



GCC of America
130 Rampart Way, Suite 205
Denver, CO 80230
Sales (303) 739-5900

Plant: Rapid City
501 N. Saint Onge Street
Rapid City, South Dakota
Contact: Victor Gonzalez
Phone: (605) 721-7100

Cement Type: Class G Oilwell
Date: 3/12/10
Production period ending: 2/28/2010
Silo # 1 (56955)

STANDARD REQUIREMENTS API (SPEC 10)

CHEMICAL			PHYSICAL		
Item	Spec. Limit	Test Result	Item	Spec. Limit	Test Result
MgO (%)	6.0 max.	1.2	Blaine fineness (m2/kg)		330
SO ₃ (%)	3.0 max.	2.2	Autoclave expansion (%)	0.80 max.	A
Ignition loss (%)	3.0 max.	0.8	Free water, mL	3.5 max.	1.2
Insoluble residue (%)	0.75 max.	0.23			
Equivalent alkalies (%)	B	0.54	Compressive strength (MPa)		
Potential Compounds (%)			8 hr., 100deg. F., Min MPa (psi)	2.1 (300)	5.5 (803)
C ₃ S	48-58	56	8 hr., 140deg. F., Min MPa (psi)	10.3 (1500)	12.6 (1832)
C ₃ A	8 max	3.6			
			Schedule 5		
			thickening time. (minutes)	90-120	100

A Not applicable.

B Limit not specified by purchaser. Test result provided for information only.

HAVING NO CONTROL OVER THE USE OF IT'S CEMENTS, GCC OF AMERICA DOES NOT
GUARANTEE FINISHED WORK.
GCC IS NOT RESPONSIBLE FOR ANY ADDITIVES NOT STATED IN THE CERTIFICATE OF COMPLIANCE.

Victor Gonzalez

I hereby certify that
the data furnished
herein are true and
correct to the best
of my knowledge and
belief.

Signature: _____

Victor Gonzalez, QC Manager