



Rocky Mountain Area Laboratory
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***Rocky Mountain Area Laboratory
CEMENTING REPORT***

Prepared for:
***Bayswater Exploration & Production
Casa Loma #3-25
Weld County, Colorado
Lab Report #C02-083-13
Longstring
API# 05-123-36412-0000***

***Rocky Mountain Area Laboratory
899 Baseline Place
Brighton, CO 80601
Phone (303) 659-7347***

ANALYST: Tom Smith

BAKER HUGHES TECHNICAL REPRESENTATIVE

Submitted by: Blake David

February 14, 2013



CEMENTING LABORATORY REPORT

Lab Report #C02-083-13

COMPANY :	Bayswater Exploration & Production	DATE:	February 14, 2013
WELL NAME:	Casa Loma #3-25	LOCATION:	Weld County, Colorado
DISTRICT:	Brighton	TYPE JOB:	Longstring
API #	05-123-36412-0000	TOC(md):	
DEPTH MD(ft):	7,931 ft	BHST(°F):	262 °F
CASING SIZE("):	4 1/2 in	BHCT(°F):	186 °F
TUBING SIZE("):		BHSqT(°F):	220 °F
HOLE SIZE("):	7 7/8 in	TOL (°F):	Static Circ

SLURRY DESIGN DATA

#1	1st Lead Slurry: Premium Lite Cement + 8 pps CSE-2 + 4% Bentonite + 0.6% SMS
#2	2nd Lead Slurry: Premium Lite Cement + 3% Bentonite + 0.4% FL-52 + 0.1% R-3
#3	Tail Slurry: Class G:FA(50:50) + 0.4% FL-52 + 0.1% CD-32 + 0.1% SMS

SLURRY PROPERTIES		#1	#2	#3
Density : ppg		11.00	12.50	14.60
Yield :cu.ft./sk.		3.22	1.89	1.16
Mixing Water: gal/sk.		19.86	10.37	5.01
Water Type:		Fresh	Fresh	Fresh
Testing Temperature :		186 °F	187 °F	187 °F
Thickening Time: hrs:mins.		6:44	2:30	3:21
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.			

REMARKS :

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Baker Hughes Rocky Mountain Area Laboratory Report

Report #: C02-083-13

Customer/Well Information

Company:	Bayswater Exploration & Prod	Depth MD:	7,931 ft	Date:	February 14, 2013
Well Name:	Casa Loma #3-25	Depth TVD:	7,931 ft	Prepared for:	
API #:	05-123-36412-0000	TOC(md):		Submitted by:	Blake David
Location:	Weld County, Colorado	Casing Size:	4 1/2 in	Prepared by:	Tom Smith
District:	Brighton	Tubing Size:		Water Type:	Fresh
Type Job:	Longstring	Hole size:	7 7/8 in		

BHST: 262 °F BHCT: 186 °F BHSqT: 220 °F

Slurry Design Data

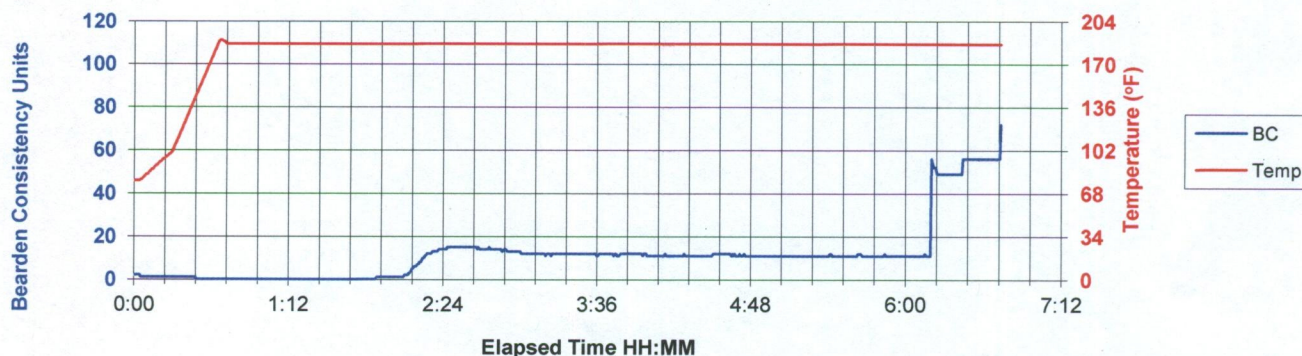
1st Lead Slurry: Premium Lite Cement + 8 pps CSE-2 + 4% Bentonite + 0.6% SMS

Slurry Properties

Density:	11.0 ppg	Fluid Loss:		Test Temp:	186 °F
Yield:	3.22 cf/sack	Free Water:		Time to 70bc:	6:44 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

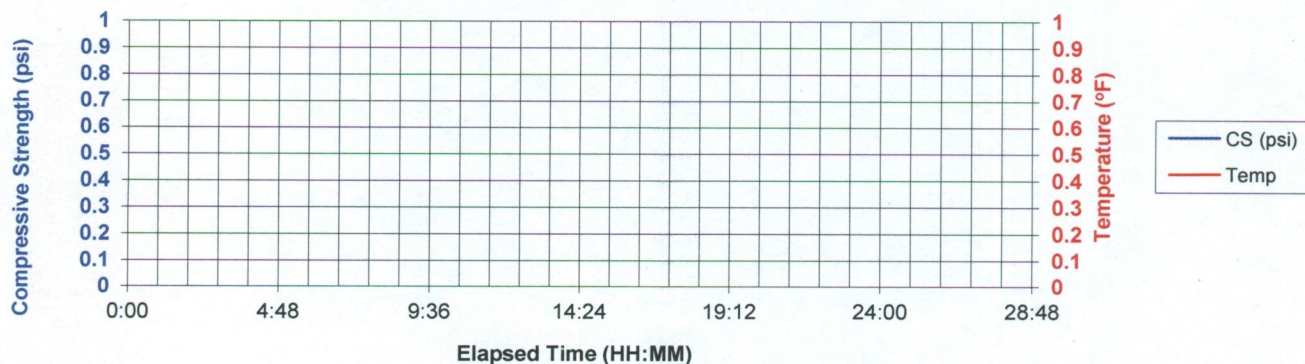
Consistometer Recording of Bearden Consistency:



Compressive Strength Data:

Temperature	12 hours	24 hours	36 hours	48 hours
25 psi				

Ultrasonic Cement Analyzer Data Chart:



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Baker Hughes Rocky Mountain Area Laboratory Report

Report #: C02-083-13

Customer/Well Information

Company: Bayswater Exploration & Prod Depth MD: 7,931 ft Date: February 14, 2013
Well Name: Casa Loma #3-25 Depth TVD: 7,931 ft Prepared for:
API #: 05-123-36412-0000 TOC(md): Submitted by: Blake David
Location: Weld County, Colorado Casing Size: 4 1/2 in Prepared by: Tom Smith
District: Brighton Tubing Size: Water Type: Fresh
Type Job: Longstring Hole size: 7 7/8 in

BHST: 262 °F BHCT: 186 °F BHSqT: 220 °F

Slurry Design Data

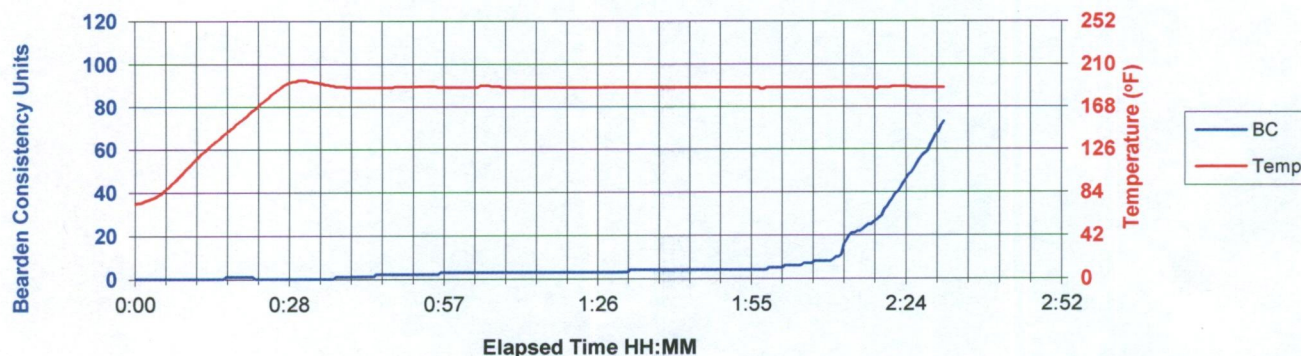
2nd Lead Slurry: Premium Lite Cement + 3% Bentonite + 0.4% FL-52 + 0.1% R-3

Slurry Properties

Density: 12.5 ppg Fluid Loss: Test Temp: 187 °F
Yield: 1.89 cf/sack Free Water: Time to 70bc: 2:30 hrs:min
Mix Water: 10.37 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

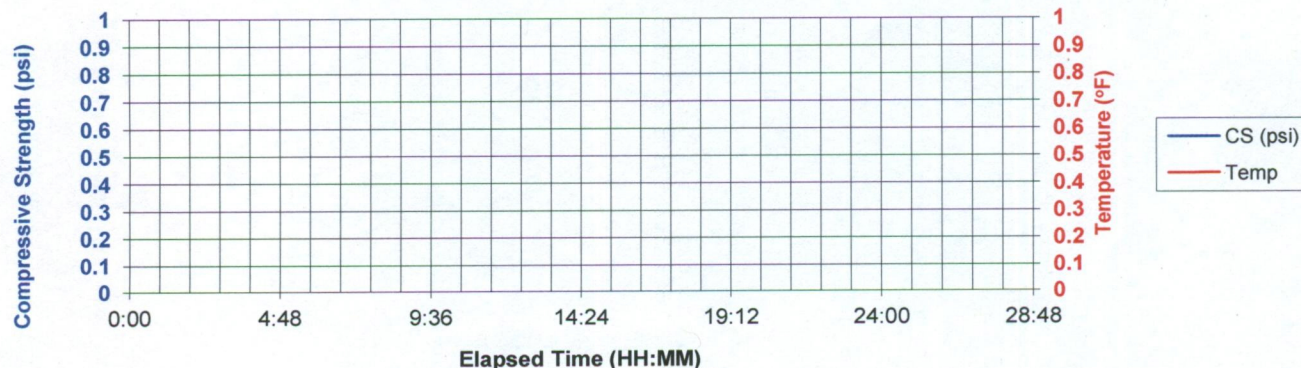
Consistometer Recording of Bearden Consistency:



Compressive Strength Data:

Temperature	12 hours	24 hours	36 hours	48 hours
25 psi				

Ultrasonic Cement Analyzer Data Chart:



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Baker Hughes Rocky Mountain Area Laboratory Report

Report #: C02-083-13

Customer/Well Information

Company: Bayswater Exploration & Prod
Well Name: Casa Loma #3-25
API #: 05-123-36412-0000
Location: Weld County, Colorado
District: Brighton
Type Job: Longstring

Depth MD: 7,931 ft
Depth TVD: 7,931 ft
TOC(md):
Casing Size: 4 1/2 in
Tubing Size: 7 7/8 in
Hole size: 7 7/8 in

Date: February 14, 2013
Prepared for:
Submitted by: Blake David
Prepared by: Tom Smith
Water Type: Fresh

BHST: 262 °F BHCT: 186 °F BHSqT: 220 °F

Slurry Design Data

Tail Slurry: Class G:FA(50:50) + 0.4% FL-52 + 0.1% CD-32 + 0.1% SMS

Slurry Properties

Density: 14.6 ppg
Yield: 1.16 cf/sack
Mix Water: 5.01 gps

Fluid Loss:
Free Water:
Total Fluid:

Test Temp: 187 °F
Time to 70bc: 3:21 hrs:min
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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CEMENTING LABORATORY REPORT

Longstring