

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 532-21

**NABORS/576**

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 02/24/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety											
Sold To #: <b>300721</b>			Ship To #: <b>3123600</b>			Primary Sales Order #: <b>0901143252</b>					
Customer: <b>WPX ENERGY ROCKY MOUNTAIN LLC-EBUS</b>						Job Purpose: <b>7521 CMT SURFACE CASING BOM</b>					
Well Name: <b>FEDERAL</b>						Well #: <b>PA 532-21</b>			API/UWI #: <b>05-045-22034-00</b>		
Field: <b>PARACHUTE</b>			City: <b>PAR</b>			Country/Parish: <b>GARFIELD</b>			State/Prov: <b>COLORADO</b>		
Legal Description:											
Rig Name & Number / Phone Number: <b>NABORS 576 / 970-210-2167</b>									Location: <b>LAND</b>		
myCem id# :			Job Criticality Status: <b>GREEN</b>			iFacts Request id #:					
PPE, Safety Huddles, JSA's, HOC & Near Miss Reporting, BBP Observations											
Distance/Mileage(1 way) Srvc: <b>30 mile</b>						Distance/Mileage(1 way) Mtls: <b>60 mile</b>					
						Rqstd Job Start Date/Time: <b>02/25/2014</b>					
HSE Information											
H2S Present:			<b>Unknown</b>			CO2 Present:			<b>Unknown</b>		
<b>Drive Safely. Lights On for Safety. Wear Seat Belts. Observe all HES / Customer Safety Policies.</b>											
Directions: I-70 East to Parachute exit turn left over interstate, turn right onto frontage road and go 3.3 miles turn left, go .3 miles turn left, go 1.3 miles to Y stay left, go 1.1 miles to Y stay left, go .6 miles up hill turn left go .1 of a mile onto location											
CHAIN UP BEFORE GOING UP HILL AND CALL FOR BLADE TO BE READY											
Instruction											
MAKE SURE TO TAKE 100 LBS OF SUGAR AND TOP PLUG											
Job Info / Well Data											
Job Depth (MD) ft		Job Depth (TVD) ft		Well Fluid Type		Well Fluid Weight lbm/gal		Displacement Fluid		Displ Fluid Weight lbm/gal	
<b>1700</b>								<b>Displacement</b>		<b>8.3</b>	
BHST degF		BHCT degF		Log Temp degF				Time Since Circ Stopped HH:MM:SS			
Job Tubulars/Tools											
Description	Size in	Weight lbm/ft	ID in	Thread	Grade	Top MD ft	Btm MD ft	Top TVD ft	Btm TVD ft	Shoe Jnt ft	% Excess
<b>Surface Open Hole</b>			<b>13.5</b>			<b>0</b>	<b>1700</b>				
<b>Surface Casing</b>	<b>9.625</b>	<b>32.3</b>	<b>9.001</b>			<b>0</b>	<b>1700</b>			<b>40</b>	
Materials											
Stage/Plug #: <b>1</b>											
Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft3/ Sack/Ton	Water Req Gal/Sack/Ton	Rate bbl/min	Total Mix Fluid Gal/Sack/Ton	Surface Batch Mixing Time	
<b>1</b>	<b>Fresh Water Spacer</b>		<b>20</b>	<b>bbl</b>	<b>8.33</b>			<b>8</b>			
iFacts Test id #											

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft3/ Sack/Ton	Water Req Gal/Sack/Ton	Rate bbl/min	Total Mix Fluid Gal/Sack/Ton	Surface Batch Mixing Time hr
2	Lead Cement	VARICEM (TM) CEMENT	265	Sack/Ton	12.3	2.38	13.77	8	13.77	

iFacts Test id #

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft3/ Sack/Ton	Water Req Gal/Sack/Ton	Rate bbl/min	Total Mix Fluid Gal/Sack/Ton	Surface Batch Mixing Time hr
3	VersaCem Tail	VERSACEM (TM) SYSTEM	175	Sack/Ton	12.8	2.11	11.77	8	11.77	

94 lbm Type I-II Cement Pre-Mix Dry

iFacts Test id #

Fluid #	Fluid Name	Package/SBM/Material Name	Rqstd Del Qty	UOM	Density lbm/gal	Yield ft3/ Sack/Ton	Water Req Gal/Sack/Ton	Rate bbl/min	Total Mix Fluid Gal/Sack/Ton	Surface Batch Mixing Time
4	Displacement		126.7	bbl	8.3					

iFacts Test id #

Caution: Displacement quantities and densities are estimates ONLY! Do not use them for the actual job.

#### Packaged Materials

SAP #	Material	Qty	UOM	Comments
	FRESH WATER	5708.8	Gal	

#### Casing Equipment

#### Inventory Materials

SAP #	Name	Qty	UOM
101214575	PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1.000	EA
101507884	Sugar, Granulated, 10 lb bag	100.000	LB
101439798	Cem-Type I/II Cement, Bulk	175.000	SK
100064022	Chem- Calseal 60 (Bulk)	4.000	SK
100001580	CHEM, ECONOLITE-ADDITIVE, 50 LB BAG	329.000	LB
100003695	CHEM, SALT,CEM GR,BULK	987.000	LB
101376573	CHEM, Versaset, 55 lb sack	50.000	LB

102068797	CHEM, D-AIR 5000, 50 LB SACK	42.000	LB
101216940	CHEM, Pol-E-Flake, 25 lb bag	44.000	LB
101439798	Cem-Type I/II Cement, Bulk	265.000	SK
100064022	Chem- Calseal 60 (Bulk)	5.000	SK
100001580	CHEM, ECONOLITE-ADDITIVE, 50 LB BAG	499.000	LB
101376573	CHEM, Versaset, 55 lb sack	75.000	LB
100003695	CHEM, SALT,CEM GR,BULK	1495.000	LB
102068797	CHEM, D-AIR 5000, 50 LB SACK	63.000	LB
101216940	CHEM, Pol-E-Flake, 25 lb bag	67.000	LB
General Equipment			
Type	Name	Qty	Comment
Top Plug	9 5/8" HWE Top Plug	1	
Swedge	9 5/8" 8rd	1	
Plug Container	9 5/8"	1	
Bulk Truck		2	
Pump Truck		1	
Contacts			
Type	Name	Email	Phone
Service Coordinator	Semisi Pauu	Semisi.Pauu@halliburton.com	+13036554858
Account Rep	Allison Cormier	Allison.Cormier@halliburton.com	+13036752452

#### Pre-Job Customer Review Risk Assessment for Call Sheet:

The following risks must be reviewed and discussed with the Customer Representative before the job. If all of the steps of the listed Mitigation Plans or Contingency Plans cannot be followed, conducting a Management of Change (reference ST-GL-HAL-HMS-712) invoking your Stop Work Authority (reference ST-GL-HAL-HSE-0612) may be appropriate. Contact the Halliburton office to discuss how to resolve any issues, including whether Contingency Plans can be applied or whether you should exercise your Stop Work Authority so that any changes can be managed with the Customer. Reminder: You are empowered to exercise Stop Work Authority any time (reference ST-GL-HAL-

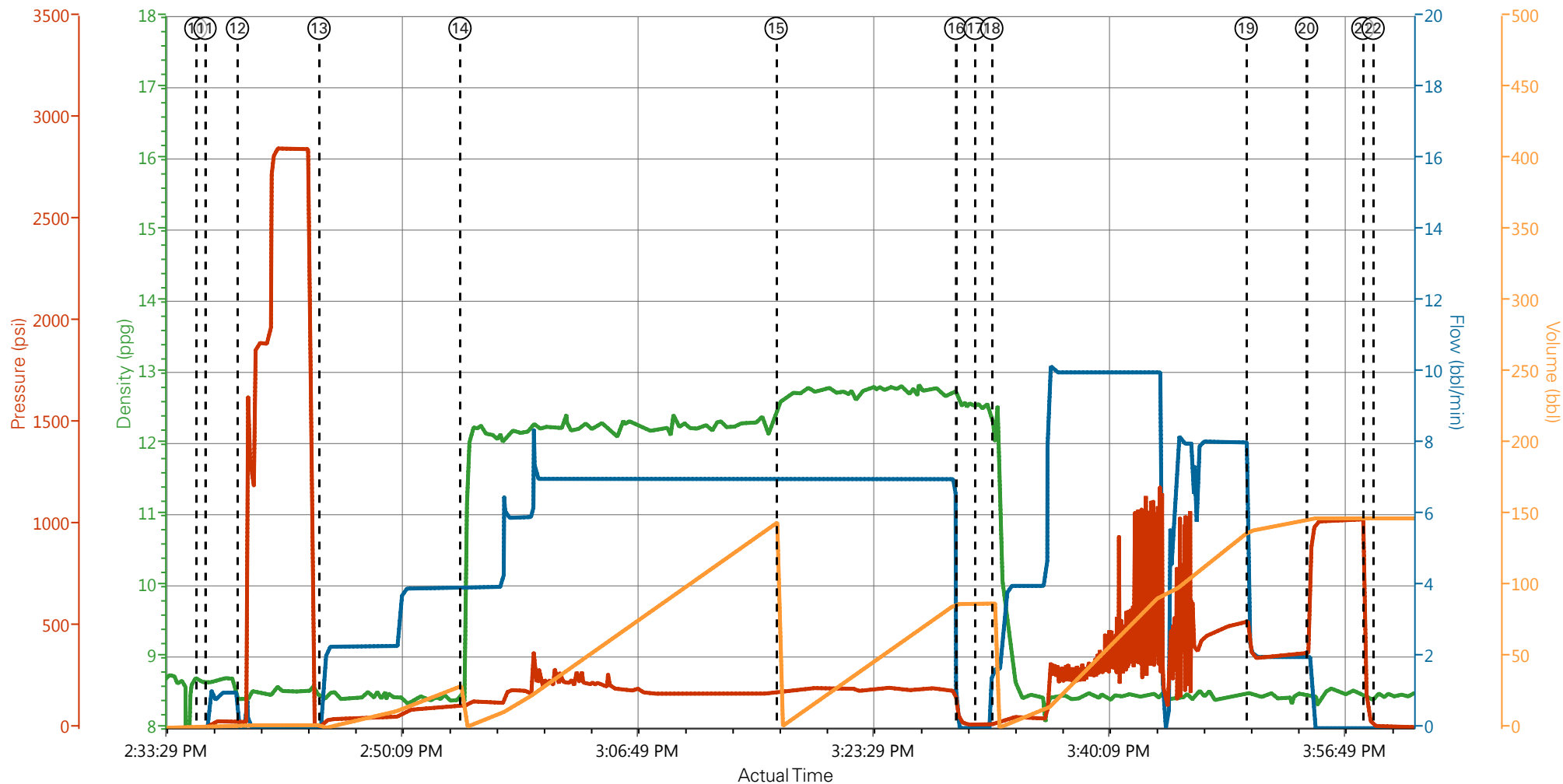
**HALLIBURTON**

## 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	Call Out	2/27/2014	03:30:00	USER					CREW CALLED OUT, CREW WAITING IN FIELD FOR JOB TO CALL.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/27/2014	05:45:00	USER					DISCUSSED ROUTE TO LOCATION AND SAFETY WHILE DRIVING.
Event	3	Crew Leave Yard	Crew Leave Yard	2/27/2014	06:00:00	USER					
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	2/27/2014	09:30:00	USER					RIG RIGGING UP CASING CREW. MET WITH COMPANY REP.
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	2/27/2014	09:45:00	USER					
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/27/2014	10:09:54	USER					DISCUSSED RIG UP AND SAFETY WHILE RIGGING UP IRON.
Event	7	Rig-Up Equipment	Rig-Up Equipment	2/27/2014	10:10:04	USER					1 ELITE #7, 2 660 BULK TRUCKS, 1 HARD LINE TO FLOOR, 2 LINES TO UPRIGHT, 1 9 5/8 COMPACT CEMENT HEAD.
Event	8	Rig-Up Completed	Rig-Up Completed	2/27/2014	10:10:16	USER					
Event	9	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/27/2014	10:10:25	USER					DISCUSSED JOB PROCEDURES AND SAFETY DURING THE JOB.
Event	10	Start Job	Start Job	2/27/2014	14:35:50	COM5	8.62	0.00	-1.00	0.0	TD 1715, TP 1700, SJ 44, OH 13 1/2" CASING 9 5/8" 32.3# H-40, MUD 10.1 PPG
Event	11	Prime Pumps	Prime Pumps	2/27/2014	14:36:29	USER	8.66	0.00	3.00	0.0	FILL LINES WITH 2 BBL FRESH WATER
Event	12	Test Lines	Test Lines	2/27/2014	14:38:46	COM5					TESTED LINES TO 2850, GOOD TEST NO LEAKS.
Event	13	Pump Spacer 1	Pump Spacer 1	2/27/2014	14:44:32	COM5					30 BBL FRESH WATER SPACER.

Event	14	Pump Lead Cement	Pump Lead Cement	2/27/2014	14:54:30	COM5					112.2 BBL.'S LEAD CEMENT 12.3 PPG 265 SKS, 2.38 CF3, 13,75 GAL/SK.
Event	15	Pump Tail Cement	Pump Tail Cement	2/27/2014	15:16:51	COM5					65.7 BBL.'S TAIL CEMENT 12.8 PPG 175 SKS, 2.11 CF3, 11,75GAL/SK.
Event	16	Shutdown	Shutdown	2/27/2014	15:29:34	USER	12.52	0.00	46.00	87.2	
Event	17	Drop Plug	Drop Plug	2/27/2014	15:30:55	USER	12.52	0.00	17.00	87.2	PLUG LEFT CONTAINER
Event	18	Pump Displacement	Pump Displacement	2/27/2014	15:32:06	COM5					120.3 BBL.'S FRESH WATER DISPLACEMENT PUMPED AT 8 BBL/MIN. HIT KICK OUTS AT 10 BBL/MIN SLOWED RATE TO 8 BBL/MIN FOR REMAINDER OF DISPLACEMENT
Event	19	Slow Rate	Slow Rate	2/27/2014	15:50:05	USER	8.45	2.40	436.00	138.5	SLOWED RATE FOR LAST 10 BBL.'S OF DISLACEMENT PRIOR TO BUMPING THE PLUG.
Event	20	Bump Plug	Bump Plug	2/27/2014	15:54:22	COM5	8.47	2.00	551.00	147.2	BUMPED PLUG WITH 130.3 BBL.'S OF DISPLACEMENT GONE. GOT 25 BBL.'S OF GOOD CEMENT TO SURFACE.
Event	21	Check Floats	Check Floats	2/27/2014	15:58:21	USER	8.43	0.00	150.00	147.4	CHECKED FLOATS GOT 1/2 BBL BACK. FLOATS HELD.
Event	22	End Job	End Job	2/27/2014	15:59:04	COM5					END JOB.
Event	23	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	2/27/2014	16:05:00	USER					DISCUSSED JOB AND RIG DOWN OF EQUIPMENT,
Event	24	Rig-Down Equipment	Rig-Down Equipment	2/27/2014	16:10:00	USER					
Event	25	Rig-Down Completed	Rig-Down Completed	2/27/2014	17:00:00	USER					
Event	26	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/27/2014	17:15:00	USER					DISCUSSED ROUTE AND SAFETY WHILE DRIVING.
Event	27	Crew Leave Location	Crew Leave Location	2/27/2014	17:30:00	USER					THANK YOU FOR USING HALLIBURTON, ED ARNOLD AND CREW.

# WPX - PA 532-21 - 9 5/8 SURFACE



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

① Call Out n/a;n/a;n/a;n/a	⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑪ Prime Pumps 8.65;0;4;0	⑯ Shutdown 12.52;0;46;87.2	21 Check Floats
② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a	⑦ Rig-Up Equipment n/a;n/a;n/a;n/a	⑫ Test Lines 8.44;0;29;1.9	⑰ Drop Plug 12.52;0;17;87.2	22 End Job 8.48
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑧ Rig-Up Completed n/a;n/a;n/a;n/a	⑬ Pump Spacer 1 8.43;0;14;0	⑱ Pump Displacement 12.04;1.6;25.14;0	23 Pre-Rig Down
④ Arrive at Location from Service Center n/a;n/a;n/a;n/a	⑨ Pre-Job Safety Meeting n/a;n/a;n/a;n/a	⑭ Pump Lead Cement 8.38;4;111;30.2	⑲ Slow Rate 8.45;2.4;436;138.5	24 Rig-Down Eq
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑩ Start Job 8.62;0;-1;0	⑮ Pump Tail Cement 12.57;7;175.52;0.15	20 Bump Plug 8.47;2;584;147.3	25 Rig-Down Co

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Created: 2014-02-27 10:05:20, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 2/27/2014 2:07:50 PM

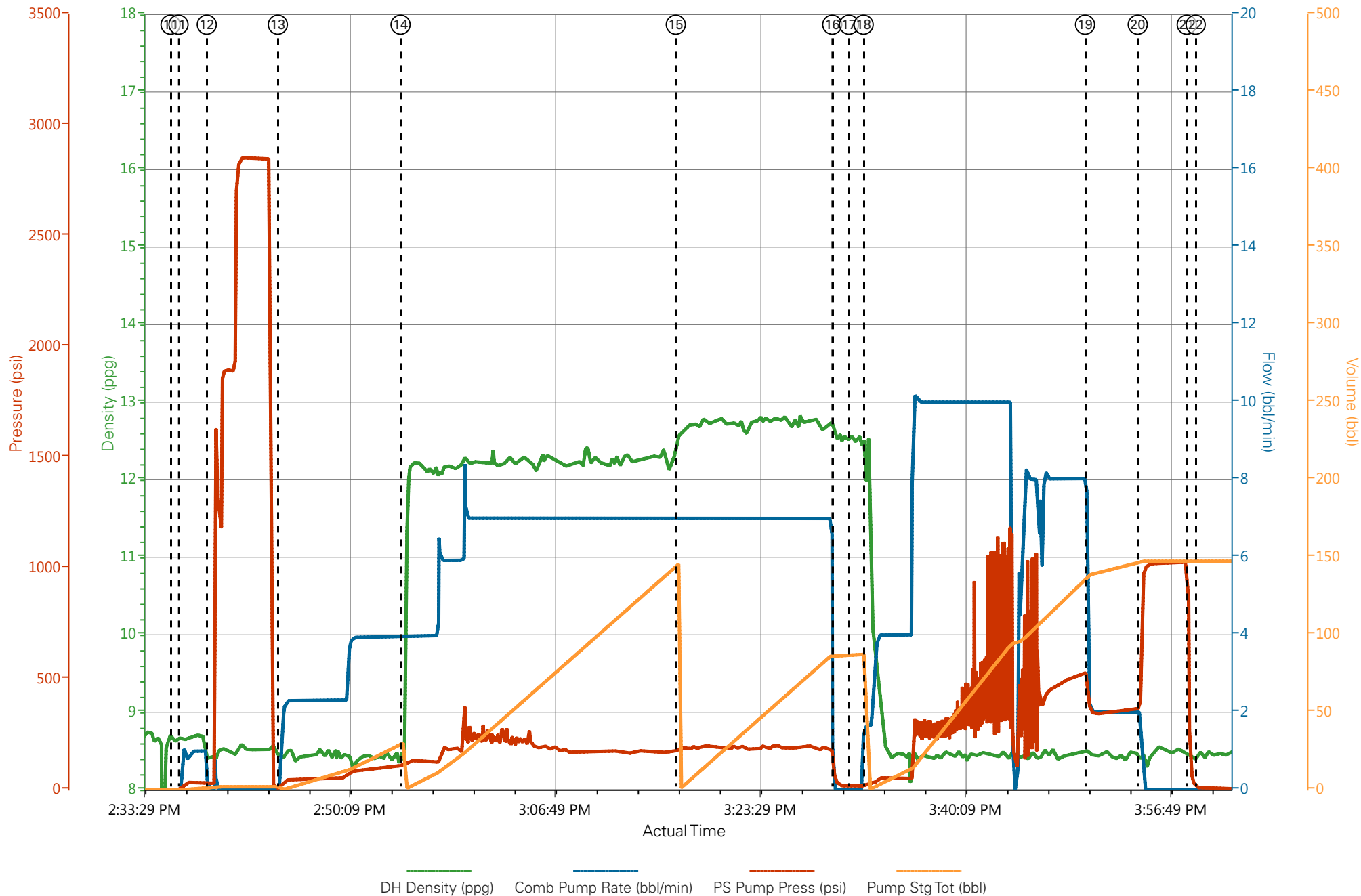
Well: PA 532-21

Representative: RON TOWERS

Sales Order #: 0901143252

ELITE #7: ED ARNOLD / TRAVIS B. / ANDRW S.

# WPX - PA 532-21 - 9 5/8 SURFACE





# Water Analysis Report

Company:	WPX	Date:	2/27/2014
Submitted by:	ED ARNOLD	Date Rec.:	2/27/2014
Attention:		S.O.#	901143252
Lease	PA	Job Type:	SURFACE
Well #	532-21		

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

Respectfully: ED ARNOLD

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

<b>Sales Order #:</b> 0901143252	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 2/27/2014
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> RON TOWERS		<b>API / UWI: (leave blank if unknown)</b> 05-045-22034-00
<b>Well Name:</b> FEDERAL		<b>Well Number:</b> 0080125678
<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	2/27/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX46731
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RON TOWERS
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	2/27/2014

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.	5
<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>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	3
<b>Customer Non-Productive Rig Time (hrs)</b> 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
<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	5
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<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	99
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<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	99
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<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