



Cement

Well Name: Peterson 14X-234

Cement

Surface Casing Cement, Casing, 1/3/2015 09:00

Type Casing	String Surface, 930.0ftKB	Start Date 1/3/2015	Cementing End Date 1/3/2015	Wellbore Original Hole	Job Drilling - original, 1/2/2015 01:45	Cementing Company Cementers Energy	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Surface Casing Cement					Objective		Top Depth (ftKB) 15.0	Bottom Depth (ftKB) 933.0	Pump Start Date 1/3/2015		Pump End Date 1/3/2015		Top Plug? No	Btm Plug? No		
Initial Pump Rate (bbl/min) 4		Final Pump Rate (bbl/min) 5		Avg Pump Rate (bbl/min)		Final Pump Pressure (psi)	Plug Bump Pressure (psi) 500.0	Pressure Held (psi) 0.0	Pressure Release Date		Full Return? Yes	Vol Cement Ret (bbl) 6.0		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	15.0	930.0	1/3/2015	1/3/2015	G	840		1.18	176.5	100.0	15.20

Intermediate Casing Cement, Casing, 1/9/2015 10:00

Type Casing	String Intermediate, 6,966.0ftKB	Start Date 1/9/2015	Cementing End Date 1/9/2015	Wellbore Original Hole	Job Drilling - original, 1/2/2015 01:45	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) 15.0	Bottom Depth (ftKB) 6,966.0	Pump Start Date 1/9/2015		Pump End Date 1/9/2015		Top Plug? No	Btm Plug? No		
Initial Pump Rate (bbl/min) 5		Final Pump Rate (bbl/min) 3		Avg Pump Rate (bbl/min) 4		Final Pump Pressure (psi) 300.0	Plug Bump Pressure (psi) 1,900.0	Pressure Held (psi)		Pressure Release Date		Full Return? Yes	Vol Cement Ret (bbl)		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)
Lead	15.0	5,000.0	1/9/2015	1/9/2015	Premium Lite	350		2.33	186.4		11.50
Tail	5,000.0	6,966.0	1/9/2015	1/9/2015	50/50 poz	325		1.38	79.9		14.60

Production Casing Cement, Casing, 1/13/2015 11:15

Type Casing	String Liner, 10,844.0ftKB	Start Date 1/13/2015	Cementing End Date 1/13/2015	Wellbore Original Hole	Job Drilling - original, 1/2/2015 01:45	Cementing Company Sanjel (USA) Inc	Cement Objective	Eval Method Calculated
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Cement Stages

Stg # 1	Description Production Casing Cement				Objective		Top Depth (ftKB) 5,865.7	Bottom Depth (ftKB) 10,844.0	Pump Start Date 1/13/2015		Pump End Date 1/13/2015		Top Plug? No	Btm Plug? No				
Initial Pump Rate (bbl/min)		Final Pump Rate (bbl/min)		Avg Pump Rate (bbl/min)		Final Pump Pressure (psi)		Plug Bump Pressure (psi)		Pressure Held (psi)		Pressure Release Date		Full Return? No	Vol Cement Ret (bbl)	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)
Lead	5,865.7	10,844.0	1/13/2015	1/13/2015	SanTail WB	440		1.25	98.0		13.50