



# Cement

Well Name: Peschel 20i-312

## Cement

### Surface Casing Cement, Casing, 9/7/2015 10:00

Type Casing	String Surface, 949.0ftKB	Start Date 9/7/2015	Cementing End Date 9/7/2015	Wellbore Original Hole	Job Drilling - original, 9/6/2015 19:00	Cementing Company Cementers Well Service Inc	Cement Objective ISOLATE WATER	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) 949.0		Pump Start Date 9/7/2015			Pump End Date 9/7/2015		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) 400.0		Plug Bump Pressure (psi) 900.0		Pressure Held (psi) 900.0		Pressure Release Date 9/7/2015			Full Return? Yes		Vol Cement Ret (bbl) 9.0		Volume Lost (bbl)					
Recip? No	Stroke (ft)	Recip Rate (...)		Rotat... No	RPM (rpm)		Pipe Movement Note				MD Tagged (...) 910.0		Tag Method Drill Bit		Tag Wt (100... 5		Prop... No	Depth Plug... 949.0		Tag Cement Date 9/8/2015		Drill Out Date 9/8/2015		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	949.2	9/7/2015	9/7/2015	NEAT	500	5.30	1.18	106.1	100.0	15.20

### Intermediate Casing Cement, Casing, 9/10/2015 23:45

Type Casing	String Intermediate, 7,507.0ftKB	Start Date 9/10/2015	Cementing End Date 9/11/2015	Wellbore Original Hole	Job Drilling - original, 9/6/2015 19:00	Cementing Company Sanjel (USA) 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) 7,507.0	Pump Start Date 9/10/2015		Pump End Date 9/11/2015		Top Plug? No	Btm Plug? No		
Initial Pump Rate (bbl/min) 6		Final Pump Rate (bbl/min) 6		Avg Pump Rate (bbl/min) 6		Final Pump Pressure (psi) 1,100.0		Plug Bump Pressure (psi) 1,700.0		Pressure Held (psi) 1,500.0		Pressure Release Date 9/11/2015		Full Return? No	Vol Cement Ret (bbl) 30.0	Volume Lost (bbl)	
Recip? No	Stroke (ft)	Recip Rate (...)	Rotat... No	RPM (rpm)	Pipe Movement Note			MD Tagged (...) 7,458.0		Tag Method Drill Bit		Tag Wt (100...) 5	Prop... No	Depth Plug... 7,517.0	Tag Cement Date 9/11/2015	Drill Out Date 9/11/2015	Drill Out Dia (...) 6 1/8

### 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	4,278.0	9/10/2015	9/11/2015	1:1:0 POZ TYPE 111	455	10.88	1.95	158.0		12.00
Tail	4,278.0	7,507.0	9/11/2015	9/11/2015	1:1:2 POZ G	350	5.93	1.42	88.5		14.60