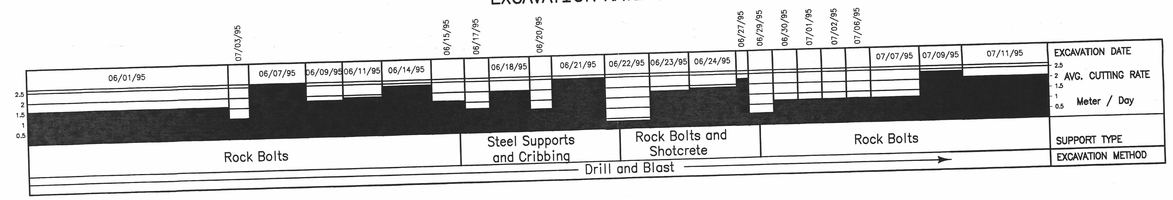
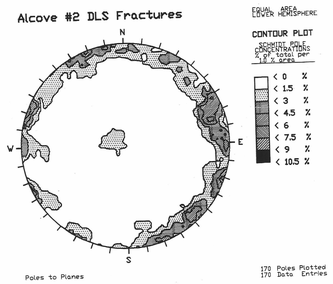
ROCK-MASS CLASSIFICATION

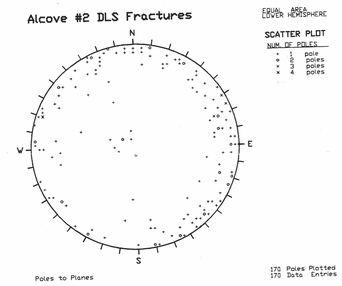
STATION	5 – 10	10 – 15	15 – 20	20 – 25	25 –30	30 – 35	35 – 40	40 – 45	45 – 48.44
R.Q.D.	94%	97%	89%	87%	92%	93%	92%	98%	100%
SCANLINE Q	0.7	1.1	1.8	0.7	0.5	3.4	3.6	1.2	NR
MAPPED Q	1.1	0.3	0.5	0.4	0.3	0.4	0.6	0.3	0.4
Δ Q *	0.2	−0.6	−0.6	−0.2	−0.3	−0.9	−0.8	−0.6	NR
DESCRIPTION	POOR	VERY POOR	VERY POOR	VERY POOR	VERY POOR	VERY POOR	VERY POOR	VERY POOR	VERY POOR
SCANLINE RMR	51	51	66	66	62	61	64	61	NR
DESCRIPTION	FAIR	FAIR	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	NR

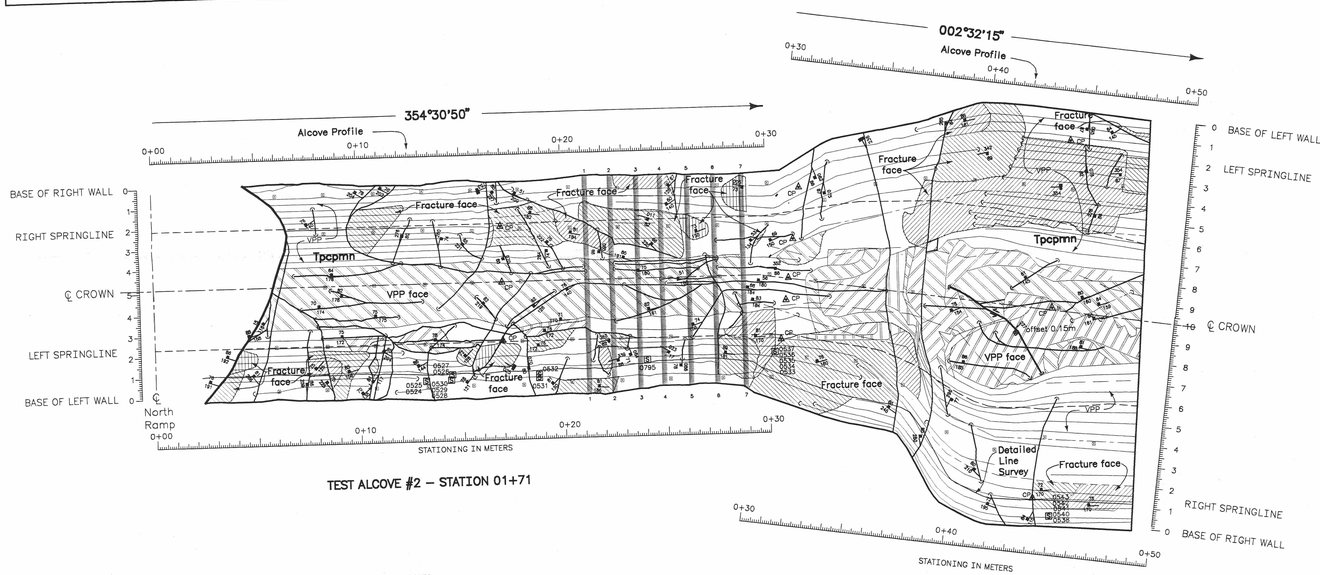
$$* \Delta Q = \log_{10}\left(\frac{\text{MAPPED Q}}{\text{SCANLINE Q}}\right)$$

EXCAVATION RATE AND SUPPORT







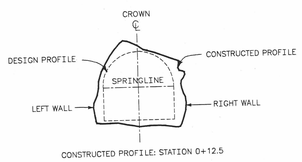


TEST ALCOVE #2 – STATION 01+71

EXPLANATION

3592 Sample location with last 4 digits of SPC number

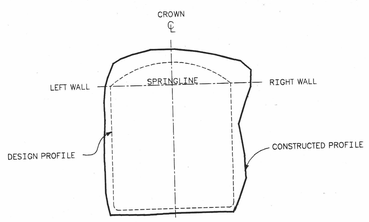
CP Approximate location of Convergence Pin



CONSTRUCTED PROFILE: STATION 0+12.5

1 0 4

Scale of 1:125



CONSTRUCTED PROFILE: STATION 0+42.0

1 0 4

Scale of 1:125

Notes

– Ground support in the Alcove is not divided into categories as it is in the North Ramp, Main Tunnel and South Ramp.

– Stationing of the Alcove begins at centerline of North Ramp.

– For General Geologic Explanation and Notes, see Drawing OA–46–179.

– Not all rock anchors shown.

Stratigraphic units are from:

– Geslin, J. K., and Moyer, T. C., 1995, Summary of Lithologic Logging of New and Existing Boreholes at Yucca Mountain, Nevada, March 1994 to June 1994, U.S. Geological Survey Open–File Report 94–451.

– Buesch, D. C., Spengler, R. W., Moyer, T. C., and Geslin, J. K., 1996, proposed stratigraphic nomenclature and macroscopic identification of lithostratigraphic units of the Paintbrush Group exposed at Yucca Mountain, Nevada, U.S. Geological Survey Open – File Report 94–469.

8/20/96 REVISION C
8/20/96

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION / U.S. GEOLOGICAL SURVEY
YUCCA MOUNTAIN PROJECT
GEOLOGIC MAPPING OF THE ESF

ESF – NORTH RAMP D-15

TEST ALCOVE #2
FULL–PERIPHERY GEOLOGIC MAPS
AS BUILT GEOLOGY AND GEOTECHNICAL DATA

GEOLOGY USBR MAPPING TEAM PEER REVIEW MARK H. McKEOWN
DRAWN USBR CADD TEAM PRINCIPAL INVESTIGATOR STEVEN C. BEASON
CHECKED ROBERT C. LUNG T.P.O. J.A. KRULIK

CADD SYSTEM AutoCadd 12.0 | CADD FILENAME ALC_2 | DTN GS960908314224.019
MERCURY, NEVADA | SCP 8.3.1.4.2.2.4 | OA–46–288