

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

<b>Sold To #:</b> 304535		<b>Ship To #:</b> 2326478		<b>Quote #:</b>		<b>Sales Order #:</b> 9367359	
<b>Customer:</b> PDC ENERGY EBUS				<b>Customer Rep:</b> SAILORS, CHAD			
<b>Well Name:</b> Johnson		<b>City (SAP):</b> KERSEY		<b>Well #:</b> 24-4		<b>API/UVI #:</b> 05-123-21306	
<b>Field:</b> WATTENBERG		<b>County/Parish:</b> Weld		<b>State:</b> Colorado			
<b>Lat:</b> N 40.51 deg. OR N 40 deg. 30 min. 35.784 secs.				<b>Long:</b> W 104.674 deg. OR W -105 deg. 19 min. 33.96 secs.			
<b>Job Purpose:</b> Recement Service							
<b>Well Type:</b> Development Well				<b>Job Type:</b> Recement Service			
<b>Sales Person:</b> FLING, MATTHEW				<b>Svc Supervisor:</b> NIELSON, BRANDON  <b>MBU ID Emp #:</b> 479703			

Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
BRICKER, DANIEL Z	4.5	475710	JEWELL, WILLIAM Urs	4.5	503358	NIELSON, BRANDON K	4.5
VIGIL, NICHOLAS Joseph	4.5	443481					

Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10961212	43 mile	11036301	43 mile	11341988C	43 mile		
11764739	43 mile						

Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
3-19-12	4.5	2					
<b>TOTAL</b>							

Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Date	Time	Time	Zone
<b>Form Type</b>							
Job depth MD	3150. ft		BHST	19 - Mar - 2012	03:30		CST
Water Depth			Job Depth TVD	19 - Mar - 2012	06:30		CST
Perforation Depth (MD)	From		Wk Ht Above Floor	19 - Mar - 2012	07:40		CST
	To		Job Completed	19 - Mar - 2012	10:00		CST
			Departed Loc	19 - Mar - 2012	11:00		CST

Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
Open Hole				12.			
Production Casing	Used		4.5	4.052	10.5		J-55
Surface Casing	Used		8.625	8.097	24.		J-55
TUBING	Unknown		1.25	.671	3.02		

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	Conc	Surfactant	Conc	Acid Type	Qty	Conc %
Treatment Fld		Conc	Inhibitor	Conc	Sand Type	Size	Qty

Stage/Plug #: 1				Fluid Data			
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk

1	ClayWeb Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12.00	bbl	8.4	.0	.0	2.0	
3	ClayWeb Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
59.525 gal/Mgal		CLA-WEB - TOTE (101985045)							
4	Varicem 12#	VARICEM (TM) CEMENT (452009)	490.0	sacks	12.	2.18	12.34	2.0	12.34
12.34 Gal		FRESH WATER							
<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		23.5 BBL	Actual Displacement		Treatment	
Frac Gradient		15 Min	Spacers		32 BBL	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				



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Customer: PDC ENERGY EBUS				Customer Rep: SAILORS, CHAD			
Well Name: Johnson		Well #: 24-4		API/UWI #: 05-123-21306			
Field: WATTENBERG		City (SAP): KERSEY		County/Parish: Weld		State: Colorado	
Legal Description:		Lat: N 40.51 deg. OR N 40 deg. 30 min. 35.784 secs.		Long: W 104.674 deg. OR W -105 deg. 19 min. 33.96 secs.			
Contractor:		Rig/Platform Name/Num:		Ticket Amount:			
Job Purpose: Recement Service		Job Type: Recement Service					
Well Type: Development Well		Srv Supervisor: NIELSON, BRANDON		MBU ID Emp #: 479703			
Sales Person: FLING, MATTHEW							
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments	
				Stage	Total	Tubing	Casing
Test Lines	03/19/2012 07:41						PRESSURE TEST TO 3500 PSI NO VISIBLE LEAKS
Pump Spacer 1	03/19/2012 07:44	2	10		1804.0		FRESH WATER MIXED WITH CLAWEB III
Pump Spacer 2	03/19/2012 07:50	2	12		1789.0		FRESH WATER MIXED WITH MUD FLUSH
Pump Spacer 1	03/19/2012 07:56	2	10		1725.0		FRESH WATER MIXED WITH CLAWEB III
Pump Cement	03/19/2012 08:01	2	95		1707.0		245 SKS SURFACE VARICEM MIXED WITH FRESH WATER @ 12 PPG
Pump Displacement	03/19/2012 08:51	2	1.5		2284.0		FRESH WATER
Shutdown	03/19/2012 08:52						PULL 49 JOINTS
Pump Cement	03/19/2012 09:19	2	95		1100.0		245 SKS SURFACE VARICEM MIXED WITH FRESH WATER @ 12 PPG
Pump Displacement	03/19/2012 09:57	2	1		1300.0		FRWSH WATER. 23.5 BBL CMT BACK TO SURFACE
Shutdown	03/19/2012 09:58						
End Job	03/19/2012 09:59						

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Quote #:

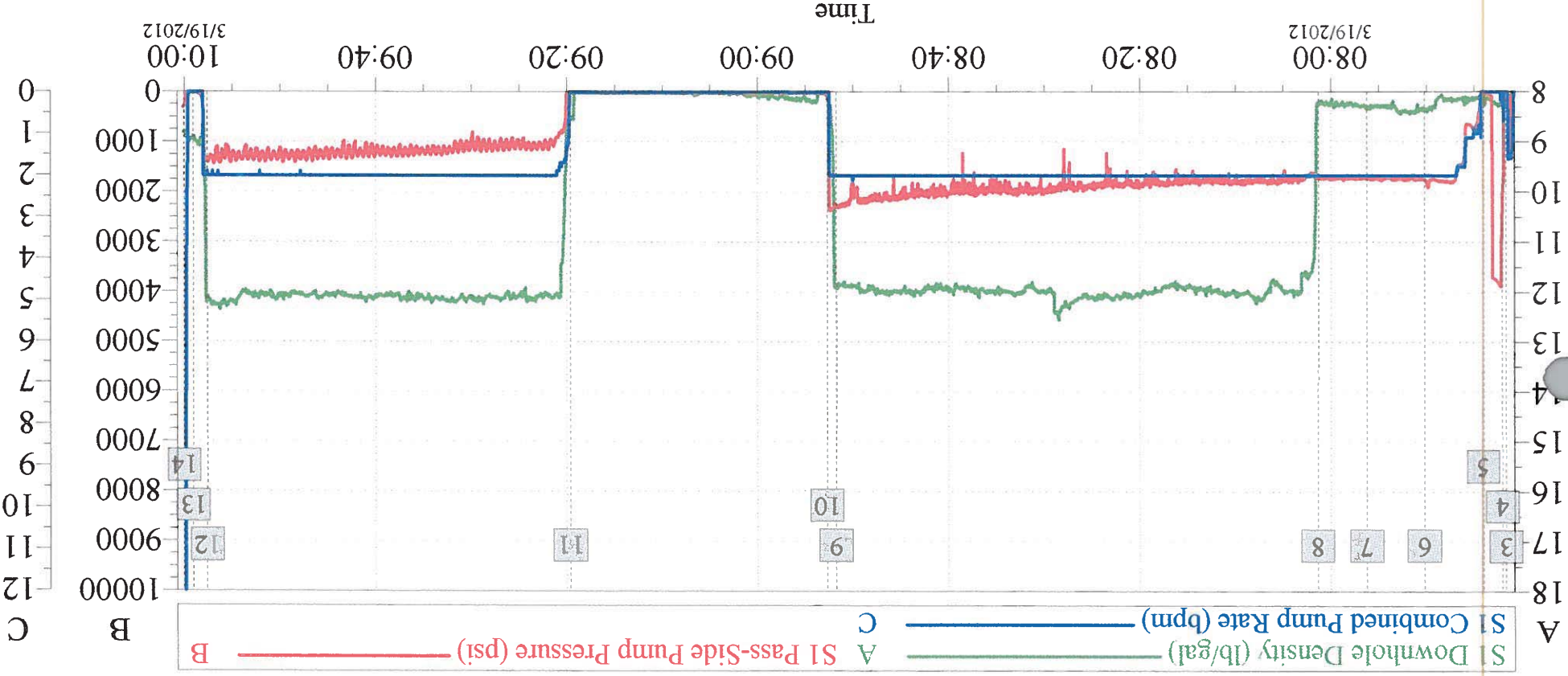
Sales Order #:

9367359

SUMMIT Version: 7.3.0021

Monday, March 19, 2012 10:11:00

# PDC JOHNSON 24-4 RECEMENT



1	Starting Job	07:12:21	30.00	2	Start Job	07:40:41	88.96	3	Test Lines	07:41:40	144.0	SPPP
4	Test Lines	07:42:03	2050	5	Pump Spacer 1	07:44:03	40.00	6	Pump Spacer 2	07:50:12	1748	
7	Pump Spacer 1	07:56:14	1725	8	Pump Cement	08:01:19	1707	9	Pump Displacement	08:51:48	2284	
10	Shutdown	08:52:44	81.99	11	Pump Cement	09:19:36	23.00	12	Pump Displacement	09:57:36	1370	
13	End Job	09:59:05	21.00	14	Ending Job	10:00:02	279.9					

Customer:	PDC	Job Date:	19-Mar-2012	Sales Order #:	9367359
Well Description:	RECEMENT	UWI:	05-123-21306-00	BWS	3
SERVICE SUPERVISOR	BRANDON NIELSON	OPERATOR	NICK VIGIL	PUMP	11341988