

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

NER 434-32

Nabors 576

Post Job Summary

Cement Surface Casing

Date Prepared: 04/20/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123449	Quote #:	Sales Order #: 0901268812
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Customer Rep: AL HARTL		
Well Name: FEDERAL	Well #: NER 434-32	API/UWI #: 05-045-21778-00	
Field: RULISON	City (SAP): RIF	County/Parish: GARFIELD	State: COLORADO
Legal Description: 5-7S-93W-168FNL-2598FWL			
Contractor: NABORS DRLG	Rig/Platform Name/Num: NABORS 576		
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HAM2616	Srvc Supervisor: John Keane		
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	1136ft		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
Open Hole Section			13.5				0	1136	0	1136
Casing		9.625	9.001	32.3	8 RD	H-40	0	1166	0	1166

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1166		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625	1				SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					Centralizers	9.625		HES

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			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	Lead Cement	VARICEM (TM) CEMENT		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/min	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	160	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	Displacement	Displacement	88.3	bbl	8.34			10	
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment									

HALLIBURTON



Summary Report

Crew: _____

Job Start Date: 4/13/2014

Sales Order #: 0901268812
WO #: 0901268812
PO/AFE #: NA

Customer: WPX ENERGY ROCKY MOUNTAIN Field:

RULISON

Job Type: CMT SURFACE
CASING BOM

UWI / API Number: 05-045-21778-00

County/Parish: GARFIELD

Service Supervisor: John Peane

Well Name: FEDERAL

State: COLORADO

Well No: NER 434-32

Latitude: 39.474898

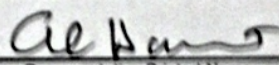
Est Rep Name: AL HARTL

Longitude: -107.798822

Est Rep Phone #:

Sect / Twn / Rng: 5/7/93

Remarks:

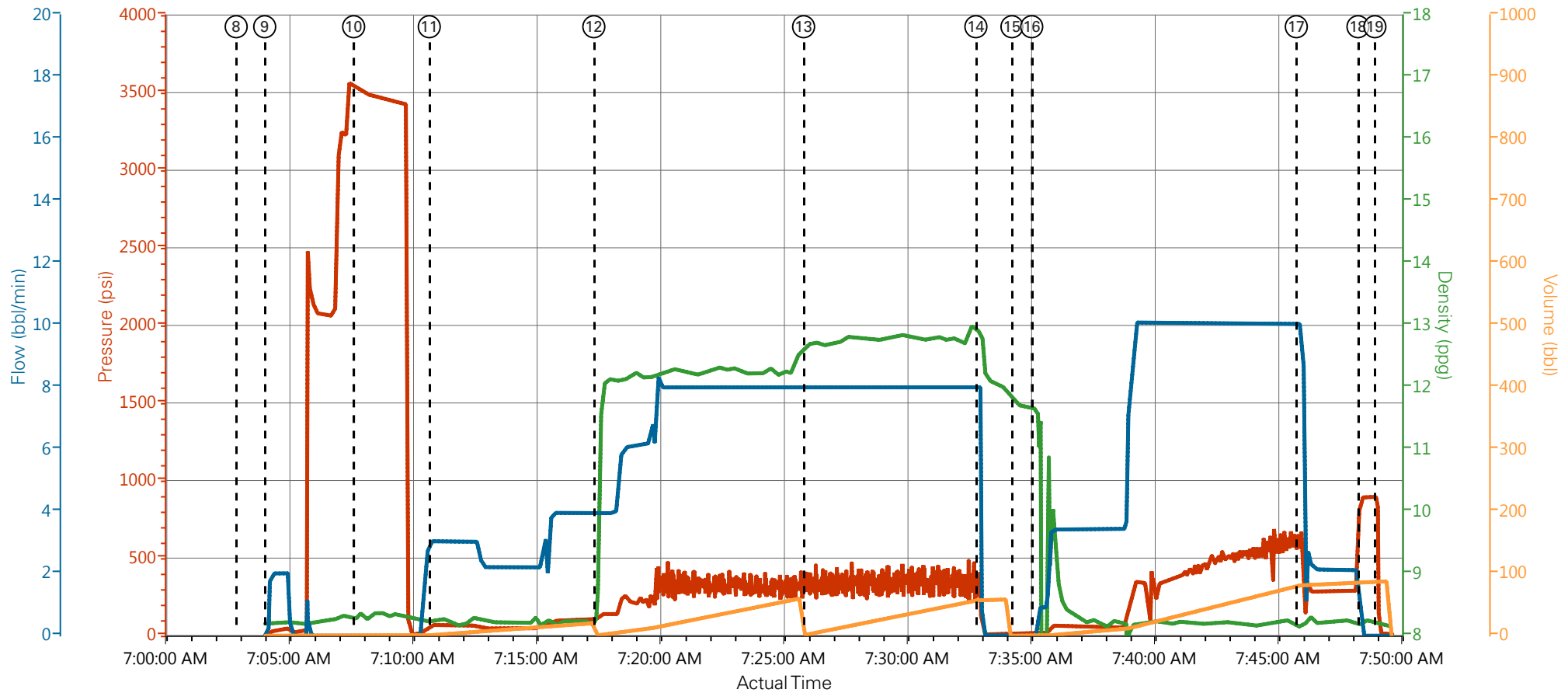
The Information Stated Herein Is Correct	Customer Representative Signature 	Date
	Customer Representative Printed Name	

4.5 Job Event Log

Type	Seq. No.	Graph Label/Activity	Date	Time	Source	Pass-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comment
Event	1	Call Out	4/12/2014	02:00:51	USER					
Event	2	Pre-Convoy Safety Meeting	4/12/2014	04:00:00	USER					WITH HES
Event	3	Arrive At Loc	4/12/2014	06:00:00	USER					RIG ON BOTTOM WITH CASING CIRCULATING UPON HES ARRIVAL
Event	4	Assessment Of Location Safety Meeting	4/12/2014	06:10:00	USER					WITH HES
Event	5	Pre-Rig Up Safety Meeting	4/12/2014	06:15:00	USER					WITH HES
Event	6	Rig-Up Equipment	4/12/2014	06:30:00	USER					
Event	7	Pre-Job Safety Meeting	4/12/2014	06:50:00	USER					WITH HES , WPX , AND NABORS 576
Event	8	Start Job	4/12/2014	07:02:59	USER					TP 1166 FT, TD 1136 FT, SHOE 44.47 FT, HOLE 13.5 IN, MWT 10.5 LB/GAL, CSG 9.625 IN 32.3 LB/FT H-40
Event	9	Prime Pumps	4/12/2014	07:04:08	USER	39	8.33	2	0.0	FILL LINES
Event	10	Test Lines	4/12/2014	07:07:44	USER	3521.73	8.35	0.00	1.7	LOW TEST AT 2200 PSI, HIGH TEST AT 3519 PSI, PRESSURE HOLDING
Event	11	Pump Fresh Water Spacer	4/12/2014	07:10:47	USER	71.68	8.29	4	20	RETURNS AT 2 BBL AWAY
Event	12	Pump Lead Cement	4/12/2014	07:17:26	USER	102.62	8.71	8	59.3	MIXED AT 12.3 LB/GAL, 140 SKS, 2.38 FT3/SK, 13.77 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	13	Pump Tail Cement	4/12/2014	07:25:56	USER	286.37	12.67	8	60.1	MIXED AT 12.8 LB/GAL, 160 SKS, 2.11 FT3/SK, 11.77 GAL/SK, DENSITY VERIFIED USING PRESSURIZED MUD SCALES
Event	14	Shutdown	4/12/2014	07:32:54	USER	272.31	12.91	7.99		
Event	15	Drop Top Plug	4/12/2014	07:34:21	USER	9.80	11.74	0.00	0.0	PLUG LAUNCHED
Event	16	Pump Displacement	4/12/2014	07:35:09	USER	603	11.62	10	77	FRESH WATER
Event	17	Slow Rate	4/12/2014	07:45:51	USER	301	8.13	2	10	SLOWED AT 77 BBL AWAY
Event	18	Bump Plug	4/12/2014	07:48:21	USER	310	8.19	2	88.3	PLUG BUMPED AT CALCULATED DISPLACEMENT
Event	19	Check Floats	4/12/2014	07:49:02	USER	750	8.21	0.00	88.3	FLOATS HOLDING, .5 BBL RETURNED TO THE TRUCK

Event	20	End Job	4/12/2014	07:51:00	USER	GOOD CIRCUALTION, PIPE WAS STATIC, NO ADD HOURS, NO DERRICK CHARGE, RIG USED 40 LBS OF SUGAR, 20 BBL CEMENT CIRCULATED TO SURFACE
Event	21	Pre-Rig Down Safety Meeting	4/12/2014	08:00:00	USER	WITH HES
Event	22	Rig-Down Equipment	4/12/2014	08:10:00	USER	
Event	23	Pre-Convoy Safety Meeting	4/12/2014	08:20:00	USER	WITH HES
Event	24	Crew Leave Location	4/12/2014	08:50:01	USER	
Event	25	Comment	4/12/2014	08:55:02	USER	THANKS FOR USING HALLIBURTON, JOHN KEANE AND CREW

WPX - FEDERAL NER 434-32 - 9.625 IN SURFACE CASING



PS Pump Press (psi) DH Density (ppg) Comb Pump Rate (bbl/min) Pump Stg Tot (bbl)

- | | | |
|---|--|---|
| ① Call Out n/a;n/a;n/a;n/a | ⑩ Test Lines 3521.73;8.35;0;1.72 | ⑲ Check Floats 144.8;8.21;0;87.52 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑪ Pump Fresh Water Spacer 71.68;8.29;3.04;1.05 | ⑳ End Job n/a;n/a;n/a;n/a |
| ③ Arrive At Loc n/a;n/a;n/a;n/a | ⑫ Pump Lead Cement 102.62;8.71;3.96;0.66 | ㉑ Pre-Rig Down Safety Meeting n/a;n/a;n/a;n/a |
| ④ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑬ Pump Tail Cement 286.37;12.67;7.99;2.07 | ㉒ Rig-Down Equipment n/a;n/a;n/a;n/a |
| ⑤ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a | ⑭ Shutdown 272.31;12.91;7.99;57.79 | ㉓ Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a |
| ⑥ Rig-Up Equipment n/a;n/a;n/a;n/a | ⑮ Drop Top Plug 9.8;11.74;0;0 | ㉔ Crew Leave Location n/a;n/a;n/a;n/a |
| ⑦ Pre-Job Safety Meeting n/a;n/a;n/a;n/a | ⑯ Pump Displacement 9.8;11.62;0;0 | ㉕ Comment n/a;n/a;n/a;n/a |
| ⑧ Start Job n/a;n/a;n/a;n/a | ⑰ Slow Rate 538.56;8.13;10.06;80.89 | |
| ⑨ Prime Pumps 19.18;8.19;0.24;0 | ⑱ Bump Plug 885.44;8.19;0;87.52 | |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-04-12 08:06:21, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 4/12/2014 7:03:51 AM

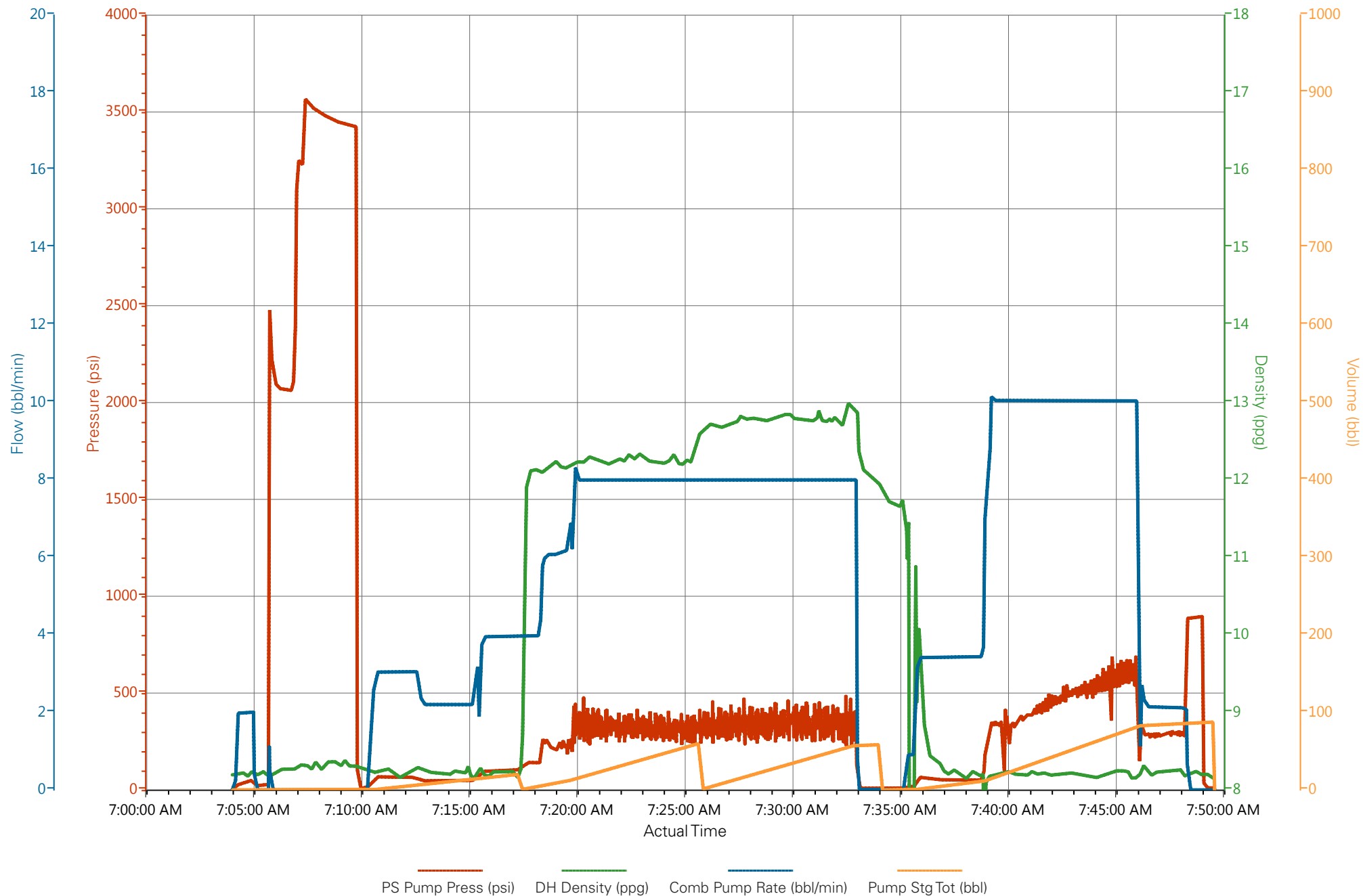
Well: FEDERAL-NER 434-22

Representative: AL HARTL

Sales Order #: 901268812

ELITE 3: JOHN KEANE / ROGER LAULAINEN

WPX - FEDERAL NER 434-32 - 9.625 IN SURFACE CASING



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: JOHN KEANE

Attention: CHUCK ROSS

Lease FEDERAL NER 434-32

Well # NER-434-22

Date: 4/12/2014

Date Rec.: 4/12/2014

S.O.# 901268812

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7.1
Potassium (K)	<i>5000</i>	0 Mg / L
Calcium (Ca)	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	500 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	58 Deg
Total Dissolved Solids		390 Mg / L

Respectfully: JOHN KEANE

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 #: 0901268812	Line Item: 10	Survey Conducted Date: 4/13/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21778-00
Well Name: FEDERAL		Well Number: 0080125496
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	4/13/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB58526
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

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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	4/13/2014

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.	3
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	6
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 #: 0901268812	Line Item: 10	Survey Conducted Date: 4/13/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: AL HARTL		API / UWI: (leave blank if unknown) 05-045-21778-00
Well Name: FEDERAL		Well Number: 0080125496
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	90
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	90
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