



Cement

Well Name: Lajco 17R-303

Cement

Surface Casing Cement, Casing, 12/23/2015 08:30

Type Casing	String Surface, 1,226.0ftKB	Start Date 12/23/2015	Cementing End Date 12/23/2015	Wellbore Original Hole	Job Drilling - original, 12/22/2015 09:00	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) 1,226.0		Pump Start Date 12/23/2015			Pump End Date 12/23/2015			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) 400.0		Plug Bump Pressure (psi) 700.0		Pressure Held (psi) 700.0			Pressure Release Date 12/23/2015			Full Return? No		Vol Cement Ret (bbl) 7.0			Volume Lost (bbl)									
Recip? No		Stroke (ft)		Recip Rate (...)		Rotat... No		RPM (rpm)		Pipe Movement Note				MD Tagged... 1,182.0		Tag Method Drill Bit			Tag Wt (100... 0		Prop... No		Depth Plug... 1,240.0		Tag Cement Date 12/23/2015			Drill Out Date 12/23/2015		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)
Tail	13.0	1,226.0	12/23/2015	12/23/2015	NEAT	650	5.30	1.18	136.6		15.20

Production Casing Cement, Casing, 12/30/2015 08:00

Type Casing	String Production, 11,465.1ftKB	Start Date 12/30/2015	Cementing End Date 12/30/2015	Wellbore Original Hole	Job Drilling - original, 12/22/2015 09:00	Cementing Company Sanjel (USA) Inc	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Production Casing Cement					Objective			Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 11,465.0	Pump Start Date 12/30/2015			Pump End Date 12/30/2015			Top Plug? No	Btm Plug? No				
Initial Pump Rate (bbl/min) 8		Final Pump Rate (bbl/min) 8		Avg Pump Rate (bbl/min) 8		Final Pump Pressure (psi) 1,500.0		Plug Bump Pressure (psi) 2,500.0		Pressure Held (psi) 2,500.0		Pressure Release Date 12/30/2015			Full Return? No		Vol Cement Ret (bbl) 40.0		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)
Lead	13.0	5,600.0	12/30/2015	12/30/2015	1:1:0 POZ TYPE 111	885	9.25	2.14	273.0		12.50
Tail	5,600.0	11,465.0	12/30/2015	12/30/2015	1:2:0 POZ G	890	9.21	1.71	296.0		13.50