

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

GM 421-13

H&P 318

Post Job Summary

Cement Surface Casing

Date Prepared: 04/20/2014

Submitted by: Grand Junction Cement Engineering

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 3273413	Quote #:	Sales Order #: 0901276046
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep:	
Well Name: C&C ENERGY	Well #: GM 421-13	API/UWI #: 05-045-22260-00	
Field: GRAND VALLEY	City (SAP): PAR	County/Parish: GARFIELD	State: COLORADO
Legal Description: SW SW-12-7S-96W-273FSL-1039FWL			
Contractor:		Rig/Platform Name/Num:	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA/HX46524		Srcv Supervisor: Thomas Ponder	
Job			

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1701ft Job Depth TVD
Water Depth	Wk Ht Above Floor
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	1701	0	0
Casing		9.625	9.001	32.3	8 RD	H-40	0	1701		0

Fluid Data

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Varicem	VARICEM (TM) CEMENT	260	sack	12.3	2.38		8	13.77	
13.72 Gal		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Varicem	VARICEM (TM) CEMENT	160	sack	12.8	2.11		8	11.77	
11.44 Gal		FRESH WATER								

Cement Left In Pipe	Amount	Reason	Shoe Joint
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Comment

Summary Report



Sales Order #: 0901276046
WO #: 0901276046
PO/AFE #: NA

Crew: _____

Job Start Date: 4/16/2014

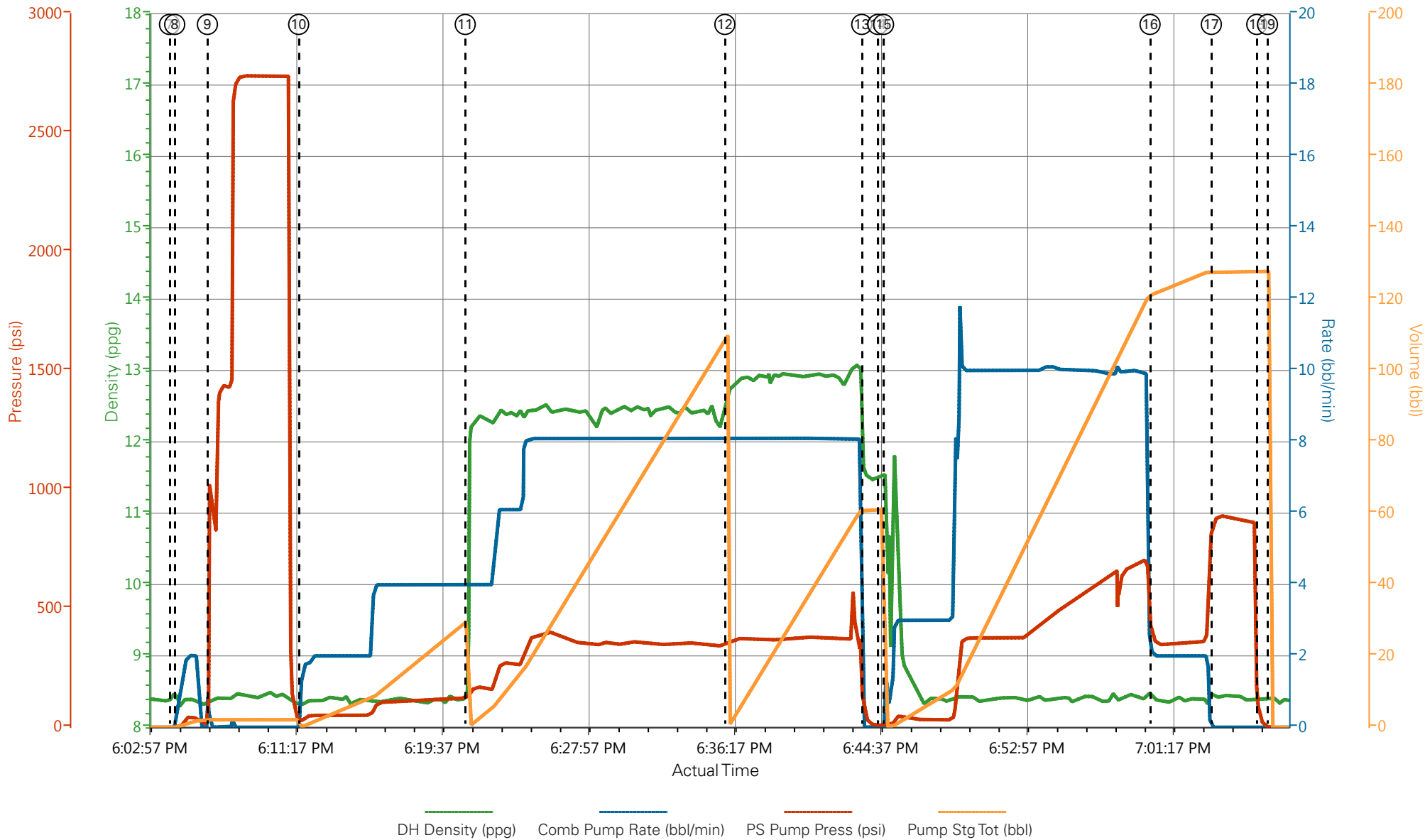
Customer:	WPX ENERGY ROCKY MOUNTAIN LLC-EBUS	Field:	GRAND VALLEY	Job Type:	CMT SURFACE CASING BOM
UWI / API Number:	05-045-22260-00	County/Parish:	GARFIELD	Service Supervisor:	Thomas Ponder
Well Name:	C&C ENERGY	State:	COLORADO		
Well No:	GM 421-13	Latitude:	39.445614	Cust Rep Name:	
		Longitude:	-108.064458	Cust Rep Phone #:	
		Sect / Twn / Rng:	12/7/96		

Remarks:		
<i>The Information Stated Herein Is Correct</i>	Customer Representative Signature <i>Ron H. Towers</i>	Date <i>4/16/2014</i>
	Customer Representative Printed Name <i>Ron H Towers</i>	

1.1 Job Event Log

Type	Seq. No.	Graph Label/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	4/16/2014	04:00:00	USER					ON LOCATION TIME 0900
Event	2	Crew Leave Yard	4/16/2014	07:00:00	USER					ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Event	3	Arrive At Loc	4/16/2014	08:00:00	USER					RIG WAS STILL PULLING DRILL PIPE WHEN THE CREW ARRIVED ON LOCATION
Event	4	Assessment Of Location Safety Meeting	4/16/2014	16:30:00	USER					TD- 1701.4', TP- 1701.4', SJ- 44.0', MUD- 9.6 PPG, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Event	5	Rig-Up Equipment	4/16/2014	17:00:00	USER					1-550 PICKUP, 1-ELITE PUMP, 2-660 CUFT BULK TRUCK
Event	6	Pre-Job Safety Meeting	4/16/2014	17:45:00	USER					ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING @ 1630
Event	7	Start Job	4/16/2014	18:04:13	COM2					
Event	8	Prime Pumps	4/16/2014	18:04:31	COM2	8.29	2	45	2	FILL LINES
Event	9	Test Lines	4/16/2014	18:06:23	COM2	8.39	.1	2739	.1	GOOD PRESSURE TEST, NO LEAKS IN THE LINES
Event	10	Pump Spacer 1	4/16/2014	18:11:35	COM2	8.34	4	128	30	FRESH WATER
Event	11	Pump Lead Cement	4/16/2014	18:21:05	COM2	12.3	8	370	110.2	260 SKS 12.3 PPG 2.38 FT3/SK 13.77 GAL/SK
Event	12	Pump Tail Cement	4/16/2014	18:35:53	COM2	12.8	8	375	60.1	160 SKS 12.8 PPG 2.11 FT3/SK 11.77 GAL/SK
Event	13	Shutdown	4/16/2014	18:43:41	USER					
Event	14	Drop Top Plug	4/16/2014	18:44:36	COM2					PLUG DROP VERIFIED VIA TATTLE TELL BY CO REP
Event	15	Pump Displacement	4/16/2014	18:44:56	COM2	8.35	10	704	120.4	FRESH WATER, WASHED UP ON TOP OF THE PLUG WITH THE FIRST 10 BBL OF DISPLACEMENT OUT OF THE MIXING TUB
Event	16	Slow Rate	4/16/2014	19:00:07	USER	8.33	2.00	346	10	GOOD RETURNS, CIRCULATED 25 BBL OF CEMENT TO SURFACE
Event	17	Bump Plug	4/16/2014	19:03:37	COM2			350	130.4	PLUG BUMPED
Event	18	Check Floats	4/16/2014	19:06:12	USER			889	130.4	FLOATS HELD, 1/2 BBL BACK TO THE DISPLACEMENT TANKS
Event	19	End Job	4/16/2014	19:06:49	COM2					THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

CUSTOMER - WELL NAME AND NUMBER - JOB TYPE



- ① Call Out n/a;n/a;n/a;n/a ③ Arrive At Loc n/a;n/a;n/a;n/a ⑤ Rig-Up Equipment n/a;n/a;n/a;n/a ⑦ Start Job 8.46;0;-1;0 ⑨ Test Lines 8.39;0;977;2.1 ⑪ PU
- ② Crew Leave Yard n/a;n/a;n/a;n/a ④ Assessment Of Location Safety Meeting n/a;n/a;n/a;n/a ⑥ Pre-Job Safety Meeting 8.35;0;0;0 ⑧ Prime Pumps 8.29;0.9;0;0.1 ⑩ Pump Spacer 1 8.34;1.8;27;0.1 ⑫ PU



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Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

Job Date: 4/16/2014 5:26:12 PM

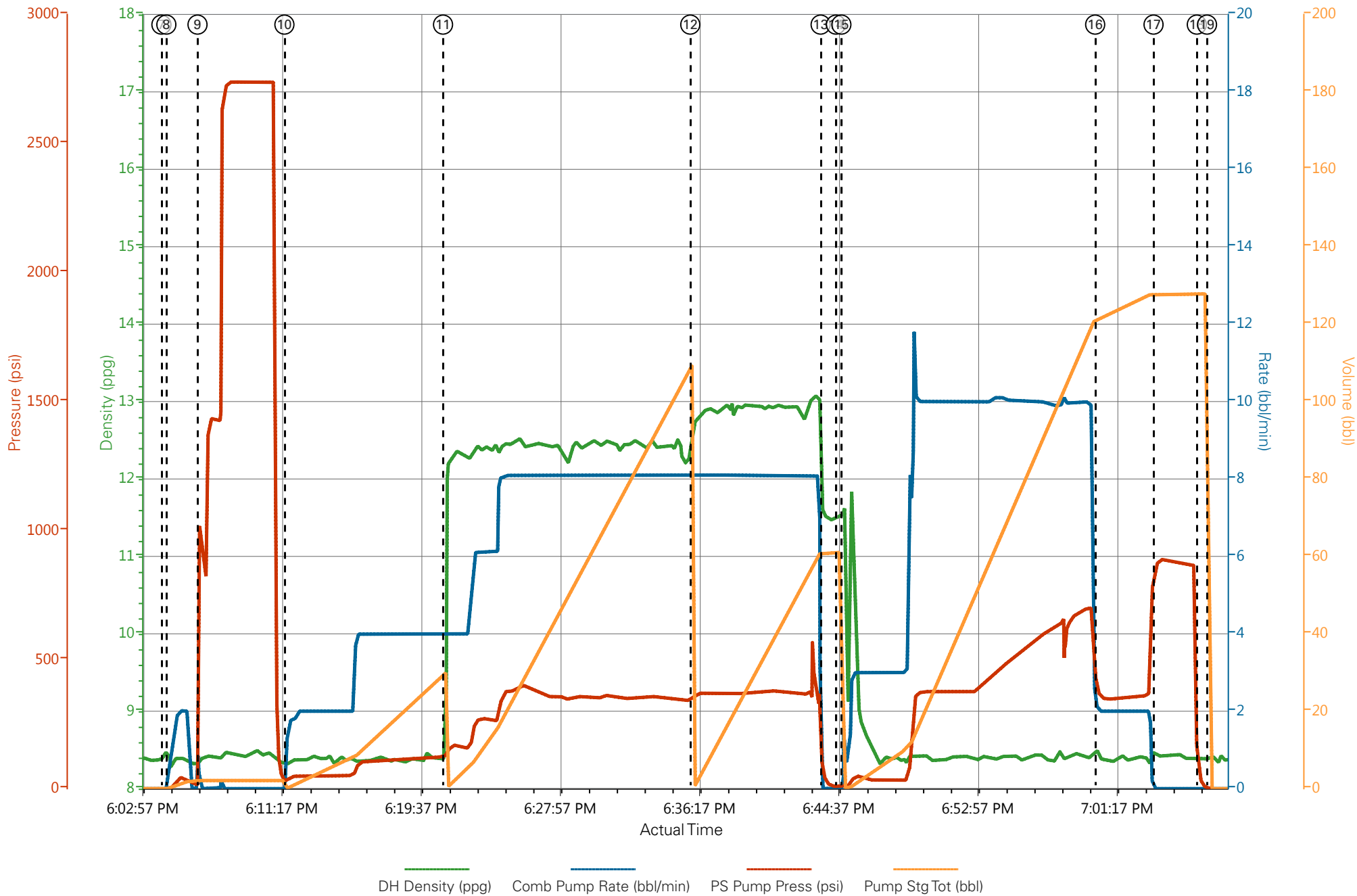
Well: C&C ENERGY GM 421-13

Representative: RON TOWERS

Sales Order #: 901276046

ELITE #3: ANDREW LINN / THOMAS PONDER

CUSTOMER - WELL NAME AND NUMBER - JOB TYPE



HALLIBURTON

Company: WPX Date: 4/16/2014
Submitted by: THOMAS PONDER Date Rec.: 4/16/2014
Attention: LARRY COOKSEY S.O.# 901276046
Lease C&C ENERGY Job Type: SURFCACE
Well # GM 421-13

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7.5</i>
Potassium (K)	<i>5000</i>	<i>400</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>120</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>500</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Carbonates hardness		
Temp	<i>40-80</i>	<i>41.4</i> Deg
Total Dissolved Solids		Mg / L

Respectfully: THOMAS PONDER

Title: CEMENTING SUPERVISOR

Location: GRAND JCT, CO

Sales Order #: 0901276046	Line Item: 10	Survey Conducted Date: 4/16/2014
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: RON TOWERS		API / UWI: (leave blank if unknown) 05-045-22260-00
Well Name: C&C ENERGY		Well Number: 0080358183
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	4/16/2014
Survey Interviewer	The survey interviewer is the person who initiated the survey.	HX41187
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	RON TOWERS
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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Well Type: DIRECTIONAL GAS	Well Country: USA	
H2S Present: No	Well State: COLORADO	Well County: GARFIELD

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	4/16/2014
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	High Angle
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	3
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?	
Operating Hours (Pumping Hours)	2
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
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	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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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	99
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	99
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