

Caerus Oil and Gas LLC - EBUS

Puckett 12D-1

H&P 330

Post Job Summary

Cement Surface Casing

Date Prepared: 7/08/2015
Job Date: 6/30/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3623427	Quote #:	Sales Order #: 0902540094
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: GEORGE URBAN	
Well Name: PUCKETT		Well #: 12D-1	API/UWI #: 05-045-22619-00
Field: WILDCAT	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 2-7S-97W-2215FNL-632FEL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977		Srvc Supervisor: Thomas Ponder	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2540ft Job Depth TVD
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			0	2540		0
Open Hole Section			14.75				0	2550		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		2540	Top Plug	9.625	1	HES
Float Shoe	9.625	1			Bottom Plug	9.625		HES
Float Collar	9.625	1		2502.4	SSR plug set	9.625		HES
Insert Float	9.625	1			Plug Container	9.625	1	HES
Stage Tool	9.625	1			Centralizers	9.625		HES

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/min	Total Mix Fluid Gal
3	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
4	Lead Cement	VARICEM (TM) CEMENT	375	sack	11	3.65		8	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		8	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	193.4	bbl	8.34			8	
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	Revercem	REVERCEM (TM) CEMENT	270	sack	12.8	2.12		3	11.15
70.03 lbm		TYPE I / II CEMENT, BULK (101439798)							
30 lbm		CAL-SEAL 60, BULK (100064022)							
Cement Left In Pipe		Amount	38 ft		Reason		Shoe Joint		
Comment									

1.0 Real-Time Job Summary

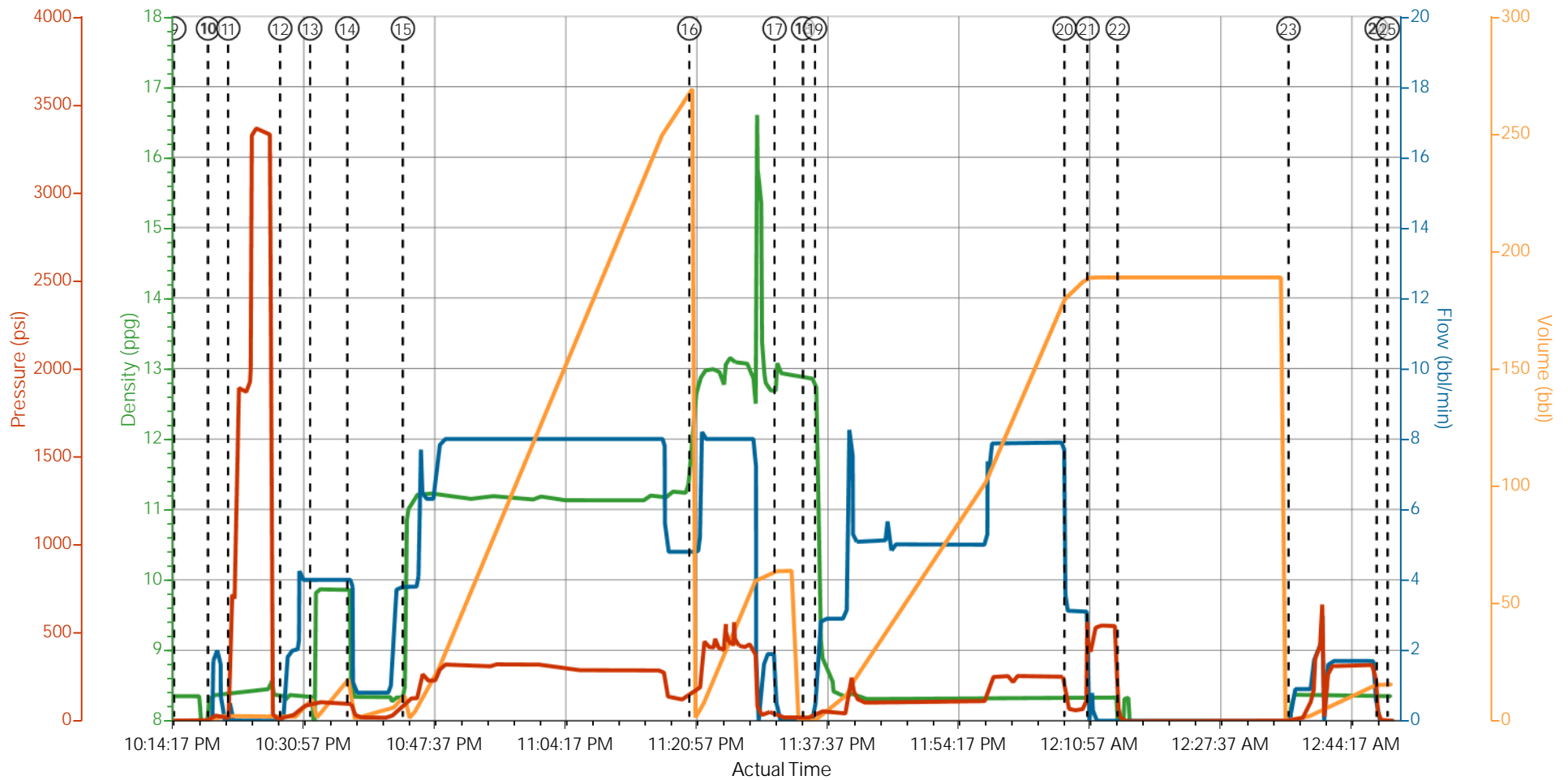
1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure <i>(psi)</i>	Downhole Density <i>(ppg)</i>	Combined Pump Rate <i>(bbl/min)</i>	Pump Stage Total <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	6/30/2015	11:00:00	USER					ON LOCATION TIME @ 1800 ON 06/30/2015
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	6/30/2015	14:15:00	USER					ALL PERSONNEL INVOLVED WITH CONVOY PRESENT FOR MEETING
Event	3	Crew Leave Yard	Crew Leave Yard	6/30/2015	14:30:00	USER					ALL VEHICLES LEFT YARD AT SAME TIME
Event	4	Arrive At Loc	Arrive At Loc	6/30/2015	17:00:00	USER					RIG WAS RUNNING CASING WHEN CREW ARRIVED ON LOCATION
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	6/30/2015	17:15:00	USER					TD - 2550', TP - 2540', SJ 37.6', MUD - 9.2 PPG, OPEN HOLE - 14 3/4", SURFACE CASING - 9 5/8" J-55
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	6/30/2015	17:30:00	USER					JSA PERFORMED
Event	7	Rig-Up Equipment	Rig- Up Equipment	6/30/2015	17:45:00	USER					1-550 PICK UP TRUCK, 1- ELITE PUMPING UNIT, 1 660 CUFT BULK TRAILER, 1 1700 CUFT STORAGE SILO, 1 9 5/8 TOP PLUG, PLUG CONTAINER, AND QUICK LATCH, 2" CIRCULATING IRON
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	6/30/2015	22:00:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM AT 2130
Event	9	Start Job	Start Job	6/30/2015	22:15:00	USER					RIG UP FROM STANDPIPE

TO PLUG CONTAINER											
Event	10	Prime Pumps	Prime Pumps	6/30/2015	22:19:16	COM7	8.33	2	30	2	FILL LINES WITH FRESH WATER
Event	11	Test Lines	Test Lines	6/30/2015	22:21:52	COM7		.1	3371	.1	GOOD PRESSUE TEST NO LEAK IN LINES
Event	12	Pump Spacer 1	Pump Spacer 1	6/30/2015	22:28:29	COM7	8.33	4	34	10	FRESH WATER
Event	13	Pump Spacer 2	Pump Spacer 2	6/30/2015	22:32:17	COM7	10.0	4	107	20	SUPER FLUSH 101
Event	14	Pump Spacer 1	Pump Spacer 1	6/30/2015	22:37:00	COM7	8.33	4	72	10	FRESH WATER WEIGHED UP FIRST 8 BARRELS OF CEMENT
Event	15	Pump Lead Cement	Pump Lead Cement	6/30/2015	22:44:05	COM7	11.0	8	325	243.8	375 SKS 11.0 PPG 3.65 FT3/SK 23.08 GAL/SK 90# TUFF FIBER
Event	16	Pump Tail Cement	Pump Tail Cement	6/30/2015	23:20:31	COM7	12.8	8	450	62.1	160 SKS 12.8 PPG 2.18 FT3/SK 12.1 GAL/SK
Event	17	Shutdown	Shutdown	6/30/2015	23:31:22	USER					
Event	18	Drop Top Plug	Drop Top Plug	6/30/2015	23:34:59	USER					PLUG DROPPED VERIFIED BY TATTLE TALE VERIFIED BY DRILLER
Event	19	Pump Displacement	Pump Displacement	6/30/2015	23:36:29	COM7	8.33	8	255	183.4	FRESH WATER, WASHED UP ON TOP OF PLUG WITH FIRST 10 BBLs OF WATER
Event	20	Slow Rate	Slow Rate	7/1/2015	00:08:15	USER	8.33	3	63	10	NO RETURNS THROUGHOUT THE JOB
Event	21	Bump Plug	Bump Plug	7/1/2015	00:11:10	COM7		3	70	193.4	PLUG BUMPED
Event	22	Check Floats	Check Floats	7/1/2015	00:15:00	USER			571		FLOATS HELD, 1 BBL BACK TO THE DISPLACEMENT TANKS
Event	23	Pump Water	Pump Water	7/1/2015	00:36:44	USER	8.33	2	400	20	PUMPED 20 BBL OF SUGAR WATER THROUGH PARASITE STRING WITH 20# OF SUGAR

Event	24	Shutdown	Shutdown	7/1/2015	00:47:57	USER						
Event	25	End Job	End Job	7/1/2015	00:49:22	COM7						WAIT ON CEMENT FOR 2 HOURS AS PER CO REP REQUEST BEFORE TOPPING OUT
Event	26	Start Job	Start Job	7/1/2015	03:35:43	COM7						RIG UP SUPER FLUSH AND IRON TO WELL HEAD FOR TOP OUT
Event	27	Pump Cement	Pump Cement	7/1/2015	03:41:35	COM7	12.8	3	87	102		270 SKS 12.8 PPG 2.12 FT3/SK 11.15 GAL/SK 15 BBLs OF SUPER FLUSH
Event	28	Pump Water	Pump Water	7/1/2015	04:19:53	USER	8.33	2	50	5		FRESH WATER 1GALLON OF MMCR
Event	29	Shutdown	Shutdown	7/1/2015	04:22:12	USER						CIRCULATED 2 BBLs OF CEMENT TO SURFACE
Event	30	End Job	End Job	7/1/2015	04:25:00	COM7						THANK YOU FOR CHOOSING HALLIBURTON THOMAS PONDER AND CREW

CAERUS - PUCKETT 12D-1 - 9.625 IN SURFACE



- | | | | | |
|---|--------------------------|--------------------|---------------------|------------|
| • Call Out | • Rig- Up Equipment | • Pump Spacer 2 | • Pump Displacement | 25 End Job |
| • Pre-Convoy Safety Meeting | • Pre-Job Safety Meeting | • Pump Spacer 1 | 20 Slow Rate | |
| • Crew Leave Yard | • Start Job | • Pump Lead Cement | 21 Bump Plug | |
| • Arrive At Loc | • Prime Pumps | • Pump Tail Cement | 22 Check Floats | |
| • Assessment Of Location Safety Meeting | • Test Lines | • Shutdown | 23 Pump Water | |
| • Pre-Rig Up Safety Meeting | • Pump Spacer 1 | • Drop Top Plug | 24 Shutdown | |

▼ HALLIBURTON | iCem® Service

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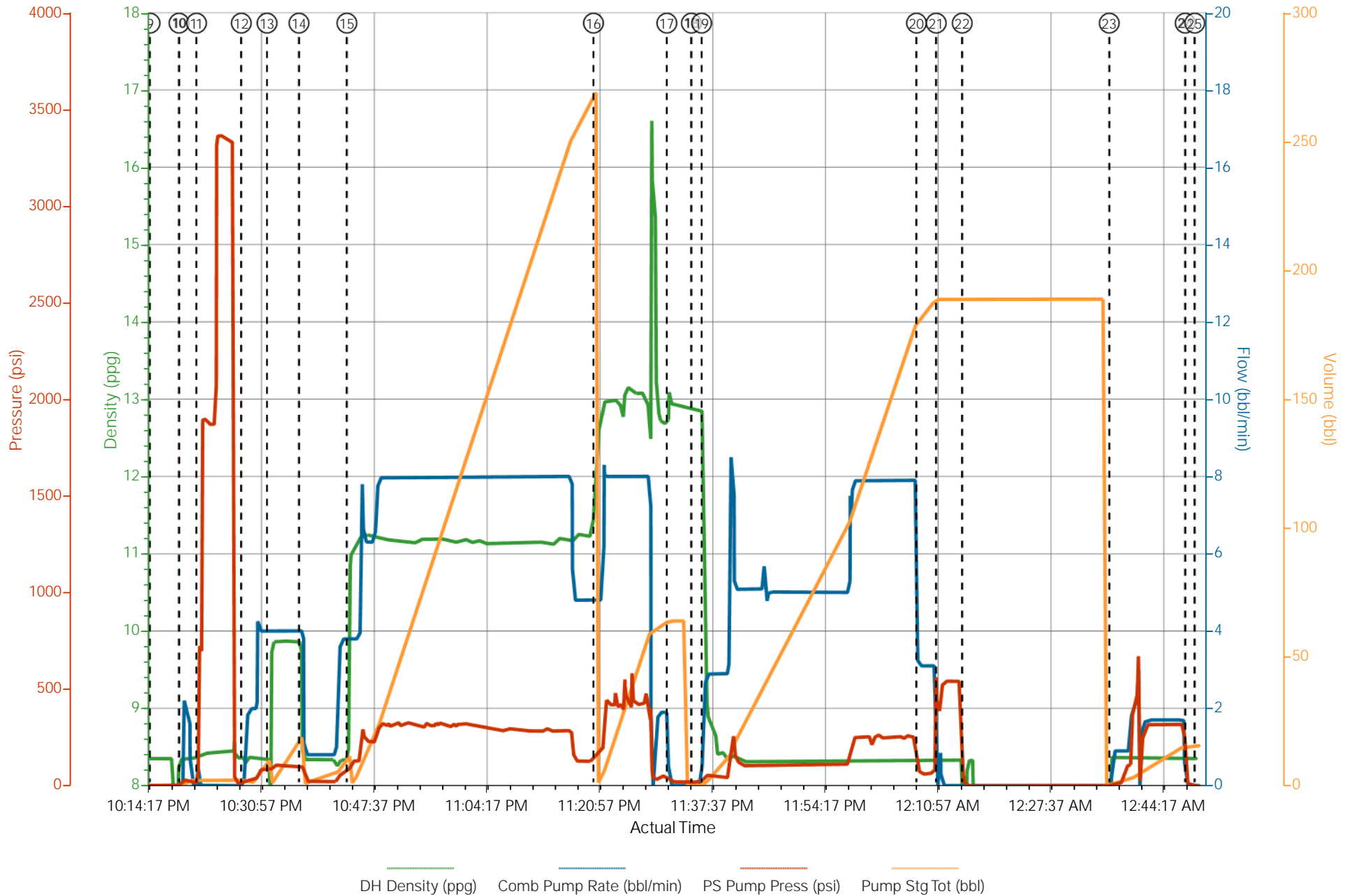
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Customer : CAERUS OIL AND GAS LLC - EBUS
Representative : THOMAS PONDER

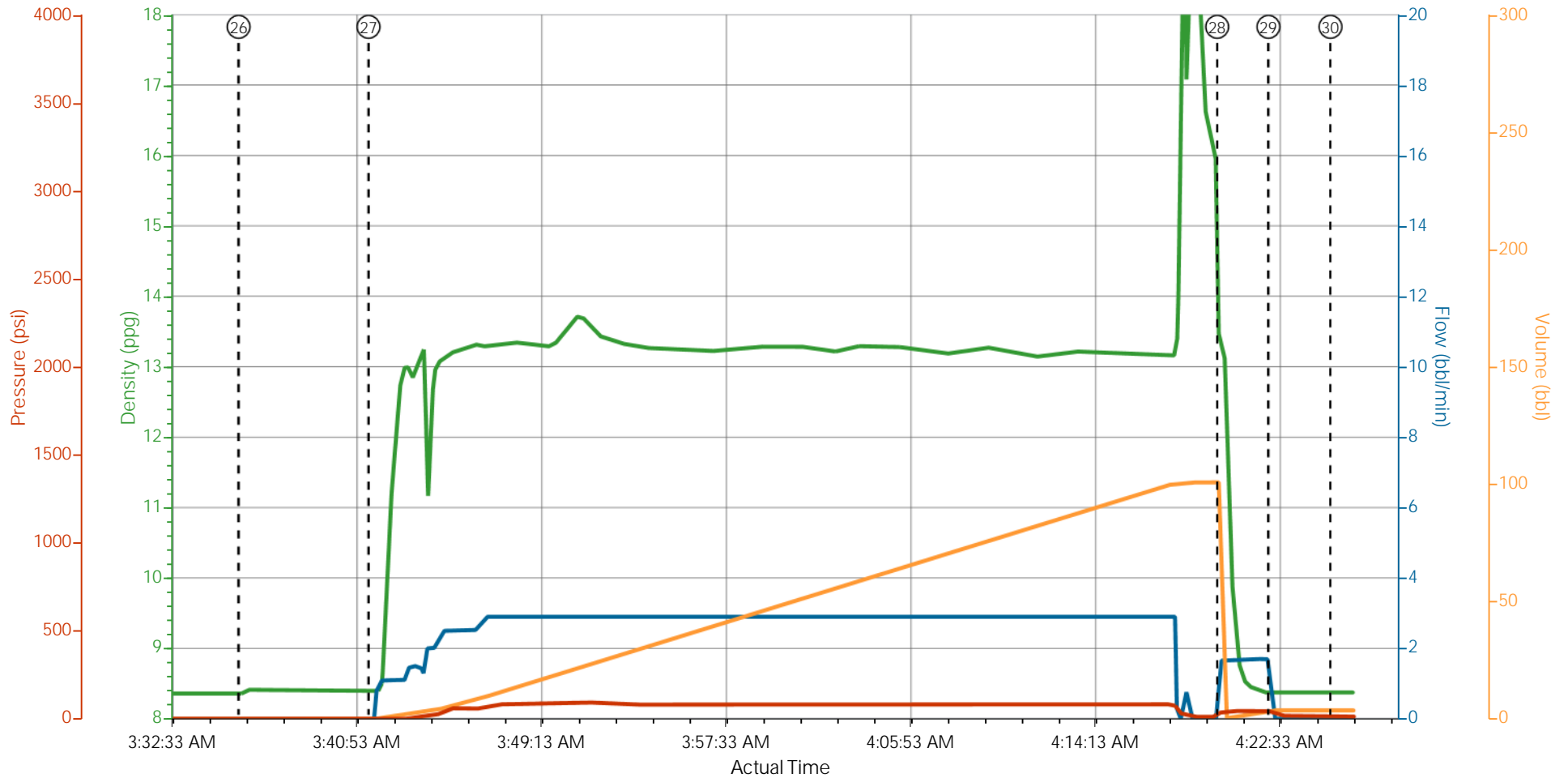
Job Date : 6/30/2015 9:00:49 PM
Sales Order # : 902540094

Well : PUCKETT 12D-1
ELITE #6 : JOHN KENDALL / THOMAS PONDER

CAERUS - PUCKETT 12D-1 - 9.625 IN SURFACE



CAERUS - PUCKETT 12D-1 - TOP OUT



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

- | | | | | |
|---|--------------------------|--------------------|---------------------|----------------|
| • Call Out | • Rig- Up Equipment | • Pump Spacer 2 | • Pump Displacement | 25 End Job |
| • Pre-Convoy Safety Meeting | • Pre-Job Safety Meeting | • Pump Spacer 1 | 20 Slow Rate | 26 Start Job |
| • Crew Leave Yard | • Start Job | • Pump Lead Cement | 21 Bump Plug | 27 Pump Cement |
| • Arrive At Loc | • Prime Pumps | • Pump Tail Cement | 22 Check Floats | 28 Pump Water |
| • Assessment Of Location Safety Meeting | • Test Lines | • Shutdown | 23 Pump Water | 29 Shutdown |
| • Pre-Rig Up Safety Meeting | • Pump Spacer 1 | • Drop Top Plug | 24 Shutdown | 30 End Job |

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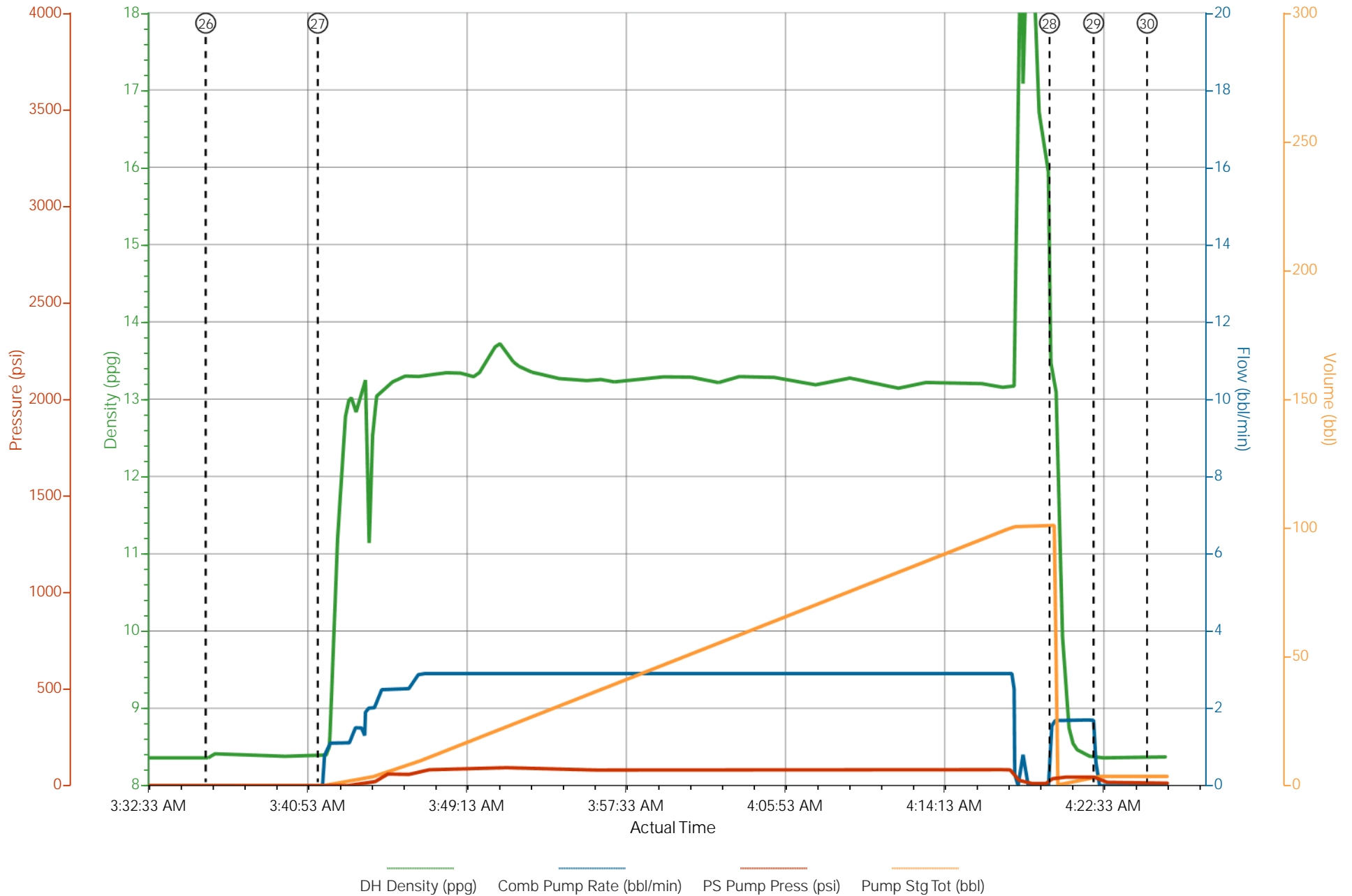
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Representative : THOMAS PONDER

Job Date : 6/30/2015 9:00:49 PM
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Well : PUCKETT 12D-1
ELITE #6: JOHN KENDALL / THOMAS PONDER

CAERUS - PUCKETT 12D-1 - TOP OUT



HALLIBURTON

Company:	<u>CAERUS</u>	Date:	<u>6/30/2015</u>
Submitted by:	<u>THOMAS PONDER</u>	Date Rec.:	<u>6/30/2015</u>
Attention:	<u>LARRY COOKSEY</u>	S.O.#	<u>902540094</u>
Lease	<u>PUCKETT</u>	Job Type:	<u>SURFACE</u>
Well #	<u>12D-1</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>0</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Carbonates hardness		
Temp	<i>40-80</i>	<i>74.6</i> Deg
Total Dissolved Solids		<i>185</i> Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 0902540094	Line Item: 10	Survey Conducted Date: 7/1/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22619-00
Well Name: PUCKETT		Well Number: 0080702250
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	7/1/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
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 #: 0902540094	Line Item: 10	Survey Conducted Date: 7/1/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22619-00
Well Name: PUCKETT		Well Number: 0080702250
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	7/1/2015
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	Deviated
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?	No
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	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 #: 0902540094	Line Item: 10	Survey Conducted Date: 7/1/2015
Customer: CAERUS OIL AND GAS LLC - EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22619-00
Well Name: PUCKETT		Well Number: 0080702250
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)	No
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Not Available
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	99
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	99
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