PROPOSED BLASTING PLAN

Hyak Wa. I 90

Company Western STATES Date OCTOBER 18, 10 Shot # SN6

Location of Blast 1340 +00

Date of Blast Planned 10-18-10 Time of Blast 6:pm Rock Type Lapilli Tuff

Name of Blaster Vic Bronson License Number U 21291

Direction N Distance 70' Feet From I90

# of Pre-Split Holes 10 Spacing 30 Depth 15 Slope 25:1 Charge WT 3.2 lbs LF Drilled ____

Holes 33 Burden 6 ft Spacing 6 ft Depth 10' Diameter 3" Stemming 6'

Holes ____ Burden ____ ft Spacing ____ ft Depth ____ Diameter ____ Stemming ____

Holes ____ Burden ____ ft Spacing ____ ft Depth ____ Diameter ____ Stemming ____

Rows ____ Bench Height ____ ft Yield ____ cu/yds Subdrilling ____

Type Stemming CRUSHED STONE Max Weight of Explosives per Delay 15 lbs

Explosives Type and Estimated Quantity's

Anfo 500 lbs Primer's 13 lbs/ea Pre-Split Powder 40 lbs

Stick Powder Type — Amount — lbs

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Hole to Hole Delay 25 MS Row to Row Delay 42 MS

Total Weight of Explosives 600 lbs Estimated Powder Factor 60 lbs cu/yd

Method of Initation Non Electric Shock Shell Type of Detonator & Delay Manudelays

Notes: 1340 Has 10 presplit Holes for Clean up and High Bottom for production. Would like to shoot with SN6 as scheduled

Plan Submitted By Vic Bronson Date 10-18-10

Note: Production blast holes will only be fired if pre-split line is blasted in combination or prior to the blast for a distance of 30 feet at the beginning and end of production blasting.