

# CEMENT JOB REPORT



<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML			<b>DATE</b> 22-MAR-15		<b>F.R. #</b> 10011145990			<b>SERV. SUPV.</b> BRYAN J BARBARIGOS						
<b>LEASE &amp; WELL NAME</b> BRINGELSON RANCH #16-20-9-58 - API 051234115				<b>LOCATION</b> 20-9N-58W				<b>COUNTY-PARISH-BLOCK</b> Weld Colorado						
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> Xtreme Coil #19				<b>TYPE OF JOB</b> Surface							
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>			<b>MECHANICAL BARRIERS</b>		<b>MD</b>	<b>TVD</b>	<b>HANGER TYPES</b>		<b>MD</b>	<b>TVD</b>		
Cement Plug, Rubber, Top 9-5/8 in		Float Collar, Al Flap, 9-5/8 - 8rd			none				none					
		Float Shoe 9-5/8 - 8rd												
		Centralizer, with Pins, 9-5/8 in												
<b>MATERIALS FURNISHED BY BJ</b>				<b>LAB REPORT NO.</b>				<b>PHYSICAL SLURRY PROPERTIES</b>						
								<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>
Fresh Water + 2 lbs Red Dye									8.34				15	
Type III Cmt + adds								146	14.5	1.41	6.82	02:37	36.58	23.70
Premium Lite Cmt + adds								291	13	1.81	9.46	00:49	94.02	65.54
Fresh Water									8.34				109.01	
<b>Available Mix Water</b> 350 <b>Bbl.</b>				<b>Available Displ. Fluid</b> 600 <b>Bbl.</b>				<b>TOTAL</b>				254.61	89.24	
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>						<b>COLLAR DEPTHS</b>					
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>ID</b>	<b>OD</b>	<b>WGT.</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>		
12.25	40	1457	8.921	9.625	36	CSG	1437	1437	J-55	1437	1392	1		
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>				<b>PERF. DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>			
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>BRAND &amp; TYPE</b>		<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT.</b>
15.	16	65	CSG	70	70	NO PACKER		0			9.625	8RND	FRESH WATER	8.4
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>			
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>		<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>			
107	BBLS	Fresh Water		8.34	348	0	0	0	0	7968	2500	RIG TANK		
<b>Circulation Prior to Job</b>														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>				Circulation Time: 2				Circulation Rate: 5 BPM						
Mud Density In: 8.5 LBS/GAL				Mud Density Out: 8.5 LBS/GAL				PV & YP Mud In: 0		PV & YP Mud Out: 0				
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>				Units:				Solids Present at End of Circulation:		NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>				
<b>Displacement And Mud Removal</b>														
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>				Amount Bled Back After Job: .5 BBLS										
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL				Method Used to Verify Returns: VISUAL										
Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES										
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROICATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE														
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES				Quantity: 15				Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID						
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD														
<b>Plugs</b>														
Number of Attempts by BJ: 0				Competition: 0				Wiper Balls Used: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES					Quantity: 0	
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES										
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Top of Plug: 0 FT				Bottom of Plug: 0 FT						
<b>Squeezes (Update Original Treatment Report for Primary Job)</b>														
BLOCK SQUEEZE <input type="checkbox"/>				SHOE SQUEEZE <input type="checkbox"/>				TOP OF LINER SQUEEZE <input type="checkbox"/>				PLANNED <input type="checkbox"/>	UNPLANNED <input type="checkbox"/>	
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				PSI Applied: 0		Fluid Weight: 0 LBS/GAL				
<b>Casing Test (Update Original Treatment Report for Primary Job)</b>														
Casing Test Pressure: 1500 PSI				With 8.5 LBS/GAL Mud				Time Held: 00 Hours 15 Minutes						
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:</b>														

# 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	

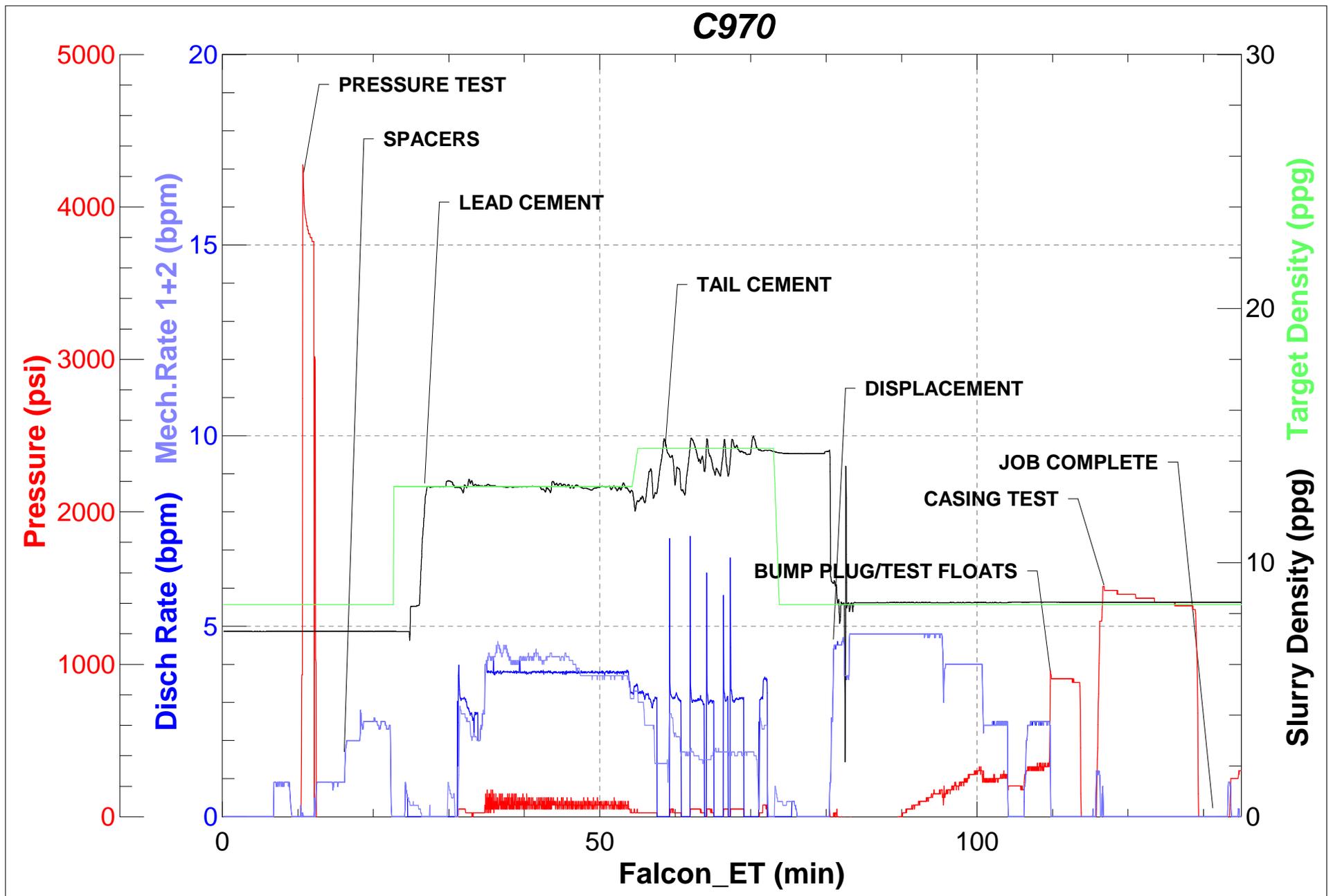
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)  
NONE

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 3500 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
07:30	0	0	0	0	N/A	LEAVE YARD	
09:45	0	0	0	0	N/A	ARRIVE ON LOCATION 95 MILES	
11:30	0	0	0	0	N/A	SPOT TRUCKS	
11:45	0	0	0	0	N/A	PRE-RIG UP MEETING	
12:45	0	0	0	0	N/A	PRE-JOB MEETING	
13:15	0	0	.9	2	H2O	LOAD LINES	
13:18	3900	0	.8	.5	H2O	PRESSURE TEST	
13:23	0	0	2	15	H2O	SPACER	
13:42	167	0	4	89	CMT	LEAD 291SX @13 BATCH/WEIGH/PUMP	
14:00	120	0	2.8	31	CMT	TAIL CEMENT	
14:28	270	0	4	107	H2O	DISPLACEMENT	
14:59	906	0	0	0	H2O	BUMP PLUG/ TEST FLOATS DID NOT HOLD	
15:10	1510	0	2	1	H2O	CASING TEST	
15:20	0	0	0	0	H2O	TEST FLOATS DID NOT HOLD PUMPED 300# ON CASING SHUT IN LEAVE HEAD	
16:00	0	0	0	0	N/A	JOB COMPLETE	

BUMPED PLUG	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	PSI TO BUMP PLUG	348	TEST FLOAT EQUIP.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED	38	TOTAL BBL. PUMPED	250	PSI LEFT ON CSG	300	SPOT TOP OUT CEMENT	Y <input type="checkbox"/> N	<u>Service Supervisor Signature:</u>
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## CEMENTING LABORATORY REPORT

Lab Report # C03-104-15

Proposal #1001177710A

<b>COMPANY :</b> Carrizo Oil & Gas Inc		<b>DATE:</b> March 21, 2015	
<b>WELL NAME:</b> Bringelson Ranch #16-20-9-58		<b>LOCATION:</b> Sec.20, 9N-58W	
<b>DISTRICT:</b> Brighton		<b>TYPE JOB:</b> Surface Field Blend	
<b>API #:</b> 05-123-41152-0000	<b>RIG #:</b> Xtreme Coil #19	<b>TOC(md):</b>	
<b>DEPTH MD/TVD(ft):</b> 1450		<b>BHST(°F):</b> 109 °F	
<b>CASING SIZE("/#):</b> 9 5/8 in	36. #	<b>BHCT(°F):</b> 85 °F	
<b>TUBING SIZE("/#):</b>		<b>BHSqT(°F):</b> 94 °F	
<b>HOLE SIZE("):</b> 12 1/4 in		<b>TOL (°F):</b>	Static      Circ

### SLURRY DESIGN DATA

#1	Lead Slurry FB: Premium Lite Cement + 6% Bentonite II +3% CaCl <sub>2</sub> + 3% NaCl <sub>2</sub> + 0.25 pps Cello Flake + 0.04% Static Free + 0.05 gal/100 sack FP-6L
#2	Tail Slurry FB: Type III Cement + 1.5% CaCl <sub>2</sub> + 0.25 pps Cello Flake + 0.04 pps Static Free + 0.5 gal/100sack FP-6L
#3	

SLURRY PROPERTIES	#1	#2	#3
Density : ppg	13.00	14.50	
Yield :cu.ft./sk.	1.81	1.41	
Mixing Water: gal/sk.	9.46	6.82	
Water Type:	Fresh	Fresh	
Testing Temperature :	82 °F	82 °F	
Thickening Time: hrs:mins.	3:32	1:42	
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.		

**REMARKS :**

**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.



FIELD RECEIPT NO. 10011145990

<b>CUSTOMER</b> CARRIZO OIL & GAS INC XML				<b>CREDIT APPROVAL NO.</b>	<b>PURCHASE ORDER NO.</b>	<b>CUSTOMER NUMBER</b> 0040003338 - 0040139823-1	<b>INVOICE NUMBER</b>
<b>MAIL INVOICE TO :</b>		<b>STREET OR BOX NUMBER</b> 500 DALLAS STREET, SUITE 2499		<b>CITY</b> Houston		<b>STATE</b> Texas	<b>ZIP CODE</b> 77063
<b>DATE WORK COMPLETED</b>	<b>MO.</b> 03	<b>DAY</b> 22	<b>YEAR</b> 2015	<b>BHI REPRESENTATIVE</b> BRYAN J BARBARIGOS	<b>WELL API NO:</b> 05123411520000	<b>WELL TYPE :</b> New Well	
<b>DISTRICT</b> PP, BRIGHTON				<b>JOB DEPTH(ft)</b> 1,437		<b>WELL CLASS :</b> Oil	
<b>WELL NAME AND NUMBER</b> BRINGELSON RANCH #16-20-9-58				<b>TD WELL DEPTH(ft)</b> 1,457		<b>GAS USED ON JOB :</b> No Gas	
<b>WELL LOCATION :</b>		<b>LEGAL DESCRIPTION</b> 20-9N-58W		<b>COUNTY/PARISH</b> Weld	<b>STATE</b> Colorado	<b>JOB TYPE CODE :</b> Surface	

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
100112	Calcium Chloride	lbs	150	1.290	193.50	70%	58.05
100112	Calcium Chloride	lbs	966	1.290	1,246.14	73%	336.46
100295	Cello Flake	lbs	110	5.100	561.00	73%	151.47
100404	Sodium Chloride	lbs	50	0.520	26.00	70%	7.80
100404	Sodium Chloride	lbs	689	0.520	358.28	73%	96.74
398224	Premium Lite Cement	sacks	291	27.650	8,046.15	73%	2,172.46
488019	FP-6L	gals	3	104.250	312.75	73%	84.44
488449	Bentonite II	lbs	1519	0.440	668.36	73%	180.46
499632	Granulated Sugar	lbs	100	3.840	384.00	73%	103.68
499680	Static Free	lbs	17	40.700	691.90	73%	186.81
499703	Type III Cement	sacks	246	31.700	7,798.20	73%	2,105.51
SUB-TOTAL FOR Product Material					20,286.28	72.97%	5,483.88

<b>ARRIVE LOCATION :</b>	<b>MO.</b> 03	<b>DAY</b> 22	<b>YEAR</b> 2015	<b>TIME</b> 09:45	<b>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.</b>	<b>SERVICE RECEIPT: I CERTIFY THAT THE MATERIALS AND SERVICES LISTED WERE RECEIVED AND ALL SERVICES PERFORMED IN A WORKMANLIKE MANNER.</b>	
<b>CUSTOMER REP.</b> JEFF MAYER							<b>CUSTOMER AUTHORIZED AGENT</b> X
<b>SEE LAST PAGE FOR GENERAL TERMS AND CONDITIONS</b>							<b>BHI APPROVED</b> X
_____ <b>CUSTOMER AUTHORIZED AGENT</b>							



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<b>DISTRICT</b> PP, BRIGHTON					<b>JOB DEPTH(ft)</b> 1,437		<b>WELL CLASS :</b> Oil			
<b>WELL NAME AND NUMBER</b> BRINGELSON RANCH #16-20-9-58					<b>TD WELL DEPTH(ft)</b> 1,457		<b>GAS USED ON JOB :</b> No Gas			
<b>WELL LOCATION :</b> 20-9N-58W			<b>LEGAL DESCRIPTION</b> Weld		<b>COUNTY/PARISH</b>	<b>STATE</b> Colorado	<b>JOB TYPE CODE :</b> Surface			
<b>PRODUCT CODE</b>	<b>DESCRIPTION</b>				<b>UNIT OF MEASURE</b>	<b>QUANTITY</b>	<b>LIST PRICE UNIT</b>	<b>GROSS AMOUNT</b>	<b>% DISC.</b>	<b>NET AMOUNT</b>
A152	Personnel Per Diem Chrg - Cement Svc				ea	1	210.000	210.00	0%	210.00
M100	Bulk Materials Blending Charge				cu ft	607	5.450	3,308.15	73%	893.20
R798	Automatic Density System				job	1	1,990.000	1,990.00	73%	537.30
	SUB-TOTAL FOR Service Charges							5,508.15	70.22%	1,640.50
F055A	Cement Pumping, 1001 - 2000 ft				4hrs	1	4,875.000	4,875.00	73%	1,316.25
F088	Cement Pumping, Additional hrs				hrs	1	900.000	900.00	28%	648.00
F090	Fuel per pump charge - cement				pump/hr	5	70.250	351.25	0%	351.25
J050	Cement Head				job	1	830.000	830.00	73%	224.10
J225	Data Acquisition, Cement, Standard				job	1	2,130.000	2,130.00	73%	575.10
J390	Mileage, Heavy Vehicle				miles	190	11.850	2,251.50	73%	607.91
J391	Mileage, Auto, Pick-Up or Treating Van				miles	190	6.700	1,273.00	73%	343.71
	SUB-TOTAL FOR Equipment							12,610.75	67.76%	4,066.32
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PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE UNIT	GROSS AMOUNT	% DISC.	NET AMOUNT
J401	Bulk Delivery, Dry Products	ton-mi	2472	3.940	9,739.68	73%	2,629.71
J402	Bulk Delivery, Standby Charge	hrs	1	226.500	226.50	28%	163.08
	SUB-TOTAL FOR Freight/Delivery Charges				9,966.18	71.98%	2,792.79
	FIELD ESTIMATE				48,371.36	71.09%	13,983.49

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