

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2840530	Quote #:	Sales Order #: 8007580
Customer: PDC ENERGY EBUS	Customer Rep:		
Well Name: J&L Farms	Well #: 32-19	API/UWI #:	
Field:	City (SAP): GILL	County/Parish: Weld	State: Colorado
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srv Supervisor: SANFORD, DALE	MBU ID Emp #:	219527

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	5	372277	CARLEY, WADE Scott	5	462208	IOERGER, TODD A	5	485941
SANFORD, DALE A	5	219527						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	45 mile	11036295	45 mile	11518550	45 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3-2-11	2	5						

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top		Bottom	Called Out	02 - Mar - 2011	03:30	MST
Form Type		BHST		On Location	02 - Mar - 2011	07:00	MST
Job depth MD	2457. ft	Job Depth TVD	2457. ft	Job Started	02 - Mar - 2011	09:00	MST
Water Depth		Wk Ht Above Floor		Job Completed	02 - Mar - 2011	11:00	MST
Perforation Depth (MD)	From		To	Departed Loc	02 - Mar - 2011	12:00	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.				408.	2464.	.	.
Production Casing	Unknown		4.5	4.052	10.5		J-55	.	7000.		
Surface Casing	Unknown		8.625	8.097	24.		J-55	.	408.		
Tubing	Unknown		1.25	.671	3.02			.	2464.		

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

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	CalyFix III Water Spacer		10.00	bbl	8.33	.0	.0	2.0			
59.525 gal/Mgal		CLAYFIX 3, TOTETANK (101583425)									
4	Extendacem 11.3#	EXTENDACEM (TM) SYSTEM (452981)	280.0	sacks	11.3	2.25	11.9	2.0	11.9		
11.9 Gal		FRESH WATER									
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	125.0	sacks	13.	1.74	8.95	2.0	8.95		
8.95 Gal		FRESH WATER									
Calculated Values			Pressures			Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad			
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment			
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job			
Rates											
Circulating		2		Mixing		2		Displacement		2	
Cement Left In Pipe		Amount		0 ft		Reason		Shoe Joint			
Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 3 @		ID	
The Information Stated Herein Is Correct				Customer Representative Signature							

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Well Name: J&L Farms	Well #: 32-19	API/UWI #:	
Field:	City (SAP): GILL	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: FLING, MATTHEW	Srv Supervisor: SANFORD, DALE	MBU ID Emp #:	219527

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	03/02/2011 09:00					2500.0		Water test ok
Pump Spacer 1	03/02/2011 09:02		2	10		2000.0		Clay fix water
Pump Spacer 1	03/02/2011 09:07		2	12		2000.0		Mud flush
Pump Spacer 1	03/02/2011 09:12		2	10		2000.0		Clay fix water
Pump Cement	03/02/2011 09:17		2	112		2000.0		280 Sks Extendacem Cmt @ 11.3#
Pump Displacement	03/02/2011 09:58		2	1		2000.0		Water
Shutdown	03/02/2011 10:00							
Pump Tail Cement	03/02/2011 10:38		2	38		700.0		125 Sks Varicem Cmt @ 13#
Pump Displacement	03/02/2011 10:58		2	0.5		700.0		Water
End Job	03/02/2011 10:59							17 Bbl Cmt to pit