

Buckley Powder Co.

BLAST REPORT

SERVICE SITE LOCATION: Louviers ORDER NO.: 7402794BLAST NUMBER: 1-2016 BLAST TIME: 2:52 pm BLAST DATE: 01/11/2016CUSTOMER: ROCKY MOUNTAIN MATERIA MINE: ROCKY MOUNTAIN MATERIA ADDRESS: Colorado Springs, COROCK TYPE: Granite Tons/Yd3: 2.00 EXPECTED VIBRATION: 0.000

LOCATION OF BLAST

LOCATION OF BLAST IN MINE: North BENCH: Bench 1BLAST GPS POINTS: N 038 36.43800 & W -104 56.75400

WEATHER

WEATHER: Clear CEILING: Medium TEMPERATURE: 38 WIND DIRECTION & SPEED: Northeast 5

NEAREST NON-OWNED STRUCTURE

NAME: ROCKY MOUNTAIN MATERIALS GPS Points: N 038 36.45900 & W -104 56.63400DISTANCE: 1,500 Ft DIRECTION: 77°

SEISMOGRAPH DATA

LOCATION			DISTANCE		GPS POINTS			CALIBRATION DATE	
1	ROCKY MOUNTAIN MAT		1,500	Ft	N 038 36.45900 & W -104 56.63400			02/09/2015	
	L (F)	T (F)	V (F)		AIR (db)	SEISMOGRAPH	SERIAL	OPERATOR	
1	0.096 12	0.083 16	0.068 27		121	BA 9241	BA 9241	Farmer, Jimmie	

BLAST DATA

NUMBER OF HOLES (EA)	177	EXPLOSIVES SIZE, TYPE & WEIGHT		
HOLE DIAMETER (IN)	4.5	SIZE	TYPE	WEIGHT
HOLE DEPTH (FT)	33.75	0.44	SPARTAN 200	77.8800
FACE HEIGHT (FT)		0.75	SPARTAN 350	132.75
SUB DRILLING (FT)	0	BULK	TITAN 1000 XL	25,490
AVG. STEM FACE HOLES (FT)				
STEM OTHER HOLES (FT)	15			
BURDEN FRONT ROW (FT)				
BURDEN OTHER ROWS (FT)	12			
SPACING FRONT ROW (FT)				
SPACING OTHER ROWS (FT)	12		TOTAL WEIGHT:	25,700.63

DETONATORS USED IN BLAST: Non-ElectricMATS USED: NoSTEM TYPE: 3/4 x 1/2 CRUSHED

TYPE	MFG	DATE CODE	USED	TYPE	MFG	DATE CODE	USED
SPARTAN 350	Dyno Nobel Global	03JU15	178	SPARTAN 200	Dyno Nobel Global	09SE15	114
MS 350 50FT	Dyno Nobel Global	10AU15	33	EZTL 42MS 20FT	Dyno Nobel Global	17AU15	7
EZTL 67MS 30 FT	Dyno Nobel Global	20JY15	14	EZDET 25/350 40 FT	Dyno Nobel Global	26OC15	124
MS 350 40FT	Dyno Nobel Global	28SE15	80	EZDET 25/350 30 FT	Dyno Nobel Global	30OC15	55
LEADLINE 2500FT	Dyno Nobel Global	31AU15	250				

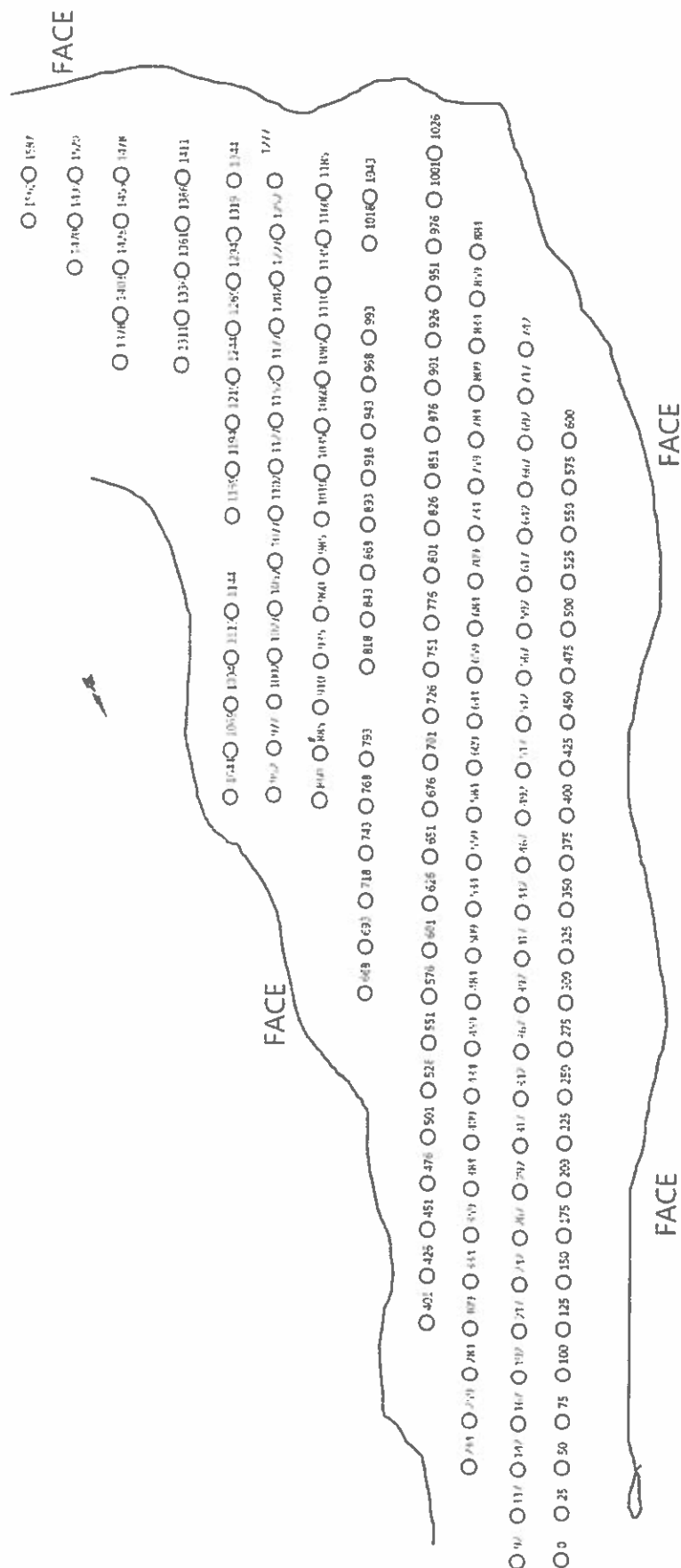
CU YDS IN SHOT: 31,860 SCALED DISTANCE FACTOR: 87 % OF ANFO: 0TONS IN SHOT: 63,720 HOLES/DELAY: 2 FUEL OIL % (BULK): 0MAX LBS/DELAY: 291 AVERAGE LBS/HOLE: 145POWDER FACTOR (TONS/LB): 2.48 POWDER FACTOR POUNDS/YD3: 0.81BLASTERS NAME: Shoemaker, Don S BLASTERS NUMBER & STATE: 1-001-01636BLASTERS SIGNATURE: [Signature] SITE SAFETY INSPECTION PERFORMED: NoNUMBER OF PERSONNEL ON SITE: 7REMARKS: Shot good, no anomalies, no loud air overpressure. Had 4 bad holes, 33.75' avg. 12' stem avg.

START TIME	END TIME	TOTAL TIME	TRUCK NUMBERS
7:45 AM	12:50 PM	05:05	5013

DIAGRAM

BLAST DATE: 01/12/2016

BLAST NUMBER: 1-2016





INST/NTL BlastMate III

Serial Number 8A9241 V 10.72-J 17
Trigger Source Geo 0.00700 in/s
Mic 130.0 dB(L)
Geo Range 1.25 in/s
Record Time 3.0 s at 1024 sps
Location: Rocky MT Colorado Springs CO
Shot#01-2016
Holes: 176
USER: JD

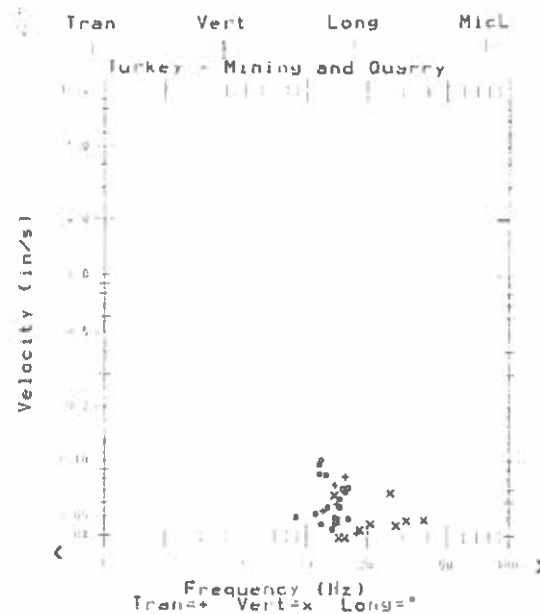
Pattern: 12x12
Scaled Distance 1500.0 ft., 445.0 lb.,
71.1

Trigger Long at 02:53:21 PM Jan 11 16

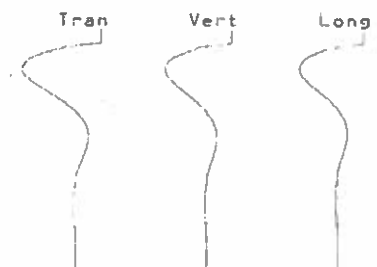
	Tran	Vert	Long
PPV	0.0825	0.0681	0.0962 in/s
EC Freq	16	27	12 Hz
Time	0.826	0.707	0.845 sec
Accel	0.0282	0.0530	0.0282 g
Pk Disp	0.00084	0.00054	0.00121 in

PVS 0.109 in/s at 0.854 Sec

PSPL 121.2 dB(L) at 1.688 Sec
8.8 Hz



SENSORCHECK CALIBRATION



FI=7.2 OI=4.1 FV=7.2 OV=4.2
FL=7.6 OL=4.0 FM=70.1 PM=552
Tran, Vert, Long, MicL Passed
Battery Level: 8.3 Volts

Calibration Name Instantel
Calibration December 24, 2015

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