PROPOSED BLASTING PLAN LOG

Project: HYAK TO SNOWSHED I-90 Date: AUG 24

Company: KLB Shot No. WS 29

Location of Blast: STA 1322+00 — 1324+00

Rock Type: MIXED BASALT & TUFF

Time of Blast - Planned or Actual: 7:30

Date of Blast - Planned or Actual: AUG 25, 2010

Name of Blaster: CHARLES MURPHY License Number: UP21262

Direction: N Distance: ≈100' ft from I-90 WESTBOUND

No. of Holes: ~~50~~ 25 Burden: ~~8~~ 6 ft. Spacing: ~~8~~ 8 ft. Depth: ~~26~~ 8 Diameter: ~~3½~~ 3½

No. of Rows: 3 Bench Height: 24 ft. Yield: 3800 Subdrilling: 2' ft.

Types and Height of Stemming: 5' TO 7' ft.

Types of Explosives: ANFO 3675 lbs. Primer: ¼# SENETEL lbs.

lbs. lbs.

Maximum Weight of Explosive Detonated Within Any 8ft. Delay period: lbs.

Hole to Hole Delay: 25 MS ft.
Row to Row Delay: 42 MS ft.

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

Estimated Powder Factor or Explosives Ratio: .96 #/yd lbs/uft
lbs/Ton

Method of Firing: NON ELECTRIC SHOTSHELL PRIMER

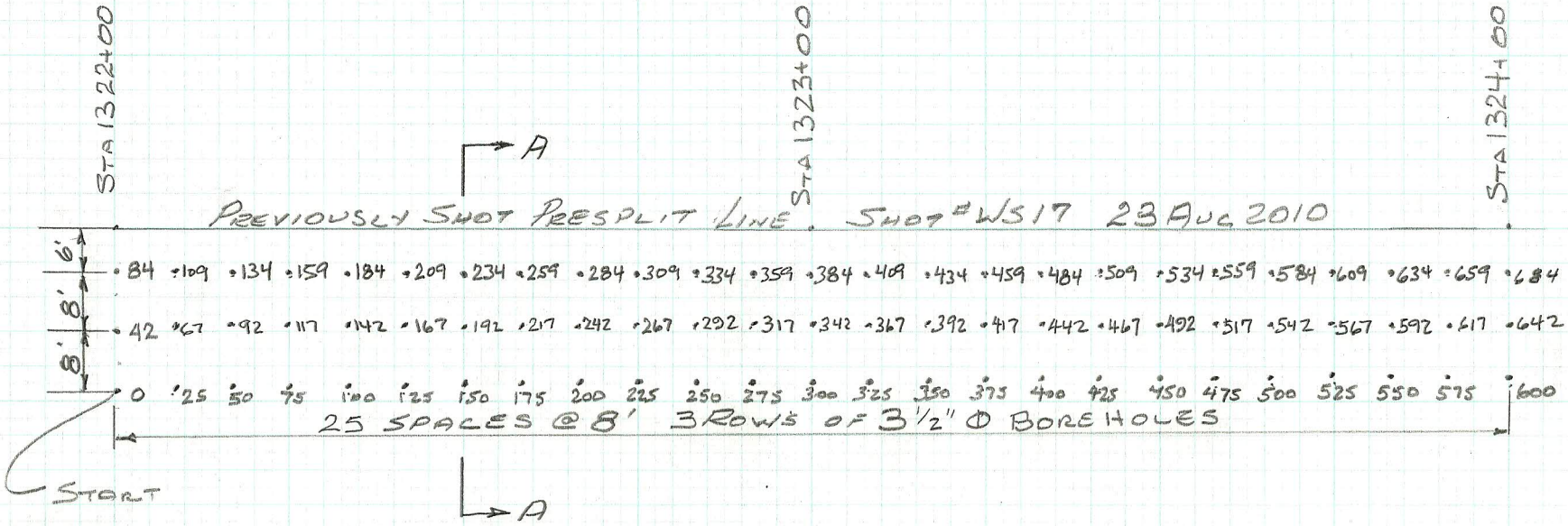
No. of Timer Circuits: N/A Timer Interval: N/A lbs.

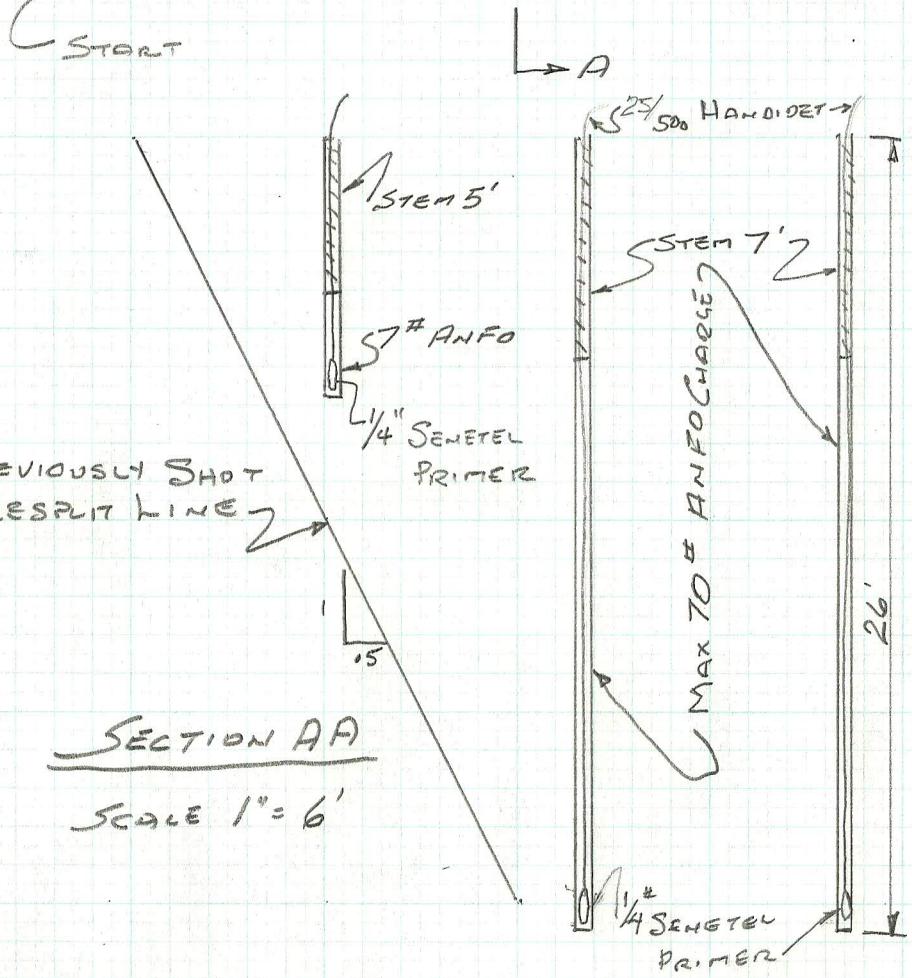
Type of delay detonator used: 25/500 HANDIDET Time Interval: ft/s

RESULTS:

Submitted by: [signature]

FORMS_FIELD_Proposed Blasting Plan rev. 20080620





SECTION AA

SCALE 1" = 6'

PLAN PROPOSED BLAST 29

SCALE 1" = 25'

PROPOSED DATE: