



# Cement

Well Name: Lajco 17R-403

## Cement

### Surface Casing Cement, Casing, 12/15/2015 19:45

Type Casing	String Surface, 1,234.2ftKB	Start Date 12/15/2015	Cementing End Date 12/15/2015	Wellbore Original Hole	Job Drilling - original, 12/14/2015 18:00	Cementing Company Cementers Energy	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) 1,234.2		Pump Start Date 12/15/2015		Pump End Date 12/15/2015		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) 480.0		Plug Bump Pressure (psi) 950.0		Pressure Held (psi) 950.0		Pressure Release Date 12/16/2015			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... 1,182.0		Tag Method Drill Bit		Tag Wt (100... 5		Prop... No		Depth Plug... 1,245.0		Tag Cement Date 12/16/2015		Drill Out Date 12/16/2015		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	1,234.2	12/15/2015	12/15/2015	G	655	5.20	1.18	137.6		15.20

### Production Casing Cement, Casing, 12/22/2015 00:00

Type Casing	String Production, 10,915.8ftKB	Start Date 12/22/2015	Cementing End Date 12/22/2015	Wellbore Original Hole	Job Drilling - original, 12/14/2015 18:00	Cementing Company Sanjel (USA) Inc	Cement Objective ISOLATION	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) 10,915.8	Pump Start Date 12/22/2015		Pump End Date 12/22/2015		Top Plug? Yes	Btm Plug? No			
Initial Pump Rate (bbl/min) 8		Final Pump Rate (bbl/min) 14		Avg Pump Rate (bbl/min) 9		Final Pump Pressure (psi) 1,500.0	Plug Bump Pressure (psi) 2,500.0		Pressure Held (psi) 2,500.0		Pressure Release Date 12/22/2015		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	13.0	5,600.0	12/22/2015	12/22/2015	1:1:0 Poz: TYPE III	861	9.24	1.73	265.0		12.50
Tail	5,600.0	10,915.8	12/22/2015	12/22/2015	1:2:0 Poz G	869	9.21	1.87	265.0		13.50