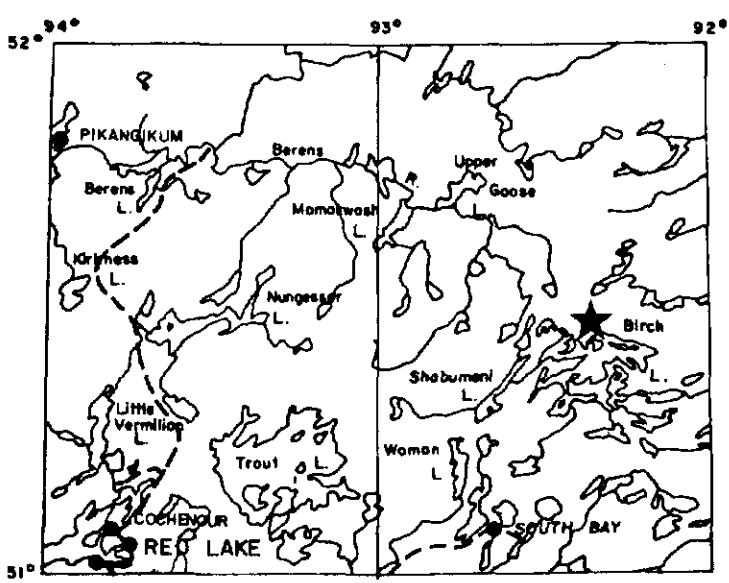


LEGEND

- 6 a MAFIC FLOWS
- 6 b TUFFS
- 5 a GREYWACKE
- 5 b IRON FORMATION - SLATES
- CARB. HORIZON
- CHERT - MAGNETITE
- cc : CARB. - PREDOMINATELY ANKERITE
- mag : MAGNETITE
- osp : ARSENOPYRITE
- py : PYRITE
- qv : QUARTZ VEIN
- b : BLUE
- : FOLIATION
- : BEDDING
- - - : CONTACT
- : SHAFT
- : ROAD

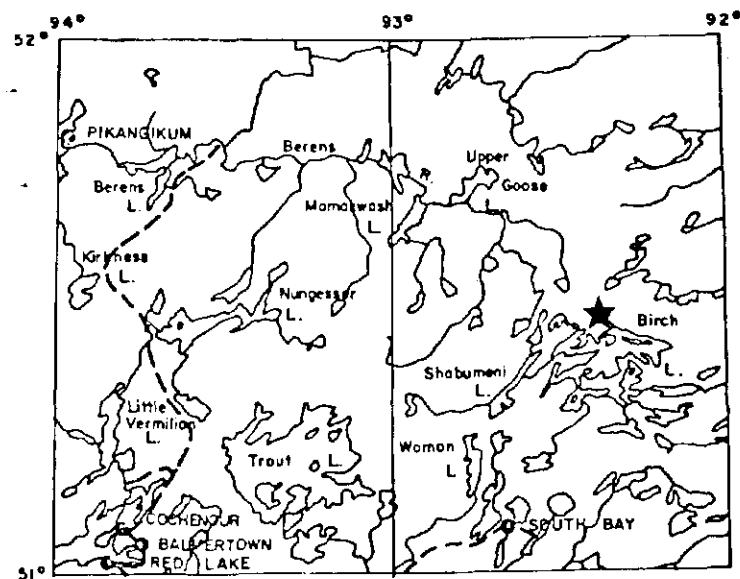


LOCATION MAP
1:1,500,000
52 N

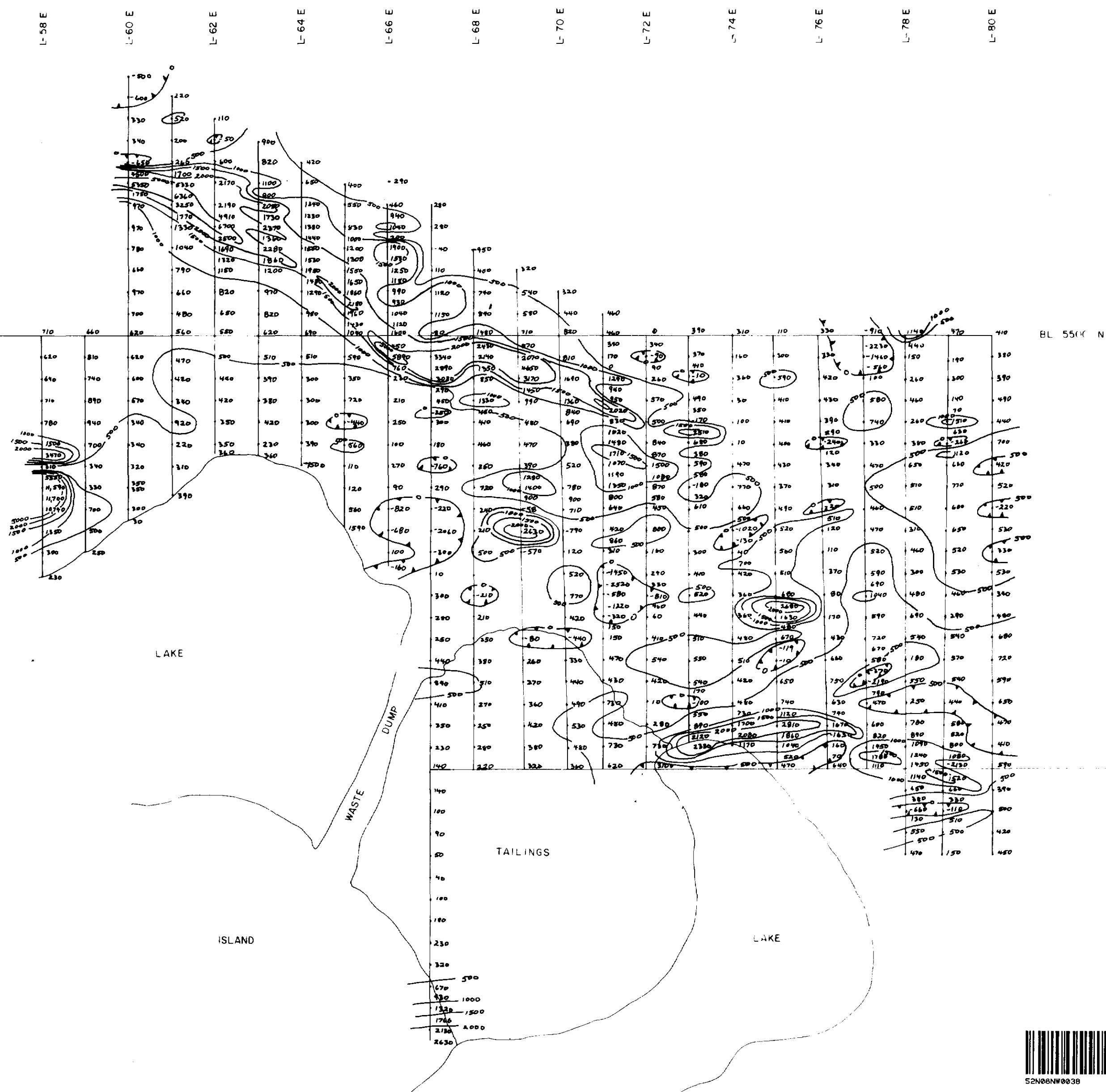


REVISED	
PROJ No 1307	PROJECT GRAND BAY OPTION
NTS: 52N/8	DRAWN BY R. K. DATE: DEC 1986
SCALE:	
1" = 200'	

GEOLOGY



LOCATION MAP
1:1,600,000
52 N



210

REVISED	MAGNETOMETER SURVEY	
PROJ No 1307	PROJECT GRAND BAY OPTION	
NTS 52 N/8	DRAWN BY R. K.	DATE
SCALE	noranda	
1" = 200'	NORANDA EXPLORATION Co LTD - THUNDER BAY	

6 VEIN
PROJECTION

7 VEIN
PROJECTION

4 VEIN
PROJECTION

3 VEIN
PROJECTION

5 VEIN
PROJECTION

2 SHAF

2 VEIN
PROJECTION

1 VEIN
PROJECTION

8 VEIN
PROJECTION

1 VEIN
PROJECTION

1 SHAF

LEGEND

- 9 QUARTZ FELDSPAR PORPHYRY
- 6 BASALT
- 5a GREYWACKE, SHALE, SANDSTONE
- 5b IRON FORMATION
- 2 INTERMEDIATE TUFF

NORANDA DIAMOND DRILL HOLES

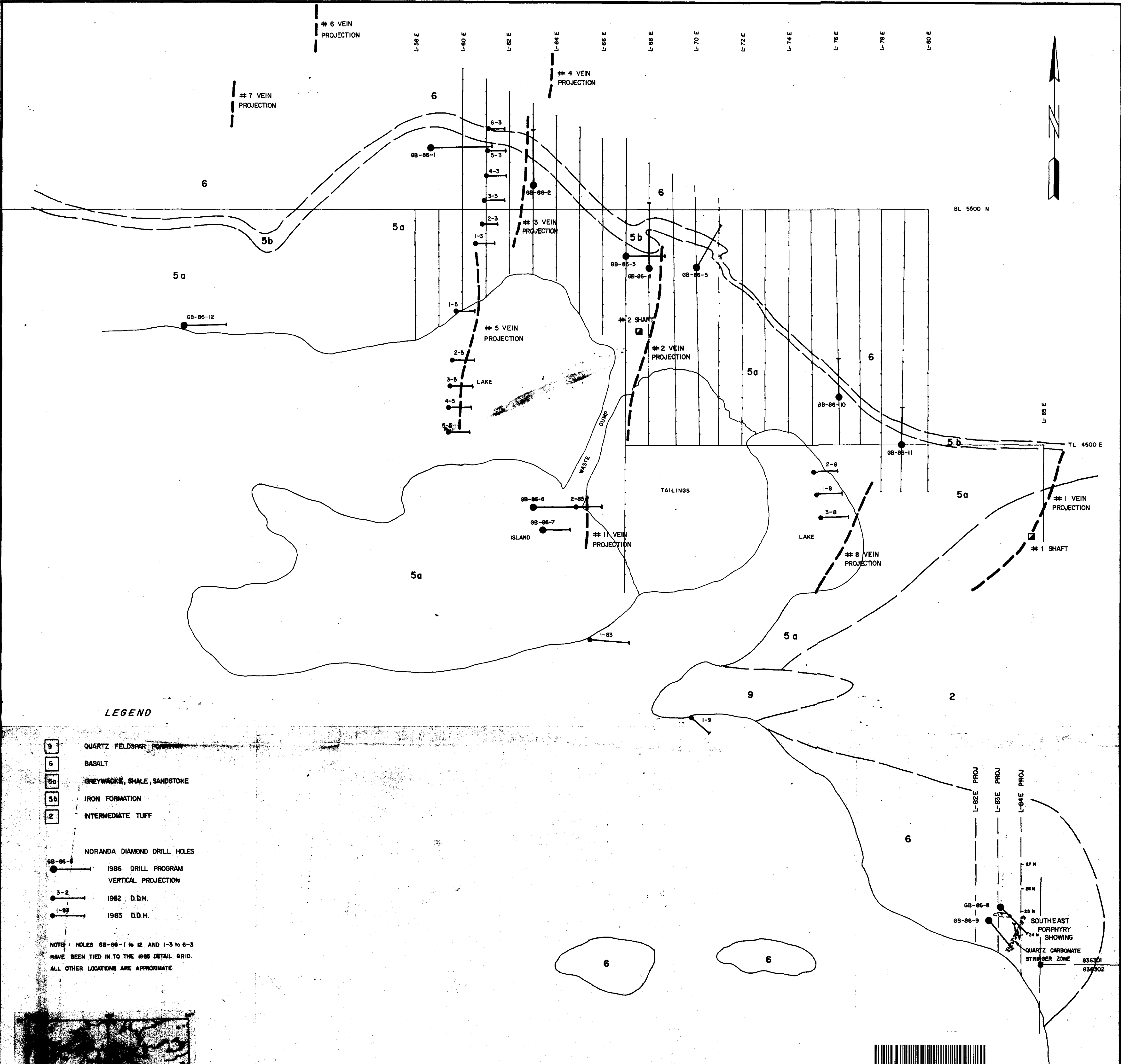
- GB-86-4 1986 DRILL PROGRAM VERTICAL PROJECTION
- 3-2 1982 D.D.H.
- 1-83 1983 D.D.H.

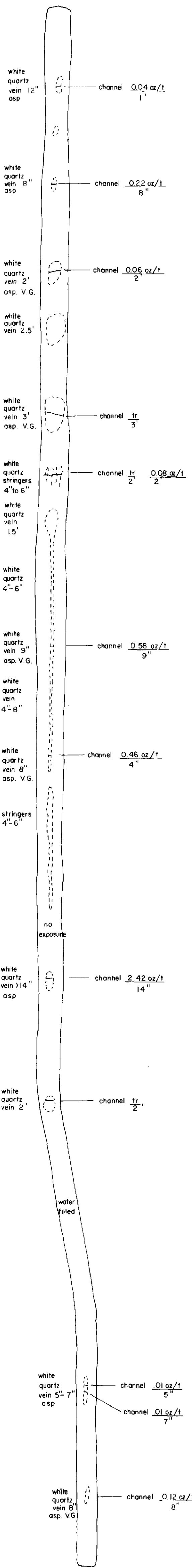
NOTE: HOLES GB-86-1 to 12 AND 1-3 to 6-3 HAVE BEEN TIED IN TO THE 1985 DETAIL GRID. ALL OTHER LOCATIONS ARE APPROXIMATE



220

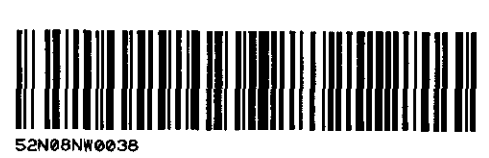
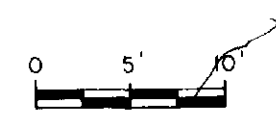
GEOLOGY 8
DRILL HOLE LOCATIONS





WHITE QUARTZ VEIN
 crack and seal texture
 varied width, zones of stringers
 strike and dip varies
 arsenopyrite, wallrock
 (altered by carbonate)
 and visible gold along
 fractures

HOST
 mafic (flowtop breccia to hyaloclastite)
 6"-8" heavy alteration at contact
 to vein, carbonate (ankarite) and arsenopyrite
 (1/8" to 1/4" tetrahedrons)
 foliation - moderate
 Strike 80° dip 70°-80°
 all wallrock samples (6) - tr



230

63+50E
 61+00N

REVISED	# 4 VEIN
PROJ. No: 1307	PROJECT: GRAND BAY OPTION
N.T.S.:	DRAWN BY: R. K. DATE: OCT 1985
SCALE: 1" = 10'	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY

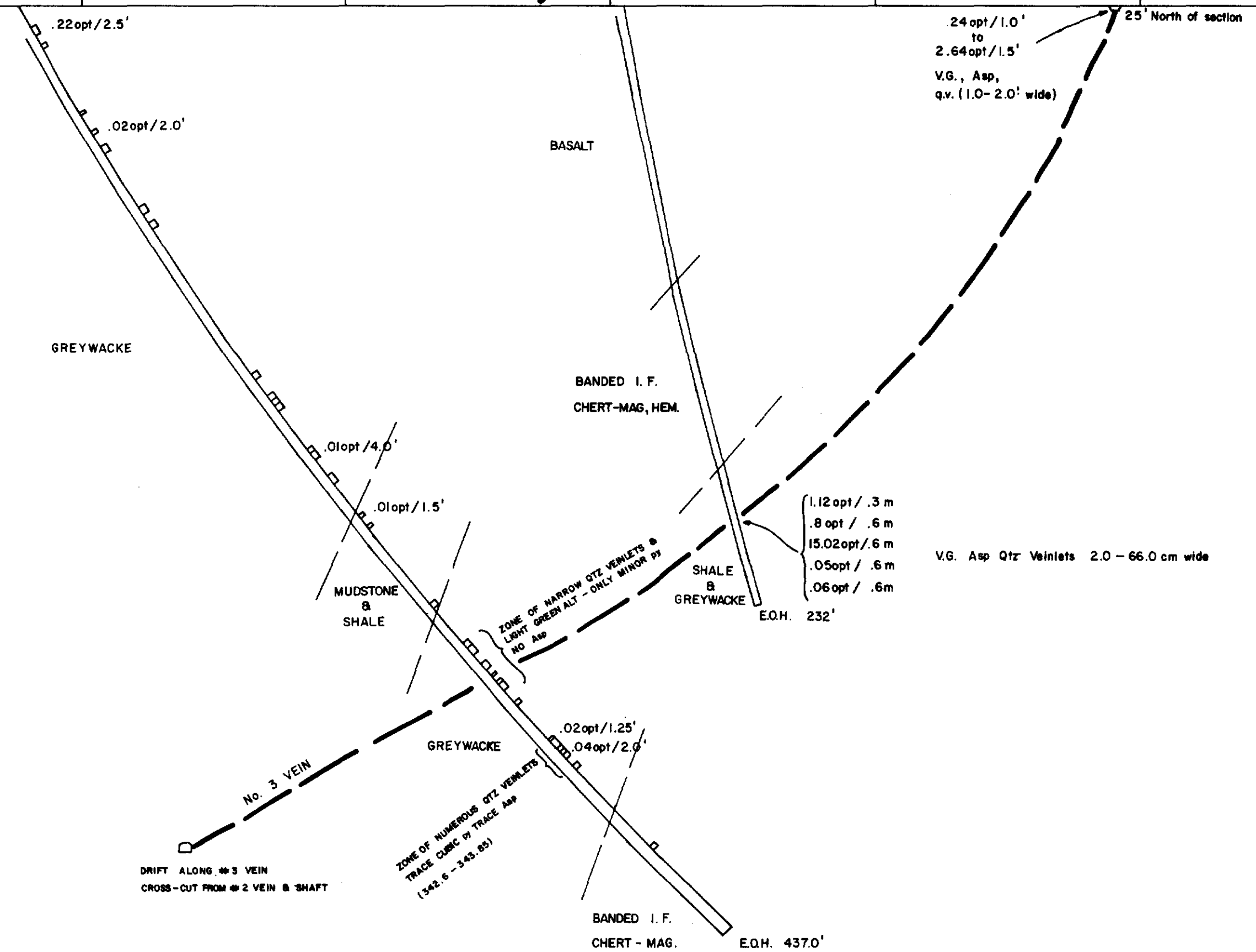
52-1307

WEST

EAST

5800 E 5900 E 6000 E 6100 E 6200 E 6300 E 6400 E

GB-86-1 607-82-5 # 3 VEIN TRENCH



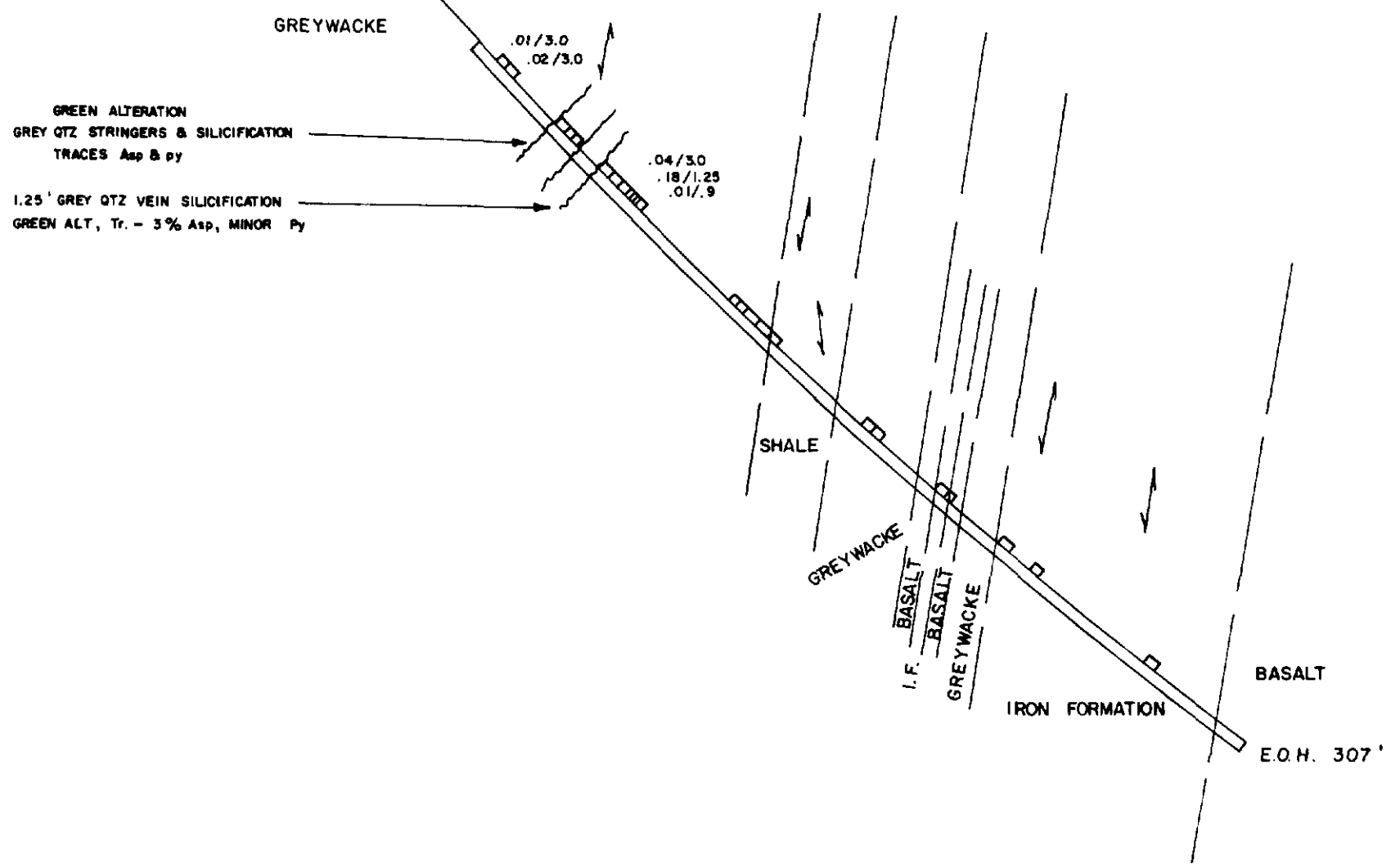
240

REVISED	SECTION 5760 N	
	GB-86-1, 607-82-5	
PROJ. No: 1307	PROJECT: GRAND BAY	
N.T.S.	DRAWN BY: R. K.	DATE: JAN 1968
SCALE:	1" = 40'	
	 NORANDA EXPLORATION Co. LTD. - THUNDER BAY	

SOUTH
62,000
61,000
60,000 nT

NORTH

BL 5500 N
5600 N GB-86-2
5700 N
5800 N
5900 N



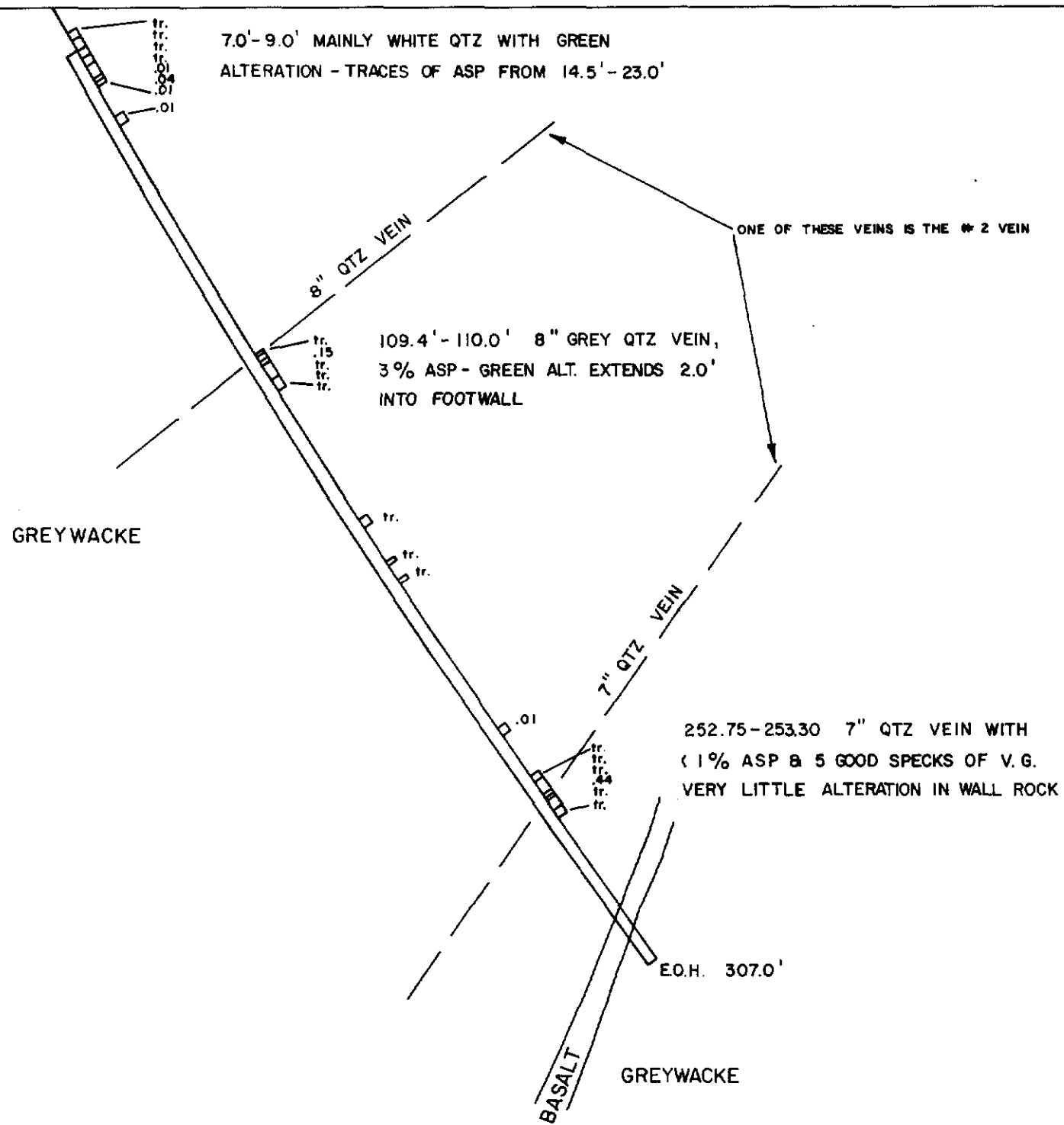
250

REVISED	SECTION 6300 N GB-86-2
PROJ.No: 1307	PROJECT: GRAND BAY
N.T.S.:	DRAWN BY: R.K. DATE: JAN 1986
SCALE: 1" = 40'	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY

WEST
62000
61000
60000 nT

EAST

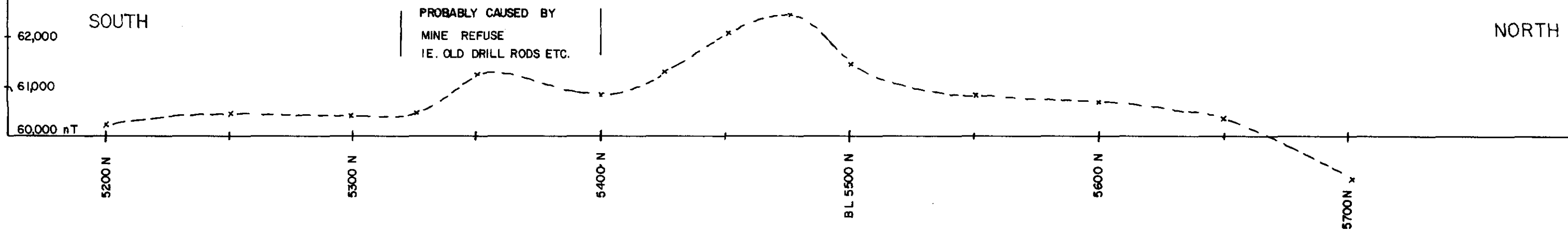
6700 E 6800 E 6900 E 7000 E 7100 E 7200 E



52N08N#0038

260

REVISED	SECTION 5300N	
	DDH# GB-86-3	
PROJ. No: 1B07	PROJECT: GRAND BAY	
N.T.S.	DRAWN BY: R. K.	DATE: FEB 1986
SCALE:		
1" = 40'	NORANDA EXPLORATION Co. LTD. - THUNDER BAY	



81.0 - 85.6, GREY QTZ VEIN
 ASP & GREEN ALTERATION
 PROBABLY THE TOP VEIN IN
 GB-86-3, INTERSECTED, -SUB-
 PARALLEL TO VEIN DIRECTION

GREYWACKE

SHALE
 GREYWACKE

BANDED I.F.

MUDDY MATRIX AT BOTTOM OF HOLE,
 DERIVED FROM BASALT?
 NO MAGNETITE LAST 15' OF HOLE

E.O.H. 427'



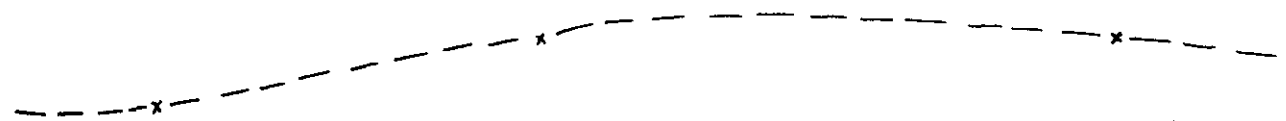
270

REVISED	SECTION 6800 E
	DDH # GB-86-4
PROJ. No.: 1B07	PROJECT: GRAND BAY
N.T.S.	DRAWN BY: R. K. DATE: FEB 1986
SCALE: 1" = 40'	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY

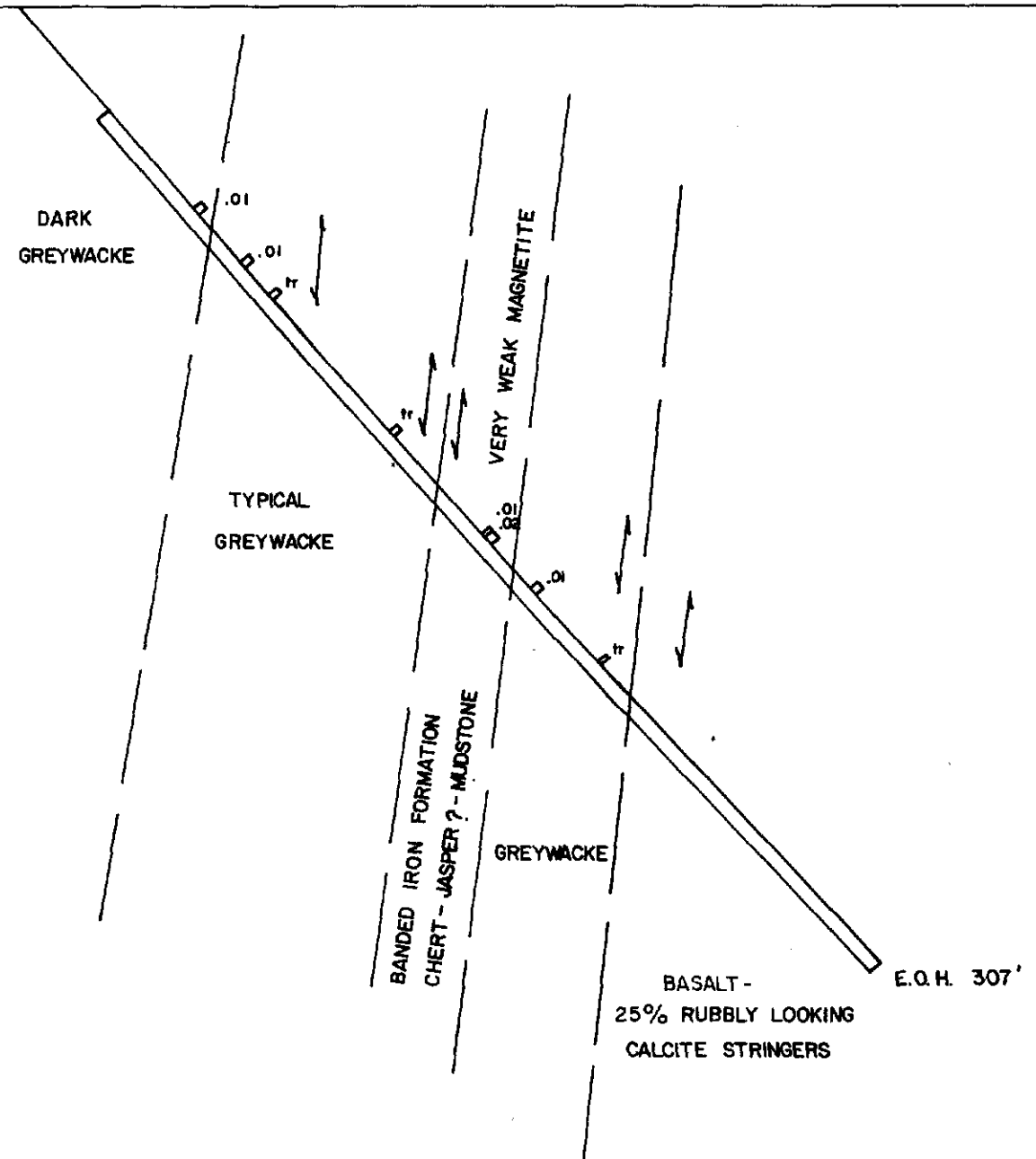
210° Azimuth

30° Azimuth

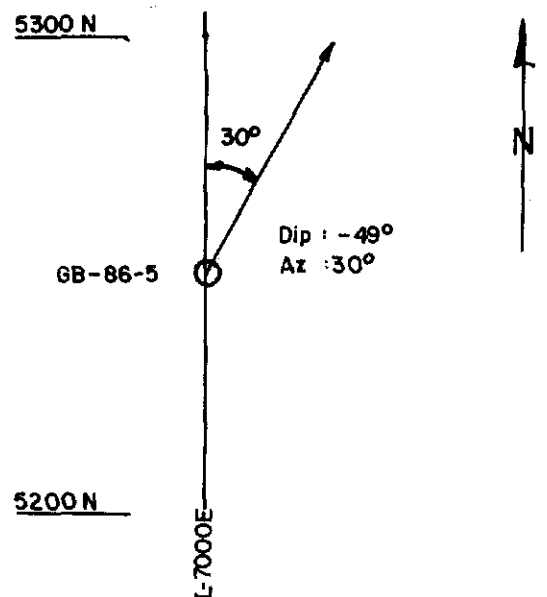
62,000
61,000
60,000 nT



COLLAR : L- 7000 E / 5250 N
GB-86-5



PLAN VIEW



280

REVISED	SECTION 7000 E (30° ROTATION) DDH # GB-86-5
PROJ.No: 1807	PROJECT: GRAND BAY
N.T.S.	DRAWN BY: R. K. DATE: FEB 1986
SCALE: 1" = 40'	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY

WEST

EAST

6200 E 6300 E 6400 E 6500 6600 E 6700 E 6800 E

GB-86-6

607-2-83

OVERBURDEN

SHALE

.16 opt / 1.7 m
SERICITE ALT, COARSE ASP
4" GREY QTZ VEIN

GREYWACKE

11 VEIN

SHALE

1.20' GREY QTZ VEIN, NUMEROUS
SPECKS V.G.

1.40' ALT +2-3% ASP BELOW VEIN

GREYWACKE

tr.
1.19 1.2'
.14 1.4'
.01 2.3'
tr.

SHALE

E.O.H. 337'



52N08NW0038

290

290



REVISED	SECTION: 4227 N
	D.D.H. # GB-86-6
PROJ. No: 1807	PROJECT: GRAND BAY
N.T.S.	DRAWN BY: R. K. DATE: FEB 1986
SCALE:	noranda
1" = 40'	NORANDA EXPLORATION Co. LTD. - THUNDER BAY

WEST

EAST

6150 E

6250 E

6350 E

6450 E

6550 E

6650 E

6750

GB-86-7

OVERBURDEN

GREYWACKE

GREYWACKE

179.5 - 181.1 - GREY QTZ VEIN
1% ASP THROUGHOUT, GREEN ALT
+2-4% ASP IN WALL ROCKS

11 VEIN

E.O.H. 246'



52N08N0036

300



REVISED	SECTION 4127 N D.D.H.# GB-86-7
PROJ No: 1B07	PROJECT: GRAND BAY
N.T.S.	DRAWN BY: R. K. DATE: FEB 1986
SCALE: 1" = 40'	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY

320° AZIM.

140° AZIM

GB-86-8 (8324E / 2510N)

BASALT

SHAFT 15' S.W. OF SECTION

.46 opt / 5.0'

INTERMEDIATE
VOLCANICS

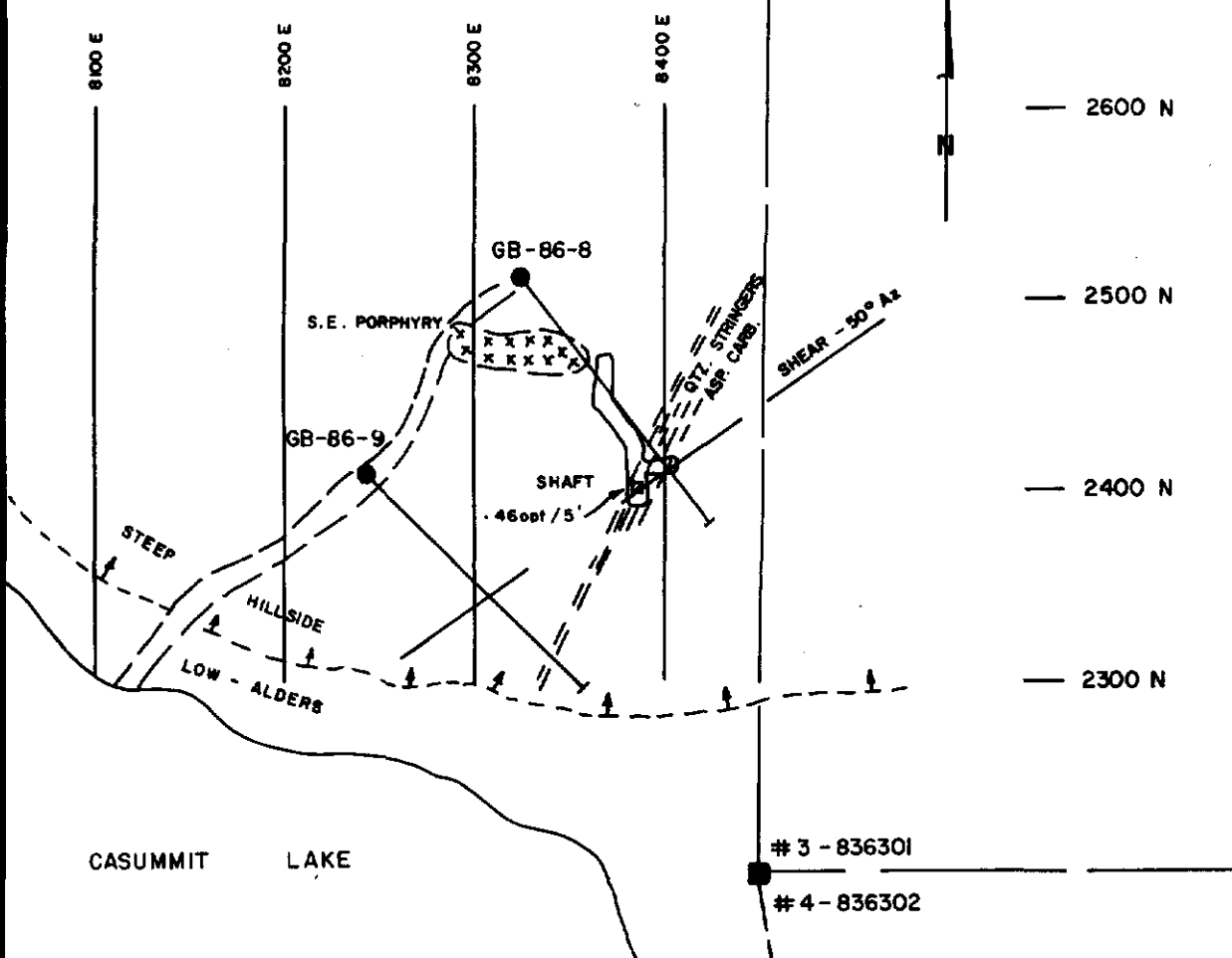
QUARTZ
FELDSPAR
PORPHYRY

INTERMEDIATE
VOLCANICS

E.O.H. 242'

LOCATION MAP
1" = 100'

HOLE LOCATIONS CORRECT WITH RESPECT TO SHAFT &
CLAIM POST - GRID LINES ARE PROJECTED



310

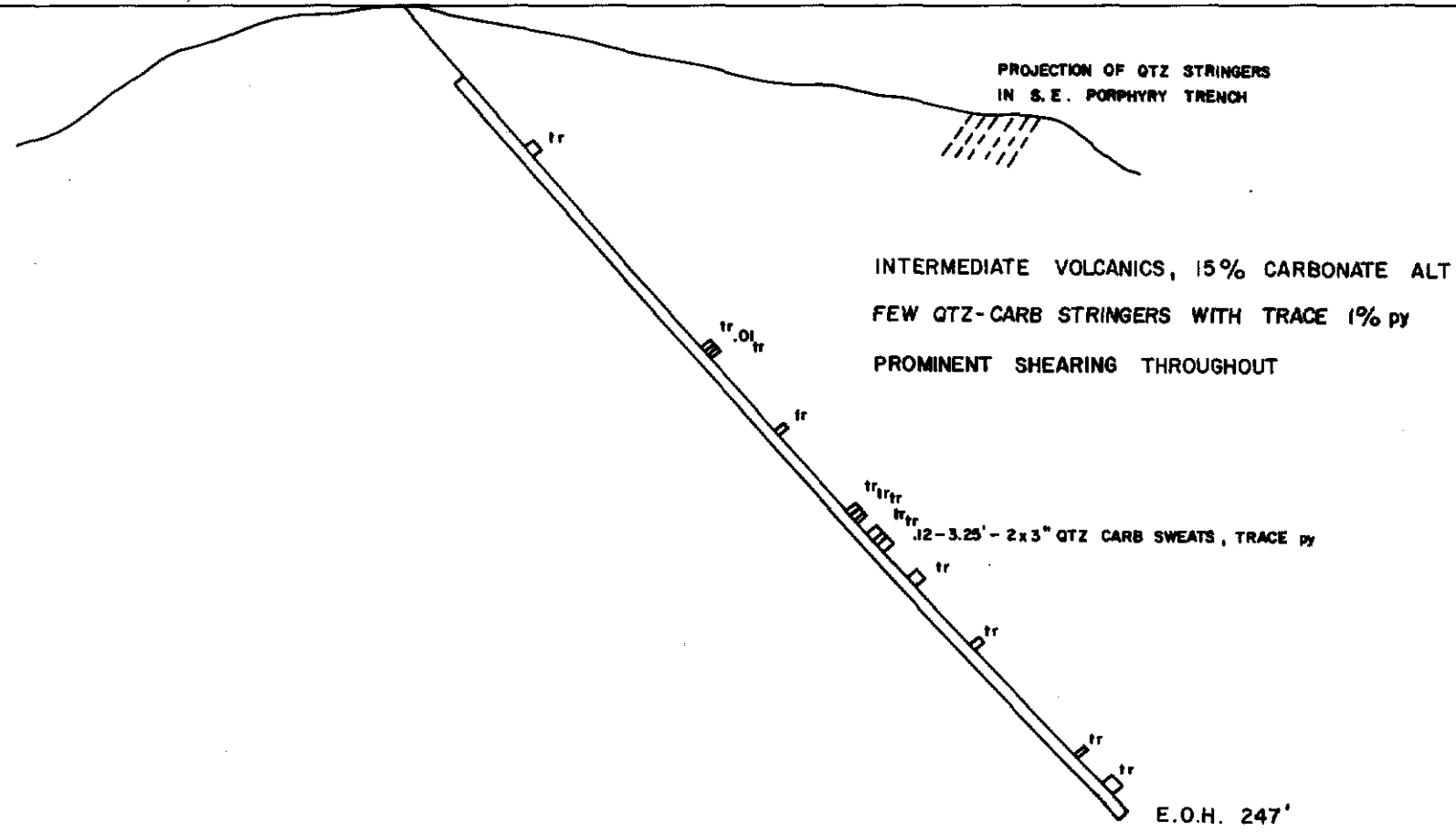


REVISED	DDH # GB-86-8
	SECTION AT 140° Azimuth
	LOOKING NORTH-EAST
PROJ. No. 1B07	PROJECT: GRAND BAY
N.T.S.	DRAWN BY: R. K. DATE: FEB 1986
SCALE: 1" = 40'	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY

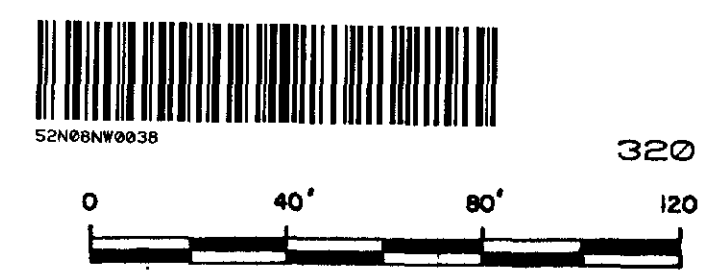
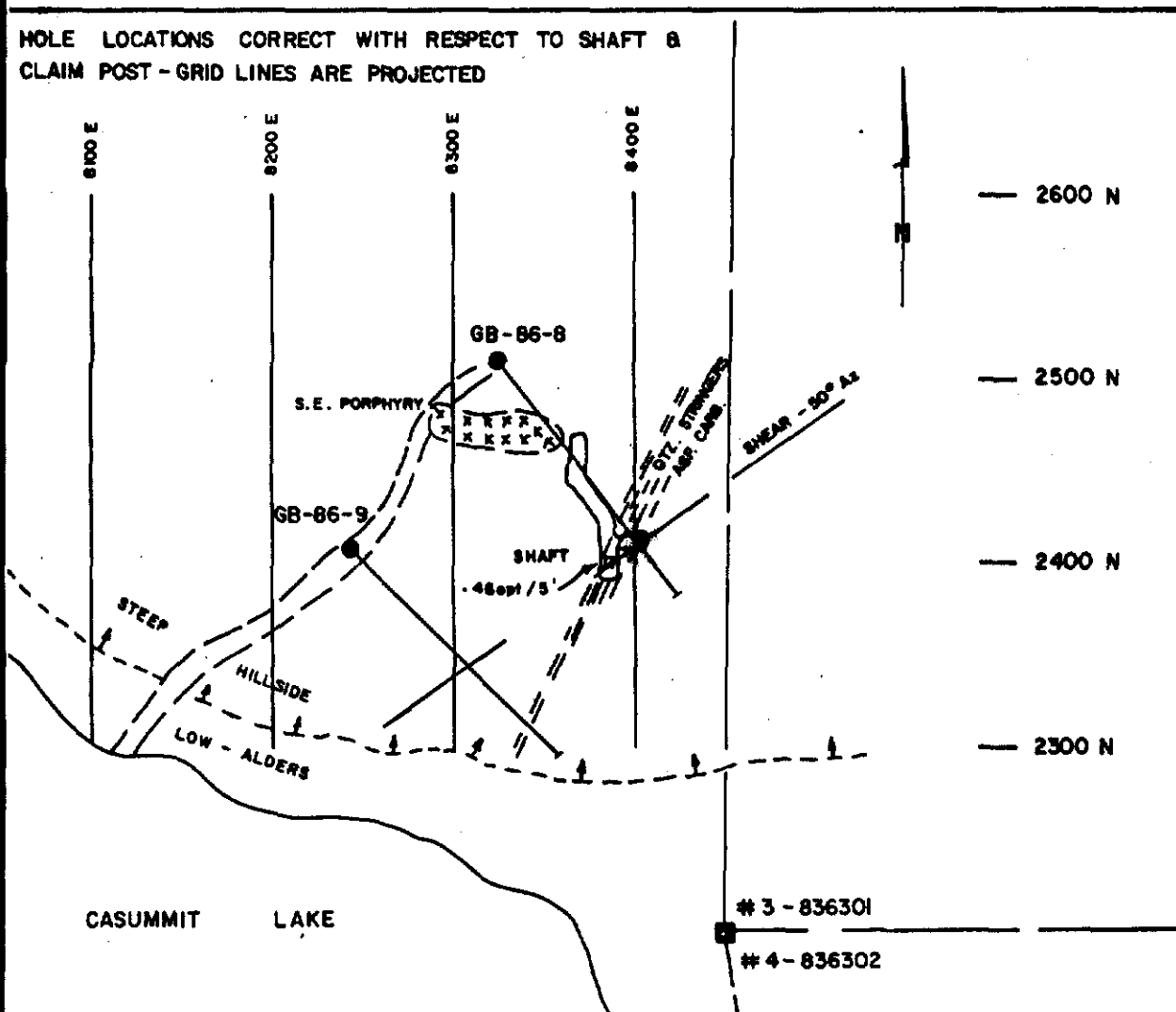
315° AZIM.

135° AZIM.

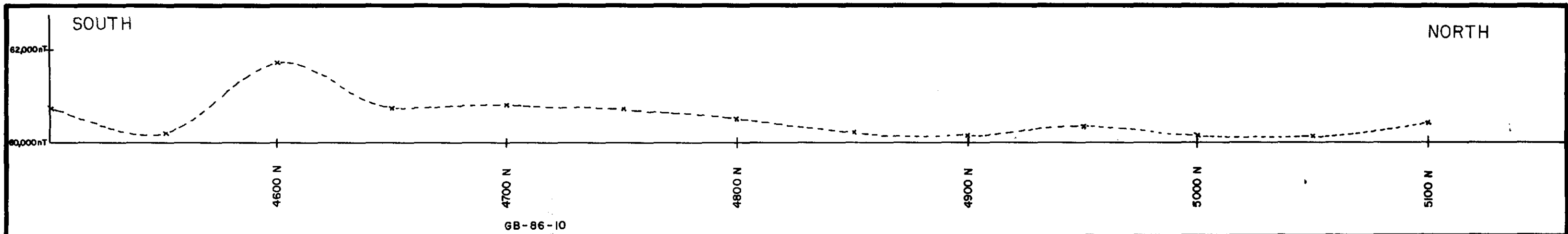
GB-86-9 (8240 E / 2410 N)



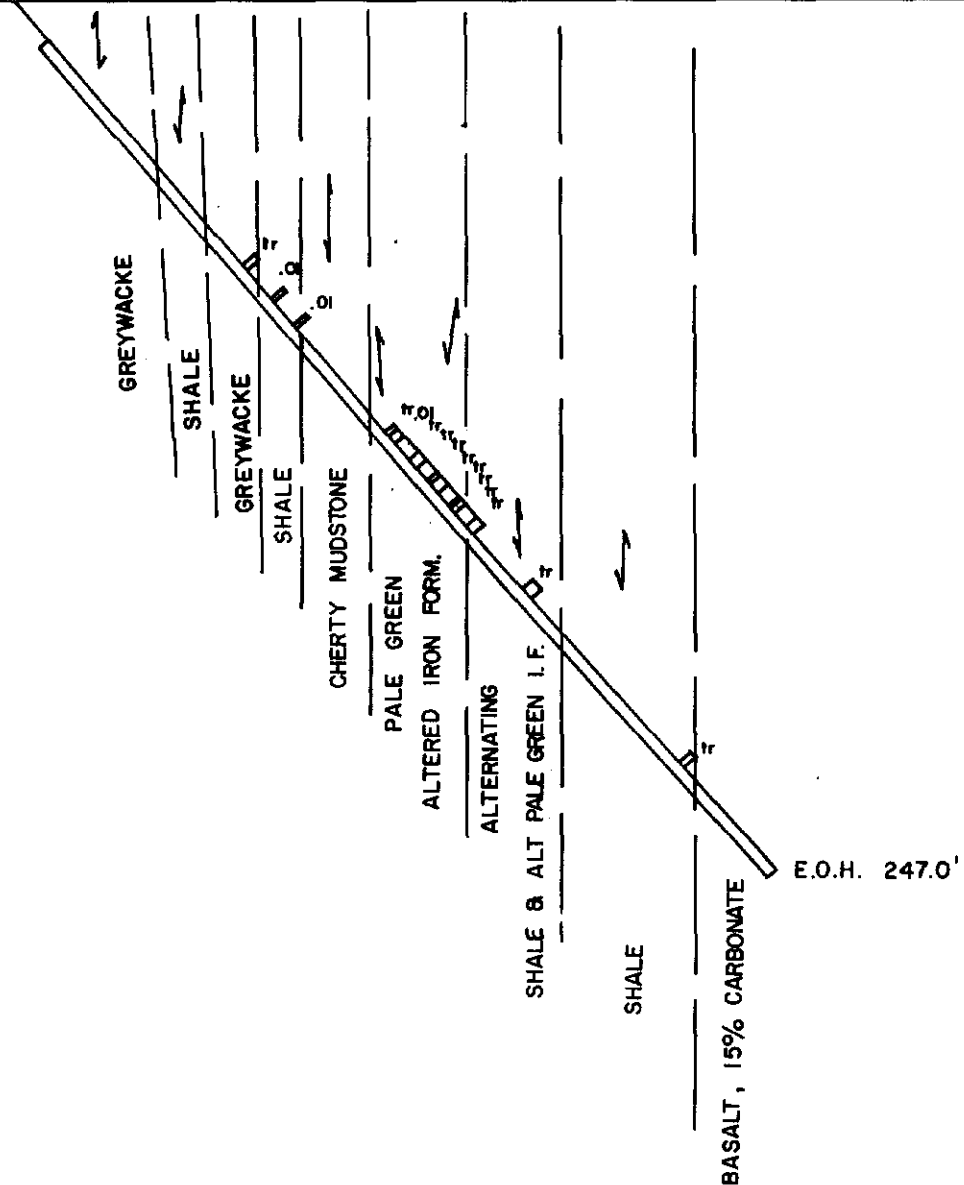
LOCATION MAP
1" = 100'



REVISED	SECTION AT 135° AZIM. LOOKING NORTHEAST D.D.H.# GB-86-9	
PROJ.No: 1B07	PROJECT: GRAND BAY	
N.T.S.	DRAWN BY: R. K.	DATE: FEB 1986
SCALE: 1" = 40'	noranda NORANDA EXPLORATION Co. LTD. - THUNDER BAY	



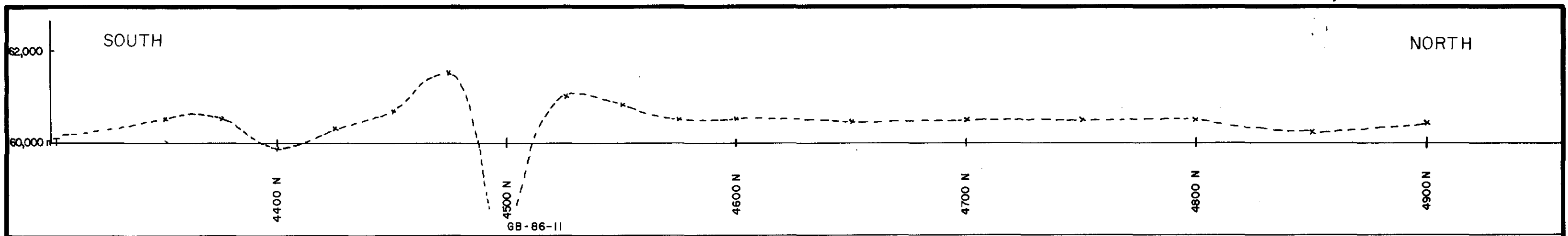
GB-86-10



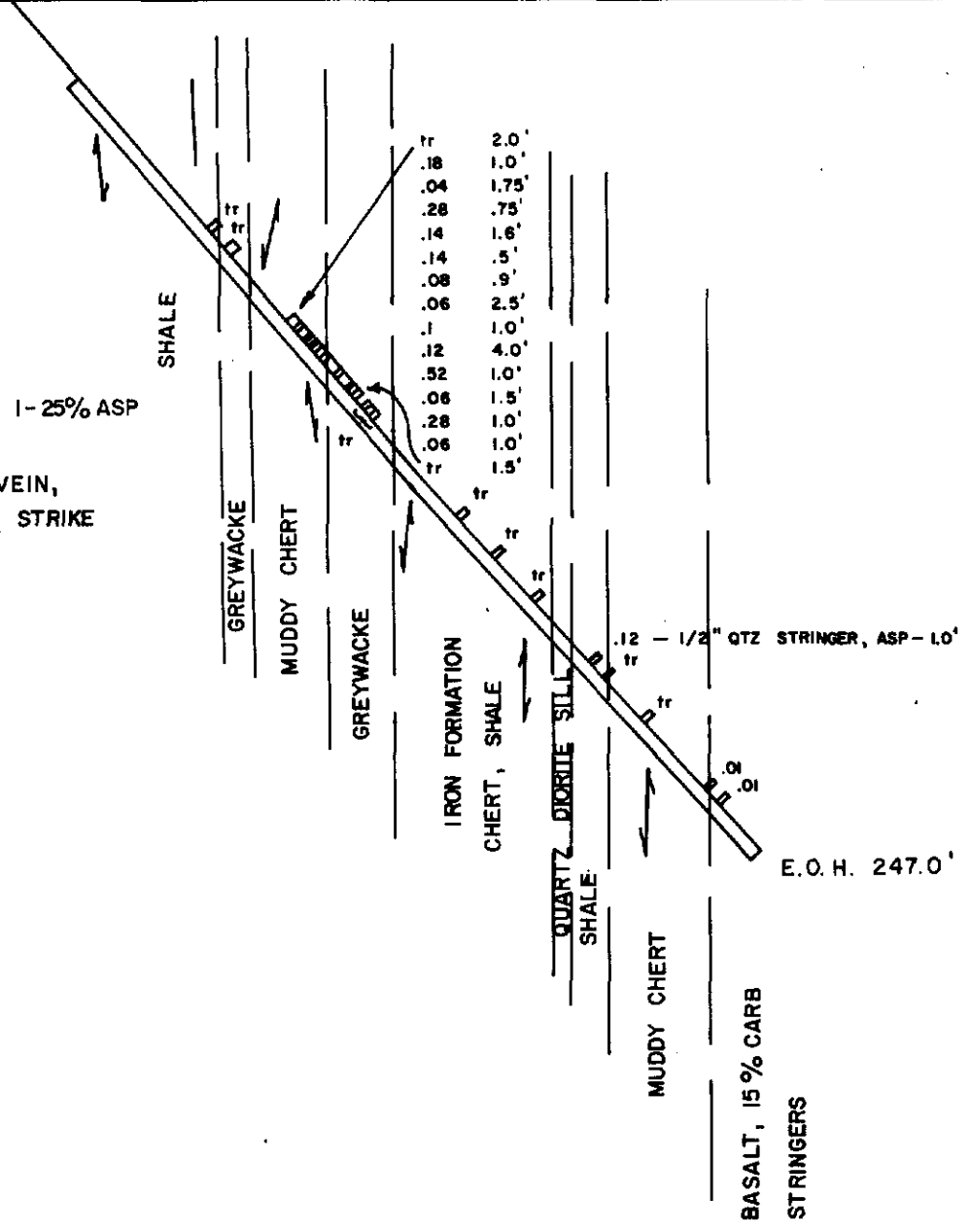
330



REVISED	SECTION 7600 E	
	DDH # GB-86-10	
PROJ. No: 1B07	PROJECT: GRAND BAY	
N.T.S.	DRAWN BY: B. K.	DATE: FEB 1986
SCALE:	noranda	
1" = 40'	NORANDA EXPLORATION CO. LTD. - THUNDER BAY	



110.5' - 132.5' SAMPLED
 - SEVERAL GREYQUARTZ VEINS
 WITH STRONG GREENISH ALT & 1-25% ASP
 - 1 SPECK V.G. AT 129.25'
 THIS IS PROBABLY THE # 8 VEIN,
 INTERSECTED SUBPARALLEL TO STRIKE



340



REVISED	SECTION 7900 E	
	DDH# GB-86-11	
PROJ.No. 1B07	PROJECT: GRAND BAY	
N.T.S.	DRAWN BY: R. K.	DATE: FEB 1986
SCALE:	 NORANDA EXPLORATION Co. LTD. - THUNDER BAY	
1" = 40'		

4600 E

4700 E

4800 E

4900 E

5000 E

5100 E

5200 E

GB-86-12

APPROX No 7 VEIN

GREYWACKE, FEW SHALEY BANDS

APPROX No 6 VEIN

.01

1/4

1/2

10.00 ± 0.5'

E.O.H. 547.0'



52N08NW0038

350



63.4848

REVISED	SECTION 5000 N	
	D.D.H. # GB-86-12	
PROJ. No. 1B07	PROJECT: GRAND BAY	
N.T.S.	DRAWN BY: R. K.	DATE: FEB 1986
SCALE:	noranda	
1" = 40'	NORANDA EXPLORATION Co. LTD. - THUNDER BAY	