

CAERUS OIL AND GAS LLC - EBUS

Nolte 43B-14

**Patterson 303**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 04/20/2014

Submitted by: Grand Junction Cement Engineering

## The Road to Excellence Starts with Safety

Sold To #: 360446		Ship To #: 3280219		Quote #:		Sales Order #: 0901270990	
Customer: CAERUS OIL AND GAS LLC - EBUS				Customer Rep: WHITEY COTTAM			
Well Name: NOLTE			Well #: 43B-14			API/UWI #: 05-045-22309-00	
Field: GRAND VALLEY		City (SAP): PAR		County/Parish: GARFIELD		State: COLORADO	
Legal Description: SE SE-14-7S-96W-796FSL-356FEL							
Contractor:				Rig/Platform Name/Num: PATERSON 303			
Job BOM: 7521							
Well Type: DIRECTIONAL GAS							
Sales Person: HALAMERICA\H105431				Srvc Supervisor: John Keane			
Job							

Formation Name	
Formation Depth (MD)	Top
Form Type	BHST
Job depth MD	1004ft
Water Depth	Wk Ht Above Floor 5
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	16	15.124	75			0	72	0	72
Casing		9.625	8.921	36	LTC	J-55	0	1004		1004
Open Hole Section			13.5				72	1013	72	1013

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1004		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625	1		952		SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					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 Spacer	Fresh Water Spacer	20	bbl	8.34			2		
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	Tail Cement	VERSACEM (TM) SYSTEM	265	sack	12.8	2.18		8	12.11
12.07 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	Displacement	Displacement	76.3	bbl	8.34			10	
Cement Left In Pipe		Amount	52 ft		Reason		Shoe Joint		
Comment									

# Summary Report



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

Job Start Date: 4/17/2014

Sales Order #: 0901270990  
WO #: 0901270990  
PO/AFE #: na

Customer: CAERUS OIL AND GAS LLC -  
EBUS

UWI / API Number: 05-045-22309-00

Well Name: NOLTE

Well No: 43B-14

Field: GRAND VALLEY

County/Parish: GARFIELD

State: COLORADO

Latitude: 39.432348

Longitude: -108.069226

Sect / Twn / Rng: 14/7/96

Job Type: CMT SURFACE  
CASING BOM

Service Supervisor: John Keane

Cust Rep Name: WHITEY COTTAM

Cust Rep Phone #:

**Remarks:**

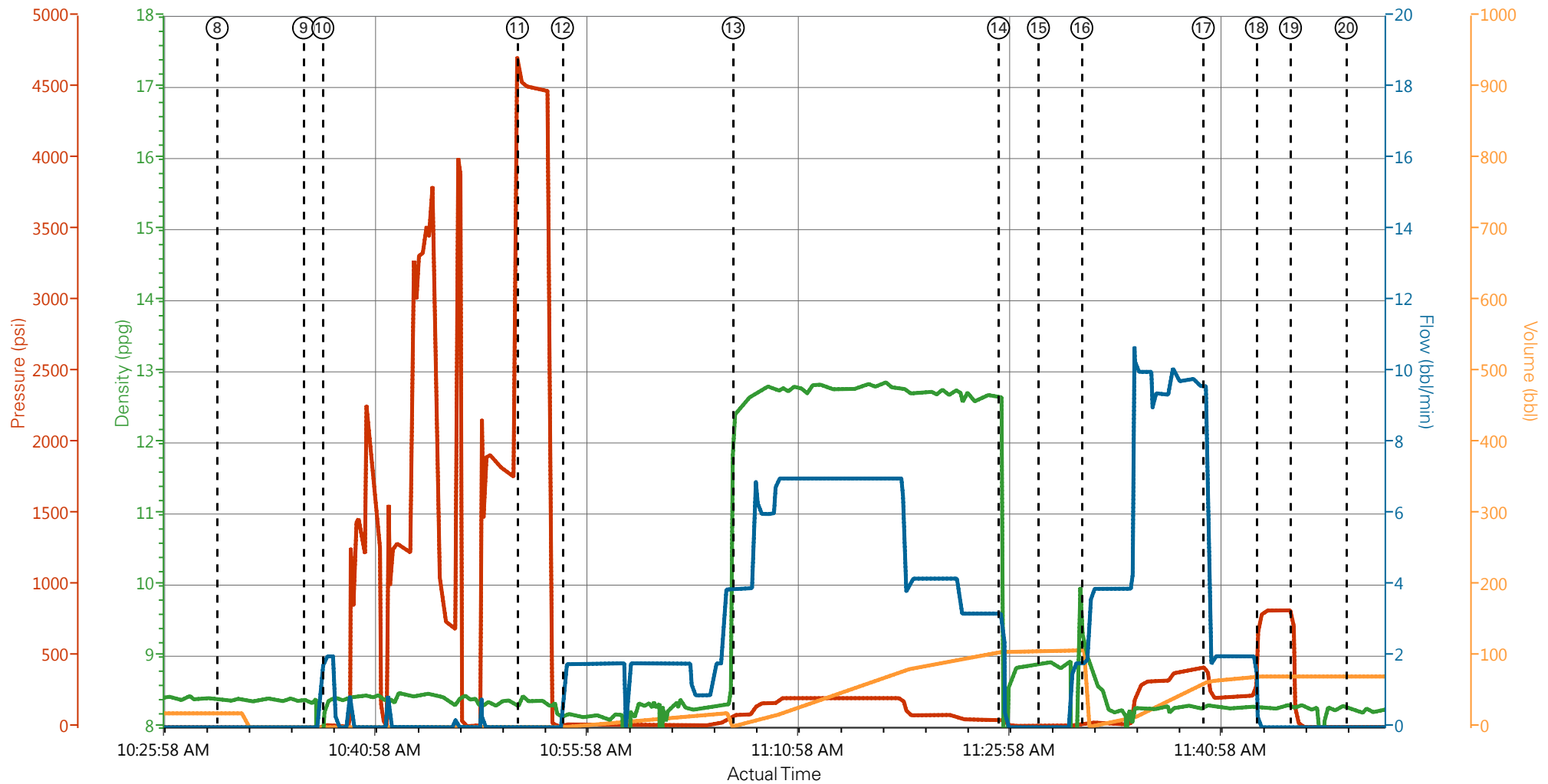
<b>The Information Stated Herein Is Correct</b>	Customer Representative Signature	Date
	Customer Representative Printed Name	

## 3.5 Job Event Log

Type	Seq. No.	Graph Label/Activity	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comment
Event	1	Call Out	4/17/2014	05:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	4/17/2014	07:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	4/17/2014	08:00:00	USER					
Event	4	Arrive At Loc	4/17/2014	09:00:00	USER					RIG ON BOTTOM WITH CASING CIRCULATING
Event	5	Assesment of Location Safety Meeting	4/17/2014	09:10:00	USER					WITH HES
Event	6	Pre-Rig Up Safety Meeting	4/17/2014	09:20:00	USER					WITH HES
Event	7	Rig-Up Equipment	4/17/2014	09:30:00	USER					
Event	8	Pre-Job Safety Meeting	4/17/2014	10:30:00	USER					WITH HES, CAERUS, AND PATERSON 303
Event	9	Start Job	4/17/2014	10:36:07	COM5					TD 1013 FT, SHOE SET AT 1004 FT, HOLE 13.5 IN, CSG 9.625 IN 36 LB/FT J-55, SHOE 51.83 FT, MWT 9.9 LB/GAL
Event	10	Prime Pumps	4/17/2014	10:37:29	USER	21.00	8.36	2.00	2	FILL LINES
Event	11	Test Lines	4/17/2014	10:51:18	COM5	4545.00	8.49	0.10	2.2	LOW TEST AT 1275 PSI, HIGH TEST AT 4500 PSI, PRESSURE HOLDING
Event	12	Pump Fresh Water Spacer	4/17/2014	10:54:30	COM5	26.00	8.21	2.00	20	FRESH WATER, RETURNS AT 1 BBL AWAY
Event	13	Pump Tail Cement	4/17/2014	11:06:37	COM5	210.00	12.8	7.00	102.3	MIXED AT 12.8 LB/GAL, 265SKS, 2.18FT3/SK, 12.11GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	14	Shutdown	4/17/2014	11:25:27	USER	55.00	12.68	3.20	102.3	
Event	15	Drop Top Plug	4/17/2014	11:28:16	USER	11.00	8.89	0.00	102.3	PLUG LAUNCHED
Event	16	Pump Displacement	4/17/2014	11:31:21	COM5	426.00	8.33	10.00	63.8	FRESH WATER
Event	17	Slow Rate	4/17/2014	11:39:58	USER	230.00	8.26	2.00	63.8	SLOWED AT 64 BBL AWAY
Event	18	Bump Plug	4/17/2014	11:43:45	USER	228.00	8.26	2.00	73.6	PLUG BUMPED AT CALCULATED DISPLACEMENT
Event	19	Check Floats	4/17/2014	11:46:10	USER	774.00	8.30	0.00	73.6	FLOATS HOLDING, .5 BBL RETURNED TO THE TRUCK
Event	20	End Job	4/17/2014	11:50:07	COM5					GOOD CIRCULATION, PIPE WAS STATICE, 30 BBL CEMENT CIRCULATED TO SURFAC, RIG USED 80 LBS OF

						SUGAR, NO ADD HOURS CHARGED, NO DERRICK CHARGE
Event	21	Pre-Rig Down Safety Meeting	4/17/2014	12:00:00	USER	WITH HES
Event	22	Rig-Down Equipment	4/17/2014	12:10:00	USER	
Event	23	Pre-Convoy Safety Meeting	4/17/2014	12:40:00	USER	WIITH HES
Event	24	Crew Leave Location	4/17/2014	12:45:00	USER	
Event	25	Comment	4/17/2014	12:46:00	USER	THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

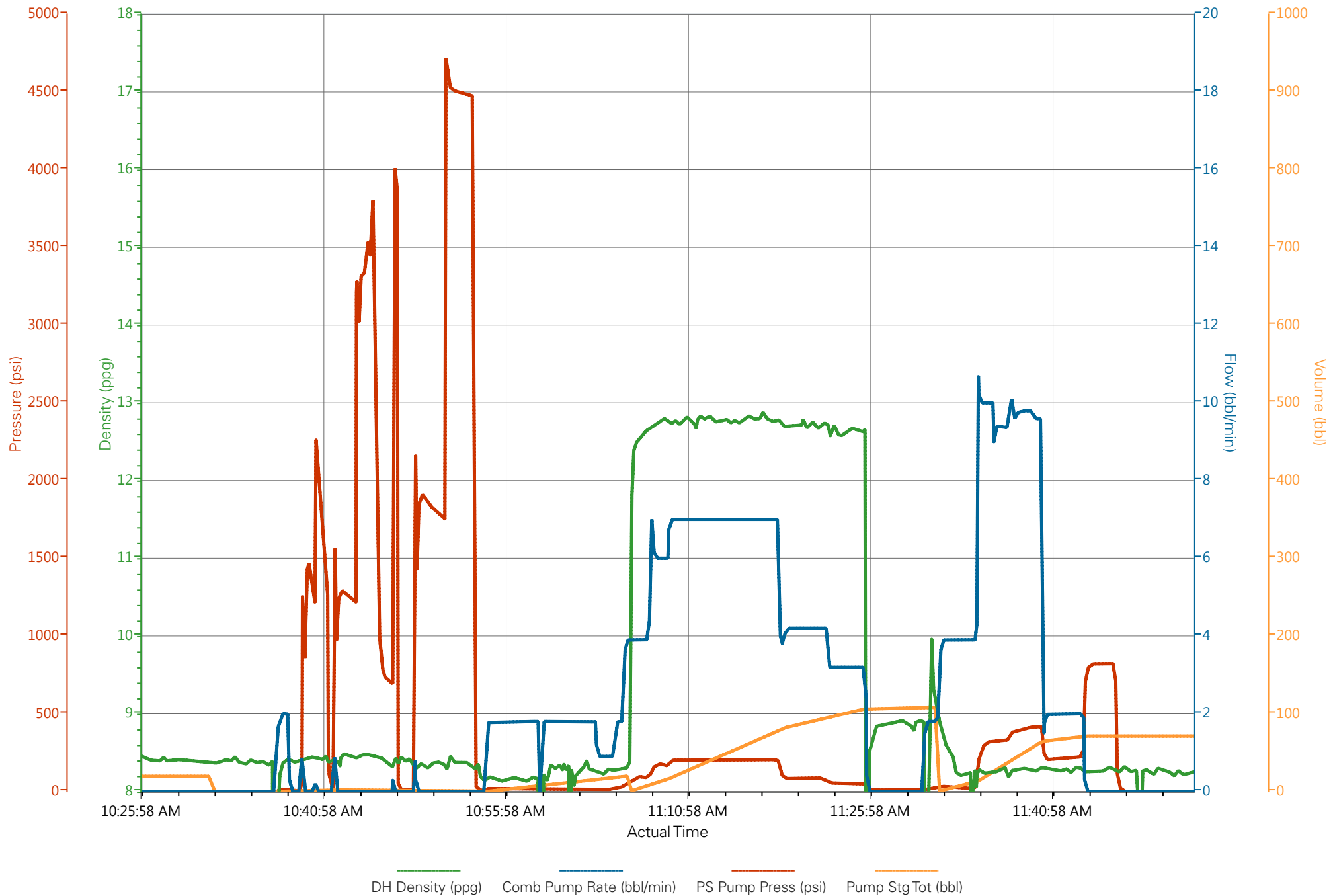
# CAERUS - NOLTE 43B-14 - 9.625" SURFACE



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

① Call Out n/a;n/a;n/a;n/a	⑧ Pre-Job Safety Meeting 8.41;0;1;19.6	⑮ Drop Top Plug 8.89;0;11;106.6	22 Rig-Down Equipment -0.12;0;1;71.4
② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a	⑨ Start Job 8.37;0;0;0	⑯ Pump Displacement 9.18;1.8;18;108.5	23 Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑩ Prime Pumps 8.36;2;21;0.8	⑰ Slow Rate 8.26;9.5;426;63.8	24 Crew Leave Location n/a;n/a;n/a;n/a
④ Arrive At Loc n/a;n/a;n/a;n/a	⑪ Test Lines 8.49;0.1;4545;2.2	⑱ Bump Plug 8.26;0;770;71.4	25 Comment n/a;n/a;n/a;n/a
⑤ Assesment of Location Safety Meeting n/a;n/a;n/a;n/a	⑫ Pump Fresh Water Spacer 8.21;1.7;26;0.4	⑲ Check Floats 8.3;0;309;71.4	
⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑬ Pump Tail Cement 12.49;3.9;92;2.4	20 End Job 8.25;0;2;71.4	
⑦ Rig-Up Equipment n/a;n/a;n/a;n/a	⑭ Shutdown 12.68;3.2;55;106.1	21 Pre-Rig Down Safety Meeting 8.25;0;3;71.4	

# CAERUS - NOLTE 43B-14 - 9.625" SURFACE





# HALLIBURTON

## Water Analysis Report

Company: CAERUS

Submitted by: JOHN KEANE

Attention: CHUCK ROSS

Lease NOLTE

Well # 43B-14

Date: 4/18/2014

Date Rec.: 4/18/2014

S.O.# 901270990

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7.1</b>
Potassium (K)	<i>5000</i>	<b>250</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>125</b> Mg / L
Iron (FE2)	<i>300</i>	<b>0</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>500</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>60</b> Deg
Total Dissolved Solids		<b>300</b> 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

<b>Sales Order #:</b> 0901270990	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/18/2014
<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> 05-045-22309-00
<b>Well Name:</b> NOLTE		<b>Well Number:</b> 80361729
<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	4/18/2014
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	

<b>CUSTOMER SIGNATURE</b>
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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	4/18/2014
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>	4
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>Operating Hours (Pumping Hours)</b>	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	0
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>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>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

<b>Sales Order #:</b> 0901270990	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/18/2014
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<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

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<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	90
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<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	90
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<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