

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2359829	Quote #:	Sales Order #: 8526004
Customer: PDC ENERGY EBUS	Well #: 13-31D	Customer Rep:	
Well Name: Cattleman	City (SAP): KERSEY	County/Parish: Weld	API/UWI #:
Field: Wattenberg	State: Colorado		
Job Purpose: Recement Service	Job Type: Recement Service		
Well Type: Development Well	Srv Supervisor: ROSALES, MATTHEW	MBU ID Emp #: 392095	
Sales Person: FLING, MATTHEW			

Job Personnel			
HES Emp Name	Exp Hrs	Emp #	HES Emp Name
BULINSKI, MATTHEW J	4	483865	CARPENTER, JACOB Paul
ROSALES, MATTHEW John	4	392095	

Equipment			
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	35 mile	11526488	35 mile
5707C	35 mile	11605998	35 mile

Job Hours			
Date	On Location Hours	Operating Hours	Date
1005/11	4	2	
TOTAL			Total is the sum of each column separately

Job Times			
Formation Name	Top	Bottom	Time
Formation Depth (MD)			
Form Type	BHST	On Location	05 - Oct - 2011 07:00
Job depth MD	2550. ft	Job Started	05 - Oct - 2011 07:35
Water Depth	Wk Ht Above Floor	Job Completed	05 - Oct - 2011 09:30
Perforation Depth (MD)	From	Departed Loc	05 - Oct - 2011 11:00

Well Data			
Description	New / Used	Max pressure psig	Size in
Open Hole	Unknow		9.
Production Casing	n		4.5
Surface Casing	Unknow		8.625
TUBING	Unknow		1.25

Tools and Accessories			
Type	Size	Qty	Make
Guide Shoe			Packer
Float Shoe			Bridge Plug
Float Collar			Retainer
Insert Float			
Stage Tool			

Miscellaneous Materials			
Treatment Fld	Conc	Conc	Inhibitor
	Conc	Conc	

Fluid Data			
Stage/Plug #:	1		

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Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield #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	CalyFix 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)	255.0	sacks	12.	2.18	12.34	2.0	12.34
12.34 Gal FRESH WATER									
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	175.0	sacks	13.	1.71	8.84		8.84
8.84 Gal FRESH WATER									
Calculated Values			Pressures			Volumes			
Displacement		Shut In: Instant	Lost Returns	NO	Cement Slurry		144.9	Pad	
Top Of Cement	SURFACE	5 Min	Cement Returns	4BBL	Actual Displacement		2.5	Treatment	
Frac Gradient		15 Min	Spacers	32	Load and Breakdown			Total Job	179.4
Rates									
Circulating		Mixing	2	Displacement	2	Avg. Job			2
Cement Left In Pipe	Amount	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: Cattleman	Well #: 13-31D	State: Colorado	
Field: Wattenberg	City (SAP): KERSEY	County/Parish: Weld	
Legal Description:	Lat:	Long:	

Contractor:	Rig/Platform Name/Num:	Ticket Amount:
Job Purpose: Recement Service		
Well Type: Development Well	Job Type: Recement Service	
Sales Person: FLING, MATTHEW	Srv Supervisor: ROSALES, MATTHEW	MBU ID Emp #: 392095

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	10/05/2011 07:35							
Test Lines	10/05/2011 07:35		0.5	0.5			3500. 0	
Pump Spacer 1	10/05/2011 07:38		2	10	10		1450. 0	WATER SPACER WITH CLAYFIX
Pump Spacer 2	10/05/2011 07:42		2	12	22		1375. 0	MUD FLUSH
Pump Spacer 1	10/05/2011 07:48		2	10	32		1500. 0	WATER SPACER WITH CLAYFIX
Pump Lead Cement	10/05/2011 07:53		2	91.6	123.6		1500. 0	236sk, 514.48cuft, 2.18cuft/sk, 12.34gal/sk, 12#/gal, MIXED WITH WATER PROVIDED BY RIG
Pump Displacement	10/05/2011 08:36		2	1.5	125.1		1000. 0	FRESH WATER DISPLACE
Shutdown	10/05/2011 08:38							PULL 47 JOINTS OF TUBING OUT OF HOLE
Pump Tail Cement	10/05/2011 09:03		2	53.3	178.4		800.0	175sk, 299.25cuft, 1.71cuft/sk, 8.84gal/sk, 13#/gal, MIXED WITH WATER PROVIDED BY RIG
Pump Displacement	10/05/2011 09:31		2	1	179.4		200.0	FRESH WATER DISPLACE, 4BBL CEMENT TO SURFACE
End Job	10/05/2011 09:32							

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SUMMIT Version:

7.2.27

Wednesday, October 05, 2011 10:08:00