

**HALLIBURTON**

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**WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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GM 444-31  
GRAND VALLEY  
Garfield County , Colorado

**Squeeze Perfs**  
21-Feb-2012

**Post Job Summary**

*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 300721	Quote #:	Sales Order #: 9276302
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS		Customer Rep: Skalla, Justin	
Well Name: GM	Well #: 444-31	API/UWI #: 05-04519433	
Field: GRAND VALLEY	City (SAP): TULSA	County/Parish: Garfield	State: Colorado
Lat: N 39.479 deg. OR N 39 deg. 28 min. 44.4 secs.		Long: W 108.148 deg. OR W -109 deg. 51 min. 7.2 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: WORKOVER	
Job Purpose: Squeeze Perfs			
Well Type: Development Well		Job Type: Squeeze Perfs	
Sales Person: MAYO, MARK		Srvc Supervisor: NICKLE, RYON	MBU ID Emp #: 454759

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEUSSEN, EDWARD Eric	0.0	485182	HONE, AARON D	0.0	381285	NICKLE, RYON	0.0	454759
SINGLETON, AUSTIN W	0.0	487406						

**Equipment**

HES Unit #	Distance-1 way						
10616651C	60 mile	10722398	60 mile	10951250	60 mile	10995025	60 mile
11139330	60 mile	11583916	60 mile				

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL <span style="float: right;">Total is the sum of each column separately</span>								

**Job**

**Job Times**

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top	Called Out	21 - Feb - 2012	00:30 MST
Formation Depth (MD) Bottom	On Location	21 - Feb - 2012	05:00 MST
Form Type	BHST	Job Started	21 - Feb - 2012
Job depth MD	5486. ft	Job Depth TVD	5486. ft
Water Depth	Wk Ht Above Floor	Job Completed	21 - Feb - 2012
Perforation Depth (MD) From	To	Departed Loc	21 - Feb - 2012

**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
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**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI	1	JOB		

**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
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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	Injection Test		25.00	bbl	8.33	.0	.0	.0	
2	Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	200.0	sacks	17.	.99	3.77		3.77
		3.77 Gal FRESH WATER							
3	Displacement		4.00	bbl	8.33	.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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<b>Legal Description:</b>			
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Job Purpose: Squeeze Perfs			Ticket Amount:
Well Type: Development Well		Job Type: Squeeze Perfs	
Sales Person: MAYO, MARK		Srvc Supervisor: NICKLE, RYON	MBU ID Emp #: 454759

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/21/2012 00:30							HES CEMENT CREW
Pre-Convoy Safety Meeting	02/21/2012 03:15							ALL HES CEMENT CREW
Crew Leave Yard	02/21/2012 03:30							
Arrive At Loc	02/21/2012 05:00							RIG CREW ARRIVED ON LOCATION AT 0630
Assessment Of Location Safety Meeting	02/21/2012 05:05							ALL HES CEMENT CREW
Other	02/21/2012 05:15							SPOT EQUIPMENT; 1 CEMENTERS F 450, 1 ELITE PUMPING UNIT, 1 660 BULK TRANSPORT
Pre-Rig Up Safety Meeting	02/21/2012 06:20							ALL HES CEMENT CREW, RIG UP COMPLETE AT 0730, WAITED ON RIG CREW TO RUN TUBING DOWN HOLE AND COMPLETE INJECTION TEST- 35 BBLS @ 4BBLS / MIN @ 500 PSI
Pre-Job Safety Meeting	02/21/2012 09:20							ALL HES CEMENT CREW, RIG CREW, COMPANY REP, AVAILABLE 3RD PARTY EE'S
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments		
				Stage   Total	Tubing   Casing			

# HALLIBURTON

## Cementing Job Log

Start Job	02/21/2012 09:38							PACKER- 5366' TOP PERF- 5486' BRIDGE PLUG- 5790' W/ SAND ABOVE, PRODUCTION CASING- 4.5" 11.6#/FT I-80, TUBING- 2.375" 4.7# J-55 WELL FLUID- 8.4 PPG
Other	02/21/2012 09:38		2	2			.0	FILL LINES, FRESH WATER
Pressure Test	02/21/2012 09:40							FAILED PRESSURE TEST; NEW 2" VALVE NO ABLE TO HOLD PRESSURE, ISOLATED DRIVE SIDE PUMP
Pressure Test	02/21/2012 09:59							PRESSURE TEST PUMP TO 2782 PSI, HELD FOR 7 MINUTES
Pressure Test	02/21/2012 10:08							STALL OUT @ 1565 PSI, HELD FOR 30 SEC. PRESSURE UP TO 5042 PSI HELD FOR 2 MIN, PRESSURE DROP TO 5015 PSI
Injection Test	02/21/2012 10:13		2	25			.0	
Pump Cement	02/21/2012 10:26		2	33.4			38.0	200 SKS; 17 PPG; .99 FT3/SK, 3.77 GAL/SK
Pump Displacement	02/21/2012 10:44		1.6	4.3			4180. 0	FRESH WATER, MEASURED OUT OF DRIVER SIDE DISPLACEMENT TANK
Other	02/21/2012 10:45							WELL LOCKED UP, PER COMPANY REP SHUTDOWN AND TRANSFER TO RIG TO REVERSE OUT
Shutdown	02/21/2012 10:51							CALCULATED 15 BBLS CEMENT INTO PERFORATIONS, 85.2 SKS CEMENT
Other	02/21/2012 10:52							TURNED OVER TO RIG TO REVERSE OUT
End Job	02/21/2012 10:54							
Post-Job Safety Meeting (Pre Rig-Down)	02/21/2012 10:56							ALL HES CEMENT CREW
Pre-Convoy Safety Meeting	02/21/2012 13:15							ALL HES CEMENT CREW
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

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SUMMIT Version: 7.3.014

Tuesday, February 21, 2012 12:26:00

# HALLIBURTON

## *Cementing Job Log*

Crew Leave Location	02/21/2012 13:30							THANK YOU FOR USING HALLIBURTON CEMENTING, RYON NICKLE AND CREW
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Tuesday, February 21, 2012 12:26:00