PROPOSED BLASTING PLAN LOG

RESUBMIT 8/17/10

Project: HYAK TO SNOWSHED I-90 Date: ~~Aug 6, 2010~~

Company: KLB Shot No. WS17

Location of Blast: STA 1322+00 TO 1324+00 PRESPLIT

Rock Type: BASALT

Time of Blast - Planned or Actual: 8:00

Date of Blast - Planned or Actual: ~~Aug 9, 2010~~ Aug 23, 2010

Name of Blaster: CHARLES MURPHY License Number: UP 21262

Direction: NORTH Distance: 150 ft from I-90 WESTBOUND

No. of Holes: 81 Burden PRESP ft. Spacing: 30" ft. Depth: 6'-27' Diameter: 3½"

No. of Rows: 1 Bench Height: NA ft. Yield: NA Subdrilling: 1' ft.

Types and Height of Stemming: CRUSHED STONE 5/8" MAX ft.

Types of Explosives: SENETEL 7/8x16 ≈1000# lbs. Primer: #8 CAP & DET CO. lbs.

_____ _____ lbs. _____ _____ lbs.

Maximum Weight of Explosive Detonated Within Any ~~8ms~~ 8MS Delay period: ≈46 lbs.

Hole to Hole Delay N/A ft.
Row to Row Delay: N/A ft.

Total Weight of Explosives, Including Primers, this Blast: ≈1000# lbs.

Estimated Powder Factor or Explosives Ratio: N/A lbs/uft
_____ lbs/Ton

Method of Firing: NON ELECTRIC SHOT SHELL PRIMER

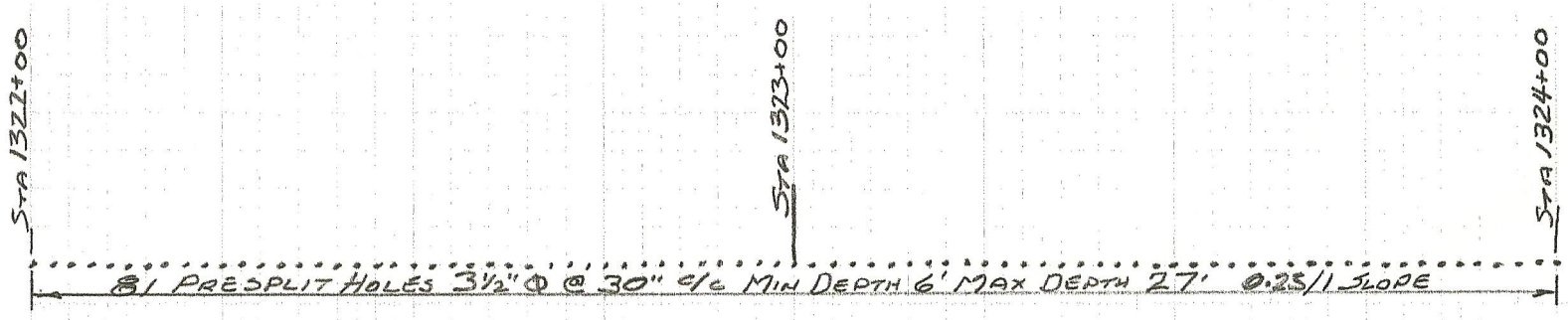
No. of Timer Circuits: 1 Timer Interval: _____ lbs.

Type of delay detonator used: MS 9 CORD Time Interval: _____ ft/s

RESULTS: NOTE: PRODUCTION ASSOCIATED WITH THIS BLAST WILL TAKE PLACE AFTER THE BACKFILL REQUIRED FOR ALLESS HAS BEEN REMOVED AFTER SHOOTING THE PRESPLIT LINE

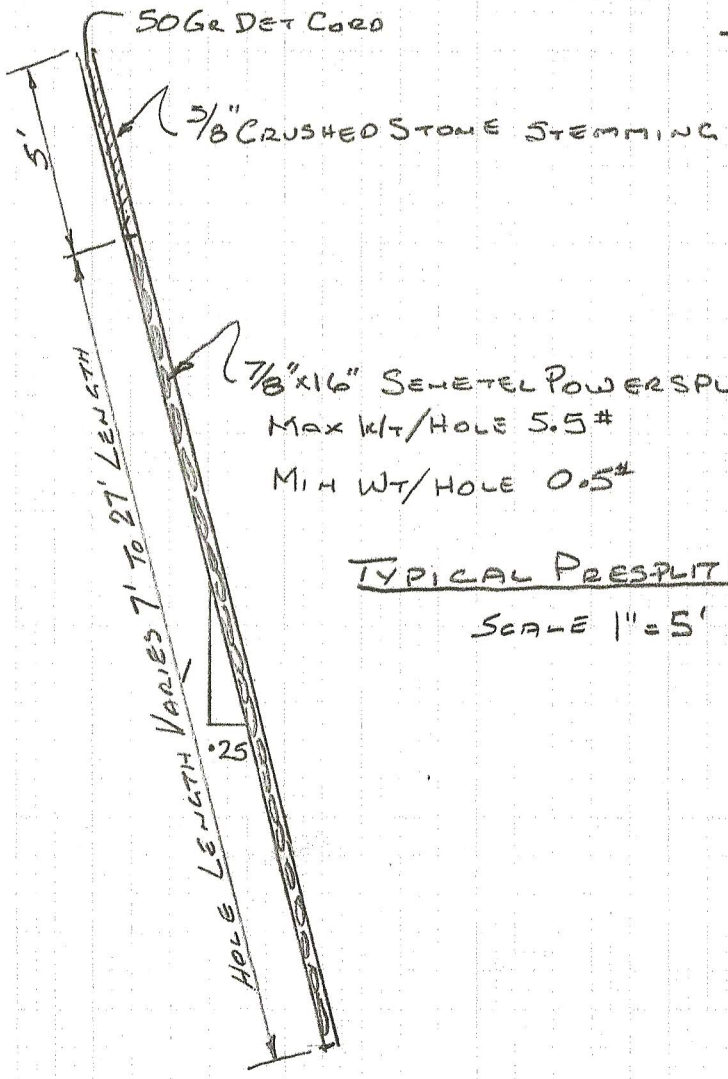
Submitted by: [signature]

FORMS_FIELD_Proposed Blasting Plan rev. 20080620



PLAN VIEW PROPOSED BLAST WS 17

SCALE 1" = 25'



TYPICAL PRESPLIT HOLE

SCALE 1" = 5'

PROPOSED BLAST NO: WS 17
PROPOSED DATE: AUG 9, 2010
SUBMITTED BY: CHARLES MURPHY