

WPX Energy Rocky Mountain LLC-EBUS

RGU 543-7

**Nabors 576**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 2/23/2015  
Job Date: 2/10/2015

Submitted by: Keven Nye – Grand Junction Cement Engineer

## The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3599835	Quote #:	Sales Order #: 0902124346
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Rick Oaks	
Well Name: YOUNBERG RU		Well #: 543-7	API/UWI #: 05-045-22516-00
Field: RULISON	City (SAP): RIFLE	County/Parish: GARFIELD	State: COLORADO
Legal Description: SE SE-7-7S-93W-1162FSL-1181FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 576	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Carlton Kukus	

### Job

Formation Name	
Formation Depth (MD)	Top
Form Type	BHST
Job depth MD	1303ft
Water Depth	
Perforation Depth (MD)	From

### 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	3	9.625	9.001	32.3	8 RD (LT&C)	H-40	0	1303	0	1303
Open Hole Section			13.5				0	1315	0	1315

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1303	Top Plug	9.625	1	HES
Float Shoe	9.625	1			Bottom Plug	9.625		HES
Float Collar	9.625	1		1258.51	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	VariCem GJ1	VARICEM (TM) CEMENT	170	sack	12.3	2.38	13.77	8		

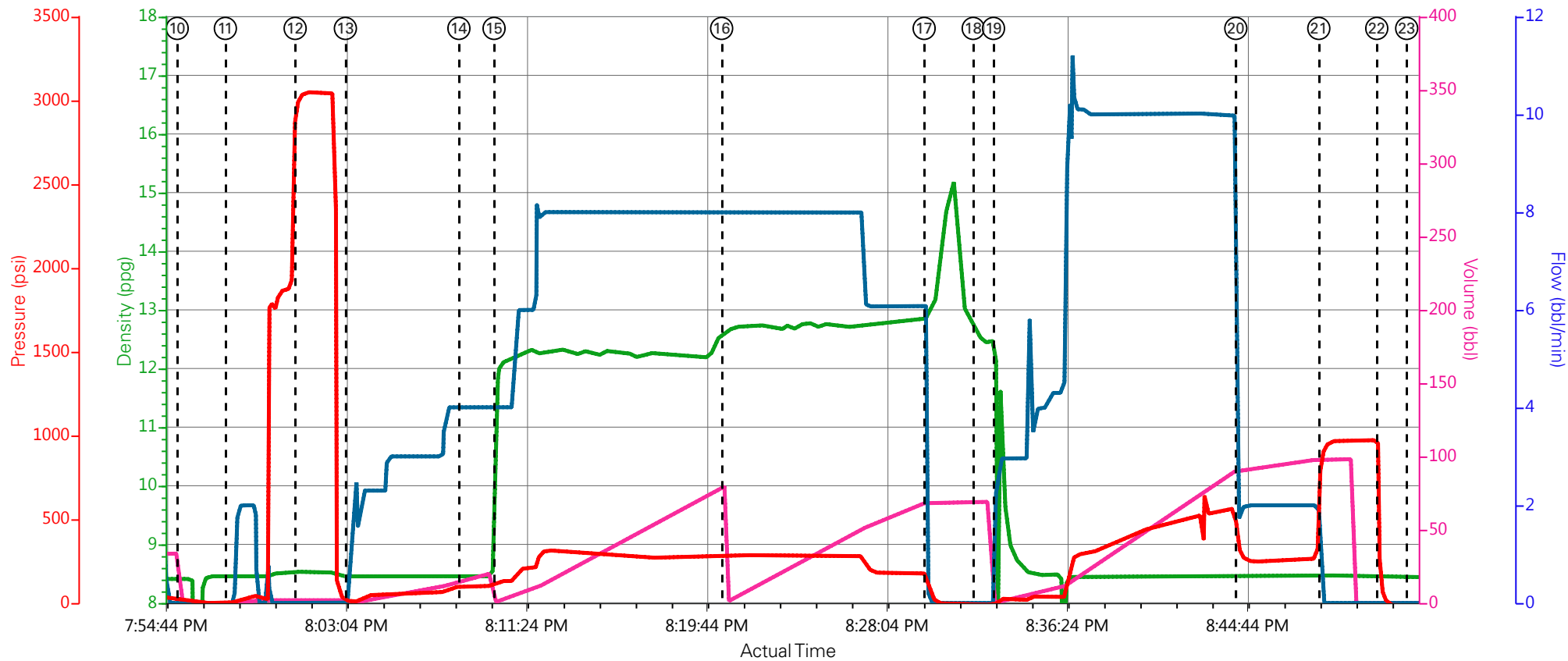
13.70 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ1	VARICEM (TM) CEMENT	175	sack	12.8	2.11	11.77	8	
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	99.1	bbl	8.34			10	
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment 25 BBLS OF CEMENT TO SURFACE, RIG USED 40 POUNDS OF SUGAR									

## 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	2/10/2015	10:00:00	USER					ALL HES
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/10/2015	12:30:00	USER					ALL HES
Event	3	Crew Leave Yard	Crew Leave Yard	2/10/2015	13:00:00	USER					1-F-550 PICKUP, 1-ELITE PUMP TRUCK, 2-660 BULK TRUCKS
Event	4	Arrive At Loc	Arrive At Loc	2/10/2015	15:00:00	USER					HES ARRIVED 30 MINS EARLY
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	2/10/2015	15:10:00	USER					RIG WAS RUNNING CASING, HES WAITED TO SPOT EQUIPMENT AND RIG UP
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/10/2015	16:30:00	USER					ALL HES
Event	7	Rig-Up Equipment	Rig-Up Equipment	2/10/2015	16:45:00	USER					RIG UP IRON TO STAND PIPE, BULK TRUCKS TO PUMP TRUCK, WATER HOSES TO UPRIGHT AND DAY TANK
Event	8	Rig-Up Completed	Rig-Up Completed	2/10/2015	17:00:00	USER					COMPLETED
Event	9	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/10/2015	17:10:00	USER					ALL HES AND RIG CREW
Event	10	Start Job	Start Job	2/10/2015	19:55:23	COM5					TD: 1315FT TP: 1302.65FT SJ: 44.14FT OH: 13.5 CSG: 9.625 32.3# H-40 MUD WT: 9.8 VISC: 60
Event	11	Prime Pumps	Fill Lines	2/10/2015	19:57:37	COM5	8.34	47	2	2	FILL LINES TO PRESSURE TEST

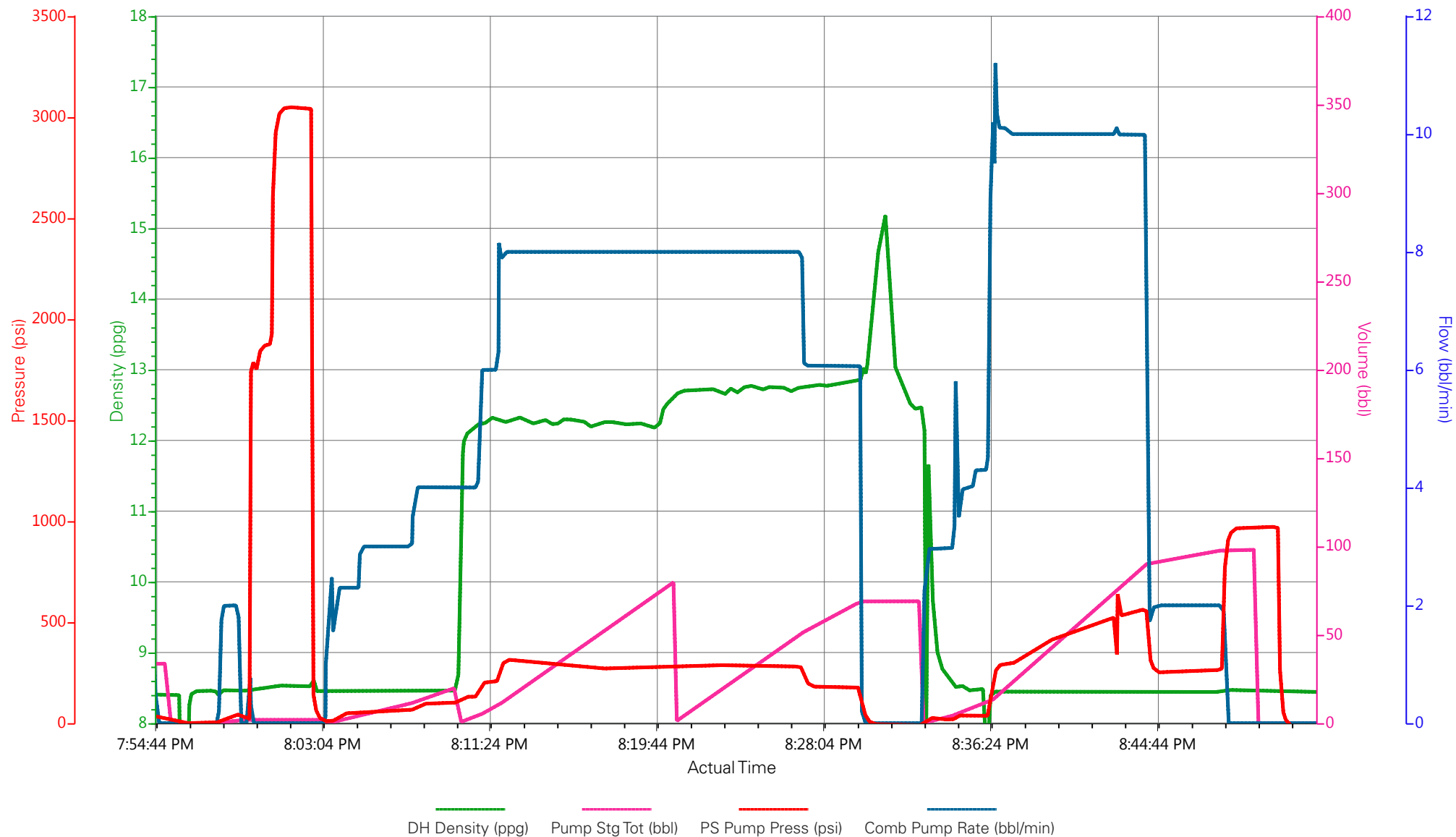
Event	12	Test Lines	Test Lines	2/10/2015	20:00:50	COM5	8.34	3050	2		PRESSURE TEST LINES TO 3000 PSI, PRESSURE TEST OK
Event	13	Pump Spacer 1	Fresh Water Spacer	2/10/2015	20:03:10	COM5	8.34	102	20	4	20 BBL FRESH WATER SPACER
Event	14	Check Weight	Check weight	2/10/2015	20:08:25	COM5					CHECKED WEIGHT OF CEMENT
Event	15	Pump Lead Cement	Pump Lead Cement	2/10/2015	20:10:02	COM5	12.3	304	72.1	8	170 SKS OF VARICEM CEMENT 12.3PPG 2.38YIELD 13.77GAL/SK WEIGHT OF CEMENT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Event	16	Pump Tail Cement	Pump Tail Cement	2/10/2015	20:20:34	COM5	12.8	280	65.7	8	175 SKS OF VARICEM CEMENT 12.8PPG 2.11YIELD 11.77GAL/SK WEIGHT OF CEMENT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Event	17	Shutdown	Shutdown	2/10/2015	20:29:56	USER	12.8		65.7		SHUTDOWN END OF CEMENT
Event	18	Shutdown	Drop Top Plug	2/10/2015	20:32:12	COM5					PLUG AWAY NO PROBLEMS
Event	19	Pump Displacement	Pump Displacement	2/10/2015	20:33:08	COM5	8.34	565	89.1	10	HES WASHED UP ON TOP OF PLUG, FRESH WATER SPACER
Event	20	Other	Slow Rate	2/10/2015	20:44:20	COM5	8.44	240	10	2	SLOW RATE TO BUMP PLUG
Event	21	Bump Plug	Bump Plug	2/10/2015	20:48:11	COM5	8.47	250	99.1	2	BUMPED PLUG AT 250 PSI, TOOK TO 950 PSI
Event	22	Other	Other	2/10/2015	20:50:51	COM5		972			FLOATS HELD .5 BBL BACK TO TANKS, 25 BBLS

							OF CEMENT TO SURFACE, RIG USED 40 POUND OF SUGAR
Event	23	End Job	End Job	2/10/2015	20:52:15	COM5	THANK YOU FOR CHOOSING HALLIBURTON CEMENT CARL KUKUS AND CREW
Event	24	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	2/10/2015	21:08:13	USER	ALL HES
Event	25	Rig-Down Equipment	Rig-Down Equipment	2/10/2015	21:15:00	USER	WASH UP AND BLOW DOWN PUMP TRUCK, RIG DOWN AND RACK UP ALL LINES
Event	26	Rig-Down Completed	Rig-Down Completed	2/10/2015	21:30:00	USER	COMPLETED
Event	27	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/10/2015	21:45:00	USER	ALL HES
Event	28	Crew Leave Location	Crew Leave Location	2/10/2015	22:00:00	USER	1-F-550 PICKUP, 1-ELITE PUMP TRUCK, 2-660 BULK TRUCKS



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

① Call Out n/a;n/a;n/a;n/a	⑪ Fill Lines 8.46;0;0;0	21 Bump Plug 8.47;98.1;885.07;0
② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a	⑫ Test Lines 8.53;1.9;3010;0	22 Other 8.45;0;137;0
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑬ Fresh Water Spacer 8.46;0;10;0	23 End Job 8.44;0;-19;0
④ Arrive At Loc n/a;n/a;n/a;n/a	⑭ Check weight 8.46;15;99;4	24 Pre-Rig Down Safety Meeting n/a;n/a;n/a;n/a
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑮ Pump Lead Cement 11.87;1.1;121;4	25 Rig-Down Equipment n/a;n/a;n/a;n/a
⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑯ Pump Tail Cement 12.61;0.1;274;8	26 Rig-Down Completed n/a;n/a;n/a;n/a
⑦ Rig-Up Equipment n/a;n/a;n/a;n/a	⑰ Shutdown 12.85;69;139;1.9	27 Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a
⑧ Rig-Up Completed n/a;n/a;n/a;n/a	⑱ Drop Top Plug 12.67;69;-10;0	28 Crew Leave Location n/a;n/a;n/a;n/a
⑨ Pre-Job Safety Meeting n/a;n/a;n/a;n/a	⑲ Pump Displacement 10.06;0.3;0;2.5	
⑩ Start Job 8.41;0;27;0	20 Slow Rate 8.44;90.8;315;2	





# HALLIBURTON

## Water Analysis Report

Company: WPX

Submitted by: Carl Kukus

Attention: J.Trout

Lease YOUBERG

Well # RU 543-7

Date: 1/10/2015

Date Rec.: 1/10/2015

S.O.# 902124346

Job Type: Surface

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>200</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>3</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>0</b> Mg / L
Temp	<i>40-80</i>	<b>60</b> Deg
Total Dissolved Solids		<b>250</b> Mg / L

Respectfully: Carl Kukus

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 if

<b>Sales Order #:</b> 0902124346	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/10/2015
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RICK OAKS		<b>API / UWI: (leave blank if unknown)</b> 05-045-22516-00
<b>Well Name:</b> YOUBERG RU		<b>Well Number:</b> 0080688957
<b>Well Type:</b> DIRECTIONAL GAS	<b>Well Country:</b> USA	
<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> 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	2/10/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB44726
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RICK OAKS
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	

<b>CUSTOMER SIGNATURE</b>
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*KEY PERFORMANCE INDICATORS*

General	
<b>Survey Conducted Date</b> The date the survey was conducted	2/10/2015

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Pumping Hours</b> Total number of hours pumping fluid on this job. Enter in decimal format.	1
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Was this a Primary Cement Job (Yes / No)</b> Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Customer Non-Productive Rig Time (hrs)</b>	0

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<b>H2S Present:</b> No	<b>Well State:</b> COLORADO	<b>Well County:</b> GARFIELD

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.	
<b>Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?</b> Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>If a top plug was run, was the plug bumped? (Yes/No/N/A)</b> If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
<b>If applicable, was Halliburton float equipment used? (Yes/No/N/A)</b> If applicable, was Halliburton float equipment used? (Yes/No/N/A)	Not Available
<b>If applicable, did the floats hold? (Yes/No/N/A)</b> If applicable, did the floats hold? (Yes/No/N/A)	Yes
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	90
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	8
<b>If applicable, were there returns throughout the job? (Yes/No/N/A)</b> If applicable, were there returns throughout the job? (Yes/No/N/A)	Yes
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0