



Cement

Well Name: Becker Ranch 5M-203

Cement

Surface Casing Cement, Casing, 3/8/2015 18:00

Type Casing	String Surface, 927.1ftKB	Start Date 3/8/2015	Cementing End Date 3/8/2015	Wellbore Original Hole	Job Drilling - original, 3/5/2015 18:00	Cementing Company Cementers Energy	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Surface Casing Cement				Objective CEMENT SURFACE PIPE			Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 927.1	Pump Start Date 3/8/2015		Pump End Date 3/8/2015		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) 300.0		Plug Bump Pressure (psi) 800.0		Pressure Held (psi) 800.0		Pressure Release Date 3/8/2015		Full Return? Yes	Vol Cement Ret (bbl) 8.0		Volume Lost (bbl) 0.0		
Recip? No	Stroke (ft)	Recip Rate (...)		Rotat... No	RPM (rpm)		Pipe Movement Note			MD Tagged (...) 13.0	Tag Method Drill Bit		Tag Wt (100... 2	Prop... No	Depth Plug... 940.0	Tag Cement Date 3/9/2015		Drill Out Date 3/9/2015	Drill Out Dia (...) 8 3/4

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	927.0	3/8/2015	3/8/2015	G	770	5.30	1.18	161.8	100.0	15.20

Intermediate Casing Cement, Casing, 3/14/2015 00:30

Type Casing	String Intermediate, 7,553.4ftKB	Start Date 3/14/2015	Cementing End Date 3/14/2015	Wellbore Original Hole	Job Drilling - original, 3/5/2015 18:00	Cementing Company Baker Hughes	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) 7,553.4		Pump Start Date 3/14/2015			Pump End Date 3/14/2015			Top Plug? No		Btm Plug? Yes			
Initial Pump Rate (bbl/min) 5			Final Pump Rate (bbl/min) 2		Avg Pump Rate (bbl/min) 3		Final Pump Pressure (psi) 5,000.0		Plug Bump Pressure (psi) 5,500.0		Pressure Held (psi) 2,500.0		Pressure Release Date 3/14/2015			Full Return? No		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	6,175.0	6,175.0	3/14/2015	3/14/2015	Premium Lite	322	18.10	2.99	171.4	18.0	11.20
Tail	6,175.0	7,553.4	3/14/2015	3/14/2015	50/50 poz	267	5.90	1.38	65.7	18.0	14.60