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3-RIVERS
DRILLING & BLASTING

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Customer		Seismograph MiniMate Plus		Conditions	
Company Name	Bronco Mine	**Unit Number**	N\A	**Wind Direction**	North East
Job Name/Location	Emery	**Date Calibrated**	N\A	**Wind Conditions**	0-5
Blaster in Charge	Steve Gurney	**Distance From Shot**	N/A	**Weather**	Clear
Bulk Truck Operator	N\A	**Peak Particle Velocity**	N/A	**Type of Rock**	Sandstone
Date of Shot	03/17/17	**Peak Sound Pressure**	N/A	**Temperature**	60
Blast Time	1:30 PM				
Shot Number	14				

Loading Information

	Area 1	Area 2	Area 3	Area 4	
Number of Holes	45.00				
Decks Per Hole	1.00				
Hole Diameter	3.00				
Stemming	5.50				
Burden					
Spacing	8.00				
Avg Hole Dpth	14.00				**Totals**
Total BCY's	0.00	0.00	0.00	0.00	0.00
Drill Footage	630.00	0.00	0.00	0.00	630.00
Trench Footage					0.00

Explosives

Primers - (Each)	lbs each	Number Used	Date Code	Detonators and Caps	Number Used	Date Code
Primacord 4Y 18 Gr	**0.0036**	**250.00**	**07NO16G1**			
Dyno AP 2x16 Sticks	**2.10**	**42.00**	**05OC16J1**	Nonel MS 40'	46.00	06FE17W1
Dyno Spartam 350	**0.75**	**3.00**	**05FE17J2**			
Total LBS		**91.34**				

Blasting Agent or Explosives	lbs each	Number Used	Date Code	Surface Delays	Number Used	Date Code
AN	**1.00**		**NA**			
DIESEL FUEL	**7.00**		**NA**	**Lead Line**	500.00	13FE17W1
ANFO BAGS - 50 lb	**50.00**	11.25	23FE17LE			
Total LBS		**562.50**				

Wet Hole Product	lbs each	Number Used	Date Code
Total LBS			

Totals

Total BCY's	**0.00**	**Total Dets**	**46.00**
Powder Factor	**#DIV/0!**	**Total Pounds in Shot**	**653.85**
Secondary Yardage		**Max. Holes per Delay**	**1.00**
Gross Cubic Yards	**0.00**	**Max Charge per 8 ms Delay in Lbs**	**653.85**

Distance and direction from nearest hole to closest structure:

Crew including Blaster in Charge: Steve Gurney,Mike Weaver, Shane Beckstead, Augo Iturro

Blaster's Signature Steve Gurney

Date of Report: 03/19/17