

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	VarCem 12.0#	VARICEM (TM) CEMENT (452009)	270.0	sacks	12.	2.18	12.34	2.0	12.34
12.34 Gal FRESH WATER									
5	Varicem 13#	VARICEM (TM) CEMENT (452009)	230.0	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	7BBL	Actual Displacement			Treatment	
Frac Gradient		15 Min	Spacers		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	ID	ID
The Information Stated Herein Is Correct					Customer Representative Signature				

The Road to Excellence Starts with Safety

Sold To #: 304535	Ship To #: 2368010	Quote #:	Sales Order #: 9040475
Customer: PDC ENERGY EBUS	Customer Rep:		
Well Name: Schrant	Well #: 23-12	API/UWI #:	
Field: Wattenberg	City (SAP): LUCERNE	County/Parish: Weld	State: Colorado
Legal Description:	Long:		
Lat:	Rig/Platform Name/Num:		
Contractor:	Job Purpose: Recement Service	Ticket Amount:	
Well Type: Development Well	Job Type: Recement Service		
Sales Person: FLING, MATTHEW	Srv Supervisor: SIPNEFSKI, ROBERT	MBU ID Emp #: 419391	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	11/04/2011 11:30							
Rig-Up Equipment	11/04/2011 12:30							PERFORMED LOCATION ASSESSMENT PRIOR TO RIG UP.
Safety Meeting	11/04/2011 13:45							HELD SAFETY MEETING WITH ALL 3RD PARTY PERSONNEL.
Start Job	11/04/2011 14:13							
Test Lines	11/04/2011 14:18		0.5				3375.0	
Pump Spacer 1	11/04/2011 14:19		1.8	10			1369.0	10BBL OF H2O SPACER WITH CLAYFIX LLL @ 8.3PPG SUPPLIED BY RIG.
Pump Spacer 2	11/04/2011 14:25		1.8	12			1295.0	12BBL OF MUDDLUSH III @8.4PPG MIXED WITH H2O SUPPLIED BY RIG.
Pump Spacer 1	11/04/2011 14:35		1.8	10			1310.0	10BBL OF H2O SPACER WITH CLAYFIX III @ 8.3PPG SUPPLIED BY RIG.
Pump Lead Cement	11/04/2011 14:37		2	105			1863.0	270SKS OF VARICEM CMT. @ 12PPG MIXED WITH WATER SUPPLIED BY RIG.
Pump Displacement	11/04/2011 15:36		2	1.5			2028.0	PUMPED 1.5 BBL OF WATER SUPPLIED BY RIG.

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Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	11/04/2011 15:37							WAIT ON RIG TO PULL 56 JNTS OF TUBING.
Pump Tail Cement	11/04/2011 16:11		2	70			910.0	230SKS OF VARICEM CMT. @13PPG MIXED WITH WATER SUPPLIED BY RIG.
Pump Displacement	11/04/2011 16:49		2	0.5			1230. 0	PUMPED .5BBL OF WATER SUPPLIED BY RIG. 7BBL RETURNED BACK TO PIT.
End Job	11/04/2011 16:51							HELD PRE-RIG DOWN MEETING. PREPARE FOR DEPARTURE.

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