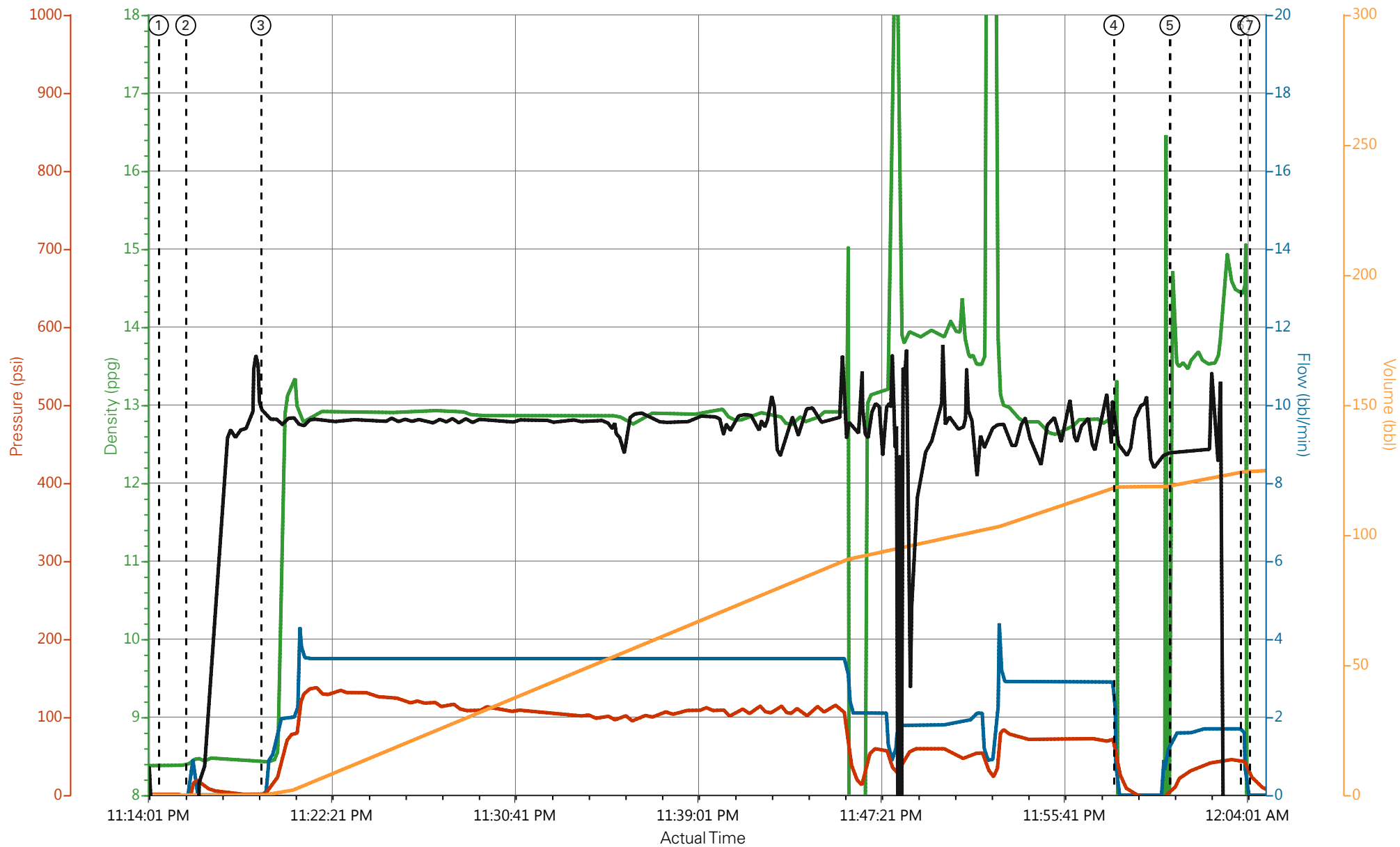


1.0 Real-Time Job Summary

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	Other	9/15/2015	23:14:36	USER					READY TO START TOPPING OUT
Event	2	Prime Pumps	9/15/2015	23:15:51	COM6	8.33	0	12	.5	BOOSTED .5 BBLS TO MAKE SURE WE HAD FLOW. SHUTDOWN AND MIXED UP A TUB
Event	3	Pump Cement	9/15/2015	23:19:16	COM6	12.8	3.5	100	106	300 SKS REVERCEM CMT, 12.8 PPG, 2.12 YIELD, 11.15 GAL / SK
Event	4	Shutdown	9/15/2015	23:58:04	USER					106 BBLS AWAY WHEN WE GOT RETURNS SHUT DOWN
Event	5	Resume	9/16/2015	00:00:37	USER	12.8	2.0	50	7	DIDN'T FALL PUMPED THE REST OF CMT INTO CELLUR
Event	6	Shutdown	9/16/2015	00:03:50	USER					PUMPED ABOUT 5 BBLS INTO CELLUR THEN PULLED OVER TO THREE SIDED TANK TO WASH UP
Event	7	End Job	9/16/2015	00:04:15	USER					USED 15 BBLS SUPERFLUSH
Event	8	Post-Job Safety Meeting (Pre Rig-Down)	9/16/2015	00:15:00	USER					ALL HES CREW PRESENT
Event	9	Rig-Down Equipment	9/16/2015	01:00:00	USER					
Event	10	Rig-Down Completed	9/16/2015	02:00:00	USER					NO INJURIES TO REPORT
Event	11	Pre-Convoy Safety Meeting	9/16/2015	02:45:00	USER					ALL HES CREW PRESENT
Event	12	Crew Leave Location	9/16/2015	03:00:00	USER					THANK YOU FOR USING HALLIBURTON CMT

CAERUS PUCKETT 31B-1 TOPOUT ON H&P 330



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

- ① Start Topout ③ Pump Cement ⑤ Resume ⑦ End Job ⑨ Rig-Down Equipment ⑪ Pre-Convoy Safety Meeting
- ② Prime Lines ④ Shutdown ⑥ Shutdown ⑧ Post-Job Safety Meeting (Pre Rig-Down) ⑩ Rig-Down Completed ⑫ Crew Leave Location

▼ HALLIBURTON | iCem® Service

Created: 2015-09-15 20:07:02, Version: 4.1.107

Edit

Customer : CAERUS OIL AND GAS LLC - EBUS

Job Date : 9/15/2015

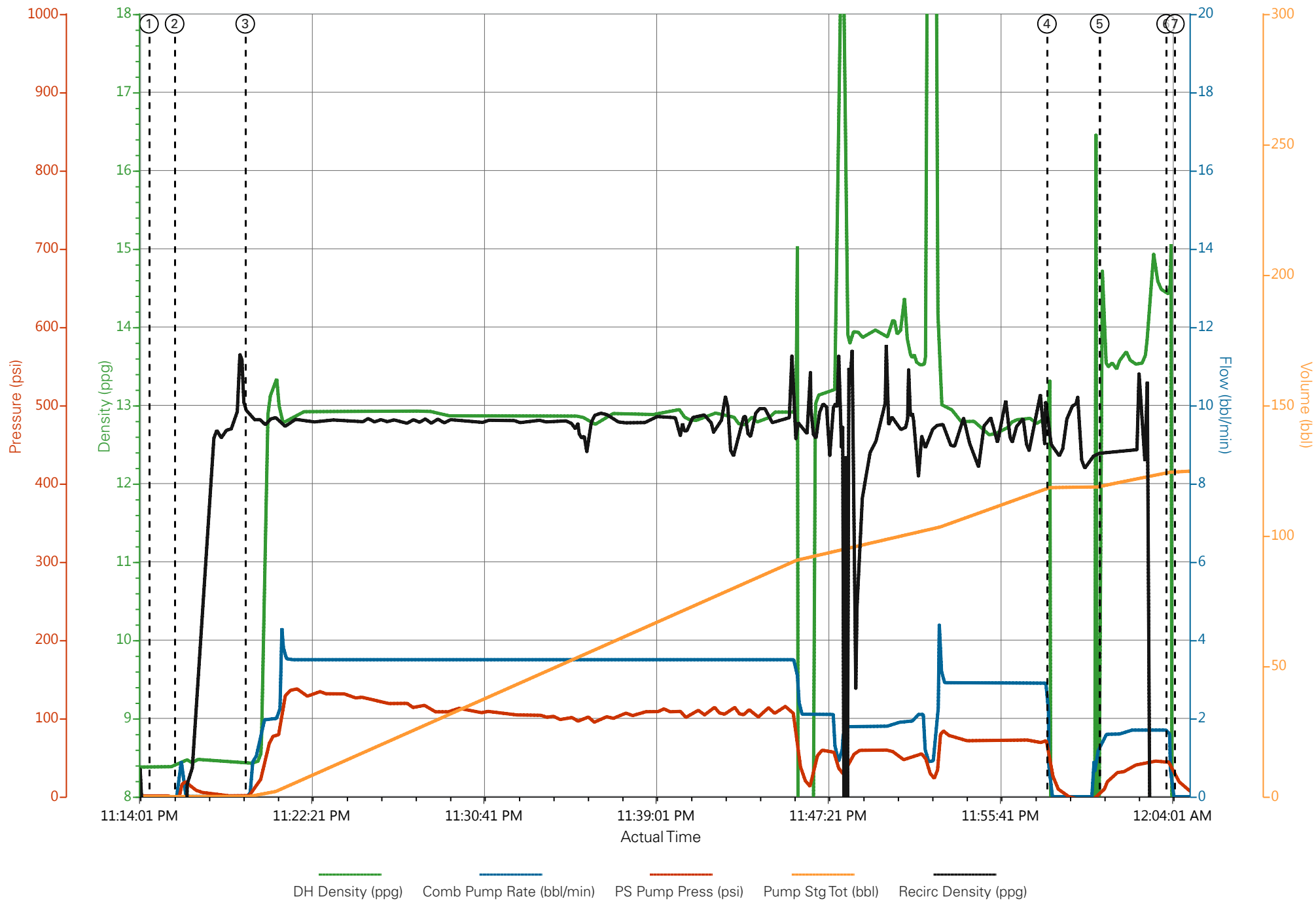
Well : PUCKETT 31B-1

Representative : BOYD COTTAM

Sales Order # : 902748601

ELITE 8 : DUSTIN HYDE / MAX LOBATO

CAERUS PUCKETT 31B-1 TOPOUT ON H&P 330



HALLIBURTON

Water Analysis Report

Company: CAERUS

Submitted by: DUSTIN HYDE

Attention:

Lease PUCKETT

Well # 33B-1

Date: 9/15/2015

Date Rec.: 9/15/2015

S.O.# 902748601

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	0
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	0 Mg / L
HARDNESS	<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
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	55 Deg
Total Dissolved Solids		420 Mg / L

Respectfully: DUSTIN HYDE

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

Sales Order #: 0902748601	Line Item: 10	Survey Conducted Date: 9/16/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22853-00
Well Name: PUCKETT		Well Number: 0080730026
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	9/16/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX19742
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 #: 0902748601	Line Item: 10	Survey Conducted Date: 9/16/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22853-00
Well Name: PUCKETT		Well Number: 0080730026
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	9/16/2015
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)	7
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	5
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

Sales Order #: 0902748601	Line Item: 10	Survey Conducted Date: 9/16/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22853-00
Well Name: PUCKETT		Well Number: 0080730026
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