

Well Name: MARICK 1061-6-41
Surface Casing Cement

API 05-123-30239	Quarter Quarter NESE	Regulatory Field UNNAMED	County/Parish WELD	State/Province COLORADO	Well Configuration Type VERTICAL
Ground Elevation (ft) 5,074.00	Casing Flange Elevation (ft)	KB - GL / MSL (ftKB) 11	KB-Casing Flange Distance (ft)	Spud Date 3/6/2010 7:15:00 PM	Rig Release Date 3/12/2010 7:00:00 PM

Cement Details

Description Surface Casing Cement	Cementing Start Date 3/7/2010 09:15	Cementing End Date 3/7/2010 10:30	Wellbore Name ORIGINAL HOLE
Technical Result			
Comment 42 BBLS CEMENT TO SURFACE			

Cement Stages

Stage # 1											
Description		Objective		Top (ftKB)		Bottom (ftKB)		Full Return?	Cmnt Rtrn (bbl)	Top Plug?	Bottom Plug?
Surface Casing Cement				11.0		1,061.4		Yes	42.0	No	Yes
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 (...)
5	5	5		250.0		370.0	No			No	
Depth tagged (ftKB)			Tag Method			Depth Plug Drilled Out To (ftKB)			Drill Out Diameter (in)		
Comment											

Cement Fluids & Additives

Fluid						
Fluid Type Spacer	Fluid Description	Estimated Top (ftKB)	Estimated Bottom (ftKB)	Amount (sacks)	Class	Volume Pumped (bbl) 10.0
Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 8.40	Plastic Viscosity (cp)	Thickening Time (hrs)	12 hr comp strg (psi)

Additives			
Additive FRESH WATER	Type	Concentration	Conc Unit label

Fluid						
Fluid Type Lead	Fluid Description	Estimated Top (ftKB) 11.0	Estimated Bottom (ftKB)	Amount (sacks) 265	Class LIGHT	Volume Pumped (bbl) 80.0
Yield (ft³/sack) 1.69	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 13.10	Plastic Viscosity (cp)	Thickening Time (hrs)	12 hr comp strg (psi)

Additives			
Additive LIGHT	Type	Concentration	Conc Unit label
Additive POLYFLAKE	Type	Concentration	Conc Unit label
Additive CaCl	Type Accelerator	Concentration	Conc Unit label %

Fluid						
Fluid Type Tail	Fluid Description	Estimated Top (ftKB)	Estimated Bottom (ftKB) 1,061.4	Amount (sacks) 100	Class TYPE II	Volume Pumped (bbl) 21.0
Yield (ft³/sack) 1.18	Mix H2O Ratio (gal/sack)	Free Water (%)	Density (lb/gal) 15.80	Plastic Viscosity (cp)	Thickening Time (hrs)	12 hr comp strg (psi)

Additives			
Additive POLYFLAKE	Type	Concentration	Conc Unit label
Additive TYPE II	Type	Concentration	Conc Unit label
Additive CaCl	Type Accelerator	Concentration 2.0	Conc Unit label %

Fluid						
Fluid Type Displacement	Fluid Description	Estimated Top (ftKB)	Estimated Bottom (ftKB)	Amount (sacks)	Class	Volume Pumped (bbl) 66.0
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