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834001 82 -1696

SEARCHED	INDEXED	SERIALIZED	FILED
FEB 1982			
DEPT. OF MINES			
REF. NO. 1040/82			

*DJJ.
Process file*

RENISON LIMITED

ORE RESERVE - ANCHOR MINERALISATION

E.L. 9/76

SEPTEMBER 1979

OPEN FILE

SUBMITTED BY:

K. Wells

Senior Exploration Geologist

82-1696.

SUMMARY

Utilising a bulk grade intersection cutoff $\geq 0.2\%$ Sn an indicated Ore Reserve for the Anchor deposit has been calculated at:

1,960,000 tonnes x 0.40% Sn . trending N.E. from the present open cut.

60,000 tonnes x 0.36% Sn in the floor of the present open cut

Total Indicated Reserve = 2,020,000 tonnes x 0.39% Sn

— FIGURES —

- FIG. 1 Footwall Contours - Mineralisation (BT 422)
 2 Hangingwall Contours - Mineralisation (BT 423)
 3 N.E. Sections & Proposed Open Cut (BT 421)
 4 NE Sections 00NE to 46NE (BT 436 → 443)

} Transparencies Held

1. INTRODUCTION

Following some problems with the location of mining outlines relating to the higher grade lens(es) within the Anchor mineralised zone; all the data was re-evaluated and the tonnage and grade of the higher grade mineralisation recalculated.

2. RESERVE ESTIMATION

The reserve estimation was calculated as follows:

All the drill hole intersections in the vicinity of the Anchor Open Cut were re-examined and assay intervals recalculated to outline bulk assay intersections $\geq 0.2\%$ Sn (Table 1). The R.L.'s of the Footwall and Hangingwall intersections, of what is considered to be one body, were then plotted on separate, 1:500 scale, plans and Footwall and Hangingwall contours of the body constructed (Figs 1 and 2). From these contours N.W. - S.E. sections were drawn up at 20m intervals (Fig. 3). A grid was laid over each section and the area of "ore" on each section measured. Tonnages were then calculated for each section as follows:

Area of "ore" x 20m (distance between sections) x 2.6 (S.G.)

The tonnages on each section were then totalled (Table 2)

To determine the average grade, the following calculation applied.

$$\text{Average Grade} = \frac{\sum \text{Drill Hole intersections} \times \text{Grade}}{\sum \text{Drill Hole Intersections}}$$

The above method gave an Indicated Ore Reserve of 1,960,000 tonnes at 0.4% Sn. It should be noted that this reserve is a geological reserve, no allowance has been made for dilution and no lower thickness limit has been applied

DRILL HOLE INTERSECTIONS ANCHOR MINE AREA

HOLE NO.	ORE INTERSECTION	THICKNESS + GRADE	COMMENTS
B.T. 68	32 - 33m	1m x 1.9% Sn	
B.T. 67	(61 - 63m	2m x 0.32% Sn)	Beneath "main body"
B.T. 66	22 - 55m	33m x 0.45% Sn	
B.T. 65	40 - 49m	9m x 1.05% Sn	
B.T. 64	29.7 - 57m	27m x 0.25% Sn	Includes 11m low grade intersection.
	(63 - 69m	6m x 0.32% Sn)	Both intersections
	(80 - 83m	3m x 0.36% Sn)	Beneath "main body"
B.T. 63	(50 - 60m	10m x 0.33% Sn)	Above "main body"
	81 - 84m	3m x 0.45% Sn	
B.T. 62	86 - 100m	14m x 0.28% Sn	
	(144.5 - 146.5m	2m x 0.44% Sn)	Beneath "main body"
B.T. 61	Barren		
B.T. 60	Barren		
B.T. 59	(0 - 11m	11m x 0.29% Sn)	In floor of o/c not "main body".
B.T. 58	Barren		
B.T. 57	Barren		
B.T. 56	Barren		
B.T. 55	(0 - 3m	3m x 0.35% Sn)	"
B.T. 54	Barren		
B.T. 53	Barren		
B.T. 52	0 - 77m	+75.5m x 0.31% Sn	
	(89 - 93m	4m x 0.41% Sn)	Related to irregular base of ore. Not inc. in reserve.
	(168 - 73m	4m x 0.67% Sn)	
	(185 - 188m	3m x 1.13% Sn)	
	(195 - 208m	13m x 0.65% Sn)	Pegmatitic zone not in reserve.
B.T. 51	0 - 68m	68m x 0.35% Sn	
B.T. 50	Barren		
B.T. 49	0 - 12m	12m x 0.42% Sn	In floor of o/c not "main body"
B.T. 48	49.5-52.5m	3m x 0.35% Sn	
B.T. 47	Barren		
B.T. 46	Barren		
B.T. 45	Barren		
B.T. 44	31.5m - 45.5m	14m x 0.33% Sn	
B.T. 43	Barren		
B.T. 42	47.7 - 75.7m	28m x 0.48% Sn	
	(83.7 - 110.7m	27m x 0.66% Sn)	Beneath "main body" ?

HOLE NO.	ORE INTERSECTION	THICKNESS + GRADE	COMMENTS
B.T. 41	POIMENA AREA		
B.T. 40	" "		
A. 1	Barren		
B.T. 39	Barren		
B.T. 38	Barren		
B.T. 37	Barren		
B.T. 36	Barren		
B.T. 35	108.2 - 175.3m	63m x 0.30% Sn	
B.T. 34	Barren		
B.T. 33	Barren		
B.T. 32	Barren		
B.T. 31	Barren		
B.T. 30	Barren		
B.T. 29	Barren		
B.T. 28	Barren		
B.T. 27	0 - 4.3m	4.3m x 0.31% Sn	
B.T. 26	41.1 - 42.7m	1.5m x 0.59% Sn	
B.T. 25	77.7 - 94.5m	17m x 0.26% Sn	
B.T. 24	Barren		
B.T. 23	73.2 - 79.2m	6m x 0.77% Sn	
B.T. 22	68.6 - 71.6m	3m x 0.32% Sn	
B.T. 21	91.0 - 94.0m	3m x 0.42% Sn	
B.T. 20	56.4 - 59.4m	3m x 0.37% Sn	
B.T. 19	73.2 - 85.3m	12m x 0.34% Sn	
B.T. 18	21.3 - 24.4m	3m x 0.20% Sn	
B.T. 17	61.0 - 81.0m	20m x 0.25% Sn	
B.T. 16	26.1 - 35.1m	9m x 0.27% Sn	
B.T. 15	18.3 - 24.4m	6m x 0.77% Sn	
B.T. 14	29.0 - 44m	15m x 0.31% Sn	
B.T. 13	25.9 - 44.1m	18m x 0.28% Sn	
B.T. 12	25.9 - 56.3m	30m x 0.47% Sn	
B.T. 11	45.7 - 51.8m	6m x 0.33% Sn	
B.T. 10	32.0 - 36.5m	4.5m x 1.52% Sn	
B.T. 9	27.4 - 57.9m	30.5m x 0.35% Sn	Depends 1 high assay on H.W. plus 2 high assay on F.W.
B.T. 8	Barren		
B.T. 7	24.3 - 39.6m	15m x 0.87% Sn	
B.T. 6	28.9 - 47.2m	18m x 0.33% Sn	
B.T. 5	Barren		
B.T. 4	3.6 - 15.2m	11.6m x 0.24% Sn	Hole stopped in mineralisation
B.T. 3	+6m(channel) - 4m	10m x 0.71% Sn	
B.T. 2	+5m(sample) - 0(collar)	5m x 0.94% Sn	
B.T. 1	9.14 - 15.54m	6m x 0.54% Sn	Hole stopped in mineralisation

TABLE 2

ORE RESERVE ESTIMATION - ANCHOR MINERALISATION (CUT OFF 0.2% Sn)

SECTION NO.	AREA (Sq. Metres)	THICKNESS(m)	VOLUME(cu m)	TONNES(S.G=2.6)
40 N.E.	72	10	720	1872
60 N.E.	428	20	8560	22256
80 N.E.	302	20	6040	15704
100 N.E.	651	20	13020	33852
120 N.E.	948	20	18960	49296
140 N.E.	954	20	19080	49608
160 N.E.	2477	20	49540	128804
	201	10	2010	5226
180 N.E.	3347	20	66940	174044
200 N.E.	3236	20	64720	168272
220 N.E.	2659	20	53180	138268
240 N.E.	1854	20	37080	96408
260 N.E.	1296	20	25920	67392
280 N.E.	1347	20	26940	70044
300 N.E.	3059	20	61180	159068
320 N.E.	2631	20	52620	136812
340 N.E.	2201	20	44020	114452
360 N.E.	1786	20	35720	92872
380 N.E.	1672	20	33440	86944
400 N.E.	1756	20	35120	91312
	36	10	360	936
420 N.E.	1763	20	35260	91676
440 N.E.	2508	20	50160	130416
460 N.E.	1323	10	13230	34398

TOTAL = 1,959,932 tonnes

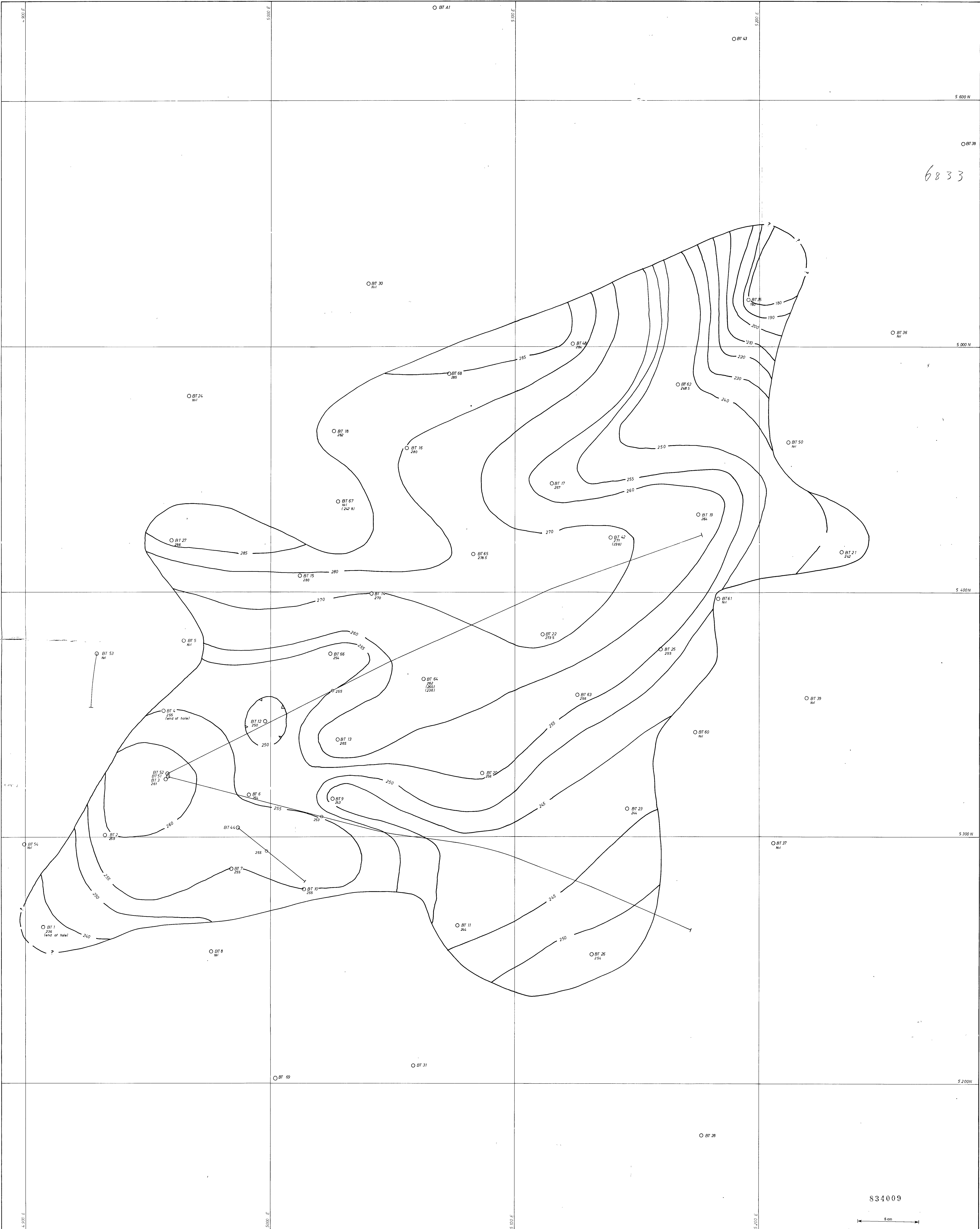
3. COMMENTS/ADDITIONAL ORE

- 1) The indicated reserve outlined above refers to a single body trending N.E. from the present Anchor Open Cut.
- 2) Outside this body are several ore grade intersections, both above and below the body not included in the reserve (Table 1). The main intersection in this category is 27m (83.7 - 110.7m) x 0.66% Sn in B.T. 42 below the "main body". Examination of Section 320 N.E. suggests that this could be correlated with a zone of 13m x 0.65% Sn intersected in flat hole B.T. 52. The B.T. 42 intersection could also conceivably be included in the main body and although this would then include 7m of barren material, the total intersection would still bulk out at 63m x 0.51% Sn and greatly add to the tonnage on Section 320 N.E. and adjoining sections.
- 3) Although the base of the mineralisation on the sections is shown as even, the individual drill hole intersections suggest that in places it is in fact very irregular. The numerous ore grade intersections in flat hole B.T. 52 below the main mineralised zone are possibly due to an uneven base. The footwall intersections in B.T. 51 and B.T. 9 are only 9m apart but are 10m different in R.L.
- 4) In terms of grade the mineralisation is also obviously very irregular both laterally and vertically, e.g. B.T. 9. The problems previously encountered trying to define higher grade lenses are probably due to this irregularity. Some barren holes very close to the "ore" boundary, e.g. B.T. 61, may in fact have intersected low grade zones and have further "higher grade" material beyond them.
- 5) The "ore" is open in several directions, particularly to the N.E. and S. Several (of the Aberfoyle) holes appear to have not been drilled deep enough: Namely B.T. 36 (section 460 N.E.) B.T. 51 and 4 (Sections 40 N.E. and 140 N.E. respectively) which both stopped in mineralisation, and B.T.'s 7, 31 (Section 120 N.E.), 10 (Section 140 N.E.) and 9 (Section 160 N.E.) which stopped in either lower tongues of coarse-grained granite or did not penetrate far enough into the fine-grained granite; B.T. 38 (N.E. of the mineralised zone) may also fall into this category.

- 6) In addition to the mineralisation in and around the "main body" outlined thus far, a further "pod" outcrops in the floor of the open cut where it is intersected by d.d.h.'s B.T. 49, 55 and 59 (Table 1). A reserve of 60,000 tonnes x 0.36% Sn is inferred (from the 1:1000 plan) however, the outer limits of this ore are not yet adequately defined.
- 7) Further drilling is required to confirm the ore boundaries, grade and inferred tonnage of both the "main body" and the "ore" beneath the present open cut. Outside of these two "blocks" the prospects for adding to the "ore" tonnage in the general vicinity of the Anchor Open Cut are considered to be favourable.

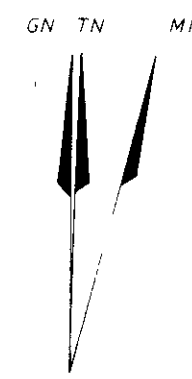
K. Wells

14th September, 1979

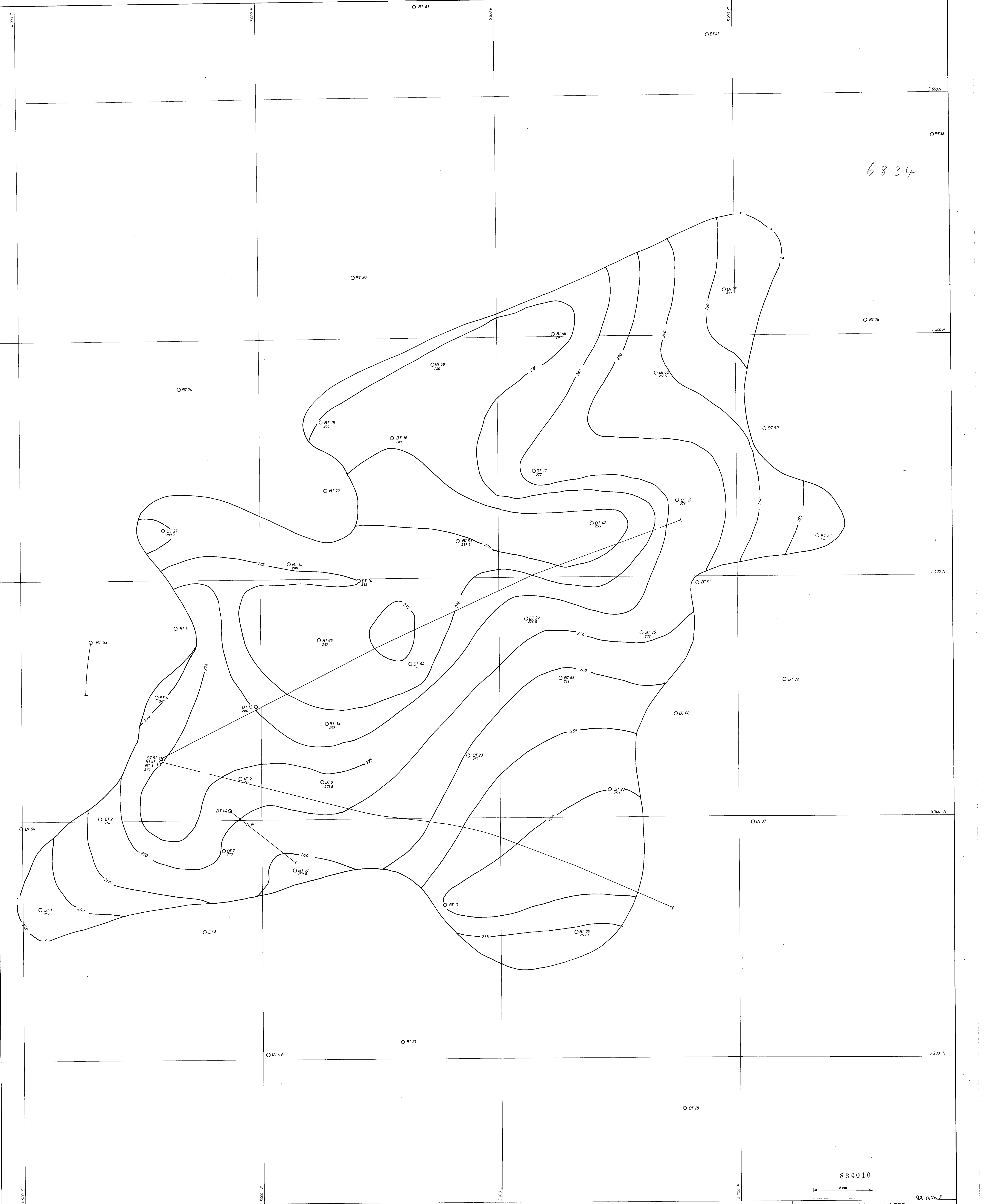


NB Significant intersections beneath main zone of mineralisation eg BT 42, 52, 64 and 67

○ BT 20 D a h and number
256 R/L footwall intersection
(235) R/L footwall of lower core of mineralisation not included

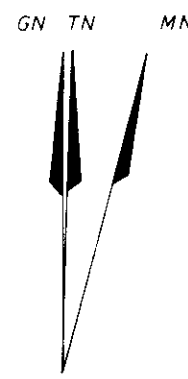


RENISON LIMITED		32-1636 R
ANCHOR MINE		
FOOTWALL CONTOURS - MINERALISATION		
0.2% Sn CUT - OFF		
DRAWN BY	K Wells	SCALE 1:500 METRES
DRAUGHTSMAN	J Matthews	10 0 10 20
DATE	Sept '79	
REVISIONS		
DRAWING NO		BT 422

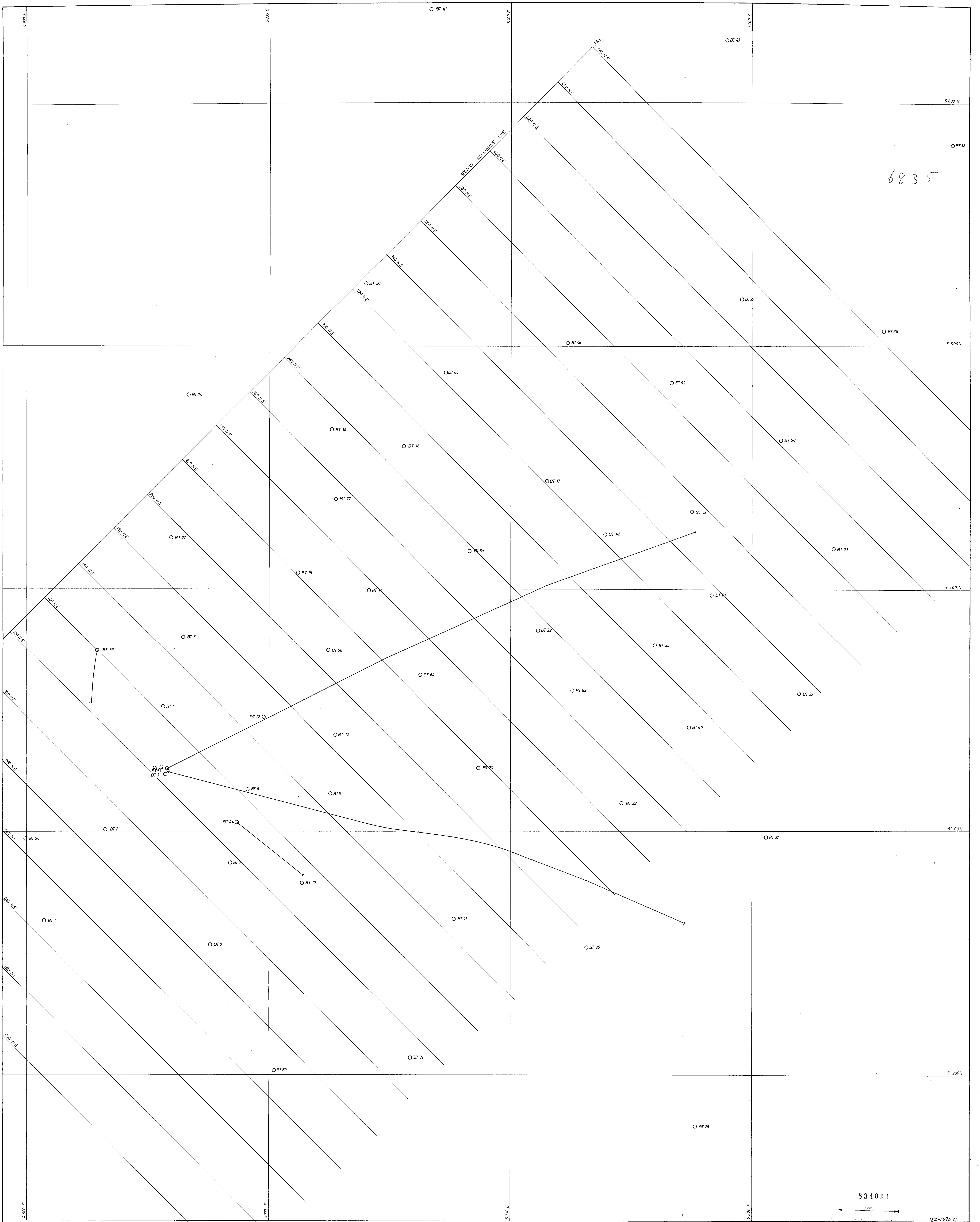


NB Significant intersections in pegmatite above main mineralised zone, eg BT 63

BT 23 D d.h. and number
250 RL of hangingwall



834010	
5 cm	
82-496 R	
RENISON LIMITED	
ANCHOR MINE	
HANGINGWALL CONTOURS - MINERALISATION	
0.2% Sn CUT-OFF	
DATE	SCALE 1:500 METRES
REVISIONS	DRAWING No
	BT 423



6835

834011

5m

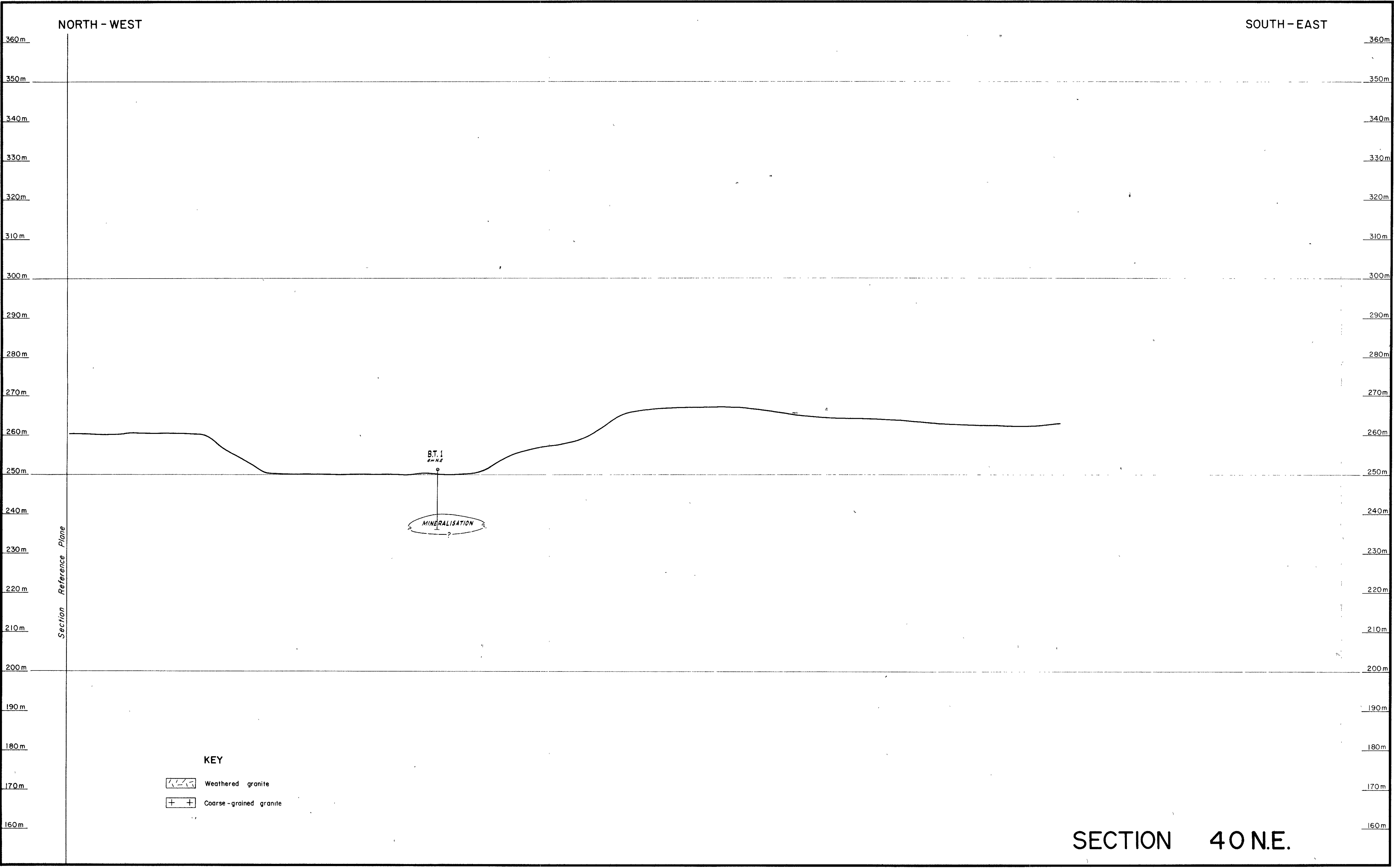
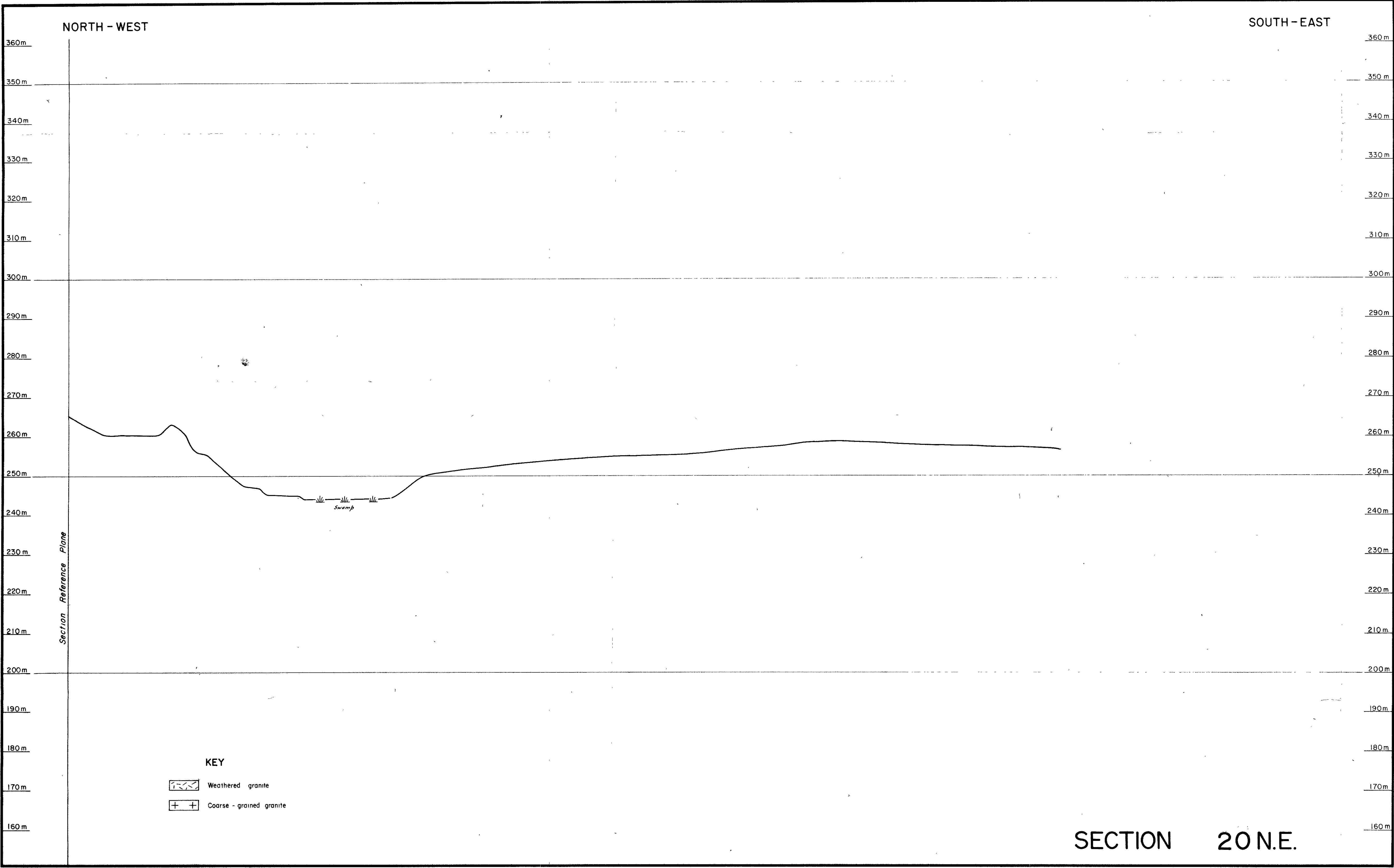
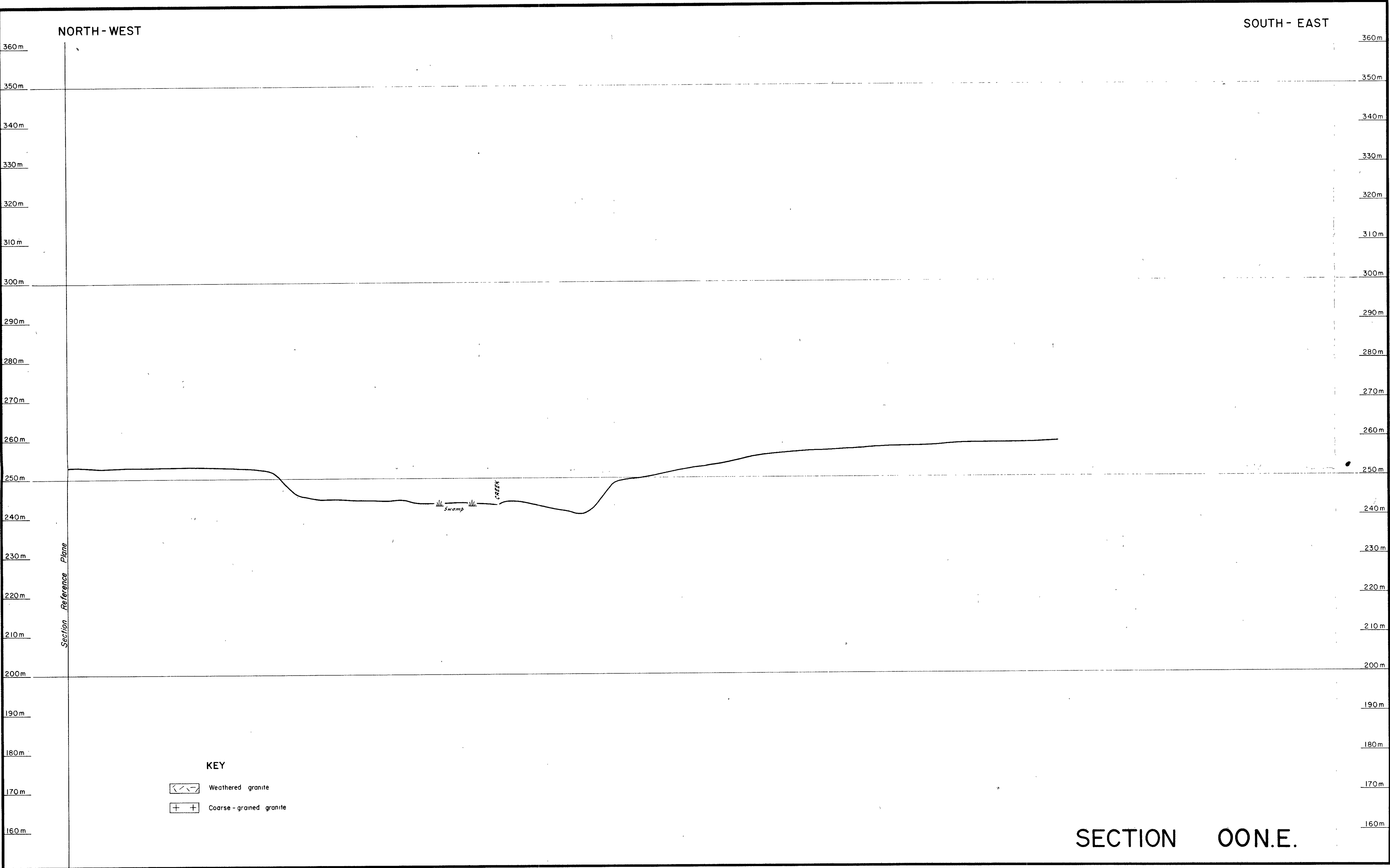
22-1696 R

RENISON LIMITED

ANCHOR MINE
NORTH EAST CROSS SECTIONS

GEOLOGIST	K. Wells	SCALE	1:500 METRES
DRAUGHTSMAN	J. Matthews		
DATE	Sept '79		
REVISIONS			
		DRAWING No	BT 421

FIG. 3

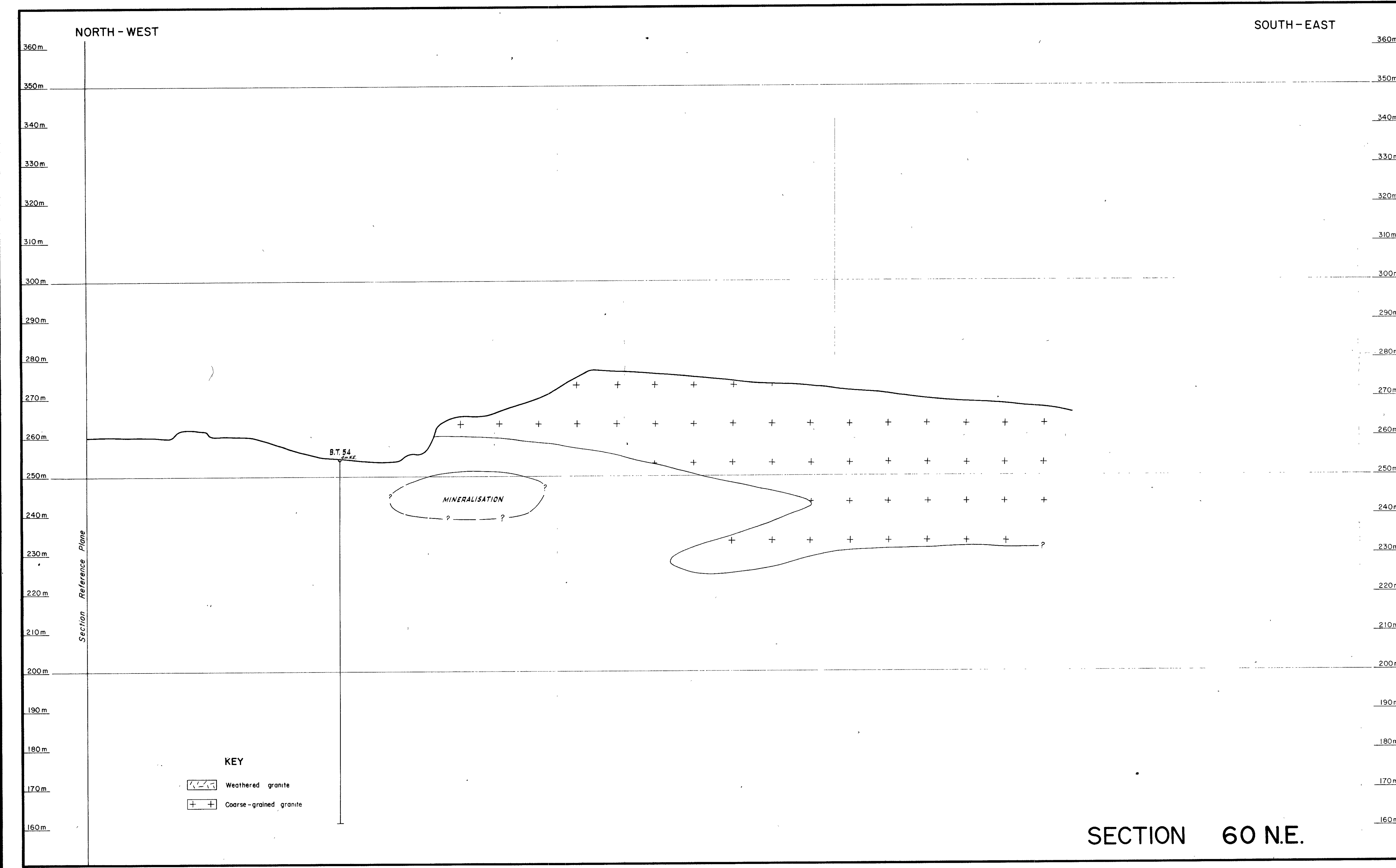
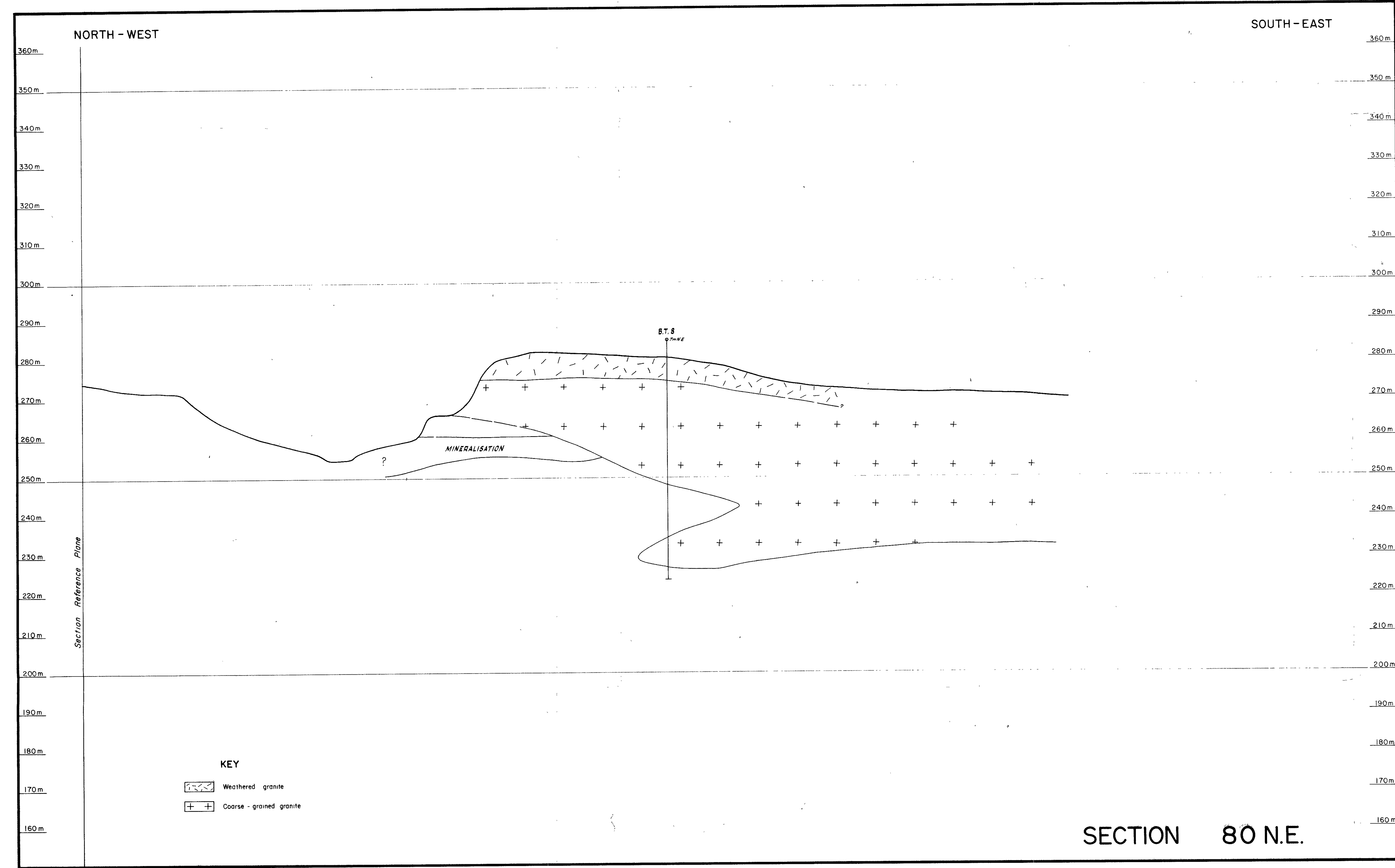
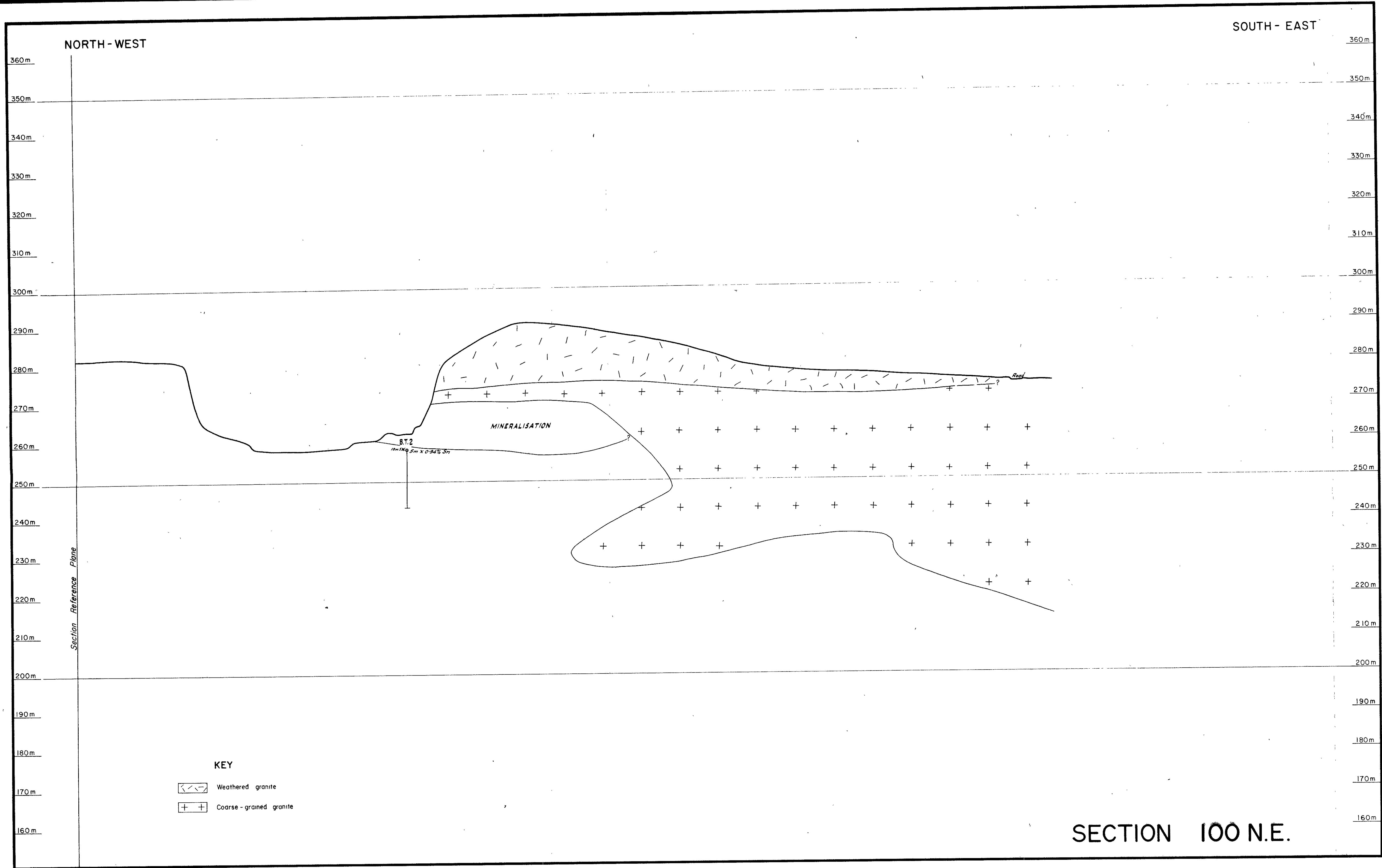


834012

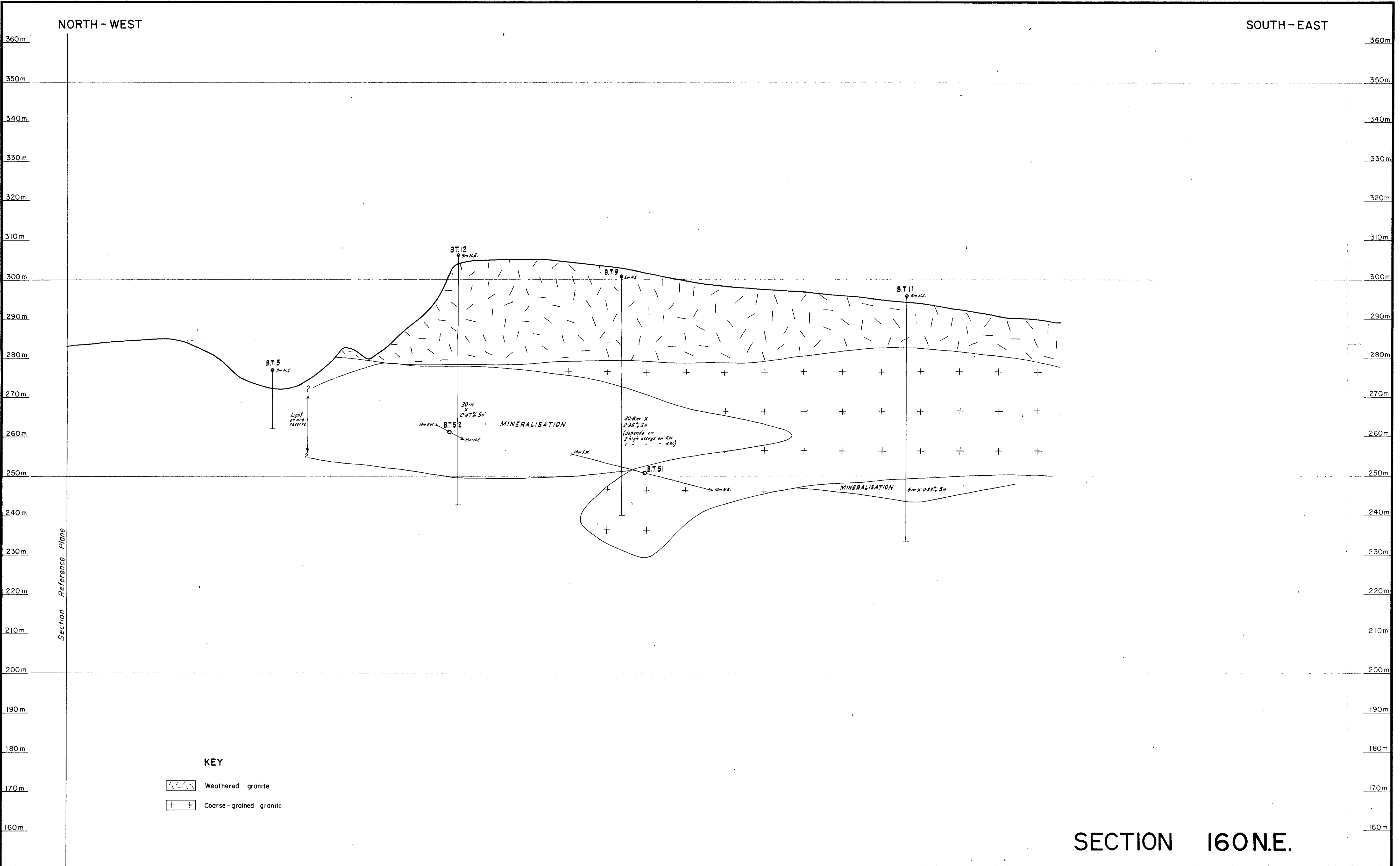
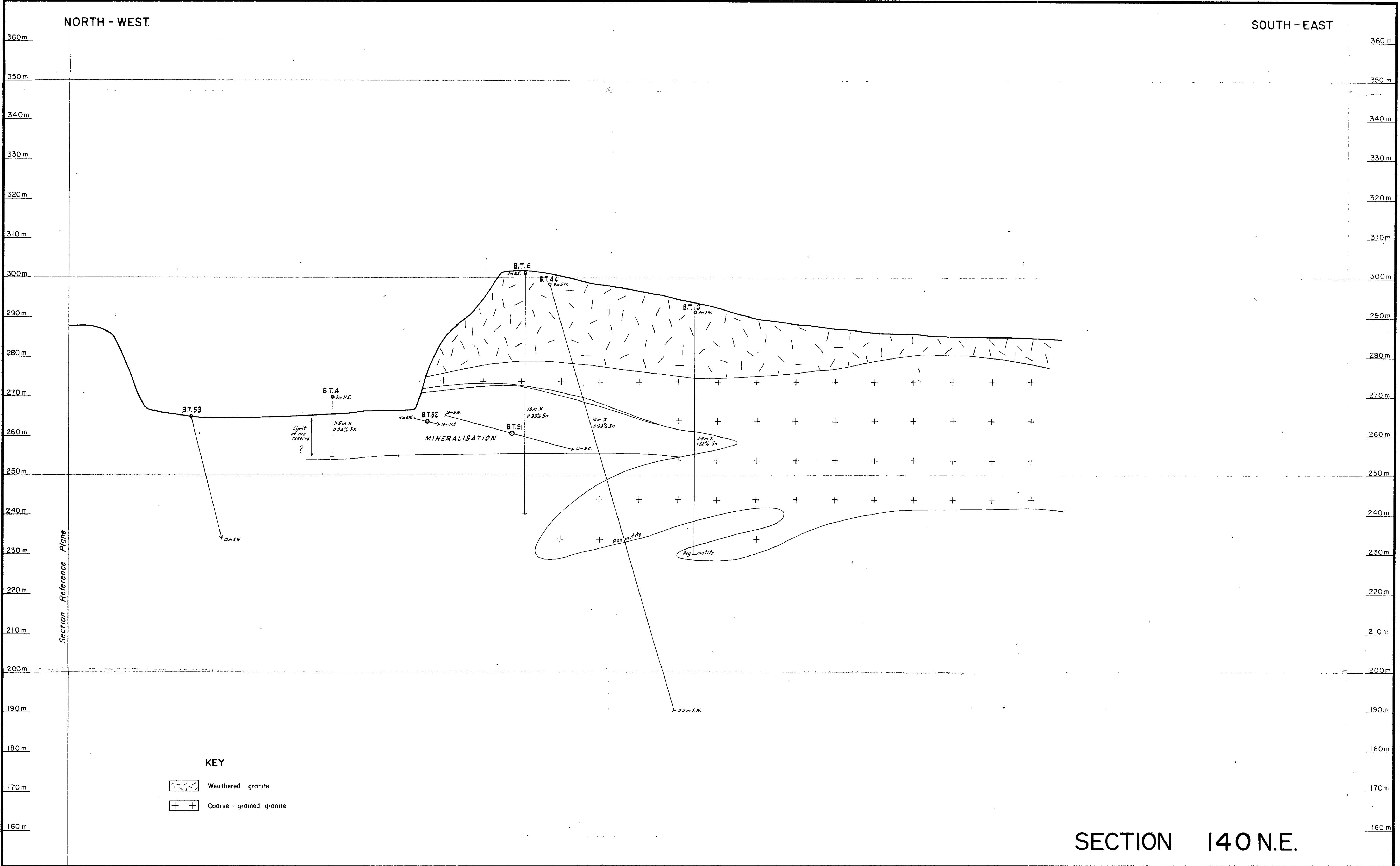
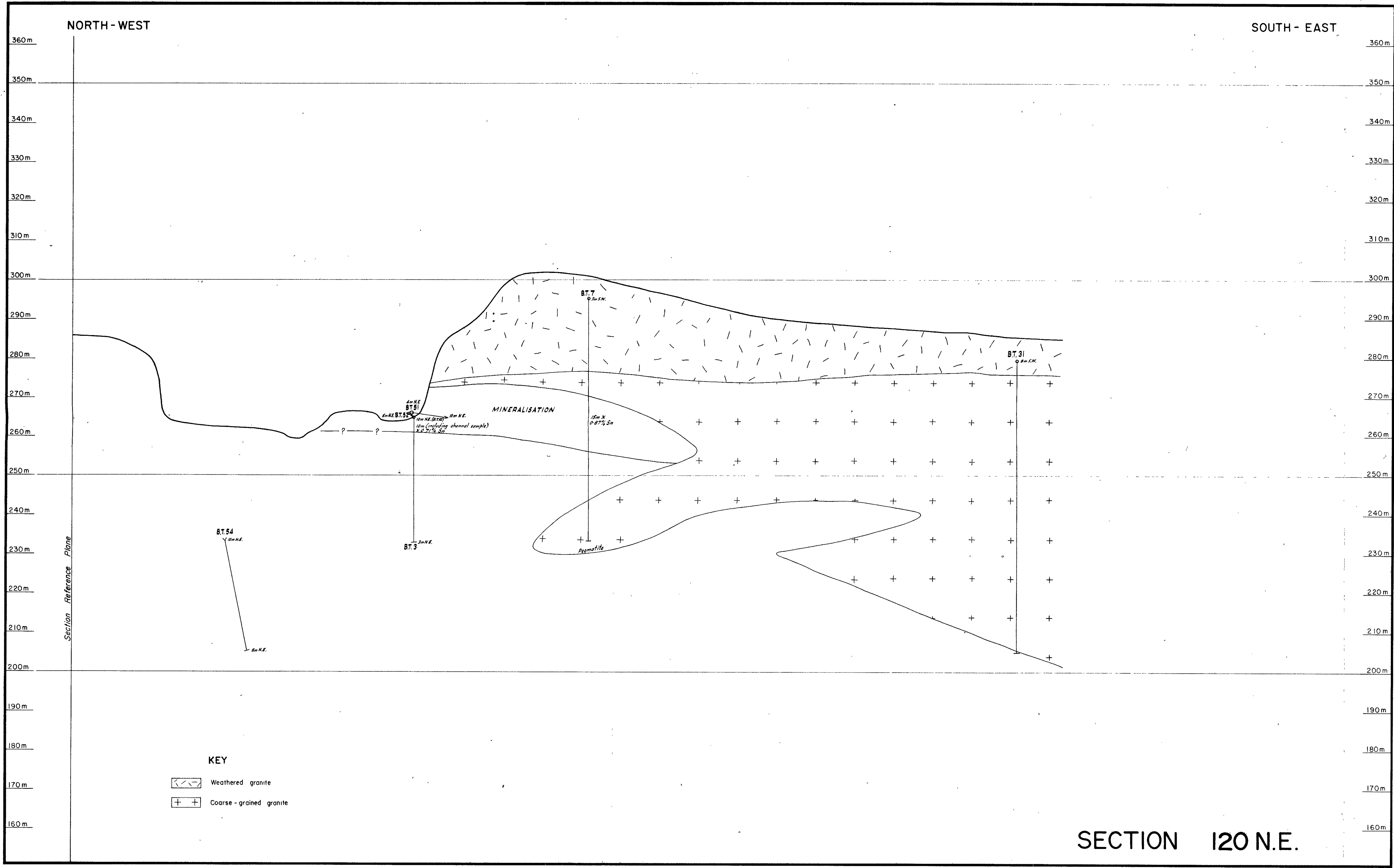
5m

22-1636.2

RENISON LIMITED	
E.L. 9/76 BLUE TIER AREA	
ANCHOR MINE - N.E. SECTIONS	
GEOLOGIST K. Wells	SCALE 1:500 METRES
DRAUGHTSMAN T.G.D.S.	
DATE Sept 1979	
REVISIONS	DRAWING No BT 436

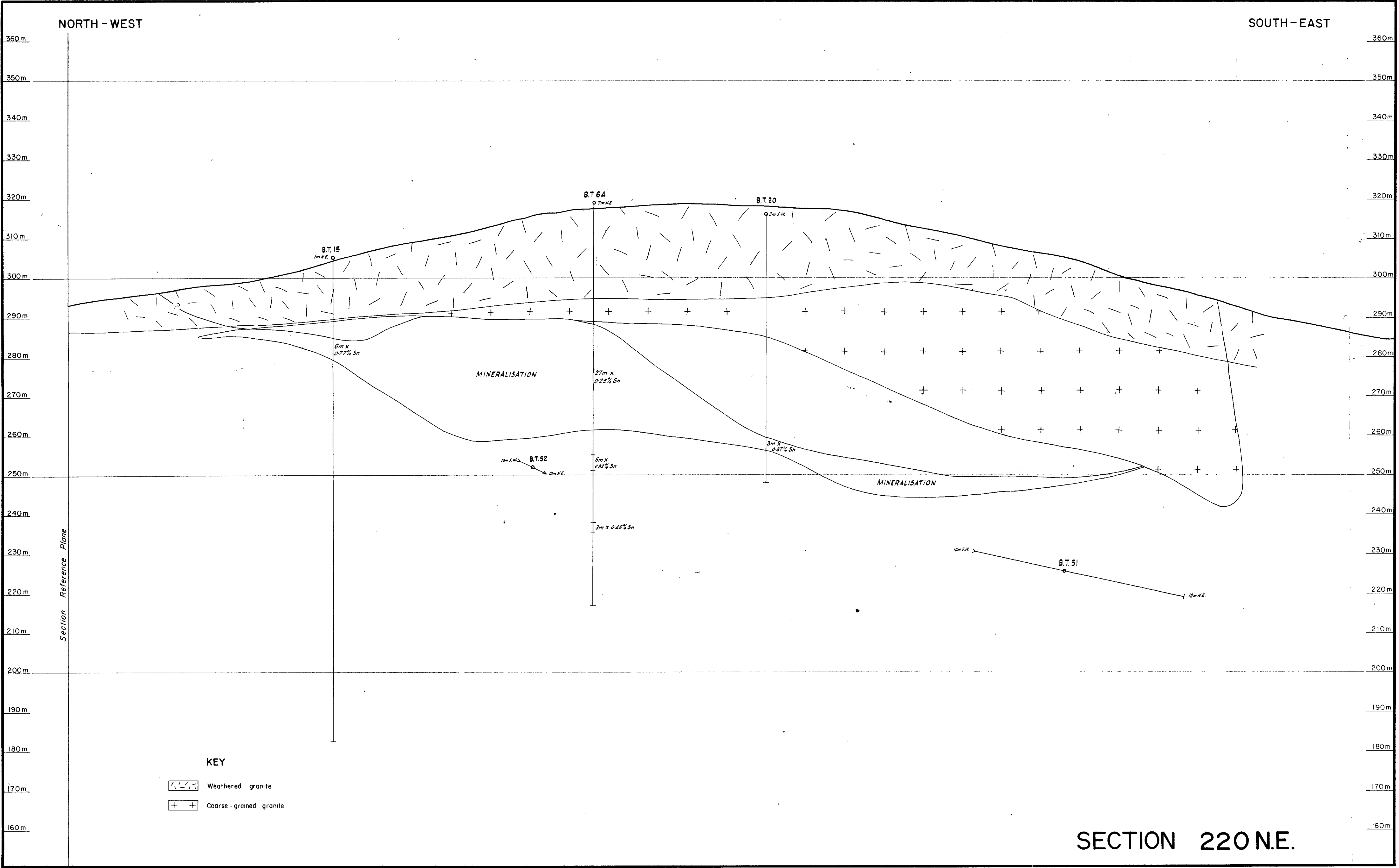
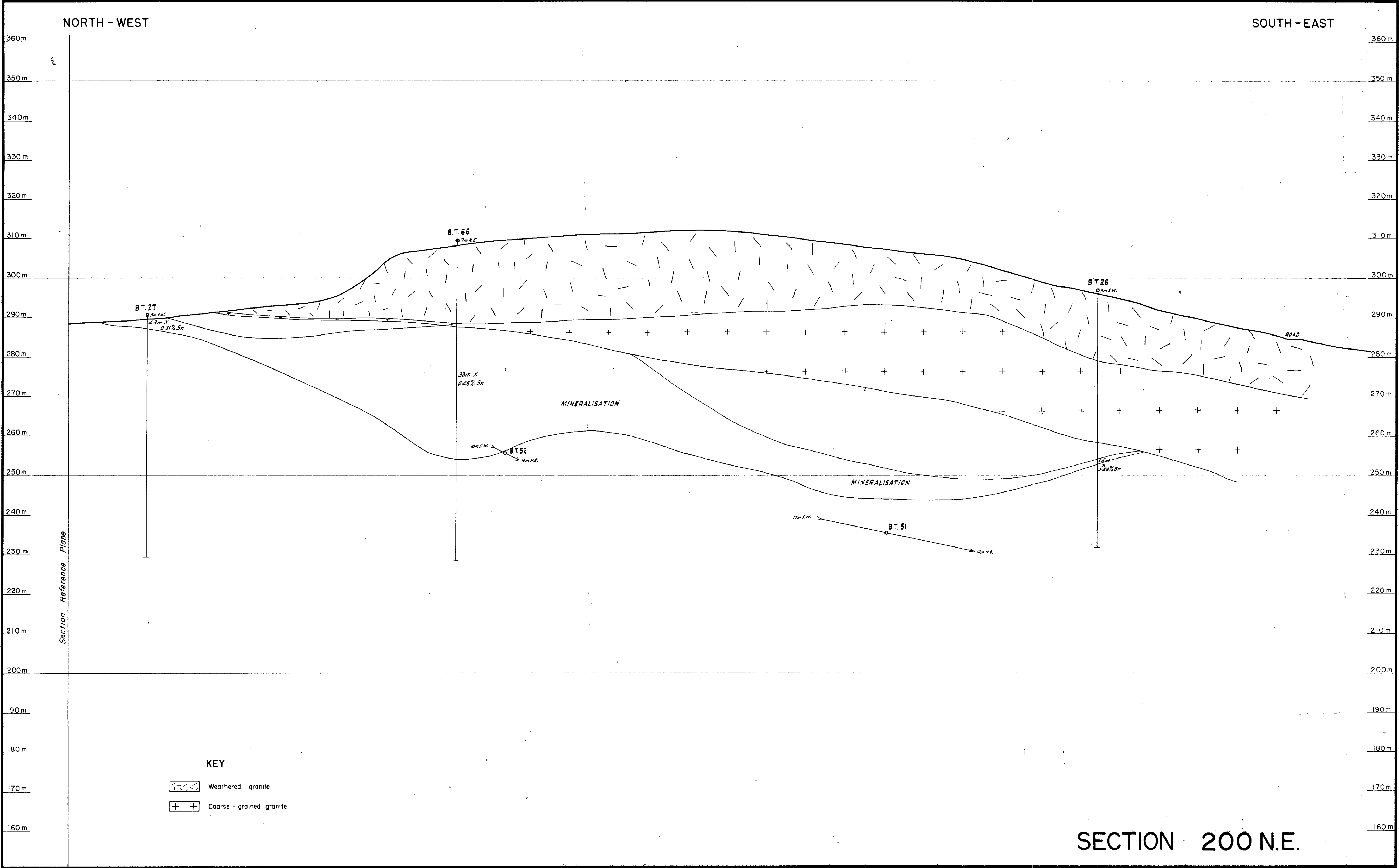
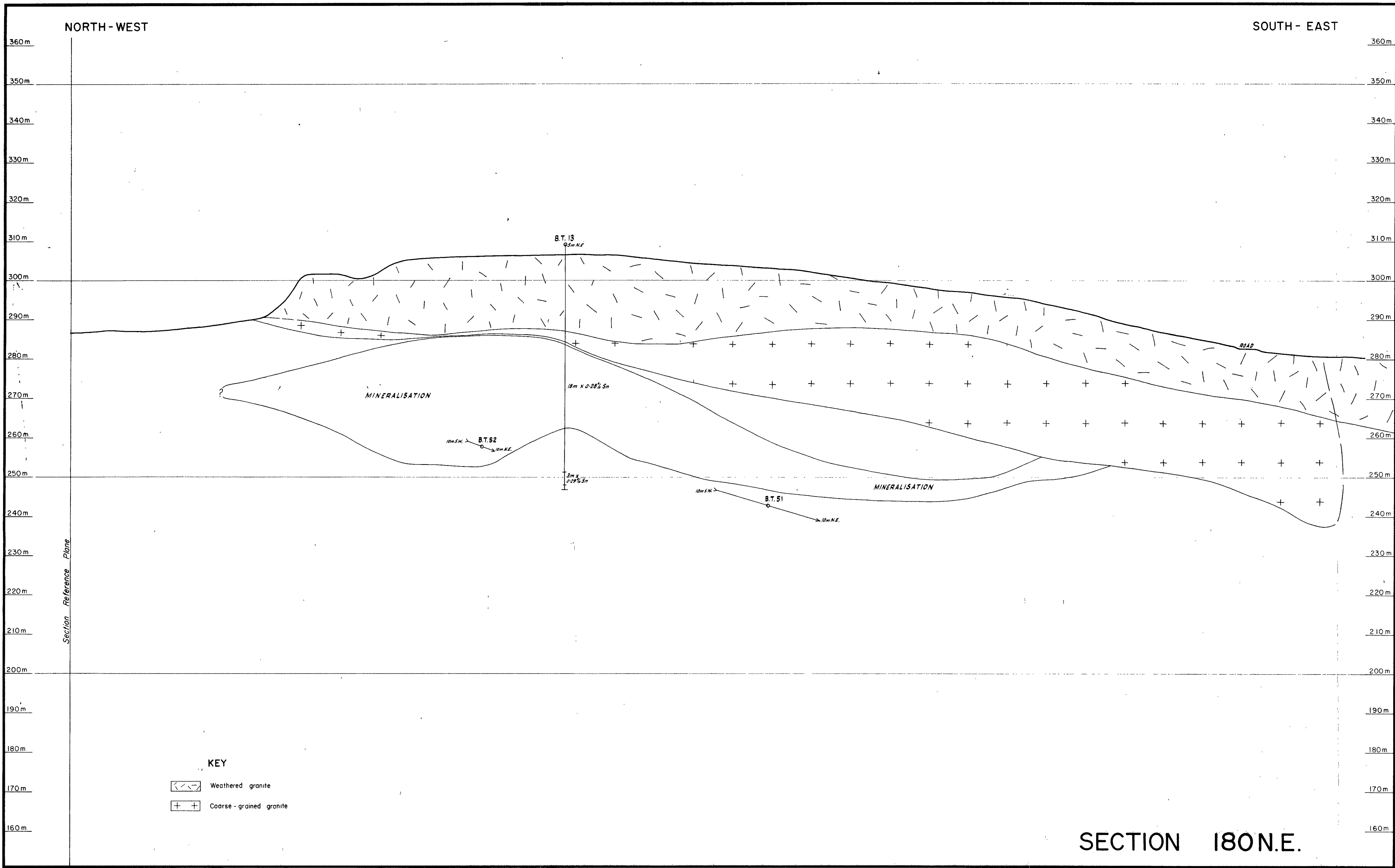


834013		22-6962
RENISON LIMITED		
E.L. 9/76 BLUE TIER AREA		
ANCHOR MINE - N.E. SECTIONS		
60 - 100 N.E.		
GEOLOGIST	K. Wells	SCALE 1:500 METRES
DRAUGHTSMAN	T.G.D.S.	
DATE	Sept 1979	
REVISIONS		
	5 cm	
		BT 437



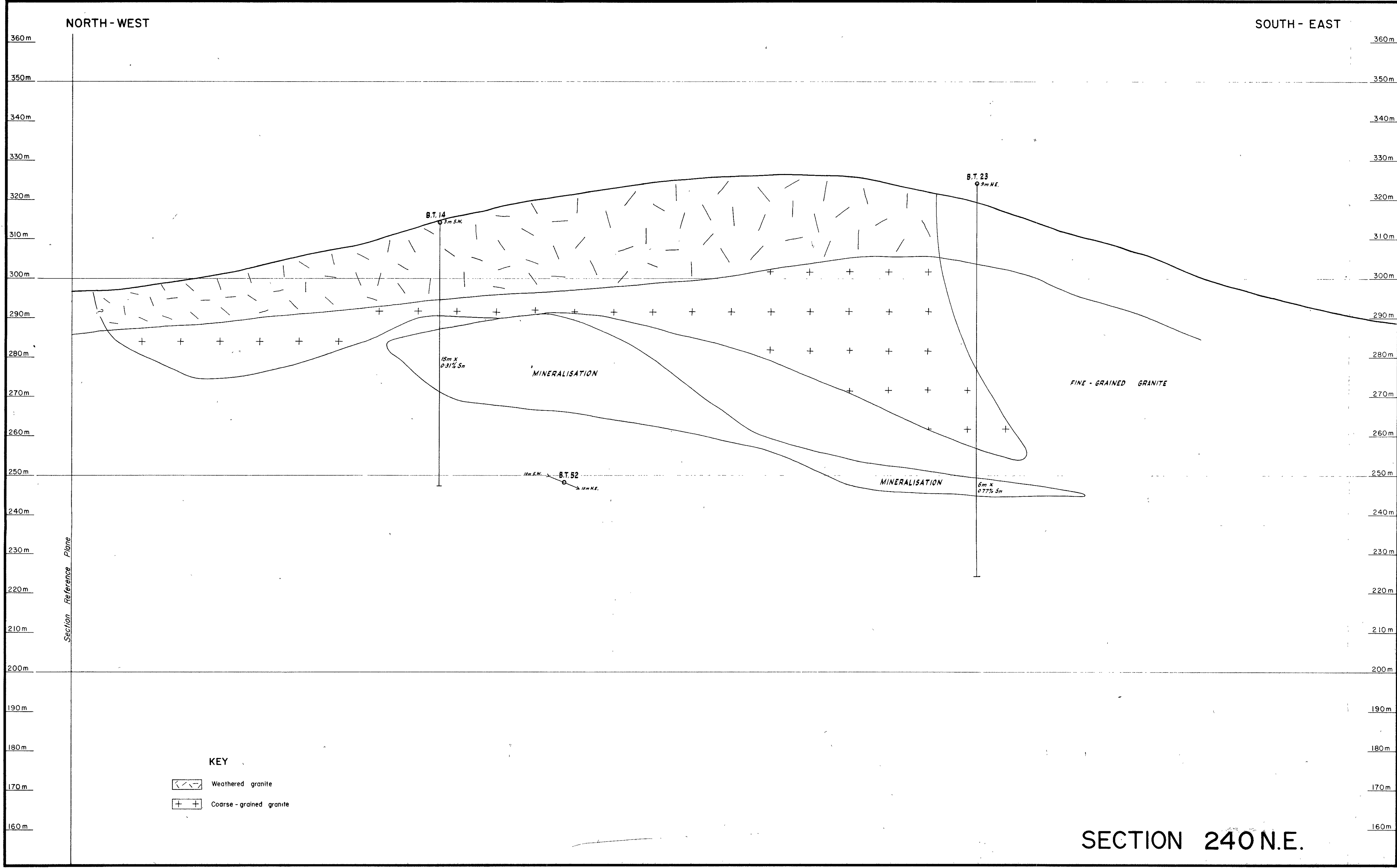
834014

REVISION	LIMITED
E.L. 9/76 BLUE TIER AREA	
ANCHOR MINE - N.E. SECTIONS	
120 - 160 N.E.	
GEOLOGIST	K. Wells
DRAUGHTSMAN	T.G.D.S.
DATE	Sept 1979
REVISIONS	
SCALE 1:500 METRES	
DRAWING No. BT 438	

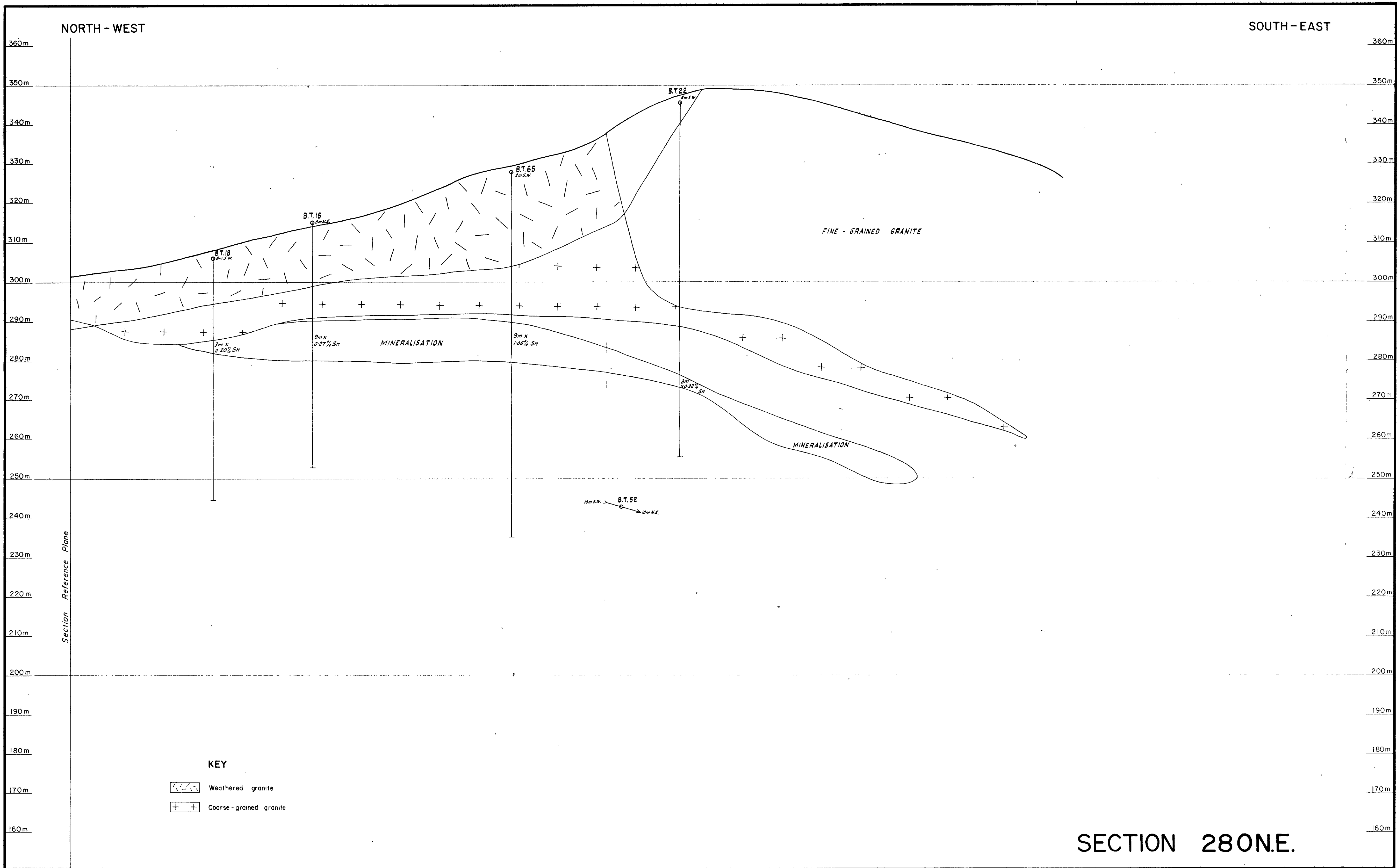
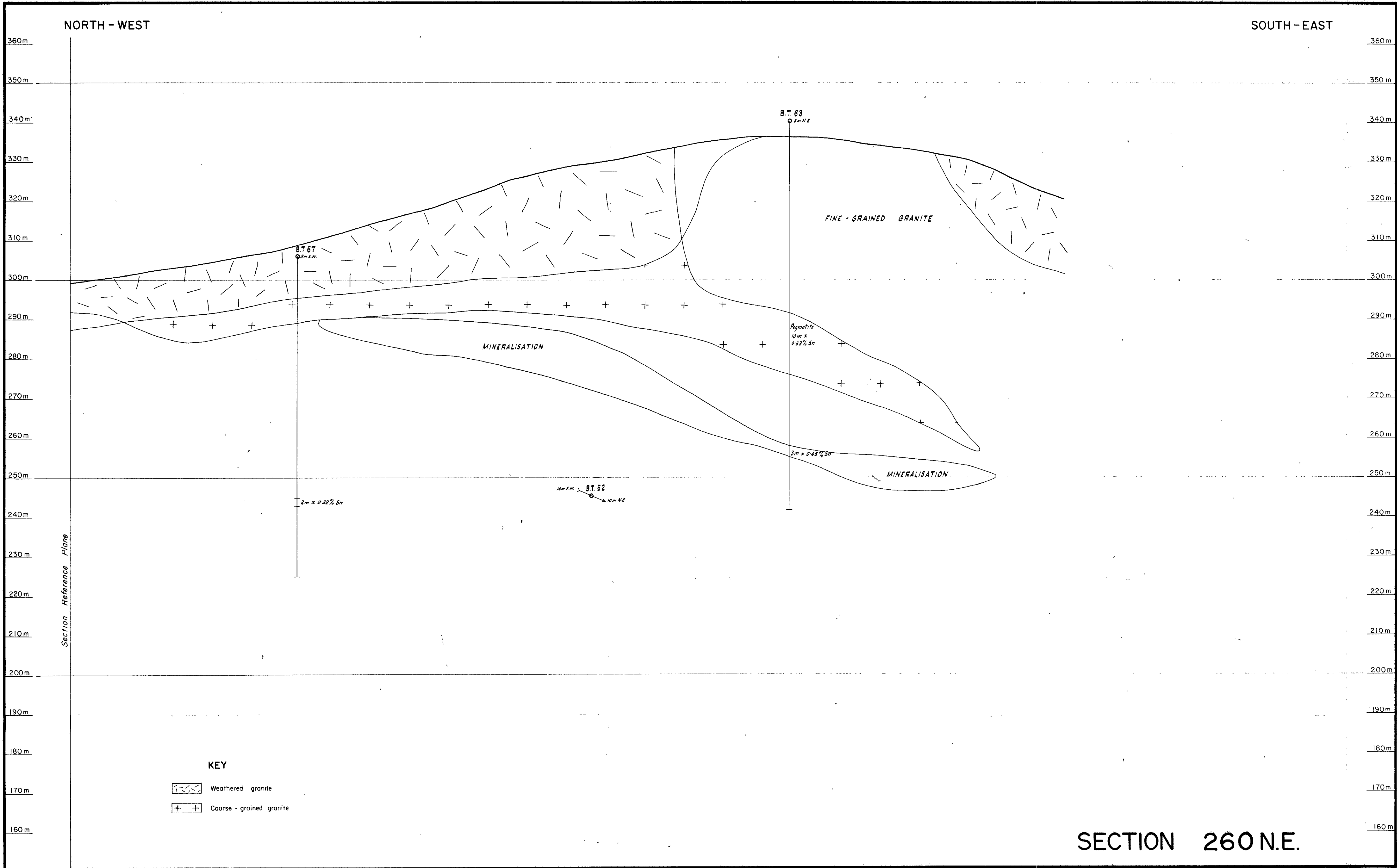


834015 92-1696 R

RENISON LIMITED	
E.L. 9/76 BLUE TIER AREA	
ANCHOR MINE - N.E. SECTIONS	
180 - 220 N.E.	
GEOLOGIST	K Wells
DRAUGHTSMAN	T.G.D.S.
DATE	Sept 1979
REVISIONS	
SCALE 1:500 METRES	
DRAWING No	
BT 439	



6840



834016 22-16/9/2

RENISON LIMITED

E.L. 9/76 BLUE TIER AREA

ANCHOR MINE - N.E. SECTIONS

240 - 280 N.E.

GEOLOGIST K. Wells SCALE 1:500 METRES

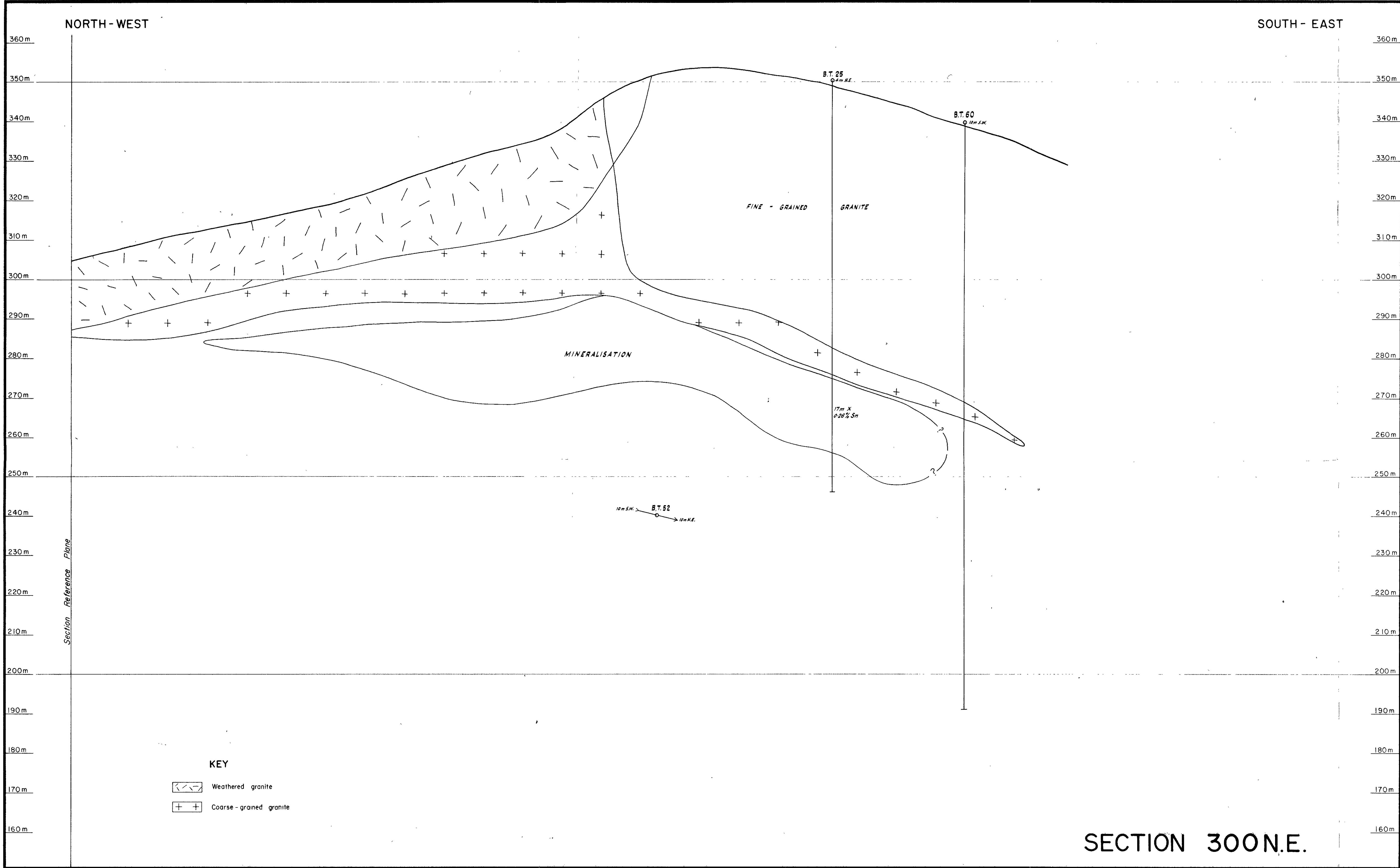
DRAUGHTSMAN T.G.D.S.

DATE Sept 1979

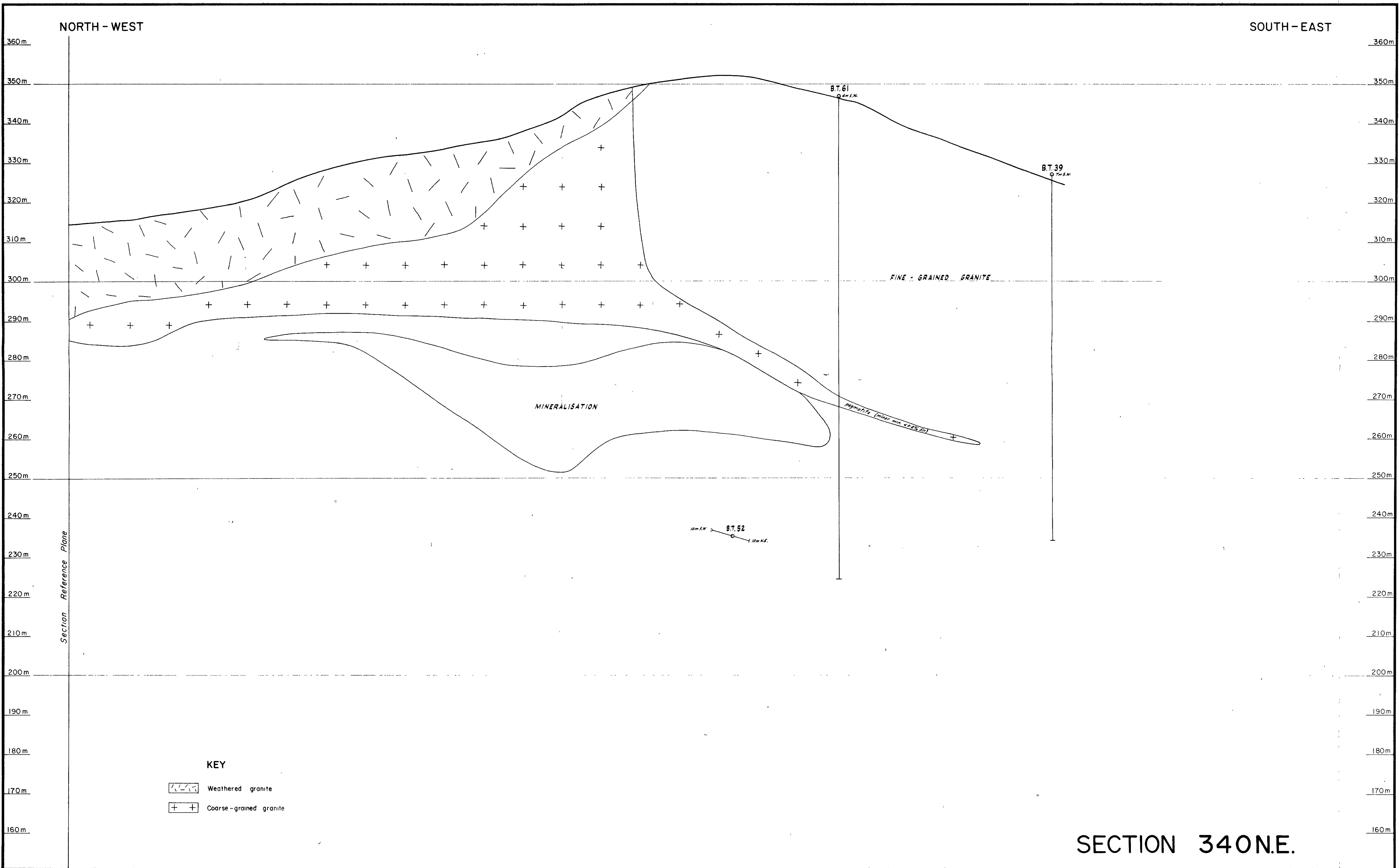
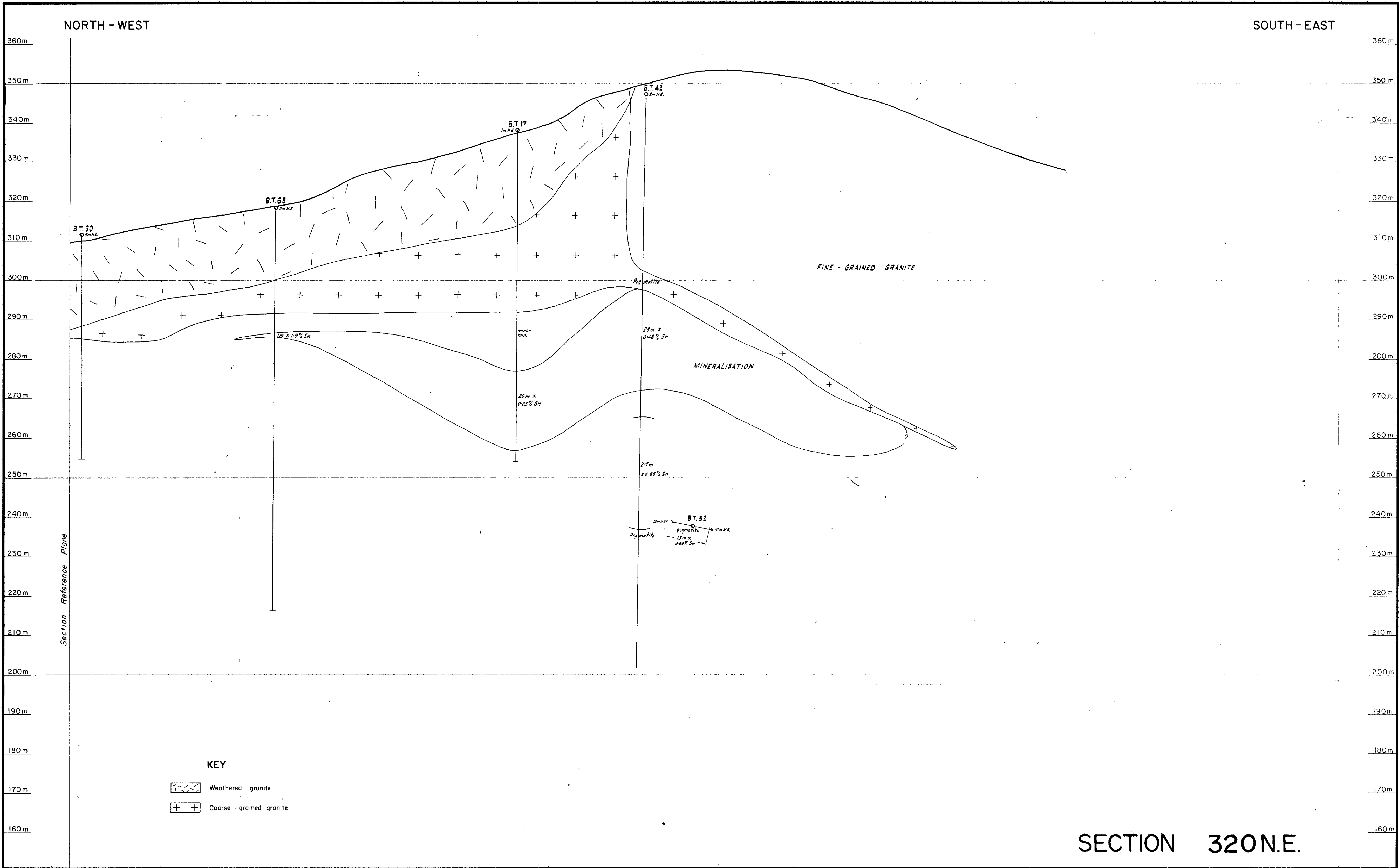
REVISIONS

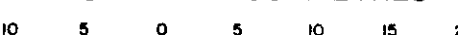
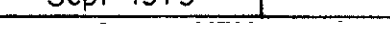
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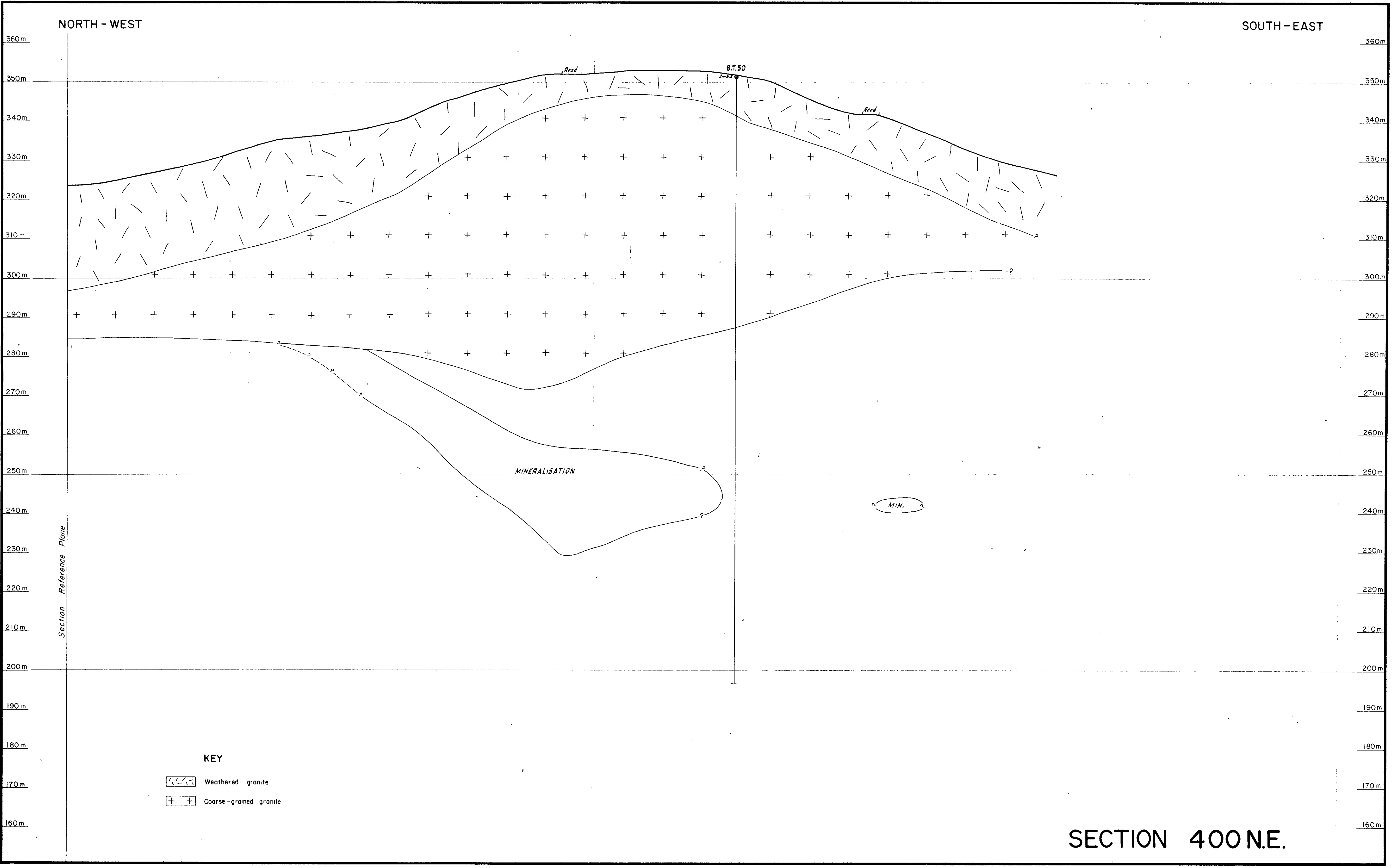
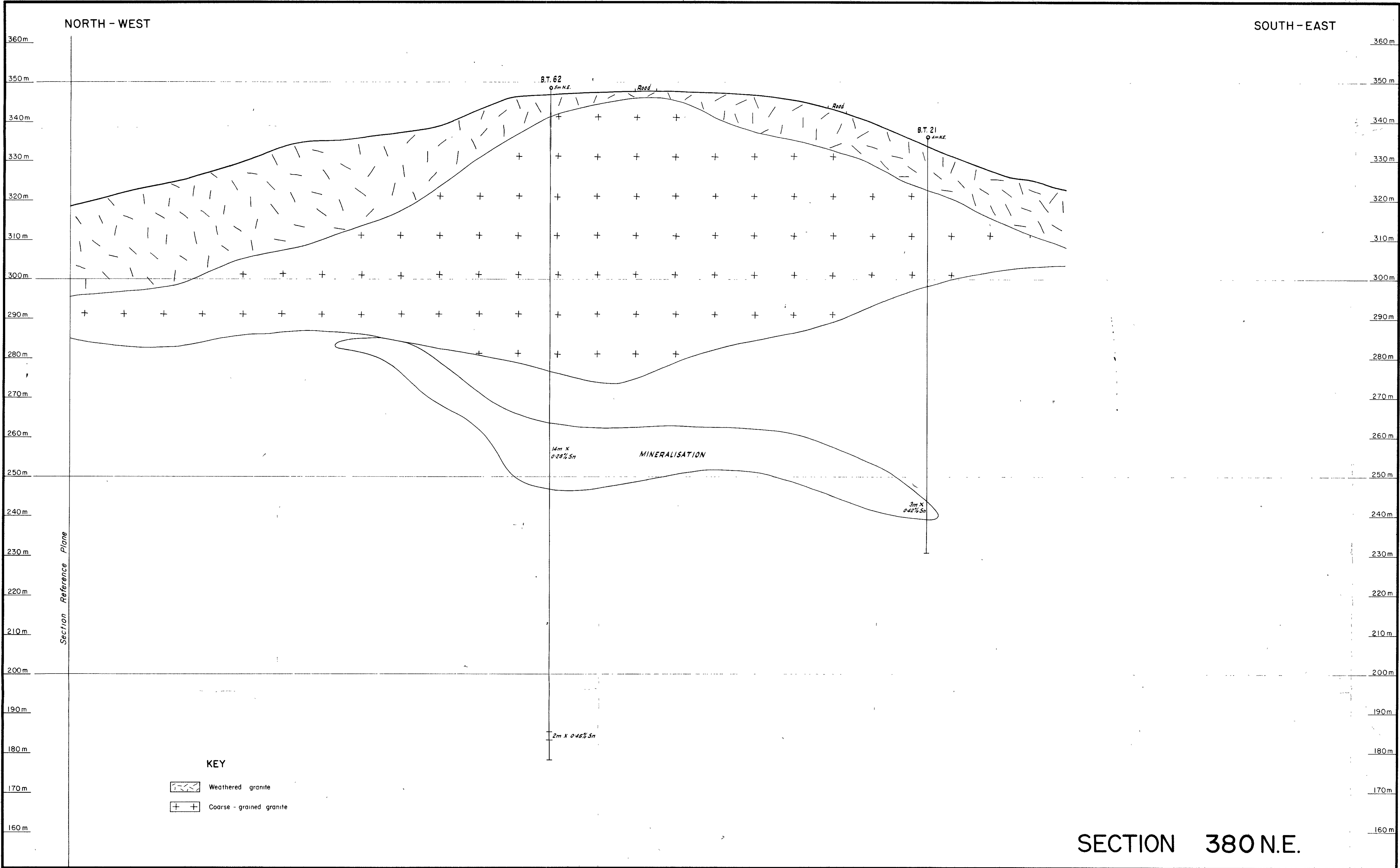
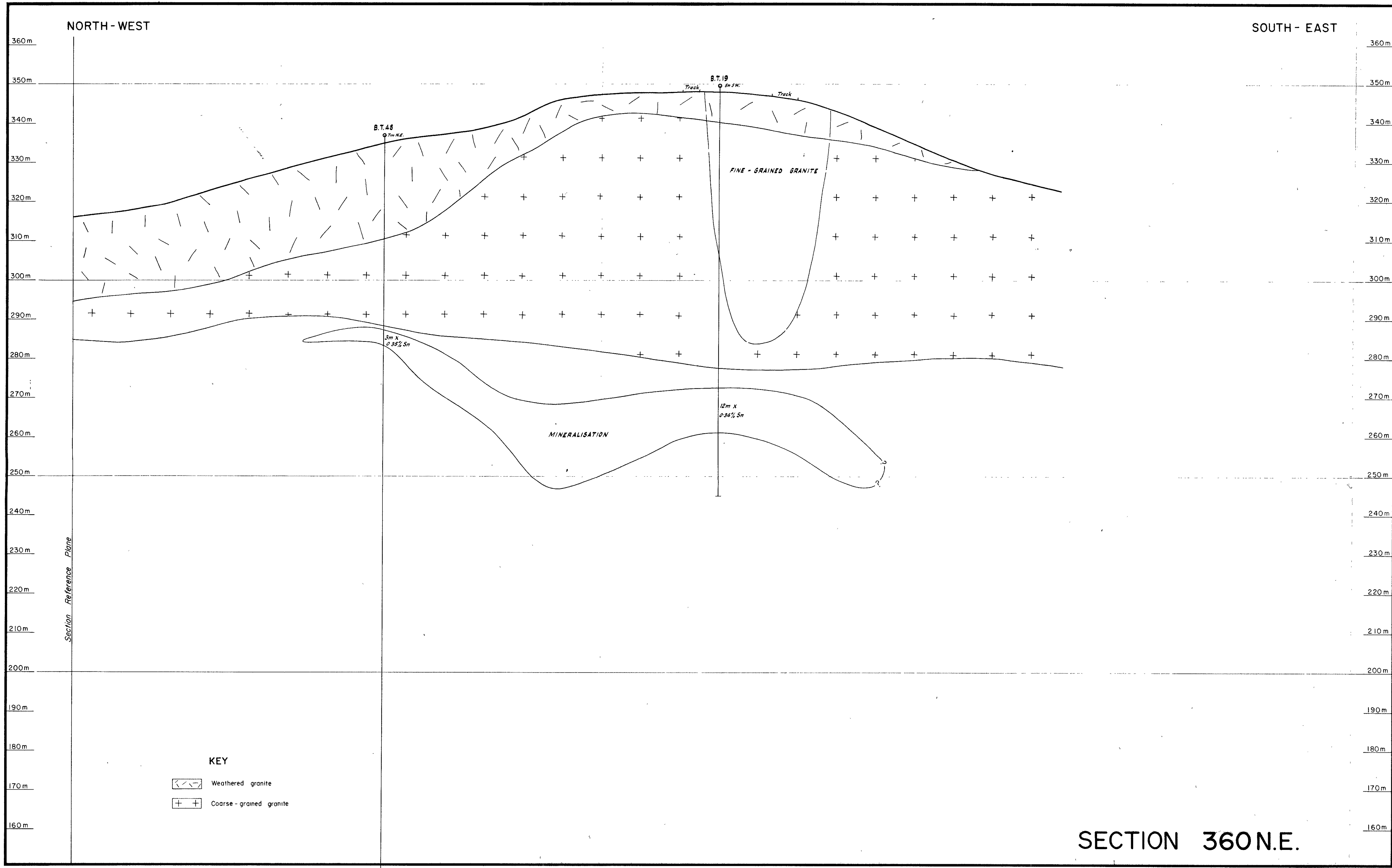
5 cm



6841



834017		82-1624 R	
RENISON LIMITED			
E.L. 9/76 BLUE TIER AREA			
ANCHOR MINE - N.E. SECTIONS			
300 - 340 N.E.			
GEOLOGIST	K Wells	SCALE	1 500 METRES
DRAUGHTSMAN	T G D S		
DATE	Sept 1979		
REVISIONS		DRAWING No BT 441	
			



834018 32-16962

RENISON LIMITED

E.L. 9/76 BLUE TIER AREA

ANCHOR MINE - N.E. SECTIONS

560 - 400 N.E.

GEOLOGIST K Wells

DRAUGHTSMAN T.G.D.S.

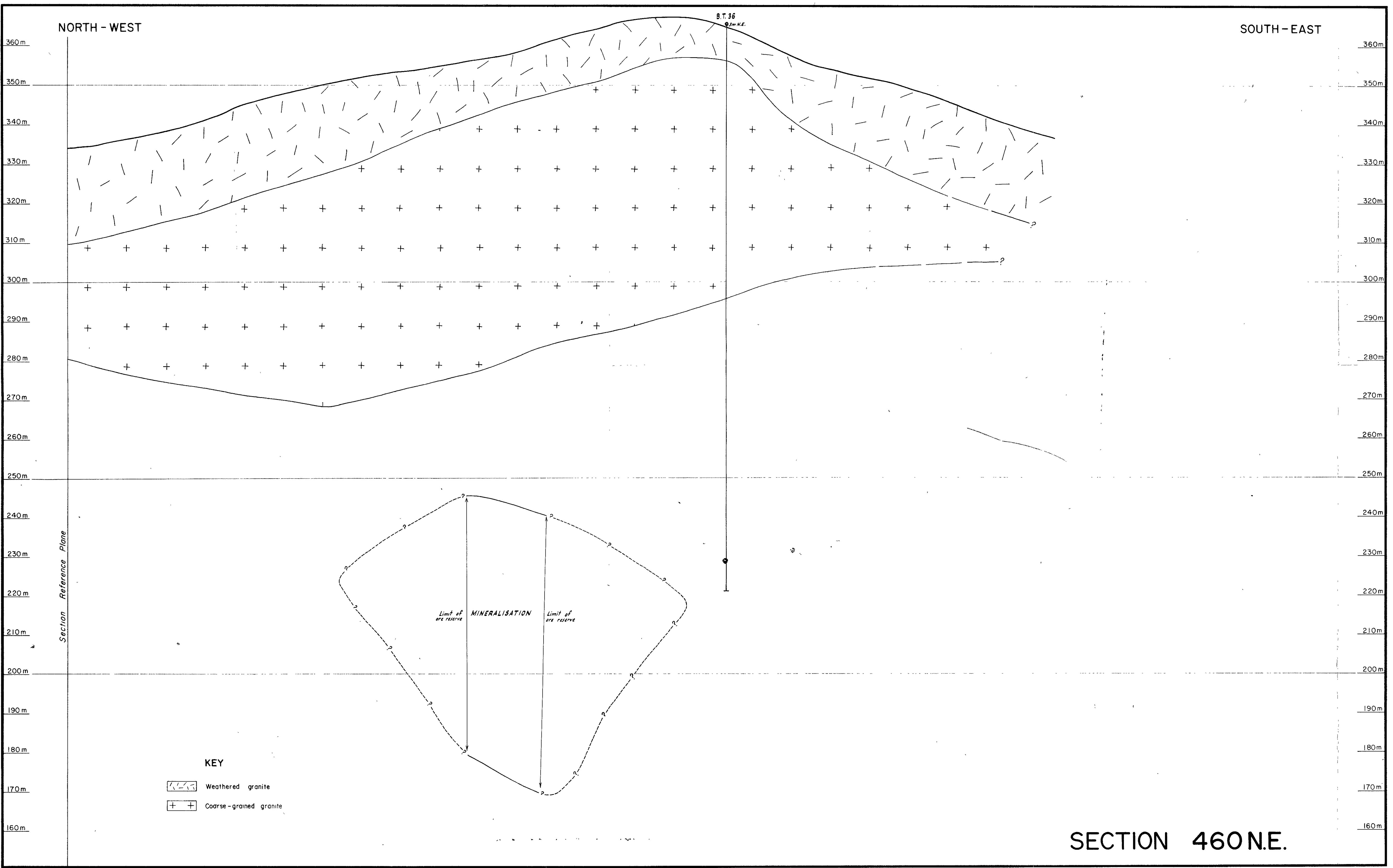
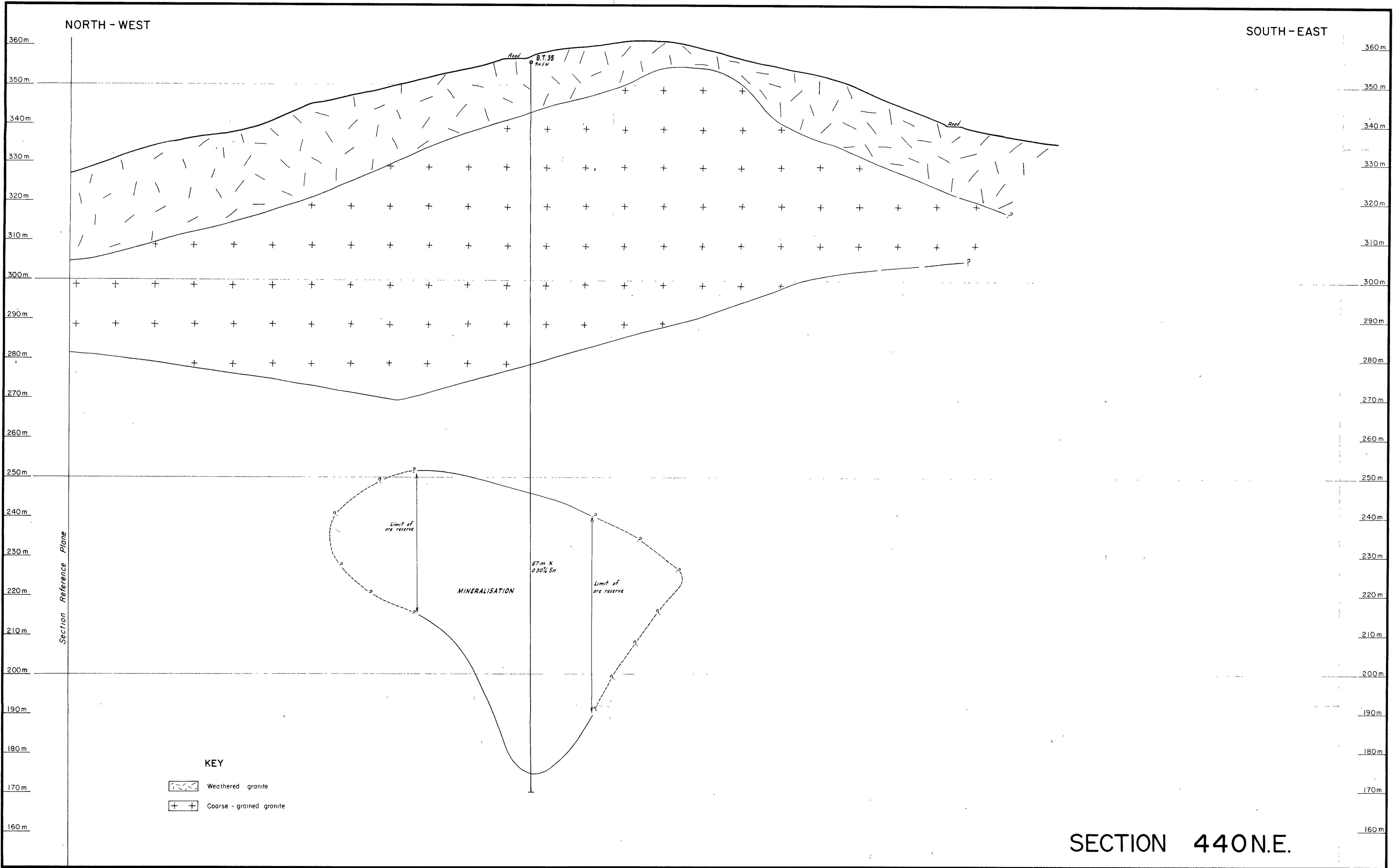
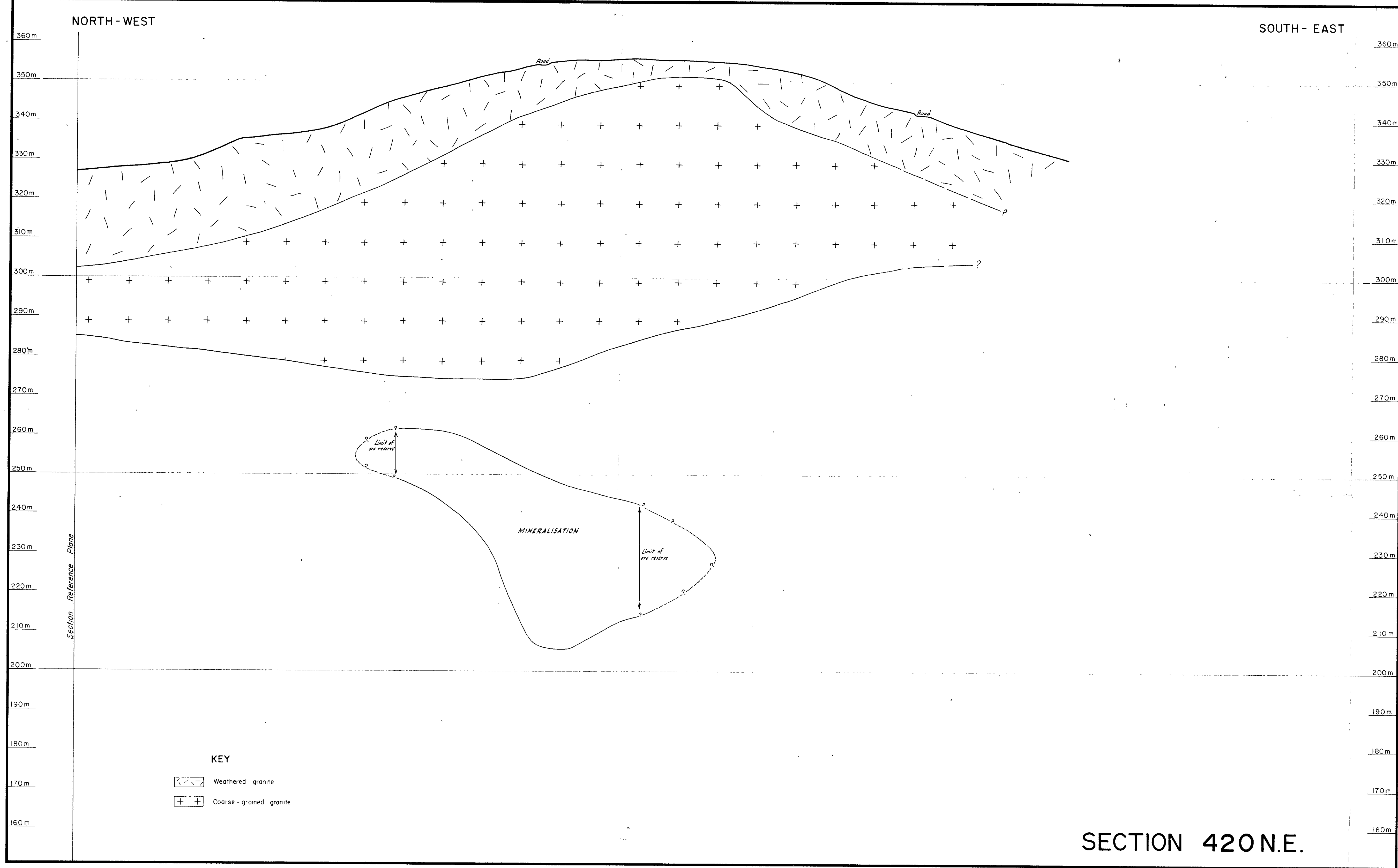
DATE Sept 1979

REVISIONS

SCALE 1:500 METRES

DRAWING No. BT 442

FIG. 4-3



834019 82-1026 R

RENISON LIMITED

E.L. 9/76 BLUE TIER AREA

ANCHOR MINE - N.E. SECTIONS

420-460 N.E.

GEOLOGIST: K Wells

DRAUGHTSMAN: T.G.D.S.

DATE: Sept 1979

REVISIONS:

SCALE: 1:500 METRES

DRAWING No: BT 443