



Cement

ORIGINAL HOLE**Well Name: HEATH PC GK02-07****Dump Bail**

API 05-123-32616	Quarter Quarter SWNE	Regulatory Field GROVER	County/Parish WELD	State/Province COLORADO	Well Configuration Type VERTICAL
Ground Elevation (ft) 5,202.00	Casing Flange Elevation (ft)	KB - GL / MSL (ftKB) 13	KB-Casing Flange Distance (ft)	Spud Date 1/13/2011 7:45:00 PM	Rig Release Date 1/18/2011 12:30:00 PM

Cement Details

Description Dump Bail	Cementing Start Date 7/21/2011 00:00	Cementing End Date 7/21/2011 00:00	Wellbore Name ORIGINAL HOLE
Technical Result			
Comment 2 SXS OF CMT			

Cement Stages**Stage # 1**

Description Dump Bail		Objective		Top (ftKB) 7,520.0		Bottom (ftKB) 7,530.0		Full Return?		Cmnt Rtrn (bbl)		Top Plug?		Bottom Plug?			
Q (start) (bbl/min)		Q (end) (bbl/min)		Q (avg) (bbl/min)		P (final) (psi)		P (bump) (psi)		Recip?		Stroke (ft)		Rotated?		Mix/Pump Cmt VI (...)	
Depth tagged (ftKB)				Tag Method				Depth Plug Drilled Out To (ftKB)						Drill Out Diameter (in)			

Cement Fluids & Additives**Fluid**

Fluid Type	Fluid Description	Estimated Top (ftKB)	Estimated Bottom (ftKB)	Amount (sacks) 2	Class	Volume Pumped (bbl)
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hrs)	12 hr comp strg (psi)

Additives

Additive	Type	Concentration	Conc Unit label
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