

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

GM 22-13

H&P 318

Post Job Summary

Cement Surface Casing

Date Prepared: 05/22/2014
Job Date: 05/13/2014

Submitted by: Kory Hugentobler – Grand Junction Cement Engineer

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3273427	Quote #:	Sales Order #: 0901345262
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: C&C ENERGY		Well #: GM 22-13	API/UWI #: 05-045-22259-00
Field: GRAND VALLEY	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SW-12-7S-96W-271FSL-1015FWL			
Contractor:		Rig/Platform Name/Num: H&P 318	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB50180		Srvc Supervisor: Carlton Kukus	
Job			

Formation Name	
Formation Depth (MD)	Top
Form Type	BHST
Job depth MD	1678ft
Water Depth	Wk Ht Above Floor 5ft
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	1678		1678
Casing	0	9.625	9.001	32.3	8 RD		0	1678	0	1678

Tools and Accessories									
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1678		Top Plug	9.625	1	HES
Float Shoe	9.625					Bottom Plug	9.625		HES
Float Collar	9.625	1				SSR plug set	9.625		HES
Insert Float	9.625					Plug Container	9.625	1	HES
Stage Tool	9.625					Centralizers	9.625		HES

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 Spacer	Fresh Water Spacer	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	240	sack	12.3	2.38		8	13.77	

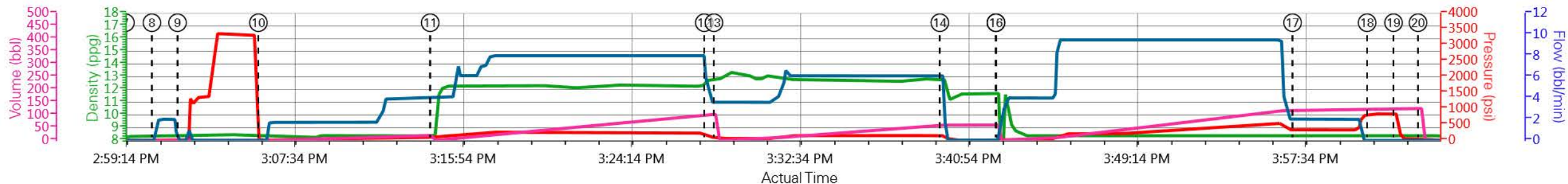
13.70 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Tail Cement	VARICEM (TM) CEMENT	160	sack	12.8	2.11		6	11.77
11.71 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Fresh Water Displacement	Fresh Water Displacement	128.6	bbl	8.34			8	
Cement Left In Pipe		Amount	44 ft		Reason		Shoe Joint		
Comment TOP OF TAIL 1025.6 FEET, 25 BBLS OF CEMENT TO SURFACE									

1.1 Job Event Log

Type	Seq No.	Graph Label/Activity	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comb Pump Rate (bbl/min)	Comment
Event	1	Call Out 04:30	5/13/2014	00:00:00	USER					HES CREW CALLED OUT AT 04:30
Event	2	Pre-Convoy Safety Meeting 07:00	5/13/2014	11:13:38	USER					1-F-550 PICKUP, 1-ELITE PUMP TRUCK, 2-660 BULK TRUCKS
Event	3	Arrive At Location 09:30	5/13/2014	11:14:12	USER					HES ARRIVED 1 HOUR EARLY, RIG WAS GETTING READY TO START RUNNING CASING
Event	4	Assessment Of Location Safety Meeting 10:00	5/13/2014	11:15:08	USER					HES WAITED TO SPOT EQUIPMENT DUE TO SMALL LOCATION
Event	5	Pre-Rig Up Safety Meeting 13:00	5/13/2014	11:15:31	USER					HES SPOTTED EQUIPMENT, RIGGED UP IRON TO THE FLOOR, BULK EQUIPMENT AND TWO WATER HOSES TO THE UPRIGHT
Event	6	Pre-Job Safety Meeting 14:45	5/13/2014	11:16:58	USER					ALL HES AND RIG CREW IN ATTENDANCE TO DISCUSS JOB PROCEDURES
Event	7	Start Job 15:00	5/13/2014	14:59:20	COM5	8.31	-3.00	0.0	0.00	TD: 1677.6FT TP: 1677.6FT SJ: 43.75FT OH: 13 1/2" CSG: 9.625" 32.3# MUD WT: 9.8PPG
Event	8	Fill Lines 15:00	5/13/2014	15:00:38	COM5	8.34	45	2	2	FILL LINES TO PRESSURE TEST
Event	9	Test Lines 15:01	5/13/2014	15:01:54	COM5	8.35	3356	2	0.00	PRESSURE TEST LINES TO 3000 PSI, PRESSURE TEST OK
Event	10	Fresh Water Spacer 15:05	5/13/2014	15:05:54	COM5	8.33	100	20	4	20 BBL FRESH WATER SPACER
Event	11	Pump Lead Cement 15:14	5/13/2014	15:14:24	COM5	12.3	240	101	8	240 SKS OF VARICEM CEMENT 12.3 PPG 2.38 YIELD 13.77 GAL/SK WEIGHT OF CEMENT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Event	12	Slow Rate	5/13/2014	15:27:58	USER	12.71	240	2	8	HES SLOWED RATE DUE TO CEMENT HEAD STICKING, OPERATOR FINISHED MIXING ON HAND
Event	13	Pump Tail Cement 15:28	5/13/2014	15:28:26	COM5	12.8	150	61	6	160 SKS OF VARICEM CEMENT 12.8 PPG 2.11 YIELD 11.77 GAL/SK WEIGHT OF CEMENT VERIFIED VIA MUD SCALES THROUGHOUT TAIL CEMENT
Event	14	Shutdown 15:39	5/13/2014	15:39:37	USER	12.78	151.00	60.1	6.10	SHUTDOWN END OF CEMENT, HES WASHED UP ON TOP OF PLUG

Event	15	Drop Top Plug 15:41	5/13/2014	15:42:23	USER	11.70	1.00	0.0	0.00	PLUG AWAY NO PROBLEMS
Event	16	Pump Displacement 15:42	5/13/2014	15:42:23	COM5	11.70	400	118	9.5	FRESH WATER DISPLACEMENT
Event	17	Slow Rate 15:56	5/13/2014	15:57:04	USER	8.32	400	118.8	2	HES SLOWED RATE TO BUMP PLUG
Event	18	Bump Plug 15:59	5/13/2014	16:00:45	COM5	8.32	346	128	0.00	BUMPED PLUG AT 346 PSI TOOK TO 846 PSI, 25 BBLS OF CEMENT TO SURFACE, RIG USED 60 POUNDS OF SUGAR
Event	19	Check Floats 16:02	5/13/2014	16:02:03	USER	8.34	835.00	125.3	0.00	FLOATS HELD .5 BBLS BACK TO TANKS
Event	20	End Job 16:03	5/13/2014	16:03:16	COM5	8.30	0.00	125.3	0.00	THANK YOU FOR CHOOSING HALLIBURTON CEMENT CARL KUKUS AND CREW
Event	21	Pre-Rig Down Safety Meeting 16:05	5/13/2014	16:12:27	USER					ALL HES EMPLOYEES
Event	22	Rig Down Lines 16:10	5/13/2014	16:12:38	USER					RIG DOWN ALL LINES AND PUT AWAY
Event	23	Pre-Convoy Safety Meeting 16:30	5/13/2014	16:12:55	USER					1-F-550 PICKUP, 1-ELITE PUMP TRUCK, 2-660 BULK TRUCKS
Event	24	Crew Leave Location 16:45	5/13/2014	16:13:22	USER					ALL EQUIPMENT

WPX/C&C ENERGY/GM 22-13/901345262



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

① Call Out 04:30 n/a;n/a;n/a;n/a	⑧ Fill Lines 15:00 8.34;-3;0;0	⑮ Drop Top Plug 15:41 11.7;1;0;0	22 Rig Down Lines 16:10 n/a;n/a;n/a;n/a
② Pre-Convoy Safety Meeting 07:00 n/a;n/a;n/a;n/a	⑨ Test Lines 15:01 8.36;24;1.9;0	⑯ Pump Displacement 15:42 11.7;1;0;0	23 Pre-Convoy Safety Meeting 16:30 n/a;n/a;n/a;n/a
③ Arrive At Location 09:30 n/a;n/a;n/a;n/a	⑩ Fresh Water Spacer 15:05 8.33;15;0;0	⑰ Slow Rate 15:56 8.32;318;118.8;2	24 Crew Leave Location 16:45 n/a;n/a;n/a;n/a
④ Assessment Of Location Safety Meeting 10:00 n/a;n/a;n/a;n/a	⑪ Pump Lead Cement 15:14 8.35;101;0.1;4	⑱ Bump Plug 15:59 8.32;829;125.3;0	
⑤ Pre-Rig Up Safety Meeting 13:00 n/a;n/a;n/a;n/a	⑫ Slow Rate 12.71;185;101.3;5.6	⑲ Check Floats 16:02 8.34;835;125.3;0	
⑥ Pre-Job Safety Meeting 14:45 n/a;n/a;n/a;n/a	⑬ Pump Tail Cement 15:28 12.87;72;0.1;3.6	20 End Job 16:03 8.3;0;125.3;0	
⑦ Start Job 15:00 8.31;-3;0;0	⑭ Shutdown 15:39 12.78;151;60.1;6.1	21 Pre-Rig Down Safety Meeting 16:05 n/a;n/a;n/a;n/a	

▼ **HALLIBURTON** | iCem® Service

Created: 2014-05-13 09:59:59, Version: 3.0.121

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 5/13/2014 1:55:58 PM

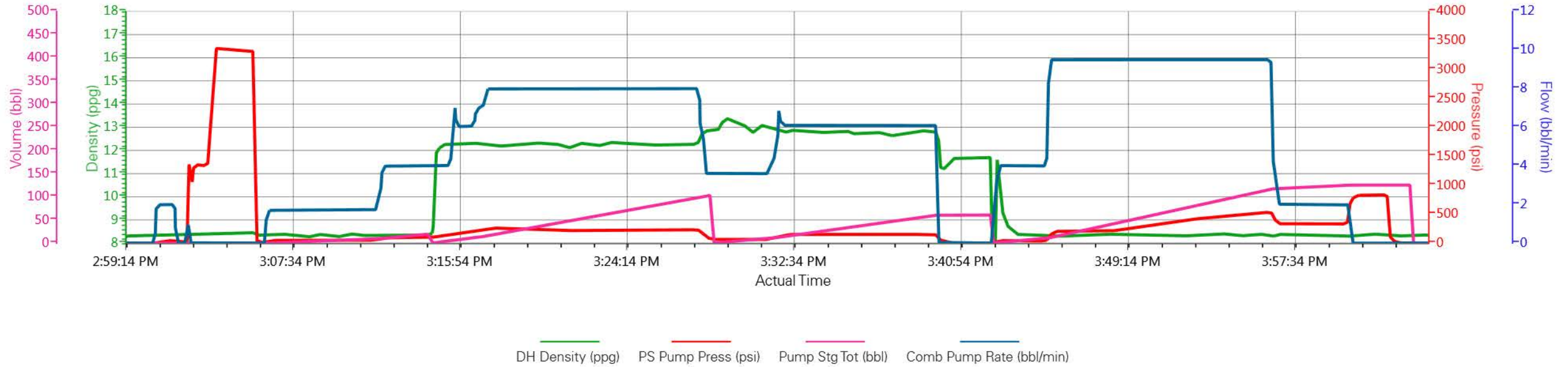
Well: C&C ENERGY GM 22-13

Representative: W.C. WILSON

Sales Order #: 901345262

Supervisor/Operato: Carlton Kukus/Travis Brown

WPX/C&C ENERGY/GM 22-13/901345262



HALLIBURTON

Water Analysis Report

Company: WPX

Submitted by: Carl Kukus

Attention: J.Trout

Lease C&C ENERGY

Well # GM 22-13

Date: 5/13/2014

Date Rec.: 5/13/2014

S.O.# 901345262

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>	3 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>	67 Deg
Total Dissolved Solids		250 Mg / L

Respectfully: Carl Kukus

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 #: 0901345262	Line Item: 10	Survey Conducted Date: 5/13/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: W.C. WILSON		API / UWI: (leave blank if unknown) 05-045-22259-00
Well Name: C&C ENERGY		Well Number: 0080358200
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	5/13/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HB44726
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	W.C. WILSON
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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H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	5/13/2014

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

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Customer Representative: W.C. WILSON		API / UWI: (leave blank if unknown) 05-045-22259-00
Well Name: C&C ENERGY		Well Number: 0080358200
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	90
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	8
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