DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

Prepared on behalf of the
U.S. Department of Energy

Open-File Report
83 - 399
Plate 6

E 630 000 | E 630 500 | E 631 000 | E 631 500 | E 632 000 | E 632 500 | E 633 000 | E 633 500 | E 634 000 | E 634 500 | E 635 000 | E 635 500 | E 636 000 | E 636 500 | E 637 000 | E 637 500 | E 638 000 | E 638 500

N 897 000 | N 896 500 | N 896 000 | N 895 500 | N 895 000 | N 894 500 | N 894 000 | N 893 500 | N 893 000 | N 892 500 | N 892 000 | N 891 500 | N 891 000 | N 890 500

U12n.05 UG-4 · U12n.10 INTERFACE · U12n.10 UG-5 · U12n.10 UG-6 · U12n.10A · U12n.10 UG-7 · U12n.10 UG-4 · U12n.10 · U12n.08 CH-17 · U12n.08 SWS-2 · U12n.08 SWS-1 · U12n.05 UG-8 · U12n.08 · U12n.11 UG-1 · U12n.11 UG-2 · U12n.12 UG-1 · U12n.03 · U12n.05 UG-1a · U12n.05 UG-2 · U12n.05 · U12n.05 UG-3 · U12n.04 · U12n.04 UG-2 · U12n.02 UG-1 · U12n.02 · U12n.01 LOS#1 · U12n.01 LOS#2 · U12n MAIN DRIFT · U12n.06 · U12n.07 UG-10 · SPLAT · U12n.09 · U12n.07 · U12n.07 UG-12 · U12n.07 UG-3 · U12n.07 UG-1 · U12n.07 UG-2

FOR SURVEYS AND DETAILS OF ADDITIONAL MINING FOR U12n.10A EVENT IN THIS AREA SEE FIGURE 33 AND TABLE 2

INDEX OF GEOPHYSICAL MEASUREMENTS IN DRIFTS

KEY	DATE	DRIFT	INTERVAL (CS)	WP (CS)	DESCRIPTION
A	9/66	U12n.02	16+70 - 20+70 WP+12 - WP+80 15+71 - 20+70	20+90	P seismic P seismic (in hook drift) resistivity
B	2/67	U12n.03	6+35 - 21+32 6+00 - 21+00	21+50	P seismic resistivity
C	10/67	U12n.04	7+30 - 13+35 7+30 - 13+35 1+00 - 12+75	13+54	P seismic S seismic resistivity
D	10/71	U12n.05	22+67 - 25+74 22+67 - 25+74	26+08	P seismic S seismic
E	6/69	U12n.06	10+90 - 17+90 10+90 - 17+90 13+10 - 18+00	18+05	P seismic S seismic accel
F	11/72 2/73	U12n.07	4+12 - 11+41 4+12 - 11+41	11+60	P seismic S seismic
G	1/74	U12n.08	10+31 - 17+34 10+31 - 17+34	17+56	P seismic S seismic
H	2/74	U12n.08	--- 1/		special seismic investigation
I	4/74	U12n.09	3+26 - 4+08		P seismic
J	4/74	SPLAT	--- 2/		special seismic investigation
K	7/75 9/75	U12n.10 MAIN	10+99 - 19+79 10+99 - 19+79 10+99 - 19+79 10+99 - 19+79	20+05	P seismic S seismic P seismic (repeat) S seismic (repeat)
L	7/75	U12n.10 BYPASS	9+96 - 18+75 9+96 - 18+75		P seismic S seismic
M	9/75	U12n.10 INTERFACE	0+30 - 3+50 0+30 - 3+50		P seismic S seismic
N	9/75	U12n.10 "A" STRUCTURES	0+49 - 2+90 0+49 - 2+90		P seismic S seismic
O	9/75 9/75	U12n.10 "B" STRUCTURES	0+81 - 3+47 0+81 - 3+47 0+81 - 3+47 0+81 - 3+47		P seismic S seismic P seismic (repeat) S seismic (repeat)
P	9/75	U12n.10 "C" STRUCTURES	0+99 - 3+74 0+99 - 3+74		P seismic S seismic
Q	9/75	U12n.10	--- 3/		special seismic investigation
R	7/79	U12n.11 MAIN	6+15 - 12+75 6+15 - 12+75	13+00	P seismic S seismic
	7/79	U12n.11 BYPASS	6+37 - 10+62 6+15 - 10+62		P seismic S seismic

1/ Cross drift velocity measurements.
2/ Short-offset velocity measurements near SPLAT HE experiment.
3/ P and S velocity measurements from WP to structure drift (fan shooting).

INDEX OF GEOPHYSICAL MEASUREMENTS IN DRILL HOLES

KEY	DATE	HOLE	INTERVAL (feet)	TD (feet)	DESCRIPTION
a	2/73 11/72	U12n.02 UG-1	1,760 - 850 2,065 - 65 2,020 - 1,010 710 - 630	2,640	seismic resistivity sonic
b	6/67	U12n.04 UG-2	954 - 8	959	resistivity
c	8/68	U12n.05 UG-1a	1,970 - 10	2,023	resistivity
d	1/71	U12n.05 UG-2	2,341 - 40 2,303 - 1,703	2,380	resistivity seismic
e	2/71	U12n.05 UG-3	231 - 8 1,107 - 27	1,114	resistivity resistivity (second run)
f	1/72	U12n.05 UG-4	2,165 - 635	2,184	resistivity
g	4/73	U12n.05 UG-8	1,894 - 784 1,892 - 432 1,884 - 64	1,904	seismic resistivity sonic
h	11/70 9/70	U12n.07 UG-1	1,440 - 0 1,432 - 32	1,452	seismic resistivity
i	8/72	U12n.07 UG-2	1,150 - 490 1,117 - 17	1,150	seismic resistivity
j	2/73	U12n.07 UG-3	2,519 - 29 2,352 - 1,918	2,653	resistivity sonic
k	12/73	U12n.07 UG-10	623 - 403 613 - 193	773	resistivity sonic
l	2/74	U12n.07 UG-12	482 - 292 492 - 32 492 - 42	502	seismic resistivity sonic
m	1/75	U12n.10 UG-1	1,392 - 52 1,381 - 841	1,402	resistivity sonic
n	6/75	U12n.10 UG-4	357 - 8 333 - 33	363	resistivity sonic
o	6/75	U12n.10 UG-5	757 - 19 750 - 210	772	resistivity sonic
p	8/75 9/75	U12n.10 UG-7	313 - 52 306 - 9 287 - 52 295 - 78	313	seismic resistivity sonic sonic (rerun)
q	1/77 12/76	U12n.11 UG-1	1,988 - 488 1,988 - 29 1,991 - 712	2,000	seismic resistivity sonic
r	6/78	U12n.11 UG-2	1,393 - 33 1,381 - 681 778 - 88	1,404	resistivity sonic sonic (shear)
s	3/79	U12n.12 UG-1	755 - 15 740 - 10 724 - 24	768	resistivity sonic sonic (shear)
t	5/79	U12n.08 CH-17 U12n.08 SWS-1 U12n.08 SWS-2	62 - 8 61 - 6 61 - 6	72 77 77	sonic (shear) sonic sonic

EXPLANATION

- WP U12n.10 10+00 — DRIFT--Showing construction station, in hundreds plus tens of feet. Working point (WP)
- TD=1402 500 U12n.10 UG-1 — DRILL HOLE--Showing depth, in feet. Total depth (TD)
- (n) — INTERVAL IN WHICH GEOPHYSICAL MEASUREMENTS WERE MADE--Letter key to index (n)
- (Q) — AREA IN WHICH GEOPHYSICAL MEASUREMENTS WERE MADE --Letter key to index (Q)

0 500 1000 FEET
0 100 200 300 METERS

U12n tunnel complex showing locations where geophysical surveys were made.