

WPX Energy Rocky Mountain LLC - EBUS

GM 32-12

Nabors 573

Post Job Summary

Cement Surface Casing

Date Prepared: 12/04/2014

Job Date: 11/24/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3560644		Quote #:		Sales Order #: 0901863204	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Beaude Oaks			
Well Name: GM			Well #: 32-12			API/UWI #: 05-045-22470-00	
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: GARFIELD		State: COLORADO	
Legal Description: NE NW-12-7S-96W-1181FNL-1912FWL							
Contractor: NABORS DRLG				Rig/Platform Name/Num: NABORS 573			
Job BOM: 7521							
Well Type: DIRECTIONAL GAS							
Sales Person: HALAMERICA\HB50180				Srvc Supervisor: Bill Jamison			
Job							

CEMENT TO SURFACE 50 BBLs

Formation Name			
Formation Depth (MD)	Top	Bottom	
Form Type	BHST		
Job depth MD	1658.91ft	Job Depth TVD	1670
Water Depth		Wk Ht Above Floor	4
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	1658.91		0
Open Hole Section			13.5				0	1670		0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625	1		1658.91	Top Plug	9.625	1	HES
Float Shoe					Bottom Plug			
Float Collar	9.625	1		1612.61	SSR plug set			
Insert Float					Plug Container	9.625	1	HES
Stage Tool					Centralizers			

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	8.4			6	
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 GJ5	VARICEM (TM) CEMENT	265	sack	12.3	2.45		8	14.17
14.10 Gal		FRESH WATER							

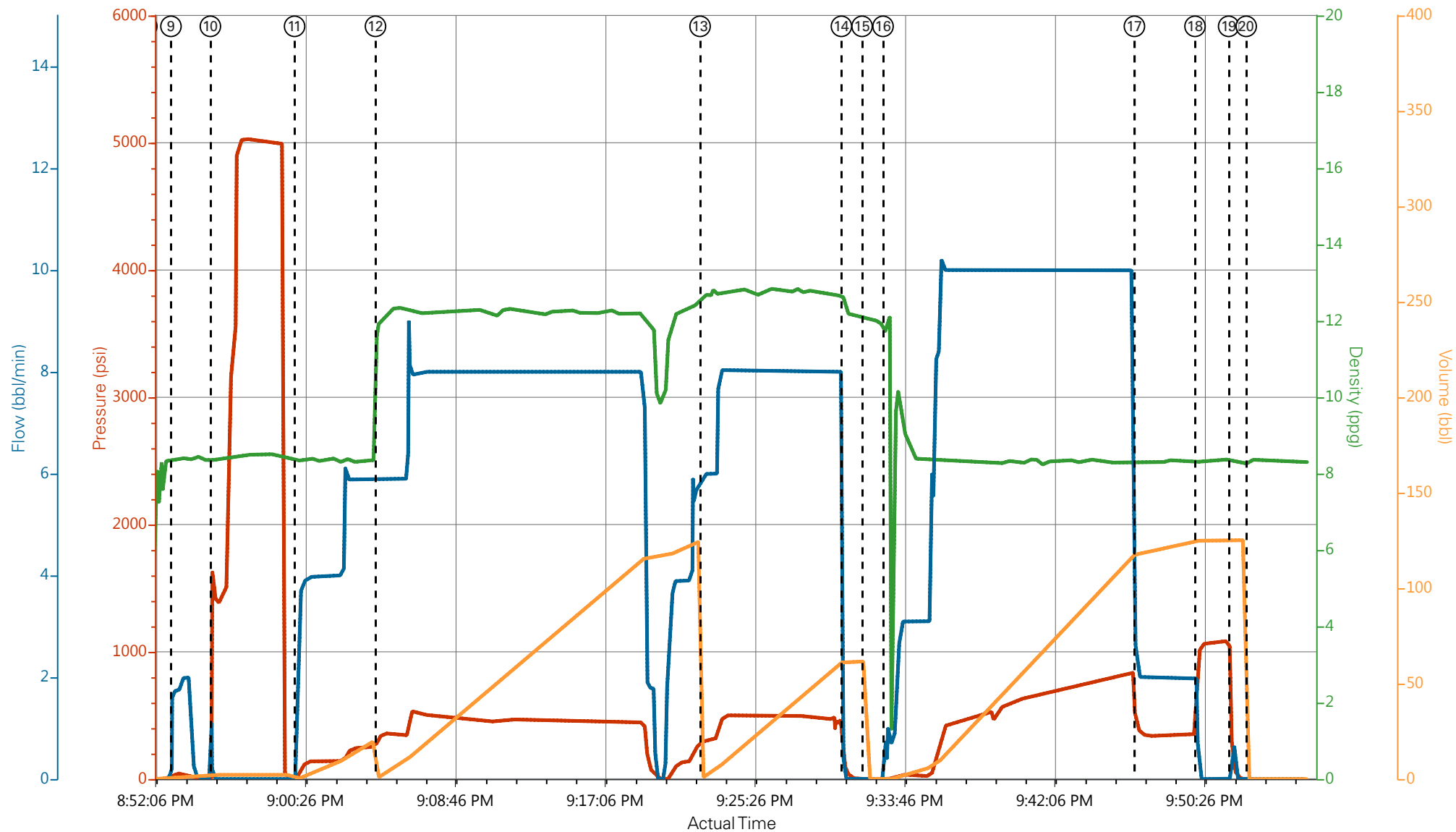
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	160	sack	12.8	2.18		8	12.11
12.05 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	127	bbl	8.4			10	
Cement Left In Pipe		Amount	46.3 ft		Reason			Shoe Joint	
Comment									

4.5 Job Event Log

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	11/24/2014	08:00:00	USER					TD 1660 TP 1658.91 SJ 46.3 CASING 9.625 32.3 # H-40 HOLE SIZE 13.5 MUD 10#
Event	2	Depart Yard Safety Meeting	11/24/2014	11:45:00	USER					
Event	3	Crew Leave Yard	11/24/2014	12:00:00	USER					
Event	4	Arrive At Loc	11/24/2014	14:00:00	USER					
Event	5	Assessment Of Location Safety Meeting	11/24/2014	19:00:00	USER					
Event	6	Pre-Rig Up Safety Meeting	11/24/2014	19:20:00	USER					
Event	7	Pre-Job Safety Meeting	11/24/2014	20:20:20	USER					
Event	8	Start Job	11/24/2014	20:51:46	COM2					
Event	9	Prime Pumps	11/24/2014	20:53:07	COM2	8.4	2	48	2	FRESH WATER
Event	10	Test Lines	11/24/2014	20:55:18	COM2			5000		
Event	11	Pump Spacer 1	11/24/2014	20:59:59	COM2	8.4	6	300	20	FRESH WATER
Event	12	Pump Lead Cement	11/24/2014	21:04:29	COM2	12.3	8	520	115.6	265 SKS YIELD 2.45 WAT/REQ 14.1
Event	13	Pump Tail Cement	11/24/2014	21:22:32	COM2	12.8	8	500	60.1	160 SKS YIELD 2.18 WAT/REQ 12.11
Event	14	Shutdown	11/24/2014	21:30:24	USER					
Event	15	Drop Top Plug	11/24/2014	21:31:33	COM2					
Event	16	Pump Displacement	11/24/2014	21:32:43	COM2	8.4	10	830	117	FRESH WATER
Event	17	Slow Rate	11/24/2014	21:46:41	USER	8.4	2	340	10	
Event	18	Bump Plug	11/24/2014	21:50:03	COM2	8.4	2	340	127	PRESSURED UP TO 1000 PSI
Event	19	Check Floats	11/24/2014	21:51:56	USER					FLOATS HELD
Event	20	End Job	11/24/2014	21:52:54	COM2					CEMENT TO SURFACE 50 BBLs

Type	Seq. No.	Activity	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	21	Post-Job Safety Meeting (Pre Rig-Down)	11/24/2014	22:00:00	USER					GOOD CIRCULATION THROUGHOUT JOB
Event	22	Depart Location Safety Meeting	11/24/2014	22:50:00	USER					CASING WAS NOT MOVED THROUGHOUT JOB
Event	23	Crew Leave Location	11/24/2014	23:00:00	USER					THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

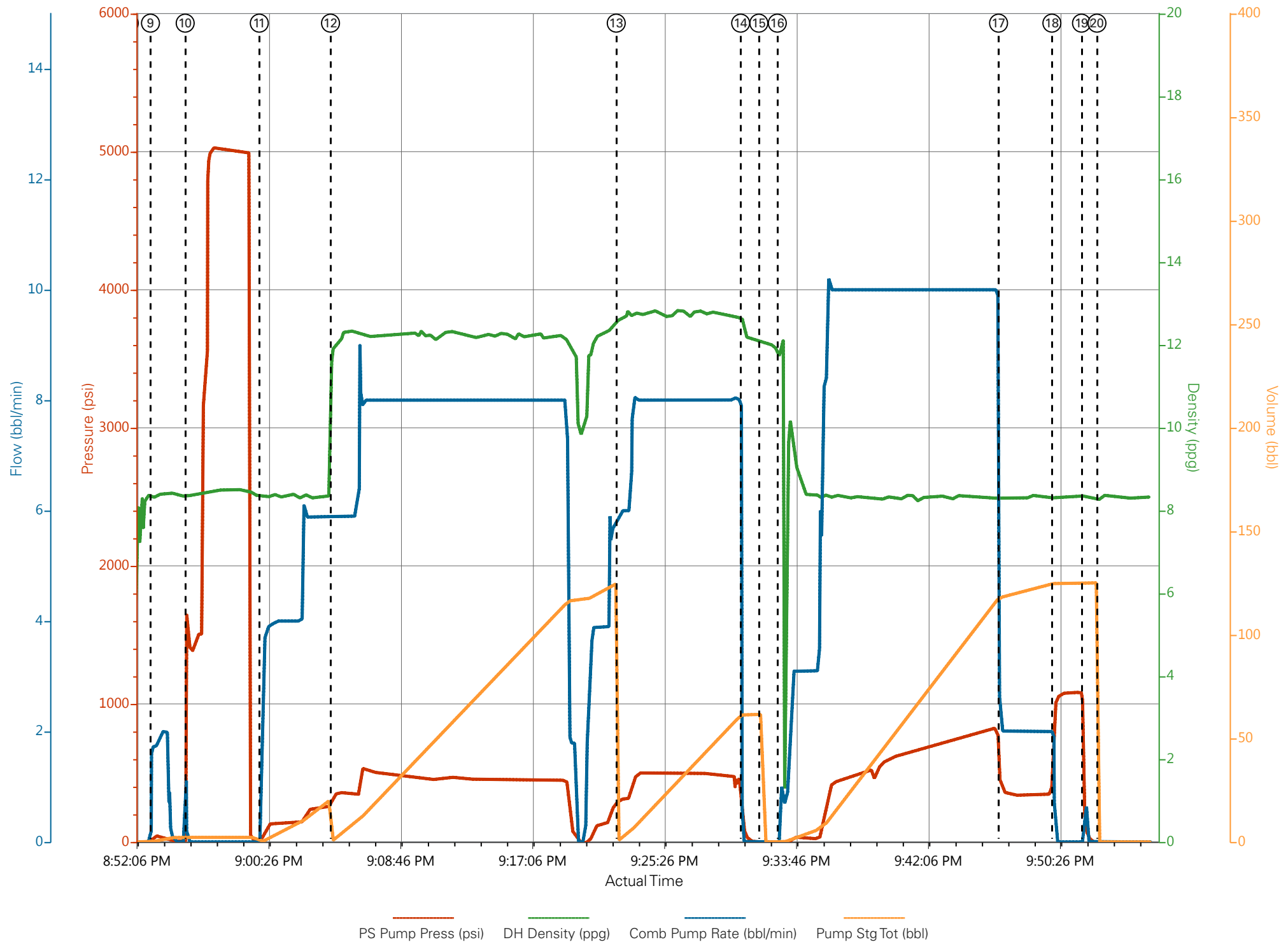
GM 32-12 Surface



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	⑦ Pre-Job Safety Meeting 0;11.57;0.1;4.6	⑬ Pump Tail Cement 297;12.64;5.9;1.1	⑰ Check Floats 215;8.31;0.6;125
② Depart Yard Safety Meeting n/a;n/a;n/a;n/a	⑧ Start Job 0;8.36;0;0	⑭ Shutdown 103;12.18;0;61.6	20 End Job -14;8.27;0;0
③ Crew Leave Yard n/a;n/a;n/a;n/a	⑨ Prime Pumps 36;8.3;1.7;0.3	⑮ Drop Top Plug -6;12;0;61.6	21 Post-Job Safety Meeting (Pre Rig-Down) n/a;n/a;n/a;n/a
④ Arrive At Loc n/a;n/a;n/a;n/a	⑩ Test Lines 1485;8.35;0;2.2	⑯ Pump Displacement -8;11.71;0.4;0	22 Depart Location Safety Meeting n/a;n/a;n/a;n/a
⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a	⑪ Pump Spacer 1 15;8.37;1.9;0.2	⑱ Slow Rate 398;8.33;2;118.2	23 Crew Leave Location n/a;n/a;n/a;n/a
⑥ Pre-Rig Up Safety Meeting n/a;n/a;n/a;n/a	⑫ Pump Lead Cement 322;11.92;5.9;1.1	⑲ Bump Plug 985;8.35;0;124.9	

GM 32-12 Surface



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: BILL JAMISON
Attention: DALLAS SCOTT
Lease: GM
Well #: 32-12

Date: 11/24/2014
Date Rec.: 11/24/2014
S.O.#: 901863204
Job Type: 9.625 SURFACE

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	8
Potassium (K)	<i>5000</i>	400 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>	45 Deg
Total Dissolved Solids		210 Mg / L

Respectfully: BILL JAMISON

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 #: 0901863204	Line Item: 10	Survey Conducted Date: 11/24/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-22470-00
Well Name: GM		Well Number: 0080641208
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	11/24/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HAL9235
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	BEAUDE 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	NONE

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	11/24/2014

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.	Deviated
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
Pumping Hours Total number of hours pumping fluid on this job. Enter in decimal format.	1
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	5
Was this a Primary Cement Job (Yes / No) Primary Cement Job= Casing job, Liner job, or Tie-back job.	Yes
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Customer Non-Productive Rig Time (hrs)	0

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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: 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.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
If a top plug was run, was the plug bumped? (Yes/No/N/A) If a top plug was run, was the plug bumped? (Yes/No/N/A)	Yes
If applicable, was Halliburton float equipment used? (Yes/No/N/A) If applicable, was Halliburton float equipment used? (Yes/No/N/A)	NO
If applicable, did the floats hold? (Yes/No/N/A) If applicable, did the floats hold? (Yes/No/N/A)	Yes
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	98
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	98
If applicable, were there returns throughout the job? (Yes/No/N/A) If applicable, were there returns throughout the job? (Yes/No/N/A)	YES
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