

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF MINING AND RECLAMATION
BLASTING LOG

General Information

Permittee _____ Permit No. _____
 Operator Name _____ Date/Time _____
(Approved MR-19 Contract Operator, if applicable)
 Company Conducting Blast _____
(Contract Blaster i.e.; Shot Service, if applicable)
 Location of Blast _____
(Specify grid designation from blasting grid map, GPS location if available, and type of shot.)
 Nearest Protected Structure _____
(Specify name of homeowner/structure owner and structure number from blasting map)
 Direction and Distance to Nearest Protected Structure (Feet) _____
 Nearest Other Structure _____
(Specify name of owner, identifying no., describe i.e.: gas well, gas line, power line, phone line, water line, barn, etc.)
 Direction and Distance to Nearest Other Structure (Feet) _____
 Weather Conditions _____ Wind Direction and Speed _____
(Include estimated temperature, precipitation, sky conditions, speed and direction wind is blowing from shot)
 Type(s) of Material Blasted _____
 Mats or Other Protection Used _____

Blast Information

Type(s) of Explosives: Blasting Agent _____ Density _____
(Include percent blend of emulsion to anfo) (Product density in g/cc)
 High Explosives (Boosters) *(Include type, unit weight and total number used)* _____
 Total Weight of Explosives: Blasting Agent _____ lbs. + Boosters _____ lbs. = _____ lbs.
 Blast hole Data: Number _____ Diameter _____ Depth _____ Burden _____ Spacing _____
(For varying hole depth, diameter, stemming, burden and/or spacing, list additional data in 'Comments' and illustrate on 'Sketch' on Page 2)
 Powder Column _____ ft. Stemming: Type of Material _____ Length _____ ft.
 Delay Type, Brand and Delay Periods: _____
(Include surface and down hole delay periods)
 Maximum Weight of Explosives Allowed (per 8 MS Delay Period) _____ lbs.
[Show appropriate formula and answer for: 0-300 ft. $W=(d/50)^2$, 301-5,000 ft. $W=(d/55)^2$ or Over 5,000 ft. $W=(d/65)^2$]
 Maximum Weight of Explosives Used (per 8 MS Delay Period) _____ lbs.
 Weight of Explosives Used per Hole/Deck _____ lbs.
(If not the same for every hole/deck, include each weight and explain)
 Method of Firing and Type(s) of Circuits _____

Seismograph Data

Date and Time of Recording from the Seismogram: _____
 Type (Brand and Model Number) of Instrument: _____ Sensitivity: _____ Hz.
 Person and Company Who Installed Seismograph: _____
 Person and Firm Taking Readings: _____
 Person and Firm Analyzing Readings: _____
(Attach full waveform seismograms, for all seismograph recordings for this blast. Include calibration signal even if no trigger)
 Signature of Person Analyzing Readings: _____
 Location of Seismograph: _____
(Specify owner's name and structure number from the blast map, including distance from blast)
 Trigger Levels: Ground: _____ ips Air: _____ dB Length of Recording Time: _____ sec.
 Vibrations Recorded: Longitudinal: _____ Transverse: _____ Vertical: _____ Air Blast: _____
 Frequency: Longitudinal: _____ Hz. Transverse: _____ Hz. Vertical: _____ Hz. Air Blast: _____ Hz.
Certificate of annual calibration must be maintained at the mine site.

Sketch of Delay Pattern

Show North Arrow & Direction to Nearest Protected/Other Structure. Include Firing Time for Each Hole or Deck.

Comments

Include any special design features, such as decking (use sketch), variable hole depth, etc., reasons and conditions for unscheduled blasts and any unusual events or circumstances (i.e.; flyrock, excessive air blast or ground vibration, etc.). Include attachments as needed.

Blaster Information

Name of Blaster-in-Charge (Print or Type): _____

Signature of Blaster-in-Charge: _____

WVDEP Certification Number of Blaster-in-Charge: _____