



Cement

Well Name: Peschel 20G-332

Cement

Surface Casing Cement, Casing, 7/24/2015 11:30

Type Casing	String Surface, 927.5ftKB	Start Date 7/24/2015	Cementing End Date 7/24/2015	Wellbore Original Hole	Job Drilling - original, 7/23/2015 18:00	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) 928.0	Pump Start Date 7/24/2015			Pump End Date 7/24/2015		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) 400.0		Plug Bump Pressure (psi) 920.0		Pressure Held (psi) 500.0		Pressure Release Date			Full Return? Yes	Vol Cement Ret (bbl) 5.0		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	938.0	7/24/2015	7/24/2015	G	490	6.30	1.18	102.9		15.20

Intermediate Casing Cement, Casing, 7/28/2015 06:30

Type Casing	String Intermediate, 7,729.4ftKB	Start Date 7/28/2015	Cementing End Date 7/28/2015	Wellbore Original Hole	Job Drilling - original, 7/23/2015 18:00	Cementing Company Cementers Well Service Inc	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1	Description Intermediate Casing Cement				Objective			Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 7,740.0	Pump Start Date 7/28/2015		Pump End Date 7/28/2015		Top Plug? Yes	Btm Plug? No							
Initial Pump Rate (bbl/min) 5		Final Pump Rate (bbl/min) 6		Avg Pump Rate (bbl/min) 5		Final Pump Pressure (psi) 1,900.0		Plug Bump Pressure (psi) 2,500.0		Pressure Held (psi) 0.0		Pressure Release Date 7/28/2015		Full Return? No	Vol Cement Ret (bbl) 37.0		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	7,740.0	7/28/2015	7/28/2015	TYPE III	515	10.88	1.95	179.0		12.00
Tail	7,740.0	7,740.0	7/28/2015	7/28/2015	50/50 poz	320	5.93	1.42	81.0		14.60

Production Casing Cement, Casing, 7/31/2015 22:00

Type Casing	String Liner, 11,661.0ftKB	Start Date 7/31/2015	Cementing End Date 8/1/2015	Wellbore Original Hole	Job Drilling - original, 7/23/2015 18:00	Cementing Company Cementers Well Service Inc	Cement Objective	Eval Method Returns to Surface
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Cement Stages

Stg # 1 Description Production Casing Cement					Objective			Top Depth (ftKB) 6,582.0		Bottom Depth (ftKB) 11,661.0		Pump Start Date 7/31/2015			Pump End Date 8/1/2015			Top Plug? Yes		Btm Plug? No		
Initial Pump Rate (bbl/min) 5			Final Pump Rate (bbl/min) 6		Avg Pump Rate (bbl/min) 6		Final Pump Pressure (psi) 500.0		Plug Bump Pressure (psi) 1,140.0		Pressure Held (psi) 3.0		Pressure Release Date 7/31/2015			Full Return? Yes		Vol Cement Ret (bbl) 5.0			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	6,582.0	11,661.0	7/31/2015	8/1/2015	G	470	6.19	1.25	105.0		13.50