



Cement

Well Name: Sater 19J-323

Cement

Surface Casing Cement, Casing, 2/25/2016 17:30

Type Casing	String Surface, 1,622.0ftKB	Start Date 2/25/2016	Cementing End Date 2/25/2016	Wellbore Original Hole	Job Drilling - original, 2/25/2016 06:30	Cementing Company Cementers Well Service Inc	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg #	Description	Objective			Top Depth (ftKB)	Bottom Depth (ftKB)	Pump Start Date	Pump End Date	Top Plug?	Btm Plug?									
1	Surface Casing Cement				13.0	1,632.0	2/25/2016	2/25/2016	No	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?		Vol Cement Ret (bbl)		Volume Lost (bbl)	
4		5		5		500.0		900.0		900.0		2/25/2016		No		9.0			
Recip?	Stroke (ft)	Recip Rate (...)	Rotat...	RPM (rpm)	Pipe Movement Note			MD Tagged...	Tag Method			Tag Wt (100...)	Prop...	Depth Plug...	Tag Cement Date	Drill Out Date	Drill Out Dia (...)		
No			No										No						

Cement Fluids

Fluid	Est Top (ftKB)	Est Btm (ftKB)	Pump Start Date	Pump End Date	Class	Amount (sacks)	Mix H2O Ratio (gal/sack)	Yield (ft ³ /sack)	Vol Pumped (bbl)	Excess (%)	Dens (lb/gal)
Lead	13.0	1,632.0	2/25/2016	2/25/2016	50/50 poz	750	5.00	1.36	181.6	70.0	15.00

Production Casing Cement, Casing, 2/29/2016 20:00

Type Casing	String Liner, 11,026.8ftKB	Start Date 2/29/2016	Cementing End Date 3/1/2016	Wellbore Original Hole	Job Drilling - original, 2/25/2016 06:30	Cementing Company Sanjel (USA) Inc	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg #	Description	Objective			Top Depth (ftKB)	Bottom Depth (ftKB)	Pump Start Date	Pump End Date	Top Plug?	Btm Plug?									
1	Production Casing Cement				13.0	11,033.0	2/29/2016	3/1/2016	No	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?		Vol Cement Ret (bbl)		Volume Lost (bbl)	
8		8		8		1,800.0		2,500.0		2,500.0		3/1/2016		No		1.0			
Recip?	Stroke (ft)	Recip Rate (...)	Rotat...	RPM (rpm)	Pipe Movement Note			MD Tagged...	Tag Method			Tag Wt (100...)	Prop...	Depth Plug...	Tag Cement Date	Drill Out Date	Drill Out Dia (...)		
No			No										No						

Cement Fluids

Fluid	Est Top (ftKB)	Est Btm (ftKB)	Pump Start Date	Pump End Date	Class	Amount (sacks)	Mix H2O Ratio (gal/sack)	Yield (ft ³ /sack)	Vol Pumped (bbl)	Excess (%)	Dens (lb/gal)
Lead	13.0	4,783.0	2/29/2016	3/1/2016	1:1:0 POZ TYPE III	835	10.88	1.81	257.0		12.50
Tail	4,783.0	11,033.0	2/29/2016	3/1/2016	1:2:0 POZ G	770	5.93	1.42	256.0		13.50

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