

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

SG 14-22

H&P/318

Post Job Summary

Cement Surface Casing

Date Prepared: 05/01/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3189567	Quote #:	Sales Order #: 0901180419
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: WC WILLISON	
Well Name: BOSELY	Well #: SG 14-22	API/UWI #: 05-045-22124-00	
Field: GRAND VALLEY	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: 22-7S-96W-638FSL-1521FWL			
Contractor:		Rig/Platform Name/Num: H&P 318	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Edward Arnold	
Job			

Formation Name			
Formation Depth (MD)	Top	Bottom	1280ft
Form Type	BHST		
Job depth MD	1268ft	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
Casing		9.625	9.001	32.3	8 RD	H-40	0	1268	0	0
Open Hole Section			13.5				0	1280	0	1082

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	9.625	0		1268	Top Plug	9.625	1	HES	
Float Shoe	9.625	0			Bottom Plug	9.625	0	HES	
Float Collar	9.625	0			SSR plug set	9.625	0	HES	
Insert Float	9.625	0			Plug Container	9.625	1	HES	
Stage Tool	9.625	0			Centralizers	9.625	0	HES	

Miscellaneous Materials										
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	Treatment Fld	Conc	Inhibitor	Conc
					Size					

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	170	Sack/Ton	12.3	2.38		7	13.77	
13.70 Gal			FRESH WATER							

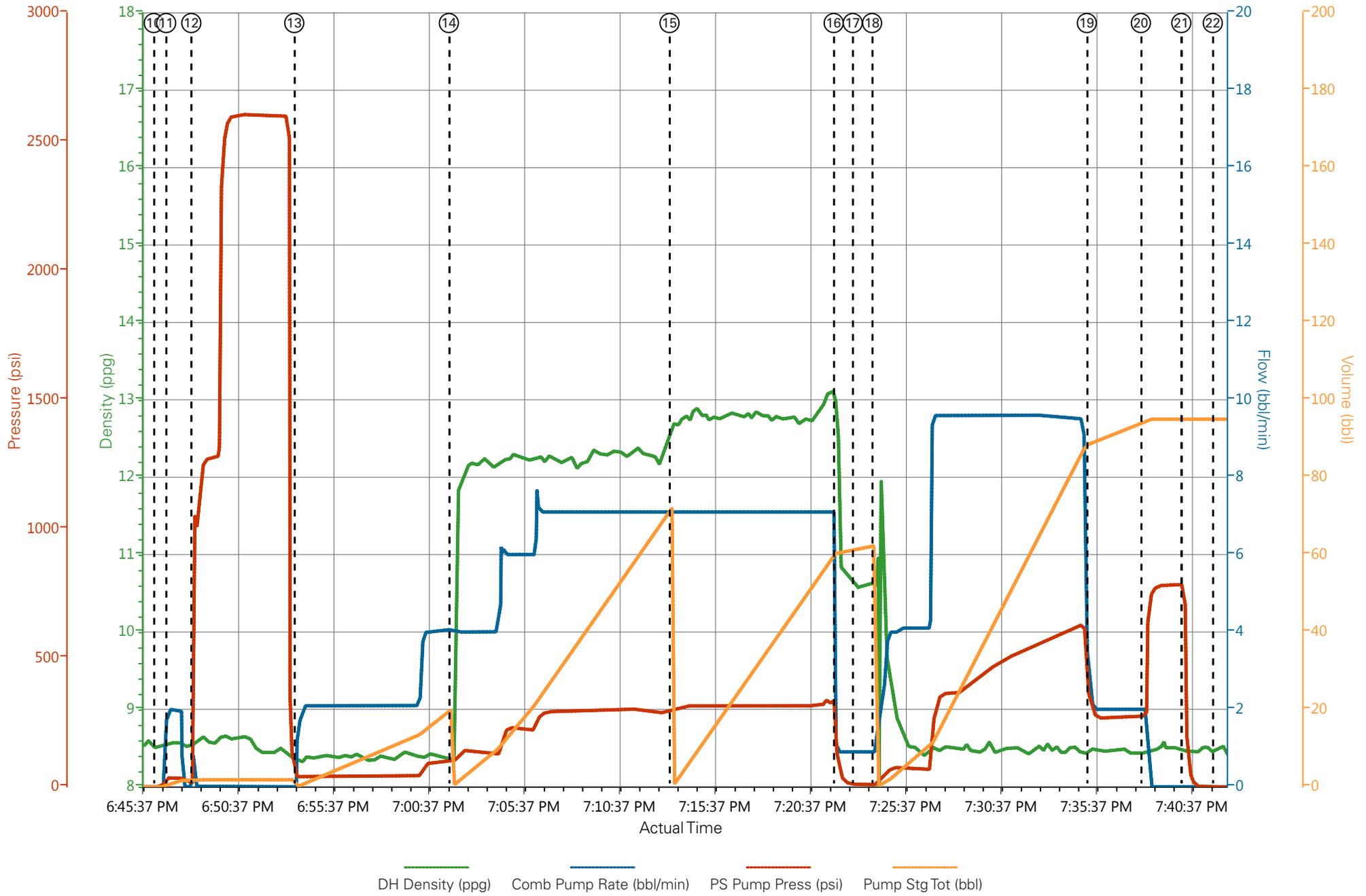
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	Tail Cement	VARICEM (TM) CEMENT	160	Sack/Ton	12.8	2.11		7	11.77	
11.71 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	Displacement	Displacement	96.9	bbl	8.34			10		
Cement Left In Pipe		Amount	34 ft		Reason			Shoe Joint		
Comment										

1.1 Job Event Log

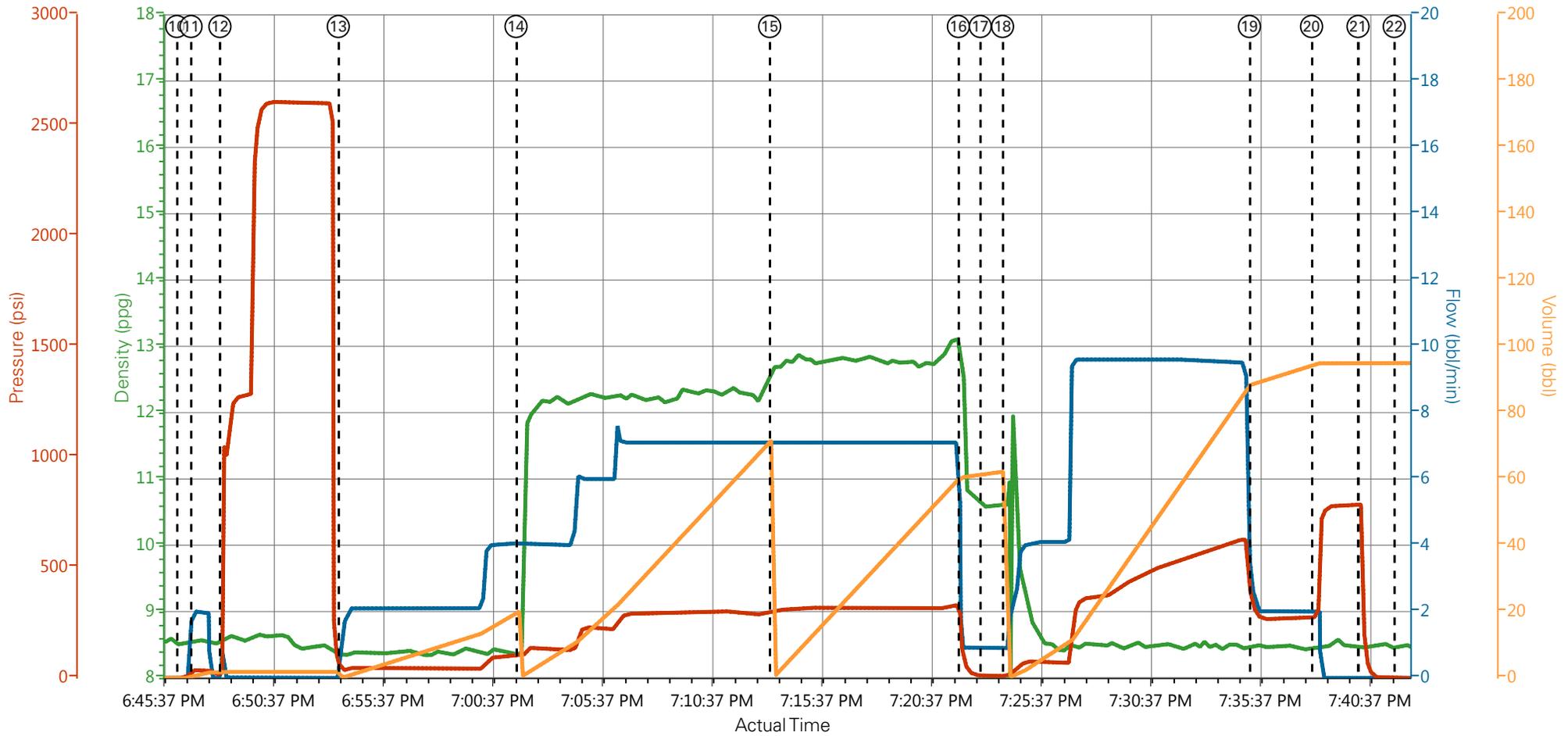
Type	Seq No.	Activity/Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	3/10/2014	06:30:00	USER					CREW IN FIELD WAITING FOR JOB, CALLED OUT AT 0630.
Event	2	Pre-Convoy Safety Meeting	3/10/2014	09:15:00	USER					DISCUSSED ROUTE HAZARDS AND SAFETY.
Event	3	Crew Leave Yard	3/10/2014	09:30:00	USER					
Event	4	Arrive at Location from Service Center	3/10/2014	11:00:00	USER					ARRIVED AT LOCATION, RIG PULLING DRILL PIPE.
Event	5	Assessment Of Location Safety Meeting	3/10/2014	16:30:00	USER					
Event	6	Pre-Rig Up Safety Meeting	3/10/2014	16:45:00	USER					DISCUSSED RIG UP HAZARDS AND SAFETY.
Event	7	Rig-Up Equipment	3/10/2014	16:50:00	USER					1 ELITE #4, 1 660 BULK TRUCK, 1 HARD LINE TO FLOOR, 1 LINE TO UPRIGHT, 1 LINE TO RIG TANK. 9 5/8 COMPACT HEAD.
Event	8	Rig-Up Completed	3/10/2014	18:00:00	USER					
Event	9	Pre-Job Safety Meeting	3/10/2014	18:20:00	USER					DISCUSSED JOB PROCEDURES, HAZARDS AND SAFETY.
Event	10	Start Job	3/10/2014	18:46:21	COM5					TD 1280, TP 1268, SJ 34.5, OG 13 1/2, CASING 9 5/8 32.3# H-40, MUD 9.1 PPG.
Event	11	Prime Pumps	3/10/2014	18:47:00	COM5	8.56	2.00	37.00	2.00	FILL LINES WITH 2 BBL FRESH WATER.
Event	12	Test Lines	3/10/2014	18:48:19	COM5	8.57	0.00	2606.00	2.00	TESTED LINES TO 2606 PSI
Event	13	Pump Spacer 1	3/10/2014	18:53:43	COM5	8.36	4.00	108.00	20.00	FILL LINES WITH 2 BBL FRESH WATER.
Event	14	Pump Lead Cement	3/10/2014	19:01:49	COM5	12.3	7.00	290.0	72.00	170 SKS LEAD CEMENT, 12.3 PPG 2.38 CF3, 13.77 GAL/SK.
Event	15	Pump Tail Cement	3/10/2014	19:13:23	COM5	12.8	7.00	315.00	60.1	160 SKS TAIL CEMENT 12.8 PPG 2.11 CF3, 11.77 GAL/SK
Event	16	Shutdown	3/10/2014	19:22:00	USER					
Event	17	Drop Plug	3/10/2014	19:23:00	USER					PLUG LEFT CONTAINER
Event	18	Pump Displacement	3/10/2014	19:24:00	COM5	8.33	10.00	630	86.9	FRESH WATER DISPLACEMENT

Event	19	Slow Rate	3/10/2014	19:35:16	USER	8.33	2.00	295.00	10.00	SLIOW RATE LAST 10 BBL.'S OF DISPLACEMENT PRIOR TO BUMPING THE PLUG.
Event	20	Bump Plug	3/10/2014	19:38:06	COM5	8.33	0.00	760.00	96.9 TOTAL	
Event	21	Check Floats	3/10/2014	19:40:13	USER					FLOATS HELD 1/2 BBL BACK GOODCIRCULATION THROUGHOUT JOB, 25 BBL GOOD CEMENT TO SURFACE.
Event	22	End Job	3/10/2014	19:41:52	COM5					
Event	23	Pre-Rig Down Safety Meeting	3/10/2014	19:45:00	USER					DISCUSSED RIG DOWN HAZARDS AND SAFETY.
Event	24	Rig-Down Equipment	3/10/2014	19:50:00	USER					
Event	25	Rig-Down Completed	3/10/2014	20:30:00	USER					
Event	26	Pre-Convoy Safety Meeting	3/10/2014	20:45:00	USER					DISCUSSED ROUT HAZARDS AND SAFETY WHILE DRIVING.
Event	27	Crew Leave Location	3/10/2014	21:00:00	USER					THANK YOU FOR USING HALLIBURTON, ED ARNOLD AND CREW.

WPX - SG 14-22 - 9 5/8 SURFACE



WPX - SG 14-22 - 9 5/8 SURFACE



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

- | | | | |
|---|---|---|---|
| ① Call Out <i>n/a;n/a;n/a;n/a</i> | ⑨ Pre-Job Safety Meeting 8.57;0;-5;17.5 | ⑰ Drop Plug 10.55;0.9;10;61.4 | 25 Rig-Down Completed <i>n/a;n/a;n/a;n/a</i> |
| ② Pre-Convoy Safety Meeting <i>n/a;n/a;n/a;n/a</i> | ⑩ Start Job 8.49;0;0;0 | ⑱ Pump Displacement 10.62;0.9;8;62.3 | 26 Pre-Convoy Safety Meeting <i>n/a;n/a;n/a;n/a</i> |
| ③ Crew Leave Yard <i>n/a;n/a;n/a;n/a</i> | ⑪ Prime Pumps 8.56;2;37;0.4 | ⑲ Slow Rate 8.46;2.6;331;88.8 | 27 Crew Leave Location <i>n/a;n/a;n/a;n/a</i> |
| ④ Arrive at Location from Service Center <i>n/a;n/a;n/a;n/a</i> | ⑫ Test Lines 8.57;0;1062;1.8 | 20 Bump Plug 8.43;2;274;94.6 | |
| ⑤ Assessment Of Location Safety Meeting <i>n/a;n/a;n/a;n/a</i> | ⑬ Pump Spacer 1 8.36;1.7;35;0.1 | 21 Check Floats 8.48;0;784;95 | |
| ⑥ Pre-Rig Up Safety Meeting <i>n/a;n/a;n/a;n/a</i> | ⑭ Pump Lead Cement 8.33;4.1;99;0 | 22 End Job 8.46;0;-3;95 | |
| ⑦ Rig-Up Equipment <i>n/a;n/a;n/a;n/a</i> | ⑮ Pump Tail Cement 12.69;7.1;304.59;29.55 | 23 Pre-Rig Down Safety Meeting 8.53;0;-4;95 | |
| ⑧ Rig-Up Completed <i>n/a;n/a;n/a;n/a</i> | ⑯ Shutdown 12.6;0.9;127;60.5 | 24 Rig-Down Equipment 8.43;0;-5;95 | |

▼ **HALLIBURTON** | iCem[®] Service

Created: 2014-03-10 12:53:08, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 3/10/2014 6:19:49 PM

Well: SG 14-22

Representative: WC WILLSON

Sales Order #: 0901180419

ELITE #4 : ED ARNOLD / TRAVIS BROWN

HALLIBURTON

Water Analysis Report

Company: WPX Date: 3/10/2014
Submitted by: ED ARNOLD Date Rec.: 3/10/2014
Attention: _____ S.O.#: 901180419
Lease: SG Job Type: SURFACE
Well #: 14-22

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>	58 Deg
Total Dissolved Solids		0 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.

Sales Order #: 0901180419	Line Item: 10	Survey Conducted Date: 3/10/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: WC WILLSON		API / UWI: (leave blank if unknown) 05-045-22124-00
Well Name: BOSELY		Well Number: SG 14-22
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	3/10/2014
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	WC WILLSON
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 #: 0901180419	Line Item: 10	Survey Conducted Date: 3/10/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: WC WILLSON		API / UWI: (leave blank if unknown) 05-045-22124-00
Well Name: BOSELY		Well Number: 0080220611
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	3/10/2014
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	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	4
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)	1
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	5
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

Sales Order #: 0901180419	Line Item: 10	Survey Conducted Date: 3/10/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: WC WILLSON		API / UWI: (leave blank if unknown) 05-045-22124-00
Well Name: BOSELY		Well Number: 0080220611
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	94
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	99
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