

WPX Energy Rocky Mountain LLC - EBUS

GM 422-28

H&P 318

Post Job Summary

Cement Surface Casing

Date Prepared: 2/25/2015
Job Date: 2/12/2015

Submitted by: Patrick Ealey – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3205588	Quote #:	Sales Order #: 0902126762
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: GM		Well #: 422-28	API/UWI #: 05-045-22186-00
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: GARFIELD	State: COLORADO
Legal Description: 28-6S-96W-1300FNL-1054FWL			
Contractor: H & P DRLG		Rig/Platform Name/Num: H & P 318	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Andrew Brennecke	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1170ft Job Depth TVD
Water Depth	Wk Ht Above Floor 3
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	1170		0
Casing		9.625	8.921	32.3			0	1170		0

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1170		Top Plug	9.625	1	HES
Float Shoe						Bottom Plug			
Float Collar	9.625	1		1126.3		SSR plug set			
Insert Float						Plug Container	9.625	1	HES
Stage Tool						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	8.34			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	VariCem GJ5	VARICEM (TM) CEMENT	130	sack	12.3	2.45		8	14.17	

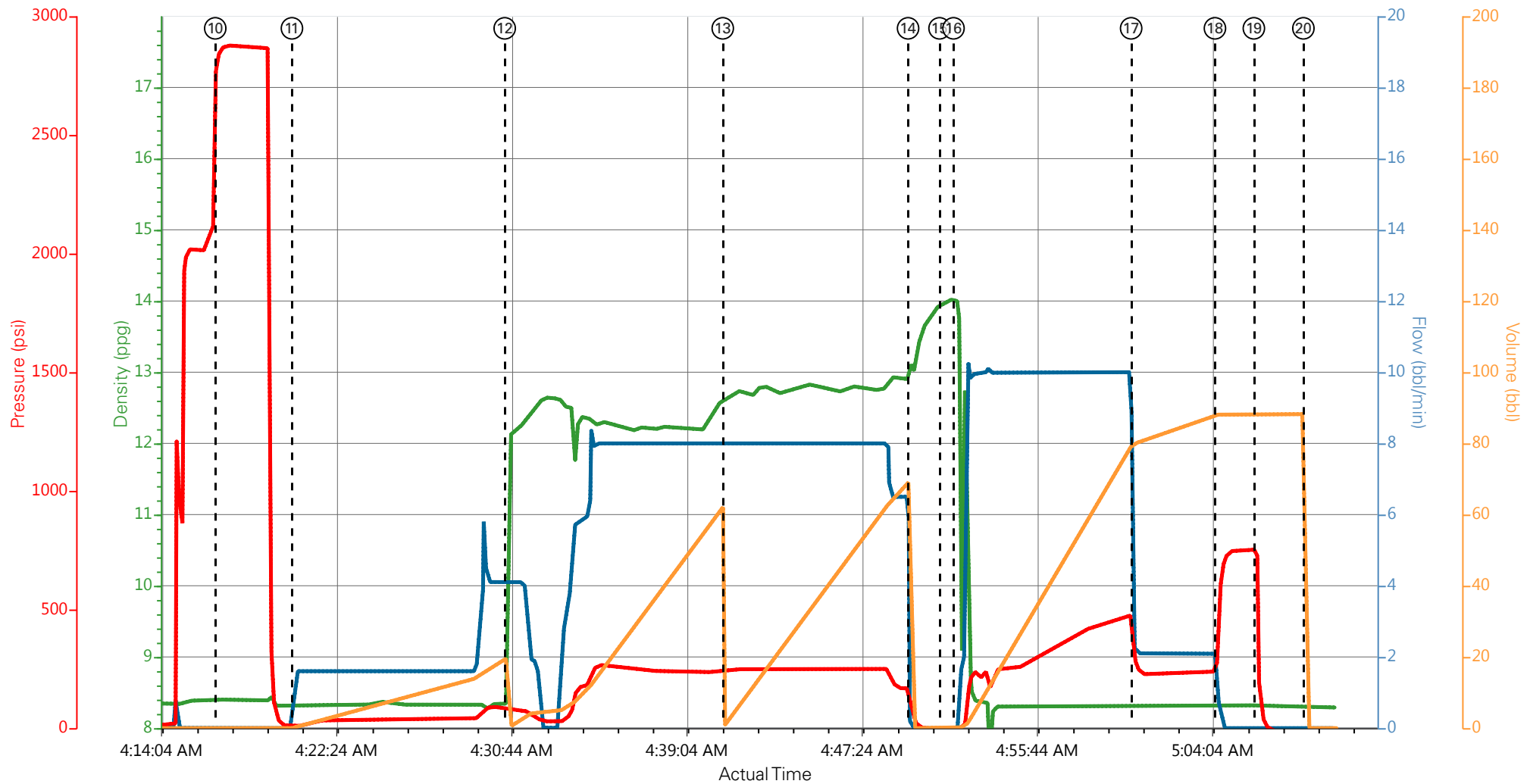
		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VariCem GJ5	VARICEM (TM) CEMENT	170	sack	12.8	2.18		8	12.11
		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	88.6	bbl	8.34			10	
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment									

4.1 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	2/11/2015	18:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	2/11/2015	19:45:00	USER					ALL HES PRESENT
Event	3	Crew Leave Yard	2/11/2015	20:00:00	USER					
Event	4	Arrive At Loc	2/11/2015	21:00:00	USER					RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	2/12/2015	02:35:53	USER					
Event	6	Rig-Up Completed	2/12/2015	03:18:00	USER					1-ELITE, 1-660 BULK TRAILER, 9.625" QUICK LATCH PLUG CONTAINER, 2" PUMP IRON, 4" SUCTION HOSE
Event	7	Pre-Job Safety Meeting	2/12/2015	03:39:00	USER					ALL HES AND RIG CREW PRESENT
Event	8	Start Job	2/12/2015	04:09:45	COM5	8.33	0.00	4.00	0.0	TD-1170.4', TP-1170.4', CSG-9.625", 32.3#, SJ-44.08', OH-13.5", MUD-9.6PPG
Event	9	Prime Pumps	2/12/2015	04:11:58	COM5	8.34	2.00	31.00	2.0	FRESH WATER
Event	10	Test Lines	2/12/2015	04:16:46	COM5	8.40	0.00	2842.00	0.1	ALL PRESSURE HELD ON LINES
Event	11	Pump Spacer 1	2/12/2015	04:20:25	COM5	8.32	4.00	85.00	20.0	FRESH WATER
Event	12	Pump Lead Cement	2/12/2015	04:30:32	COM5	12.30	8.00	267.00	56.7	130SKS, 12.3PPG, 2.45CF/SK, 14.17GAL/SK
Event	13	Pump Tail Cement	2/12/2015	04:40:54	COM5	12.80	8.00	250.00	63.9	170SKS, 12.8PPG, 2.11CF/SK, 12.11GAL/SK
Event	14	Shutdown	2/12/2015	04:49:43	USER					WASHED PUMPS AND LINES ON TOP OF PLUG

Event	15	Drop Plug	2/12/2015	04:51:13	USER					PLUG DROP VERIFIED BY TATTLE TALE
Event	16	Pump Displacement	2/12/2015	04:51:53	COM5	8.40	10.00	475.00	75.0	FRESH WATER
Event	17	Slow Rate	2/12/2015	05:00:20	USER	8.35	2.00	244.00	75.2	SLOW RATE LAST 10 BBLS
Event	18	Bump Plug	2/12/2015	05:04:19	COM5	8.31	0.70	244.00	88.6	PLUG BUMPED
Event	19	Check Floats	2/12/2015	05:06:10	USER	8.32	0.00	754.00	88.6	FLOATS HELD, .5 BBLS BACK TO DISPLACEMENT TANK
Event	20	End Job	2/12/2015	05:08:32	COM5	8.29	0.00	0.00	0.0	GOOD RETURNS THROUGH OUT JOB, 26 BBLS CEMENT TO SURFACE

WPX - GM 422-28 - 9.625" SURFACE



- | | | | |
|---|------------------------------------|------------------------------------|--------------------------------|
| ① Call Out n/a;n/a;n/a;n/a | ⑥ Rig-Up Completed 0;0.1;3;1.3 | ⑪ Pump Spacer 1 8.32;1.6;7;0.1 | ⑯ Pump Displacement 14;0;-4;0 |
| ② Pre-Convoy Safety Meeting n/a;n/a;n/a;n/a | ⑦ Pre-Job Safety Meeting 0;0.1;4;3 | ⑫ Pump Lead Cement 10.39;4.1;78;20 | ⑰ Slow Rate 8.29;2.2;290;80 |
| ③ Crew Leave Yard n/a;n/a;n/a;n/a | ⑧ Start Job 8.32;0;4;0 | ⑬ Pump Tail Cement 12.65;8;244;1.5 | ⑱ Bump Plug 8.31;0.7;436;88.1 |
| ④ Arrive At Loc n/a;n/a;n/a;n/a | ⑨ Prime Pumps 3.81;0.8;3;0.1 | ⑭ Shutdown 13.07;0;68;0 | ⑲ Check Floats 8.32;0;590;88.2 |
| ⑤ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a | ⑩ Test Lines 8.4;0;2842;0.1 | ⑮ Drop Plug 13.95;0;-3;0 | ⑳ End Job 8.29;0;-13;0 |

▼ **HALLIBURTON** | iCem® Service

Created: 2015-02-12 02:33:42, Version: 4.0.248

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 2/12/2015 3:14:32 AM

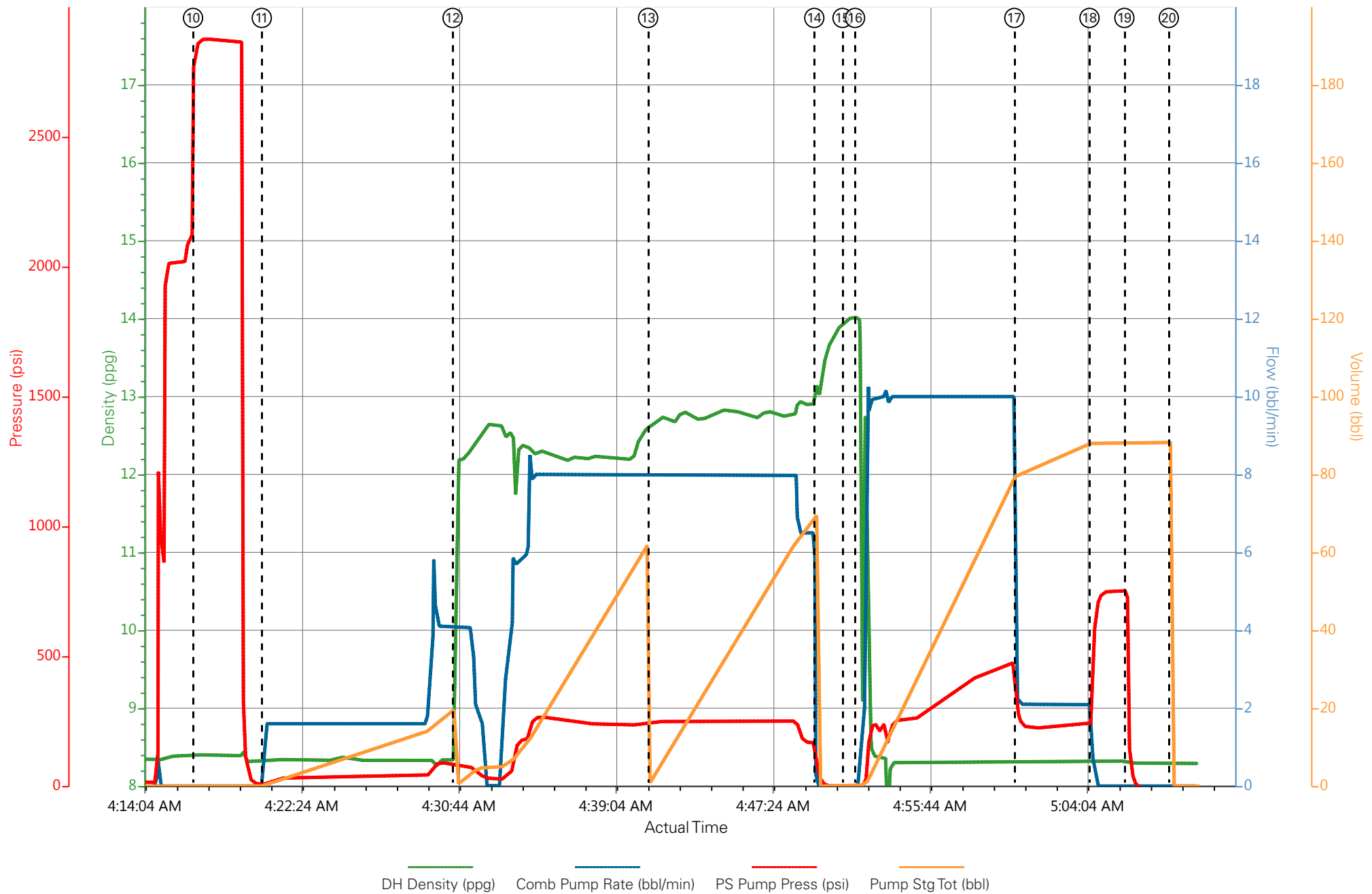
Well: GM 422-28

Representative: W.C. WILSON

Sales Order #: 902126762

ELITE#7: A.BRENNECKE/A.ANDERSON

WPX - GM 422-28 - 9.625" SURFACE



HALLIBURTON

Water Analysis Report

Company: WPX
Submitted by: A.BRENNECKE
Attention: E.RUSSEL
Lease: GM
Well #: 422-28

Date: 2/12/2015
Date Rec.: 2/12/2015
S.O.#: 902126762
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>	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	46 Deg
Total Dissolved Solids		500 Mg / L

Respectfully: A.BRENNECKE

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 #: 0902126762	Line Item: 10	Survey Conducted Date: 2/12/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22186-00
Well Name: GM		Well Number: 0080241808
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	2/12/2015
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB58348
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

Sales Order #: 0902126762	Line Item: 10	Survey Conducted Date: 2/12/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22186-00
Well Name: GM		Well Number: 0080241808
Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	2/12/2015
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)	2
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
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	5
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

Sales Order #: 0902126762	Line Item: 10	Survey Conducted Date: 2/12/2015
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-22186-00
Well Name: GM		Well Number: 0080241808
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.	
Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment? Was the non productive time or the unplanned shutdown caused by a problem with a piece of equipment?	No
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	96
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	8
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