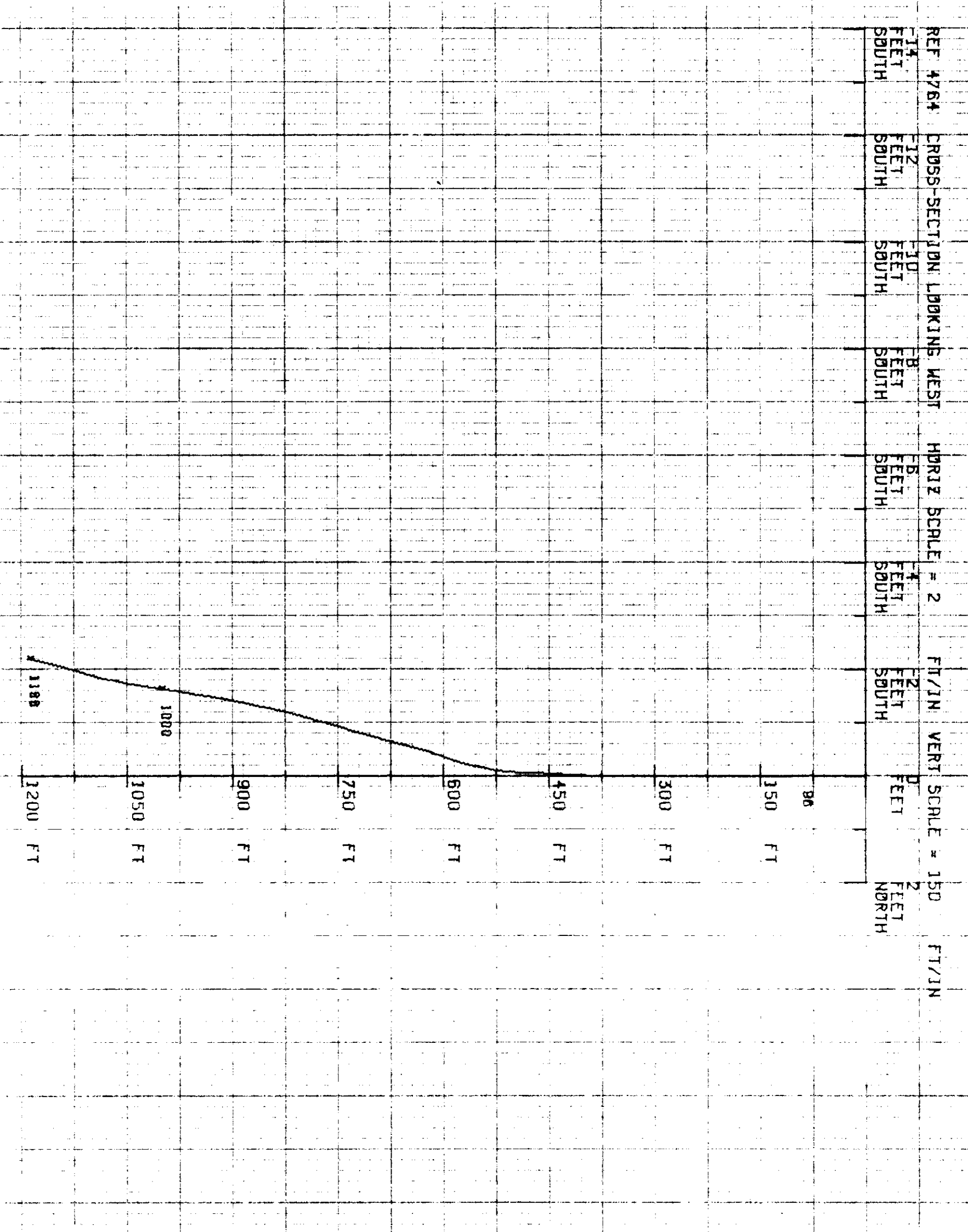
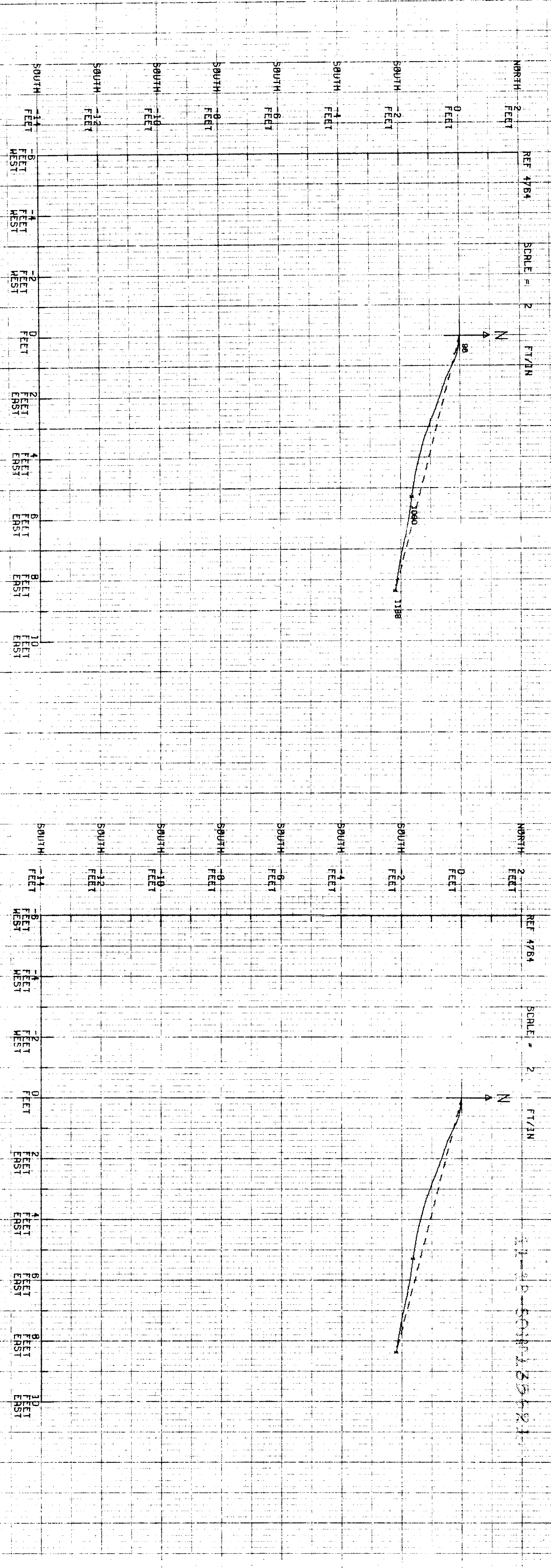


SCHLUMBERGER
 SCHLUMBERGER DIRECTIONAL SURVEY

FENIX P. SCLISSON
 OLD ROAD #7A
 OLD ROAD FLRT. FIELD
 CLATSOP CO. COUNTY, OREGON
 RUN NO. 3 112 - 1188
 BUDGET 16, 1980
 START OF SURVEY IS COINS RT. 96 FT.
 TANGENTIAL METHOD



REF. 4784	CROSS-SECTION LOOKING WEST	HORIZ. SCALE = 2	FT/IN	VERT. SCALE = 150	FT/IN
REF. 4784	CROSS-SECTION LOOKING NORTH	HORIZ. SCALE = 2	FT/IN	VERT. SCALE = 150	FT/IN
0	0	0	0	96	0
1	1	1	1	1350	1
2	2	2	2	300	2
3	3	3	3	450	3
4	4	4	4	600	4
5	5	5	5	750	5
6	6	6	6	900	6
7	7	7	7	1050	7
8	8	8	8	1200	8
9	9	9	9	1188	9

TANGENTIAL METHOD

BOTTOM HOLE LOCATION

COURSE LENGTH 8.7 FEET
 COURSE AZIMUTH 104.6 DEG.
 MEASURED DEPTH 1188.0 FEET
 TRUE VERTICAL DEPTH 1187.9 FEET
 DISTANCE SOUTH 2.2 FEET
 DISTANCE EAST 8.4 FEET

REF. 4784