



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  
Phone (303) 659-7347***

***ANALYST: Jeffery Johnson***

***BAKER HUGHES TECHNICAL REPRESENTATIVE***

***Submitted by: Michael Salyers***

***November 7, 2011***



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

<b>COMPANY:</b>	Great Western Oil & Gas Co., LLC	<b>DATE:</b>	November 7, 2011
<b>WELL NAME:</b>	Manenti #20-34	<b>LOCATION:</b>	Weld County, Colorado
<b>DISTRICT:</b>	Brighton	<b>TYPE JOB:</b>	2 Slurry Longstring
<b>API #</b>	05-123-34628-0000	<b>TOC(md):</b>	
<b>DEPTH MD(ft):</b>	7,700 ft	<b>BHST(°F):</b>	265 °F
<b>CASING SIZE("):</b>	4 1/2 in	<b>BHCT(°F):</b>	187 °F
<b>TUBING SIZE("):</b>		<b>BHSqT(°F):</b>	222 °F
<b>HOLE SIZE("):</b>	7 7/8 in	<b>TOL (°F):</b>	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.			
<b>Rheologies</b>	<b>RPM</b>			
	300			
	200			
	100			
	6			
	3			
	600			
	PV			
	YP			
Gel Strength : #/100sq.ft.	10 sec.			
	10 min.			

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

**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

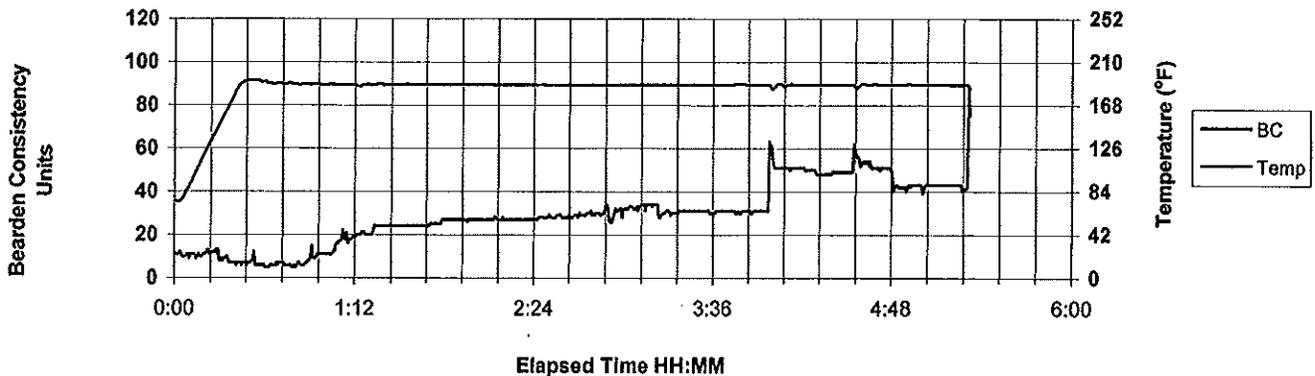
Lead Slurry: Premium Lite Cement + 4% Bentonite + 8 lbs/sk CSE-2 + 0.6% SMS

## 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

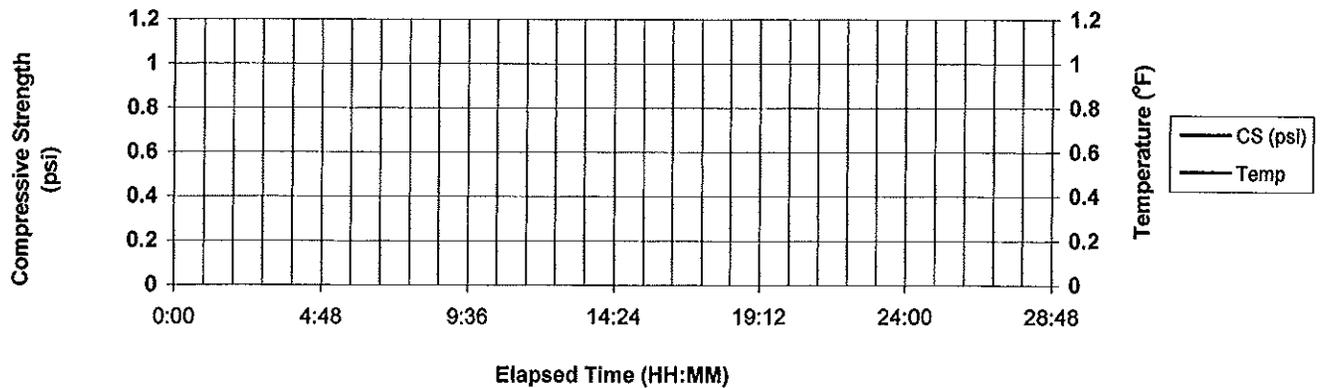
## Consistometer Recording of Bearden Consistency:



## Compressive Strength Data:

Temperature	12 hours	24 hours	36 hours	48 hours
25 psi				

## Ultrasonic Cement Analyzer Data Chart:



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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

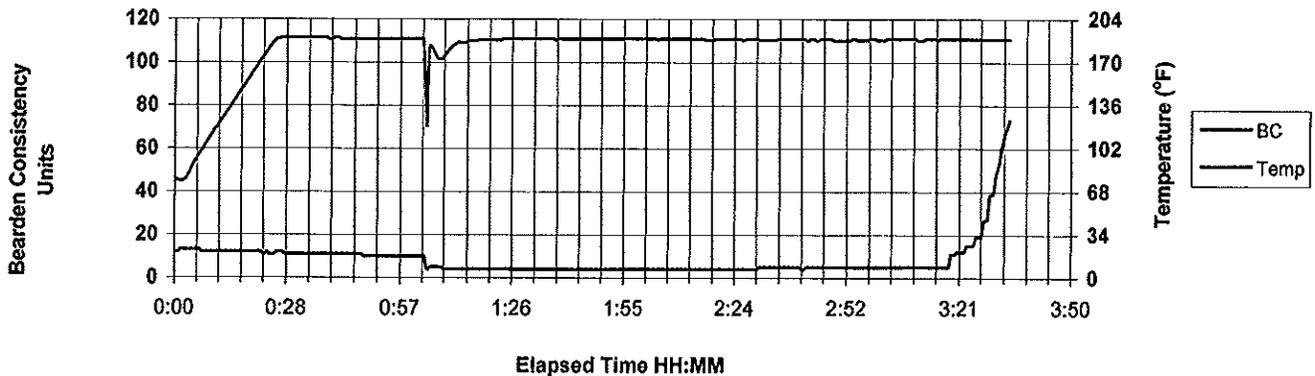
Tail Slurry: Class G Cement: POZ (50:50) + 20% S-8 + 0.4% FL-52 + 0.3% CD-32 + 0.1% SMS

## 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

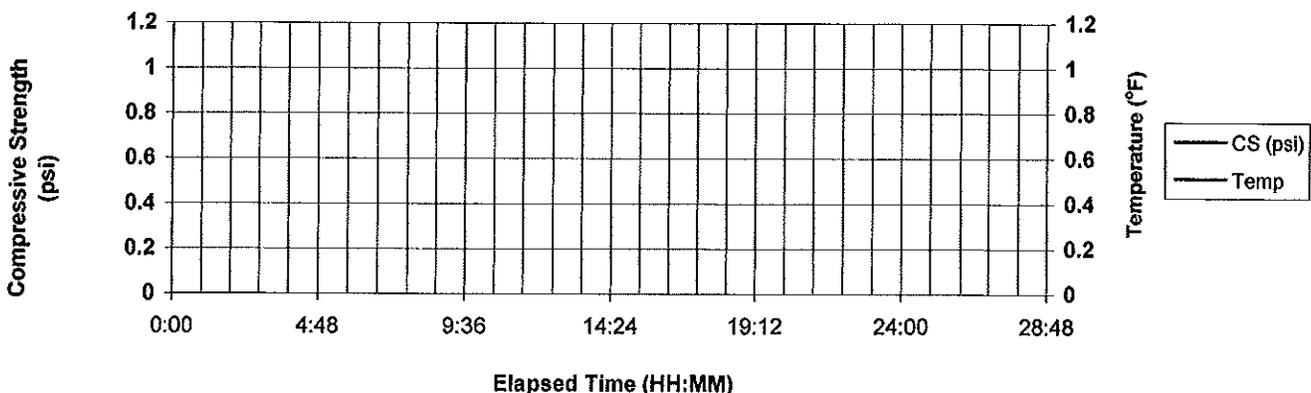
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