

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2365748	Quote #:	Sales Order #: 8123815
Customer: PDC ENERGY EBUS	Customer Rep:		
Well Name: Wells Ranch	Well #: 34-34	API/UWI #:	
Field: WATTENBERG	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: PETERSON, ERIC	Srv Supervisor: HUGHES, ERVIN	MBU ID Emp #: 100271	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FANTASIA, JOSEPH	4	485445	HUGHES, ERVIN	4	100271	LINEBARGER, JOSHUA W	4	419614
Brandon			Wayne					
MILLER, GEOFFREY	4	460232	PAUMEN, CORD	4	453759	Pliness, Ryan	4	490745
Alan			Anthony					
THOMPSON, STEVEN Darrin	4	445340						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248062C	55 mile	11064535	55 mile	11362287C	55 mile	11605599	55 mile
11606994	55 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
04/22/11	4	2						
TOTAL			Total is the sum of each column separately					

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	On Location	Date	Time	Time Zone
Form Type			BHST	On Location	22 - Apr - 2011	04:00		MST
Job depth MD	2707. ft		Job Depth TVD	2720. ft	Job Started	22 - Apr - 2011	07:00	MST
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	22 - Apr - 2011	08:01	MST
Perforation Depth (MD)	From	To	Departed Loc	22 - Apr - 2011	11:15			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
Open Hole				9.				411.	2707.		
Production	Unknown		4.5	4.052	10.5		J-55		6895.		
Casing	Unknown		8.625	8.097	24.		J-55		411.		
Surface Casing	Unknown										
TUBING	Unknown	1600	1.25	671	3.02				2707.		

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

Fluid Data

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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	CalyFix III Water Spacer			10.00	bbl	8.33	.0	.0	2.0				
59.525 gal/Mgal		CLAYFIX 3, TOTETANK (101583425)											
4	Varicem B1 12# 12.34 Gal	VARICEM (TM) CEMENT (452009)		381.0	sacks	12.	2.18	12.34	2.0	12.34			
FRESH WATER													
Calculated Values		Pressures		Volumes									
Displacement	2 BBL	Shut In: Instant		Lost Returns		Cement Slurry	147	Pad					
Top Of Cement		5 Min		Cement Returns	10	Actual Displacement	2	Treatment					
Frac Gradient		15 Min		Spacers	34	Load and Breakdown		Total Job	183				
Rates													
Circulating		Mixing	2	Displacement	2	Avg. Job	2						
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:	
Well Name: Wells Ranch	Well #: 34-34	API/UWI #:	
Field: WATTENBERG	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor:	Rig/Platform Name/Num:		
Job Purpose: Recement Service		Ticket Amount:	
Well Type: Development Well	Job Type: Recement Service		
Sales Person: PETERSON, ERIC	Srvc Supervisor: HUGHES, ERVIN	MBU ID Emp #: 100271	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	04/22/2011 07:00							Crew arrive on location.
Safety Huddle	04/22/2011 07:15							Pre rig up safety meeting
Rig-Up Equipment	04/22/2011 07:30							Spot and rig up equipment
Pre-Job Safety Meeting	04/22/2011 07:45							Pre job safety meeting
Pump Water	04/22/2011 08:00		1	1				Pump to fill lines
Test Lines	04/22/2011 08:02					3500. 0		Test pumps and lines
Pump Spacer 1	04/22/2011 08:05		2	10	10	1250. 0		Pump clayfix 3 water spacer
Pump Spacer 2	04/22/2011 08:13		2	12	22	1300. 0		Pump mudflush spacer
Pump Spacer 1	04/22/2011 08:19		2	10	32	1350. 0		Pump Clayfix 3 water spacer
Pump Cement	04/22/2011 08:24		2	85	117	1600. 0		Mix and pump 220 sks Varicem @ 12 ppq w/rig water
Pump Displacement	04/22/2011 09:08		2	1	118	1466. 0		Pump water displacement to clear lines.
Pause	04/22/2011 09:15							Wait on rig crew to pull 43 joints of tubing
Pump Cement	04/22/2011 09:33		2	62	180	700.0		Mix and pump 161 sks Varicem @ 12 ppq w/rig water
Pump Displacement	04/22/2011 10:06		2	1	181	700.0		Pump water displacement to clear lines
Release Tubing Pressure	04/22/2011 10:07					.0		Release pressure