

**HALLIBURTON**

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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**SG 31-22**

**GRAND VALLEY**  
Garfield County , Colorado

**Cement Surface Casing**

22-Aug-2013

**Post Job Report**

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 3096060	Quote #:	Sales Order #: 900681530
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Duniho, Al	
Well Name: SG	Well #: 31-22	API/UWI #:	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Contractor: CYCLONE 17	Rig/Platform Name/Num: 17		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	0.0	439784	BLUST, CHARLES Thomas	0.0	386662	SALAZAR, PAUL Omar	0.0	445614
SMITH, CHRISTOPHER Scott	0.0	452619	SPARKS, CLIFFORD Paul	0.0	502476			

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	60 mile	10867423	60 mile	11259884	60 mile	11562538	60 mile

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

**TOTAL** Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					21 - Aug - 2013	16:00	MST
Form Type			BHST	On Location	21 - Aug - 2013	19:30	MST
Job depth MD	1220. ft		Job Depth TVD	Job Started	21 - Aug - 2013	02:49	MST
Water Depth			Wk Ht Above Floor	Job Completed	22 - Aug - 2013	03:44	MST
Perforation Depth (MD)	From		To	Departed Loc	22 - Aug - 2013	04:30	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					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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 ft <sup>3</sup> /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

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		20.00	bbl	.	.0	.0	.0	
2	VariCem GJ1 Lead Cement	VARICEM (TM) CEMENT (452009)	140.0	sacks	12.3	2.38	13.75		13.75
		13.75 Gal	FRESH WATER						
3	VariCem GJ1 Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75		11.75
		11.75 Gal	FRESH WATER						
4	Fresh Water Displacement		92.00	bbl	.	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement		Shut In: Instant			Lost Returns		Cement Slurry		Pad
Top Of Cement		5 Min			Cement Returns		Actual Displacement		Treatment
Frac Gradient		15 Min			Spacers		Load and Breakdown		Total Job
Rates									
Circulating		Mixing			Displacement			Avg. Job	
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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Well Name: SG	Well #: 31-22	API/UWI #:	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: CYCLONE 17	Rig/Platform Name/Num: 17		
Job Purpose: Cement Surface Casing		Ticket Amount:	
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK	Srv Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	08/21/2013 16:00							REQUESTED ON LOCATION AT 2130
Pre-Convoy Safety Meeting	08/21/2013 18:00							ALL HES PRESENT
Crew Leave Yard	08/21/2013 18:15							
Arrive At Loc	08/21/2013 19:30							RIG DRILLING
Assessment Of Location Safety Meeting	08/21/2013 19:45							ALL HES PRESENT
Rig-Up Equipment	08/21/2013 20:00							
Pre-Job Safety Meeting	08/22/2013 02:35							ALL HES PRESENT
Start Job	08/22/2013 02:49							TD 1220', TP 1208.5', SJ 44.75', OH 13.5", CSG 9.625", 32.3 #, MUD 10.1
Pump Water	08/22/2013 02:50		2	2			33.0	FILL LINES, FRESH WATER
Test Lines	08/22/2013 02:51		0.5	0.5				ALL LINES HELD PRESSURE AT 2937 PSI
Pump Spacer 1	08/22/2013 02:56		4	20			198.0	FRESH WATER
Pump Lead Cement	08/22/2013 03:03		8	59			290.0	140 SKS, 12.3 PPG, 2.38 FT3/SK, 13.75 GAL/SK
Pump Tail Cement	08/22/2013 03:13		8	60			300.0	160 SKS, 12.8 PPG, 2.11 FT3/SK, 11.75 GAL/SK
Shutdown	08/22/2013 03:21							WASH UP ON TOP OF PLUG
Drop Top Plug	08/22/2013 03:23							PLUG WENT

Sold To #: 300721

Ship To #: 3096060

Quote #:

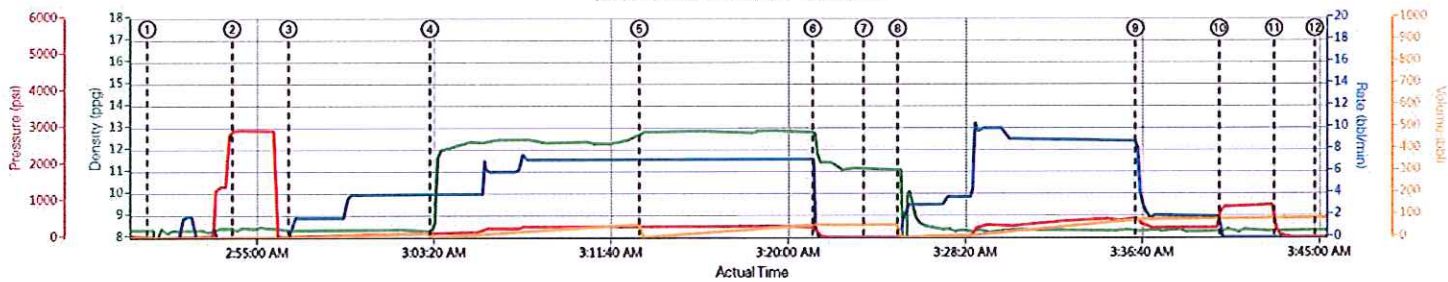
Sales Order #: 900681530

SUMMIT Version: 7.3.0106

Tuesday, August 27, 2013 04:40:00

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	08/22/2013 03:25		10	81.6			544.0	FRESH WATER
Slow Rate	08/22/2013 03:36		2	10			280.0	
Bump Plug	08/22/2013 03:40			91.6			880.0	PLUG BUMPED
Check Floats	08/22/2013 03:42							FLOATS HELD
End Job	08/22/2013 03:44							PIPE WAS NOT MOVED DURING THE JOB, GOOD RETURNS THROUGHOUT, 20 BBLs OF CEMENT TO SURFACE.
Post-Job Safety Meeting (Pre Rig-Down)	08/22/2013 03:55							ALL HES PRESENT
Rig-Down Equipment	08/22/2013 04:00							
Pre-Convoy Safety Meeting	08/22/2013 04:30							ALL HES PRESENT
Crew Leave Location	08/22/2013 04:45							THANK YOU FOR USING HALLIBURTON CEMENT, CHRIS SMITH AND CREW.

WPX - SG 31-22 - 9.626" SURFACE



DH Density (ppg)    Comb Pump Rate (bbbl/min)    FS Pump Press (ps)    Pump Stg Tot (bbl)

- ① Start Job
- ② Test Lines
- ③ Pump Spacer 1
- ④ Pump Lead Cement
- ⑤ Pump Tail Cement
- ⑥ Shutdown
- ⑦ Drop Top Plug
- ⑧ Pump Displacement
- ⑨ Slow Rate
- ⑩ Bump Plug
- ⑪ Check Floats
- ⑫ End Job

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Created: 2013-08-22 01:21:36, Version: 1.4.95

Edit

Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS  
 Representative: AL DUNIHOO

Job Date: 8/22/2013 2:39:16 AM  
 Sales Order #: 800681630

Well: SG 31-22  
 ELITE 2: C.SMITH/PSALAZAR

<b>Sales Order #:</b> 900681530	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/22/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> AFEYCUI3GLKTAN1AAAA
<b>Well Name:</b> SG		<b>Well Number:</b> 31-22
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> 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	8/22/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	AL DUNIHO
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	GOOD JOB MEN!

CUSTOMER SIGNATURE
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<b>Sales Order #:</b> 900681530	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 8/22/2013
<b>Customer:</b> WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> AL DUNIHOO		<b>API / UWI: (leave blank if unknown)</b> AFEYCUI3GLKTAN1AAAA
<b>Well Name:</b> SG		<b>Well Number:</b> 31-22
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	8/22/2013
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	2
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	1
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	7
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>Customer Representative:</b> AL DUNIHO		<b>API / UWI: (leave blank if unknown)</b> AFEYCUI3GLKTAN1AAAA
<b>Well Name:</b> SG		<b>Well Number:</b> 31-22
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	94
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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	93
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0