



Cement

Well Name: Wiedeman Trust Federal 29P-212

Cement

Surface Casing Cement, Casing, 1/28/2016 14:00

Type Casing	String Surface, 907.0ftKB	Start Date 1/28/2016	Cementing End Date 1/28/2016	Wellbore Original Hole	Job Drilling - original, 1/28/2016 00:45	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) 907.0	Pump Start Date 1/28/2016		Pump End Date 1/28/2016		Top Plug? Yes	Btm Plug? No				
Initial Pump Rate (bbl/min) 4		Final Pump Rate (bbl/min) 5		Avg Pump Rate (bbl/min) 4		Final Pump Pressure (psi) 395.0		Plug Bump Pressure (psi) 1,050.0		Pressure Held (psi) 1,050.0		Pressure Release Date 1/28/2016		Full Return? Yes	Vol Cement Ret (bbl) 6.0		Volume Lost (bbl) 0.0		
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	907.0	1/28/2016	1/28/2016	G	480	5.20	1.18	100.8		15.20

Intermediate Casing Cement, Casing, 1/31/2016 09:45

Type Casing	String Intermediate, 7,551.0ftKB	Start Date 1/31/2016	Cementing End Date 1/31/2016	Wellbore Original Hole	Job Drilling - original, 1/28/2016 00:45	Cementing Company Halliburton Energy Services	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) 7,551.0	Pump Start Date 1/31/2016		Pump End Date 1/31/2016		Top Plug? Yes	Btm Plug? No				
Initial Pump Rate (bbl/min) 4		Final Pump Rate (bbl/min) 8		Avg Pump Rate (bbl/min) 8		Final Pump Pressure (psi) 2,054.0		Plug Bump Pressure (psi) 2,530.0		Pressure Held (psi) 2,530.0		Pressure Release Date 1/31/2016		Full Return? Yes	Vol Cement Ret (bbl) 5.0		Volume Lost (bbl) 0.0		
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	7,551.0	1/31/2016	1/31/2016	Elasticem	813	7.11	1.60	231.7		13.80

Liner Cement, Casing, 2/5/2016 22:00

Type Casing	String Liner, 14,926.0ftKB	Start Date 2/5/2016	Cementing End Date 2/6/2016	Wellbore Original Hole	Job Drilling - original, 1/28/2016 00:45	Cementing Company Halliburton Energy Services	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Liner Cement				Objective			Top Depth (ftKB) 6,479.5	Bottom Depth (ftKB) 14,926.0	Pump Start Date 2/5/2016		Pump End Date 2/6/2016		Top Plug? No	Btm Plug? Yes					
Initial Pump Rate (bbl/min) 3		Final Pump Rate (bbl/min) 5		Avg Pump Rate (bbl/min) 4		Final Pump Pressure (psi) 1,650.0		Plug Bump Pressure (psi) 2,350.0		Pressure Held (psi) 2,800.0		Pressure Release Date 2/6/2016		Full Return? Yes	Vol Cement Ret (bbl) 17.0		Volume Lost (bbl) 0.0			
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	6,479.5	14,926.0	2/5/2016	2/6/2016	EXPANDACEM	642	7.72	1.67	191.0		13.80