



Rocky Mountain Region Laboratory
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***Rocky Mountain Region Laboratory
CEMENTING REPORT***

Prepared for:
***Great Western Oil & Gas Co., LLC
Manenti #20-34
Weld County, Colorado
Lab Report #C11-019-11
2 Slurry Longstring
API# 05-123-34628-0000***

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899 Baseline Place
Brighton, CO 80601
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ANALYST: Jeffery Johnson

BAKER HUGHES TECHNICAL REPRESENTATIVE

Submitted by: Michael Salyers

November 7, 2011



CEMENTING LABORATORY REPORT **Lab Report #C11-019-11**

COMPANY:	Great Western Oil & Gas Co., LLC	DATE:	November 7, 2011
WELL NAME:	Manenti #20-34	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	2 Slurry Longstring
API #	05-123-34628-0000	TOC(md):	
DEPTH MD(ft):	7,700 ft	BHST(°F):	265 °F
CASING SIZE("):	4 1/2 in	BHCT(°F):	187 °F
TUBING SIZE("):		BHSqT(°F):	222 °F
HOLE SIZE("):	7 7/8 in	TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	Lead Slurry: Premium Lite Cement + 4% Bentonite + 8 lbs/sk CSE-2 + 0.6% SMS
#2	Tail Slurry: Class G Cement: POZ (50:50) + 20% S-8 + 0.4% FL-52 + 0.3% CD-32 + 0.1% SMS
#3	

SLURRY PROPERTIES		#1	#2	#3
Density : ppg		11.00	14.60	
Yield :cu.ft./sk.		3.22	1.38	
Mixing Water: gal/sk.		19.86	5.90	
Water Type:		Fresh	Fresh	
Testing Temperature :		187 °F	187 °F	
Thickening Time: hrs:mins.		5:19	3:34	
Free Water: mls.				
Fluid Loss:ml/30min				
Compressive Strength:				
	hrs.			
	hrs.			
Rheologies	RPM			
	300			
	200			
	100			
	6			
	3			
	600			
	PV			
	YP			
Gel Strength : #/100sq.ft.	10 sec.			
	10 min.			

Slurry #1 - (11.00#) was turned off on three occassions in an effort to get the slurry to pump off.

REMARKS :

COMMENTS : The above data is supplied solely for informational purposes and BJ makes no guarantees or warranties, either express or implied, with respect to the accuracy or use of this data. All product warranties and guarantees shall be governed by the standard contract terms at the time of sale.



Baker Hughes Rocky Mountain Region Laboratory Report

Report #: C11-019-11

Customer/Well Information

Company: Great Western Oil & Gas Co., Depth MD: 7,700 ft Date: November 7, 2011
 Well Name: Manenti #20-34 Depth TVD: 7,700 ft Prepared for:
 API #: 05-123-34628-0000 TOC(md): Submitted by: Michael Salyers
 Location: Weld County, Colorado Casing Size: 4 1/2 in Prepared by: Jeffery Johnson
 District: Brighton Tubing Size: Water Type: Fresh
 Type Job: 2 Slurry Longstring Hole size: 7 7/8 in

BHST: 265 °F BHCT: 187 °F BHSqT: 222 °F

Slurry Design Data

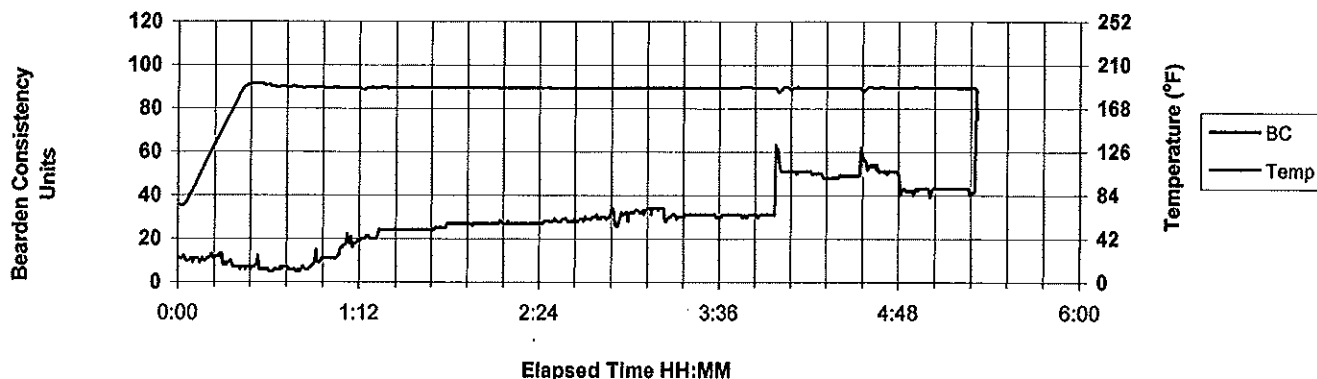
Lead Slurry: Premium Lite Cement + 4% Bentonite + 8 lbs/sk CSE-2 + 0.6% SMS

Slurry Properties

Density: 11.0 ppg Fluid Loss: Test Temp: 187 °F
 Yield: 3.22 cf/sack Free Water: Time to 70bc: 5:19 hrs:min
 Mix Water: 19.86 gps Total Fluid: Time to 100 bc:

Rheology:	600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	PV	YP	Gel Strength	
									10 sec	10 min

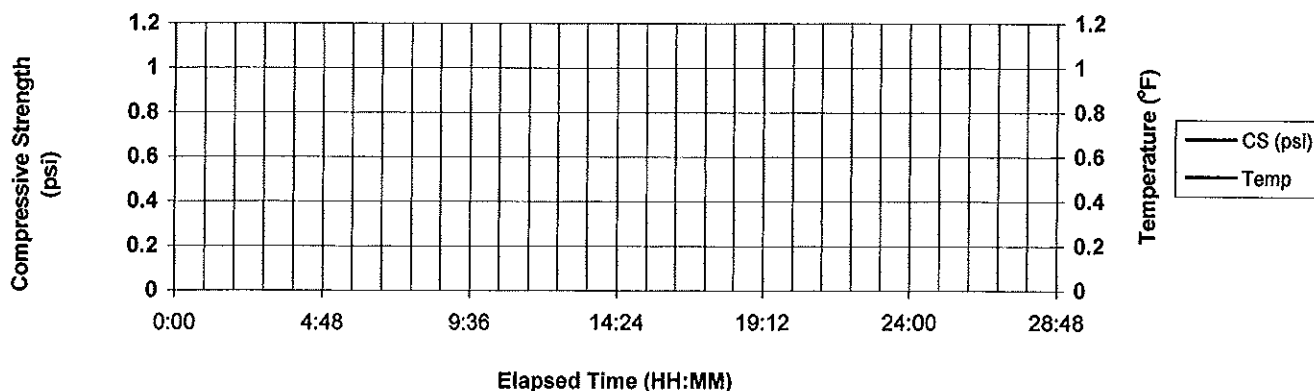
Consistometer Recording of Bearden Consistency:



Compressive Strength Data:

Temperature	12 hours	24 hours	36 hours	48 hours
25 psi				

Ultrasonic Cement Analyzer Data Chart:



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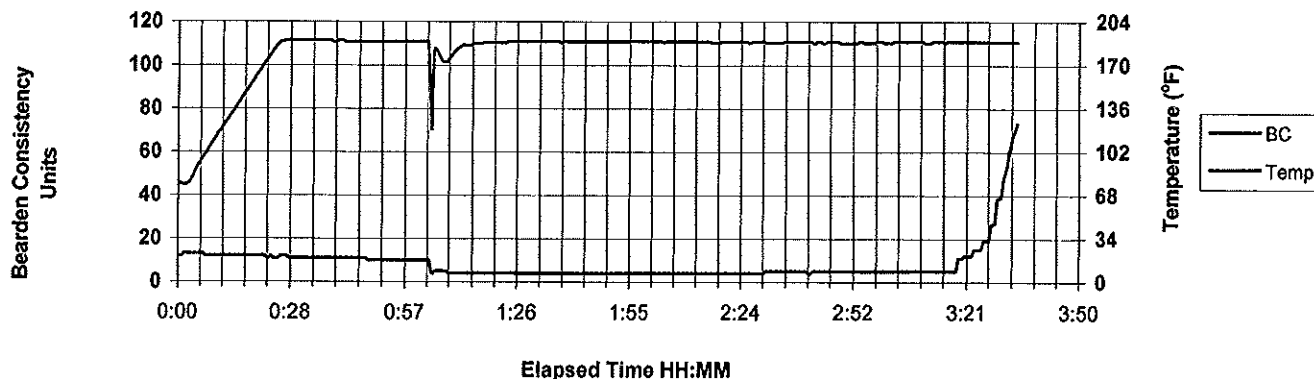
Tail Slurry: Class G Cement: POZ (50:50) + 20% S-8 + 0.4% FL-52 + 0.3% CD-32 + 0.1% SMS

Slurry Properties

Density: 14.6 ppg Fluid Loss: Test Temp: 187 °F
 Yield: 1.38 cf/sack Free Water: Time to 70bc: 3:34 hrs:min
 Mix Water: 5.90 gps Total Fluid: Time to 100 bc:

Rheology:	600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	PV	YP	Gel Strength	
									10 sec	10 min

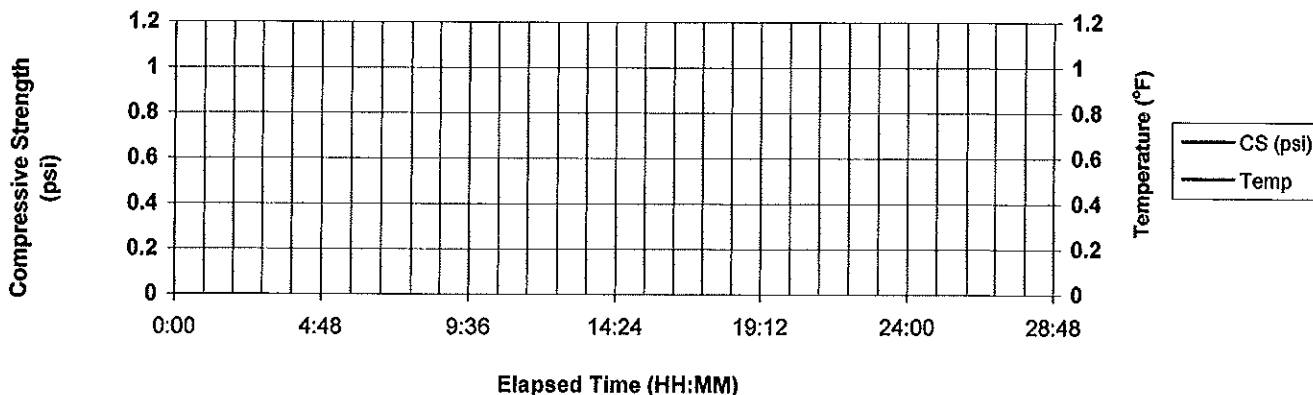
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