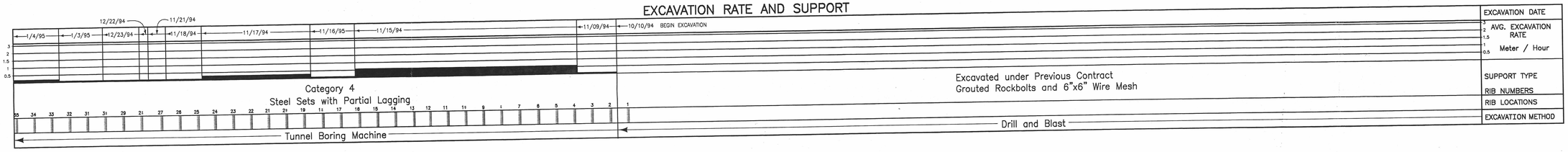
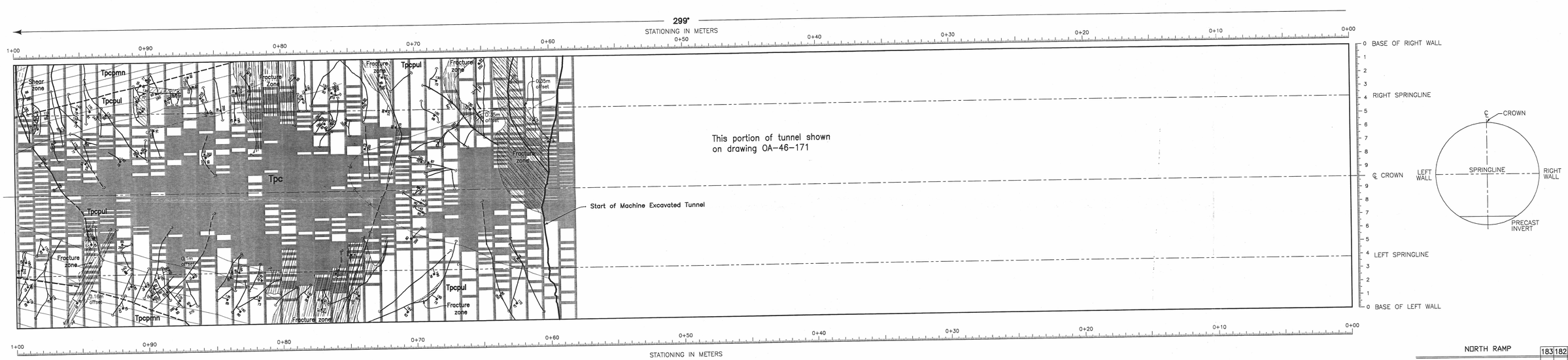
ROCK–MASS CLASSIFICATION

99%	96%	100%	90%	92%	75%	95%	35%	R.Q.D.
0.50	0.80	0.20	0.40	0.70	0.50	0.40	0.40	SCANLINE Q
0.37	2.4	0.33	1.5	0.77	0.67	1.6	1.2	MAPPED Q
−0.1	0.5	0.2	0.6	0.0	0.1	0.6	0.5	Δ Q *
VERY POOR	POOR	VERY POOR	POOR	VERY POOR		POOR		DESCRIPTION
69	67	50	66	68	68	56	46	SCANLINE RMR
GOOD ROCK		FAIR ROCK	GOOD ROCK			FAIR ROCK		DESCRIPTION

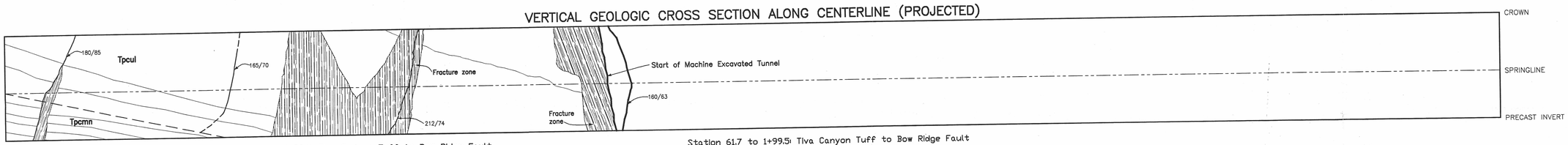
$* \Delta Q = \log_{10}\left(\frac{\text{MAPPED Q}}{\text{SCANLINE Q}}\right)$

EXCAVATION RATE AND SUPPORT





VERTICAL GEOLOGIC CROSS SECTION ALONG CENTERLINE (PROJECTED)



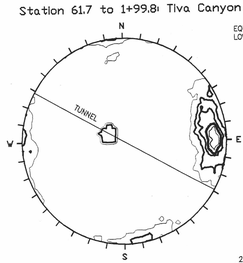
Notes

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

Fracture data for stereo plots were taken exclusively from detailed line surveys along right wall.

1 0 5
1:125 (METERS)

Station 61.7 to 1+99.8: Tiva Canyon Tuff to Bow Ridge Fault



EQUAL AREA
LOWER HEMISHPERE

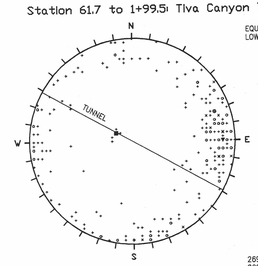
CONTOUR PLOT

SCHMIDT POLE CONCENTRATIONS
% total per 1.0 % area
Minimum Contour = 2
Contour Interval = 2
Max. Concentration = 11.5

POLES OF PLANES

269 Poles Plotted
269 Data Entries

Station 61.7 to 1+99.5: Tiva Canyon Tuff to Bow Ridge Fault



EQUAL AREA
LOWER HEMISHPERE

SCATTER PLOT

NUM. OF POLES	
·	1 pole
o	2 pole
×	3 pole
×	4 pole
⊗	5 pole
✱	6 pole
▲	7 pole
◆	8 pole
▼	9 pole
■	10 pole

POLES OF PLANES

269 Poles Plotted
269 Data Entries

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-08

STATION 0+60 TO STATION 1+00
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 AutoCad 12.0	CADD FILENAME TBM60X.DWG	DTN GS950508314224.003
MERCURY, NEVADA	SCP 8.3.1.4.2.2.4	OA–46–180