

Report Printed on: JAN-24-15 23:17:46

# CEMENT JOB REPORT



## Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL  
 Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)  
 None

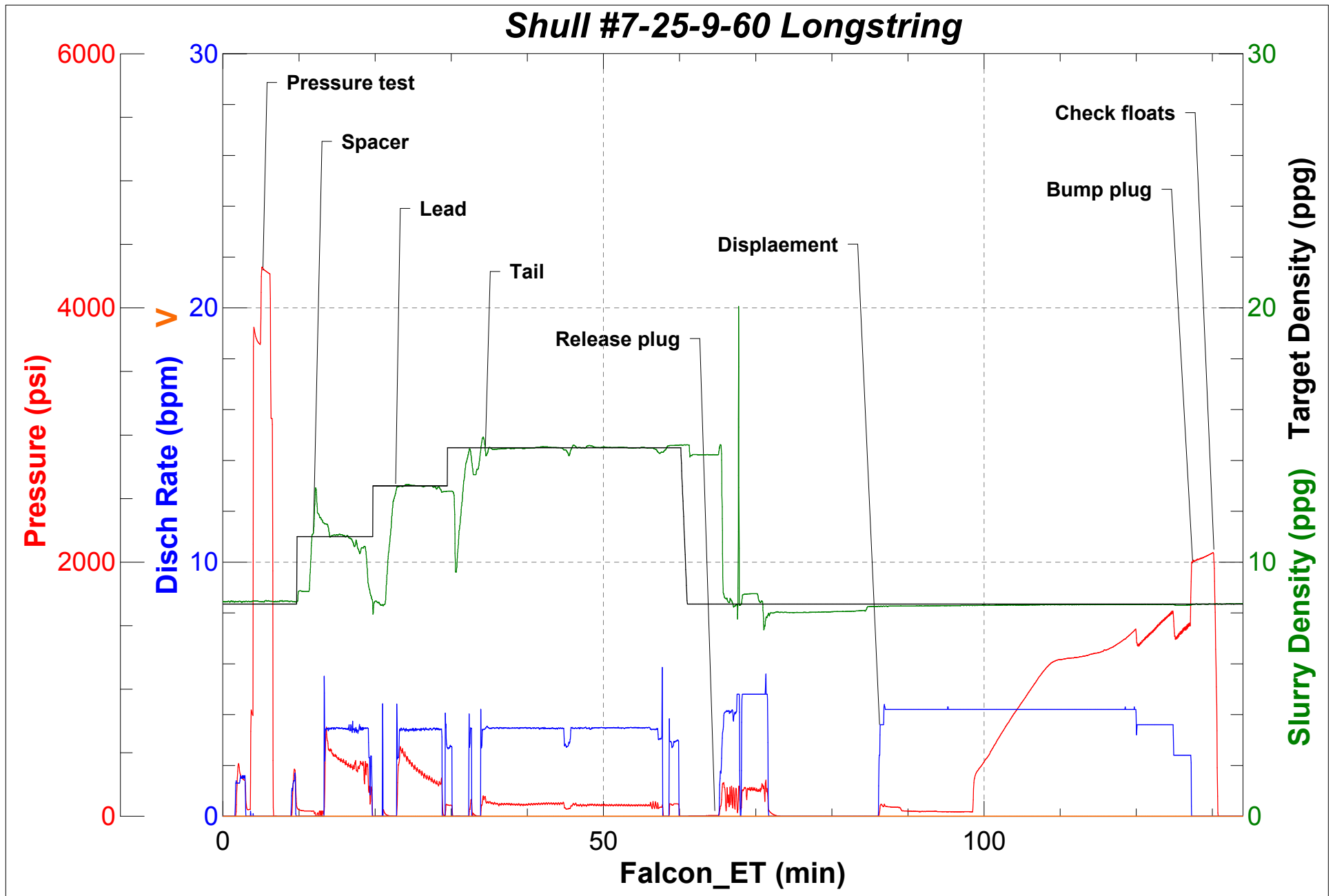
Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
 None

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)  
 None

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES 4295 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
13:29	0	0	0	0	N/A	Leave location	
15:08	0	0	0	0	N/A	Arrive on location (80 Miles) rig running casing	
17:40	0	0	0	0	N/A	Spot trucks	
17:51	0	0	0	0	N/A	Pre rig up safety meeting	
19:00	0	0	0	0	N/A	Done rigging up except for head an manifold, waiting for rig to finish circulating Mud with the X-Cide 160 bbls	
19:24	0	0	0	0	N/A	Rig done circulating, Pre job safety meeting	
19:41	0	0	0	0	N/A	Rig up head and manifold	
20:28	317	0	1.3	2	H2O	Load pumps and lines	
20:30	4295	0	0	0	H2O	Pressure test pumps and lines	
20:36	514	0	3.4	20	BAR	Pump weighted spacer with seal bond	
20:48	502	0	3.4	23	CMT	Batch, weigh, and pump lead slurry @13 ppg	
20:55	105	0	3.5	89	CMT	Batch, and pump tail slurry @14.5 ppg	
21:30	0	0	0	0	N/A	Release plug and wash up	
21:42	0	0	0	0	N/A	Break down one of our wash up lines so rig can send us displacement fluid	
21:52	1471	0	4.2	140	H2O	Displacement	
22:26	1621	0	3.6	20	H2O	Drop rate	
22:31	1571	0	2.4	6	H2O	Drop rate	
22:34	2001	0	0	0	H2O	Bump plug	
22:37	0	0	0	0	H2O	Check floats (floats held)	
22:41	0	0	0	0	N/A	Pre rig down safety meeting	
23:45	0	0	0	0	N/A	Leave location	
BUMPED PLUG <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	PSI TO BUMP PLUG 1571	TEST FLOAT EQUIP. <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 0	TOTAL BBL. PUMPED 300	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input type="checkbox"/> N	Service Supervisor Signature:



## Shull #7-25-9-60 Longstring





Rocky Mountain Area Laboratory  
899 Baseline Place  
Brighton, Colo.  
Phone (303) 659-7347  
Fax (303) 659-7401

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

*Prepared for:*  
***Carrizo Oil & Gas Inc.***  
***Shull #7-25-9-60***  
***Sec. 25, 9N-60W***  
***Proposal #:1001175395E***  
***Lab Report # C01-096-15***  
***API #: 5123404950000***  
***Rig # Xtreme Coil #19***  
***Production Casing FB***

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

***ANALYST: Micheal Curl***

***BAKER HUGHES TECHNICAL REPRESENTATIVE  
Evan K Nolting***

***Submitted by: Matthew J Vahsholtz  
Reviewed by: Nicole Pacheco-Coulter  
January 24, 2015***



**CEMENTING LABORATORY REPORT**  
**Lab Report # C01-096-15**  
**Proposal #1001175395E**

<b>COMPANY :</b>	Carrizo Oil & Gas Inc.	<b>DATE:</b>	January 24, 2015
<b>WELL NAME:</b>	Shull #7-25-9-60	<b>LOCATION:</b>	Sec. 25, 9N-60W
<b>DISTRICT:</b>	Brighton	<b>TYPE JOB:</b>	Production Casing FB
<b>API #:</b>	5123404950000	<b>RIG #:</b>	Xtreme Coil #19
<b>DEPTH MD(ft):</b>	10796	<b>TOC(md):</b>	
<b>CASING SIZE("/#):</b>	4 1/2 in	<b>BHST(°F):</b>	181 °F
<b>TUBING SIZE("/#):</b>		<b>BHCT(°F):</b>	162 °F
<b>HOLE SIZE("):</b>	6 1/8 in	<b>BHSqT(°F):</b>	156 °F
		<b>TOL (°F):</b>	Static      Circ

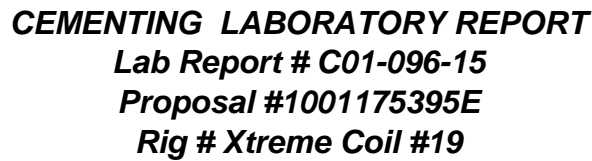
**SLURRY DESIGN DATA**

<b>#1</b>	Lead: POZ (50:50) Class G Cement + 0.4% FL-52 + 0.2% SMS + 10 pps CSE-2 + 0.3% FL-66 + 0.6% ASA-301 + 0.3% BA-59 + 2% Bentonite II + 0.01 gps FP-6L
<b>#2</b>	Tail: POZ (50:50) Class G Cement + 40 pps ASCA-1 + 0.3% SMS + 10 pps CSE-2 + 0.5% FL-66 + 0.1% R-3 + 2% Bentonite II + 0.2% BA-10A + 0.01 gps FP-6L
<b>#3</b>	

SLURRY PROPERTIES		#1	#2	#3
Density : ppg		13.00	14.50	
Yield :cu.ft./sk.		1.76	1.87	
Mixing Water: gal/sk.		8.87	7.96	
Water Type:		Fresh	Fresh	
Testing Temperature :		160 °F	160 °F	
Thickening Time: hrs:mins.		7:24	2:35	
Free Water: mls.				
Fluid Loss:ml/30min				
Compressive Strength:				
	hrs.			
	hrs.			
Rheologies	RPM			
	300			
	200			
	100			
	60			
	30			
	6			
	3			
	600			
	PV			
	YP			
Gel Strength : #/100sq.ft.	10 sec.			
	10 min.			

<b>REMARKS :</b>	
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**COMMENTS :** The above data is supplied solely for informational purposes and Baker Hughes 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.



<b>COMPANY :</b>	<b>Carrizo Oil &amp; Gas Inc.</b>	<b>DATE:</b>	<b>January 24, 2015</b>
<b>WELL NAME:</b>	<b>Shull #7-25-9-60</b>	<b>LOCATION:</b>	<b>Sec. 25, 9N-60W</b>
<b>DISTRICT:</b>	<b>Brighton</b>	<b>TYPE JOB:</b>	<b>Production Casing FB</b>

[illegible]

Water Analysis			
Temp:	°F	Viscosity:	cP
pH:		Color:	
Specific Gravity:		Odor:	
S.G Corrected:		Turbidity	
Resistivity:	Ω-m	Filtrates:	

Cation:	mg/L	me/l	ppm
Sodium (calc.)			
Calcium			
Magnesium:			
Potassium			
Iron			

Anions:	mg/L	me/l	ppm
Chlorides			
Sulfates			
Hydroxide			
Carbonate			
Bicarbonate			

Summary	mg/L	me/l	ppm
Total Dissolved Solids (calc.)			
Total Hardness as CaCO3			

## Mud / Spacer Compatibility

Mud:  
Spacer:

	VISCOMETER DIAL READING					
	600	300	200	100	6	3
100% Mud						
100% Spacer						
75% Mud - 25% Spacer						
50% Mud - 50% Spacer						
25% Mud - 75% Spacer						

Comments:



**Baker Hughes**  
**Rocky Mountain Area Laboratory Report**  
**Lab Report # C01-096-15**

**Customer/Well Information**

Company: Carrizo Oil & Gas Inc.	Depth MD: 10,796 ft	Date: January 24, 2015
Well Name: Shull #7-25-9-60	Depth TVD: 10,796 ft	BHI Tech Rep: Evan K Nolting
API #: 05-123-40495-0000	TOC(md):	Started by: Micheal
Location: Sec. 25, 9N-60W	Casing Size: 4.5 in, 11.6#	Finished by: Nicole Pacheco-Coulter
District: Brighton	Tubing Size:	Water Type: Fresh
Type Job: Production Casing FB	Hole Size: 6 1/8 in	Rig #: Xtreme Coil #19

BHST: 181 °F    BHCT: 162 °F    BHSqT: 156 °F

**Slurry Design Data**

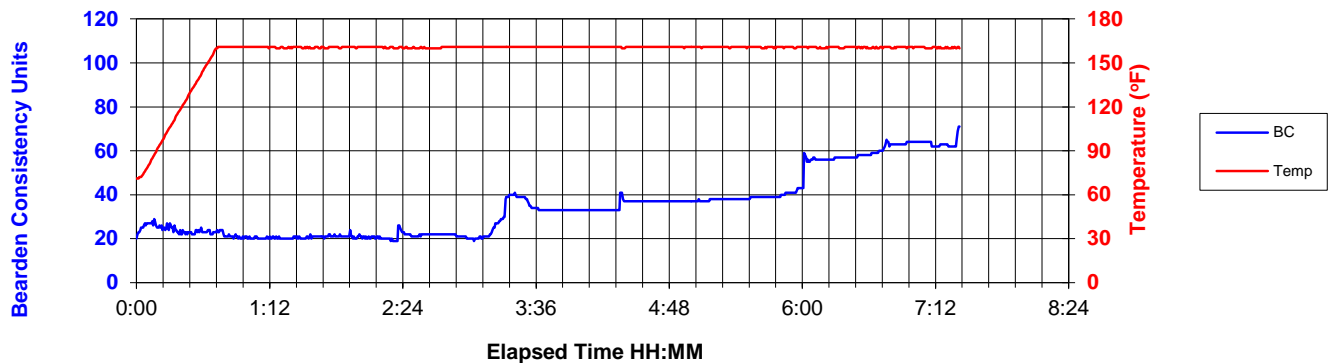
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**Slurry Properties**

Density: 13.0 ppg	Fluid Loss:	Test Temp: 160 °F
Yield: 1.76 cf/sack	Free Water:	Time to 70bc: 7:24 hrs:min
Mix Water: 8.87 gps	Total Fluid:	Time to 100 bc:

Rheology:	600 rpm	300 rpm	200 rpm	100 rpm	60 rpm	30 rpm	6 rpm	3 rpm	PV	YP	Gel Strength	
											10 sec	10 min

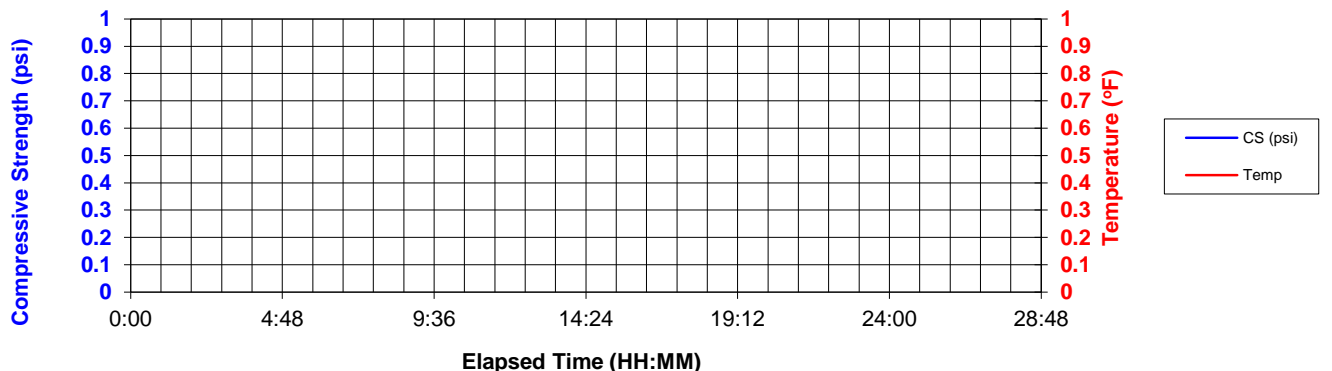
**Consistometer Recording of Bearden Consistency:**



**Compressive Strength Data:**

Temp.		12 hours	24 hours	36 hours	48 hours
	25 psi				

**Ultrasonic Cement Analyzer Data Chart:**



**Notice:** This report is presented in good faith based upon present day technology and information provided; but because of variable conditions and other information which must be relied upon, Baker Hughes makes no warranty, express or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that Baker Hughes shall not be liable for any loss or damage, whether due to negligence or otherwise, arising out of or in connection with such data, calculations, or opinions.



**Baker Hughes**  
**Rocky Mountain Area Laboratory Report**  
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District: Brighton	Tubing Size:	Water Type: Fresh
Type Job: Production Casing FB	Hole Size: 6 1/8 in	Rig #: Xtreme Coil #19

BHST: 181 °F    BHCT: 162 °F    BHSqT: 156 °F

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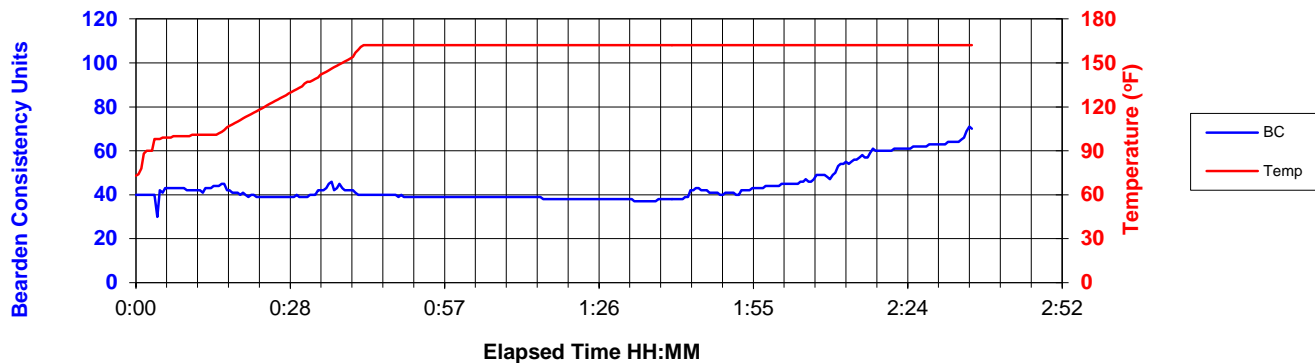
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**Slurry Properties**

Density: 14.5 ppg	Fluid Loss:	Test Temp: 160 °F
Yield: 1.87 cf/sack	Free Water:	Time to 70bc: 2:35 hrs:min
Mix Water: 7.96 gps	Total Fluid:	Time to 100 bc:

Rheology:	600 rpm	300 rpm	200 rpm	100 rpm	60 rpm	30 rpm	6 rpm	3 rpm	PV	YP	Gel Strength	
											10 sec	10 min

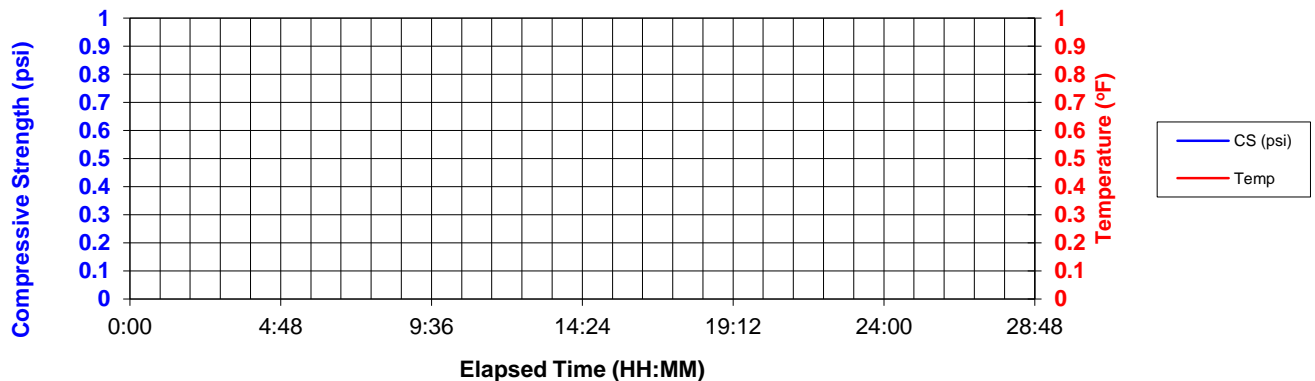
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FIELD RECEIPT NO. 10011134474

CUSTOMER CARRIZO OIL & GAS INC XML					CREDIT APPROVAL NO.		PURCHASE ORDER NO.		CUSTOMER NUMBER 0040003338 - 0040139823-1		INVOICE NUMBER		
MAIL INVOICE TO					STREET OR BOX NUMBER 500 DALLAS STREET, SUITE 2499			CITY Houston		STATE Texas		ZIP CODE 77063	
DATE WORK COMPLETED		MO. 01	DAY 24	YEAR 2015	BHI REPRESENTATIVE ERIC S DEWIT		WELL API NO: 05123404950000		WELL TYPE : New Well				
DISTRICT PP, BRIGHTON					JOB DEPTH (ft) 10,781			WELL CLASS : Oil					
WELL NAME AND NUMBER SHULL #7-25-9-60					TD WELL DEPTH (ft) 10,796			GAS USED ON JOB : No Gas					
WELL LOCATION :		LEGAL DESCRIPTION 25-9N-60W			COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Long String				
PRODUCT CODE		DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT		
100021		Class G Cement				sacks	176	31.800	5,596.80	70%	1,679.04		
100112		Calcium Chloride				lbs	300	1.290	387.00	70%	116.10		
100120		Bentonite				lbs	128	0.530	67.84	70%	20.35		
100275		Sodium Metasilicate				lbs	13	4.100	53.30	70%	15.99		
100283		R-3				lbs	24	3.840	92.16	70%	27.65		
100316		Barite, Bulk				lbs	3000	0.630	1,890.00	70%	567.00		
100317		Poz (Fly Ash)				sacks	176	14.200	2,499.20	70%	749.76		
100404		Sodium Chloride				lbs	100	0.520	52.00	70%	15.60		
121100		Cement Plug, Rubber, Bottom 4-1/2 in				ea	1	362.250	362.25	70%	108.68		
411313		ASCA-1				lbs	11040	3.470	38,308.80	70%	11,492.64		
420145		Bentonite - Sacked				lbs	464	0.530	245.92	70%	73.78		
428086		BA-59				lbs	20	36.000	720.00	70%	216.00		
488015		FL-52				lbs	26	26.900	699.40	70%	209.82		
488269		FL-66				lbs	136	72.500	9,860.00	70%	2,958.00		
488353		CSE-2				lbs	3520	1.700	5,984.00	70%	1,795.20		
499632		Granulated Sugar				lbs	50	3.840	192.00	70%	57.60		
499695		BA-10A				lbs	47	20.500	963.50	70%	289.05		
ARRIVE LOCATION :		MO. 01	DAY 24	YEAR 2015	TIME 15:08	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.				SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.			
CUSTOMER REP. Bob Mcness													
SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS													
					CUSTOMER AUTHORIZED AGENT				X				
									X				



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MAIL INVOICE TO		STREET OR BOX NUMBER 500 DALLAS STREET, SUITE 2499				CITY Houston		STATE Texas		ZIP CODE 77063		
DATE WORK COMPLETED		MO. 01	DAY 24	YEAR 2015	BHI REPRESENTATIVE ERIC S DEWIT		WELL API NO: 05123404950000		WELL TYPE : New Well			
DISTRICT PP, BRIGHTON					JOB DEPTH (ft) 10,781		WELL CLASS : Oil					
WELL NAME AND NUMBER SHULL #7-25-9-60					TD WELL DEPTH (ft) 10,796		GAS USED ON JOB : No Gas					
WELL LOCATION :		LEGAL DESCRIPTION 25-9N-60W			COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Long String			
PRODUCT CODE		DESCRIPTION				UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
499705		ASA-301				lbs	39	20.250	789.75	70%	236.93	
L398463-00		SealBond Spacer, w/ 45 lb bag				bbls	20	278.000	5,560.00	45%	3,058.00	
		SUB-TOTAL FOR Product Material							74,323.92	68.13%	23,687.19	
A152		Personnel Per Diem Chrg - Cement Svc				ea	1	210.000	210.00	0%	210.00	
M100		Bulk Materials Blending Charge				cu ft	646	5.450	3,520.70	70%	1,056.21	
R798		Automatic Density System				job	1	1,990.000	1,990.00	70%	597.00	
		SUB-TOTAL FOR Service Charges							5,720.70	67.43%	1,863.21	
F073A		Cement Pumping, 10001 - 11000 ft				8hrs	1	16,600.000	16,600.00	70%	4,980.00	
F088		Cement Pumping, Additional hrs				hrs	3	900.000	2,700.00	0%	2,700.00	
F090		Fuel per pump charge - cement				pump/hr	4	70.250	281.00	0%	281.00	
J050		Cement Head				job	1	830.000	830.00	70%	249.00	
J390		Mileage, Heavy Vehicle				miles	160	11.850	1,896.00	70%	568.80	
J391		Mileage, Auto, Pick-Up or Treating Van				miles	160	6.700	1,072.00	70%	321.60	
		SUB-TOTAL FOR Equipment							23,379.00	61.07%	9,100.40	
ARRIVE LOCATION :		MO. 01	DAY 24	YEAR 2015	TIME 15:08	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.				SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.		
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WELL NAME AND NUMBER SHULL #7-25-9-60					TD WELL DEPTH (ft) 10,796		GAS USED ON JOB : No Gas						
WELL LOCATION :		LEGAL DESCRIPTION 25-9N-60W			COUNTY/PARISH Weld		STATE Colorado		JOB TYPE CODE : Long String				
PRODUCT CODE		DESCRIPTION					UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT	
J401		Bulk Delivery, Dry Products					ton-mi	1951	3.940	7,686.94	70%	2,306.08	
		SUB-TOTAL FOR Freight/Delivery Charges								7,686.94	70.00%	2,306.08	
		FIELD ESTIMATE								111,110.56	66.74%	36,956.88	
ARRIVE LOCATION :		MO. 01	DAY 24	YEAR 2015	TIME 15:08	SERVICE ORDER: I AUTHORIZE WORK TO BEGIN PER SERVICE INSTRUCTIONS IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE LAST PAGE OF THIS FORM AND REPRESENT THAT I HAVE AUTHORITY TO ACCEPT AND SIGN THIS ORDER.					SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.		
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