



Cement

Well Name: Wiedeman 28F-432

Cement

Surface Casing Cement, Casing, 11/1/2015 14:15

Type Casing	String Surface, 946.6ftKB	Start Date 11/1/2015	Cementing End Date 11/1/2015	Wellbore Original Hole	Job Drilling - original, 10/31/2015 23:00	Cementing Company Cementers Well Service Inc	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Surface Casing Cement					Objective			Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 948.0	Pump Start Date 11/1/2015		Pump End Date 11/1/2015		Top Plug? No	Btm Plug? No			
Initial Pump Rate (bbl/min) 4		Final Pump Rate (bbl/min) 5		Avg Pump Rate (bbl/min) 5		Final Pump Pressure (psi) 300.0		Plug Bump Pressure (psi) 600.0		Pressure Held (psi) 600.0		Pressure Release Date 11/1/2015		Full Return? No		Vol Cement Ret (bbl) 8.0		Volume Lost (bbl)	
Recip? No	Stroke (ft)	Recip Rate (...)		Rotat... No	RPM (rpm)		Pipe Movement Note			MD Tagged...	Tag Method		Tag Wt (100...	Prop... No	Depth Plug...	Tag Cement Date		Drill Out Date	Drill Out Dia (...)

Cement Fluids

Fluid	Est Top (ftKB)	Est Btm (ftKB)	Pump Start Date	Pump End Date	Class	Amount (sacks)	Mix H2O Ratio (gal/sack)	Yield (ft³/sack)	Vol Pumped (bbl)	Excess (%)	Dens (lb/gal)
Tail	13.0	948.0	11/1/2015	11/1/2015	NEAT	510	5.20	1.18	107.1		15.20

Intermediate Casing Cement, Casing, 11/4/2015 16:00

Type Casing	String Intermediate, 7,708.7ftKB	Start Date 11/4/2015	Cementing End Date 11/4/2015	Wellbore Original Hole	Job Drilling - original, 10/31/2015 23:00	Cementing Company Sanjel (USA) Inc	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Intermediate Casing Cement					Objective		Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 7,709.0	Pump Start Date 11/4/2015		Pump End Date 11/4/2015		Top Plug? No	Btm Plug? No				
Initial Pump Rate (bbl/min) 4		Final Pump Rate (bbl/min) 8		Avg Pump Rate (bbl/min) 6		Final Pump Pressure (psi) 1,600.0		Plug Bump Pressure (psi) 2,600.0		Pressure Held (psi) 2,600.0		Pressure Release Date 11/4/2015		Full Return? No	Vol Cement Ret (bbl) 15.0		Volume Lost (bbl) 16.0		
Recip? No	Stroke (ft)	Recip Rate (...)		Rotat... No	RPM (rpm)		Pipe Movement Note			MD Tagged...	Tag Method		Tag Wt (100...	Prop... No	Depth Plug...	Tag Cement Date		Drill Out Date	Drill Out Dia (...)

Cement Fluids

Fluid	Est Top (ftKB)	Est Btm (ftKB)	Pump Start Date	Pump End Date	Class	Amount (sacks)	Mix H2O Ratio (gal/sack)	Yield (ft³/sack)	Vol Pumped (bbl)	Excess (%)	Dens (lb/gal)
Lead	13.0	5,518.0	11/4/2015	11/4/2015	1:1:POZ TYPE III	505	9.57	1.81	162.8		12.50
Tail	5,518.0	7,709.0	11/4/2015	11/4/2015	1:1:2 POZ: G: GEL	275	5.93	1.42	69.8		14.60

Liner Cement, Casing, 11/8/2015 01:40

Type Casing	String Liner, 11,702.0ftKB	Start Date 11/8/2015	Cementing End Date 11/8/2015	Wellbore Original Hole	Job Drilling - original, 10/31/2015 23:00	Cementing Company Sanjel (USA) Inc	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1				Description Liner Cement				Objective				Top Depth (ftKB) 6,689.1		Bottom Depth (ftKB) 11,706.0		Pump Start Date 11/8/2015			Pump End Date 11/8/2015			Top Plug? No		Btm Plug? No							
Initial Pump Rate (bbl/min) 5				Final Pump Rate (bbl/min) 5		Avg Pump Rate (bbl/min) 5		Final Pump Pressure (psi) 2,000.0		Plug Bump Pressure (psi) 3,130.0		Pressure Held (psi) 3,130.0		Pressure Release Date 11/8/2015			Full Return? No		Vol Cement Ret (bbl) 19.0			Volume Lost (bbl)									
Recip? No		Stroke (ft)		Recip Rate (...)		Rotat... No		RPM (rpm)		Pipe Movement Note				MD Tagged...		Tag Method			Tag Wt (100...		Prop... No		Depth Plug...		Tag Cement Date			Drill Out Date		Drill Out Dia (...)	

Cement Fluids

Fluid	Est Top (ftKB)	Est Btm (ftKB)	Pump Start Date	Pump End Date	Class	Amount (sacks)	Mix H2O Ratio (gal/sack)	Yield (ft³/sack)	Vol Pumped (bbl)	Excess (%)	Dens (lb/gal)
Tail	6,689.1	11,706.0	11/8/2015	11/8/2015	SAN TAIL WB	465	6.19	1.25	104.0		13.50