

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2380185	Quote #:	Sales Order #: 9023978
Customer: PDC ENERGY EBUS	Customer Rep: ALVERADO, PHILLOP		
Well Name: Lawley	Well #: 33-4	API/UWI #: 05-123-22359	
Field:	City (SAP): GALETON	County/Parish: Weld	State: Colorado
Lat: N 40.513 deg. OR N 40 deg. 30 min. 46.188 secs.	Long: W 104.552 deg. OR W -105 deg. 26 min. 52.692 secs.		
Job Purpose: Recement Service			
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srvc Supervisor: NIELSON, BRANDON	MBU ID Emp #: 479703	

Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
DILLON, ALAN Davis	4	484871	MEADOWS, DANIEL Graham	4	500668	NIELSON, BRANDON K	4
VIGIL, NICHOLAS	4	443481					
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10951212	46 mile	10977079C	46 mile	11019824C	46 mile	11398490	46 mile
11562544C	46 mile						

Job Hours					
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/31/2011	4	1.5			
TOTAL			Total is the sum of each column separately		

Job			Job Times		
Formation Name					
Formation Depth (MD)	Top	Bottom	Called Out	Date	Time
Form Type		BHST	On Location	31 - Oct - 2011	07:00
Job depth MD	2093. ft	Job Depth TVD	2093. ft	31 - Oct - 2011	11:00
Water Depth		Wk Ht Above Floor	5. ft	31 - Oct - 2011	12:38
Perforation Depth (MD)	From	To	Job Completed	31 - Oct - 2011	13:57
			Departed Loc	31 - Oct - 2011	15:00

Well Data									
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft
Open Hole			9.				J-55	448.	2150.
Production Casing	Unknown		4.5	4.052	10.5		J-55		8250.
Surface Casing	Unknown		8.625	8.097	24.		J-55		448.
TUBING	Unknown		1.25	.671	3.02				2093.

Tools and Accessories									
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									

HALLIBURTON

Cementing Job Summary

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 13#	VARICEM (TM) CEMENT (452009)	370.0	sacks	13.	1.71	8.84	2.0	8.84
8.84 Gal FRESH WATER									
Calculated Values			Pressures			Volumes			
Displacement		Shut In: Instant	Lost Returns		Cement Slurry			Pad	
Top Of Cement		5 Min	Cement Returns	10 BBL	Actual Displacement			Treatment	
Frac Gradient		15 Min	Spacers	32BBL	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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Well Name: Lawley		Well #: 33-4		API/UWI #: 05-123-22359		State: Colorado	
Field:		City (SAP): GALETON		County/Parish: Weld			
Legal Description:							
Lat: N 40.513 deg. OR N 40 deg. 30 min. 46.188 secs.				Long: W 104.552 deg. OR W -105 deg. 26 min. 52.692 secs.			
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: NIELSON, BRANDON		MBU ID Emp #: 479703			

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	10/31/2011 12:39							PRESSURE TEST TO 3500 PSI
Pump Spacer 1	10/31/2011 12:42		1	10		1013.0		CLAYFIX WATER
Pump Spacer 2	10/31/2011 12:47		2	12	22	1015.0		MUD FLUSH
Pump Spacer 1	10/31/2011 12:53		2.2	10	32	1046.0		CLAYFIX WATER
Pump Cement	10/31/2011 12:58		2.2	112.5	159	1780.0		370 SKS VARICEM MIXED WITH RIG WATER @ 13 PPG. CMT RTURNED TO SURFACE AT 102 BBL AWAY WE GOT ROUGHLY 10 BBL CMT BACK TO PITS
Pump Displacement	10/31/2011 13:55		2	1	160	1818.0		RIG WATER
Shutdown	10/31/2011 13:56							
End Job	10/31/2011 13:57							

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SUMMIT Version: 7.2.27

Monday, October 31, 2011 02:26:00