

WPX Energy Rocky Mountain LLC- EBUS

RGU 334-23-198

Aztec 1000

Post Job Summary
Cement Two Stage Surface
Casing

Date Prepared: 11/26/2014

Job Date: 11/30/2014

Submitted by: Evan Russell – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3560589		Quote #:		Sales Order #: 0901850895				
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Brandon Haire						
Well Name: FEDERAL		Well #: RGU 334-23-198		API/UWI #: 05-103-12138-00						
Field: SULPHUR CREEK		City (SAP): MEEKER		County/Parish: RIO BLANCO		State: COLORADO				
Legal Description: SE SE-23-1S-98W-1035FSL-652FEL										
Contractor: AZTEC DRLG				Rig/Platform Name/Num: AZTEC 1000						
Job BOM: 392189										
Well Type: DIRECTIONAL GAS										
Sales Person: HALAMERICA\HB50180				Srv Supervisor: Bill Jamison						
Job										
Circulated 70 bbls of cement off tool first stage / circulated 120 bbls of cement to surface										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		3975ft		Job Depth TVD		3985				
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
Open Hole Section			14.75				0	1696		
Open Hole Section			13.5				1696	3985		
Casing		9.625	8.921	36			0	3975		0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	9.625	1		3975		Top Plug				
Float Shoe	9.625					Bottom Plug				
Float Collar	9.625	1		3931		SSR plug set				
Insert Float	9.625					Plug Container	9.625		HES	
Stage Tool	9.625			1750		Centralizers				
Miscellaneous Materials										
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size
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		50	bbl	8.4			6	
Fluid Data										
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 GJ1	VERSACEM (TM) SYSTEM		735	sack	12.8	1.77		8	9.31

9.33 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	VariCem GJ1	VARICEM (TM) CEMENT	240	sack	12.8	2.11		8	11.77
11.71 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	303.8	bbl	8.4			13	
Cement Left In Pipe		Amount	43.85 ft		Reason			Shoe Joint	
Fluid Data									
Stage/Plug #: 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
1	Fresh Water	Fresh Water	30	bbl	8.4			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	VariCem GJ5	VARICEM (TM) CEMENT	875	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
3	Fresh Water Displacement	Fresh Water Displacement	135.3	bbl	8.4			13	
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
			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	Halcem	HALCEM (TM) SYSTEM	37	sack	15.6	1.21		1	5.4
5.22 Gal			FRESH WATER						

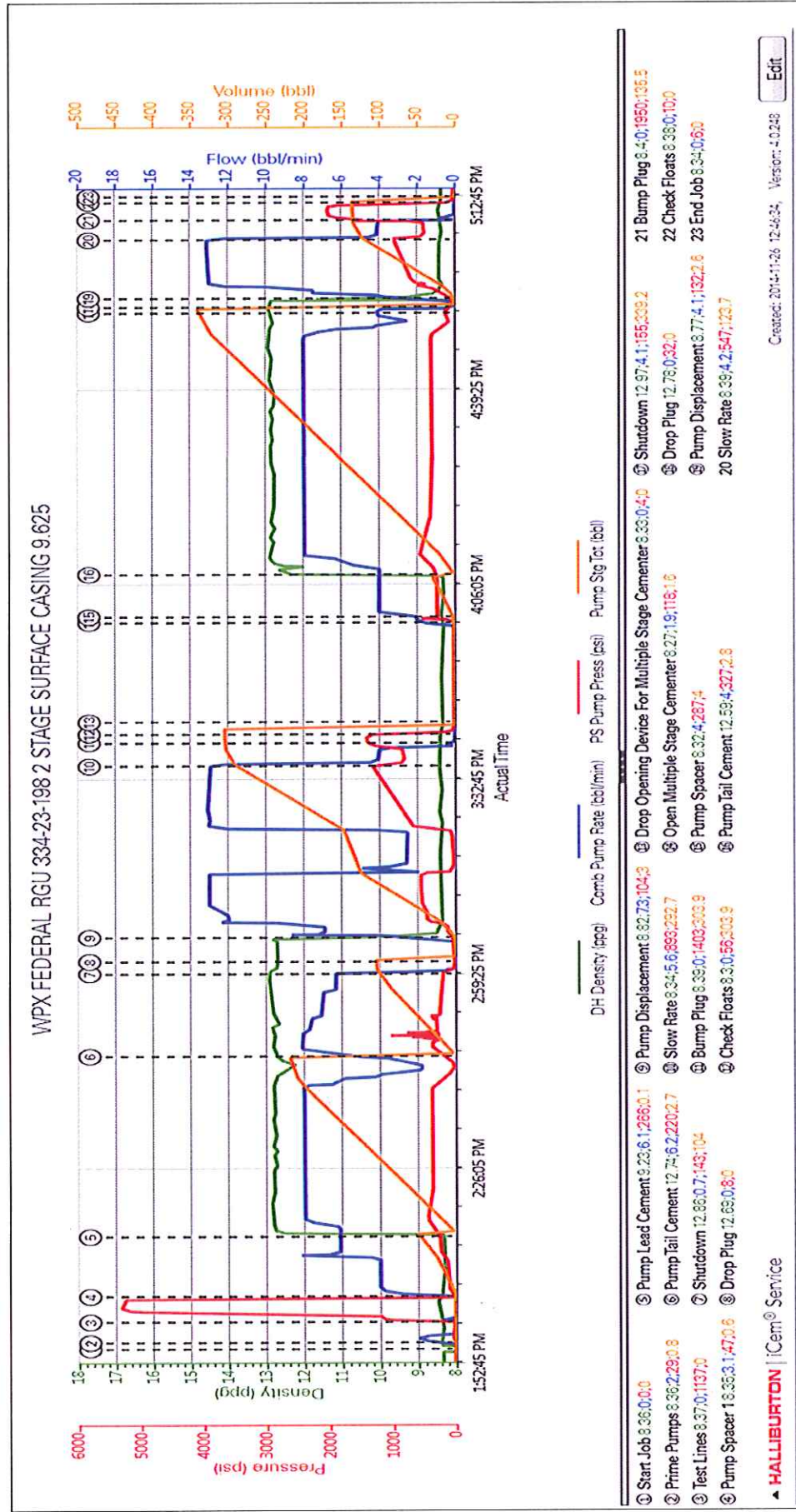
4.5 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	11/26/2014	02:30:00	USER					TD 3985 TP 3975 SJ 43.85 STAGE TOOL 1750 CASING 9.625 36# J-55 MUD 9.4
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	11/26/2014	04:50:00	USER					
Event	3	Crew Leave Yard	Crew Leave Yard	11/26/2014	05:00:00	USER					
Event	4	Arrive At Loc	Arrive At Loc	11/26/2014	08:30:00	USER					
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	11/26/2014	11:30:00	USER					
Event	6	Pre-Rig Up Safety Meeting	Pre Rig Up Safety Meeting	11/26/2014	11:45:00	USER					
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	11/26/2014	13:20:00	USER					
Event	8	Start Job	Start Job	11/26/2014	13:55:33	COM2				2	
Event	9	Prime Pumps	Prime Pumps	11/26/2014	13:56:39	COM2	8.4	2.00	52		FRESH WATER
Event	10	Test Lines	Test Lines	11/26/2014	14:00:11	COM2			5331		
Event	11	Pump Spacer 1	Pump Spacer 1	11/26/2014	14:04:34	COM2	8.4	6	445	50	FRESH WATER
Event	12	Pump Lead Cement	Pump Lead Cement	11/26/2014	14:14:50	COM2	12.8	8	385	231.7	735 SKS YIELD 1.77 WAT/REQ 9.31
Event	13	Pump Tail Cement	Pump Tail Cement	11/26/2014	14:45:47	COM2	12.8	8	370	90.2	240 SKS YIELD 2.11 WAT/REQ 11.77
Event	14	Shutdown	Shutdown	11/26/2014	14:59:53	USER					
Event	15	Drop Plug	Drop Plug	11/26/2014	15:02:00	USER					
Event	16	Pump Displacement	Pump Displacement	11/26/2014	15:06:08	COM2	8.4	13	104.00		FRESH WATER
Event	17	Slow Rate	Slow Rate	11/26/2014	15:35:27	USER	8.4	4	1325	290	
Event	18	Bump Plug	Bump Plug	11/26/2014	15:39:24	COM2	8.4	4	850	303.8	PRESSURED UP TO 1405 PSI
Event	19	Check Floats	Check Floats	11/26/2014	15:40:54	USER					FLOATS HELD
Event	20	Drop Opening Device For Multiple Stage Cementer	Drop Opening Device For Multiple Stage Cementer	11/26/2014	15:43:00	USER					GOOD CIRCULATION THROUGHOUT FRIST

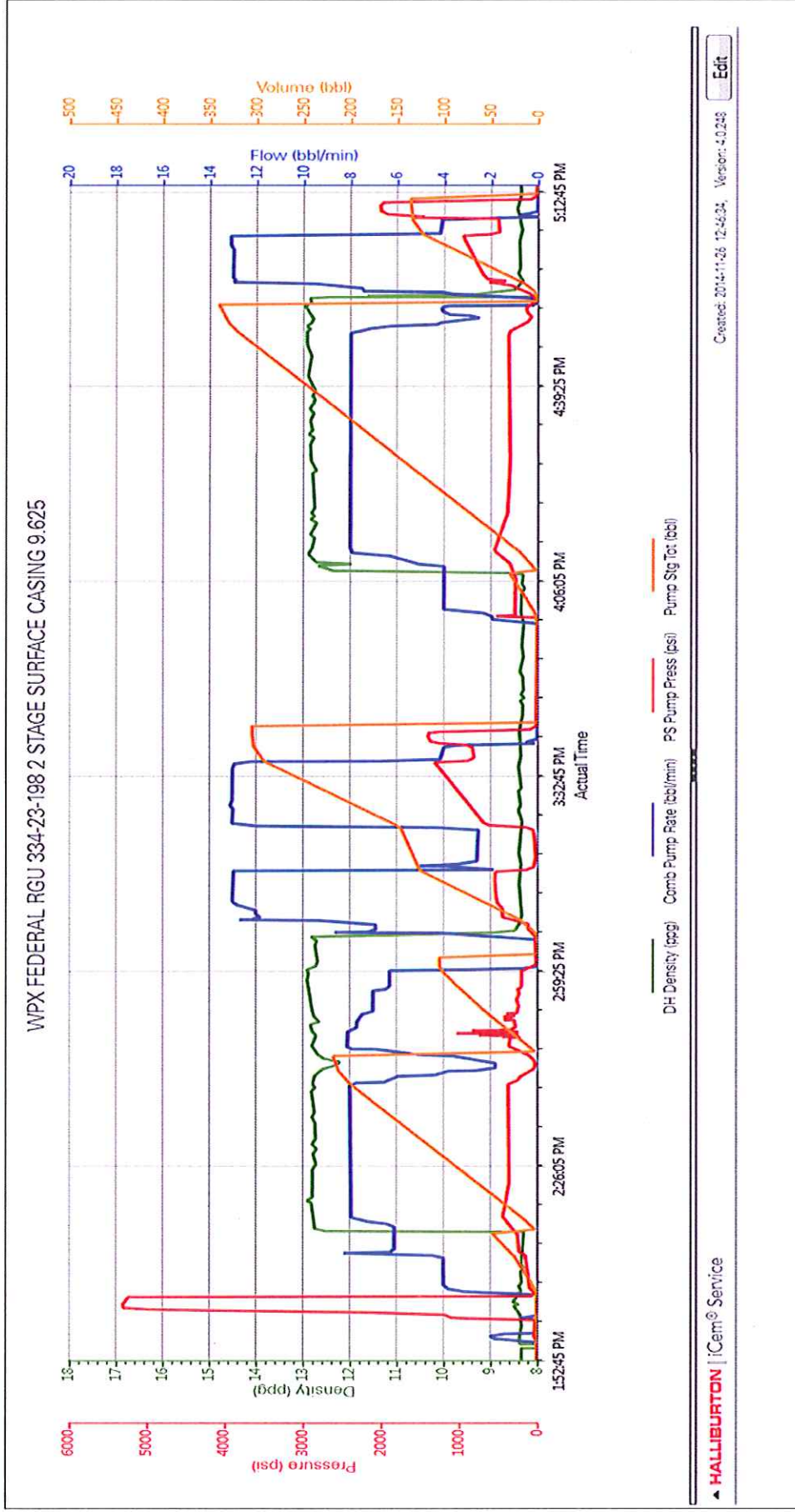
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	21	Open Multiple Stage Cementer	Open Multiple Stage Cementer	11/26/2014	16:00:00	USER	8.4	2	550		STAGE CIRCULATED 70 BBLs OF CEMENT OFF STAGE TOOL
Event	22	Pump Spacer	Pump Spacer	11/26/2014	16:01:00	USER	8.4	4	280	30	TOOL OPEN
Event	23	Pump Tail Cement	Pump Tail Cement	11/26/2014	16:08:15	COM2	12.8	8	390	339.7	FRESH WATER
Event	24	Shutdown	Shutdown	11/26/2014	16:53:00	USER					875 SKS YIELD 2.18 WAT/REQ 1'2.11
Event	25	Drop Plug	Drop Plug	11/26/2014	16:54:00	USER					
Event	26	Pump Displacement	Pump Displacement	11/26/2014	16:55:31	COM2	8.4	13	132.00		FRESH WATER
Event	27	Slow Rate	Slow Rate	11/26/2014	17:05:35	USER	8.4	4	930	120	
Event	28	Bump Plug	Bump Plug	11/26/2014	17:09:00	USER	8.4	4	490	135.3	PRESSURED UP TO 2015 PSI
Event	29	Check Floats	Check Floats	11/26/2014	17:12:01	USER					FLOATS HELD
Event	30	End Job	End Job	11/26/2014	17:13:00	USER					GOOD CIRCULATION THROUGHOUT 2ND STAGE CIRCULATED 120 BBLs OF CEMENT TO SURFACE
Event	31	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	11/26/2014	17:15:00	USER					GOOD CIRCULATION THROUGHOUT JOB

5.0 Attachments

5.1 WPX FEDERAL RGU 334-23-198 2 STAGE SURFACE 9.625.png



5.2 WPX FEDERAL RGU 334-23-198 2 STAGE SURFACE 9.625.png



HA LLIBURTON

Water Analysis Report

Company:	WPX	Date:	11/26/2014
Submitted by:	BILL JAMISON	Date Rec.:	11/26/2014
Attention:	DALLAS SCOTT	S.O.#	901850895
Lease	FED RGU	Job Type:	9 5/8" SURFACE
Well #	334-23-198		

Specific Gravity	MAX	1
pH	8	8
Potassium (K)	5000	400 Mg / L
Calcium (Ca)	500	120 Mg / L

Sales Order #: 0901850895	Line Item: 10	Survey Conducted Date: 11/26/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: BRANDON HAIRE		API / UWI: (leave blank if unknown) 05-103-12138-00
Well Name: FEDERAL		Well Number: 0080641148
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: RIO BLANCO

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	11/26/2014
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	BRANDON HAIRE
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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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	11/26/2014

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.	8
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.	6
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	5
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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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