

**HALLIBURTON**

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# **WPX ENERGY ROCKY MOUNTAIN LLC-EBUS**

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**GM 41-12  
GRAND VALLEY  
Garfield County , Colorado**

**Squeeze Perfs**  
**31-Jan-2013**

**Post Job Report**

### The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2965178		Quote #:		Sales Order #: 900176748	
Customer: WPX ENERGY ROCKY MOUNTAIN LLC-EBUS				Customer Rep: Jacobs, Oran			
Well Name: GM		Well #: 41-12		API/UWI #: 05-045-21715			
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.462 deg. OR N 39 deg. 27 min. 41.422 secs.				Long: W 108.052 deg. OR W -109 deg. 56 min. 53.776 secs.			
Contractor: WORKOVER		Rig/Platform Name/Num: WORKOVER					
Job Purpose: Squeeze Perfs							
Well Type: Development Well				Job Type: Squeeze Perfs			
Sales Person: MAYO, MARK				Srv Supervisor: KUKUS, CHRISTOPHER		MBU ID Emp #: 413952	
Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
GOWEN, WESLEY M	0.0	496205	KUKUS, CHRISTOPHER A	0.0	413952	MILLER, KEVIN Paul	0.0
WADE, LOGAN D	0.0	488896					
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248065	60 mile	10871245	60 mile	11583931	60 mile	11808831	60 mile
11989955	60 mile						
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
TOTAL		Total is the sum of each column separately					
Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)		Top	Bottom	Called Out	31 - Jan - 2013	01:00	MST
Form Type		BHST		On Location	31 - Jan - 2013	04:30	MST
Job depth MD		4961. ft	Job Depth TVD	4961. ft	Job Started	31 - Jan - 2013	08:33
Water Depth		Wk Ht Above Floor		5. ft	Job Completed	31 - Jan - 2013	11:18
Perforation Depth (MD)		From	To	Departed Loc	31 - Jan - 2013	12:30	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
Guide Shoe					Packer		
Float Shoe					Bridge Plug		
Float Collar					Retainer		
Insert Float							
Stage Tool							
Miscellaneous Materials							
Gelling Agt		Conc		Surfactant		Conc	Acid Type
Treatment Fld		Conc		Inhibitor		Conc	Sand Type
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 lbm/gal
							Yield ft3/sk
							Mix Fluid Gal/sk
							Rate bbl/min
							Total Mix Fluid Gal/sk

**HALLIBURTON****Cementing Job Summary**

<b>Stage/Plug #: 1</b>									
1	Injection Test		3.00	bbl	8.33	.0	.0	.0	
2	SqueezeCem Tail Cement	SQUEEZECEM (TM) SYSTEM (452971)	50.0	sacks	15.8	1.15	4.97		4.97
	4.97 Gal	FRESH WATER							
3	Displacement		17.00	bbl	8.33	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
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	
<b>Rates</b>									
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					



*The Road to Excellence Starts with Safety*

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Well Name: GM			Well #: 41-12			API/UWI #: 05-045-21715	
Field: GRAND VALLEY		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Legal Description:							
Lat: N 39.462 deg. OR N 39 deg. 27 min. 41.422 secs.				Long: W 108.052 deg. OR W -109 deg. 56 min. 53.776 secs.			
Contractor: WORKOVER			Rig/Platform Name/Num: WORKOVER				
Job Purpose: Squeeze Perfs					Ticket Amount:		
Well Type: Development Well			Job Type: Squeeze Perfs				
Sales Person: MAYO, MARK			Srcv Supervisor: KUKUS, CHRISTOPHER			MBU ID Emp #: 413952	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/31/2013 01:00							ELITE # 8
Depart Yard Safety Meeting	01/31/2013 03:30							SAFETY MEETING WITH ALL HES
Arrive At Loc	01/31/2013 04:30							ARRIVED ON LOCATION 1 1/2 HOURS EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME
Assessment Of Location Safety Meeting	01/31/2013 05:40							RIG RIH WITH TUBING
Pre-Rig Up Safety Meeting	01/31/2013 05:50							ALL HES EMPLOYEES
Rig-Up Equipment	01/31/2013 06:00							1 F-550 PICKUP 1 HT-400 PUMP TRUCK 1 BODY LOAD
Pre-Job Safety Meeting	01/31/2013 08:15							ALL PERSONNEL ON LOCATION
Start Job	01/31/2013 08:33							PERFS @ 4961 - 5184 2 3/8 4.7 # TUBING SET @ 5201 4 1/2 11.6 I-80 CSG BRIDGE PLUG@ 5204
Pressure Test	01/31/2013 08:36					5490.0		PRESSURE TEST OK
Injection Test	01/31/2013 08:43		1	2.8	2.8	1055.0		PUMP 2.8 BBL FRESH WATER INJECTION TEST
ISIP	01/31/2013 08:49							SHUTDOWN TO ESTABLISH ISIP @1040 PSI
Pump Spacer 1	01/31/2013 09:05		2	10	10	205.0		FRESH WATER SPACER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	01/31/2013 09:11							SHUTDOWN AND MIX UP CEMENT
Pump Tail Cement	01/31/2013 09:29		1	10.2	10.2	205.0		50 SKS 15.8 PPG 1.15 YEILD 4.97 GAL / SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT TAIL CEMENT
Pump Displacement	01/31/2013 09:34		1	17.3	17.3	318.0		FRESH WATER
Shutdown	01/31/2013 09:40			15.5	15.5	240.0		SHUTDOWN FOR PLUG TO BALANCE
Other	01/31/2013 09:41							RIG PULL OUT OF PLUG 18 STANDS OF TUBING HES WASHED UP PUMP WHILE RIG PULLED TUBING
Other	01/31/2013 10:08			4.5	4.5	25.0		HES FILLED TUBING WITH 6X5 USED 4.5 BBLS BEFORE SQUEEZEING ON PLUG PER CO-REP REQUEST
Start Squeeze	01/31/2013 10:12		0.4	4.5	4.5	140.0		START SQUEEZE ON PLUG
Shutdown	01/31/2013 10:14			5	5	194.0		SHUTDOWN TO HESITATE
Resume Squeeze	01/31/2013 10:16		0.4	5	5	193.0		RESUME SQUEEZE @ 193 PSI
Shutdown	01/31/2013 10:18			5.5	5.5	650.0		SHUTDOWN TO HESITATE
Resume Squeeze	01/31/2013 10:21		0.4	5.5	5.5	648.0		RESUME SQUEEZE @ 648 PSI
Shutdown	01/31/2013 10:22			6	6	1470.0		SHUTDOWN TO HESITATE
Resume Squeeze	01/31/2013 10:25		0.4	6	6	1334.0		RESUME SQUEEZE @ 1334 PSI
Shutdown	01/31/2013 10:26			6.2	6.2	1720.0		SHUTDOWN TO HESITATE
Resume Squeeze	01/31/2013 10:28		0.4	6.2	6.2	1100.0		RESUME SQUEEZE @1100 PSI
Shutdown	01/31/2013 10:30			6.5	6.5	1450.0		SHUTDOWN TO HESITATE
Resume Squeeze	01/31/2013 10:43		0.4	6.5	6.5	1118.0		RESUME SQUEEZE @ 1118 PSI
Shutdown	01/31/2013 10:44			6.7	6.7	1497.0		SHUTDOWN TO HESITATE



## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Resume Squeeze	01/31/2013 11:10		0.4	6.7	6.7	1144.0		RESUME SQUEEZE @1144 PSI
Shutdown	01/31/2013 11:11			7	7	1672.0		SHUTDOWN TO MONITOR PRESSURE @1672 PSI
Other	01/31/2013 11:15							RIG SHUT IN WELL WITH 1672 PSI WAS FINAL SQUEEZE PRESSURE
End Job	01/31/2013 11:18							TICKET CHANGES: CHANGED DEPTH CAHRGE TO 5201, TOOK OFF SUGAR, ADDED 2 ADD HOURS
Pre-Rig Down Safety Meeting	01/31/2013 11:25							ALL HES EMPLOYEES
Rig-Down Equipment	01/31/2013 11:30							
Pre-Convoy Safety Meeting	01/31/2013 12:20							ALL HES EMPLOYEES
Crew Leave Location	01/31/2013 12:30							THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

Sold To # : 300721

Ship To # :2965178

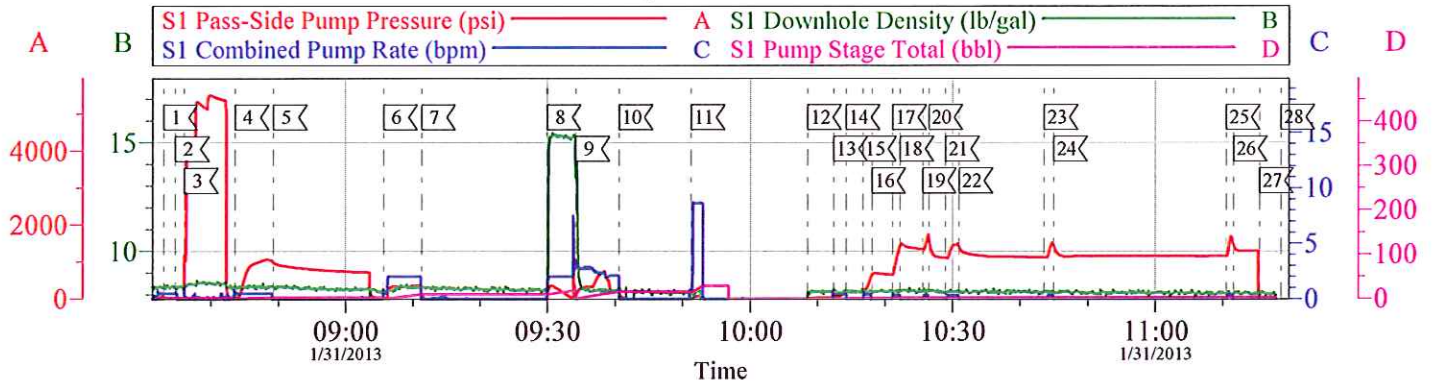
Quote # :

Sales Order # : 900176748

SUMMIT Version: 7.3.0073

Friday, February 01, 2013 03:31:00

# WPX - GM 41-12 SQUEEZE PERFS



## Local Event Log

1	START JOB	08:33:02	2	FILL LINES	08:34:46
3	TEST LINES	08:36:06	4	PUMP INJECTION TEST	08:43:37
5	SHUTDOWN / MONITOR PRESSURE	08:49:17	6	PUMP FRESH WATER SPACER	09:05:40
7	SHUTDOWN / MIX CEMENT	09:11:20	8	PUMP TAIL CEMENT	09:29:58
9	FRESH WATER BEHIND	09:34:15	10	SHUTDOWN / RIG PULL PIPE	09:40:37
11	WASH UP PUMP	09:51:15	12	FILL LINES	10:08:34
13	START SQUEEZE	10:12:25	14	SHUTDOWN	10:14:15
15	RESUME SQUEEZE	10:16:43	16	SHUTDOWN	10:18:05
17	RESUME SQUEEZE	10:21:10	18	SHUTDOWN	10:22:14
19	RESUME SQUEEZE	10:25:35	20	SHUTDOWN	10:26:30
21	RESUME SQUEEZE	10:28:58	22	SHUTDOWN	10:30:57
23	RESUME SQUEEZE	10:43:32	24	SHUTDOWN	10:44:56
25	RESUME SQUEEZE	11:10:32	26	SHUTDOWN	11:11:36
27	SHUT IN WELL / RELEASE PRESSURE	11:15:29	28	END JOB	11:18:40

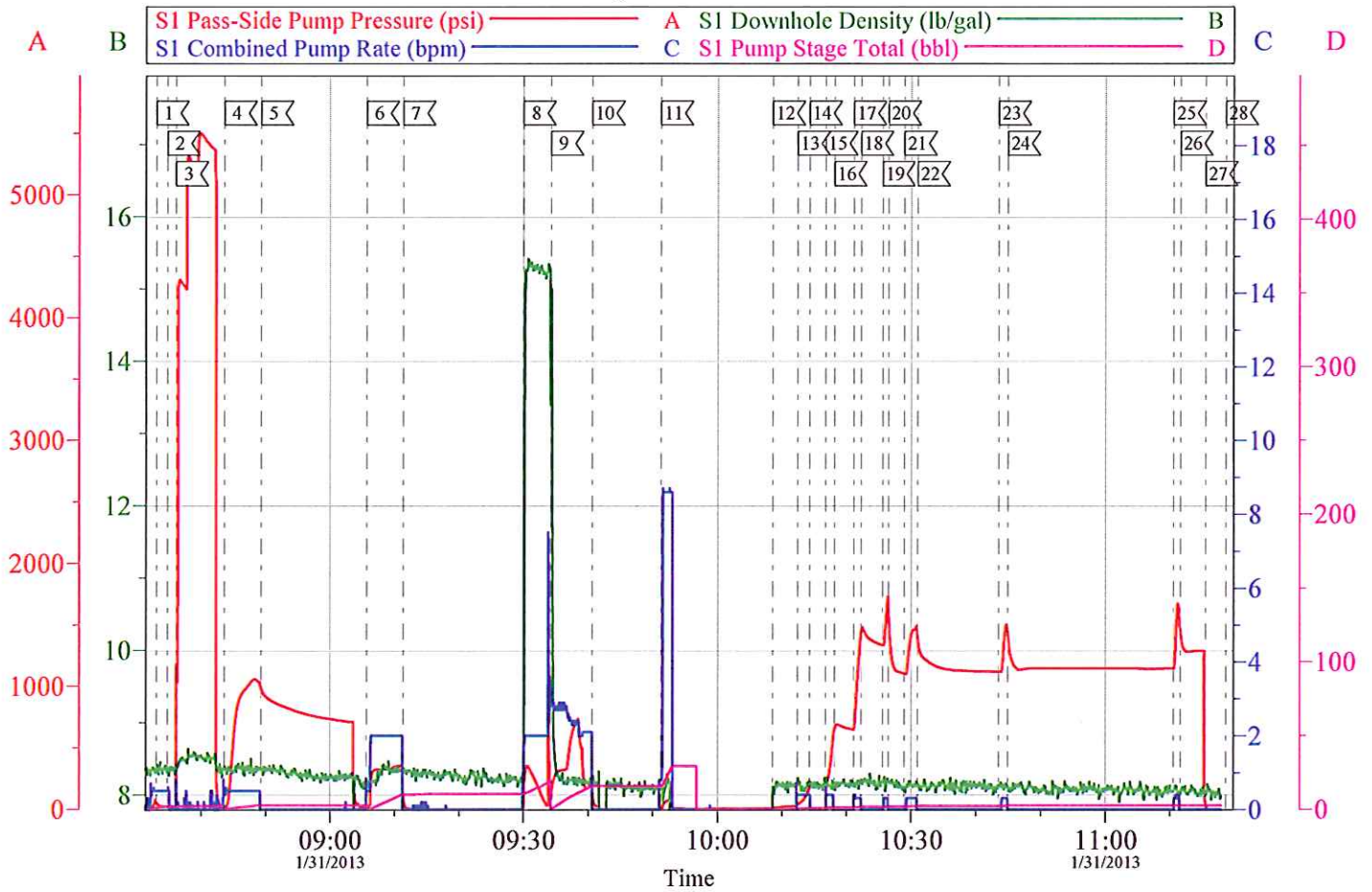
Customer: WPX  
Well Description: GM 41-12  
Company Rep: ORAN JACOBS

Job Date: 31-Jan-2013  
Job Type: SQUEEZE  
Cement Supervisor: CHRIS KUKUS

Sales Order #: 900176748  
ADC Used: YES  
Elite # 8: WESLEY GOWEN

OptiCem v6.4.10  
31-Jan-13 11:30

# WPX - GM 41-12 SQUEEZE PERFS



Customer: WPX	Job Date: 31-Jan-2013	Sales Order #: 900176748
Well Description: GM 41-12	Job Type: SQUEEZE	ADC Used: YES
Company Rep: ORAN JACOBS	Cement Supervisor: CHRIS KUKUS	Elite # 8: WESLEY GOWEN

OptiCem v6.4.10  
31-Jan-13 11:30