

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2886033	Quote #:	Sales Order #: 9002958
Customer: PDC ENERGY EBUS		Customer Rep: Sailors, Chad	
Well Name: Francis	Well #: 11-8	API/UWI #: 05-123-22517	
Field:	City (SAP): GALETON	County/Parish: Weld	State: Colorado
Lat: N 40.506 deg. OR N 40 deg. 30 min. 23.184 secs.		Long: W 104.582 deg. OR W -105 deg. 25 min. 4.908 secs.	
Job Purpose: Recement Service		Well Type: Development Well	
Sales Person: FLING, MATTHEW		Job Type: Recement Service	Svc Supervisor:
		MBU ID Emp #:	

Job Personnel			
HES Emp Name	Exp Hrs	Emp #	HES Emp Name
BRICKER, DANIEL Z	4.0	475710	Hughes, Ervin
TAYLOR, JOSHUA	4.0	485939	

Equipment			
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11106651	45 mile	11362287C	45 mile
11764737	45 mile		

Job Hours					
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10-21-11	4.0	2.5			
TOTAL					

Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	21 - Oct - 2011	03:00	MST
Job depth MD	3100. ft		Job Depth TVD	3100. ft	Job Started	21 - Oct - 2011	06:30
Water Depth			Wk Ht Above Floor	3. ft	Job Completed	21 - Oct - 2011	10:05
Perforation Depth (MD)	From	To	Departed Loc	21 - Oct - 2011		11:00	MST

Well Data											
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MID ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Open Hole				9.				410.	3100.		
Production Casing	Unknown		4.5	4.052	10.5		J-55		7232.		
Surface Casing	Unknown		8.625	8.097	24.		J-55		410.		
TUBING	Unknown		1.25	.671	3.02				3100.		

Tools and Accessories									
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth
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	Surfactant	Conc	Depth	Type	Size	Qty	Conc	%
Treatment Fld	Clayfix 3	Conc	2.5m	Inhibitor				Acid Type	
								Sand Type	

Fluid Data									
Stage/Plug #:	1								

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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)	325.0	sacks	12.	2.18	12.34	2.0	12.34
12.34 Gal FRESH WATER									
5	VARICEM 13#	VARICEM (TM) CEMENT (452009)	95.0	sacks	13.	1.71	8.84	2.0	8.84
8.84 Gal FRESH WATER									
Calculated Values									
		Pressures	Volumes						
Displacement	2.5 bbl	Shut In: Instant	Lost Returns		0	Cement Slurry	156 bbls Pad		
Top Of Cement	Surface	5 Min	Cement Returns		10 bbls	Actual Displacement	2.5 bbls Treatment		
Frac Gradient		15 Min	Spacers		32 bbls	Load and Breakdown	Total Job		191 bbls
Rates									
Circulating	2	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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Field:	City (SAP): GALETON	County/Parish: Weld	State: Colorado
Legal Description:	Lat: N 40.506 deg. OR N 40 deg. 30 min. 23.184 secs. Long: W 104.582 deg. OR W -105 deg. 25 min. 4.908 secs.		
Contractor:	Rig/Platform Name/Num:		
Job Purpose: Recement Service	Ticket Amount:		
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Src Supervisor:		
	MBU ID Emp #:		

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments
Call Out	10/21/2011 03:00					Crew Called Out
Depart from Service Center or Other Site	10/21/2011 05:15					Depart Yard for Location
Arrive At Loc	10/21/2011 06:30					Arrive on Location
Pre-Rig Up Safety Meeting	10/21/2011 06:45					Conduct Hazard Hunt and Hold Pre Rig Up Safety Meeting
Rig-Up Equipment	10/21/2011 06:50					Spot and Rig Up Equipment
Safety Meeting - Pre Job	10/21/2011 07:30					Safety Meeting with Rig Crew
Test Lines	10/21/2011 07:43					Test Lines with Fresh Water to 3500 psi
Pump Spacer 1	10/21/2011 07:45	2	10	10	1450.0	Pump Clayfix Water Spacer @ 8.33 ppg
Pump Spacer 2	10/21/2011 07:51	2	12	22	1510.0	Pump Mudflush Spacer @ 8.40 ppg
Pump Spacer 1	10/21/2011 07:57	2	10	32	1470.0	Pump Clayfix Water Spacer @ 8.33 ppg
Pump Lead Cement	10/21/2011 08:02	2	126	158	1800.0	Pump 325 sks Varicem Cmt @ 12.0 ppg Mixed with Fresh Water
Pump Displacement	10/21/2011 09:10	2	1.5	159.5	1825.0	Pump 1.5 bbl Fresh Water Displacement
Other	10/21/2011 09:12					Rig to Pull 64 joints of tubing
Pump Tail Cement	10/21/2011 09:43	2	30	189.5	560.0	Pump 95 sks Varicem Cmt @ 13.0 ppg Mixed with Fresh Water
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl	Pressure psig	Comments

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Friday, October 21, 2011 10:32:00

Cementing Job Log

Pump Displacement	10/21/2011 10:00	2	1	190.5	570.0	Pump Clayfix Water Displacement @ 8.33 ppg, Good 10 bbls Cement Returns to Surface
Release Tubing Pressure	10/21/2011 10:02				.0	Release Pressure
Post-Job Safety Meeting (Pre Rig-Down)	10/21/2011 10:05					Safety Meeting
Rig-Down Equipment	10/21/2011 10:10					Rig Down Equipment and Prepare to Depart Location
Depart Location for Service Center or Other Site	10/21/2011 11:00					Depart Location

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