



Cement

Well Name: Bernhardt 6G-403

Cement

Surface Casing Cement, Casing, 2/26/2015 14:30

Type Casing	String Surface, 930.0ftKB	Start Date 2/26/2015	Cementing End Date 2/26/2015	Wellbore Original Hole	Job Drilling - original, 2/23/2015 06:00	Cementing Company Cementers Well Service Inc	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) 930.0		Pump Start Date 2/26/2015			Pump End Date 2/26/2015			Top Plug? No		Btm Plug? Yes										
Initial Pump Rate (bbl/min) 4			Final Pump Rate (bbl/min) 5		Avg Pump Rate (bbl/min) 5		Final Pump Pressure (psi) 900.0		Plug Bump Pressure (psi) 900.0		Pressure Held (psi) 400.0		Pressure Release Date 2/26/2015			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...		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	13.0	930.0	2/26/2015	2/26/2015	G	780	5.30	1.18	163.7	100.0	15.20

Intermediate Casing Cement, Casing, 3/3/2015 11:00

Type Casing	String Intermediate, 7,712.0ftKB	Start Date 3/3/2015	Cementing End Date 3/3/2015	Wellbore Original Hole	Job Drilling - original, 2/23/2015 06:00	Cementing Company Sanjel (USA) Inc	Cement Objective ISOLATION	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Intermediate Casing Cement					Objective ISOLATION		Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 7,712.0	Pump Start Date 3/3/2015			Pump End Date 3/3/2015		Top Plug? No	Btm Plug? Yes			
Initial Pump Rate (bbl/min) 5		Final Pump Rate (bbl/min) 2		Avg Pump Rate (bbl/min) 7		Final Pump Pressure (psi) 900.0		Plug Bump Pressure (psi) 1,500.0		Pressure Held (psi) 1,500.0		Pressure Release Date 3/3/2015		Full Return? No	Vol Cement Ret (bbl) 8.0		Volume Lost (bbl)		
Recip? No	Stroke (ft)	Recip Rate (...)		Rotat... No	RPM (rpm)	Pipe Movement Note			MD Tagged...	Tag Method			Tag Wt (100...	Prop...	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	5,512.0	3/3/2015		TYPE III	435	13.41	2.19	169.7	15.0	11.60
Tail	5,512.0	7,712.0		3/3/2015	G	275	5.93	1.42	69.5	15.0	14.60