

WPX Energy Rocky Mountain LLC - EBUS

GM 43-12

Nabors 573

Post Job Summary

Cement Surface Casing

Date Prepared: 10/26/2014

Job Date: 10/16/2014

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 3560613		Quote #: 0021934066		Sales Order #: 0901753720	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: BEAUDE OAKS			
Well Name: GM			Well #: 43-12			API/UWI #: 05-045-22464-00	
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: GARFIELD		State: COLORADO	
Legal Description: NE NW-12-7S-96W-1205FNL-1941FWL							
Contractor: NABORS DRLG				Rig/Platform Name/Num: NABORS 573			
Job BOM: 7521							
Well Type: DIRECTIONAL GAS							
Sales Person: HALAMERICA\HB50180				Srvc Supervisor: Dustin Smith			
Job							

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1705ft Job Depth TVD
Water Depth	Wk Ht Above Floor 5 FT
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	1705		0
Open Hole Section			13.5				0	1705		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1705		Top Plug	9.625	1	HES
Float Shoe	9.625	1							
Float Collar	9.625	1		1659					
						Plug Container	9.625	1	HES
						Centralizers	9.625		

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	8.33			4.0	

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		8.0	17.17

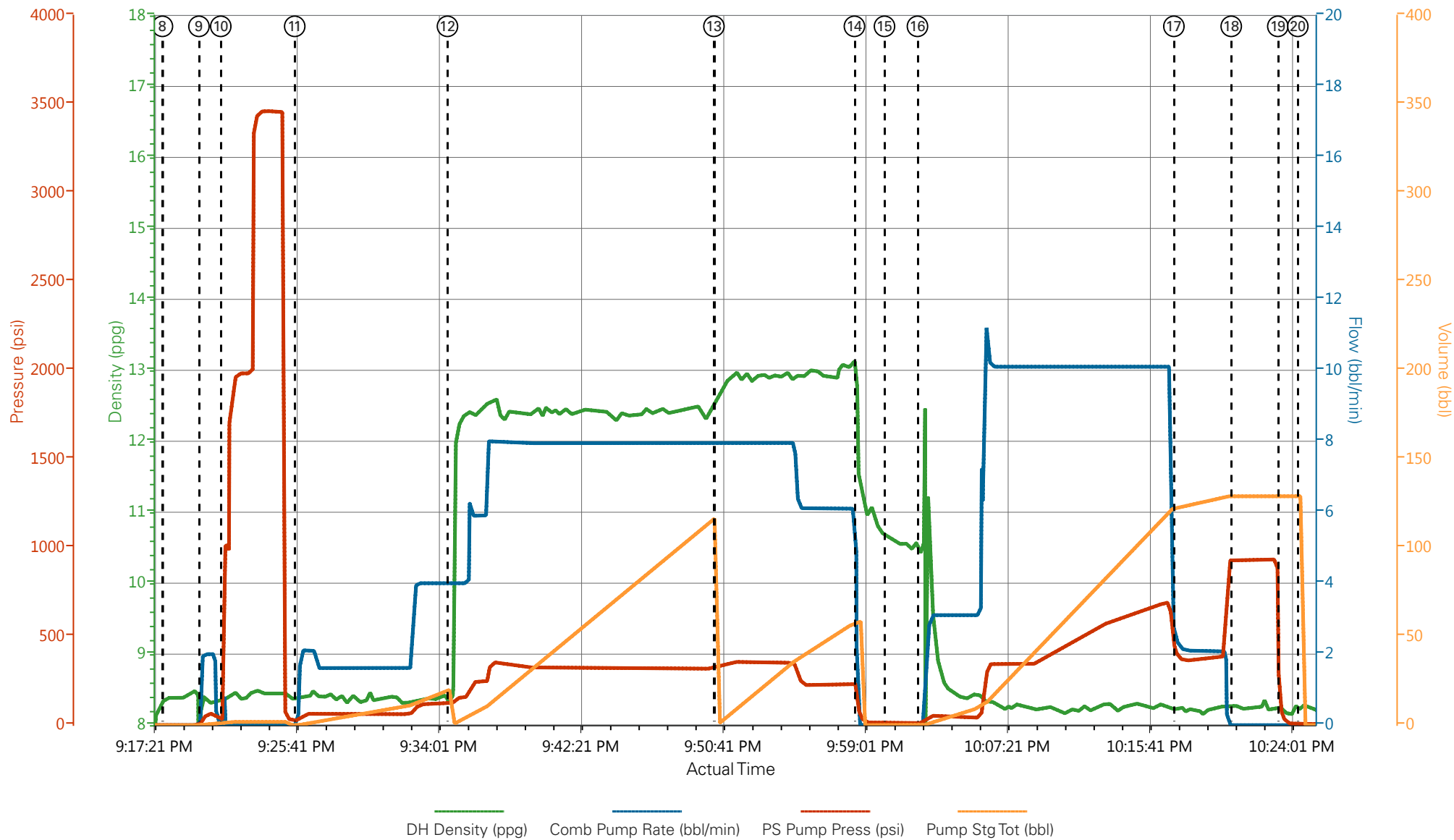
14.10 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	160	sack	12.8	2.18		8.0	12.11
12.05 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	130.6	bbl	8.34			10.0	
Cement Left In Pipe		Amount	46 ft		Reason		Shoe Joint		
Comment									

3.5 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)	Comment
Event	1	Call Out	10/16/2014	12:00:00	USER					ELITE # 6
Event	2	Pre-Convoy Safety Meeting	10/16/2014	14:00:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	10/16/2014	15:30:00	USER					ARRIVED ON LOCATION 1 1/2 HOURS EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME RIG RUNNING CASING
Event	4	Assessment Of Location Safety Meeting	10/16/2014	19:30:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	10/16/2014	19:50:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	10/16/2014	20:00:00	USER					1 HT-400 PUMP TRUCK (ELITE # 6) 2 660 BULK TRUCKS 1 F-550 PICKUP
Event	7	Pre-Job Safety Meeting	10/16/2014	21:00:00	USER					ALL HES EMPLOYEES AND RIG CREW RIG CIRCULATED FOR 1 HOUR PRIOR TO THE JOB
Event	8	Start Job	10/16/2014	21:18:00	COM5					TD: 1705 TP: 1705 SJ: 46 CSG: 9 5/8 32.2# H-40 OH: 13 1/2 MUD WT: 9.8 PPG
Event	9	Prime Pumps	10/16/2014	21:20:08	COM5	8.33	2.0	65	2.0	PRIME LINES WITH 2 BBL FRESH WATER
Event	10	Test Lines	10/16/2014	21:21:25	COM5	8.43	0.0	3461	2.0	PRESSURE TEST OK
Event	11	Pump Spacer 1	10/16/2014	21:25:45	COM5	8.33	4.0	123	20	PUMP 20 BBL FRESH WATER SPACER
Event	12	Pump Lead Cement	10/16/2014	21:34:42	COM5	12.3	8.0	345	115.6	265 SKS 12.3 PPG 2.45 YIELD 14.17 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	13	Pump Tail Cement	10/16/2014	21:50:19	COM5	12.8	8.0	350	62.1	160 SKS 12.8 PPG 2.18 YIELD 12.11 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA PRESSURIZED MUD SCALES
Event	14	Shutdown	10/16/2014	21:58:33	COM5					
Event	15	Drop Top Plug	10/16/2014	22:00:19	COM5					PLUG AWAY NO PROBLEMS WASHED UP ON TOP OF

										PLUG AS PER COMPANY REP
Event	16	Pump Displacement	10/16/2014	22:02:14	COM5	8.33	10.0	695	130.6	FREHS WATER DISPLACEMENT
Event	17	Other	10/16/2014	22:17:16	COM5	8.33	2.0	390	120	SLOW RATE TO BUMP PLUG
Event	18	Bump Plug	10/16/2014	22:20:38	COM5	8.33	2.0	934	130.6	PSI BEFORE BUMPING PLUG @ 290 BUMPED PLUG UP TO 934 PSI
Event	19	Other	10/16/2014	22:23:22	COM5					FLOATS HELD 1/2 BBL BACK TO DISPLACEMENT TANKS
Event	20	End Job	10/16/2014	22:24:32	COM5					GOOD RETURNS THROUGHOUT JOB PIPE STATIC DURING JOB RETURNED 40 BBLS OF CEMENT TO SURFACE
Event	21	Pre-Rig Down Safety Meeting	10/16/2014	22:30:00	USER					ALL HES EMPLOYEES
Event	22	Rig-Down Equipment	10/16/2014	22:40:00	USER					
Event	23	Pre-Convoy Safety Meeting	10/16/2014	23:20:00	USER					ALL HES EMPLOYEES
Event	24	Crew Leave Location	10/16/2014	23:45:00	USER					THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

WPX - GM 43-12 - 9 5/8 SURFACE



- | | | | | | |
|---|-----------------------------|---------------------------|---------------------|----------------|--------------------------------|
| ① Call Out | ⑤ Pre-Rig Up Safety Meeting | ⑨ Prime Lines | ⑬ Pump Tail Cement | ⑰ Slow Rate | 21 Pre-Rig Down Safety Meeting |
| ② Pre-Convoy Safety Meeting | ⑥ Rig-Up Equipment | ⑩ Test Lines | ⑭ Shutdown | ⑱ Bump Plug | 22 Rig-Down Equipment |
| ③ Arrive At Loc | ⑦ Pre-Job Safety Meeting | ⑪ Pump Fresh Water Spacer | ⑮ Drop Top Plug | ⑲ Check Floats | 23 Pre-Convoy Safety Meeting |
| ④ Assessment Of Location Safety Meeting | ⑧ Start Job | ⑫ Pump Lead Cement | ⑯ Pump Displacement | 20 End Job | 24 Crew Leave Location |

▼ **HALLIBURTON** | iCem® Service

Created: 2014-10-16 12:40:30, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 10/16/2014 8:21:45 PM

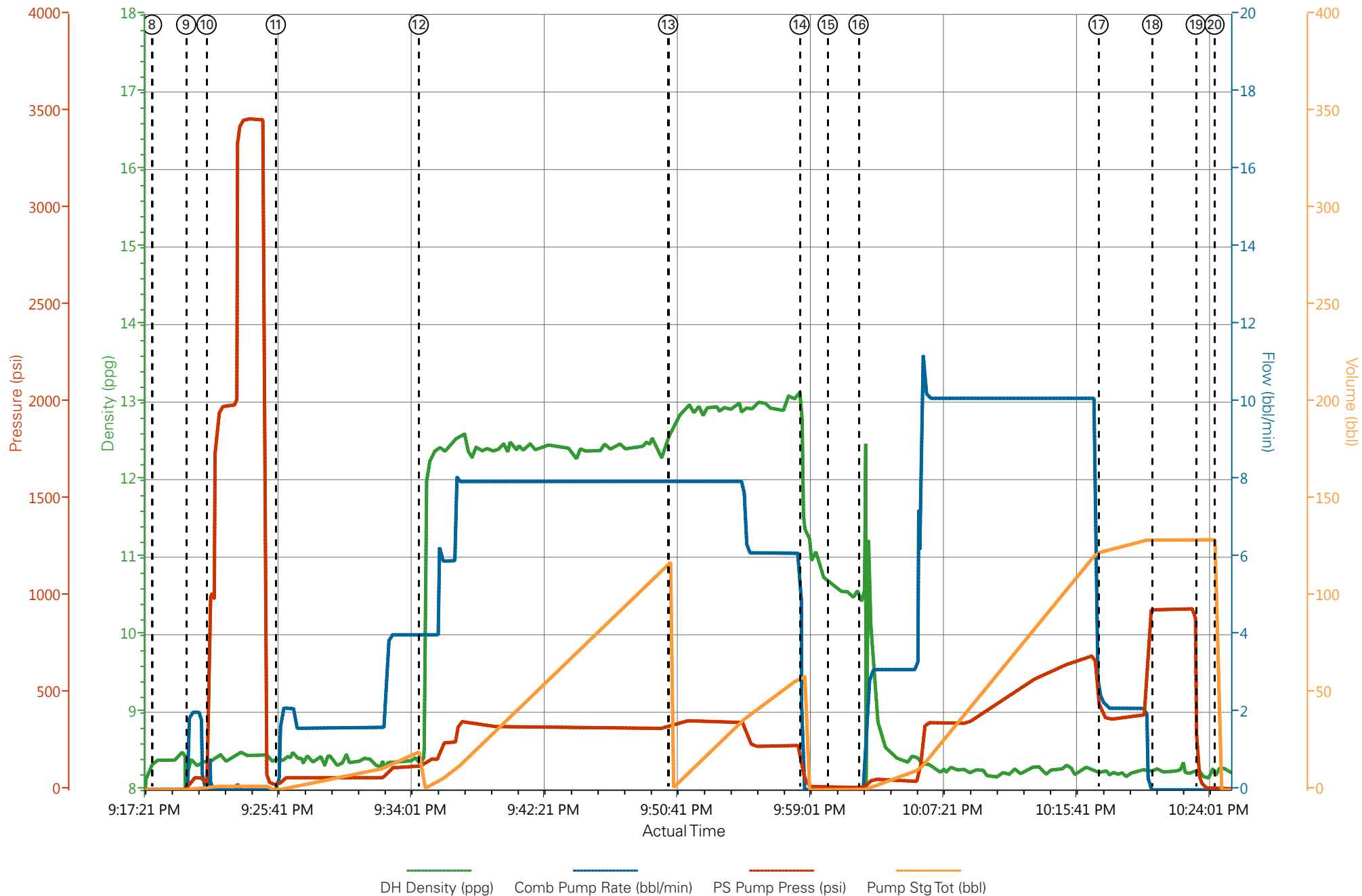
Well: GM 43-12

Representative: BEAUDE OAKS

Sales Order #: 0901753720

ELITE # 6: DUSTIN SMITH / ROB EICKHOFF

WPX - GM 43-12 - 9 5/8 SURFACE



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

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Job Date: 10/16/2014 8:21:45 PM

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Representative: BEAUDE OAKS

Sales Order #: 0901753720

ELITE # 6: DUSTIN SMITH / ROB EICKHOFF

HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: DUSTIN SMITH

Attention:

Lease GM

Well # 43-12

Date: 10/16/2014

Date Rec.: 10/16/2014

S.O.# 901753720

Job Type: SURFACE

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>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-90</i>	64 Deg
Total Dissolved Solids		580 Mg / L

Respectfully: DUSTIN SMITH

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

Sales Order #: 0901753720	Line Item: 10	Survey Conducted Date: 10/17/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: BEAUDE OAKS		API / UWI: (leave blank if unknown) 05-045-22464-00
Well Name: GM		Well Number: 0080641173
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	10/17/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
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	

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	10/17/2014

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.	High Angle
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	6
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 Name: GM		Well Number: 0080641173
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, 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	90
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
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