HALLIBURTON

WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

PA 542-21
PARACHUTE
Garfield County , Colorado

Cement Surface Casing

02-Jan-2014

Post Job Summary

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300721	**Ship To #:** 3123594	**Quote #:**	**Sales Order #:** 901013213
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		**Customer Rep:** Tower, Ron	
Well Name: PA	**Well #:** 542-21		**API/UWI #:** 05-045-22028
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.51 deg. OR N 39 deg. 30 min. 37.75 secs.		**Long:** W 108.008 deg. OR W -109 deg. 59 min. 31.423 secs.	
Contractor: Nabors	**Rig/Platform Name/Num:** Nabors 573		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: MAYO, MARK	**Srvc Supervisor:** PONDER, THOMAS	**MBU ID Emp #:** 427112	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
IVIE, KAYDEN Kurt	9	553536	LAULAINEN, ROGER Edward	9	524413	PONDER, THOMAS Lynn	9	427112

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10722398	60 mile	10872429	60 mile	10995027	60 mile	11583931	60 mile
11808847	60 mile						

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
01/02/2014	8	2	01/03/2014	1	1			
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	**Top**		**Bottom**
Form Type		**BHST**	
Job depth MD	1122. ft	**Job Depth TVD**	1122. ft
Water Depth		**Wk Ht Above Floor**	5. ft
Perforation Depth (MD)	*From*		**To**

Job Times

	Date	Time	Time Zone
Called Out	02 - Jan - 2014	11:30	MST
On Location	02 - Jan - 2014	16:00	MST
Job Started	02 - Jan - 2014	22:22	MST
Job Completed	02 - Jan - 2014	23:28	MST
Departed Loc	02 - Jan - 2014	01:00	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	9 5/8	1	WTF	1122	**Packer**					**Top Plug**	9 5/8	1	HES
Float Shoe					**Bridge Plug**					**Bottom Plug**			
Float Collar	9 5/8	1	WTF	1078	**Retainer**					**SSR plug set**			
Insert Float										**Plug Container**	9 5/8	1	HES
Stage Tool										**Centralizers**			

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/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom

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Stage/Plug #: 1									
Fluid #	**Stage Type**	**Fluid Name**	**Qty**	**Qty uom**	**Mixing Density lbm/gal**	**Yield ft3/sk**	**Mix Fluid Gal/sk**	**Rate bbl/min**	**Total Mix Fluid Gal/sk**
1	**Fresh Water Spacer**		**20.00**	**bbl**	**8.33**	**.0**	**.0**	**4.0**	
2	**VersaCem GJ1 Lead Cement**	**VARICEM (TM) CEMENT (452009)**	**150.0**	**sacks**	**12.3**	**2.38**	**13.75**	**8.0**	**13.75**
	13.75 Gal	FRESH WATER							
3	**VersaCemGJ1 Tail Cement**	**VARICEM (TM) CEMENT (452009)**	**175.0**	**sacks**	**12.8**	**2.11**	**11.75**	**8.0**	**11.75**
	11.75 Gal	FRESH WATER							
4	**Displacement Fluid**		**85.00**	**bbl**	**8.34**	**.0**	**.0**	**10.0**	

Calculated Values		**Pressures**		**Volumes**					
Displacement	84.8	**Shut In: Instant**		**Lost Returns**		*Cement Slurry*	129.4	**Pad**	
Top Of Cement	SURFACE	**5 Min**		**Cement Returns**	38	**Actual Displacement**	84.8	**Treatment**	
Frac Gradient		**15 Min**		**Spacers**	20	**Load and Breakdown**		**Total Job**	**234.2**

Rates							
Circulating	*RIG*	*Mixing*	6	*Displacement*	10	**Avg. Job**	7

Cement Left In Pipe	**Amount**	***0 ft***	*Reason*	***Shoe Joint***

Frac Ring # 1 @		*ID*		*Frac ring # 2 @*		*ID*		*Frac Ring # 3 @*		*ID*		*Frac Ring # 4 @*		*ID*	

The Information Stated Herein Is Correct	***Customer Representative Signature***

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Cementing Job Log

The Road to Excellence Starts with Safety

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Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.51 deg. OR N 39 deg. 30 min. 37.75 secs.		**Long:** W 108.008 deg. OR W -109 deg. 59 min. 31.423 secs.	
Contractor: Nabors	**Rig/Platform Name/Num:** Nabors 573		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: MAYO, MARK	**Srvc Supervisor:** PONDER, THOMAS		**MBU ID Emp #:** 427112

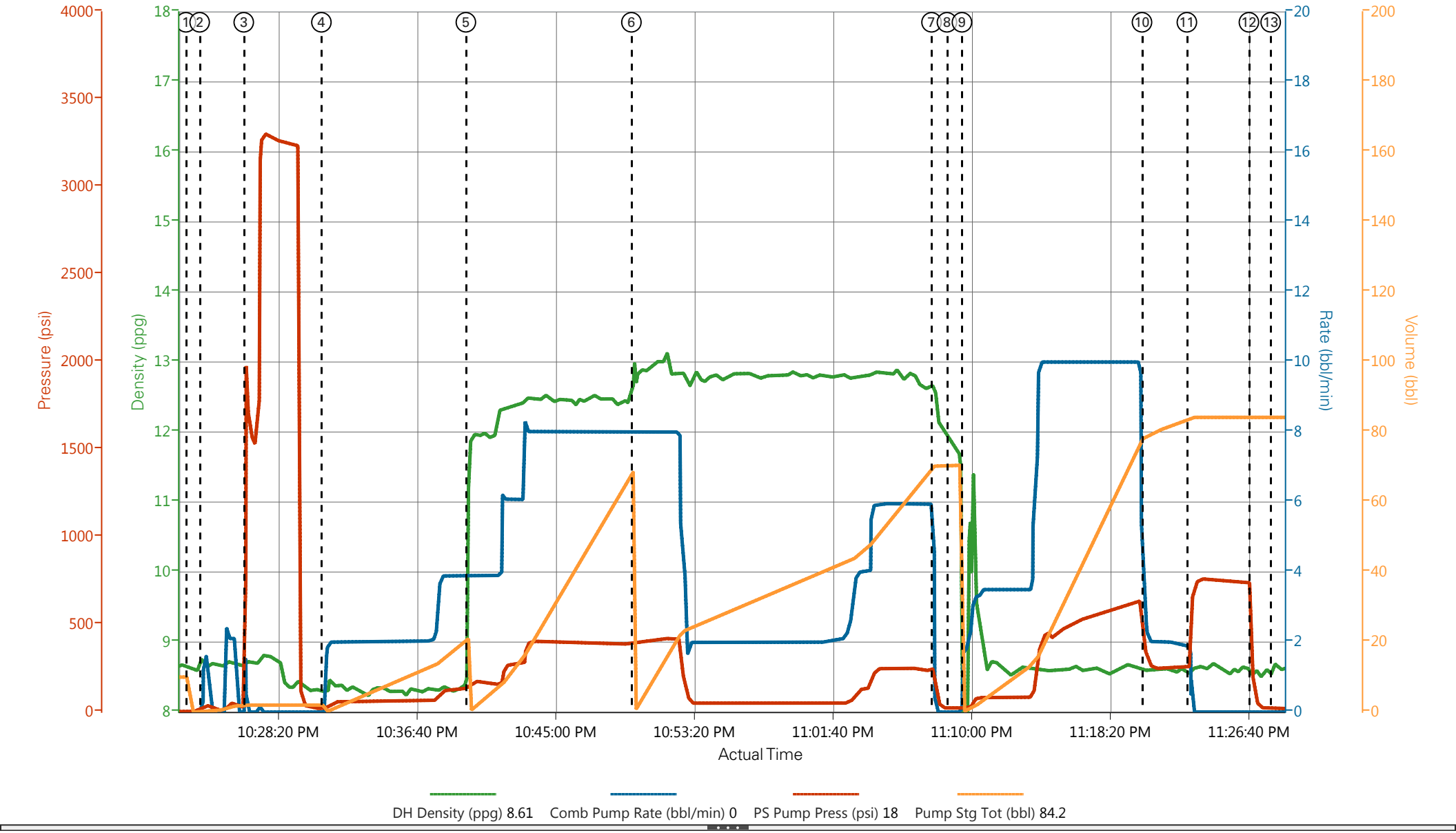
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/02/2014 11:30							
Crew Leave Yard	01/02/2014 14:00							ALL HES PRESENT FOR PRE-CONVOY SAFETY HUDDLE
Arrive At Loc	01/02/2014 16:00							RIG WAS STILL PULLING DRILL PIPE WHEN THE CREW ARRIVED ON LOCATION
Assessment Of Location Safety Meeting	01/02/2014 21:00							TD- 1130', TP- 1122', SJ- 44', MUD- 9.9 PPG, HOLE- 13 1/2", SURFACE CASING- 9 5/8" 32.3# H-40
Rig-Up Equipment	01/02/2014 21:15							1-550 PICKUP, 1-ELITE PUMP, 1-660 CUFT BULK TRUCK
Safety Meeting	01/02/2014 22:00							ALL HES PRESENT, RIG CREW PRESENT, RIG STARTED CIRCULATING ON BOTTOM @ 2100
Start Job	01/02/2014 22:22		2	2			38.0	FILL LINES
Test Lines	01/02/2014 22:26		0.1	0.1			3304.0	GOOD PRESSURE TEST, NO LEAKS IN LINES
Pump Spacer 1	01/02/2014 22:31		4	20			135.0	FRESH WATER
Pump Lead Cement	01/02/2014 22:39		8	63.6			407.0	150 SKS 12.3 PPG 2.38 FT3/SK 13.75 GAL/SK
Activity Description	**Date/Time**	**Cht #**	**Rate bbl/ min**	**Volume bbl**		**Pressure psig**		**Comments**
				Stage	**Total**	**Tubing**	**Casing**	

HALLIBURTON

Cementing Job Log

Pump Tail Cement	01/02/2014 22:49		6	65.8			206.0	175 SKS 12.8 PPG 2.11 FT3/SK 11.75 GAL/SK, COMPRESSOR ON 660 QUIT WOEKING, SLOWED TO 2 BPM TO TRY AND GET EMERGENCY AIR TO WORK, FINALLY GOT EMERGENCY AIR TO WORK AND BROUGHT RATE TO 6 BPM TO FINISH CEMENT
Shutdown	01/02/2014 23:07							
Drop Plug	01/02/2014 23:08							PLUG DROP VERIFIED VIA TATTLE TELL BY CUSTOMER REP
Pump Displacement	01/02/2014 23:09		10	74.8			639.0	FRESH WATER, WASHED UP MIXING TUB ON TOP OF PLUG WITH FIRST 10 BBL OF DISPLACEMENT
Slow Rate	01/02/2014 23:20		2	10	84.8		248.0	GOOD CIRCULATION THROUGH OUT THE JOB, 38 BBL CEMENT CIRCULATED TO SURFACE
Bump Plug	01/02/2014 23:23				84.8		251.0	PLUG BUMPED
Check Floats	01/02/2014 23:26						757.0	FLOATS HELD, 1/2 BBL BACK TO THE DISPLACEMENT TANKS
End Job	01/02/2014 23:28							THANK YOU FOR CHOOSING HALLIBURTON, THOMAS PONDER AND CREW

WPX - PA 542-21 - 9.625 IN SURFACE



① Start Job 8.6;0;2;10
② Fill Lines 8.72;0.3;22;0
③ Test Lines 8.72;0;1841;2
④ Pump Spacer 1 8.31;0;20;0
⑤ Pump Lead Cement 11.41;3.9;146;0.1
⑥ Pump Tail Cement 12.96;8;397;0.2
⑦ Shutdown 12.68;0.4;168;70.5
⑧ Drop Top Plug 11.95;0;20;70.5
⑨ Pump Displacement 0.69;1.8;24;0.3
⑩ Slow Rate 8.58;3.4;361;78.7
⑪ Bump Plug 8.57;1.8;351;84.1
⑫ Check Floats 8.56;0;310;84.2
⑬ End Job 8.7;0;20;84.2

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Created: 2014-01-02 17:47:38, Version: 2.0.606

Edit

Customer : WPX ENERGY ROCKY MOUNTAIN LLC-EBUS

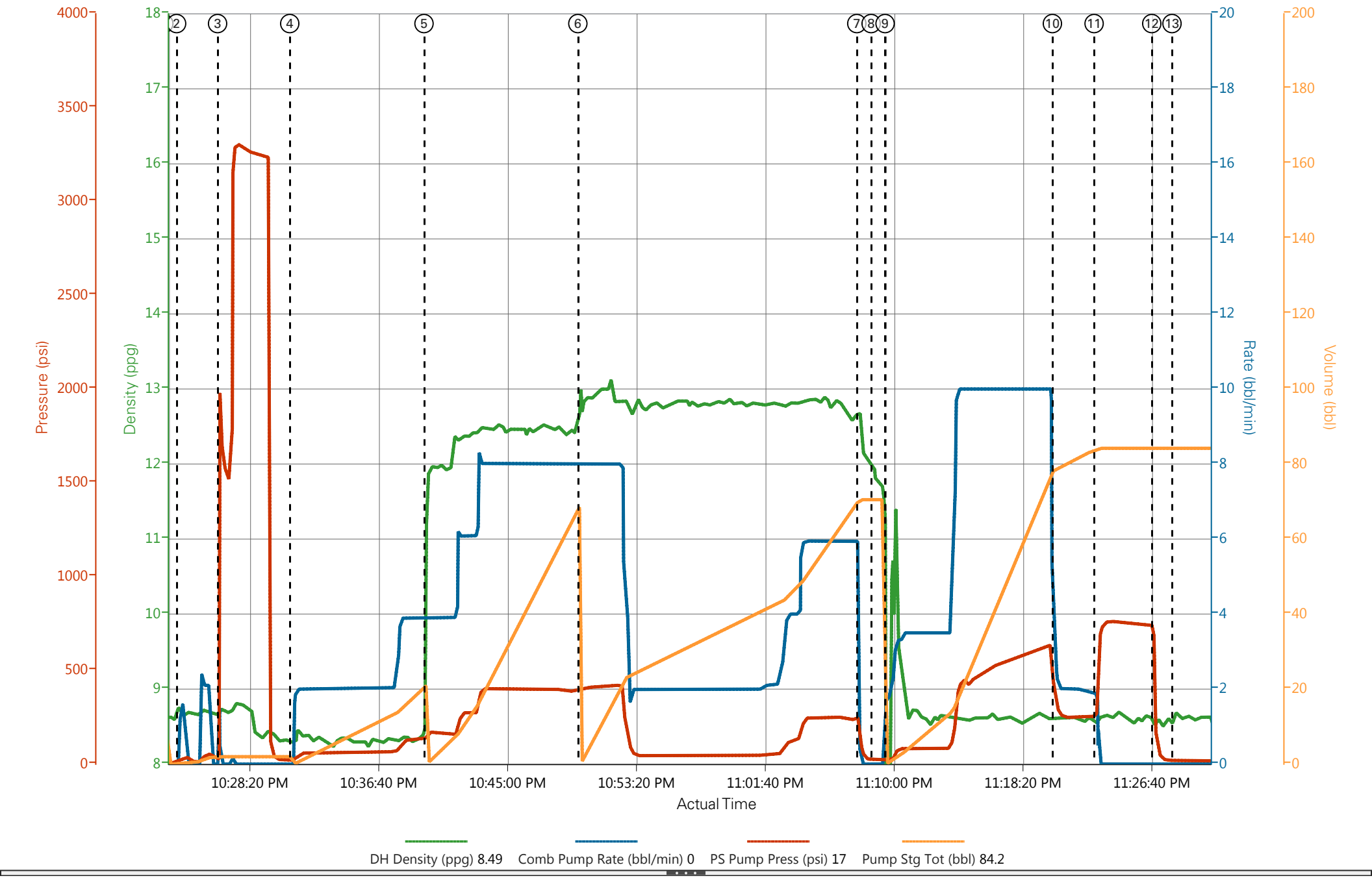
Job Date : 1/2/2014 9:42:05 PM

Well : PA 542-21

Representative : RON TOWERS

Sales Order # : 901013213

ELITE #7 : ROGER LAULAINEN / THOMAS PONDER



HALLIBURTON | iCem® Service

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Job Date : 1/2/2014 9:42:05 PM

Well : PA 542-21

Representative : RON TOWERS

Sales Order # : 901013213

ELITE #7 : ROGER LAULAINEN / THOMAS PONDER

HALLIBURTON

Company:	**WPX**	**Date:**	**1/2/2014**
Submitted by:	**THOMAS PONDER**	**Date Rec.:**	**1/2/2014**
Attention:	**LARRY COOKSEY**	**S.O.#**	**901013213**
Lease	**PA**	**Job Type:**	**SURFACE**
Well #	**542-21**		

Specific Gravity	***MAX***	**1**	
pH	***8***	**6.4**	
Potassium (K)	***5000***	**700**	**Mg / L**
Calcium (Ca)	***500***	**0**	**Mg / L**
Iron (FE2)	***300***	**0**	**Mg / L**
Chlorides (Cl)	***3000***	**500**	**Mg / L**
Sulfates (SO_4)	***1500***	**<200**	**Mg / L**
Carbonates hardness			
Temp	***40-80***	**38.3**	**Deg**
Total Dissolved Solids			**Mg / L**

Respectfully: **THOMAS PONDER**

Title: **CEMENTING SUPERVISOR**

Location: **GRAND JCT, CO**

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901013213	10	1/3/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
RON TOWERS		05-045-22028
Well Name:		**Well Number:**
PA		542-21
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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**	**1/3/2014**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**THOMAS PONDER (HX41187)**
Customer Participation	**Did the customer partipcipate 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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901013213	10	1/3/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
RON TOWERS		05-045-22028
Well Name:		**Well Number:**
PA		542-21
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	1/3/2014

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

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
901013213	10	1/3/2014
Customer:		**Job Type (BOM):**
WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		CMT SURFACE CASING BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
RON TOWERS		05-045-22028
Well Name:		**Well Number:**
PA		542-21
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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 cment mixed at designed density divided by total BBLs of cement multiplied by 100	98
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	85
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