

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535		Ship To #: 2355985		Quote #:		Sales Order #: 8526009	
Customer: PDC ENERGY EBUS		Well Name: Catteman		Well #:		APUWV #:	
Field: Wattenberg		City (SAP): KERSEY		County/Parish: Weld		State: Colorado	
Job Purpose: Recement Service		Job Type: Recement Service		Job Supervisor: WHEELER, JUSTIN		MBU ID Emp #: 196470	
Well Type: Development Well		Sales Person: FLING, MATTHEW		Job Personnel			
HES Emp Name		Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	Emp #
CHAVEZ, JEROME		4	458298	KUNERT, RANDY Joe		4	477850
Christophe				TAYLOR, JOSHUA Lin		4	485939
WHEELER, JUSTIN		4	196470				
W							
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
1004864	45 mile	11106851	45 mile	11542778	45 mile	11764052	45 mile
11764737	45 mile						
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
10-5-11	4	3.5					
TOTAL		Total is the sum of each column separately					
Job Times							
Formation Name		Job		Job Times			
Formation Depth (MD)		Top	Bottom	Called Out		05 - Oct - 2011	04:00
Form Type		BHST		On Location		05 - Oct - 2011	06:45
Job depth MD		3157. ft	Job Depth TVD	3157. ft	Job Started	05 - Oct - 2011	07:40
Water Depth			Wk Ht Above Floor		Job Completed	05 - Oct - 2011	10:19
Perforation Depth (MD)		From	To	Departed Loc		05 - Oct - 2011	11:00
Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
Open Hole				9.			
Production Casing	Unknown		4.5	4.052	10.5		J-55
Surface Casing	Unknown		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		Surfactant		Conc	
Treatment Fld		Conc		Inhibitor		Conc	
Fluid Data							
Stage/Plug #: 1							

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	ClayFix III 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	CalFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0	
59.525 gal/Mgal			CLAYFIX 3, TOTETANK (101583425)						
4	Varicem 12#	VARICEM (TM) CEMENT (452009)	330.0	sacks	12.	2.18	12.34	2.0	12.34
12.34 Gal			FRESH WATER						
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	190.0	sacks	13.	1.71	8.84		8.84
8.84 Gal			FRESH WATER						
Calculated Values			Pressures			Volumes			
Displacement		Shut In: Instant	Lost Returns		Cement Slurry	185.9	Pad		
Top Of Cement	Surface	5 Min	Cement Returns	8 bbls	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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Sold To #: 304535		Ship To #: 2355985		Quote #:		Sales Order #: 8526009	
Customer: PDC ENERGY EBUS				Customer Rep: Sailors, Chad			
Well Name: Cattleman		Well #: 14-31D		API/UWI #:			
Field: Wattenberg		City (SAP): KERSEY		County/Parish: Weld		State: Colorado	
Legal Description:				Long:			
Lat:		Rig/Platform Name/Num:		Ticket Amount:			
Contractor:		Job Type: Recement Service					
Job Purpose: Recement Service		Well Type: Development Well		Srv Supervisor: WHEELER, JUSTIN			
Sales Person: FLING, MATTHEW				MBU ID Emp #: 196470			

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart from Service Center or Other Site	10/05/2011 06:00							
Arrive At Loc	10/05/2011 06:45							
Safety Meeting - Pre Rig-Up	10/05/2011 06:55							
Test Lines	10/05/2011 07:41							Test Lines to 3500 PSI, Tubing Set @ 3146'
Pump Spacer	10/05/2011 07:44		2	10		1750.0		Pump Clayfix Water
Pump Spacer	10/05/2011 07:50		2	12		1750.0		Pump Mud Flush
Pump Spacer	10/05/2011 07:54		2	10		1770.0		Pump Clayfix Water
Pump Cement	10/05/2011 07:58		2	128		1805.0		Mix and Pump 330 sks Cement @ 12 lb/gal
Pump Displacement	10/05/2011 09:06		2	1.5		2165.0		Pump Fresh Water Displacement
Shutdown	10/05/2011 09:08							Shut-Down
Pump Cement	10/05/2011 09:43		2	57.9		645.0		Mix and Pump 190 sks Cement @ 13 lb/gal
Cement Returns to Surface	10/05/2011 10:12							8 bbls Cement to Surface
Pump Displacement	10/05/2011 10:17		2	1		890.0		Pump Fresh Water Displacement
Shutdown	10/05/2011 10:18							Shut-Down
Safety Meeting - Pre Rig-Down	10/05/2011 10:30							
Safety Meeting - Departing Location	10/05/2011 11:00							