

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

GM 11-21

Cyclone 17

Post Job Summary

Cement Surface Casing

Date Prepared: 08/17/2014
Job Date: 08/16/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3464151	Quote #:	Sales Order #: 0901591417
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: SCOTT GEARY	
Well Name: CHEVRON	Well #: GM 11-21	API/UWI #: 05-045-22354-00	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE NE-20-6S-96W-2012FNL-702FEL			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 17	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Bill Jamison	

Job

CIRCULATED 28 BBLs OF CEMENT TO SURFACE

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	1167FT		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
Open Hole Section			13.5				0	1185		0
Casing		9.625	8.921	36			0	1167		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1167	Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			
Float Collar	9.625	1		1122	SSR plug set			
Insert Float					Plug Container	9.625	1	HES
Stage Tool					Centralizers			

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	20	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	
2	Lead Cement	Type I-II Cement	135	sack	12.3	2.45		8	14.17	
0.25 %		D-AIR 5000, 50 LB SACK (102068797)								

94 lbm	TYPE I / II CEMENT, BULK (101439798)								
	SALT, BULK (100003695)								
	VERSASET, 55 LB SK (101376573)								
	POLY-E-FLAKE (101216940)								
14.10 Gal	FRESH WATER								
	ECONOLITE (100001580)								
	CAL-SEAL 60, BULK (100064022)								
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	VariCem GJ5	VARICEM (TM) CEMENT	170	sack	12.8	2.18		8	12.11
12.05 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									
4	Fresh Water Displacement	Fresh Water Displacement	90	bbl	8.34			10	
Cement Left In Pipe	Amount	45 ft		Reason	Shoe Joint				
Comment									

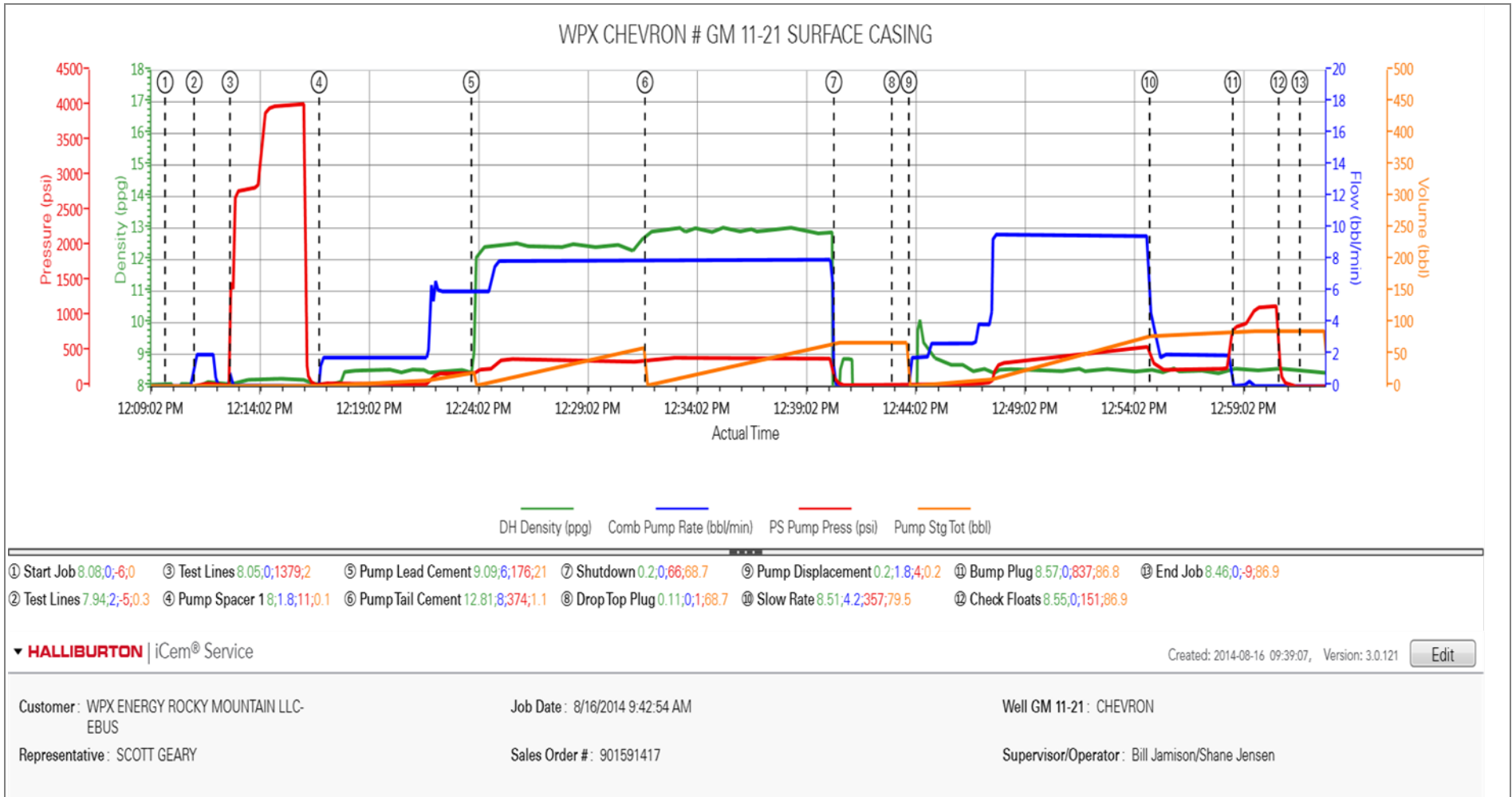
4.1 Job Event Log

Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	8/16/2014	02:30:00	USER					TD 1185 CASING SHOE SET AT 1167 FC 1122 CASING 9.625 H40 32.2# HOLE SIZE 13.5 MUD WT 10.1
Event	2	Depart Yard Safety Meeting	8/16/2014	06:20:00	USER					
Event	3	Crew Leave Yard	8/16/2014	06:30:00	USER					
Event	4	Arrive At Loc	8/16/2014	08:00:00	USER					
Event	5	Assessment Of Location Safety Meeting	8/16/2014	08:30:00	USER					
Event	6	Pre-Rig Up Safety Meeting	8/16/2014	08:50:00	USER					
Event	7	Pre-Job Safety Meeting	8/16/2014	11:30:00	USER					
Event	8	Start Job	8/16/2014	12:09:48	COM2					
Event	9	Prime Pumps	8/16/2014	12:11:10	USER	8.4	2	48	2	FRESH WATER
Event	10	Test Lines	8/16/2014	12:12:46	COM2			4000		
Event	11	Pump Spacer 1	8/16/2014	12:16:51	COM2	8.4	6	180	20	FRESH WATER
Event	12	Pump Lead Cement	8/16/2014	12:23:48	COM2	12.3	8	390	59	135 SKS 12.3 YIELD 2.45 WT/REQ14.17
Event	13	Pump Tail Cement	8/16/2014	12:31:45	COM2	12.8	8	413	66	170 SKS 12.8 YIELD 2.18 WT/REQ 12.11
Event	14	Shutdown	8/16/2014	12:40:24	USER					
Event	15	Drop Top Plug	8/16/2014	12:43:03	COM2					
Event	16	Pump Displacement	8/16/2014	12:43:50	COM2	8.4	10	562	80	FRESH WATER
Event	17	Slow Rate	8/16/2014	12:54:51	USER	8.4	2	258	10	
Event	18	Bump Plug	8/16/2014	12:58:38	COM2	8.4	2	258	90	PRESSURED UP TO 1138 PSI
Event	19	Check Floats	8/16/2014	13:00:45	USER					GOOD CIRCULATION THROUGHOUT JOB CASING WAS BEING MOVED THROUGHOUT JOB

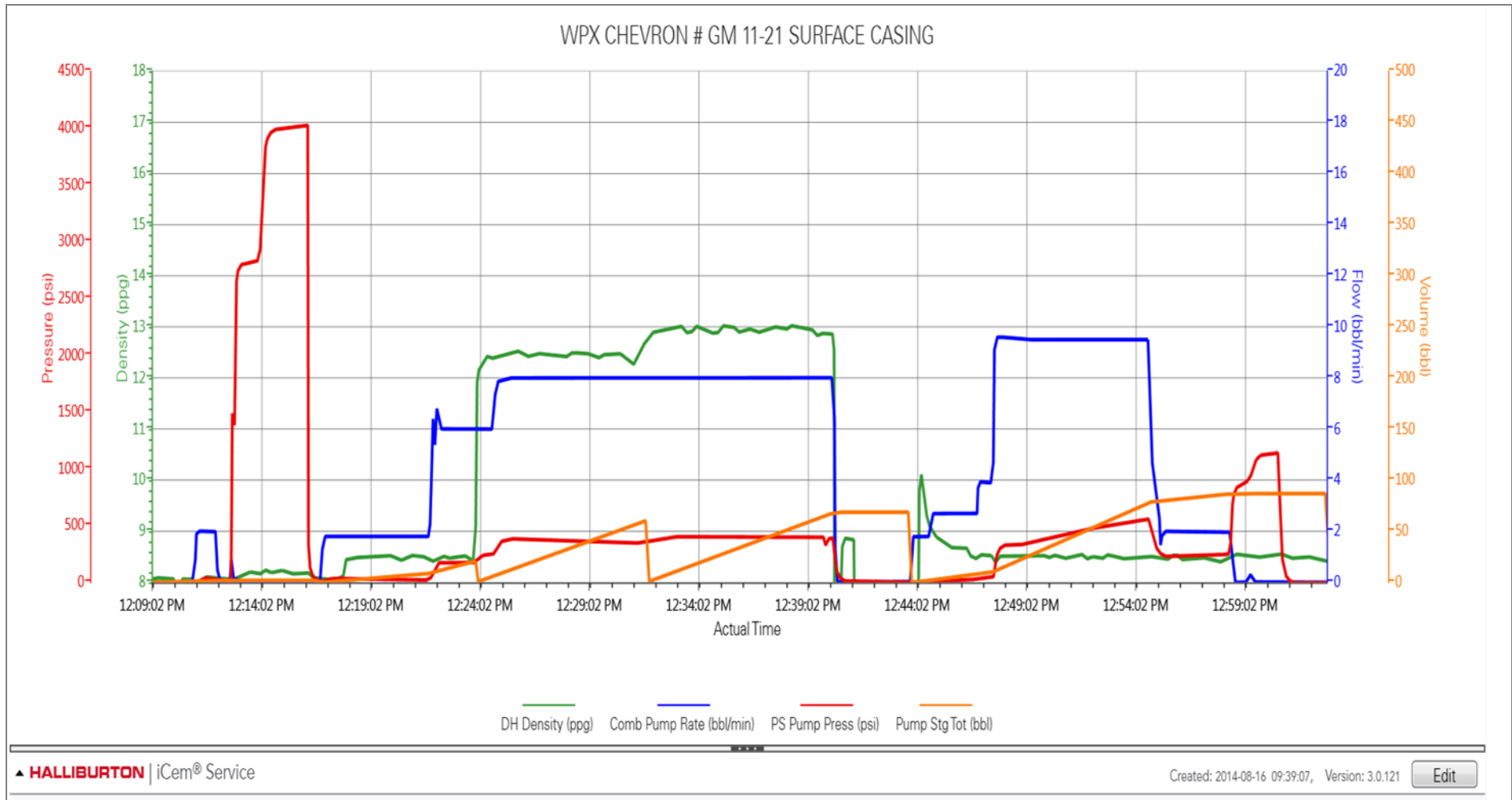
Event	20	End Job	8/16/2014	13:01:43	COM2	28 BBLs OF CEMENT CIRCULATED TO SURFACE
Event	21	Post-Job Safety Meeting (Pre Rig-Down)	8/16/2014	13:05:00	USER	
Event	22	Depart Location Safety Meeting	8/16/2014	13:50:00	USER	
Event	23	Crew Leave Location	8/16/2014	14:00:00	USER	THANKS FOR USIING HALLIBURTON BILL JAMISON & CREW

5.0 Attachments

5.1 WPX CHEVRON GM # 11-21 SURFACE CASING.png



5.2 WPX CHEVRON GM # 11-21 SURFACE CASING.png



EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		1120 Max Psi			
6	Test Lines	4000.0				
9	H2O Spacer	20.0				
13	Lead Cement	58.9	135	12.3	2.45	14.17
15	Tail Cement	66.0	170	12.8	2.18	12.11
22	Drop Plug	0.0				
23	Displace with H2O	90.0				
26	Land Plug	235 PSI				
2	Release Psi / Job Over	0.0				
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
90.00	1188	45.00	1143.00	0.0787	210	
PSI to Lift Pipe	Surface enter answer	*****Use Mud Scales on Each Tier*****				
Total Displacement	90.00					
CALCULATED DIFFERENTIAL PSI		235	TOTAL FLUID PUMPED		235	
Collapse	1400	Burst	2270	SO#	901591417	

HALLIBURTON

Water Analysis Report

Company: WPX

Date: 8/16/2014

Submitted by: BILL JAMISON

Date Rec.: 8/16/2014

Attention: DALLAS SCOTT

S.O.# 901591417

Lease CHEVRON GM # 11-21

Job Type: SURFACE

Well # _____

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.5
Potassium (K)	<i>5000</i>	250 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 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>	60 Deg
Total Dissolved Solids		370 Mg / L

Respectfully: BILL JAMISON

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

Sales Order #: 0901591417	Line Item: 10	Survey Conducted Date: 8/16/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: SCOTT GEARY		API / UWI: (leave blank if unknown) 05-045-22354-00
Well Name: CHEVRON		Well Number: 0080599228
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	8/16/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HAL9235
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	SCOTT GEARY
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	NONE

CUSTOMER SIGNATURE

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H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	8/16/2014
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)	3
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	1
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

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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.	
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)	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	98
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