DAILY BLASTING LOG

Booth Energy

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SCALE DISTANCE CALCULATIONS

The following scale distance equations are in effect at the time of publication of this booklet. Please be advised that these equations are subject to change by law. The equations are law and printed for information and Booth Energy assumes no responsibility for these equations. If you have any questions concerning the proper equation to use in figuring scale distance please contact someone with the Department of Mines and Minerals or the Department for Surface Mining Reclamation and Enforcement.

THE FOLLOWING EQUATION IS APPLICABLE TO CONSTRUCTION, QUARRY, OR SHOOTING OTHER THAN STRIP MINING FOR COAL

TABLE TO BE USED FOR DETERMINING WEIGHT OF EXPLOSIVES TO BE USED ON A SINGLE DELAY

DISTANCE is the actual distance to the nearest house, public building, school, church, commercial or institutional building in feet.

WEIGHT is the maximum weight of explosives to be used on a single delay.

DISTANCE	WEIGHT	DISTANCE	WEIGHT
5 - 10 '	1/8	350	49
11 - 15	1/4	400	64
16 - 20	1/2	500	100
21 - 25	3/4	600	144
26 - 30	1.00	700	196
40	2.25	800	256
50	3.50	900	324
60	4.75	1000	400
70	6.00	1100	484
80	7.25	1200	576
90	8.50	1300	676
100	9.75	1400	784
110	11.0	1500	900
130	13.5	1600	1024
150	16.0	1700	1156
170	18.5	1800	1296
190	21.0	1900	1444
210	23.5	2000	1600
230	26.0	2500	2500
250	28.5	3000	3600
270	31.0	3500	4900
290	33.5	4000	6400
300	34.75	4500	8100
		5000	10000

* Less than five (5) feet the total charge should not exceed 1/8 lb.

** For distances not in the table, use the formula:

$$\text{Weight} = \left(\frac{\text{Distance}}{50}\right)^2$$

REPORT OF BLASTING OPERATION

Name of Company _____ Address _____

Name of Location of Job _____

Date _____ Time of Blast _____ AM _____ PM _____

Amount(s) and Type(s) of Explosives Used _____

_____

Total No. of Holes _____ Burden and Spacing _____

Depth of Holes _____ Diameter of Holes _____

Depth of Stemming _____ Type of Stemming _____

Method of Initiation: Electric ( ) Detonating Cord ( ) Fuse ( ) Other _____

Delay Types _____ Type of circuit, if electric _____

Hole No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Delay No.																				
Lbs. Per Hole																				
Hole No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	30
Delay No.																				
Lbs. Per Hole																				

Hole No.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Delay No.																				
Lbs. Per Hole																				
Hole No.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Delay No.																				
Lbs. Per Hole																				

Maximum No. of Holes per delay _____ Maximum Weight of Explosives per delay _____

Distance, direction and identification of nearest dwelling, school church or commercial building _____

_____

Type of material blasted: Limestone ___ Shale ___ Sandstone ___ Slate ___ Other _____

Mat or other precautions used _____

Weather Conditions: Dry ( ) Foggy ( ) Clear ( ) Cloudy ( ) Rain ( ) Snow ( )

Temperature _____ Wind Direction _____ Approximate Wind Velocity _____

Seismograph Records Where Required

Location of Seismograph(s) used _____

Distance of Seismograph from blast _____ Seismic Data _____

Name of person taking seismograph reading _____

Name of person firm analyzing seismograph record _____

Name of Blaster

Blaster's License Number _____

Surface Coal Certifivation No. _____

SIGNED _____

DIAGRAM OF SHOT

(Indicate Hole Number, Location and Delay System)