

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

AP 322-20-695

Nabors 573

Post Job Summary

Cement Surface Casing

Date Prepared: 7/11/2014
Job Date: 7/3/2014

Submitted by: Tony Eschete - Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3123288	Quote #:	Sales Order #: 0901376044
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: BEAUDE OAKS	
Well Name: AP	Well #: 322-20-695	API/UWI #: 05-045-21386-00	
Field: PARACHUTE	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: NE NW-20-6S-95W-81FNL-2509FWL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS 573	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srcv Supervisor: Dustin Smith	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	2627ft Job Depth TVD 2627
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
Open Hole Section			13.5				0	2627		0
Casing		9.625	9.001	32.3	8 RD	H-40	0	2627	0	0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make	
Guide Shoe	9.625	1		2627	Top Plug	9.625	1	HES	
Float Shoe	9.625	1							
Float Collar	9.625	1		2578					
					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	Lead Cement	VARICEM (TM) CEMENT	425	sack	12.3	2.38		8.0	13.77	

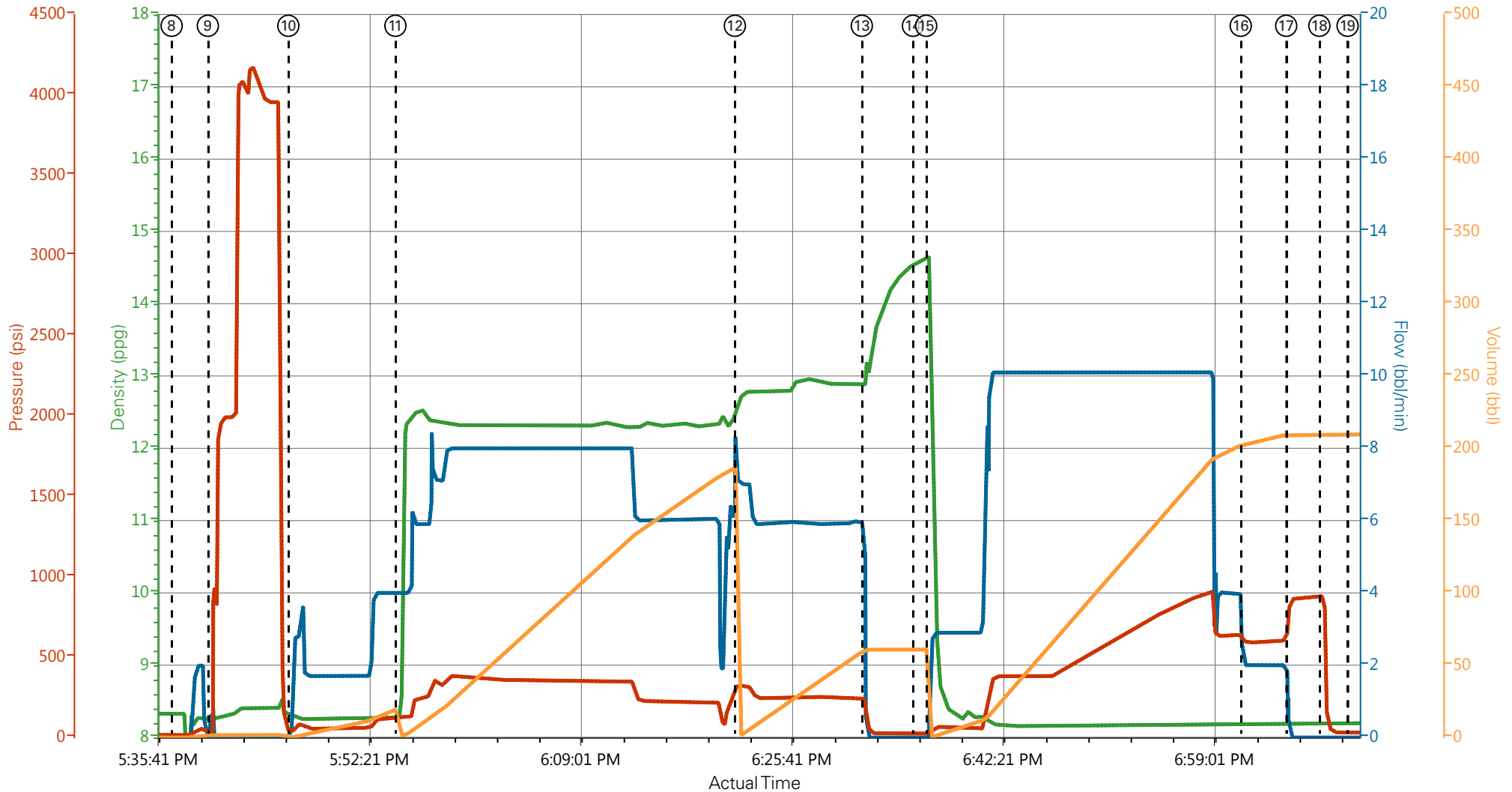
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	Tail Cement	VARICEM (TM) CEMENT	165	sack	12.8	2.11		6.0	11.77	
11.77 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
4	Displacement	Displacement	202.9	bbl	8.33			10.0		
Cement Left In Pipe		Amount	48.91 ft		Reason			Shoe Joint		
Comment										

3.5 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stage Total (bbl)	Comment
Event	1	Call Out	7/3/2014	07:00:00	USER					ELITE # 8
Event	2	Pre-Convoy Safety Meeting	7/3/2014	10:30:00	USER					ALL HES EMPLOYEES
Event	3	Arrive At Loc	7/3/2014	12:00:00	USER					ARRIVED ON LOCATION 1 HOUR EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME RIG PREPARING TO RUN CASING
Event	4	Assessment Of Location Safety Meeting	7/3/2014	15:45:00	USER					ALL HES EMPLOYEES
Event	5	Pre-Rig Up Safety Meeting	7/3/2014	16:00:00	USER					ALL HES EMPLOYEES
Event	6	Rig-Up Equipment	7/3/2014	16:20:00	USER					
Event	7	Pre-Job Safety Meeting	7/3/2014	17:00:00	USER					ALL HES EMPLOYEES AND RIG CREW
Event	8	Start Job	7/3/2014	17:37:00	COM5					TD: 2627 TP: 2626.91 SJ: 48.91 9 5/8 32.3# J-55 CSG OH: 13 1/2 18" CONDUCTOR @ 108' MUD WT : 10.6 PPG
Event	9	Test Lines	7/3/2014	17:39:51	COM5	8.33	0.00	4182	2.0	PRESSURE TEST OK
Event	10	Pump Fresh Water Spacer	7/3/2014	17:46:12	COM5	8.33	4.0	127	20	PUMP 20 BBL FRESH WATER SPACER
Event	11	Pump Lead Cement	7/3/2014	17:54:39	COM5	12.3	8.0	360	180.1	425 SKS 12.3 PPG 2.38 YIELD 13.77 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Event	12	Pump Tail Cement	7/3/2014	18:21:26	COM5	12.8	6.0	250	62	165 SKS 12.8 PPG 2.11 YIELD 11.77 GAL/SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Event	13	Shutdown	7/3/2014	18:31:27	COM5					
Event	14	Drop Top Plug	7/3/2014	18:35:29	COM5					PLUG AWAY NO PROBLEMS WASHED UP ON TOP OF PLUG AS PER COMPANY REP
Event	15	Pump Displacement	7/3/2014	18:36:31	COM5	8.33	10.0	900	202.9	FRESH WATER DISPLACEMENT
Event	16	Slow Rate	7/3/2014	19:01:20	COM5	8.33	2.00	600	188	SLOW RATE TO LAND PLUG
Event	17	Bump Plug	7/3/2014	19:04:56	COM5	8.33	2.0	1169	202.9	PSI BEFORE BUMPING PLUG @ 600 PSI BUMPED PLUG UP TO 1169 PSI
Event	18	Check Floats	7/3/2014	19:07:33	COM5					FLOATS HELD 3/4 BBL BACK TO DISPLACMENT TANKS

Event	19	End Job	7/3/2014	19:09:46	COM5						GOOD RETURNS THROUGHOUT JOB PIPE STATIC THROUGHOUT JOB RETURNED 37 BBLS OF CEMENT TO SURFACE
Event	20	Comment	7/3/2014	19:10:00	USER	8.19	0.00	29.00	209.7		RIG CIRCULATED FOR 2 HOURS PRIOR TO THE JOB
Event	21	Pre-Rig Down Safety Meeting	7/3/2014	19:15:00	USER						ALL HES EMPLOYEES
Event	22	Rig-Down Equipment	7/3/2014	19:30:00	USER						
Event	23	Pre-Convoy Safety Meeting	7/3/2014	20:20:00	USER						ALL HES EMPLOYEES
Event	24	Crew Leave Location	7/3/2014	20:30:00	USER						THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

WPX - AP 322-20-695 - 9 5/8 SURFACE



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

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

▼ **HALLIBURTON** | iCem[®] Service

Created: 2014-07-03 08:18:29, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 7/3/2014 4:53:40 PM

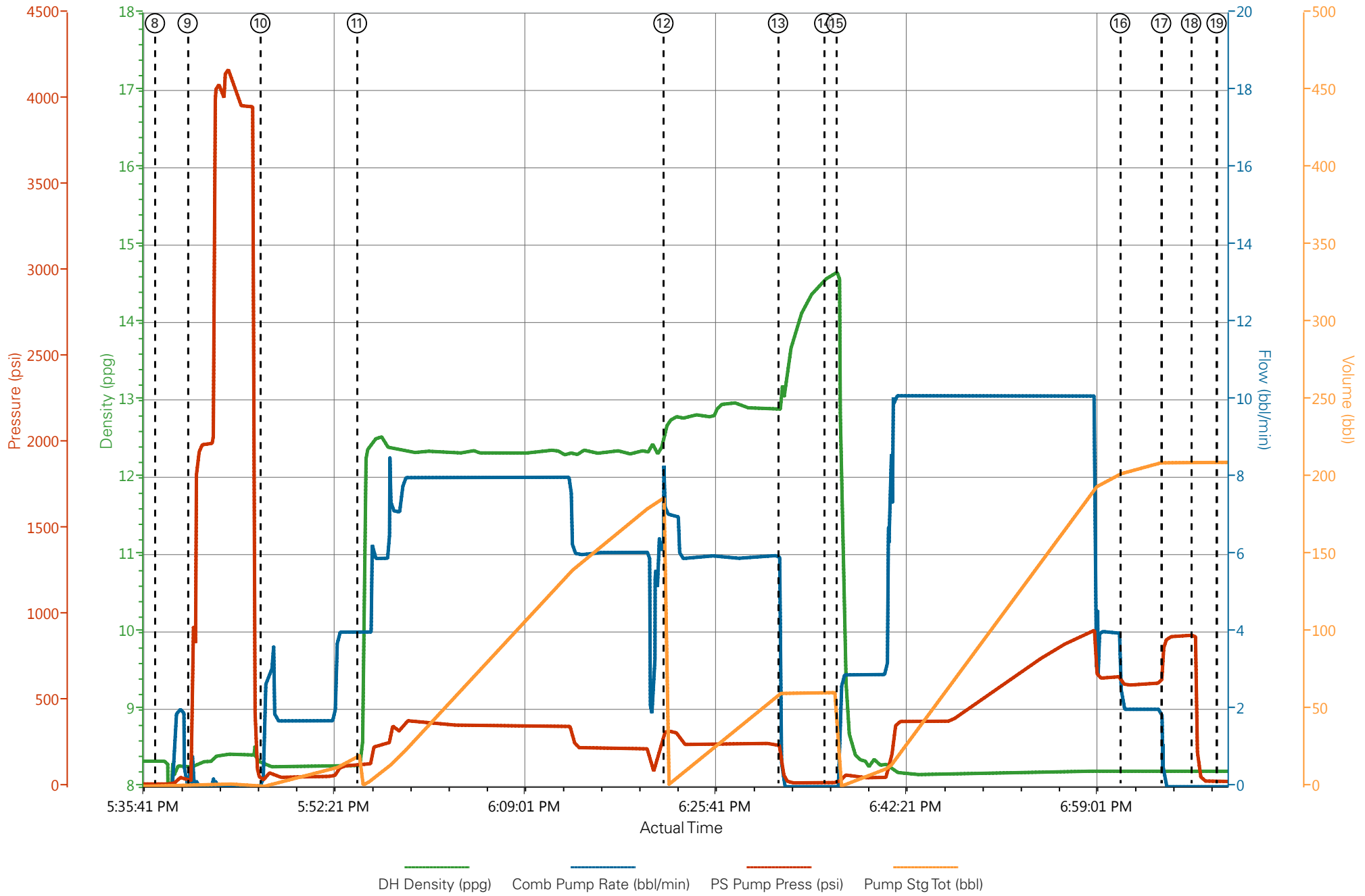
Well: AP 322-20-695

Representative: BEAUDE OAKS

Sales Order #: 0901276044

ELITE # 8: DUSTIN SMITH / ROB EICKHOFF

WPX - AP 322-20-695 - 9 5/8 SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX

Date: 7/3/2014

Submitted by: DUSTIN SMITH

Date Rec.: 7/3/2014

Attention: _____

S.O.# 901376044

Lease AP

Job Type: SURFACE

Well # 322-20-695

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>	70 Deg
Total Dissolved Solids		430 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 its

Sales Order #: 0901376044	Line Item: 10	Survey Conducted Date: 7/3/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-21386-00
Well Name: AP		Well Number: 0080125216
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	7/3/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX37079
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

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KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	7/3/2014
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	Vertical
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?	
Pumping Hours	1.5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
Number Of Jsas Performed	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
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	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)	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