

HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

RG 511-14-298

Cyclone 29

Post Job Summary
Cement Production Casing

Date Prepared: 03/3/2014
Version: 1

Service Supervisor: Smith, Christopher

Submitted by: Grand Junction Engineering

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3124401		Quote #:		Sales Order #: 901137038							
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Ragsdale, Ted									
Well Name: RG			Well #: 511-14-298			API/UWI #: 05-103-11809							
Field:		City (SAP): MEEKER		County/Parish: Rio Blanco		State: Colorado							
Contractor: CYCLONE 29			Rig/Platform Name/Num: 29										
Job Purpose: Cement Multiple Stages													
Well Type: Development Well				Job Type: Cement Multiple Stages									
Sales Person: MAYO, MARK			Srvc Supervisor: MILLER, KEVIN			MBU ID Emp #: 443040							
Job Personnel													
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #		
HYDE, DUSTIN C		14.5	453940	MILLER, KEVIN Paul		14.5	443040	SINCLAIR, DAN J		14.5	338784		
WILSON, BENJAMIN Wallace		14.5	533647	DAVID LIDE		14.5	547540	RAMON SOMOZA		14.5	554555		
Equipment													
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way				
10565341	60 mile	10867531	60 mile	10989685	60 mile	10995027	60 mile						
Job Hours													
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours					
2/23/14	8	4											
TOTAL	Total is the sum of each column separately												
Job					Job Times								
Formation Name					Date	Time	Time Zone						
Formation Depth (MD)	Top	Bottom	Called Out	22 - Feb - 2014	17:30	MST							
Form Type		BHST			On Location	22 - Feb - 2014	23:00	MST					
Job depth MD	3056. ft	Job Depth TVD	3056. ft	Job Started	23 - Feb - 2014	03:57	MST						
Water Depth		Wk Ht Above Floor			4. ft	Job Completed							
Perforation Depth (MD)	From	To	Departed Loc										
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		
OPEN HOLE				13.5				1205.	3056.				
OPEN HOLE				14.75				.	1205.				
SURFACE PIPE	New		9.625	8.921	36.		J-55	.	3060.8				
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	
Float Shoe	9.625	1	WEA		Bridge Plug					Bottom Plug			
Float Collar	9.625	1	WEA		Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool	9.625	1	WEA	1258						Centralizers		11	
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

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		40.00	bbl	8.33	.0	.0	.0	
2	1st Stage HLC Lead Cement	ECONOCEM (TM) SYSTEM (452992)	780.0	sacks	12.8	1.77	9.34		9.34
	0.25 lbm	POLY-E-FLAKE (101216940)							
	0.35 %	HR-5, 50 LB SK (100005050)							
	9.34 Gal	FRESH WATER							
3	1st Stage Varicem Tail Cement	VARICEM (TM) CEMENT (452009)	325.0	sacks	12.8	1.96	10.95		10.95
	0.25 lbm	POLY-E-FLAKE (101216940)							
	10.95 Gal	FRESH WATER							
4	Displacement		235.00	bbl	8.33	.0	.0	.0	
5	Fresh Water Spacer		20.00	bbl	8.33	.0	.0	.0	
6	2nd Stage VariCem Cement	VARICEM (TM) CEMENT (452009)	765.0	sacks	12.8	1.96	10.95		10.95
	0.25 lbm	POLY-E-FLAKE (101216940)							
	10.95 Gal	FRESH WATER							
7	Displacement		97.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating	12	Mixing	6	Displacement	10	Avg. Job	6		
Cement Left In Pipe	Amount	26.6 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					

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Sold To #: 300721	Ship To #: 3124401	Quote #:	Sales Order #: 901137038
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Ragsdale, Ted	
Well Name: RG	Well #: 511-14-298	API/UWI #: 05-103-11809	
Field:	City (SAP): MEEKER	County/Parish: Rio Blanco	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: CYCLONE 29		Rig/Platform Name/Num: 29	
Job Purpose: Cement Multiple Stages			Ticket Amount:
Well Type: Development Well		Job Type: Cement Multiple Stages	
Sales Person: MAYO, MARK		Srvc Supervisor: MILLER, KEVIN	MBU ID Emp #: 443040

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/22/2014 17:30							
Pre-Convoy Safety Meeting	02/22/2014 20:00							ALL HES PERSONEL
Depart from Service Center or Other Site	02/22/2014 20:10							
Arrive At Loc	02/22/2014 23:00							RIG WAS STILL RUNNING CASING UPON HES ARRIVAL
Pre-Rig Up Safety Meeting	02/23/2014 00:10							ALL HES PERSONEL
Rig-Up Equipment	02/23/2014 01:10							2 SILOS, 1 ELITE, 1 F250, 1 660 BULK TRUCK
Rig-Up Completed	02/23/2014 02:45							
Pre-Job Safety Meeting	02/23/2014 03:30							ALL HES AND RIG PERSONEL
Start Job	02/23/2014 03:57							TD 3056', TP 3060.77', SJ 26.67', CSG 9.625" 36#, OH 13.5" 1205' TO TD, 14.75" 1205'- 0', MUD 10#,
Other	02/23/2014 03:59							PRIME LINES
Pressure Test	02/23/2014 04:01							KICKOUT FUNCTION TEST, 7TH GEAR STALL OUT, PSI TEST AT 3500
Pump Spacer 1	02/23/2014 04:09		4	40			205.0	FRESH WATER, GOT RETURNS AT 4 BBLS AWAY
Pump 1st Stage Lead Slurry	02/23/2014 04:22		7	245.9			350.0	780 SKS, 12.8 PPG, 1.77 FT3/SK, 9.34 GAL/SK, 10 BOXES OF TOUGH FIBER THROUGHOUT LEAD

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump 1st Stage Tail Slurry	02/23/2014 05:03		6	113.4 4			370.0	325 SKS, 12.8 PPG, 1.96 FT3/SK, 10.95 GAL/SK
Shutdown	02/23/2014 05:23							
Drop Top Plug	02/23/2014 05:27							POP CAP AND DROP WIPER DART, WASH PUMPS AND LINES ON TOP OF PLUG
Pump Displacement	02/23/2014 05:30		10	234.5 3			900.0	FRESH H2O, SLOWED RATE TO 4 BBL A MIN AT 93-103 BBLS AWAY TO PASS DART THROUGH MSC, GOT CEMENT TO SURFACE AT 185 BBLS AWAY. 50 TOTAL
Slow Rate	02/23/2014 05:59		2	224			900.0	
Bump Plug	02/23/2014 06:01		2	234.5 3			1400.0	500 PSI OVER
Check Floats	02/23/2014 06:05							FLOATS HELD, 1.5 BBLS BACK
Drop Opening Device For Multiple Stage Cementer	02/23/2014 06:08							DROP BOMB/ LOAD CLOSING PLUG, WAIT TEN MINS FOR BOMB TO SEAT.
Other	02/23/2014 06:21		1	1			800.0	OPEN TOOL 800 PSI
Pump Spacer 1	02/23/2014 06:25		4	20			440.0	FRESH WATER, GOT CIRCULATION AFTER 4 BBLS
Pump 2nd Stage Tail Slurry	02/23/2014 06:32		6	267			426.0	765 SKS, 12.8 PPG, 1.96 FT3/SK, 10.95 GAL/SK, 5 BOXES OF TOUGH FIBER IN LAST 100 BBLS, GOT BACK TO FRESH WATER RETURNS AT CALCULATED 145 BBLS INTO CEMENT.
Shutdown	02/23/2014 07:23							CIRCULATED 146 BBLS OF CEMENT OFF OF TOOL
Drop Top Plug	02/23/2014 07:24							WASH UP ON TOP OF CLOSING PLUG
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To #: 300721

Ship To #: 3124401

Quote #:

Sales Order #: 901137038

SUMMIT Version: 7.3.0124

Monday, March 03, 2014 01:19:00

HALLIBURTON

Cementing Job Log

Pump Displacement	02/23/2014 07:27		10	97.24			740.0	FRESH WATER, GOT CEMENT RETURNS BACK AT START OF DISPLACEMENT, 97 BBL CEMENT BACK TO SURFACE.
Slow Rate	02/23/2014 07:40		4	87			430.0	
Close Multiple Stage Cementer	02/23/2014 07:43		2	97.24			1500.0	1200 PSI OVER LIFT PSI TO CLOSE MSC
Check Floats	02/23/2014 07:46							TOOL CLOSED, .75 BBL BACK
End Job	02/23/2014 07:48							USED 40 LBS OF SUGAR, NO ADD HOURS
Post-Job Safety Meeting (Pre Rig-Down)	02/23/2014 08:15							ALL HES PERSONEL
Rig-Down Equipment	02/23/2014 08:30							
Rig-Down Completed	02/23/2014 09:45							
Pre-Convoy Safety Meeting	02/23/2014 10:00							ALL HES PERSONEL
Depart Location for Service Center or Other Site	02/23/2014 10:10							THANK YOU FOR CHOOSING HALLIBURTON, KEVIN MILLER AND CREW

Sold To # : 300721

Ship To # : 3124401

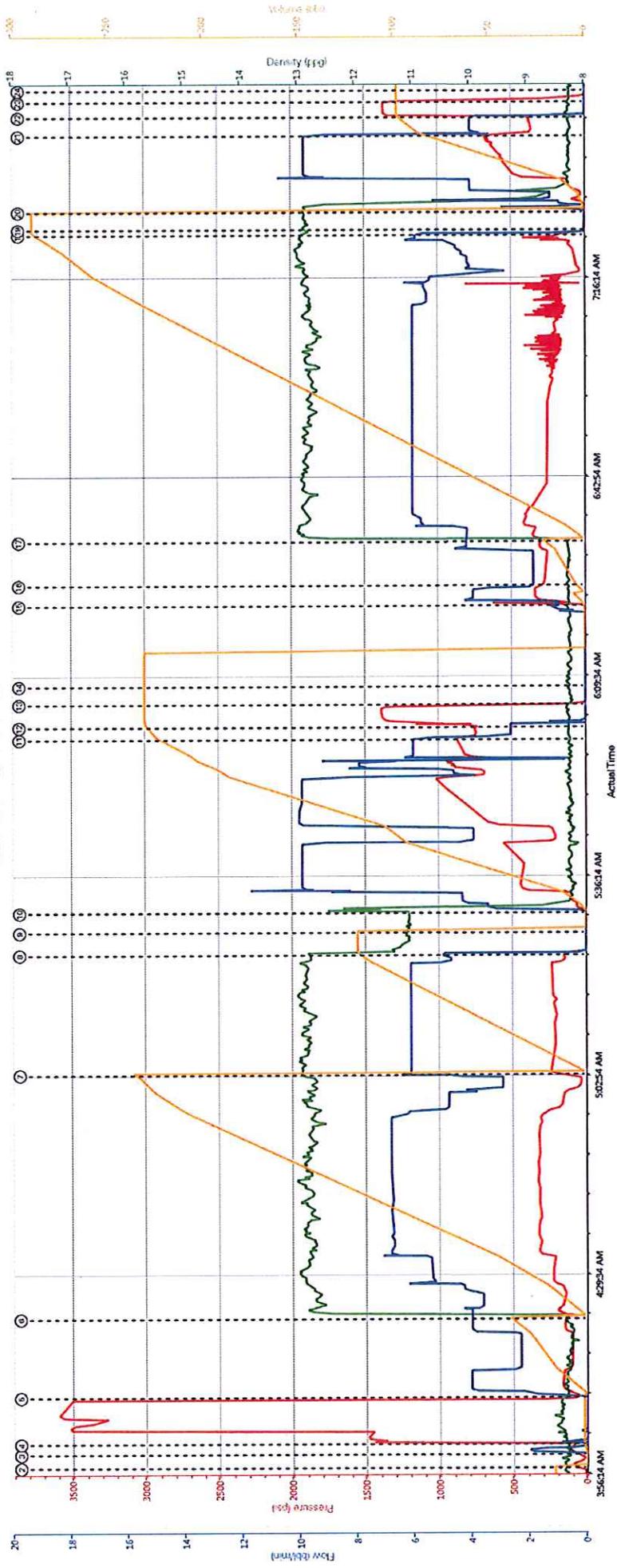
Quote # :

Sales Order # : 901137038

SUMMIT Version: 7.3.0124

Monday, March 03, 2014 01:19:00

9.625" SURFACE-TWO STAGE



- ① Start Job 263.410:2
- ② Start Job 101.0.26.0.0
- ③ Prime Lines 36.0.251.40.7
- ④ Test Lines 1425.0.26.0.1.6
- ⑤ Pump Spacer 1.553.25.0.0.0
- ⑥ Pump Lead Cement 147.0.37.4.3
- ⑦ Pump Lead Cement 232.12.09.6.1.0
- ⑧ Pump Displacement 15.17.52.0.0
- ⑨ Pump Rate 875.8.26.6.14.3
- ⑩ Slowdown 1.31.12.03.2.110.3
- ⑪ Shutoff 1.31.12.03.2.110.3
- ⑫ Drop Wiper Dart 1.81.11.10.119.4
- ⑬ Drop Plug 751.8.29.2.0.239.8
- ⑭ Bump Plug 751.8.29.2.0.239.8
- ⑮ Open Multiple Stage Cement 497.8.27.0.0.1.5
- ⑯ Pump Tail Cement 300.96.8.20.4.17.0.07
- ⑰ Drop opening Plug 16.0.29.0.23.5
- ⑱ Check Floats 1.8.23.0.230.9
- ⑲ Circulate Well 277.6.31.8.2.1
- ⑳ Drop Plug 0.12.0.0.23.0
- ㉑ Pump Displacement 4.12.0.0.0
- ㉒ Pump Rate 400.0.20.4.5.3
- ㉓ Shutoff 84.12.92.0.239.6
- ㉔ Close Multiple Stage Cement 1337.0.33.0.23.5
- ㉕ Check Floats 856.8.20.0.23.2
- ㉖ End Job 14.0.28.0.23.1

HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: KEVIN MILLER
Attention: J.Trout
Lease RG
Well # 511-14-298

Date: 2/23/2014
Date Rec.: 2/23/2014
S.O.# 901137038
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	6.9
Potassium (K)	<i>5000</i>	500 Mg / L
Calcium (Ca)	<i>500</i>	250 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>	72 Deg
Total Dissolved Solids		250 Mg / L

Respectfully: KEVIN MILLER

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 #: 901137038	Line Item: 10	Survey Conducted Date: 2/23/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TED RAGDALE		API / UWI: (leave blank if unknown) 05-103-11809
Well Name: RG		Well Number: 511-14-298
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	2/23/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	KEVIN MILLER (HB11248)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	TED RAGDALE
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	GREAT JOB GUYS THANKS/ WELL DONE!!!

CUSTOMER SIGNATURE

Sales Order #: 901137038	Line Item: 10	Survey Conducted Date: 2/23/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TED RAGDALE		API / UWI: (leave blank if unknown) 05-103-11809
Well Name: RG		Well Number: 511-14-298
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Rio Blanco

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	2/23/2014
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)	9
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)	4
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	4
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

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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT MULTIPLE STAGES BOM
Customer Representative: TED RAGDALE		API / UWI: (leave blank if unknown) 05-103-11809
Well Name: RG		Well Number: 511-14-298
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Rio Blanco

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	97
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	97
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