

COG



PERMIAN REGION LAB Cement Lab Report

Phone (432) 530-2667 Fax (432) 530-0279

30-025-39263

Test Number: 529436086
Report Number:

Test Date: 4/10/2009

WELL INFORMATION

Operator: COG
API #:
Well Name: GC Fed #25
Slurry Type: Lead
Blend Type: Field
Comments:

County: ~~Eddy~~ Lea
State: NM
Requested By: Jake Garcia
TVD: 7000 MD: 7000
District: Artesia

TEST DATA AND SCHEDULE

Time To Temp (min): 37.00
Initial Press (psi): 500
Final Press (psi): 3780
BHST (deg F): 110
BHCT (deg F): 105

Mud Density (lb/gal): 9
Mix Water Density (lb/gal): 8.34
Mix Water Type: Tap Water
Surf Temp (deg F): 80
Job Type: Long String

Comments: FL52A was added to the field blend.

SLURRY AND TEST RESULTS

Vendor: Cemex

Slurry: 35:65:6 Class 'C' + 0.20% FL-52A + 0.20% SMS + 5.00% Salt (4.481 lb/sk) + 5.00 lb/sk LCM-1 + 0.125 lb/sk Cello Flake

Density: 12.5 lb/gal

Yield: 2.051 CuFt/sk

Mix Water: 10.75 gal/sk (103%)

Total Mix Liquid: 10.75 gal/sk

Fluid Loss: cc/30 min

Pump Time (50 Bc):

Pump Time (70 Bc): 3:44

Pump Time (100 Bc):

Free Water (ml): (Tested at 90 Degrees)

Compressive Strength

Temp Time Strength Type

Rheology (PL=Power Law, BP= Bingham Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	50	35	31	25	15	12	0.21	0.096	17.4	20.0	PL

Comments:

The above data is supplied solely for informational purposes, and BJ Services Company makes no guarantees or warranties, either expressed or implied, with respect to the accuracy or use of these data and interpretations. All products warranties and guarantee shall be governed by the standard contract terms at the time of the sale.

FOR RECORD ONLY



PERMIAN REGION LAB
Cement Lab Report

Phone (432) 530-2667 Fax (432) 530-0279

Test Number: 529436090
Report Number:

Test Date: 4/11/2009

WELL INFORMATION

Operator: COG
API #:
Well Name: GC Fed #25
Slurry Type: Tail
Blend Type: Field
Comments:

County: ~~Eddy~~ Lea
State: NM
Requested By: Jake Garcia
TVD: 7000 MD: 7000
District: Artesia

TEST DATA AND SCHEDULE

Time To Temp (min): 37.00
Initial Press (psi): 500
Final Press (psi): 3780
BHST (deg F): 110
BHCT (deg F): 105

Mud Density (lb/gal): 9
Mix Water Density (lb/gal): 8.34
Mix Water Type: Tap Water
Surf Temp (deg F): 80
Job Type: Long String

Comments: SMS was added to the field blend.

SLURRY AND TEST RESULTS

Vendor: Cemex

Slurry: 50:50:2 Class 'C' + 1.00% FL-25 + 1.00% BA-58 + 0.25% SMS + 5.00% Salt (2.481 lb/sk) + 3.00 lb/sk LCM-1 + 0.125 lb/sk Cello Flake

Density: 14 lb/gal
Yield: 1.363 CuFt/sk
Mix Water: 5.95 gal/sk (59.08%)
Total Mix Liquid: 5.95 gal/sk
Fluid Loss: cc/30 min

Pump Time (50 Bc):
Pump Time (70 Bc): 3:15
Pump Time (100 Bc):

Free Water (ml): (Tested at 90 Degrees)

Compressive Strength

Temp Time Strength Type

Rheology (PL=Power Law, BP= Bingham Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	220	150	125	99	58	55	0.23	0.352	65.5	91.8	BP

Comments:

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