



# Cement

Well Name: Wiedeman 28E-234

## Cement

### Surface Casing Cement, Casing, 8/24/2015 01:45

Type Casing	String Surface, 931.0ftKB	Start Date 8/24/2015	Cementing End Date 8/24/2015	Wellbore Original Hole	Job Drilling - original, 8/22/2015 23:00	Cementing Company Cementers Well Service Inc	Cement Objective ISOLATION	Eval Method Returns to Surface
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#### Cement Stages

Stg # 1	Description Surface Casing Cement	Objective ISOLATION	Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 931.0	Pump Start Date 8/24/2015	Pump End Date 8/24/2015	Top Plug? Yes	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) 400.0	Plug Bump Pressure (psi) 850.0	Pressure Held (psi) 850.0	Pressure Release Date 8/24/2015	Full Return? Yes	Vol Cement Ret (bbl) 7.0	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)
Tail	13.0	931.0	8/24/2015	8/24/2015	G	490		1.18	102.9		15.20

### Intermediate Casing Cement, Casing, 8/27/2015 04:45

Type Casing	String Intermediate, 7,512.0ftKB	Start Date 8/27/2015	Cementing End Date 8/27/2015	Wellbore Original Hole	Job Drilling - original, 8/22/2015 23:00	Cementing Company Halliburton Energy Services	Cement Objective ISOLATION	Eval Method Returns to Surface
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#### Cement Stages

Stg # 1	Description Intermediate Casing Cement	Objective ISOLATION	Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 7,512.0	Pump Start Date 8/27/2015	Pump End Date 8/27/2015	Top Plug? No	Btm Plug? Yes					
Initial Pump Rate (bbl/min) 2	Final Pump Rate (bbl/min) 8	Avg Pump Rate (bbl/min) 5	Final Pump Pressure (psi) 3,200.0	Plug Bump Pressure (psi) 3,895.0	Pressure Held (psi) 3,895.0	Pressure Release Date 8/27/2015	Full Return? Yes	Vol Cement Ret (bbl) 15.0	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	7,512.0	8/27/2015	8/27/2015	ELASTICEM	804	7.08	1.60	229.1	15.0	13.80

### Liner Cement, Casing, 9/3/2015 18:30

Type Casing	String Liner, 14,215.0ftKB	Start Date 9/3/2015	Cementing End Date 9/3/2015	Wellbore Original Hole	Job Drilling - original, 8/22/2015 23:00	Cementing Company Halliburton Energy Services	Cement Objective ISOLATION	Eval Method Calculated
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#### Cement Stages

Stg # 1	Description Liner Cement	Objective ISOLATION	Top Depth (ftKB) 6,475.3	Bottom Depth (ftKB) 14,215.0	Pump Start Date 9/3/2015	Pump End Date 9/3/2015	Top Plug? Yes	Btm Plug? No					
Initial Pump Rate (bbl/min) 3	Final Pump Rate (bbl/min) 3	Avg Pump Rate (bbl/min) 5	Final Pump Pressure (psi) 1,900.0	Plug Bump Pressure (psi) 2,287.0	Pressure Held (psi) 2,287.0	Pressure Release Date 9/3/2015	Full Return? Yes	Vol Cement Ret (bbl) 0.0	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	6,475.3	14,215.0	9/3/2015	9/3/2015	ELASTICEM	560	7.73	1.67	166.6	30.0	13.80