

Piceance Energy LLC - EBUS

Piceance 28-08M

Patterson 306

Post Job Summary

Cement Production Casing

Date Prepared: 07/30/2015
Job Date: 07/27/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 344919	Ship To #: 3672953	Quote #:	Sales Order #: 0902611014
Customer: PICEANCE ENERGY LLC - EBUS	Customer Rep: MATT SETTLES		
Well Name: PICEANCE	Well #: 28-08M	API/UWI #: 05-077-10245-00	
Field: VEGA	City (SAP): COLLBRAN	County/Parish: MESA	State: COLORADO
Legal Description: SW NW-28-9S-93W-1606FNL-1250FWL			
Contractor: PATTERSON-UTI ENERGY	Rig/Platform Name/Num: PATTERSON 306		
Job BOM: 7523			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HX41066	Srvs Supervisor: John Keane		

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	8043ft Job Depth TVD 8043 FT
Water Depth	Wk Ht Above Floor 4 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		8.625	7.921	32	8 RD	J-55	0	1569	0	1569
Casing		4.5	4	11.6	8 RD	P-110	0	8043	0	8043
Open Hole Section			7.875				1569	8043	1569	8053

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
					Top Plug	4.5	1	HES
Float Shoe	4.5	1	HES	8043	Bottom Plug	4.5	1	HES
Float Collar	4.5	1	HES	7955				
					Plug Container	4.5	1	HES
					Centralizers	4.5	134	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	Tuned Spacer III	Tuned Spacer III	40	bbl	11	4.55	30	5		
37 gal/bbl		FRESH WATER								
123.25 lbm/bbl		BARITE, BULK (100003681)								

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	VersaCem	VERSACEM (TM) SYSTEM	935	sack	12.8	1.75		8	8.5
0.25 lbm		POLY-E-FLAKE (101216940)							
6 lbm		KOL-SEAL, BULK (100064233)							
8.50 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	ExpandaCem GJ4	EXPANDACEM (TM) SYSTEM	413	sack	13.3	1.89		8	8.66
20 %		SS-200 - BULK (102240841)							
0.25 lbm		POLY-E-FLAKE (101216940)							
8.66 Gal		FRESH WATER							
6 lbm		KOL-SEAL, BULK (100064233)							
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	Displacement	Displacement	123.3	bbl	8.33			8	
0.01 gal/bbl		MICRO MATRIX CEMENT RETARDER, 1 GAL PAIL (100003780)							
0.05 gal/bbl		CLA-WEB - TOTE (101985045)							
Cement Left In Pipe		Amount	88 ft			Reason			Shoe Joint
Plug Bumped?		Yes	Bump Pressure: 2170 psi			Floats Held?		Yes	
Cement Returns:		10 bbl							
Comment 40 BBL TUNED SPACER III, 10 BBL CEMENT CIRCULATED TO SURFACE									

Summary Report



Crew: _____

Job Start Date: 7/27/2015

Sales Order #: 0902611014

WO #: 0902611014

PO/AFE #: 15-111

Customer: PICEANCE ENERGY LLC - EBUS

Field: VEGA

Job Type: CMT PRODUCTION

UWI / API Number: 05-077-10245-00

County/Parish: MESA

Service Supervisor: John Keane

Well Name: PICEANCE

State: COLORADO

Well No: 28-08M

Latitude: 39.250933

Longitude: -107.779375

Cust Rep Name: MATT SETTLES

Sect / Twn / Rng: 28/9/93

Cust Rep Phone #:

Remarks:

The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	

1.0 Real-Time Job Summary

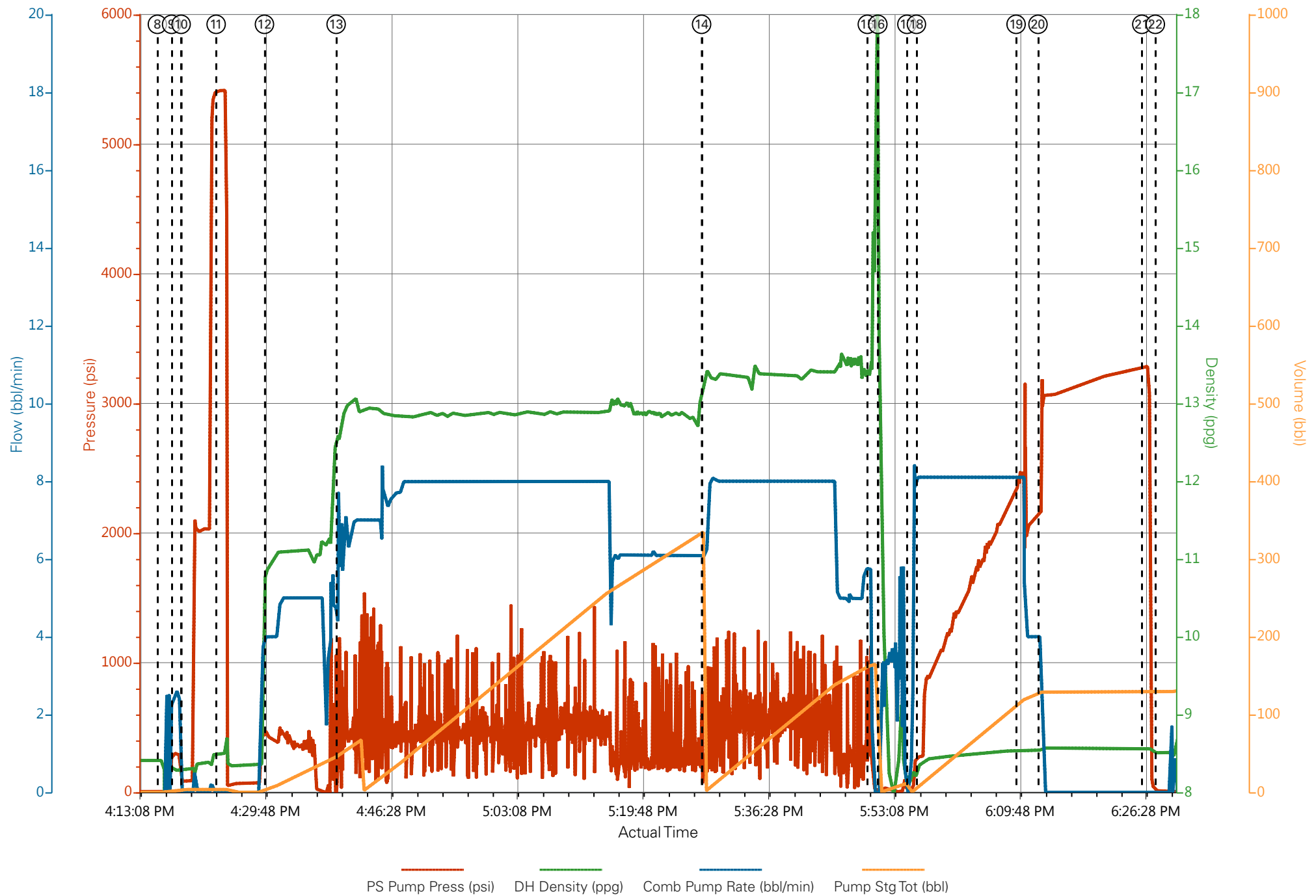
1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	7/27/2015	05:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/27/2015	08:45:00	USER					WITH HES, 1 F-550 PICKUP, 1 ELITE CEMENTING UNIT, 2 660 BULK TRUCKS
Event	3	Arrive At Loc	Arrive At Loc	7/27/2015	10:45:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/27/2015	11:00:00	USER					WITH HES
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/27/2015	11:15:00	USER					WITH HES
Event	6	Rig-Up Equipment	Rig-Up Equipment	7/27/2015	11:20:00	USER					1 LINE TO THE FLOOR, 1 LINE TO THE PIT, WASHUP MANIFOLD BUILT ON THE GROUND, 1 4.5 IN QUICK-LATCH PLUG CONTAINER
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/27/2015	12:48:31	USER					WITH HES, PICEANCE ENERGY, AND PATERSON 306
Event	8	Start Job	Start Job	7/27/2015	16:15:47	USER					TD 7043 FT, TP 8047.3 FT, CSG 4.5 IN 11.6 LB/FT P-110, SHOE 87.73 FT, HOLE 7.875 IN, SURFACE CSG SET AT 1569 FT, CSG 8.625 IN 32 LB/FT J-55, MWT 9.5 LB/GAL WBM, RIG CIRCULATING AT 8 BBL/MIN, 376 PSI, PASON GAS AT 250 UNITS
Event	9	Prime Pumps	Fill Lines	7/27/2015	16:17:40	USER	294.00	8.29	2.60	2.0	RETURNS AT 2 BBL AWAY

Event	10	Drop Bottom Plug	Drop Bottom Plug	7/27/2015	16:18:55	USER	75.00	8.29	0.00	3.6	PLUG LAUNCHED
Event	11	Test Lines	Test Lines	7/27/2015	16:23:34	USER	5412.00	8.49	0.00	3.6	LOW TEST AT 2041 PSI, HIGH TEST AT 5412 PSI, PRESSURE HOLDING
Event	12	Pump Spacer	Pump Tuned Spacer III	7/27/2015	16:29:58	USER	419.00	11.00	5.00	40.0	MIXED AT 11.0 LB/GAL, 40 BBL, 4.55 FT3/SK, 30 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	13	Pump Lead Cement	Pump Lead Cement	7/27/2015	16:39:28	USER	1193.00	12.70	8.00	291.5	MIXED AT 12.8 LB/GAL, 935 SKS, 1.75 FT3/SK, 8.5 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	14	Pump Tail Cement	Pump Tail Cement	7/27/2015	17:27:55	USER	193.00	13.30	8.00	139.0	MIXED AT 13.3 LB/GAL, 413 SKS, 1.89 FT3/SK, 8.66 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	15	Shutdown	Shutdown	7/27/2015	17:49:53	USER	389.00	13.42	5.70	163.4	
Event	16	Clean Lines	Clean Lines	7/27/2015	17:51:17	USER	25.00	13.02	1.70	0.3	WASHED PUMPS AND LINES TO THE PIT
Event	17	Drop Top Plug	Drop Top Plug	7/27/2015	17:55:08	USER	-7.00	8.13	0.00	0.0	PLUG LAUNCHED
Event	18	Pump Displacement	Pump Displacement	7/27/2015	17:56:23	USER	2500.00	8.35	8.10	113.0	FRESH WATER, 5 GAL CLA- WEB ADDED, 1 GAL MMCR ADDED
Event	19	Slow Rate	Slow Rate	7/27/2015	18:09:36	USER	2170.00	8.54	4.00	10.0	SLOWED RATE AT 113 BBL AWAY
Event	20	Bump Plug	Bump Plug	7/27/2015	18:12:30	USER	2162.00	8.55	4.00	123.0	PLUG BUMPED AT CALCULATED DISPLACEMENT, PERFORMED PRESSURE TEST OF CASING, 10 MIN
Event	21	Check Floats	Check Floats	7/27/2015	18:26:16	USER	3284.00	8.56	0.00	123.0	FLOATS HOLDING, 2 BBL

							RETURNED TO THE TRUCK
Event	22	End Job	End Job	7/27/2015	18:28:03	USER	GOOD CIRCULATION, PIPE WAS STATIC, NO ADD HOURS CHARGED, RIG DID NOT USE SUGAR, 40 BBL TUNED SPACER III, 10 BBL CEMENT CIRCULATED TO SURFACE
Event	23	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	7/27/2015	18:45:00	USER	WITH HES
Event	24	Rig-Down Equipment	Rig-Down Equipment	7/27/2015	18:50:00	USER	
Event	25	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/27/2015	19:40:00	USER	WITH HES
Event	26	Crew Leave Location	Crew Leave Location	7/27/2015	19:45:00	USER	THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

PICEANCE ENERGY - PICEANCE 28-08M - 4.5 IN. PRODUCTION



HALLIBURTON

Water Analysis Report

Company: PICEANCE ENERGY
Submitted by: JOHN KEANE
Attention: EVAN RUSSEL
Lease: PICEANCE
Well #: 28-08M

Date: 7/27/2015
Date Rec.: 7/27/2015
S.O.# 902611014
Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.5
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	0 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	250 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	73 Deg
Total Dissolved Solids		1290 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 use

Sales Order #: 0902611014	Line Item: 10	Survey Conducted Date: 7/27/2015
Customer: PICEANCE ENERGY LLC - EBUS		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: MATT SETTLES		API / UWI: (leave blank if unknown) 05-077-10245-00
Well Name: PICEANCE		Well Number: 0080734039
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: MESA

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	7/27/2015
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	MATT SETTLES
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	

CUSTOMER SIGNATURE

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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: MESA

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	7/27/2015

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	5
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	3
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	6
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Customer Non-Productive Rig Time (hrs)	0

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Well Name: PICEANCE		Well Number: 0080734039
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: MESA

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?	Both
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)	Yes
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	95
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	95
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
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