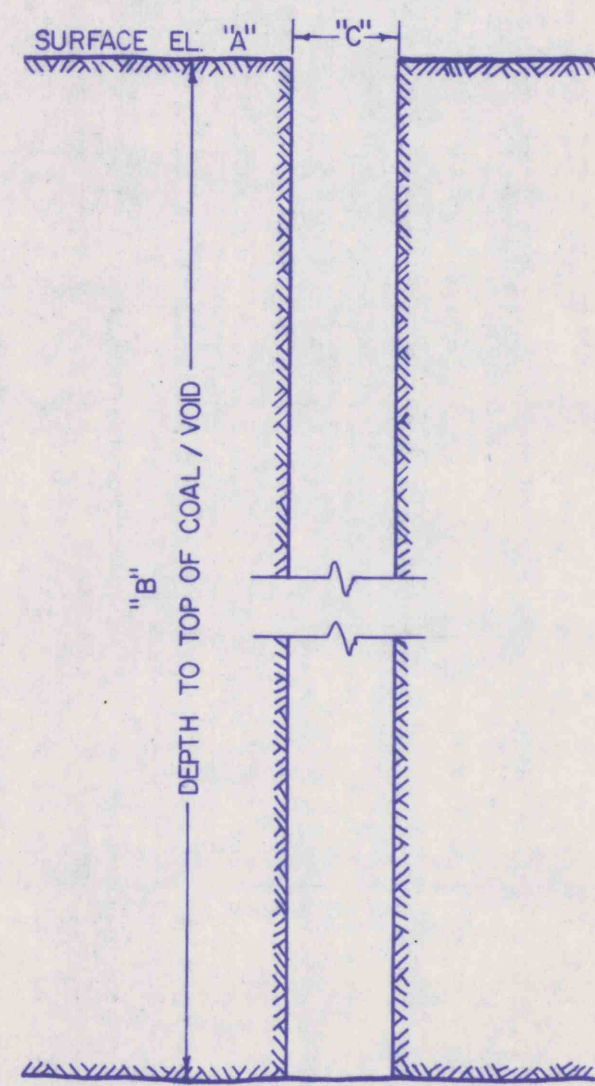
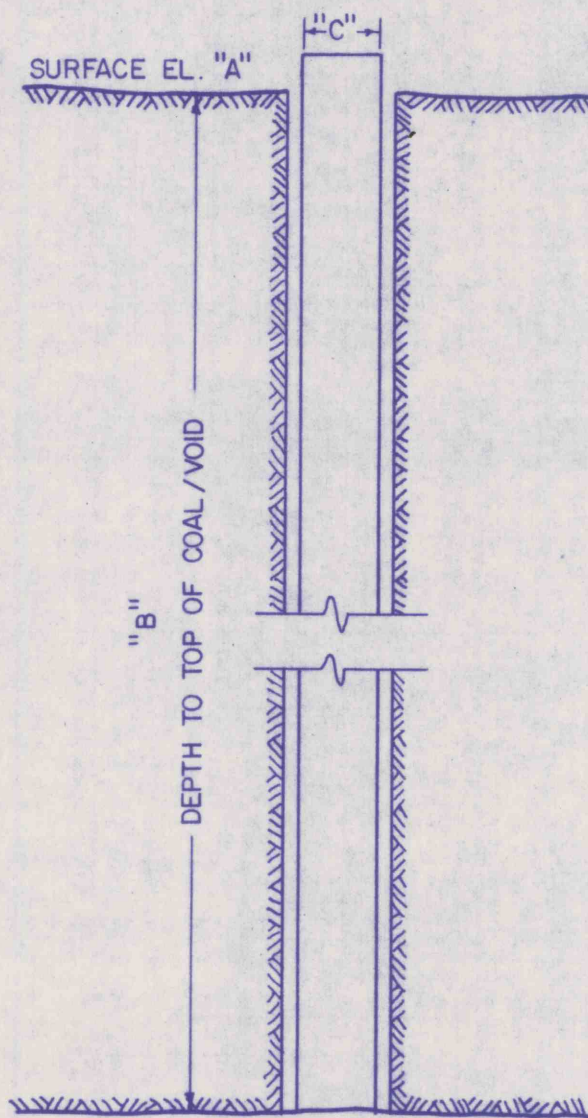


BOREHOLE TYPICAL (1) FOR
(UNCASED / UNGROUTED BOREHOLES)



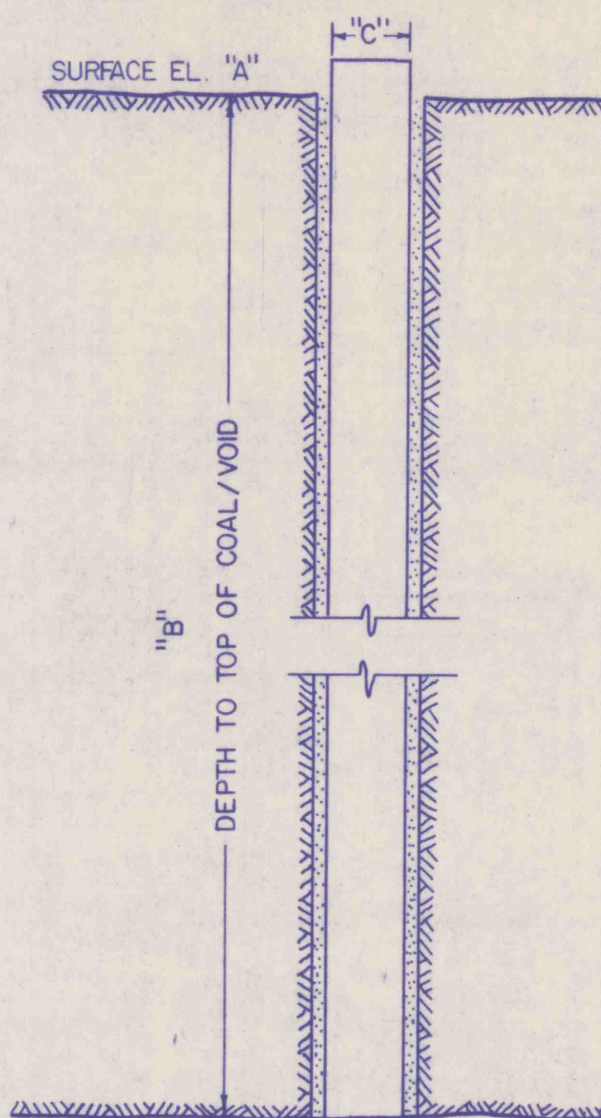
MINE VOID

BOREHOLE TYPICAL (2) FOR
(CASED / UNGROUTED BOREHOLES)



MINE VOID

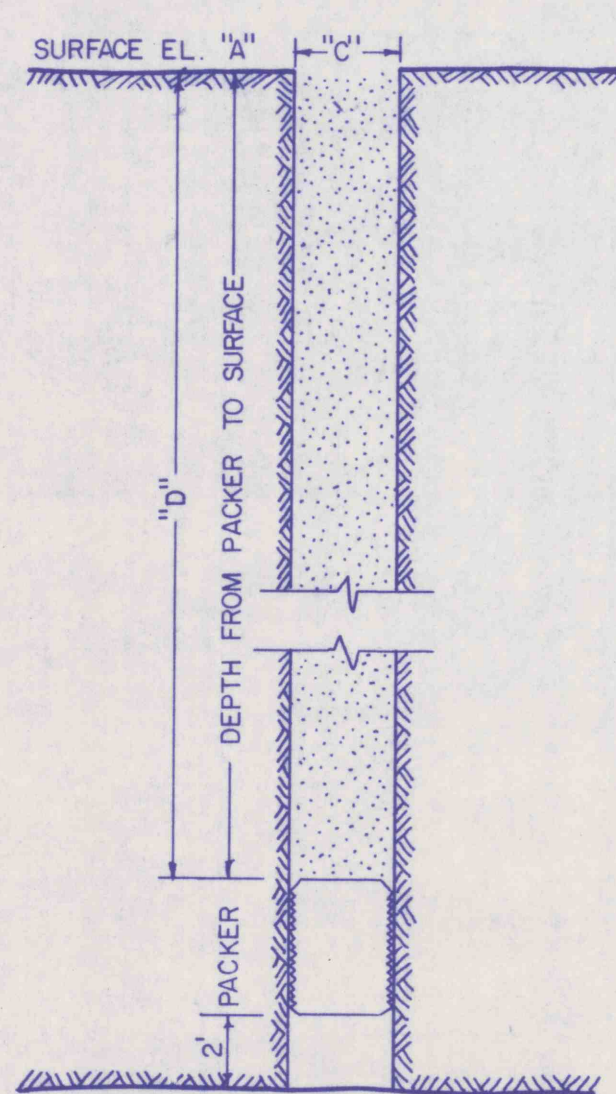
BOREHOLE TYPICAL (3) FOR
(CASED / GROUDED BOREHOLES)



MINE VOID

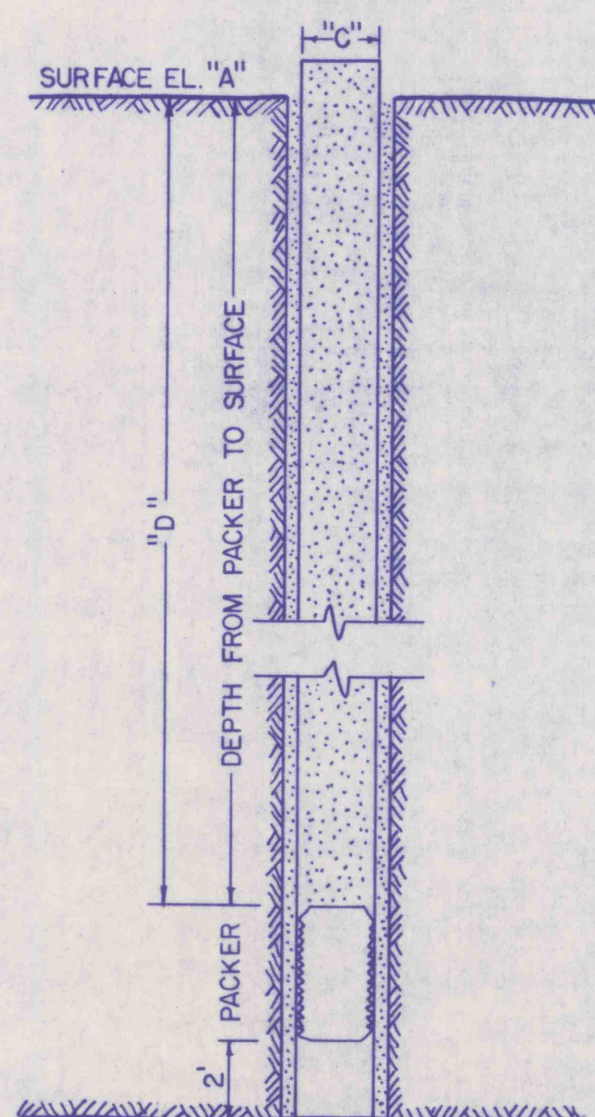
TYPICAL BOREHOLE CONFIGURATIONS

SEALING DETAIL (4) FOR
(UNCASED / UNGROUTED BOREHOLES)



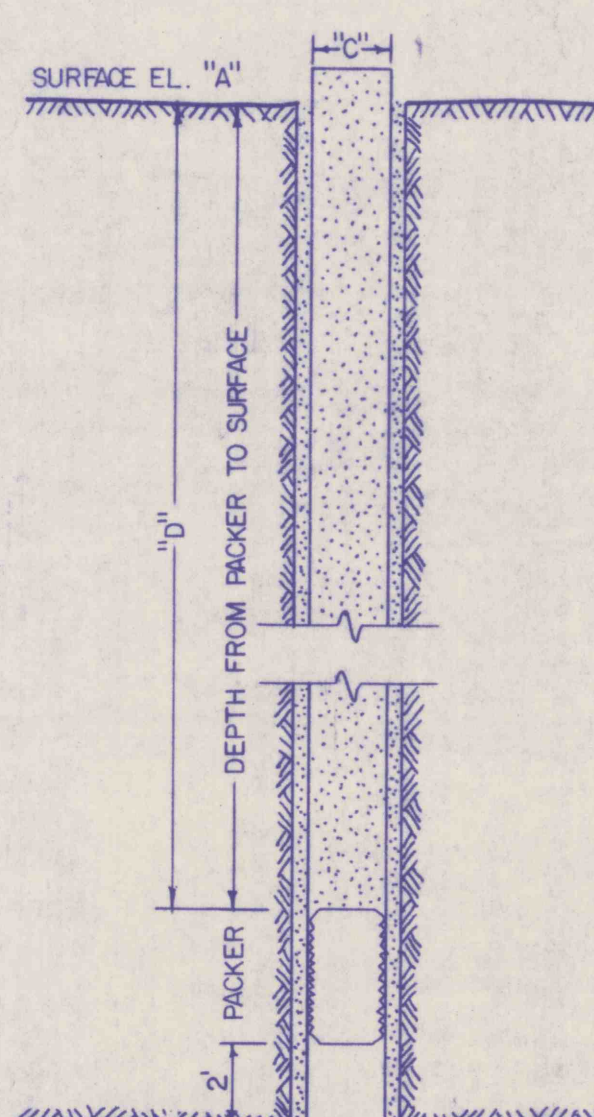
MINE VOID

SEALING DETAIL (5) FOR
(CASED / UNGROUTED BOREHOLES)



MINE VOID

SEALING DETAIL (6) FOR
(CASED / GROUDED BOREHOLES)

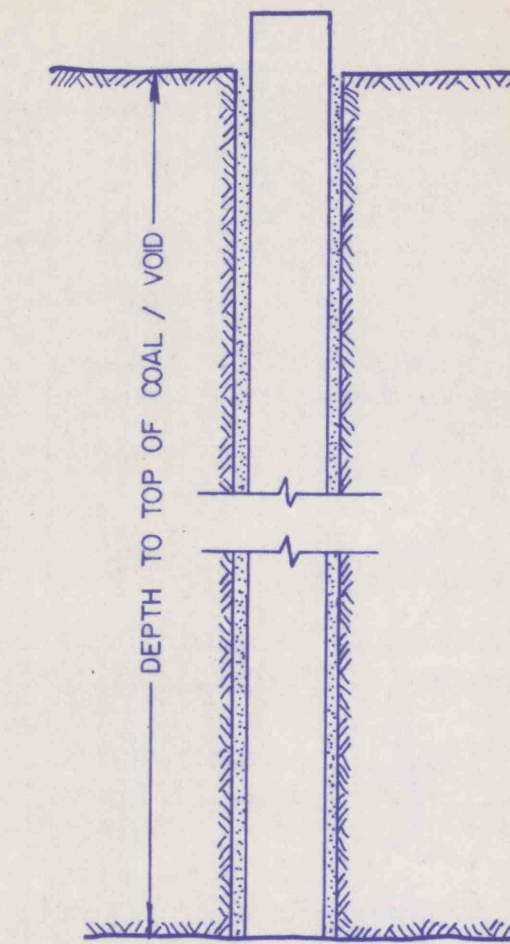


MINE VOID

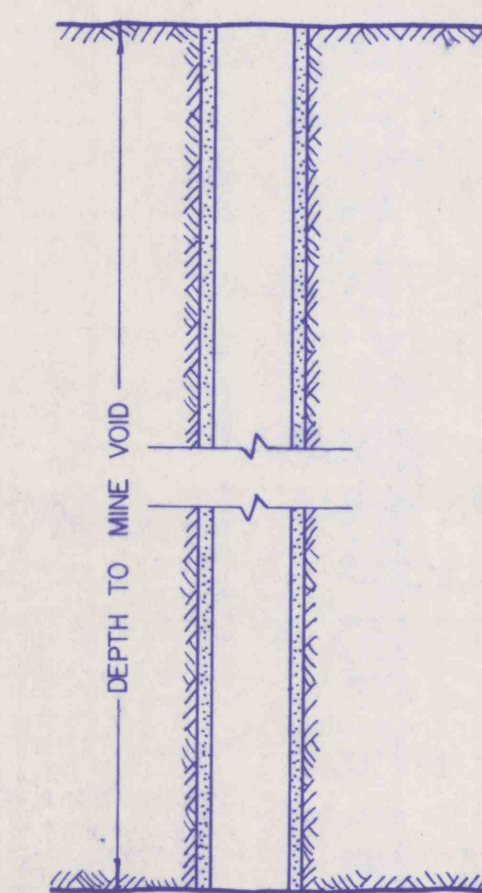
TYPICAL SEALING DETAILS

SEAL NO	"A"	"B"	"C"	CASING TYPE	CASING DEPTH	"D"
4	1481	286'	6"	STEEL	286'	281'
5	1736	588'	6"	STEEL	588'	583'
6	1384	227'	10"	STEEL	227'	222'
9	1356	211'	8"	STEEL	211'	206'
10	1667	577'	6"	STEEL	577'	572'
11	1557	557'	20"	STEEL	557'	552'
12	1560	560'	20"	STEEL	560'	555'
15	1211	61'	10"	STEEL	61'	56'
16	1286	116'	6"	STEEL	116'	111'
18	1486	480'	20"	STEEL	480'	475'
19	1638	491'	6"	STEEL	491'	486'
20	1791	668'	6"	STEEL	668'	663'
21	1619	515'	6"	STEEL	515'	505'
22	1615	515'	6"	STEEL	515'	510'
24	1632	497'	6"	STEEL	497'	492'
25	1754	565'	6"	STEEL	565'	560'
26	1752	471'	6"	STEEL	471'	466'
27	1752	471'	6"	STEEL	471'	466'
28	1752	472'	6"	STEEL	472'	467'
29	2050	639'	6"	STEEL	639'	634'
30	1924	642'	6"	STEEL	642'	637'
31	1620	454'	6"	STEEL	454'	449'

BOREHOLE TYPICAL (7) FOR
SEAL AREA 1B
(CASED / GROUDED DRAIN HOLES)

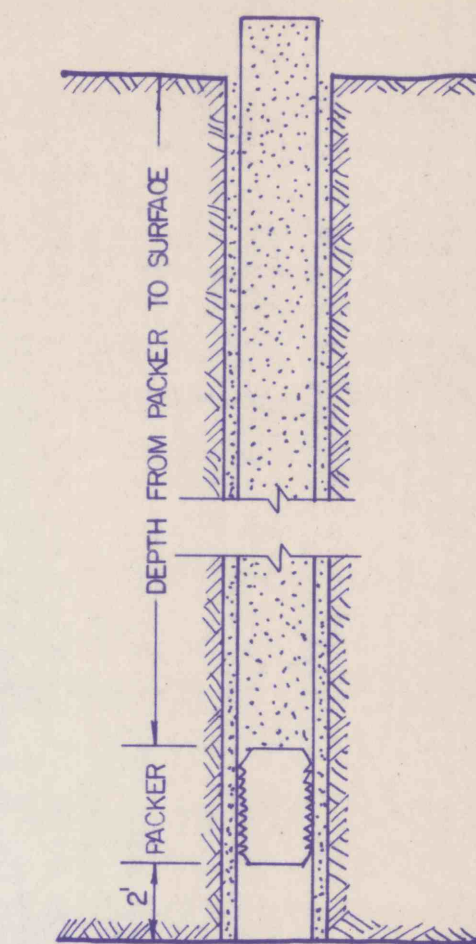


MINE VOID

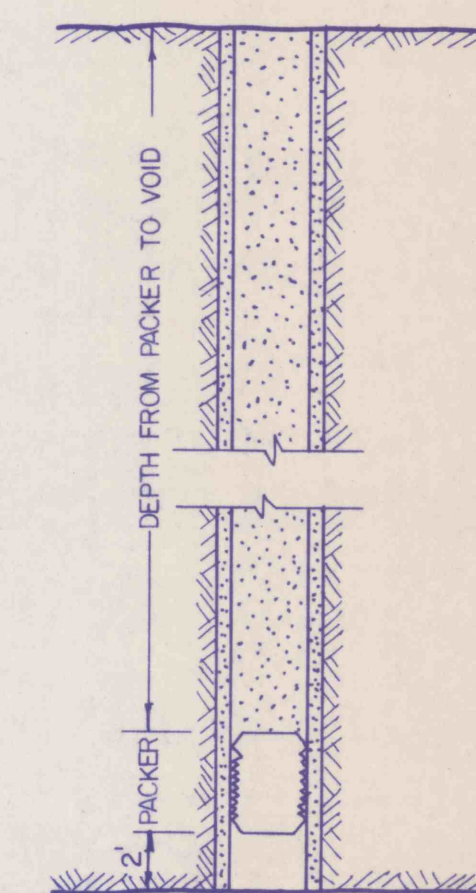


MINE VOID

SEALING DETAIL (8) FOR
SEAL AREA 1B
(CASED / GROUDED DRAIN HOLES)

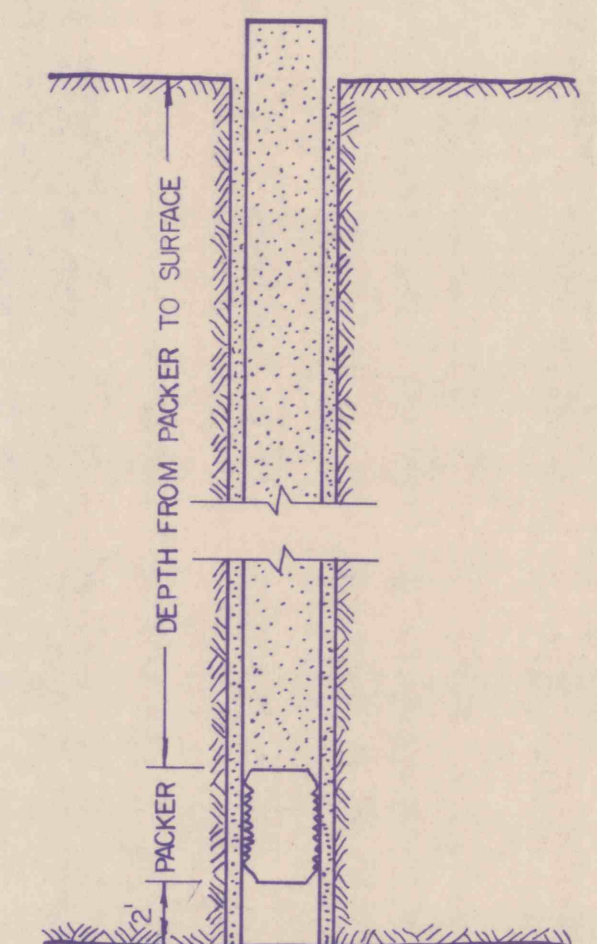


MINE VOID

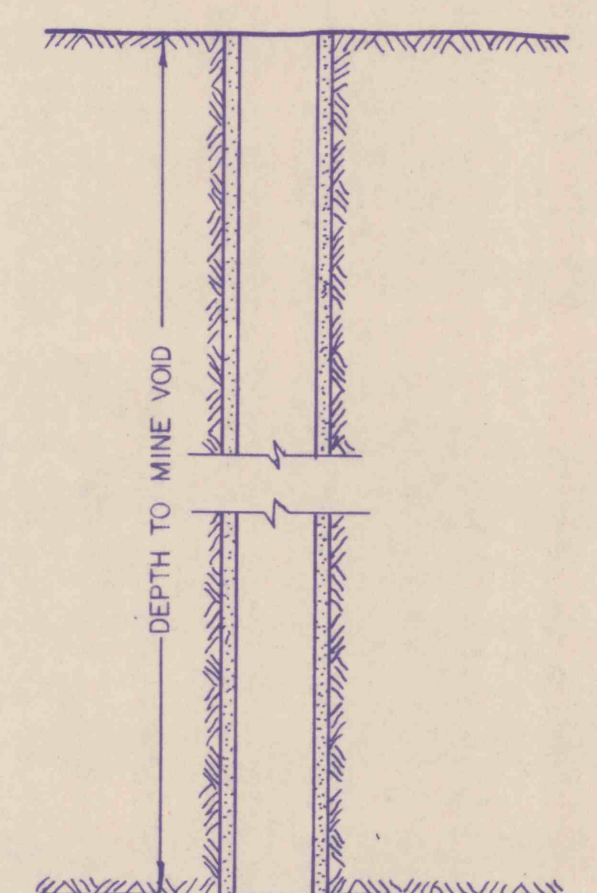


MINE VOID

SEALING DETAIL (9) FOR
SEAL AREA 1B
(CASED / GROUDED DRAIN HOLES)

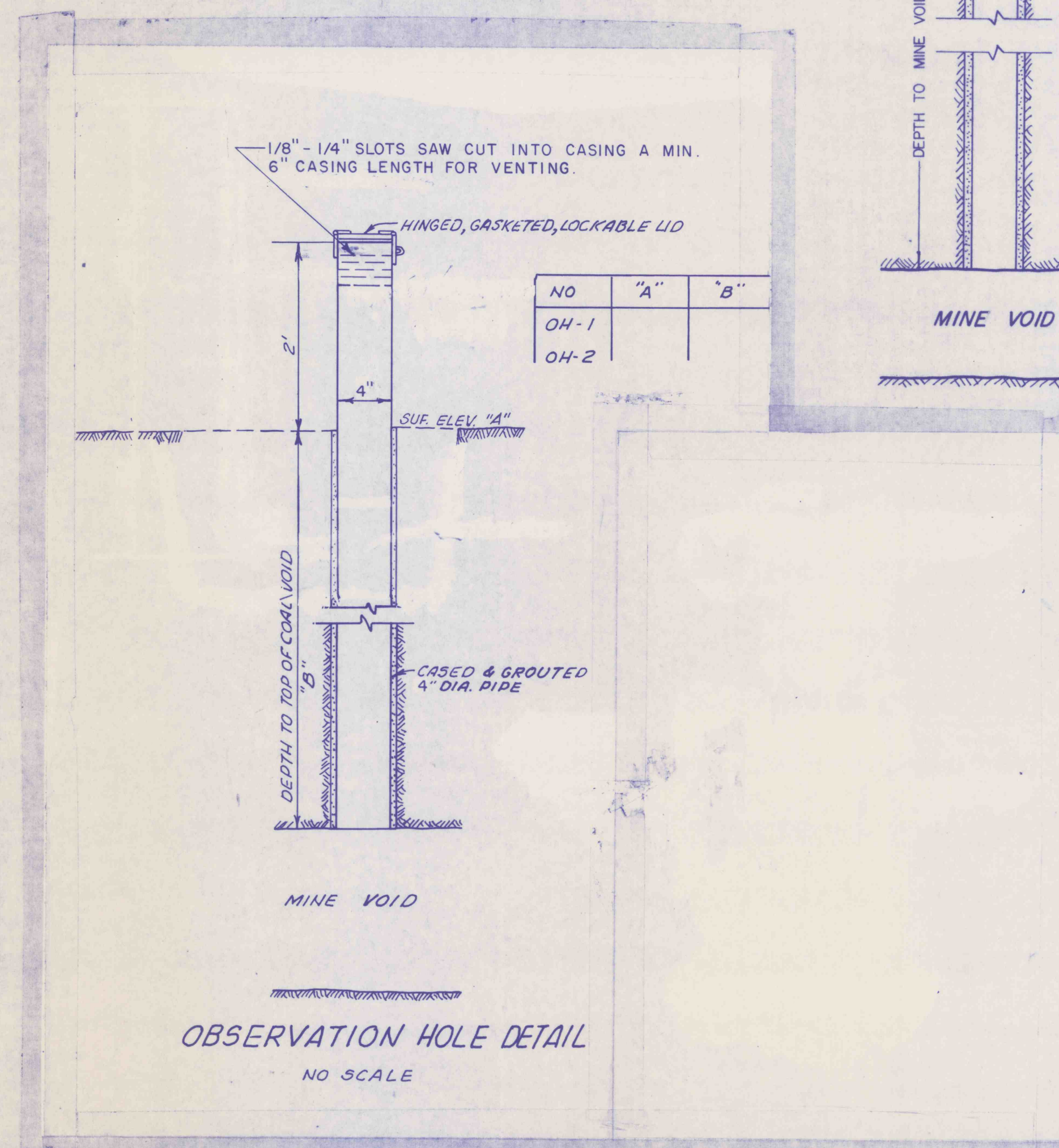


MINE VOID



MINE VOID

DRAIN HOLE SEALING



OBSERVATION HOLE DETAIL
NO SCALE

RECEIVED
SEP 29 1989

Dept. of Environmental Resources
McMurray District Office

REVISIONS	ISSUED	BOREHOLE SEALING DETAILS	SCALE NO SCALE
		BIRD NO. 2 & 3 BIRD COAL COMPANY SITUATE STONY CREEK TOWNSHIP, CAMBRIA CO, PA CONEMAUGH TWP, SOMERSET CO, PA	
APPROVED:	JOB	GWIN, DOBSON & FOREMAN, INC. CONSULTING ENGINEERS ALTOONA, PENNSYLVANIA	SHEET NO. 38
	FILE	DRAWN BY: BLK CHECKED:	