

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 44-6

Aztec 1000

Post Job Summary

Cement Surface Casing

Date Prepared: 07/06/2014
Job Date: 06/26/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3476000	Quote #:	Sales Order #: 0901457413
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: HICKS PA	Well #: 44-6	API/UWI #: 05-045-22409-00	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SW-6-7S-95W-788FSL-2219FWL			
Contractor:		Rig/Platform Name/Num: Aztec 1000	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: KYLE BATH	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1011 - 1011.5 Job Depth TVD
Water Depth	Wk Ht Above Floor
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	9.001	32.3			0	1021		0
Open Hole Section			13.5				0	1046		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	9.625	1		1011 - 1011.5	Top Plug	9.625	1	HES	
Float Shoe	9.625	1			Bottom Plug	9.625	1	HES	
Float Collar	9.625	1			SSR plug set	9.625	1	HES	
Insert Float	9.625	1			Plug Container	9.625	1	HES	
Stage Tool	9.625	1			Centralizers	9.625	1	HES	

Miscellaneous Materials														
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	Conc

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					
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	VARICEM (TM) CEMENT	110	sack	12.3	2.38		8	13.77	

13.70 Gal		FRESH WATER							
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
3	Tail Cement	VARICEM (TM) CEMENT	165	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/mi n	Total Mix Fluid Gal
4	Displacement	Displacement	76.9	bbl	8.3				
Cement Left In Pipe	Amount	44 ft		Reason	Shoe Joint				
Comment									

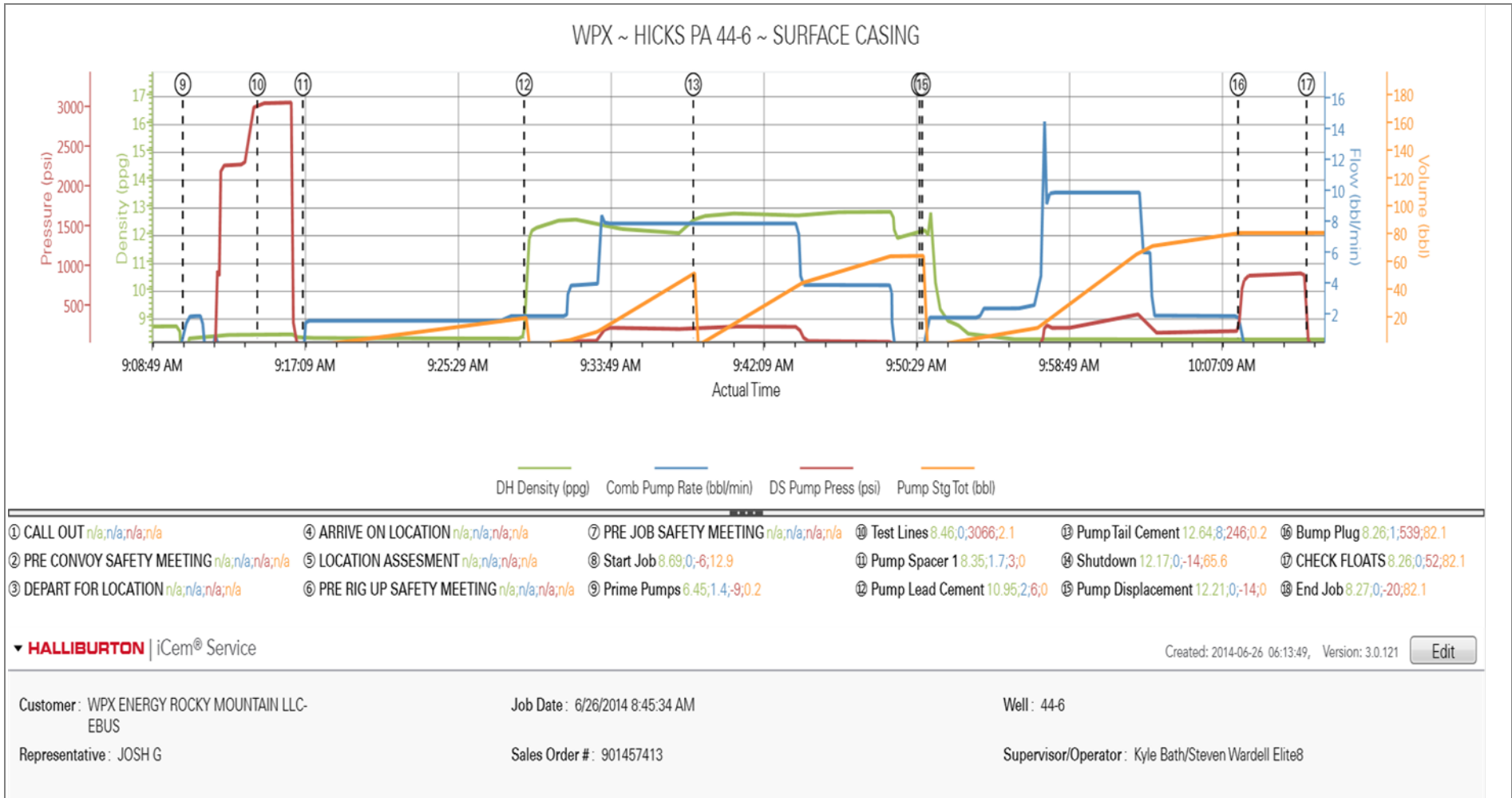
3.1 Job Event Log

Type	Seq No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	CALL OUT	6/25/2014	23:59:00	USER					
Event	2	PRE CONVOY SAFETY MEETING	6/26/2014	00:15:00	USER					
Event	3	DEPART FOR LOCATION	6/26/2014	00:30:00	USER					
Event	4	ARRIVE ON LOCATION	6/26/2014	03:00:00	USER					RIG RUNNING CASING UPON HES ARRIVAL
Event	5	LOCATION ASSESSMENT	6/26/2014	03:15:00	USER					
Event	6	PRE RIG UP SAFETY MEETING	6/26/2014	07:30:00	USER					
Event	7	PRE JOB SAFETY MEETING	6/26/2014	08:40:00	USER					
Event	8	Start Job	6/26/2014	09:02:15	COM3					TD 1056, TP 1046, CSG 9 5/8 32.3# H-40
Event	9	Prime Pumps	6/26/2014	09:10:36	COM3	8.33	2	15	2	2 BBLS FRESH WATER
Event	10	Test Lines	6/26/2014	09:14:40	COM3			3084		TEST LINES TO 3084 PSI
Event	11	Pump Spacer 1	6/26/2014	09:17:09	COM3	8.33	4	55	20	20 BBLS FRESH WATER
Event	12	Pump Lead Cement	6/26/2014	09:29:13	COM3	12.3	8	240	47	MIX AND PUMP 110 SKS AT 12.3 PPG, 2.38 FT3/FT, 13.77 GAL/SK
Event	13	Pump Tail Cement	6/26/2014	09:38:27	COM3	12.8	8	260	62	MIX AND PUMP 165 SKS AT 12.8 PPG, 2.11 FT3/FT, 11.77 GAL/SK
Event	14	Shutdown	6/26/2014	09:50:47	COM3					SHUT DOWN DROP PLUG
Event	15	Pump Displacement	6/26/2014	09:50:56	COM3	8.33	10	390	77	PUMP 77 BBLS FRESH WATER
Event	16	Bump Plug	6/26/2014	10:08:09	COM3			920		TAKTE 500 PSI OVER, 920 PSI FINAL
Event	17	CHECK FLOATS	6/26/2014	10:11:53	COM3					1/2 BBL BACK TO TRUCK

Event	18	End Job	6/26/2014	10:14:36	COM3	GOOD CIRCULATION THROUGHOUT JOB, 21 BBLS CEMENT BACK TO SURFACE
Event	19	PRE RIG DOWN SAFETY MEETING	6/26/2014	10:30:00	USER	
Event	20	RIG DOWN	6/26/2014	10:45:00	USER	
Event	21	PRE CONVOY SAFETY MEETING	6/26/2014	12:00:00	USER	
Event	22	DEPART LOCATION	6/26/2014	13:00:00	USER	THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

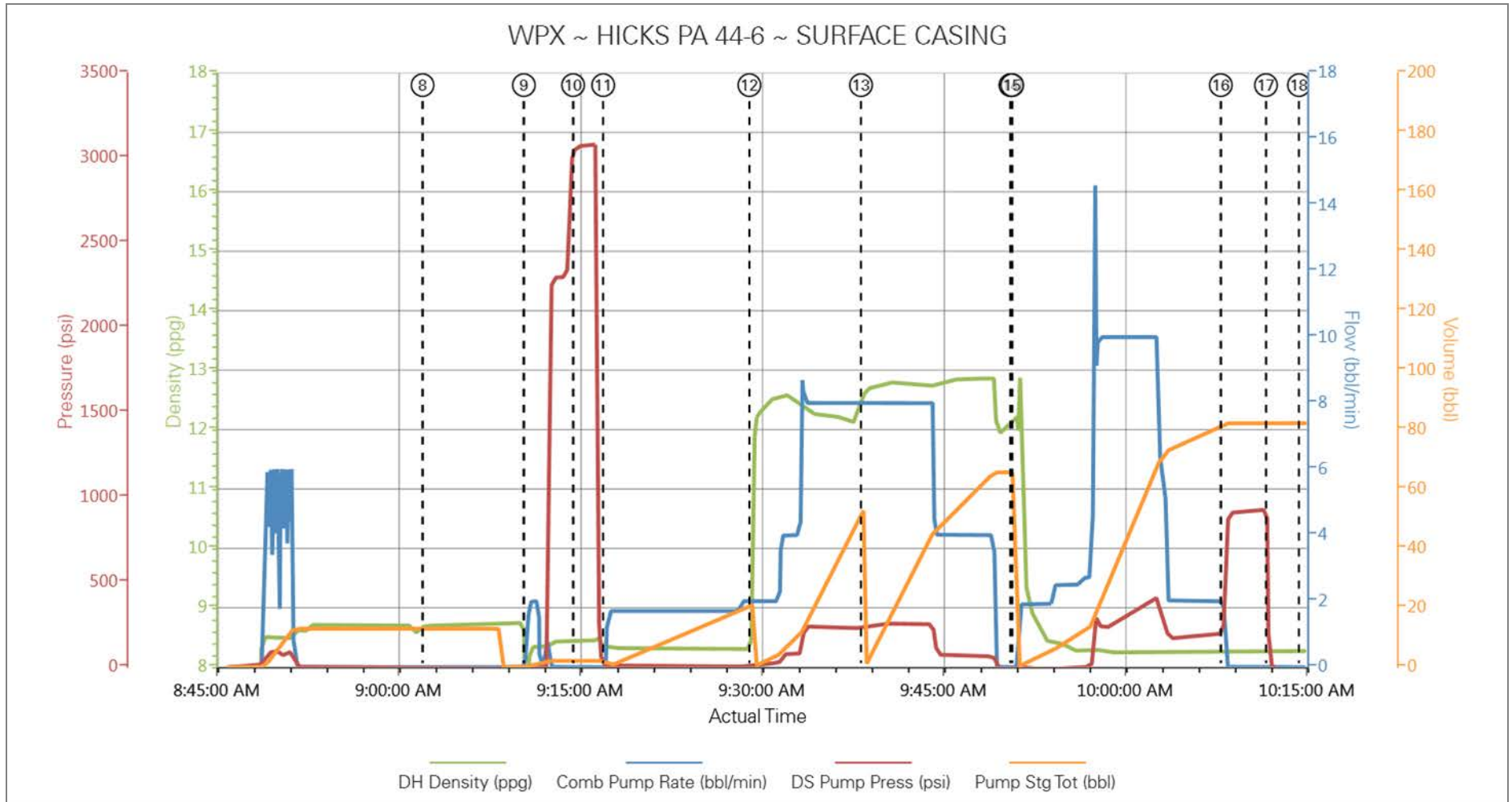
4.0 Attachments

4.1 Case 1-Custom Results.png



5.0 Custom Graphs

5.1 Custom Graph



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: KYLE BATH
Attention: DALLAS SCOTT
Lease: HICKS PA
Well #: 44-6

Date: 6/26/2014
Date Rec.: 6/26/2014
S.O.#: 901457413
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	8
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>	NA Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	63 Deg
Total Dissolved Solids		10 Mg / L

Respectfully: KYLE BATH

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

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		1800 <u>Max Psi</u>			
6	Test Lines	3000.0				
9	H2O Spacer	20.0				
	Lead Cement	46.6	110	12.3	2.38	13.77
15	Tail Cement	32.5	165	12.8	2.11	11.77
23	Displace with H2O	76.9				
2	Release Psi / Job Over	0.0				
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
76.90	1021.42	44.03	0.00	0.0787	300	
PSI to Lift Pipe		*****Use Mud Scales on Each Tier*****				
Total Displacement	76.90					
CALCULATED DIFFERENTIAL PSI			TOTAL FLUID PUMPED			
Collapse	1120	Burst	1816	SO#	901457413	

Sales Order #: 0901457413	Line Item: 10	Survey Conducted Date: 6/27/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JOSH G		API / UWI: (leave blank if unknown) 05-045-22409-00
Well Name: HICKS PA		Well Number: 0080606502
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	6/27/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB49384
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	JOSH G
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

Sales Order #: 0901457413	Line Item: 10	Survey Conducted Date: 6/27/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JOSH G		API / UWI: (leave blank if unknown) 05-045-22409-00
Well Name: HICKS PA		Well Number: 0080606502
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	6/27/2014
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	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
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?	
Operating Hours (Pumping Hours)	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	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.	
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	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 0901457413	Line Item: 10	Survey Conducted Date: 6/27/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: JOSH G		API / UWI: (leave blank if unknown) 05-045-22409-00
Well Name: HICKS PA		Well Number: 0080606502
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

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