

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS
DO NOT MAIL - ACH-43241
TULSA, Oklahoma

RU 13-5

Nabors 576

Post Job Summary

Cement Surface Casing

Date Prepared: 11/30/2013
Version: 1

Service Supervisor: CASTILLO, FRANCISCO

Submitted by: Grand Junction Engineering

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3123441		Quote #:		Sales Order #: 900917538	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Hartl, Al			
Well Name: RU			Well #: 13-5			API/UWI #: 05-045-21769	
Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield			State: Colorado
Lat: N 39.475 deg. OR N 39 deg. 28 min. 29.035 secs.				Long: W 107.799 deg. OR W -108 deg. 12 min. 4.342 secs.			
Contractor: Nabors			Rig/Platform Name/Num: Nabors 576				
Job Purpose: Cement Surface Casing							
Well Type: Development Well				Job Type: Cement Surface Casing			
Sales Person: MAYO, MARK			Srvc Supervisor: CASTILLO, FRANCISCO			MBU ID Emp #: 513620	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CASTILLO, FRANCISCO P	10	513620	SCHANZ, ANDREW Jacob	10	544399	SINCLAIR, DAN J	10	338784

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10616651C	60 mile	10867322	60 mile	10951251	60 mile	11139330	60 mile
11808827	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/22/13	6	0	11/23/13	4	1			
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Formation Name	Job	Date	Time	Time Zone
Formation Depth (MD)	Top SURFACE Bottom 1950	Called Out	22 - Nov - 2013	13:27 MST
Form Type	BHST	On Location	22 - Nov - 2013	18:00 MST
Job depth MD	11950. ft	Job Depth TVD	1195. ft	Job Started 22 - Nov - 2013 01:15 MST
Water Depth		Wk Ht Above Floor	3. ft	Job Completed 22 - Nov - 2013 02:20 MST
Perforation Depth (MD)	From To	Departed Loc	23 - Nov - 2013	04:00 MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
-------------	------------	-------------------	---------	-------	---------------	--------	-------	-----------	--------------	------------	---------------

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe	9.625	1	WTF	1187	Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WTF	1142.96	Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers	9.625	9	WTF

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/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		

Stage/Plug #: 1													
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom		

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	4	
2	VariCem GJ! Lead Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.3	2.38	13.75	6.5	13.75
13.75 Gal		FRESH WATER							
3	VariCem GJ1 Tail Cement	VARICEM (TM) CEMENT (452009)	160.0	sacks	12.8	2.11	11.75	6.2	11.75
11.75 Gal		FRESH WATER							
4	Fresh Water Displacement		90.00	bbl	.	.0	.0	10	
Calculated Values		Pressures		Volumes					
Displacement	90	Shut In: Instant		Lost Returns	NONE	Cement Slurry	128	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	240
Rates									
Circulating	RIG	Mixing	6	Displacement	10	Avg. Job	7		
Cement Left In Pipe	Amount	44.04 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3123441		Quote #:		Sales Order #: 900917538	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Hartl, Al			
Well Name: RU			Well #: 13-5			API/UWI #: 05-045-21769	
Field: RULISON		City (SAP): RIFLE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.475 deg. OR N 39 deg. 28 min. 29.035 secs.				Long: W 107.799 deg. OR W -108 deg. 12 min. 4.342 secs.			
Contractor: Nabors			Rig/Platform Name/Num: Nabors 576				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: MAYO, MARK			Srvc Supervisor: CASTILLO, FRANCISCO			MBU ID Emp #: 513620	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/22/2013 13:27							ON LOCATION AT 21:00 HRS
Pre-Convoy Safety Meeting	11/22/2013 14:50							ALL HES PERSONEL
Crew Leave Yard	11/22/2013 15:00							
Arrive At Loc	11/22/2013 18:00							RIG WAS STILL DRILLING
Assessment Of Location Safety Meeting	11/22/2013 19:20							ALL HES PERSONEL
Rig-Up Equipment	11/22/2013 19:30							1-ELITE, 1-660 BULK TRUCKS, 2" PUMPING IRON, 9.625" PLUG CONTAINER AND QUICKLATCH
Rig-Up Completed	11/22/2013 20:45							RIG LANDED CASING AT 00:15 HRS 11/23/13
Pre-Job Safety Meeting	11/23/2013 00:45							ALL HES PERSONEL AND RIG CREW
Start Job	11/23/2013 01:15							TD-1195', OH-13.5", TP-1187', SJ-44.04', FC-1142.96', CSG-9.625", 32.3#, H-40, MUD-10.2 PPG, VISC-75
Pump Water	11/23/2013 01:17		2	2			70.0	FILL LINES
Pressure Test	11/23/2013 01:18		0.2	0.2				STALL OUT TEST WITH 1310 PSI
Pressure Test	11/23/2013 01:20		0.2	0.2				PRESSURE TEST LINES WITH 3656 PSI
Pump Spacer	11/23/2013 01:24		4	20			151.0	FRESH WATER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To # : 300721

Ship To # :3123441

Quote # :

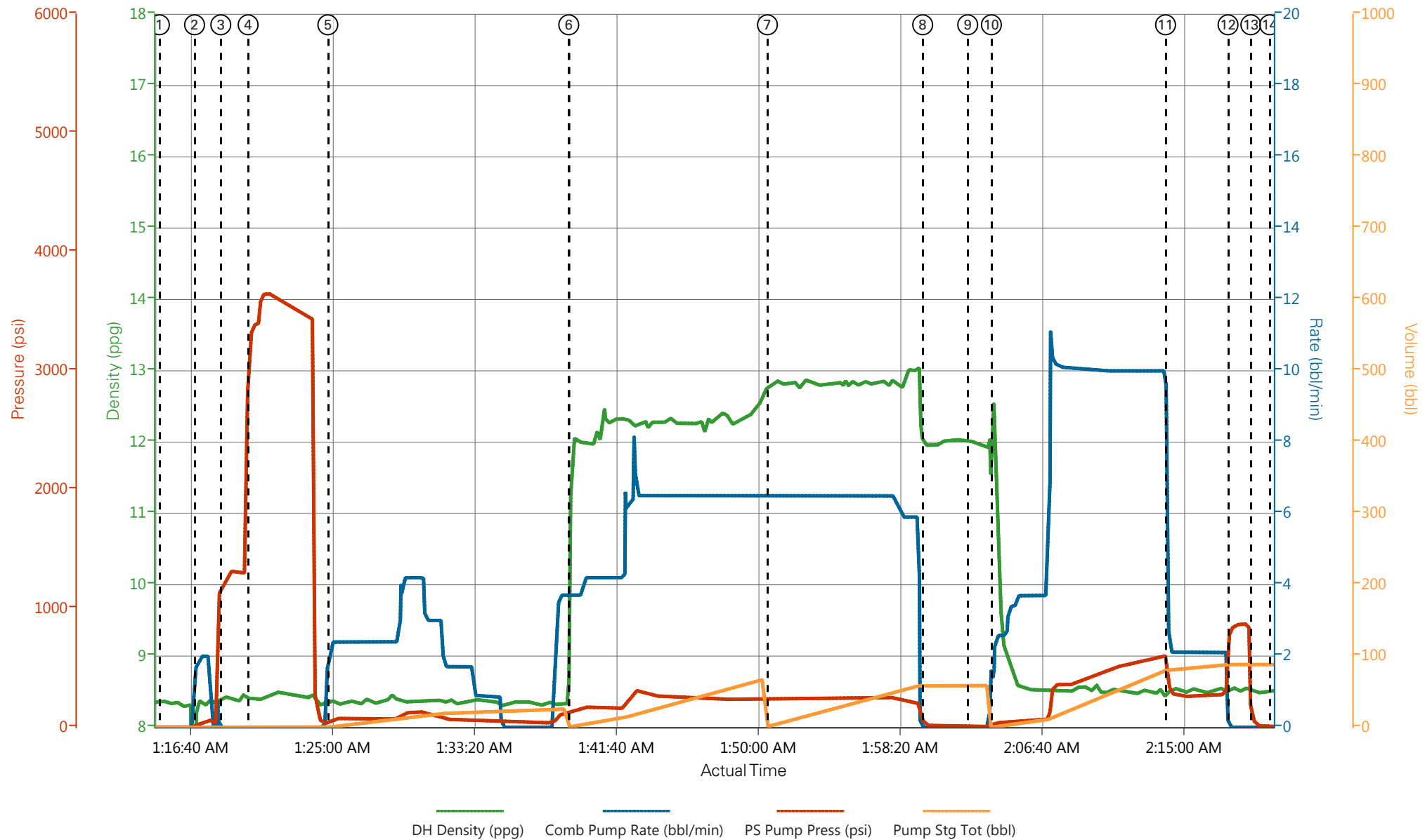
Sales Order # : 900917538

SUMMIT Version: 7.3.0106

Wednesday, December 04, 2013 04:41:00

Pump Lead Cement	11/23/2013 01:39		6.5	68			265.0	160 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK, SETUP TIME 2:58 HRS AT 70 BC
Pump Tail Cement	11/23/2013 01:50		6.2	60			250.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK, SETUP TIME 1:51 HRS AT 70 BC
Shutdown	11/23/2013 01:59							
Drop Plug	11/23/2013 02:02							VERIFIED AND DRILLER
Pump Displacement	11/23/2013 02:03		10	80			607.0	FRESH WATER. GOT CMT RETURNS 60 BBLs INTO DISPLACEMENT. FIRST 10 BBLs PUMPED AT 3.7 BPM WITH 61 PSI
Slow Rate	11/23/2013 02:14		2	10			279.0	
Bump Plug	11/23/2013 02:17			90			870.0	CIRCULATED 30 BBLs/71 SKS OF CEMENT TO SURFACE. WE DID NOT USE ANY SUGAR. RIG PROVIDED THEIR OWN.
Check Floats	11/23/2013 02:19							FLOATS HELD/ 0.5 BBLs FLOW BACK TO DISPLACEMENT TANK
End Job	11/23/2013 02:20							
Post-Job Safety Meeting (Pre Rig-Down)	11/23/2013 02:25							
Rig-Down Completed	11/23/2013 03:45							
Depart Location Safety Meeting	11/23/2013 03:50							
Crew Leave Location	11/23/2013 04:00							
Other	11/23/2013 04:01							THANK YOU FOR YOUR BUSINESS FROM JAVIER CASTILLO AND CREW

WPX RU 13-5 SURFACE



- | | | | | |
|-----------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------|
| ① Start Job 8.36;0;3;0 | ④ Test Lines 8.4;0;3333;1.8 | ⑦ Pump Tail Cement 12.82;6.5;251;2.5 | ⑩ Pump Displacement 12.34;2.3;29;0.5 | ⑬ Check Floats 8.5;0;48;88.2 |
| ② Fill Lines 8.4;1.7;15;0.4 | ⑤ Pump Spacer 1 8.37;2.4;55;0.7 | ⑧ Shutdown 11.92;0;24;58.7 | ⑪ Slow Rate 8.54;2.2;353;81 | ⑭ End Job 8.53;0;4;88.2 |
| ③ Stall Out 8.47;0;1199;1.8 | ⑥ Pump Lead Cement 11.63;3.7;144;1.4 | ⑨ Drop Plug 12.01;0;8;58.7 | ⑫ Bump Plug 8.56;0;831;88.2 | |

▼ **HALLIBURTON** | iCem® Service

Created: 2013-11-23 00:32:09, Version: 2.0.606

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 11/23/2013 12:34:35 AM

Well: RU 13-5

Representative: AL HARTL

Sales Order #: 900917538

ELITE #4: J. CASTILLO / DAN SINCLAIR

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: JAVIER CASTILLO

Attention: J.Trout

Lease: RU

Well #: 13-5

Date: 11/22/2013

Date Rec.: 11/22/2013

S.O.#: 900917538

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 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>	40 Deg
Total Dissolved Solids		710 Mg / L

Respectfully: JAVIER CASTILLO

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 #: 900917538	Line Item: 10	Survey Conducted Date: 11/23/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21769
Well Name: RU		Well Number: 13-5
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	11/23/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	FRANCISCO CASTILLO (HB85312)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL HARTL
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 #: 900917538	Line Item: 10	Survey Conducted Date: 11/23/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21769
Well Name: RU		Well Number: 13-5
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	11/23/2013

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.	10
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
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	1
Customer Non-Productive Rig Time (hrs) 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.	0
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
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 900917538	Line Item: 10	Survey Conducted Date: 11/23/2013
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21769
Well Name: RU		Well Number: 13-5
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	95
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	95
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