

Caerus Oil and Gas LLC- EBUS

Puckett 13B-1

**H&P 330**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 7/27/2015  
Job Date: 07/25/2015

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 360446	Ship To #: 3665982	Quote #: 0022079487	Sales Order #: 0902609275
Customer: CAERUS OIL AND GAS LLC - EBUS		Customer Rep: GEORGE URBAN	
Well Name: PUCKETT	Well #: 13B-1	API/UWI #: 05-045-22862-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NW-1-7S-97W-2125FNL-1314FWL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 330	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977		Srcv Supervisor: Steven Wardell	

### Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2497ft Job Depth TVD
Water Depth	Wk Ht Above Floor 4ft
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	2497		0
Open Hole Section			14.75				0	2520		0

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625			2497	Top Plug	9.625	1	HES
Float Shoe	9.625				Bottom Plug	9.625		
Float Collar	9.625				SSR plug set	9.625		
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		

### 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							

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3	Lead Cement	VARICEM (TM) CEMENT	375	sack	11	3.65		8	23.08																																																		
23.08 Gal		FRESH WATER																																																									
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4	Tail Cement	VARICEM (TM) CEMENT	160	sack	12.8	2.18		8	12.11																																																		
12.11 Gal		FRESH WATER																																																									
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5	Displacement	Displacement	189.7	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																																																		
6	Super Flush 101	Super Flush 101	5	bbl	9.17			1																																																			
21 gal/bbl		FRESH WATER																																																									
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7	Top Out	REVERCEM (TM) CEMENT	300	sack	12.8	2.12		3	11.15																																																		
11.15 Gal		FRESH WATER																																																									
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## 1.0 Real-Time Job Summary

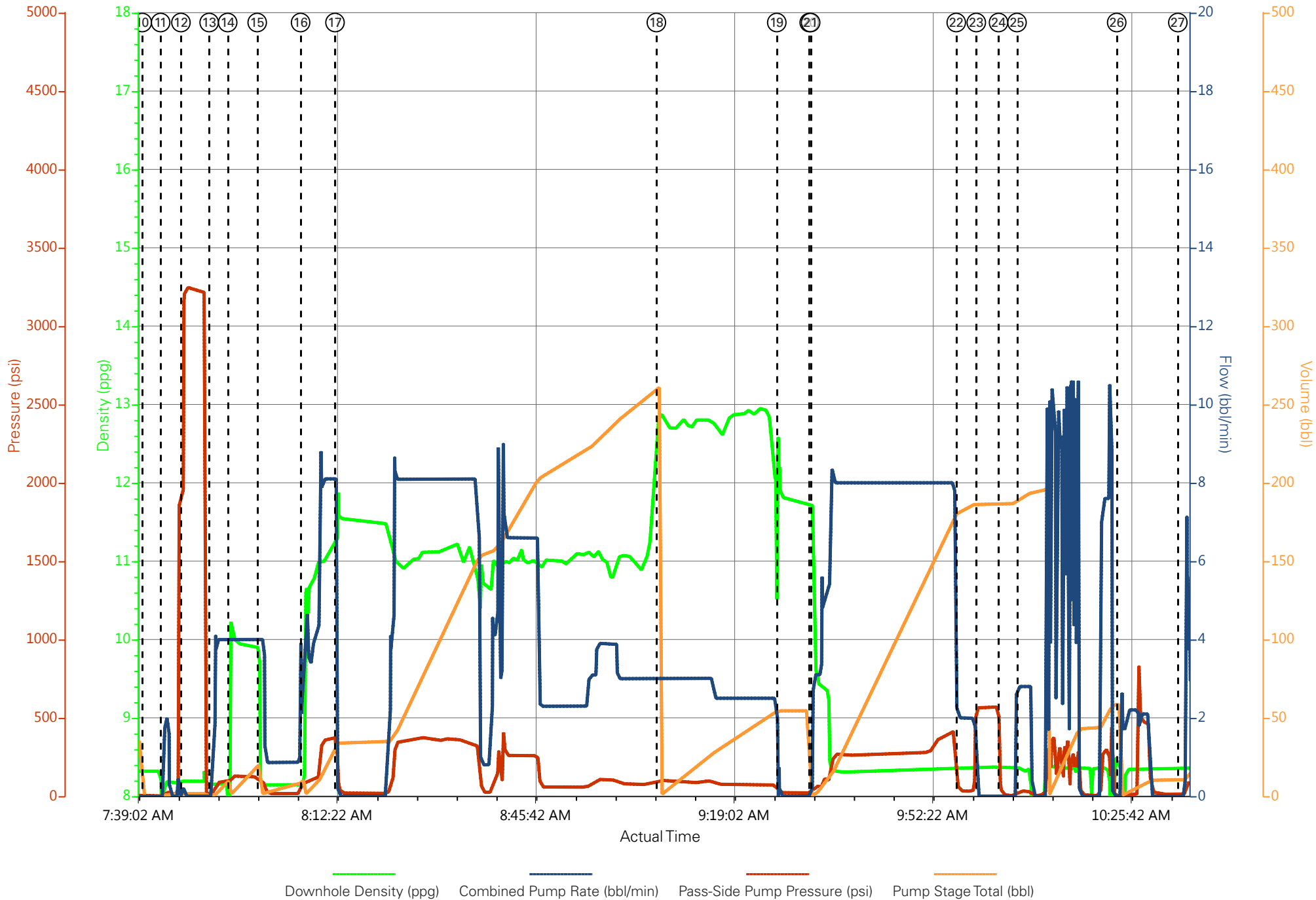
### 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Downhole Density <i>(ppg)</i>	Pass-Side Pump Pressure <i>(psi)</i>	Combined Pump Rate <i>(bbl/min)</i>	Pump Stage Total <i>(bbl)</i>	Comments
Event	1	Call Out	Call Out	7/25/2015	00:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/25/2015	02:45:00	USER					WITH ALL HES PERSONNEL
Event	3	Crew Leave Yard	Crew Leave Yard	7/25/2015	03:00:00	USER					
Event	4	Arrive At Loc	Arrive At Loc	7/25/2015	05:00:00	USER					
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/25/2015	05:10:00	USER					WITH ALL HES PERSONNEL
Event	6	Other	Spot Equipment	7/25/2015	05:20:00	USER					1 PUMP, 2 BULK TRUCKS, 1 SUPERFLUSH TRUCK
Event	7	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/25/2015	05:30:00	USER					WITH ALL HES PERSONNEL
Event	8	Rig-Up Equipment	Rig-Up Equipment	7/25/2015	05:40:00	USER					
Event	9	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/25/2015	07:00:00	USER					WITH ALL PERSONNEL
Event	10	Start Job	Start Job	7/25/2015	07:40:08	COM6					TD 2520 FT, TP 2497 FT, SJ 42.52 FT, CSG 9 5/8 IN 36 LB/FT, OH 14 3/4 IN, MUD WT 8.8 PPG
Event	11	Prime Pumps	Prime Lines	7/25/2015	07:43:13	COM6	8.4	20.0	2.0	2.0	FRESH WATER
Event	12	Test Lines	Test Lines	7/25/2015	07:46:38	COM6					TESTED LINES TO 3220 PSI, PRESSURE HOLDING
Event	13	Pump Spacer 1	Pump Water Spacer	7/25/2015	07:51:22	COM6	8.4	20.0	4.0	10.0	10 BBL FRESH WATER
Event	14	Pump Spacer 2	Pump Super Flush	7/25/2015	07:54:28	COM6	10.24	25.0	4.0	20.0	20 BBL SUPERFLUSH
Event	15	Pump Spacer 1	Pump Water Spacer	7/25/2015	07:59:26	COM6	8.4	20.0	2.0	10.0	10 BBL FRESH WATER

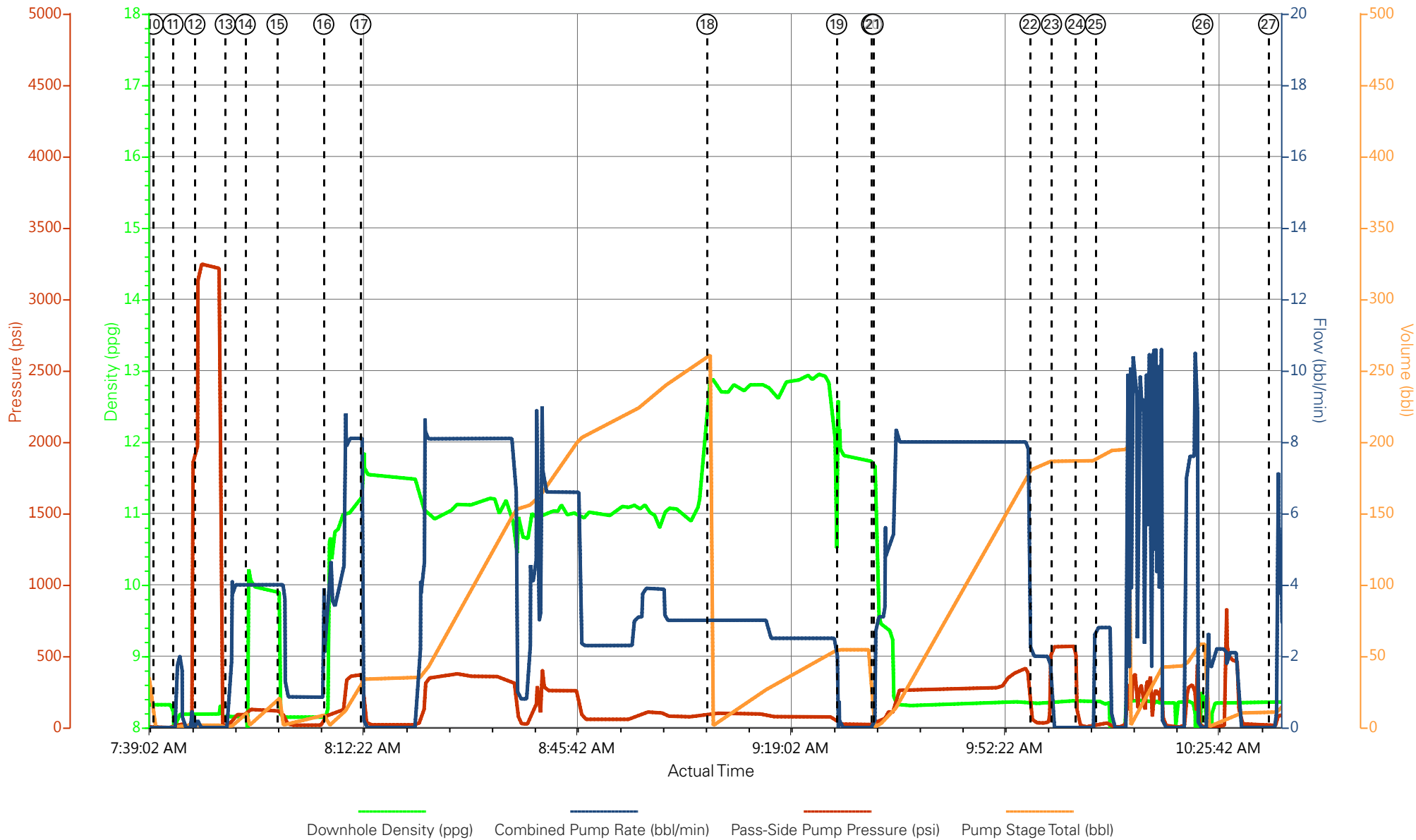
Event	16	Pump Lead Cement	Pump Lead Cement	7/25/2015	08:06:43	COM6	11.0	360.0	8.0	243.8	375 SKS, 11.0 PPG, 3.65 FT3/SK, 23.08 GAL/SK, WITH 90 LBS TUFF FIBER
Event	17	Shutdown	Shutdown	7/25/2015	08:12:29	USER					SHUTDOWN DUE TO WELLHEAD LEAK
Event	18	Pump Tail Cement	Pump Tail Cement	7/25/2015	09:06:26	COM6	12.8	85.0	4.0	62.1	160 SKS, 12.8 PPG, 2.18 FT3/SK, 12.11 GAL/SK
Event	19	Shutdown	Shutdown	7/25/2015	09:26:39	USER					
Event	20	Drop Top Plug	Drop Top Plug	7/25/2015	09:32:06	USER					PLUG LAUNCHED
Event	21	Pump Displacement	Pump Displacement	7/25/2015	09:32:20	COM6	8.4	380.0	8.0	189.7	FRESH WATER
Event	22	Slow Rate	Slow Rate	7/25/2015	09:56:46	USER	8.4	60.0	2.0	179.7	SLOWED RATE 10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Event	23	Bump Plug	Bump Plug	7/25/2015	10:00:08	COM6		568.0			
Event	24	Check Floats	Check Floats	7/25/2015	10:03:53	USER		569.0			FLOATS HOLDING, HES RETURNED 1 BBL BACK TO PUMP
Event	25	Clean Lines	Clean Lines	7/25/2015	10:06:58	USER					CLEANED PUMPS AND LINES TO THREE SIDED TANK
Event	26	Pump Spacer 1	Pump Sugar Water	7/25/2015	10:23:43	COM6	8.4	830.0	2.0	10.0	10BBLS SUGAR WATER TO CLEAR PARASITE LINE, BREAK PSI 830
Event	27	End Job	End Job	7/25/2015	10:33:59	COM6					PIPE WAS STATIC THROUGHOUT JOB, NO RETURNS DURING JOB, HES USED 10 LBS SUGAR
Event	28	Start Job	Start Job	7/25/2015	12:36:35	COM6					
Event	29	Pump Spacer 1	Pump Water Ahead	7/25/2015	12:37:00	COM6	8.4	40.0	2.0	2.0	PUMPED 2 BBL FRESH WATER AHEAD
Event	30	Pump Cement	Pump Annular Fill Cement	7/25/2015	12:42:36	COM6	12.8	150.0	3.0	84.6	224 SKS, 12.8 PPG, 2.12 FT3/SK, 11.15 GAL/SK, STARTED SUPERFLUSH AT

											150 SKS AWAY, PUMPED 5 BBLs OF SUPERFLUSH
Event	31	Shutdown	Shutdown	7/25/2015	13:08:27	USER					HES RETURNED 1 BBL OF CEMENT TO SURFACE
Event	32	Other	Pump Water Behind	7/25/2015	13:08:57	COM6	8.4	40.0	2.0	2.0	PUMPED 2 BBLs FRESH WATER TO CLEAN LINES
Event	33	End Job	End Job	7/25/2015	13:12:58	COM6					
Event	34	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/25/2015	13:20:00	USER					WITH ALL HES PERSONNEL
Event	35	Rig-Down Equipment	Rig-Down Equipment	7/25/2015	13:30:00	USER					
Event	36	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/25/2015	15:00:00	USER					WITH ALL HES PERSONNEL
Event	37	Crew Leave Location	Crew Leave Location	7/25/2015	15:10:00	USER					
Event	38	Comment	Comment	7/25/2015	15:15:00	USER					THANK YOU FOR CHOOSING HALLIBURTON CEMENT DEPARTMENT, STEVEN WARDELL AND CREW.

# CAERUS PUCKETT 13B-1 SURFACE 902609275



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

**HALLIBURTON** | iCem® Service

Created: 2015-07-25 01:57:42, Version: 4.1.107

Edit

Customer: CAERUS OIL AND GAS LLC - EBUS

Job Date: 7/25/2015 6:31:38 AM

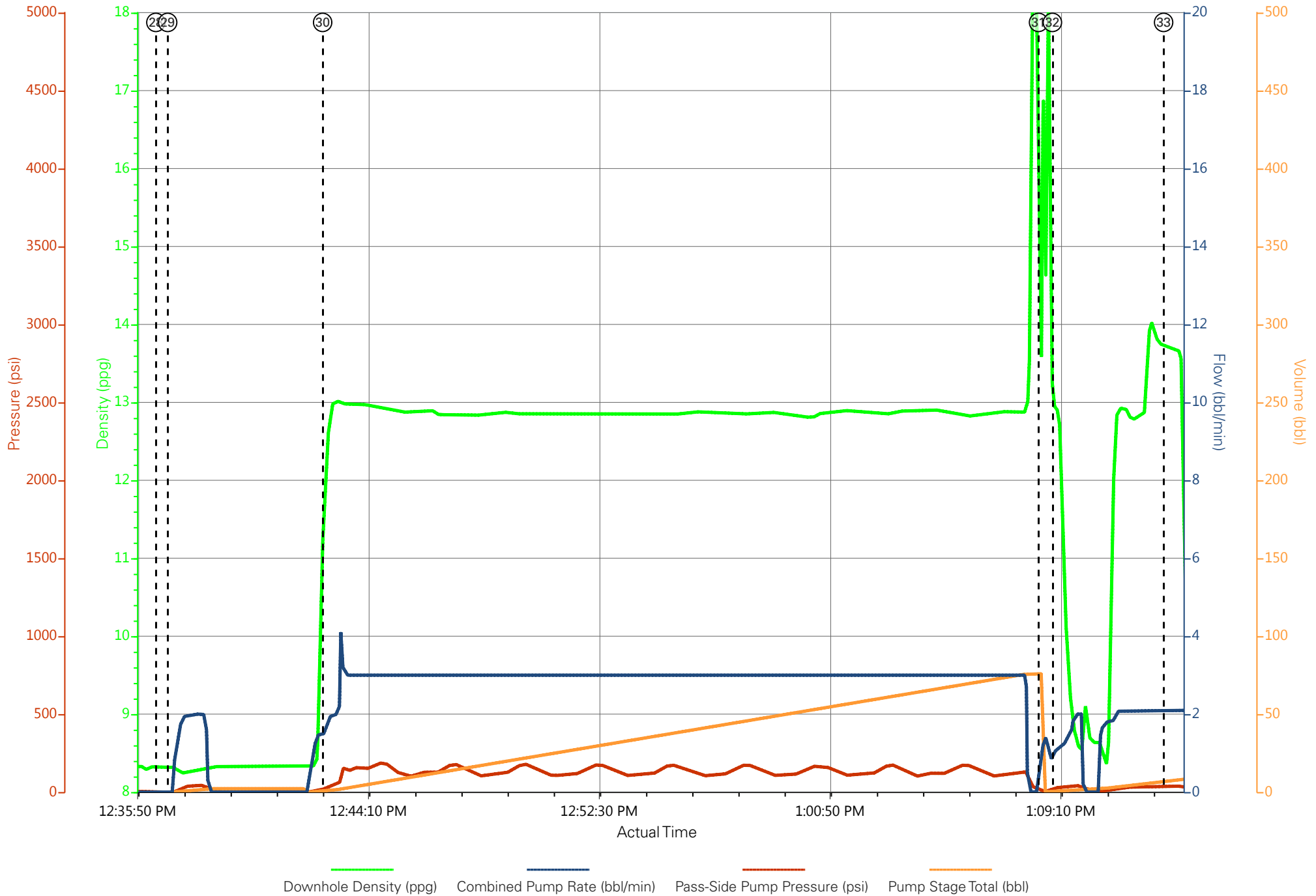
Well: PUCKETT 13B-1

Representative: STEVEN WARDELL

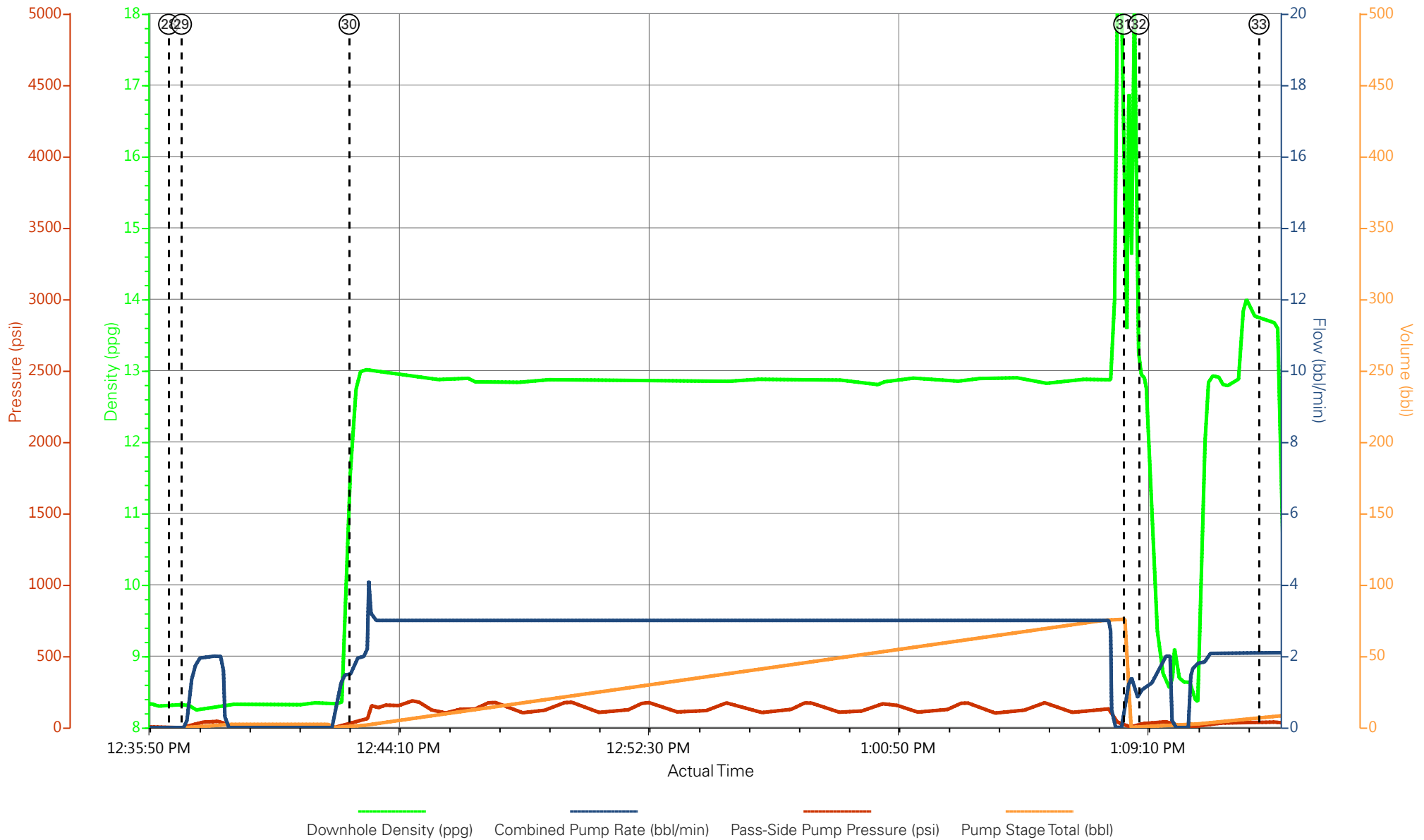
Sales Order #: 902609275

ELITE #1: WARDELL / MARTIN

CAERUS PUCKETT 13B-1SURFACE 902609275



# CAERUS PUCKETT 13B-1SURFACE 902609275



- |                             |   |                          |                     |                    |                      |                     |
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HALLIBURTON | iCem® Service
Created: 2015-07-25 01:57:42, Version: 4.1.107 [Edit](#)

<b>Sales Order #:</b> 0902609275	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 7/26/2015
<b>Customer:</b> CAERUS OIL AND GAS LLC - EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> 05-045-22862-00
<b>Well Name:</b> PUCKETT		<b>Well Number:</b> 0080729639
<b>Well Type:</b> DIRECTIONAL GAS	<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	7/26/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	H127209
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	

<b>CUSTOMER SIGNATURE</b>
---------------------------

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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	7/26/2015
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>	Deviated
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>	8
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>	6
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>	8
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>	1
Unplanned shutdown is when injection stops for any period of time.	
<b>Reason For Unplanned Shutdown</b>	LEAKING WELL HEAD

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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

Reason For Unplanned Shutdowns (after Starting To Pump)	
<b>Customer Non-Productive Rig Time (hrs)</b> 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.	0
<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	94
<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	94
<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