Report On

AN EXPLORATION PROGRAM

for

WOLLASTONITE, GARNET, APATITE, & RARE EARTH ELEMENTS, TALC

In

SNOWDEN, GALWAY, CAVENDISH, MONMOUTH, FARADAY, WOLLASTON, LIMERICK, ASHBY, MAYO, BROUGHAM, NORTH CANONTO & SOUTH CANONTO TOWNSHIPS
---Southeastern Ontario---

This Is An O.P.A.P. funded Project
(O.P.A.P. Number OP92-244)

Ralph V. Stewart, B.Sc.,P.Geol
December 1, 1992

TABLE OF

010C

DRAWINGS (IN POCKET OF REPORT)

Drawing	Project Number	Drawing Title
92-1	13	Geological Plan- Ruby Garnet Property, Ashby Twp.
92-2	1	Geological Plan- Snowden Twp.
92-3	2	Geological Plan- Galway Twp.
92-4	3	Geological Plan- Cavendish Twp.-1.
92-5	4	Geological Plan- Cavendish Twp.-2.
92-6	6	Geological Plan- Monmouth Twp.
92-7	7	Geological Plan- Faraday Twp.-1.
92-8	8	Geological Plan- Faraday Twp.-2.
92-9	9	Geological Plan- Wollaston Twp.
92-10	10	Geological Plan- Limerick Twp.
92-11	11	Geological Plan- Ashby & Mayo Twps.
92-12	12	Geological Plan- Ashby Twp.
92-13	14	Geological Plan- Brougham Twp.
92-14	15	Geological Plan- Brougham & North Canonto Twp.
92-15	16	Geological Plan- South Canonto Twp.

DATE: November 20, 1992

NAME: Ralph V. Stewart

1.0 PROJECT LOCATION & ACCESS -1992 OPAP FILE OP92-244

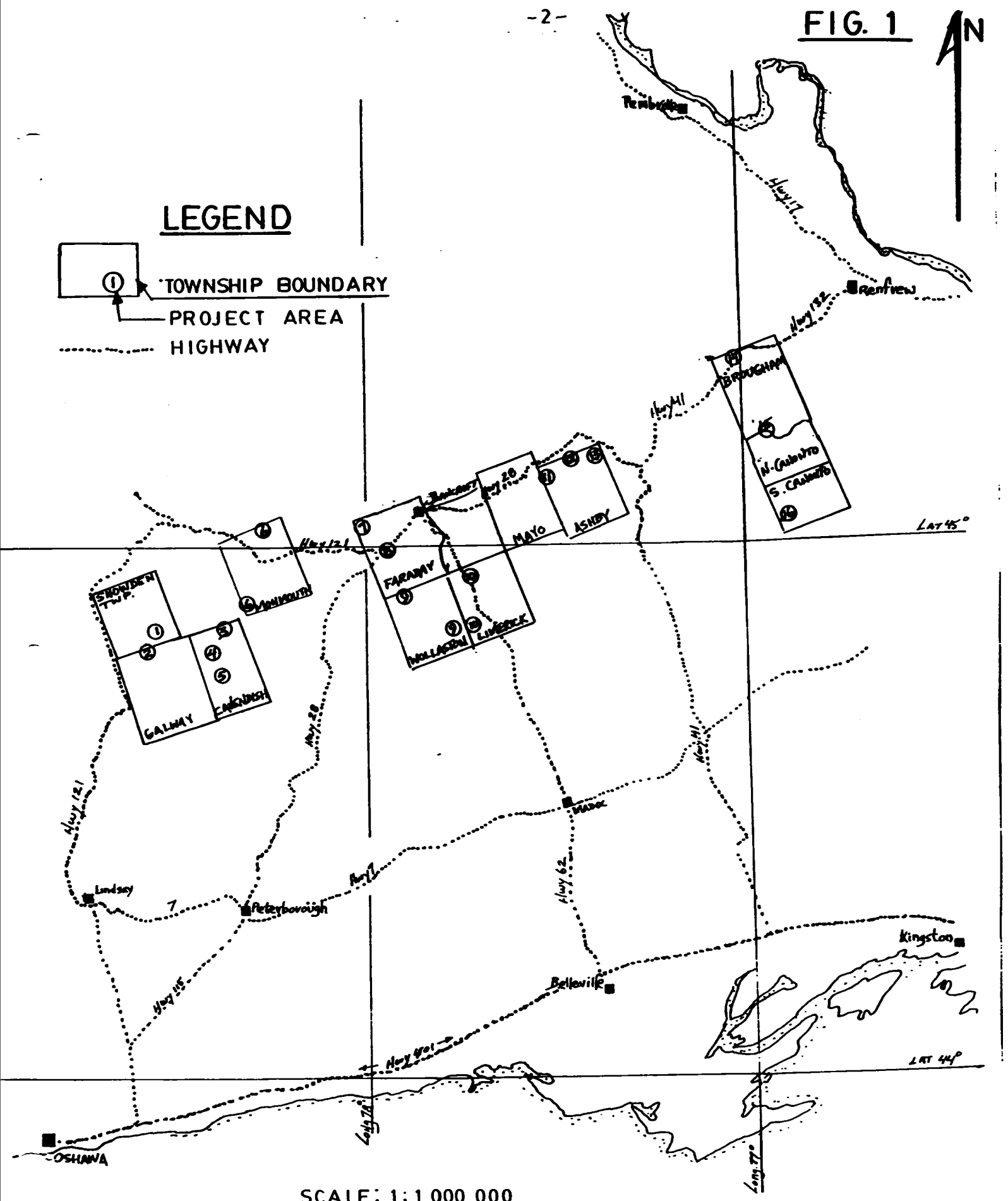
1.1 PROJECT LOCATION

The fifteen AREA locations explored under this grant cover specific zones within an east-northeasterly trending belt of precambrian (Grenville) age rocks, along a strike length of approximately 150 KM. See Figure 1?? for the location of these proposed areas, which are listed as follows:

AREA(S) (Number--See Drawings)	COMMODITY	Township	Mining DIVISION	NTS Sheet	Latitude	Longitude
1	Wollastonite	Snowden	S. Ontario	31D/15	44 51	78 32.8'
2	Wollastonite	Galway	"	31D/15	44 48.8	78 33.8'
3	Wollastonite	Cavendish 1	"	31D/16	44 51.1	78 22.0'
4		Cavendish 2	"	31D/16	44 48.4	78 23.4'
5		Cavendish 3*	"	31D/16	44 46.0	78 22.5'
6	Wollastonite	Monmouth	"	31E/1 & 31D/16	44 53.9 45 2.0	78 16.5' 78 15.9'
7	Wollastonite	Faraday 1	"	31E/1	45 2.0	78 00.0'
8		Faraday 2	"	31C/13 31F/4	44 59.3	77 55.3'
9	Wollastonite	Wollaston	"	31C/13	44 55.2 & 44 51.1	77 53.4' 77 45.8'
10	Wollastonite	Limerick	"	31C/13	44 57.2 & 44 51.8	77 42.7' 77 42.2'
11	Wollastonite	Ashby & Mayo	"	31F/4 & 31F/3	45 7.5	77 30.0'
12	Wollastonite, Base & Precious Metal -Talc	Ashby	"	31F/3	45 9.5	77 26.3'
13	Garnet	Ashby	"	31F/3	45 10.2	77 24.0'
14	Apatite, Fluorite Rare Earth Elements Wollastonite	Brougham	"	31F/6	45 20.8	77 00.9'
15	Wollastonite	North Canonto/	"	31F/2	45 12.4	76 56.3'
16	Wollastonite	South Canonto	"	31F/2	45 2.7	76 53.4'

* This project was not completed, see notes on page 5.

FIG. 1



SCALE: 1:1,000,000

20 0 20 40 60

K.M.

LOCATION PLAN

1992 O.P.A.P.—PROPOSED PROJECT LOCATIONS

1.2 PROJECT ACCESS

PROPERTY NUMBER & TWP.	ACCESS DESCRIPTION
1-Snowden Twp--	Take Route 35 north of highway 401 to Lindsay, then routes 36 & 649 north to the village of Kinmount. Take route 121 north of Kinmount a short distance, and turn east on highway 503. Follow 503 northeast a distance of approximately 9 KM to the property.
2-Galway Twp--	Similar to Snowden access, except the Galway property is some 6KM east of Highway 121, and located due south of Highway 503.
3-Cavendish	Take highway 28 east to route 507 (west of Lakefield) and turn north on route 507. Continue north some 53 KM to the north boundary of Cavendish Twp. Cavendish 1 area is accessible by a woods road, a distance of 1.2 KM east of highway 507. Cavendish 2 area is south on 507 (from the woods road) some 6.5 KM. The work area is some 1.6 KM due west of route 507.
4-Lakefield	
6-Monmouth	North Area- Take route 503 some 16KM east of Gooderham, to route 648. Turn north on this highway a distance of 6KM to Wilberforce. From Wilberforce take route 4 west one KM, to a secondary road which leads north approximately 0.5 to 1 KM to the work area. South Area-- Take highway 507 south of Gooderham a distance of 1.6 KM. At this point a secondary road leads east a distance of some 3.7 KM to Trooper Lake. At this point a trail leads east some 2.4 KM to the work area.
7-Faraday-1	Take highway 28, west of Bancroft some 11.3 KM. At this point a road leads north some 3.5 KM to the north end of Littlefools Lake. Take Monk Road west 1.4 KM to a secondary road which turns north and accesses the west portion of the work area. To access the east portion of the work area, go west from Bancroft on a secondary road which passes due north of Faraday Lake. Turn south onto the Albion Lake road at approximately 11 K.M. west of Bancroft . The work area is due west of Albion Lake.
8-Faraday- 2--	Take route 28 west of Bancroft some 9.3 KM. At this point a secondary road leads southwest some 1.9 KM. Approximately 300 metres east of this point, the planned traverse begins, and heads east as indicated.

9- Wollaston -- **N.W. SECTOR**- Take highway 62 north of Madoc some 48 KM to route 620. Continue west on 620 to Coe Hill. At Coe Hill turn north on a secondary road and continue for 7.2 KM. At this point turn west and continue some 4.4 KM to Deception Lake. Here the road swings south for 2.3 KM, at which point a trail traverses the work area in a southwest direction.

E. **SECTOR**- Some 12.3 KM west of Coe Hill on route 620, a secondary road turns south and follows the township line. The work area is immediately west of this road some 3.0 KM south of route 620.

10- Limerick -- **WEST SECTOR**- Similar access to the above E. Sector of Wollaston Twp. , but the work area is some 4.4 KM south of that area, along the township boundary line. **NORTH SECTOR**- Take highway 62 north of Madoc a distance of 4.4 KM beyond the route 604 turnoff. At this point a secondary road turns east, and at a point some 2.7 KM from hwy. 62, a woods road turns north, and continues some 2.2 KM across the work area.

11- Ashby/Mayo--Take highway 28 east of Bancroft to McArthur Mills, a distance of some 24 KM. At this village take a secondary road south for some 4.2 KM, at which point a trail leads east 1.6 KM to the work area. The western sector of this project can best be reached by continuing east of McArthur Mills, a distance of 6.5 KM. At this point a woods road turns south and continues some 3.4 KM to Parkhurst Lake and the property

12- Ashby-1--Some 6.4 KM east of the Parkhurst Lake/Route 28 road intersection (on route 28) another road turns south and continues a distance of 4.8 KM to Trout (Len) Lake, and the work area.

13-Ashby-2--Take hwy. 28 east of Bancroft a distance of 41 KM to Horwood Lake and continue east on route 28 a distance of 4 KM to the Snake River. On the east side of the river, an old road turns south off hwy. 28, and leads to Ruby Lake, and the work area a distance of some 2.0 KM.

14-Brougham/-- **NORTH SECTOR**- The work areas are in the vicinity of the intersection of Hwy. 41, and the Green Lake Forest Access Road. The Forest Access Road leaves highway 41, at a point 6.3 KM west of highway 132/41 intersection.

15-N. Canonto/--For the South Sector of Brougham Twp.,take Brougham--route 508 southwest from hwy. 17 to

Calabogie, a distance of 23 KM. At this point, highway 508 continues in a southwest direction an additional 15 KM to Black Donald Lake. The work area lies immediately south of 508, and in the area of a hydro line, some 3.2 KM southwest of Black Donald Lake.
For the N. Canonto Sector, continue by road southwest from route 508 past the south sector Brougham Project to the Mountain Chute Hydro Dam. Just beyond this dam a road crosses the Madawaska river in a southwest direction. The work area is approximately 3KM south west of this bridge, along a dirt road.

16-S. Canonto--Take highway 509 north of route 7 to the village of Ompah, then northeast some 8.3 KM to the mosque Lake turn-off. From this turn, a secondary road leads north, and follows the hydro line north of Mosque Lake to the work areas, distances of 6.5KM and 13 KM respectively.

2.0 CHANGES TO PROPOSED PROJECT

The following two minor changes were made to the program.

PROJECT 5 (Cavendish Township-3)- This was not completed, as the two other projects (numbers 3 & 4) in Cavendish Township, yielded negative results, and it was felt prudent to concentrate on other areas with more potential.
PROJECT 6 (Monmouth Township) An outcrop of diopsidic marble in lot 27, Cons. XVI, was not visited due to private land restrictions.
PROJECT 12 (Ashby Township)- One additional traverse (D), was completed to the east of Trout Lake (Drawing S 92-12).

3.0 GEOLOGICAL MAPPING METHODS AND WORK DONE

All traverses were completed with the aid of a brunton compass and hip chain instrument. All outcrops traversed were plotted on graph paper (scale 1" = 200'), and these daily work sheets are included in Appendix C. Grab samples of typical rock and/or mineral samples were collected as required. The detailed descriptions of samples collected are contained in Appendix A. Those samples selected for chemical and/or thin section analysis, are so indicated in the Appendix A listing, and are also shown on the drawings which accompany this report.

Traverses, prospecting, and geological mapping were completed on

all the projects listed on page 1. Traverses were completed as proposed in the Application For Funding Report, with exceptions as indicated in section 2.0 The location of all traverses are shown on each of the drawings accompanying this report.

4.0 GEOLOGY DESCRIPTIONS (Discussions & Recommendations)

AREA OR PROJECT NUMBER

1. **SNOWDEN TWP.** (Dwg. S 92-2)

ROCK DESCRIPTIONS:

Rocks were mainly calcitic and/or dolomitic marbles. These rocks (especially the dolomites), contain variable amounts of white to bluish white, bladed, acicular tremolite. Along Traverse C, tremolite content up to 50% (sample S 92-40) was observed.

Sample 92-77, collected within a skarn zone in Traverse F, contains massive magnetite and disseminated sulphides. This sample was analyzed for base and precious metals and rare earth elements, but anomalous values were not detected.

ECONOMIC CONSIDERATIONS:

If uses for acicular tremolite can be established, this area will warrant further exploration and evaluation of the "richer" tremolitic zones. Some outcrops of white dolomite may be of interest as a source of white "mineral filler". A thin section analysis of Sample S 92-80 (Traverse D) indicates a tremolite content of 75%.

---

2. **GALWAY TWP.**(Dwg. S 92-3)

ROCK DESCRIPTIONS:

Rocks underlying traverses A,B, & C are calcitic limestone (with minor graphite), which have been intruded by bodies of gabbro, and smaller bodies of granodiorite. All rocks have been moderately fractured, and locally there is silicification of the calcitic limestones, with accompanying disseminated pyrite.

ECONOMIC CONSIDERATIONS:

There does not appear to have been adequate sources of silisic acid here to produce wollastonite. Along Traverse B, Sample S 92-32 (highly silicified limestone) contains significant "visual" amounts of pyrite, and minor chalcopyrite. On assay, slightly elevated values of Ni(49 ppm) and Cu(99 ppm), were detected.

3. CAVENDISH TWP.-1(Dwg. S 92-4)

ROCK DESCRIPTIONS:
Silicated dolomites were observed in close contact with granite and gabbro intrusives. Minor amounts of tremolite, talc, & diopside were noted in a few of the outcrops.

ECONOMIC CONSIDERATIONS:
The rocks examined do not show potential for industrial minerals. The paucity of calcitic limestones, and lack of silicification do not bode well for the formation of wollastonite.

---

4. CAVENDISH TWP.-2(Dwg. S 92-5)
ROCK DESCRIPTIONS:
Interlayered calcitic/dolomitic marbles were observed, close to their contacts with syenitic and granitic intrusives. Minor amounts of tremolite, diopside, and philogopite were observed in some of the outcrops.

ECONOMIC CONSIDERATIONS:
Minor silicification has altered some of these rocks but does not appear to have been intense enough to produce wollastonite.

---

6. MONMOUTH TWP.-N.E. & S.W.(Dwg. S 92-6)
ROCK DESCRIPTIONS:
Calcitic and diopsidic marble were examined close to their contacts with granitic and gabbro intrusives. Some 3-5% disseminated pyrite was noted in diopsidic/silicified "gossaned" skarn zones.

ECONOMIC CONSIDERATIONS:
Multielement chemical analysis of samples (S 92-22A & 92-23) within "gossaned" skarn zones did not return anomalous values in base and precious metals. Wollastonite mineralization was not noted. A number of old trenches were observed along Traverse A, probably completed to test for uranium.

---

7. FARADAY TWP. # 1.(S 92-7)
ROCK DESCRIPTIONS:
Traverses D & E, examined calcitic marbles which have been intruded by granite pegmatite dykes, close to a large granodiorite body. These carbonate rocks have been moderately altered (silicified), with the formation of tremolite, philogopite and minor diopside.

Traverses A & B were along marble outcrops close to their contact with gabbro intrusives. The marbles appear to be relatively free of accessory minerals, and formed in a geological environment unsuitable for wollastonite formation.

ECONOMIC CONSIDERATIONS:
Traverses D & E were completed in an area where anomalous uranium values are known to exist. Only minor diopside was noted in outcrop. The calcitic limestones examined in A & B traverses were not silicified to the extent required to produce wollastonite.

---

8. FARADAY TWP. # 2.(Dwg. S 92-8)
ROCK DESCRIPTIONS:
A traverse north of Laundry Lake, was conducted along a band of tremolitic, calcitic/dolomitic marble. Tremolite content in some of the outcrops is as high as 70% and the marbles are mildly to moderately silicified.

ECONOMIC CONSIDERATIONS:
If markets for bladed and acicular tremolite can be established, this area definitely warrants additional investigation. A thin section cut from sample S 92-16 indicated 85% tremolite.

9. WOLLASTON TWP.(N.W. & E. Sectors)
ROCK DESCRIPTIONS:
Close to the east boundary of the township, outcrops of diopsidic/calcitic marble were examined along the township road. These rocks lie immediately north of a large body of gabbro.

In the northwest sector of the township (south end of traverse A), a body of green diopsidic marble is in contact with a large granite batholith. The marbles close to the granite are highly silicified, and contain wollastonite. Sample 91-54 was evaluated in thin section, and short crystals of wollastonite make up 20% of the minerals present. Similiar marbles were observed near the north end of this traverse (sample S 92-56).

ECONOMIC CONSIDERATIONS:
In view of the wollastonite detected in sample 91-54, additional prospecting is warranted near the north end of Traverse A, and around the north granite/carbonate contact. Further evaluation of the outcrop hosting sample 91-54 should also be completed.

---

10. LIMERICK TWP. --N.W. & S.W. SECTIONS--(Dwg. S 92-10)
ROCK DESCRIPTIONS:
N.W. Sector- Traverse E, completed along an old woods road, examined a series of calcitic limestone outcrops, locally silicified, with the development of mica and sillimanite. The carbonate rocks evaluated occur close to their contact with a large granite batholith. A few narrow "gabbroic" dykes intersect carbonate rock outcrops. Sample S 92-46 was selected for thin section analysis, and comes from a "laminated marble band" containing a number of heavy minerals (oxides, apatite, tourmaline).

S.W. Sector- Traverses A, B, & C examined diopsidic limestones, interlayered with a few outcrops of silicated limestones. Near the north end of traverse B, silicated limestones (some skarns) were observed in contact with a large gabbro intrusive body.

ECONOMIC CONSIDERATIONS:
In the N.W. sector (Traverse E), a thin section analysis of sample S 92-46, indicated 5-10% heavy minerals, in a laminated carbonate rock. Additional evaluation and assay of this rock type to check for metallic constituents should be completed.

---

11. ASHBY & MAYO TOWNSHIPS(Dwg. S 92-11)
ROCK DESCRIPTIONS:(Mayo-Ashby Boundary Area)
Traverse A, along the Little Mississippi River, defined limestone (skarn) outcrops. They are silicated and contain fine disseminated sulphides. A multielement assay of sample 92-9 (10% sulphides) yielded anomalous values in Zinc (583 ppm), and Cu (140 ppm). Traverse B outcrops are calcitic and silicated(skarn) rocks, which contain minor tremolite. A thin section cut from 92-11 indicated 50% fibrous tremolite, 20 % diopside and the possibility of wollastonite mineralization.

ECONOMIC CONSIDERATIONS:(Mayo-Ashby Boundary Area)
Sample 92-11 material should be analyzed by X Ray Diffraction to determine if wollastonite may be associated with the acicular tremolite. The anomalous base metal values detected in sample S 92-9 appear to support the theory of enrichment in metallic minerals (alteration halo) around the "Parkhurst Granite Intrusive", explained below.

ROCK DESCRIPTIONS:(South of Parkhurst Lake)
Traverses C & F are a continuation of traverses completed under the 1991 OPAP program (OP 91-335). Traverse C defined interlayered, silicified chloritic schists, and black pyritized meta sediments. Most of the samples collected in 1992 (ie Nos. 106, 107, 110, & 111) yielded moderately anomalous (ppm) values in zinc.

ECONOMIC CONSIDERATIONS:(South Of Parkhurst Lake)
Anomalous base metal values obtained in the 1991 and 1992 programs appear to be located in an "alteration halo", which extends at least 2000 feet outside the "Parkhurst Granite Intrusive" contact, in volcanic/sedimentary rocks. It is also possible that a major north-south trending fault in the vicinity of the 1992 traverses acted as a channelway for contact metamorphic mineral solutions. Additional mapping and prospecting for base metals (especially zinc) within the alteration halo of the "Parkhurst Intrusive" is warranted.

12. ASHBY TWP.--1 (Len or Trout Lake Area) [Dwg. S 92-12]

ROCK DESCRIPTIONS (Traverse A)
Traverse A was completed to check the reported occurrence of talc (OGS Report 26..page 31), and to determine it's economic potential. "Talcy" outcrops of calcitic/dolomitic marble, are exposed near the west end of Len(Trout) lake. Rocks examined were tremolitic marbles, containing up to 50% tremolite, and at least one narrow, talc rich band, some 2 to 3 feet in width. Talc content of this band was estimated to be approximately 30%. A few old trenches located some 200 feet further west, have exposed tremolitic marble, containing only minor amounts of talc.

ECONOMIC CONSIDERATIONS: (Traverse A)
The narrow talc rich band described above is of some interest, but there does not appear to be enough talc content overall, to warrant further exploration. The host marble body is some 1500 feet in strike length, and some 500 feet in width, but if one assumes a 3 foot wide band extending 1500 feet in length, and 100 feet down dip, an ore tonnage (30% talc) of only 35,000 is indicated. Further stripping would have to be completed to change these projections.

ROCK DESCRIPTIONS (Traverses B to G Inclusive)
Most rocks examined were white colored calcitic or dolomitic marbles, with varying amounts (5%-50%) of prismatic tremolite crystals. In traverse G, calcitic marbles were noted close to their contact with meta-gabbro rocks.

ECONOMIC CONSIDERATIONS(Traverses B to G Inclusive)
If economic applications for acicular tremolite are developed, this area warrants further investigation, especially in the area of Traverse D.

13. ASHBY TWP--2.(S 92-1)

ROCK DESCRIPTIONS
Interlayered garnet bearing, and non garnet bearing quartz/hornblende/mica gneisses are common in the northeast corner of Ashby township. Rocks of this composition were mapped by the writer in 1991, and the current 1992 program also defined rocks of similar composition. In general, the garnet content of the gneisses mapped in 1992 is lower than those mapped in 1991. In addition, the size (1/16"-1/8") of the garnets mapped in the current program were smaller. Under the current program, garnet bearing zones were traced to the southern end of Ruby Lake.

ECONOMIC CONSIDERATIONS
The 1991 OPAP program on the Ruby Property defined some 1.8 million tons of garnet bearing gneiss ore (+30% garnet) in the northeast

corner of Ashby township (drawing S 91-1). The current 1992 program expanded this mapping to the south, and defined an additional 3.0 million tonnes of garnet bearing ore grading + 20% garnet content. The quantity of garnets defined in both the 1991 & 1992 programs is substantial, and additional testing is now warranted to determine the quality of these major reserves.

14. BROUGHAM TWP.(Dwg. S 92-13)

ROCK DESCRIPTIONS:

TRAVERSE G--- Outcrops of calc/silicate gneiss, close to a pink coloured granitic pegmatite dyke were examined and evaluated. Five small outcrops of calcitic gneiss adjacent to the "woods road", carry 5-10% apatite and trace to 5% fine grained red fluorite. The calc/silicate rocks continue sporadically to the east, a distance of at least 1000 feet, close to the pegmatite dyke. Unfortunately the apatite/fluorite content decreases significantly, east of the woods road. A thin section cut from sample S 92-57 indicated 3% apatite, and traces of sphene and zircon.

TRAVERSE A,B,C,D, & F--- Rocks examined consisted mainly of calc/silicate gneiss (skarns), lying close to their contact with mafic, pegmatitic, or alkalic (syenite) intrusive rocks. Minor amounts of apatite and fluorite were noted.

TRAVERSE E & H--- Both traverses examined diopsidic marbles for possible wollastonite, apatite and fluorite content.

ECONOMIC CONSIDERATIONS:

Traverse G--The apatite/fluorite content is not high enough to be of economic interest. Although the calc/silicate rocks carrying these minerals continues at least 1000 east of the "woods road", the apatite/fluorite content drops off significantly to the east. The content of apatite/fluorite noted in the remaining traverses is low, and not of economic significance. No indication of wollastonite mineralization was observed. Rare earth indications in or close to granitic pegmatites are known to exist, but areas of economic potential for all these elements were not found in the current work.

15. NORTH CANONTO/BROUGHAM TWPS.(Dwg. S 92-14)

ROCK DESCRIPTIONS (BROUGHAM TWP.-Traverses A,B,C,D,E, & F)

Interlayered calcitic and dolomitic marbles were observed along the north-northwest contact of a large trondhjemite intrusive body. Minor bodies of hornblende-quartz gneiss also occur in the marbles, close to the trondjemite. Calcitic marbles become more silicified and "skarney" close to the intrusive contact, with the formation of sporadic tremolite. Limonitic granitic/calcitic skarns occur, notably along Traverse D. Two samples (S 92-95A & -97) were sent for multielement assay, and anomalous values in nickel(100 ppm), copper(526 ppm), and zinc(113 ppm). were detected in sample 92-95A.

ECONOMIC CONSIDERATIONS(Traverses A,B,C,D,E, & F)
Wollastonite mineralization was not observed in outcrop, and while rock conditions seem suitable, silicification may not have been widespread or intensive enough. The anomalous base metals in sample 92-95A, occur in gossaned skarn zones, which do not appear to be large enough to be of economic significance.

ROCK DESCRIPTIONS (NORTH CANONTO TWP.-Traverses G,H,I,J,J-1, & K.
Calcitic marbles and silicified carbonates (skarns) were examined and mapped. The more highly silicated carbonates and skarns, lie within 600 to 700 feet of the trondhjemite intrusive.

Along traverses G,H, & I, at approximately 300 feet northwest of the intrusive/carbonate contact, a series of narrow granitic pegmatite dykes were observed. The carbonate rocks close to these pegmatites are more highly silicified, with minor development of tremolite.

Along traverses J. J-1, & K, a body of pure quartz (+98% SiO2-sample S 92-68) was discovered approximately 300 feet northwest of the trondhjemite, and appears to occupy the same "stratigraphic position" as the granitic pegmatites examined in traverses G,H, & I. In the immediate vicinity of this quartz body, the calcitic/dolomitic marbles are richer in diopside, and light green in colour. Thin section analysis was completed on sample S 92-91, and examination indicated an 85% diopside content. Wollastonite mineralization was not detected.

ECONOMIC CONSIDERATIONS(Traverses G,H,I,J,J-1, & K)
The quartz body which was discovered along traverses J & J-1 appears to have some economic potential, assuming additional tonnages of this material can be discovered. Sample S 92-68 is a grab sample, but appears to be representative of the overall SiO2 content of 97.8%. Prospecting for additional silica bodies should be completed, along strike and along the south side of the trondhjemite/carbonate contact. Although wollastonite has not been detected to date in the area, further prospecting and mapping for this commodity appears warranted, notably close to the carbonate/trondjemite contact, and in association with diopside.

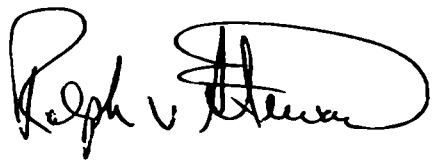
16. SOUTH CANONTO TWP.(Dwg. S 92-15)
ROCK DESCRIPTIONS:
Traverse A defined a number of calcitic & dolomitic outcrops, within 200 to 400 feet of a gabbro intrusive body. The carbonates have been silicated with the formation of skarn zones, a significant amount of tremolite, and minor diopside. Thin sections cut from samples 92-84 & 92-86, indicate a high percentage (50-90%) of tremolite. Fine disseminated sulphides (5-10%) occur interlayered with some of the carbonates.

Traverse B crossed the following rock sequences, at right angles

to, and approaching the gabbro intrusive: Hornblende/granite gneiss, interlayered carbonate/granitic gneiss, skarney "tremolitic marble" with disseminated sulphides, and massive gabbro. A multielement assay was completed on sample S 92-88, but yielded negative base and precious metal values.

Traverses C & D defined rock outcrops consisting mainly of calcitic marbles, and silicated diopside marble, both intruded by dykes of pink coloured granitic pegmatite dykes. Traces of garnet were noted in a few of the silicified carbonate outcrops.

ECONOMIC CONSIDERATIONS: (Traverses A,B,C, & D.
Wollastonite mineralization was not detected, but significant amounts of acicular tremolite were defined. If economic uses are found for this type of tremolite, the area definitely will warrant additional exploration and further evaluation.



APPENDIX

A

LIST OF SAMPLES COLLECTED-WITH GEOLOGY DESCRIPTION

Grab Sample Numbers	Project Number And Township	Sample Descriptions (See drawings for locations)
92-38	1-Snowden Twp.	White interbanded tremolitic dolomite & minor calcitic limestone.
92-39	" "	White calcitic dolomite with tremolite.
92-40	" "	Calcitic dolomite w/ 50% tremolite.
92-41	" "	Similar to 92-40 (Sample selected along escarpment face).
92-42	" "	"Bouldery" outcrop of calcitic dolomite with 35% tremolite.
92-43	" "	Red/white "spotted" calcitic marble.
92-74	" "	Gray to white and pinkish gray calcitic dolomite w/ 15-30% "glassey" tremolite.
92-75	" "	White to gray calcitic limestone with 10% "glassy" tremolite?
92-76	" "	Grayish blue calcitic limestone with minor tremolite & fine disseminated sulphides.
92-77****	" "	Brown coloured "gossaned magnetite" along gabbro-carbonate contact zone.
92-78	" "	White calcitic dolomite with 1% disseminated sulphides.
92-79	" "	White to gray & black coloured tremolitic dolomite.
92-80****	" "	White calcitic dolomite with 30% tremolite.

****--Samples selected for thin section analysis --See Appendix B-

---

92-30	2.- Galway Twp.	Gossaned (pyrite) and silicified skarn.
92-31	" "	Altered calcitic limestone with the development of brown & black mica.
92-32**	" "	Altered massive outcrop of calcitic limestone with massive pyrite from small pit adjacent road.
92-33	" "	Brown oxidized & silicated limestone with diopside & disseminated pyrite.

**** Selected for thin section analysis--Appendix B.
** Selected for multielemeny assay--See Appendix B.

Sample Analysis	Project Number And Township	Sample Descriptions (See drawings for locations)
92-1	3. Cavendish Twp. 1	Dark gray siliceous skarn rock.
92-2	"	Boulders of white dolomitic limestone w/ tremolite.
92-3	"	Calcitic limestone with "seams" of tremolite.
92-4	"	Diopside rich carbonate rock.
92-25 to -27	4. Cavendish Twp. 2	Whitish gray "laminated" calcitic limestone with minor alteration.
92-28	"	Contact zone between dolomite & a quartz vein (dolomitic limestone with tremolite).
92-29	"	Very white silicified limestone.
	5. Cavendish Twp. 3	No samples collected.
92-20A	6. Monmouth Twp.(N. West)	White to green "crumbly" calcitic limestone.
92-20B	" "	Granular limestone with disseminated sulphides.
92-22A	" "	Green coloured diopsidic rock (gossaned) with disseminated sulphides.
92-22B**		Gossaned diopsidic rock with disseminated sulphides.
92-23**	" "	Gossaned diopsidic rock (somewhat silicified) with 5% disseminated sulphide mineralization.
92-24	" "	Green diopsidic marble with very minor sulphide mineralization.
92-34	" (S. West)	Brownish white silicated skarn along escarpment face w/ fine disseminated sulphides.
92-34B	" "	Skarn rock with minor garnets.
92-35 & 36	" "	Quartz-feldspar rock with fine - disseminated (1%) pockets of pyrite
92-81	7. Faraday Twp -#1	Green diopsidic limestone-silicified

**--Samples selected for multielement assay --See Appendix B--

Sample Number	Project Number And Township	Sample Descriptions (See drawings for locations)
92-82	7. Faraday Twp. - # 1	Contact material between limestone & pegmatite dykes.
92-13	8. Faraday Twp. -# 2	Grayish white calcitic dolomite with minor tremolite crystals.
92-14	"	White to gray calcitic (tremolite rich) rock.
92-15	"	Calcitic limestone w/ "glassy tremolite".
92-16****	"	Gray to white calcitic limestone with 70% tremolite.
92-17	"	Calcitic dolomite with 20-30% bluish-white tremolite.
92-18	"	Similar to 92-16 (70% tremolite).
92-42A	9. Wollaston Twp. (East Sector)	Greenish gray calcitic limestone, with green diopside.
92-42B	"	Greenish coloured, silicified skarn.
92-53	(N.W. Sector)	Pale green diopsidic, calcitic, limestone.
92-54****	"	Pale green, silicified diopsidic marble.
92-55	"	Silicified diopsidic limestone.
92-56	"	Very white calcitic marble.
92-43	10. Limerick Twp.	Whitish gray calcitic limestone with interlayered silicified zones.
92-44	"	Bluish gray calcitic limestone with minor tremolite.
92-45	"	Black, medium grained gabbro with sillimanite.
92-46****	"	Bluish gray "laminated" calcitic limestone with tremolite.

****--Samples selected for analysis -- See Appendix B--

****--Samples selected for analysis--See Appendix B--

****-- Samples selected for analysis--See Appendix B--

Grab Sample Number	Project Number And Township	Sample Descriptions (See drawings for locations)
92-47	10. Limerick Twp.	Dark gray coloured, fine grained skarn.
92-48	"	White to gray silicated limestone with develoipment of tremolite.
92-49	"	Greenish gray (diopsidic) calcitic limestone--gneissic.
92-50	"	Brownish-white, granular silicated limestone, with black hornblende.
92-51	"	Silicated limestone--contact rock with the development of diopside.
92-52	"	Diopsidic marble (calcitic)
92-5	11. Ashby/Mayo Twp. (West Sector)	Interlayered calcitic & silicated limestone with finely disseminated pyrite.
92-6	"	Finely banded "skarney" limestone with fine grained sulphide mineralization.
92-7	"	Silicified skarn zone, with interlayered garnet and tremolite bearing zones.
92-8	"	White fibrous (tremolitic) calcitic limestone.
92-9	"	Highly siliceous skarn, with 4% fine disseminated sulphides.
92-10	"	White/mauve coloured calcitic limestone with minor brown mica flakes.
92-11****	"	White calcitic limestone with tremolite.
92-105**	(Parkhurst LK. Sector)	Brown "gossaned" quartzitic gneiss with 5% disseminated pyrite.
92-106**	"	Dark green, fine grained volcanic schist with 8% disseminated sulphides.
92-107**	"	Similar to 92-106.
92-108**	"	Similar to 92-106.
92-109	"	Mica/quartz gneiss with minor sillimanite.
92-110**	"	Gossaned, silicified skarn zone in dark green silcated volcanic schist.
92-111**		Similar to 92-106
92-112**		Siliceous quartzitic volcanic gneiss with disseminated sulphides.

****-- Samples selected for thin section analyses--See Appendix B-
** -Samples selected for multielement assay analysis--Appendix B

Grab Sample Number	Project Number And Township	Sample Descriptions (See drawings for locations)
92-69	12. Ashby Twp.-1 (Trout Lk. Area)	Tremolite in white dolomitic rock.
92-70	"	Talcy, tremolitic dolomite.
92-71	"	Green coloured, silicated dolomite with 70% tremolite.
92-72	"	Calcitic limestone with 30% tremolite.
92-73	"	White tremolitic, calcitic limestone.
92-102****	"	White coloured calcitic limestone with 30% tremolite.
92-103	"	White "glassy tremolite bearing" calcitic limestone.

****-- Samples selected for thin section analysis--See Appendix B-

---

-----	13. Ashby Twp.-2 (Ruby Garnet property)	No samples collected.

92-57****	14. Brougham Twp.	Black fine grained, calc.-silicate gneiss with < 5% apatite and minor small red fluorite crystals.
92-58	"	Fine-coarse grained calc-silicate gneiss with minor fluorite.
92-59	"	Pink to mauve coloured, silicated contact rock.
92-60	"	Coarse grained calc-silicate gneiss with minor (5%) apatite.
92-61	"	White-green coloured calc-silicate gneiss, with 30% green garnets?
92-62	"	Similar to sample 92-61.
92-62A	"	Diopsidic marble in calc-silicate groundmass.
92-62B	"	Massive white silicated limestone.
92-63	"	Gossaned calc-silicate interlayered with calcitic limestone.

****-- Samples selected for thin section analysis--See Appendix B

92-64	North Canonto/	White dolomite.
92-65	Brougham Twps. (Brougham Sector)	Brown/red coloured, gossaned & silicated skarn.

Grab Sample Number	Project Number And Township	Sample Descriptions (See drawings And locations)
92-66	15. North Canonto /Brougham Twp.	Brown coloured, "gossaned", silicated skarn.
92-67	(N. Canonto	White silicated skarn (gneissic).
92-68**	Sector)	Glassy, vitreous quartz sample.
92-90	"	Diopsidic marble.
92-91****	"	Diopside marble with tremolite.
92-92	"	White calcitic/diopsidic
92-93	"	Calcitic limestone with white tremolite.
92-94	"	White tremolitic, calcitic limestone.
92-95	"	Gray calcitic (tremolitic) limestone.
92-95A**	(Brougham Twp.	Highly gossaned, limonitic skarn
	Sector)	rock.
92-96	"	Pyritiferous gray siliceous skarn.
92-97**	"	Massive nodule of highly gossaned, sulphide bearing skarn.
92-98	"	Skarn zone along highway, close to hydro line crossing.

****-- Samples selected for thin section analysis--See Appendix B
** -- Samples selected for multielement assay-See Appendix B

92-83	16. South Canonto Twp.	White dolomitic marble with tremolite.
92-84****	"	Dolomitic limestone with glassy tremolite crystals.
92-85	"	Green diopsidic marble with tremolite.
92-86****	"	White calcitic dolomite with tremolite.
92-87	"	Similar to 92-86.
92-88	"	Silicated granitic rock, gossaned (pyritized).
92-89	"	Silicated, dolomitic limestone with 5% disseminated pyrite.
92-99	"	Impure calcitic limestone with minor mica and 20-30% green diopside.
92-100	"	Impure calcitic skarn with trace of garnet.
91-101	"	Impure silicified calcitic limestone with green diopside.

****-- Samples selected for thin section analysis--See Appendix B
**--Samples selected for multielement assay--See Appendix B

APPENDIX B.

INDEX PAGE FOR MULTIELEMENT CHEMICAL ANALYSIS AND THIN SECTIONS

B-1

XRAL

X-RAY ASSAY LABORATORIES

A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 20784

TO: RALPH V. STEWART
244 KEEWATIN STREET SOUTH
OSHAWA, ONTARIO
L1H 6Z8

CUSTOMER No. 40

DATE SUBMITTED
6-Oct-92

REF. FILE 13482-B2

Total Pages 5

12 ROCKS

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
NA PPM	DCP	100.
WRMAJ %	WR	.01
MG PPM	DCP	100.
P PPM	DCP	10.
TI PPM	DCP	2.
CR PPM	DCP	2.
WRMIN PPM	WR	10.
MN PPM	DCP	2.
FE PPM	DCP	100.
CO PPM	DCP	1.
NI PPM	DCP	1.
CU PPM	DCP	.5
ZN PPM	DCP	.5
MO PPM	DCP	1.

	METHOD	DETECTION LIMIT
AG PPM	DCP	.5
CD PPM	DCP	1.
LA PPM	NA	.1
CE PPM	NA	1.
ND PPM	NA	3.
SM PPM	NA	.01
EU PPM	NA	.05
TB PPM	NA	.1
YB PPM	NA	.05
LU PPM	NA	.01
PT PPB	FADCP	10.
PB PPM	DCP	2.
TH PPM	NA	.2
U PPM	NA	.1

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS IN 90 DAYS ***
AND REJECTS IN 30 DAYS FROM THE DATE OF THIS REPORT

DATE 13-NOV-92

CERTIFIED BY .....

Jean H.L. Opdebeeck, General Manager

XRAL

NOTE: As per our list of upper limits in our current schedule of services, some of the results are outside the applicable analytical range. Please contact us should you require assays.

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

XRAL

13-NOV-92 REPORT 20784 REF.FILE 13482-B2 PAGE 1 OF 5

SAMPLE	AU PPB	NA PPM	MG PPM	P PPM	TI PPM	CR PPM	MN PPM	FE PPM	CO PPM
92-22B	7	3670	75500	270	538	49	862	17200	6
92-23	5	7280	101000	535	1130	55	1010	31000	11
92-32	11	4990	56200	1750	7540	43	208	278000	62
92-95A	<1	16800	20300	698	1820	37	198	40700	6
92-97	<1	2780	10100	959	6390	9	362	356000	127
92-105	3	6050	34200	860	4150	84	2100	77600	32
92-106	3	4270	23100	1190	3570	67	2600	61800	28
92-107	7	6600	25200	2570	3530	86	2240	42900	26
92-108	6	6710	22700	1230	3260	70	1930	38100	22
92-110	5	14500	103000	652	3130	73	3150	24300	16
92-77	--	14500	47400	1610	679	12	333	272000	15

XRAL

SAMPLE	NI PPM	CU PPM	ZN PPM	MO PPM	AG PPM	CD PPM	LA PPM	CE PPM	ND PPM
92-228	9	20.3	161.	132	<.5	<1	--	--	--
92-23	6	39.5	197.	63	<.5	<1	--	--	--
92-32	49	99.0	71.1	1	1.4	<1	--	--	--
92-95A	11	22.5	120.	13	<.5	<1	--	--	--
92-97	100	526.	113.	22	.6	<1	--	--	--
92-105	63	68.1	135.	3	<.5	<1	--	--	--
92-106	84	73.9	575.	80	<.5	6	--	--	--
92-107	143	77.6	423.	70	<.5	3	--	--	--
92-108	96	65.2	164.	105	<.5	2	--	--	--
92-110	25	71.6	71.0	4	<.5	1	--	--	--
92-77	2	5.9	37.2	<1	<.5	<1	5.8	14	9

XRAL

SAMPLE	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	PT PPB	PB PPM	TH PPM	U PPM
92-228	--	--	--	--	--	<10	19	--	--
92-23	--	--	--	--	--	10	9	--	--
92-32	--	--	--	--	--	<10	6	--	--
92-95A	--	--	--	--	--	10	2	--	--
92-97	--	--	--	--	--	<10	<2	--	--
92-105	--	--	--	--	--	<10	23	--	--
92-106	--	--	--	--	--	14	22	--	--
92-107	--	--	--	--	--	<10	8	--	--
92-108	--	--	--	--	--	<10	6	--	--
92-110	--	--	--	--	--	<10	5	--	--
92-77	2.57	.62	.4	1.63	.28	--	<2	2.1	.5

XRAL

XRF - WHOLE ROCK ANALYSIS 13-NOV-92 REPORT 20784 REFERENCE FILE 13482 PAGE 4 of 5

SAMPLE \ %	SIO2	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	LOI	SUM
92-68	97.8	<.01	1.23	.42	<.01	<.01	.04	.01	.022	.03	.75	100.3

XRF W.R.A. SUMS INCLUDE ALL ELEMENTS DETERMINED. FOR SUMMATION, ELEMENTS ARE CALCULATED AS OXIDES

XRAL

XRF - WHOLE ROCK ANALYSIS 13-NOV-92 REPORT 20784 REFERENCE FILE 13482 PAGE 5 of 5

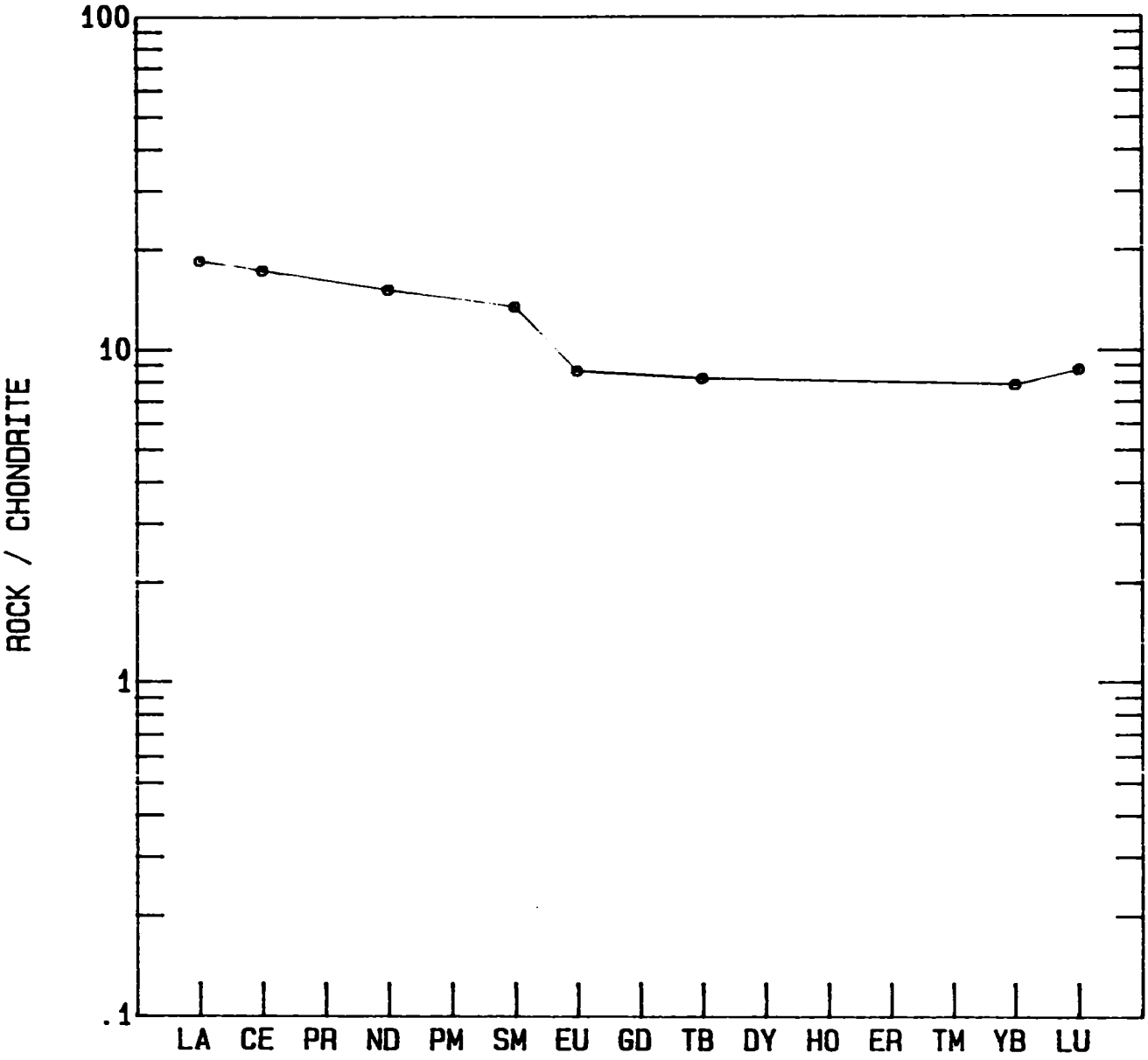
SAMPLE \ PPM	CR	RB	SR	Y	ZR	NB	BA
92-68	24	11	<10	<10	<10	25	27

X-RAY ASSAY LABORATORIES 1885 Leslie Street Don Mills Ontario M3B 3J4 (416)445-5755 Fax (416)445-4152 Tlx 06-986947
Member of the SGS Group (Société Générale de Surveillance)

X-RAY ASSAY LABORATORIES 13-NOV-92
RARE EARTH CHONDRITE PLOTS

RALPH V. STEWART
(REF# 13482)

- 92-77



XRAL

X-RAY ASSAY LABORATORIES 13-NOV-92 RALPH V. STEWART (REF# 13482) CHONDRITE NORMALIZED VALUES

SAMPLE	LA	CE	PR	ND	SM	EU	GD	TB	DY	HO	ER	TM	YB	LU
92-77	18.4	17.2	.0	15.1	13.4	8.6	.0	8.2	.0	.0	.0	.0	7.8	8.7

CHONDRITE RARE EARTH ELEMENT FACTORS USED TO NORMALIZE THE SAMPLE DATA :

LA .3150	CE .8130	PR .1000	ND .5970	SM .1920	EU .0722	GD .2590	
TB .0490	DY .3250	HO .0720	ER .2130	TM .0320	YB .2090	LU .0323	

B-10

XRAL X-RAY ASSAY LABORATORIES

A DIVISION OF SGS SUPERVISION SERVICES INC.
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

CERTIFICATE OF ANALYSIS

REPORT 21176

TO: RALPH V. STEWART
244 KEEWATIN STREET SOUTH
OSHAWA, ONTARIO
L1H 6Z8

CUSTOMER No. 40

DATE SUBMITTED
3-Nov-92

REF. FILE 13692-C4

Total Pages 2

4 ROCKS

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
NA PPM	DCP	100.
MG PPM	DCP	100.
P PPM	DCP	10.
TI PPM	DCP	2.
CR PPM	DCP	2.
MN PPM	DCP	2.
FE PPM	DCP	100.
CO PPM	DCP	1.
NI PPM	DCP	1.
CU PPM	DCP	.5
ZN PPM	DCP	.5
MO PPM	DCP	1.
AG PPM	DCP	.5
CD PPM	DCP	1.
PT PPB	FADCP	10.
PB PPM	DCP	2.

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS IN 90 DAYS ***
AND REJECTS IN 30 DAYS FROM THE DATE OF THIS REPORT

DATE 24-NOV-92

CERTIFIED BY .....

Jean H.L. Opdebeeck, General Manager

XRAL

24-NOV-92 REPORT 21176 REF.FILE 13692-C4 PAGE 1 OF 2

SAMPLE	AU PPB	NA PPM	MG PPM	P PPM	TI PPM	CR PPM	MN PPM	FE PPM	CO PPM
92-9	<1	22500	33300	1560	19500	86	805	83300	40
92-88	1	1090	8530	854	2130	54	217	73400	8
92-111	<1	11100	14700	1230	3770	58	1330	34800	16
92-112	<1	3100	35200	823	3520	62	1760	38300	22

XRAL

SAMPLE	NI PPM	CU PPM	ZN PPM	MO PPM	AG PPM	CD PPM	PT PPB	PB PPM
92-9	56	140.	583.	9	<.5	2	<10	38
92-88	40	89.1	42.1	21	<.5	<1	15	5
92-111	59	50.8	146.	94	<.5	1	<10	13
92-112	63	54.1	376.	28	<.5	4	<10	25

HYDRISAR SYSTEMS INC.

398 Huron Street, Toronto, Ontario, Canada M5S 2G6 phone: (416) 351-9390 fax: (416) 897-0669

THIN SECTION ANALYSIS

SAMPLE NUMBER: 92-11
ROCK NAME: Calc-silicate (skarn)

ROCK DESCRIPTION:

The sample is coarse-grained consisting of white to cream acicular amphibole minerals.

THIN SECTION DESCRIPTION:

Medium grained throughout the section. Acicular amphibole minerals occur in bundles. Calcite found in fractures. Metamorphic paragenisis is low-grade (greenschist facies). The protolith is an impure limestone.

MINERALS:

50% fiberous tremolite
20% diopside (biaxial + pyroxene)
<5% carbonate
<5% biotite
<5% talc

ECONOMIC NOTES:

Talc is insignificant. This sample should be analyzed by XRD for minor wollastonite.

HYDRISAR SYSTEMS INC.

398 Huron Street, Toronto, Ontario, Canada M5S 2G6 phone: (416) 351-9390 fax: (416) 897-0669

[redacted]

THIN SECTION ANALYSIS

SAMPLE NUMBER: 92-16
ROCK NAME: Tremolitite

ROCK DESCRIPTION:

Light-coloured minerals with equigranular medium grained crystalline texture, weathers dark-grey.

THIN SECTION DESCRIPTION:

The rock is comprised of bands of amphiboles with carbonate dissolution. The minerals display granoblastic texture with a slight decussate tendency.

MINERALS:

85% tremolite
10% carbonate
<5% apatite

ECONOMIC NOTES:

[redacted]

SAMPLE NUMBER: 92-80
ROCK NAME: Calc-silicate (skarn)

ROCK DESCRIPTION:

Light to cream coloured acicular minerals with 2 cm maximum length. Inside core of sample buff-white, massive.

THIN SECTION DESCRIPTION:

Coarse porphyroblasts floating in a carbonate groundmass. Sample shows grain size zonation. Large euhedral grains are found in the interior and the edge shows dissolution to calcite.

MINERALS:

75% tremolite
10% diopside
15% carbonate

ECONOMIC NOTES:

[redacted]

HYDRISAR SYSTEMS INC.

398 Huron Street, Toronto, Ontario, Canada M5S 2G6 phone: (416) 351-9390 fax: (416) 897-0669

THIN SECTION ANALYSIS

SAMPLE NUMBER: 92-46
ROCK NAME: laminated marble

ROCK DESCRIPTION:

The sample has light grey to dark grey bands of varying thickness.

THIN SECTION DESCRIPTION:

Large carbonate crystals, slightly pleochroic phlogopite . Limestone protolith. Darker bands have high heavy mineral content. The crystals have a slight parallel alingment with curved grain boundaries and minor exosolution of the carbonate.

MINERALS:

80% carbonate
10% quartz
5% phlogopite ($KMg_3Al(OH)Si_4O_{10}$)
5-10% heavy minerals: -oxides, apatite, touramaline

ECONOMIC NOTES:

There are a variety of heavy minerals present in this sample, imparting the dark colour to some laminations. An analysis should be done on the sample to determine metallic constituents. This sample may contain graphite (opaques).

HYDRISAR SYSTEMS INC.

398 Huron Street, Toronto, Ontario, Canada M5S 2G6 phone: (416) 351-9390 fax: (416) 897-0669

[redacted]

THIN SECTION ANALYSIS

SAMPLE NUMBER: 92-54
ROCK NAME: siliceous marble

ROCK DESCRIPTION:

Dark to light green in hand-specimen. Fine-grained, granoblastic texture.

THIN SECTION DESCRIPTION:

Equigranular grains exhibiting granoblastic texture, subhedral carbonate, exsolution of randomly oriented feldspars common.
Sutured quartz.

MINERALS:

35% quartz
20% wollastonite (biaxial -, 84°cleavage, short crystals)
20% feldspar
15% carbonate
5% scapolite
<5% zoisite (epidote group, titanite)

ECONOMIC NOTES:

This sample should be analyzed by XRD to confirm wollastonite mineralization.

HYDRISAR SYSTEMS INC.

398 Huron Street, Toronto, Ontario, Canada M5S 2G6 phone: (416) 351-9390 fax: (416) 897-0669

THIN SECTION ANALYSIS

SAMPLE NUMBER: 92-57
ROCK NAME: Amphibolite

ROCK DESCRIPTION:

The hand specimen is medium to fine grained with schistose structure.

THIN SECTION DESCRIPTION:

There is anomalous sphene in this sample. The equigranular calcic feldspars show dissolutions and faint parallel alignment. The protolith is likely a mafic volcanic.

MINERALS:

30% quartz
30% hornblende
20% biotite
10% feldspar
<5% sphene
3% apatite
<2% zircon

ECONOMIC NOTES:

No comment.

HYDRISAR SYSTEMS INC.

398 Huron Street, Toronto, Ontario, Canada M5S 2G6 phone: (416) 351-9390 fax: (416) 897-0669

[redacted]

THIN SECTION ANALYSIS

SAMPLE NUMBER: 92-86
ROCK NAME: Calc-silicate (skarn)

ROCK DESCRIPTION:

The sample consists of white coarse to medium grained amphibole crystals with a granoblastic texture.

THIN SECTION DESCRIPTION:

Metamorphic paragenesis is low-grade (greenschist facies). The protolith is an impure limestone.

MINERALS:

60% tremolite
20% diopside
20% carbonate

ECONOMIC NOTES:

[redacted]

No comment.

SAMPLE NUMBER: 92-91
ROCK NAME: Diopsidic marble

ROCK DESCRIPTION:

The sample is coarse-grained consisting of light green, with medium sized amphibole minerals and dark alteration on the weathered surface.

THIN SECTION DESCRIPTION:

Medium grained throughout the section with decussate texture. Twinned amphibole crystals.

MINERALS:

85% diopside
<5% secondary carbonate

ECONOMIC NOTES:

[redacted]

No comment.

HYDRISAR SYSTEMS INC. B-18

398 Huron Street, Toronto, Ontario, Canada M5S 2G6 phone: (416) 351-9390 fax: (416) 897-0669

THIN SECTION ANALYSIS

SAMPLE NUMBER: 92-102
ROCK NAME: tremolite marble

ROCK DESCRIPTION:

White prismatic crystals with parallel alignment, minor occurences of soft sub-metallic mineral, thought to be graphite.

THIN SECTION DESCRIPTION:

This rock consists of a melange of tremolite crystals and carbonate, with minor talc. Main textural feature is granoblastic while some grains reveal exosolution features.

MINERALS:

55% carbonate
40% tremolite
<5% talc

ECONOMIC NOTES:

Minor talc and possibly graphite (opaque).

SAMPLE NUMBER: 92-84
ROCK NAME: Tremolitite

ROCK DESCRIPTION:

Grey acicular mineral of medium size with pyrite grains averaging 1-3 mm in size.

THIN SECTION DESCRIPTION:

The rock is comprised of bands of amphiboles and carbonates with an aligned texture. Carbonate pseudomorphs around a central opaque grain are common. Texture is granoblastic showing plastic deformation by intragranular glide.

MINERALS:

90% tremolite
15% carbonate
<5% opaques

ECONOMIC NOTES:

No comment.

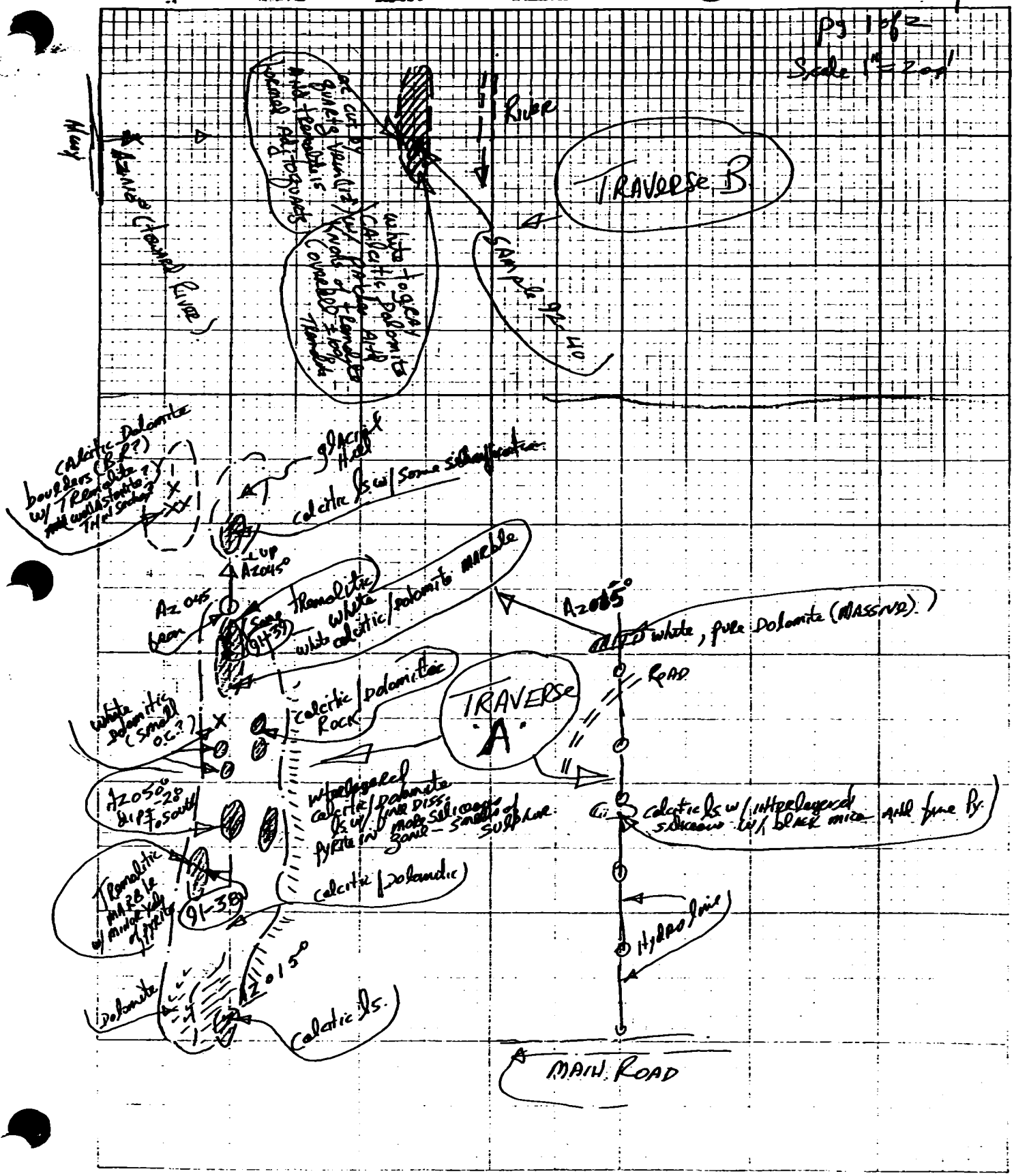
APPENDIX C.

June 23/92

① SNOWDEN TWP

Pg 1 of 2

Scale 1" = 20'

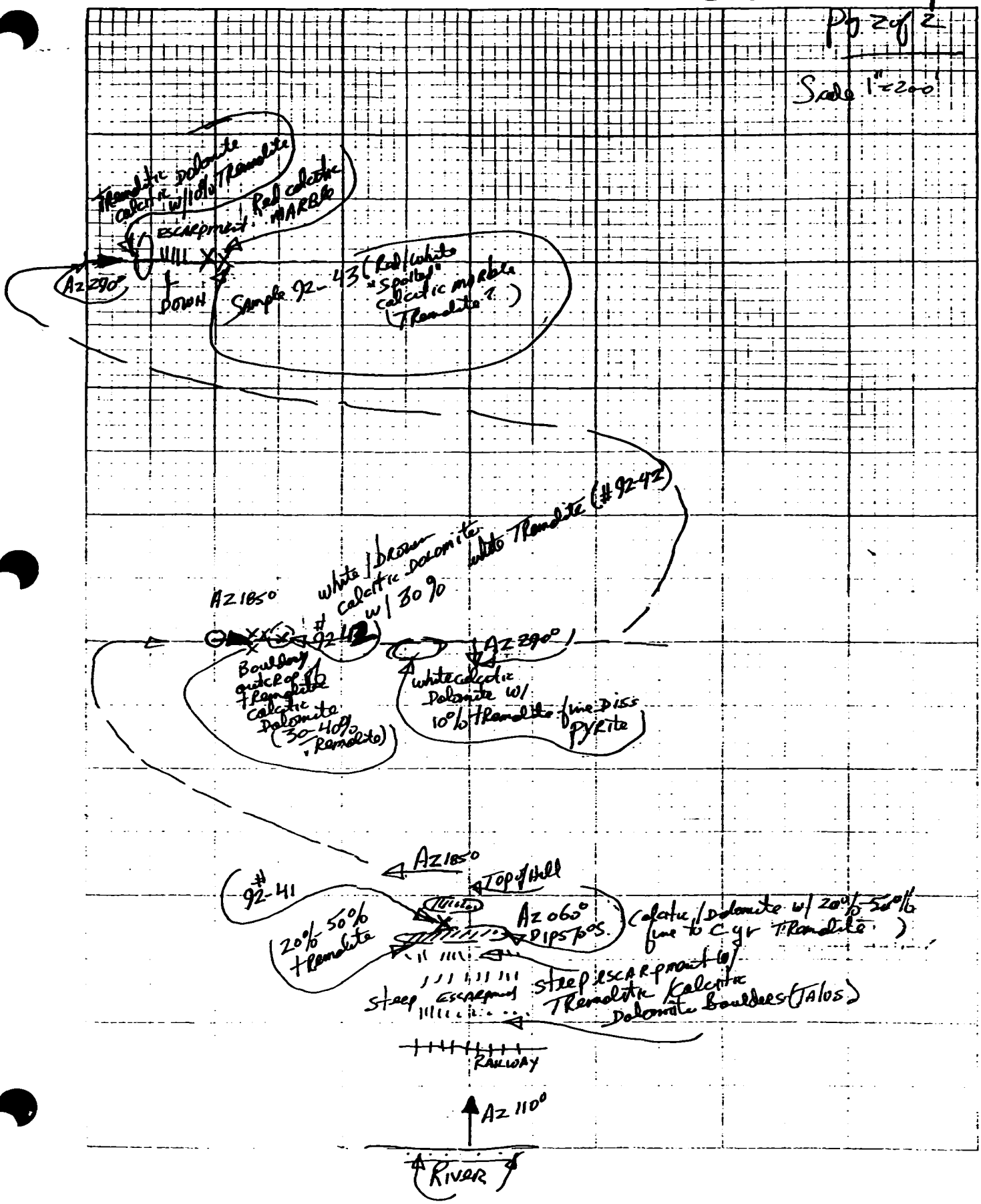


June 23/92

(1) Snowden Map

Pg 2 of 2

Scale 1" = 200'

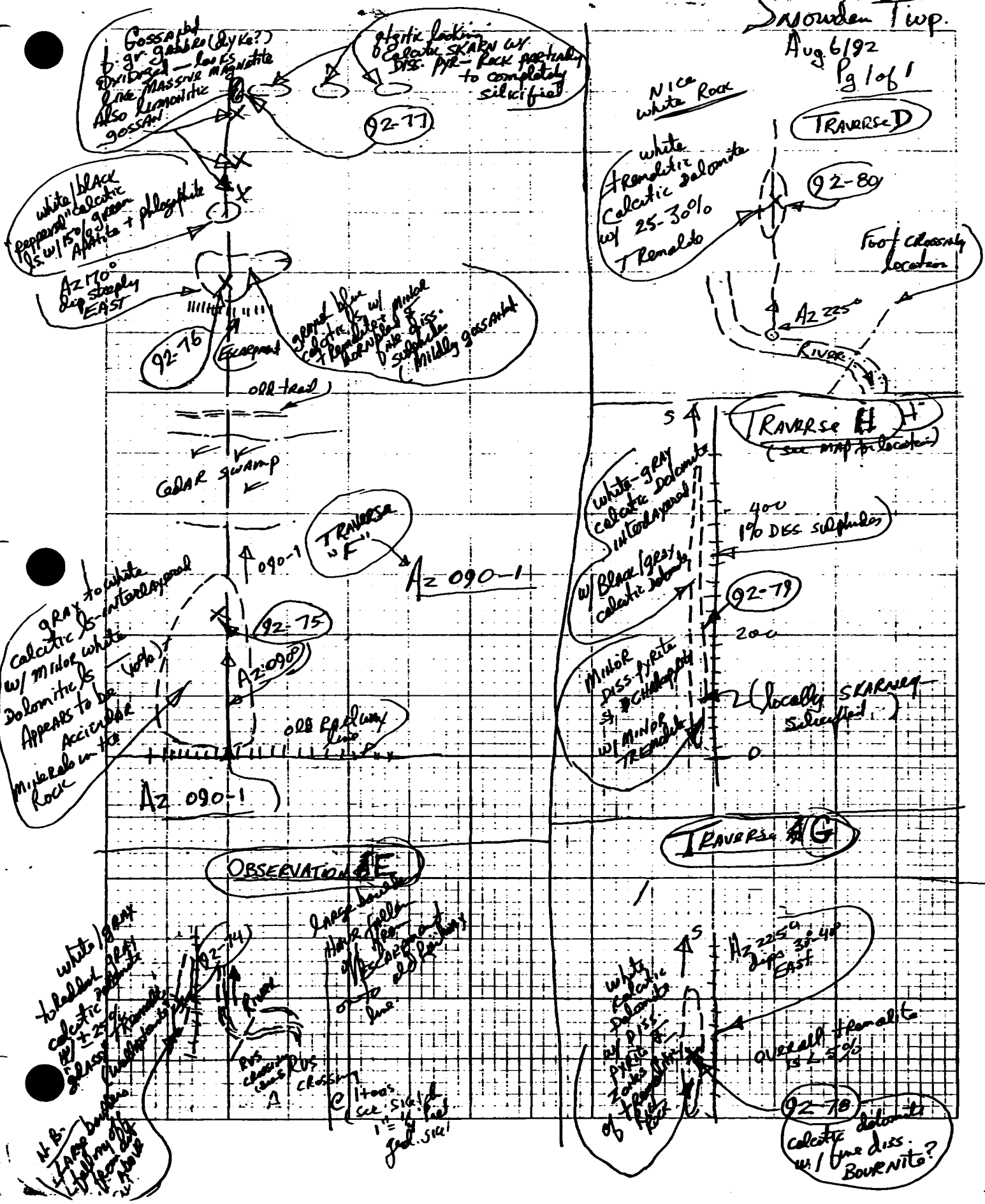


Scale 1" = 200'

Saunders Twp.

Aug. 6/92

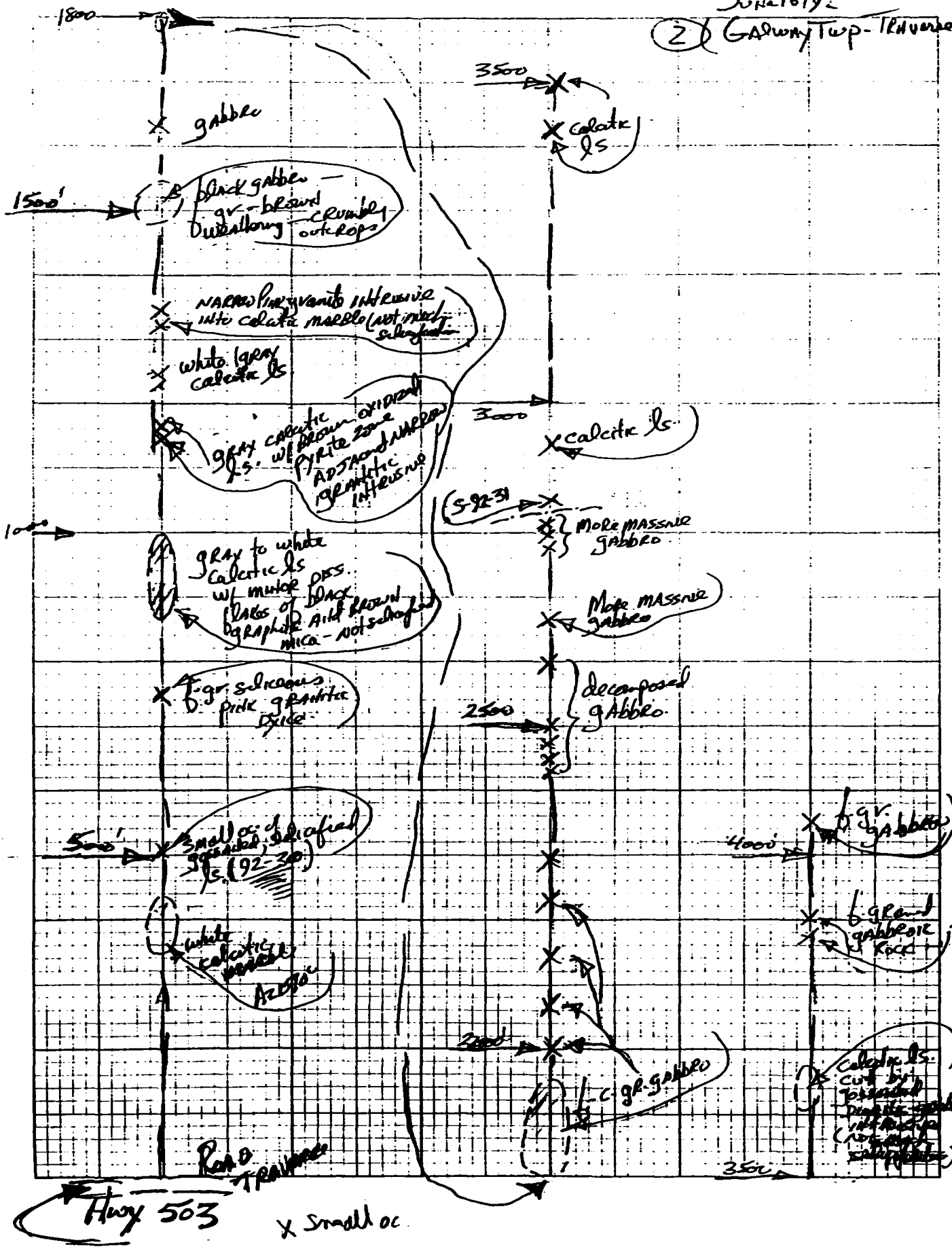
Pg 1 of 1



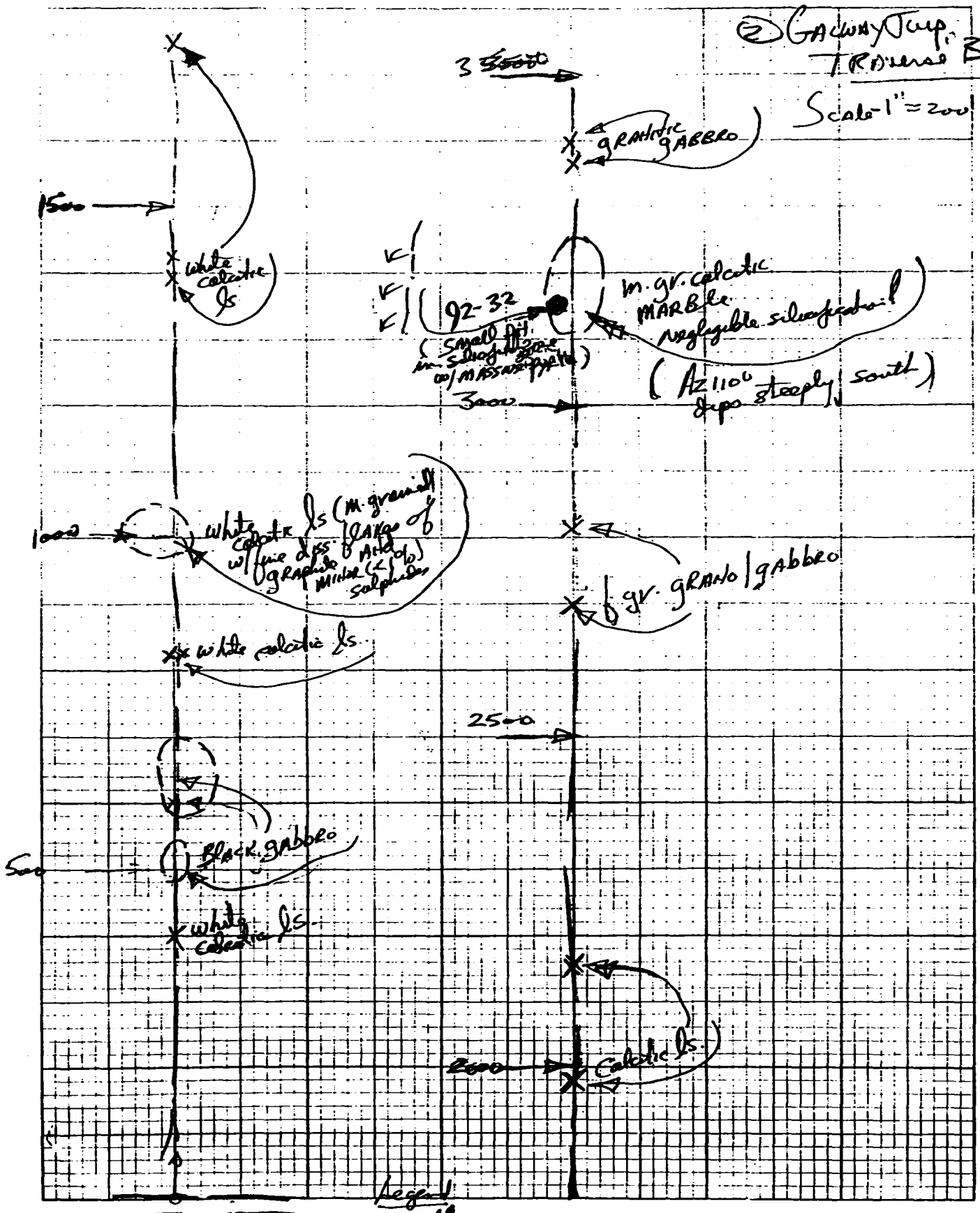
SCALE: 1" = 200'

June 16/92

(2) Galway Twp - Traverse A

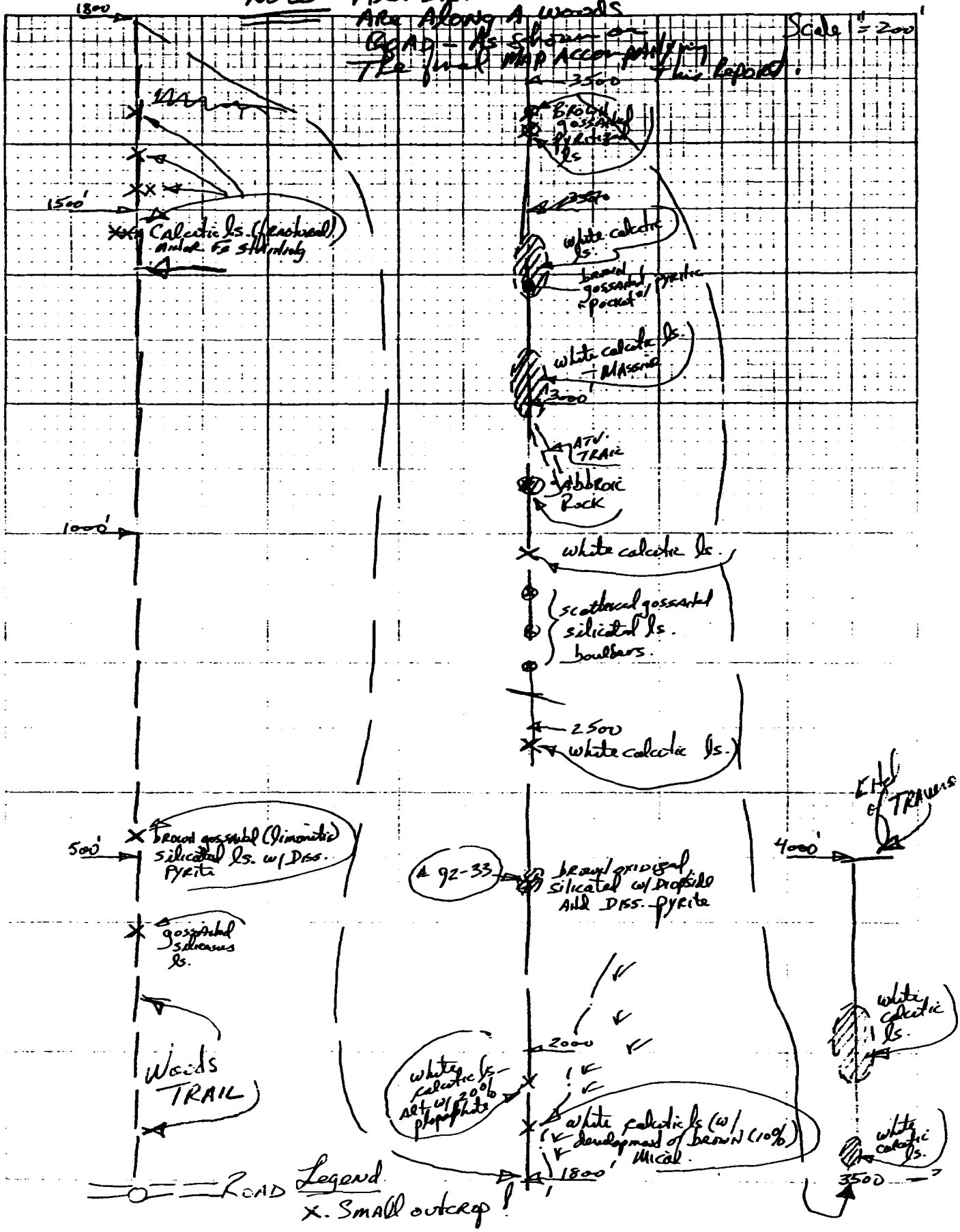


June 16/92


Gagnon Twp. "B" Traverse
Scale 1" = 200'
3500
graphitic gabbro
1500
white calcitic ls
92-32
(small pit in slaughterite zone w/ massive pyrite)
m. gr. calcitic MARBLE negligible silicification
(Az 110° dips steeply south)
3000
1000
white calcitic ls (m. grained w/ fine diss. flakes of graphite minor (<1%) sulphides)
f. gr. grano gabbro
white calcitic ls
2500
Black gabbro
white calcitic ls
2000
Calcitic ls.
Legend
Hwy. 503
x Small ac.

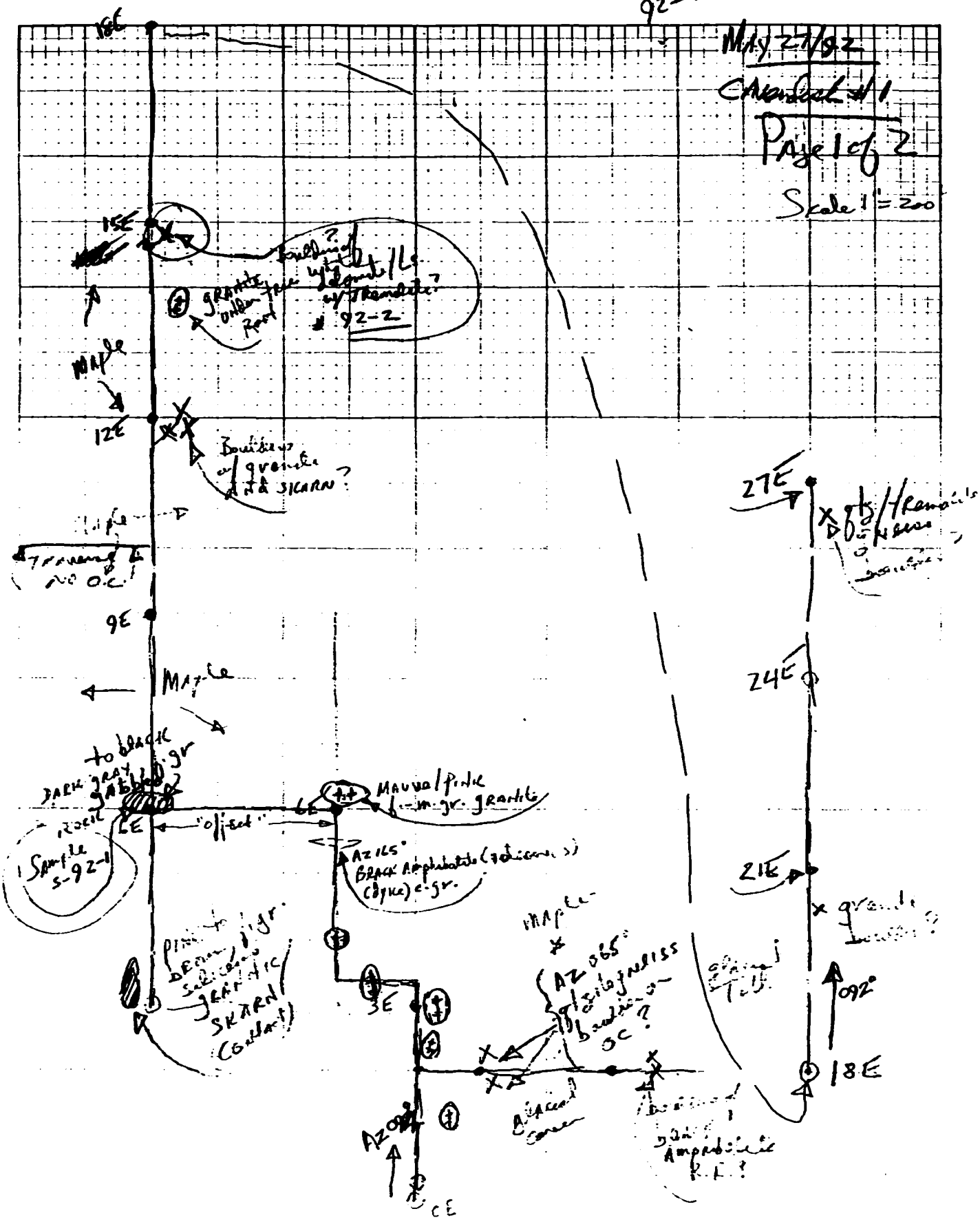
June 16 92
(2) Galloway Twp
"Traverse "C"

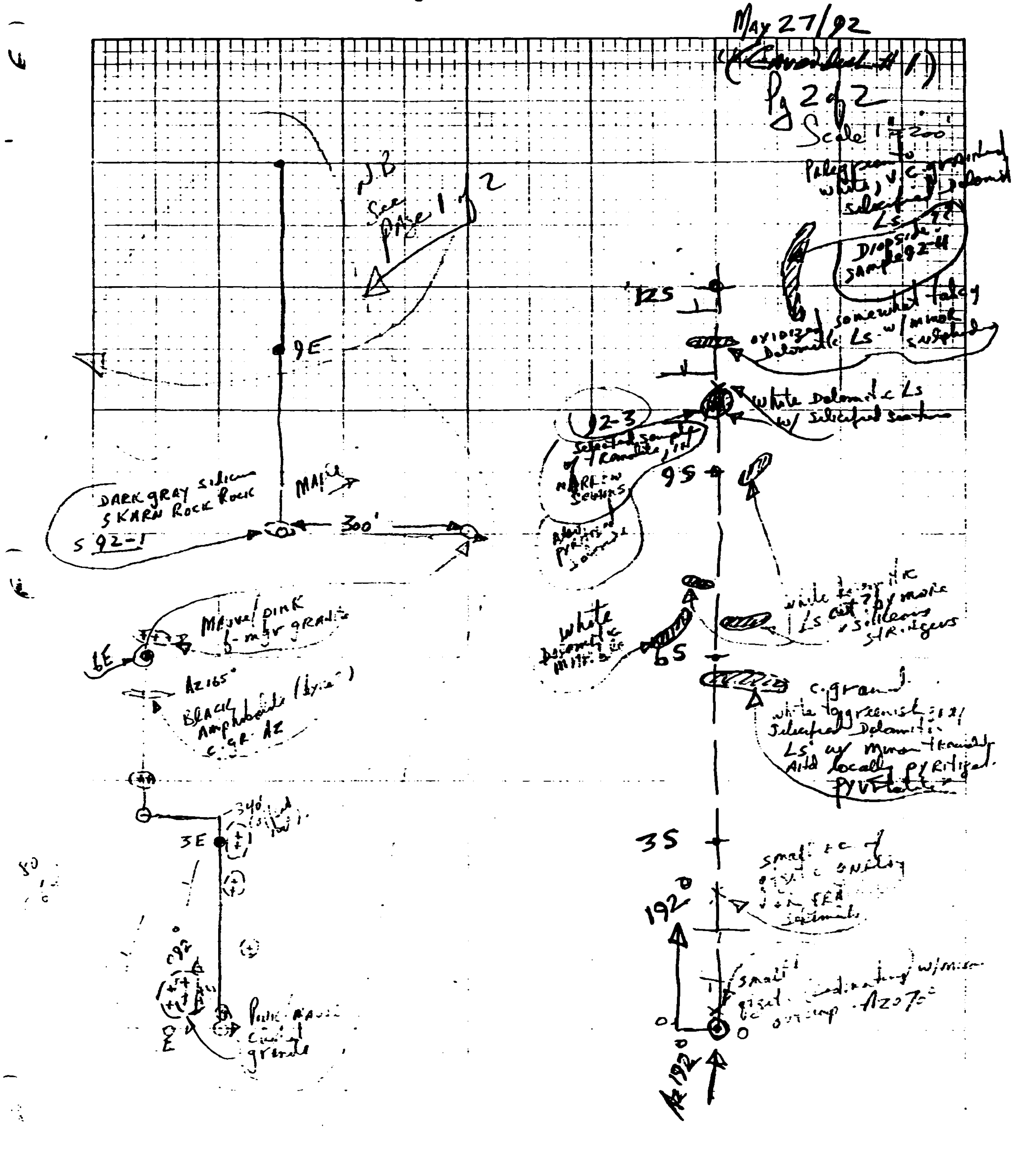
Note: All distances shown are along a woods road - as shown on the field map accompanying this report.



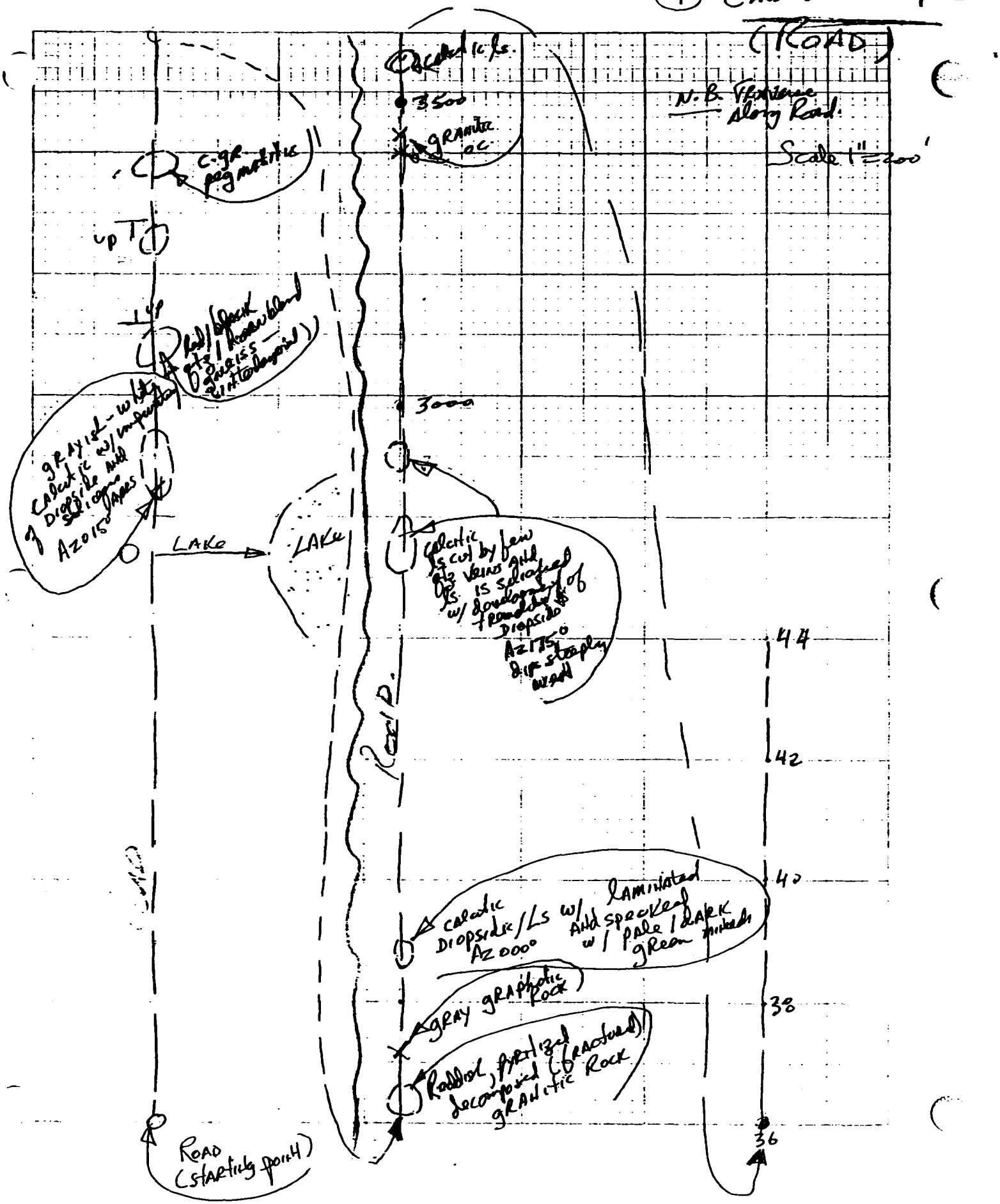
C-7

92-1
92-2
92-3
92-4



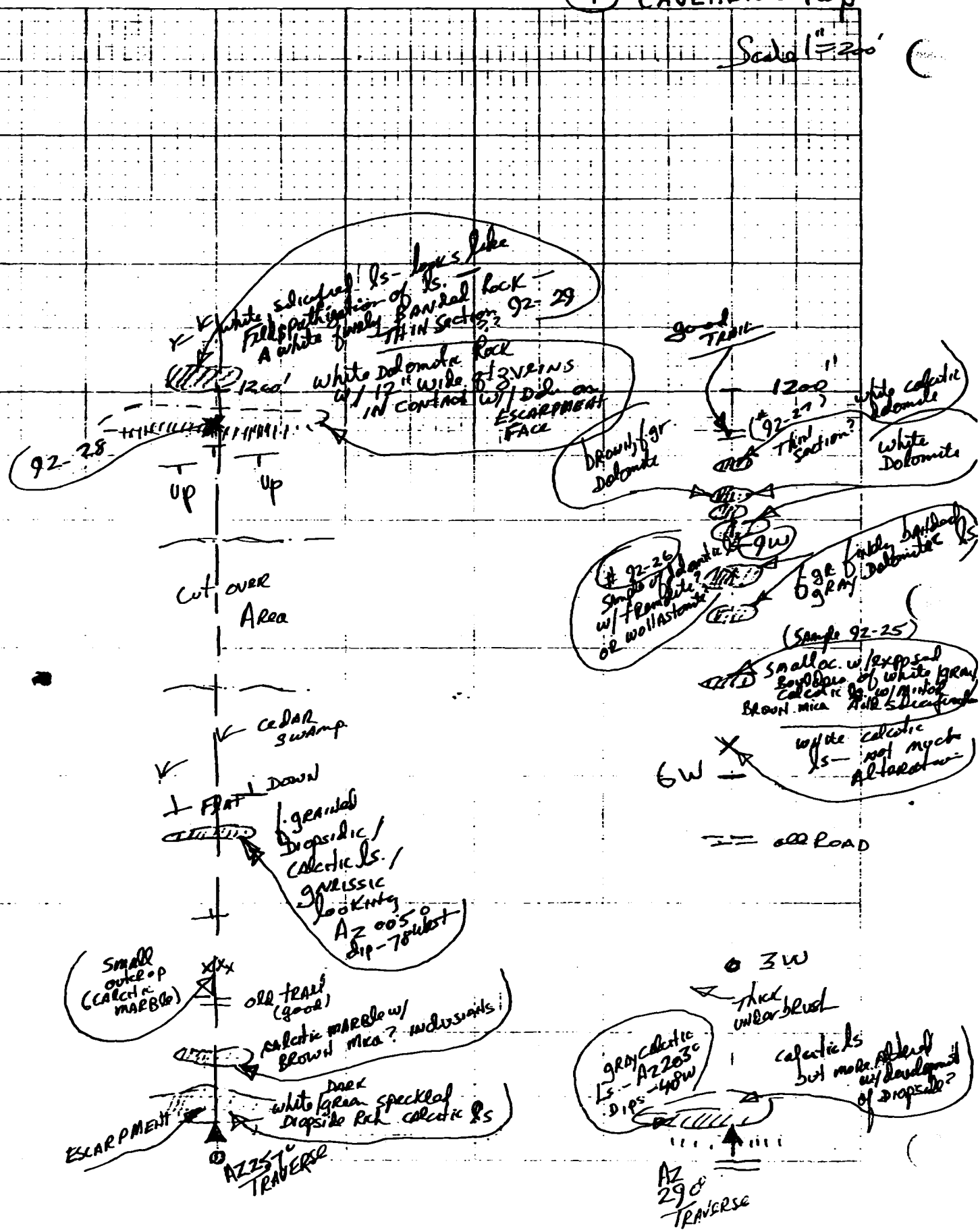

May 27/92
Pg 2 of 2
Scale 1" = 200'
See page 1 of 2
9E
12S
9S
6S
3S
3E
6E
300'
MAFIC
DARK GRAY siliceous SKARN ROCK
S 92-1
92-3
Diopside sample 92-4
somewhat talcy Ls w/ minor sulphides
oxidized Dolomitic Ls
white Dolomitic Ls w/ silicified sections
Mauve/pink f-m gr granite
Az 165°
BLACK Amphibolite
white Dolomitic
c. grained
white to greenish silicified Dolomitic Ls w/ minor tremolite and locally pyritized
340'
192°
Az 192°
Az 075°
Pink mauve granite

June 15/92
(4) Cavendish Trip 2

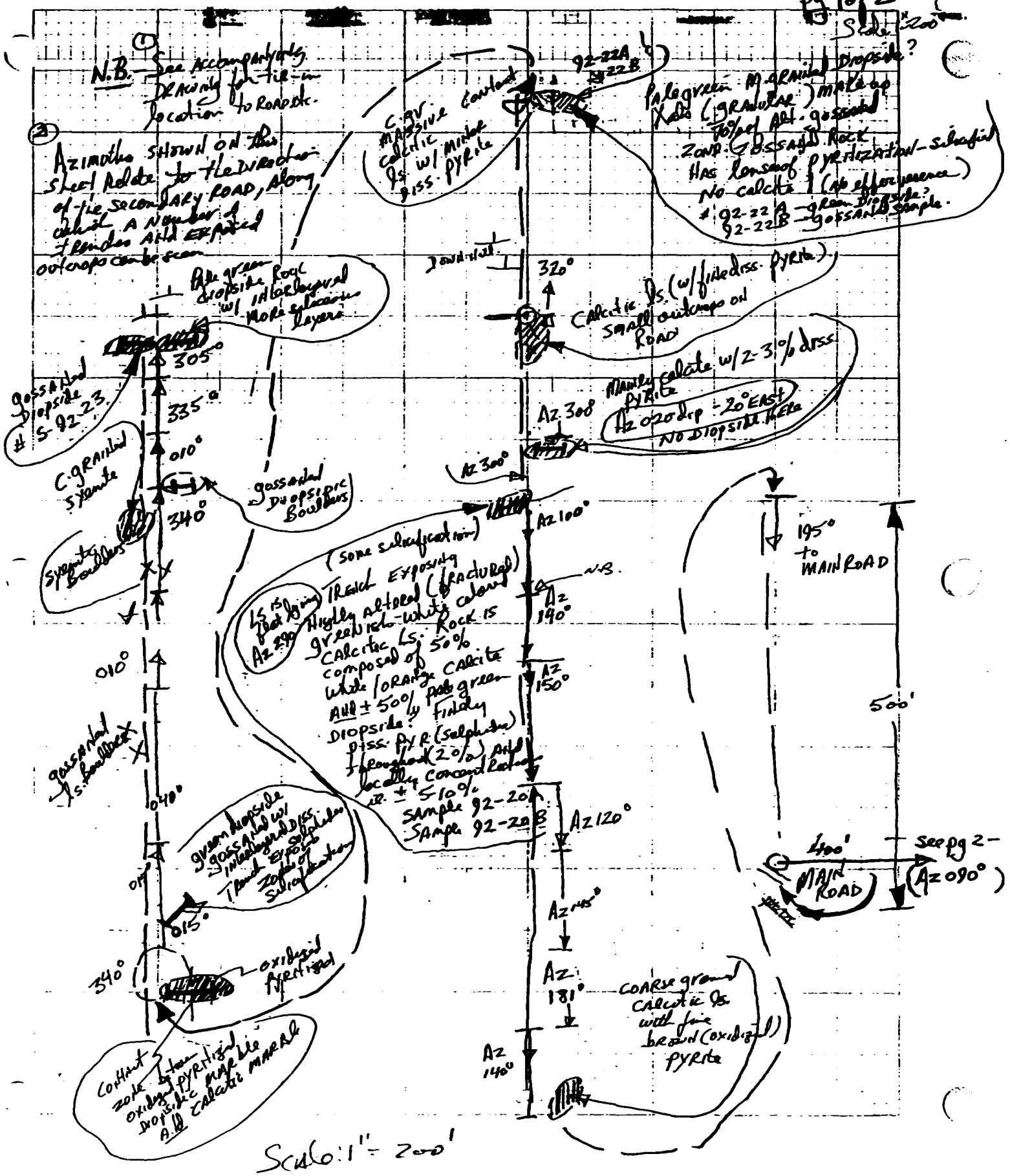


(4) June 15/92 CAVENDISH Twp 2

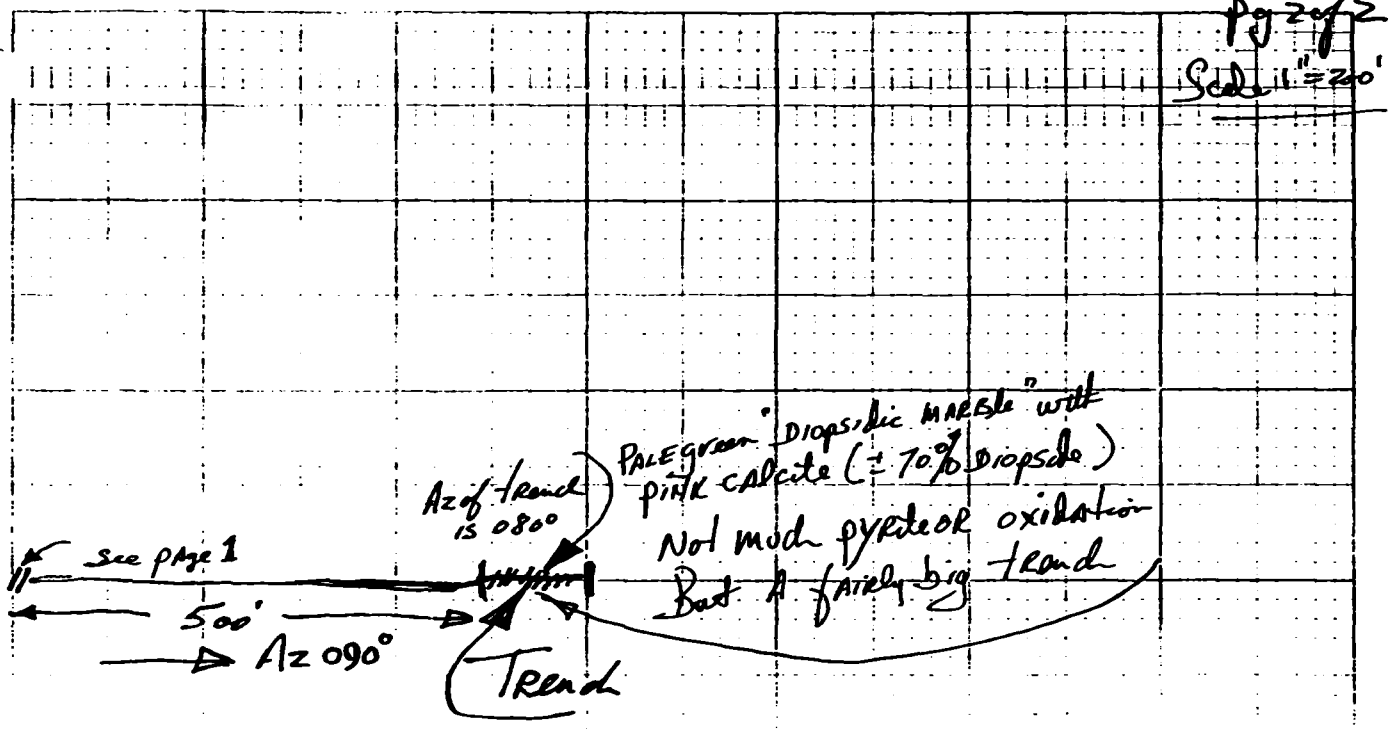
Scale 1" = 200'



June 3/92
Project (6) Monmouth —NE Sect.
Pg 1 of 2



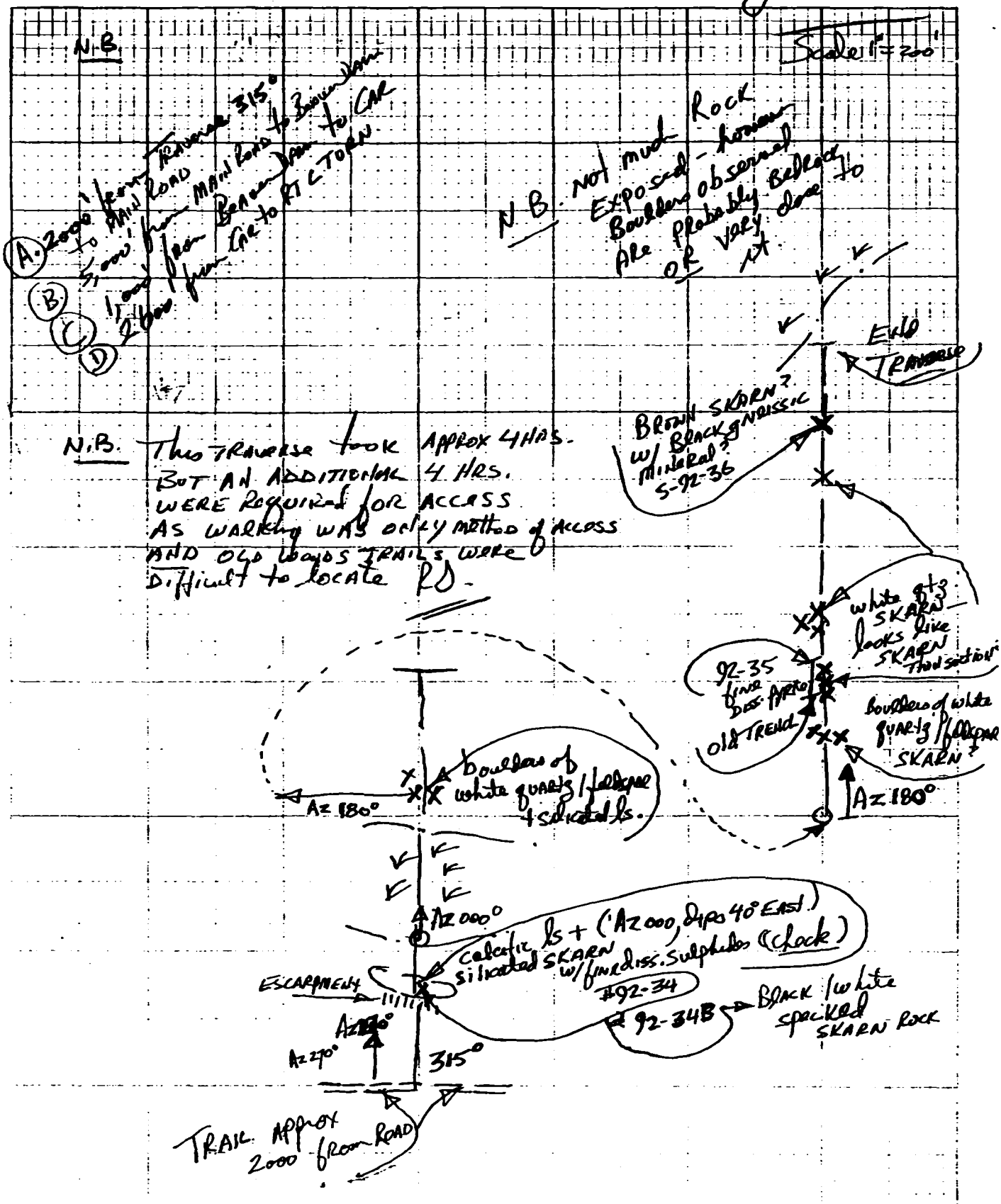
June 3/92
Prospect ⑥ Monmouth — NE Sector
Pg 2 of 2



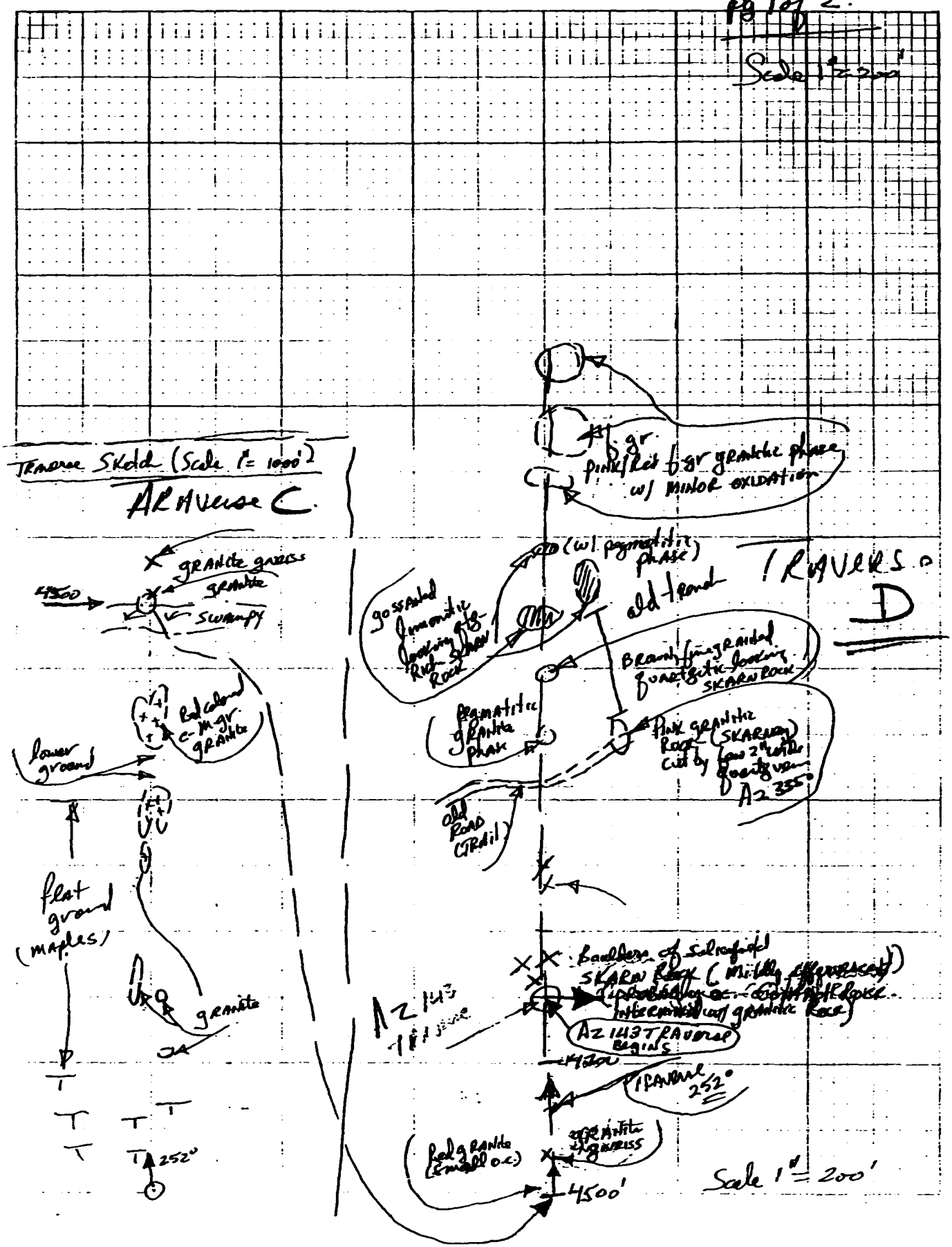
Scale 1" = 200'

Monmouth Twp
(S.W. Tip of Twp)

June 17/92



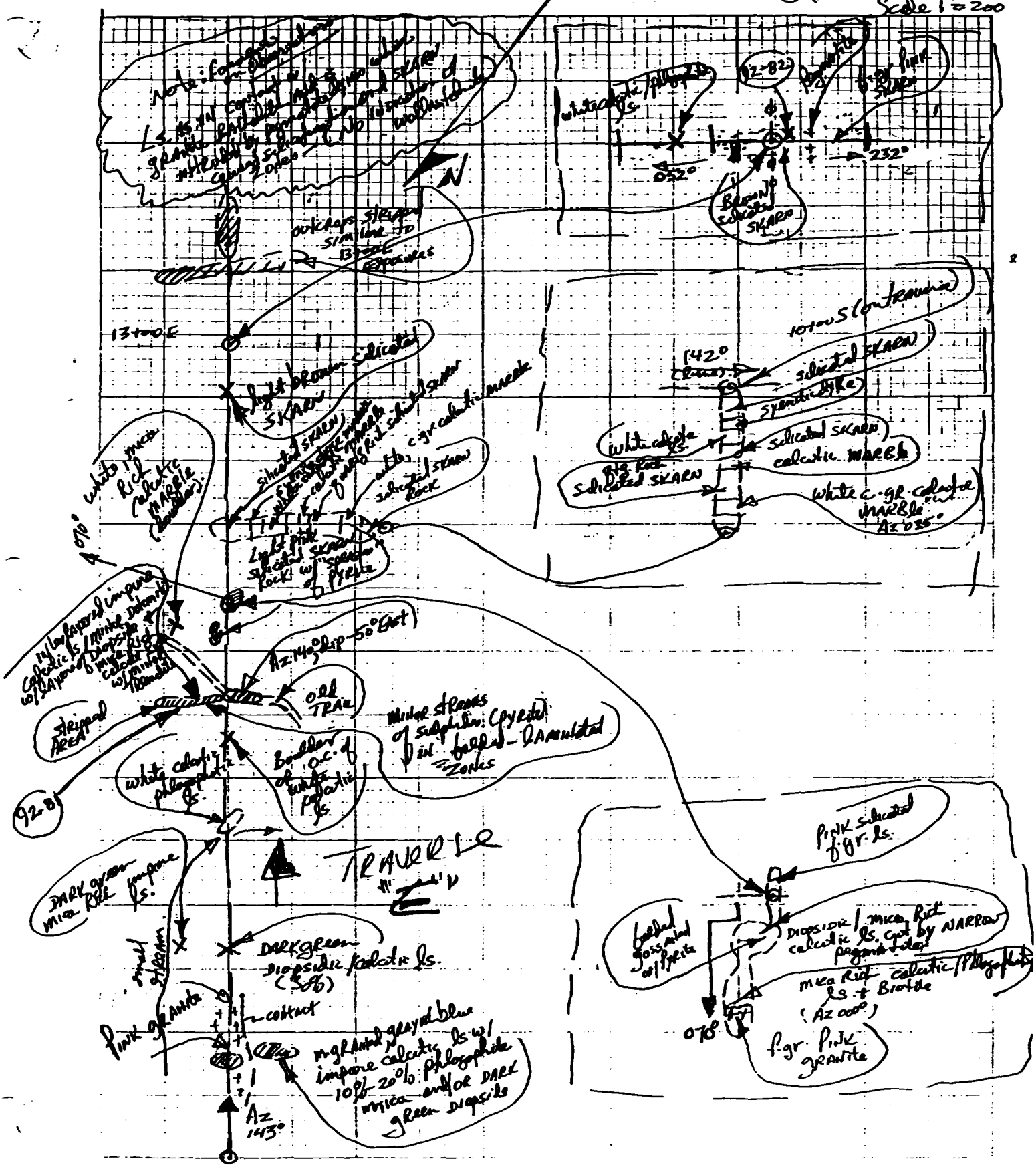
FARADAY TWP I NE
Aug. 7/92
Pg 1 of 2.



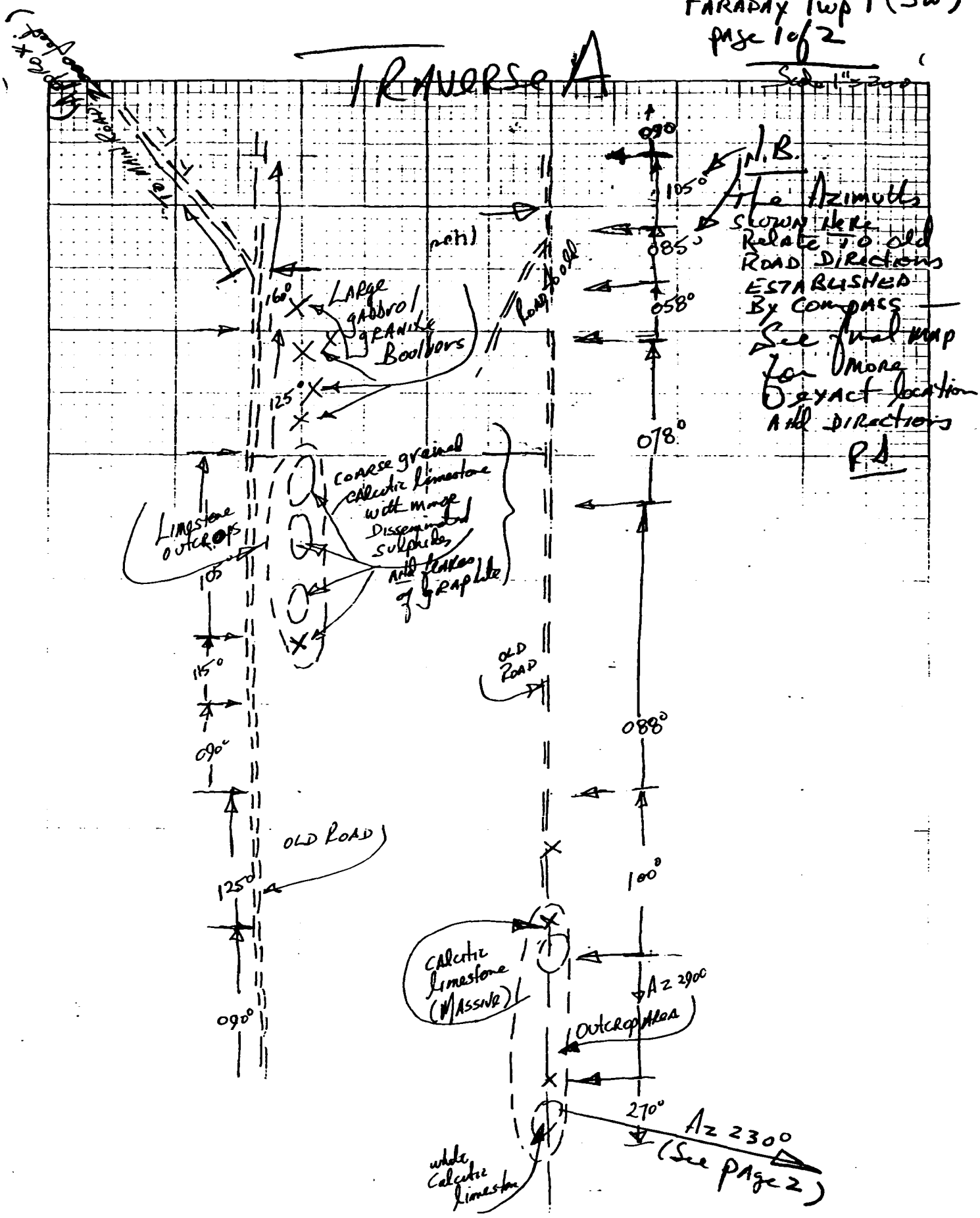
FARADAY Twp I NE

August 7/92 B282

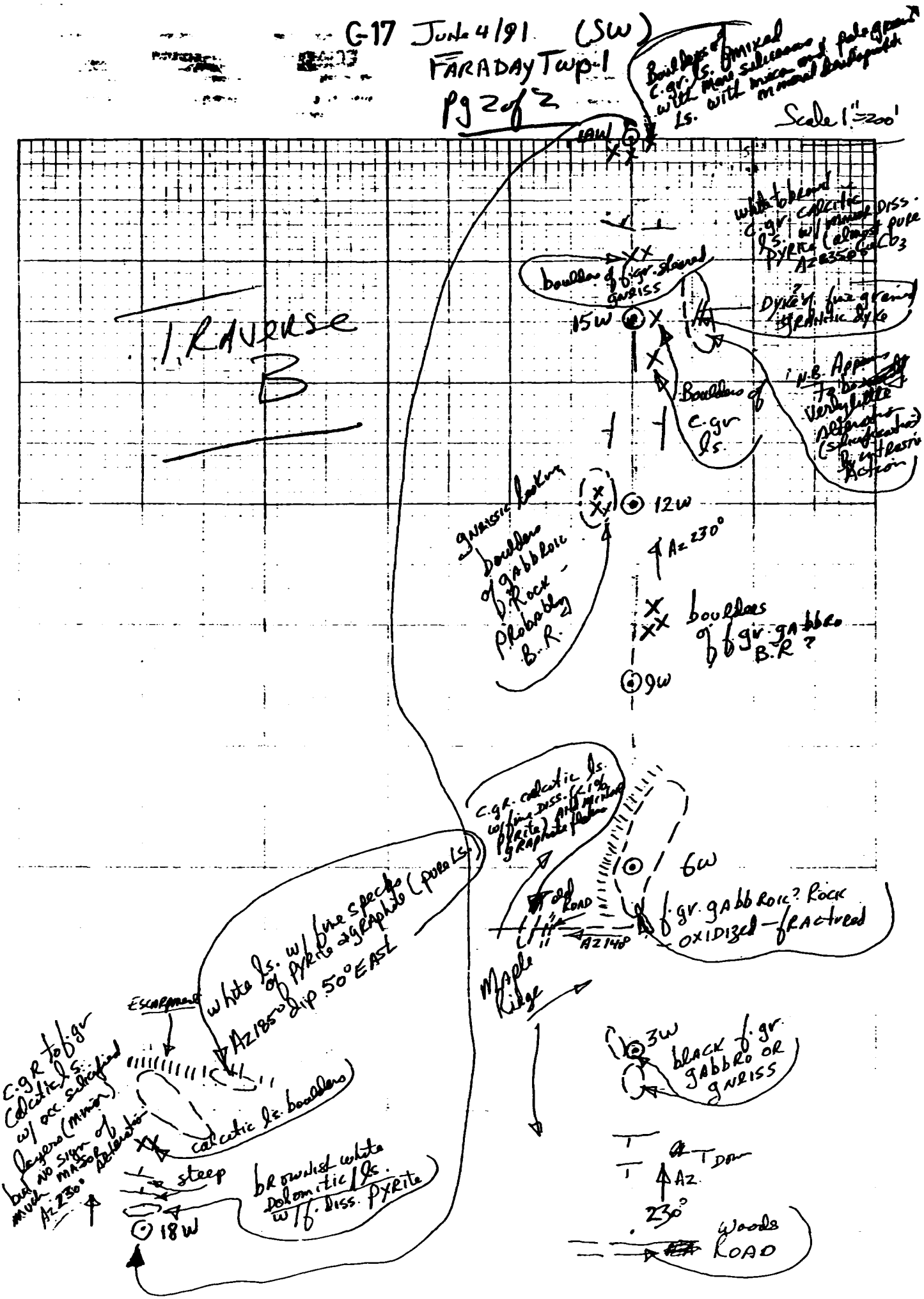
Scale 1" = 200'

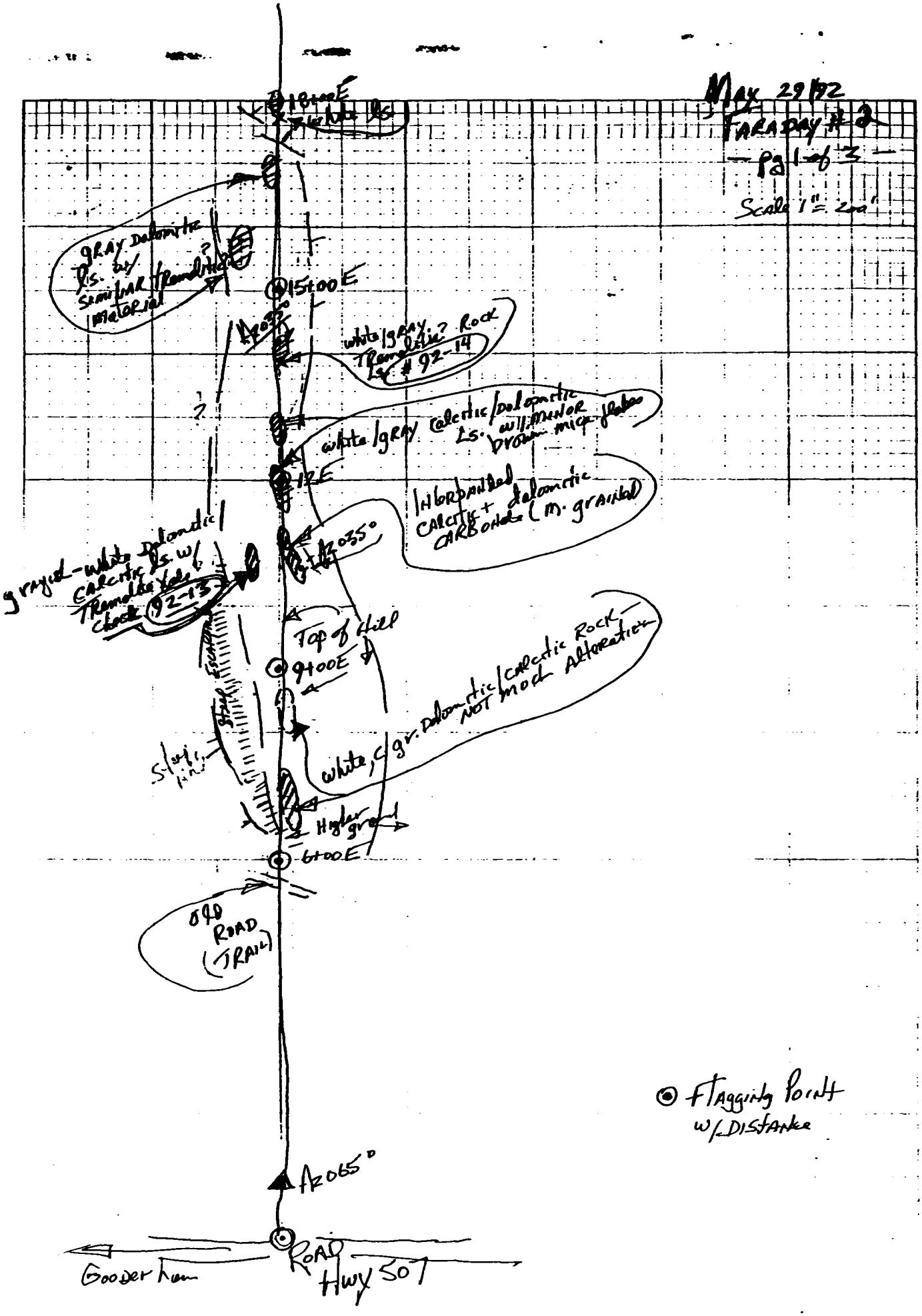


June 4/91
FARADAY Twp 1 (SW)
page 1 of 2

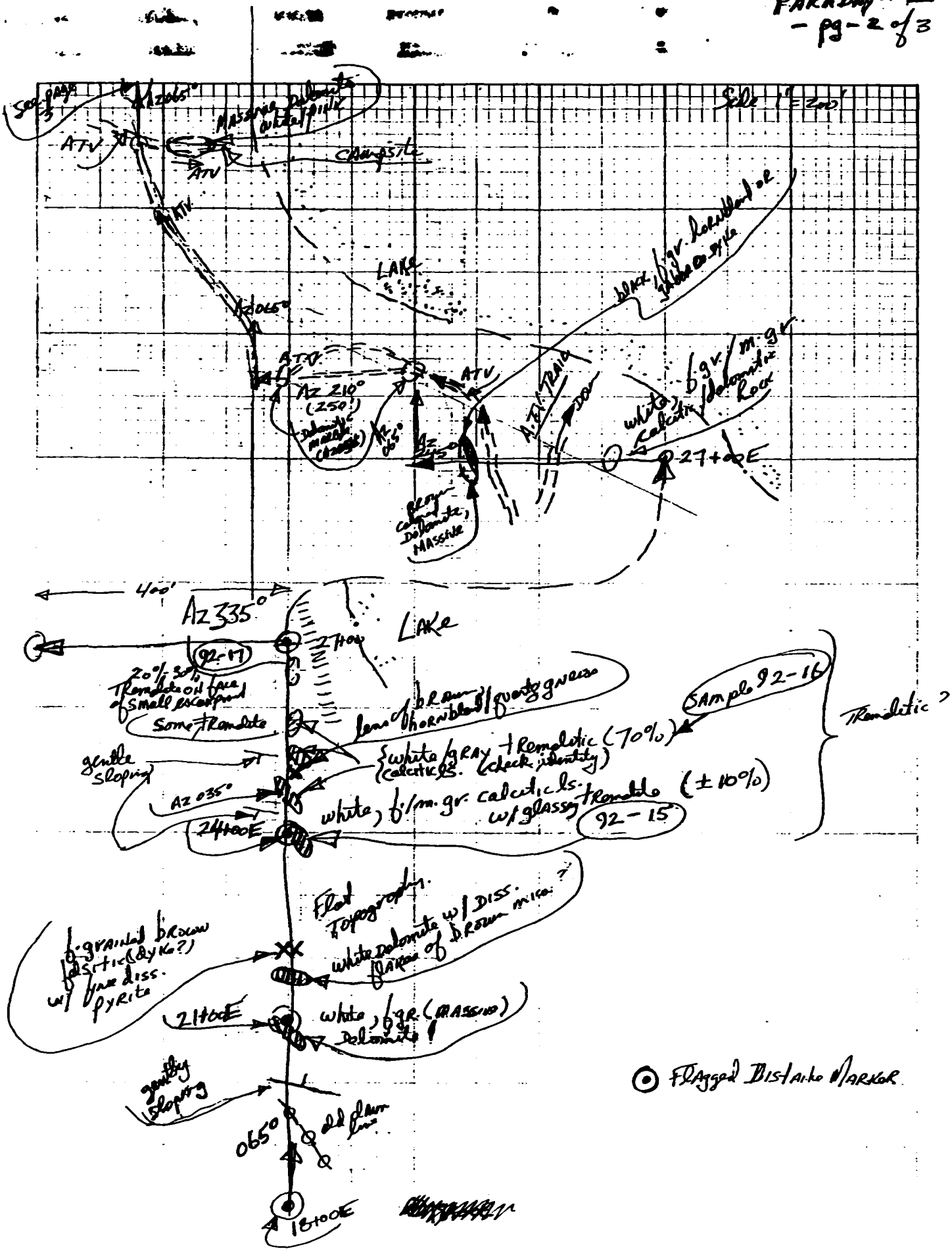


G-17 June 4/91 (SW)
FARADAY Twp-1
Pg 2 of 2

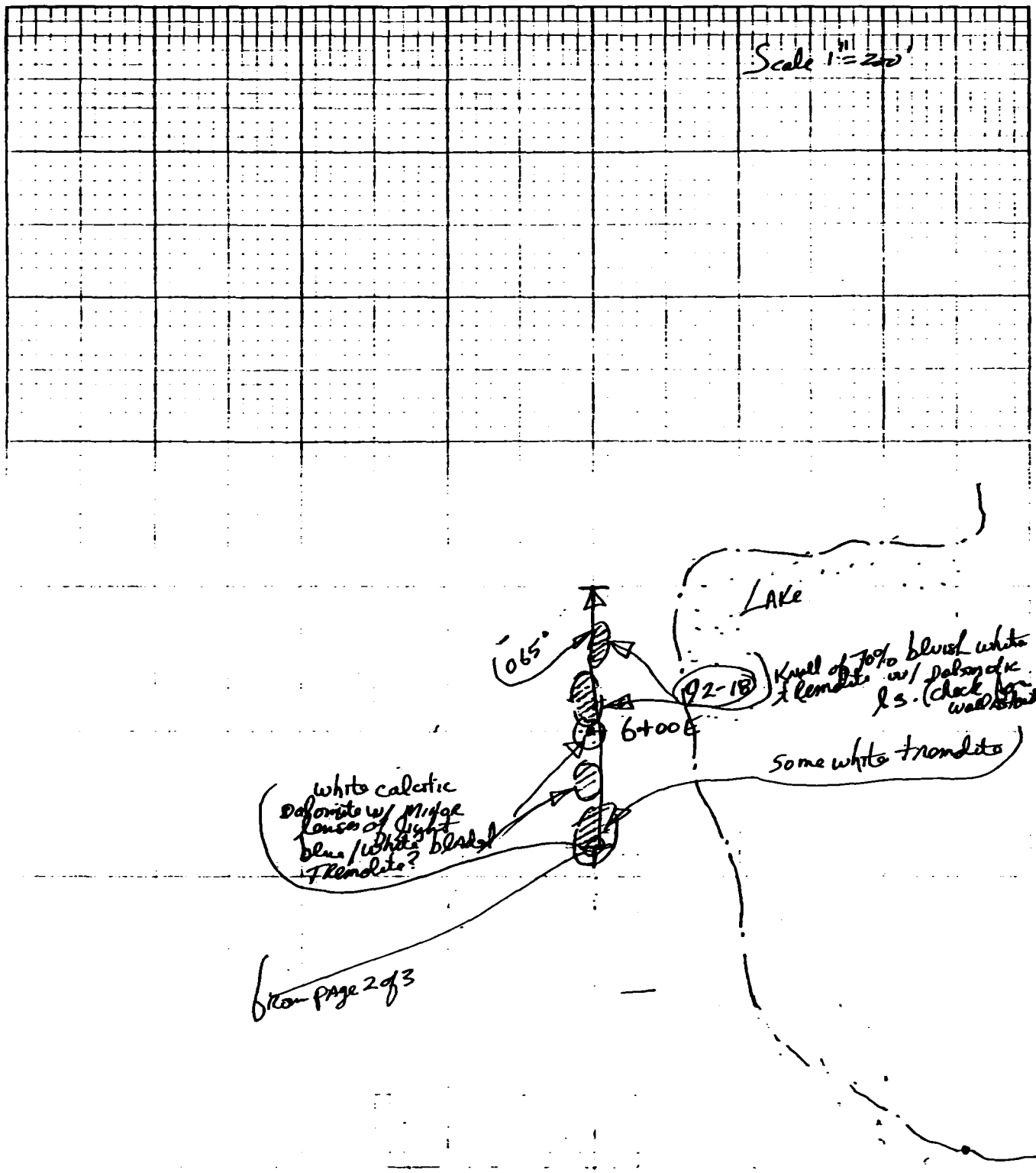



MAY 29 '92
FARADAY #2
— Pg 1 of 3 —
Scale 1" = 2m
18400E
GRAY Dolomitic Ls. w/ similar Tremolitic material
15400E
white/gray Tremolitic? Rock #92-14
white/gray calcitic/dolomitic Ls. w/ minor brown mica flakes
12E
INTERBANDED CALCITIC + dolomitic CARBONATE (M. grained)
gray-white Dolomitic/ Calcitic Ls. w/ Tremolite Check 92-13
Az035°
Top of Hill
9400E
white, f gr. Dolomitic/calcitic Rock NOT much Alteration
Higher grd
6400E
OLD ROAD (TRAIL)
Az065°
ROAD
Hwy 507
Gooderham
⊙ Flagging Point w/ Distance

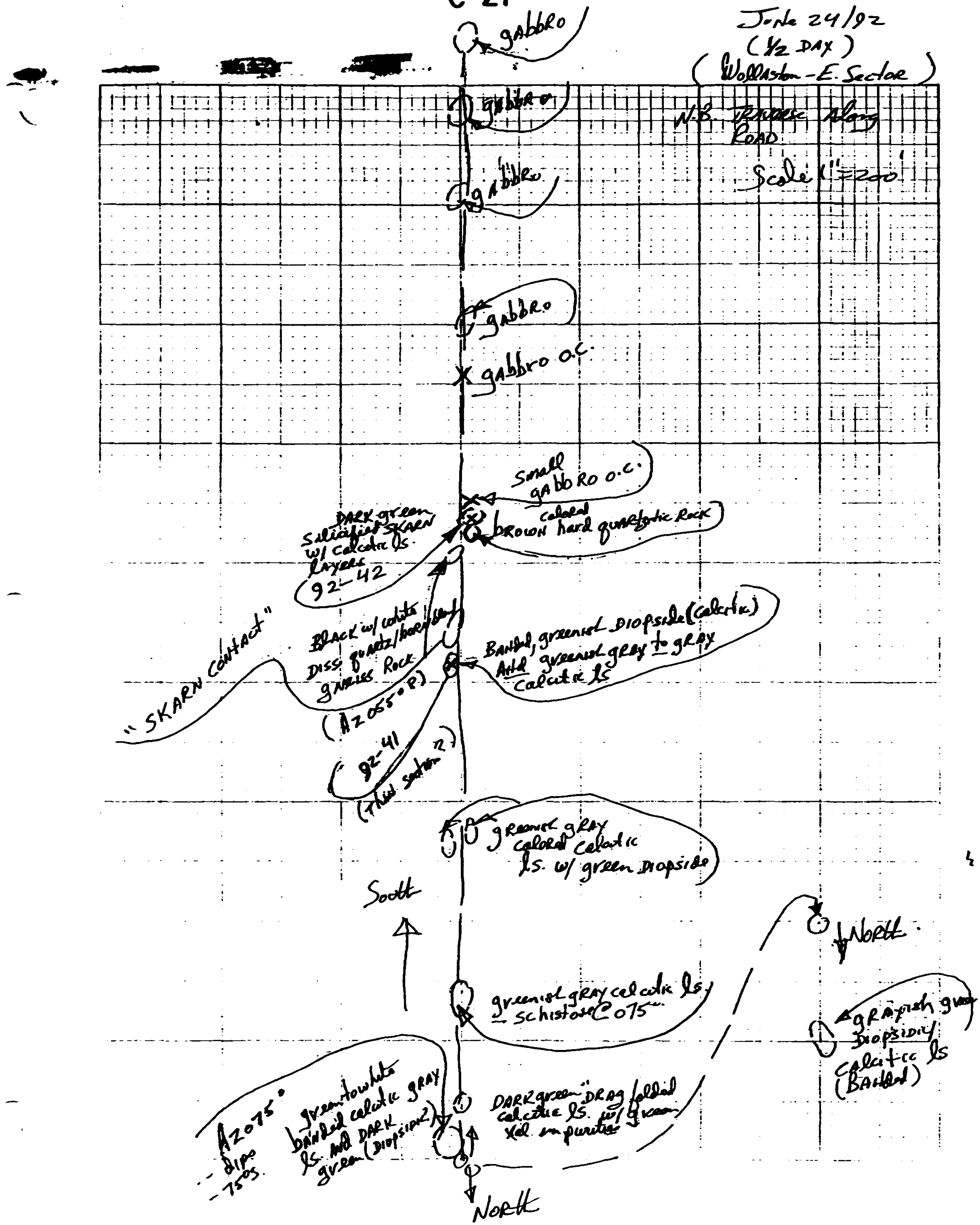
MAY 29 192
FARADAY #2
- pg - 2 of 3



May 29/92
FARADAY #2
-Pg 3 of 3-



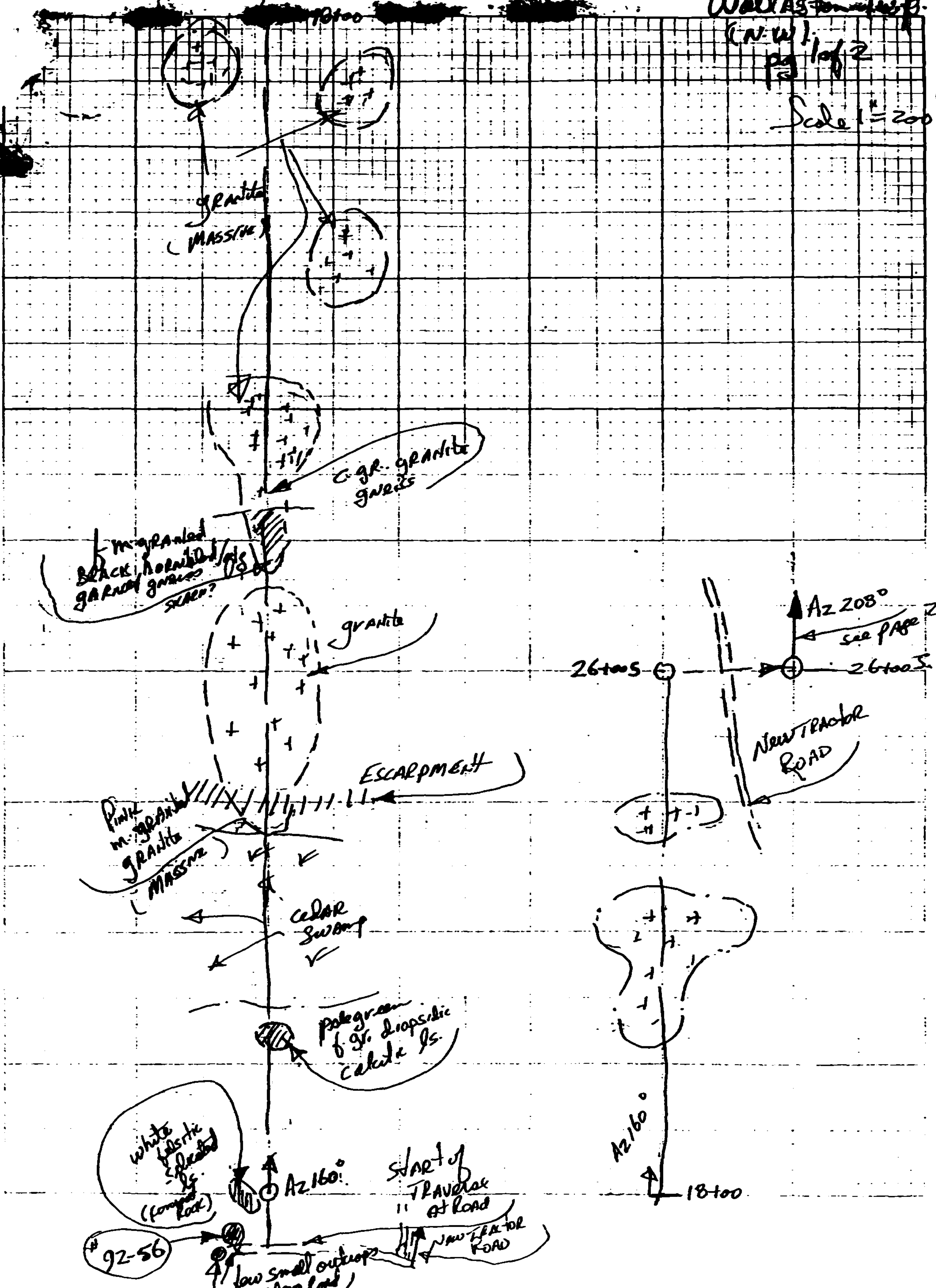
C-21



June 24/92
(1/2 DAY)
(Wollaston - E. Sector)
N.B. Traverse Along ROAD
Scale 1" = 200'
gabbro
gabbro
gabbro
gabbro
gabbro o.c.
small gabbro o.c.
DARK green silicified SKARN w/ calcitic ls. layers
92-42
colored BROWN hard quartzitic Rock
BLACK w/ white DISS quartz/biotite gneiss ROCK
(Az 055° P)
"SKARN CONTACT"
Banded, greenish DIOPSIDE (calcitic) AND greenish gray to gRAY calcitic ls
"92-41 (Thin section)"
greenish gray colored calcitic ls. w/ green DIOPSIDE
South
North
greenish gray calcitic ls. - schistose @ 075°
grayish green DIOPSIDIC calcitic ls (BANDED)
Az 075° - dips - 75°S.
green to white banded calcitic gRAY ls. AND DARK green (DIOPSIDE)
DARK green DRAG folded calcitic ls. w/ green Xtal impurities
NORTH

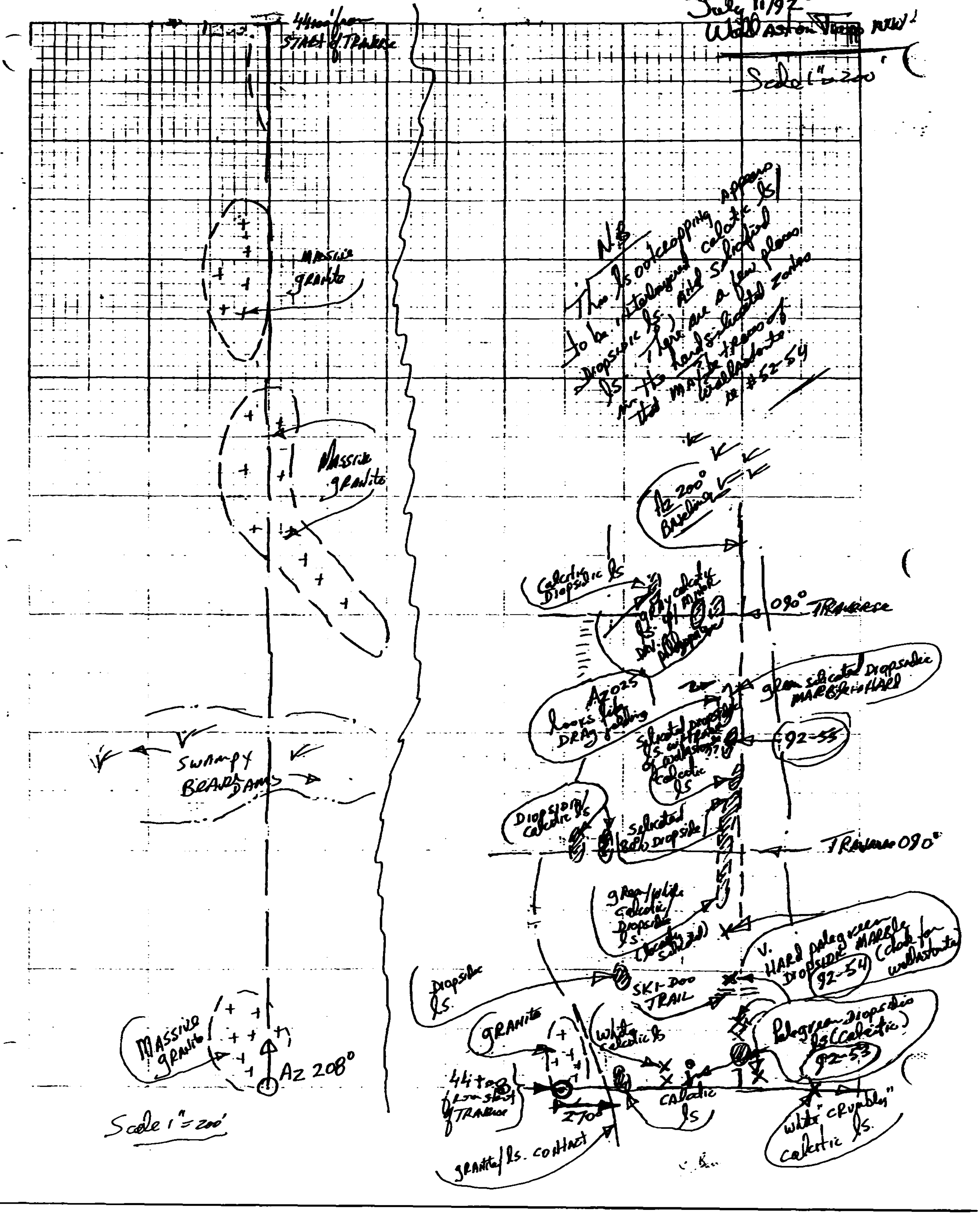
C-22

July 11/92
Wallaston Twp (N-W)
pg 1 of 2
Scale 1" = 200'



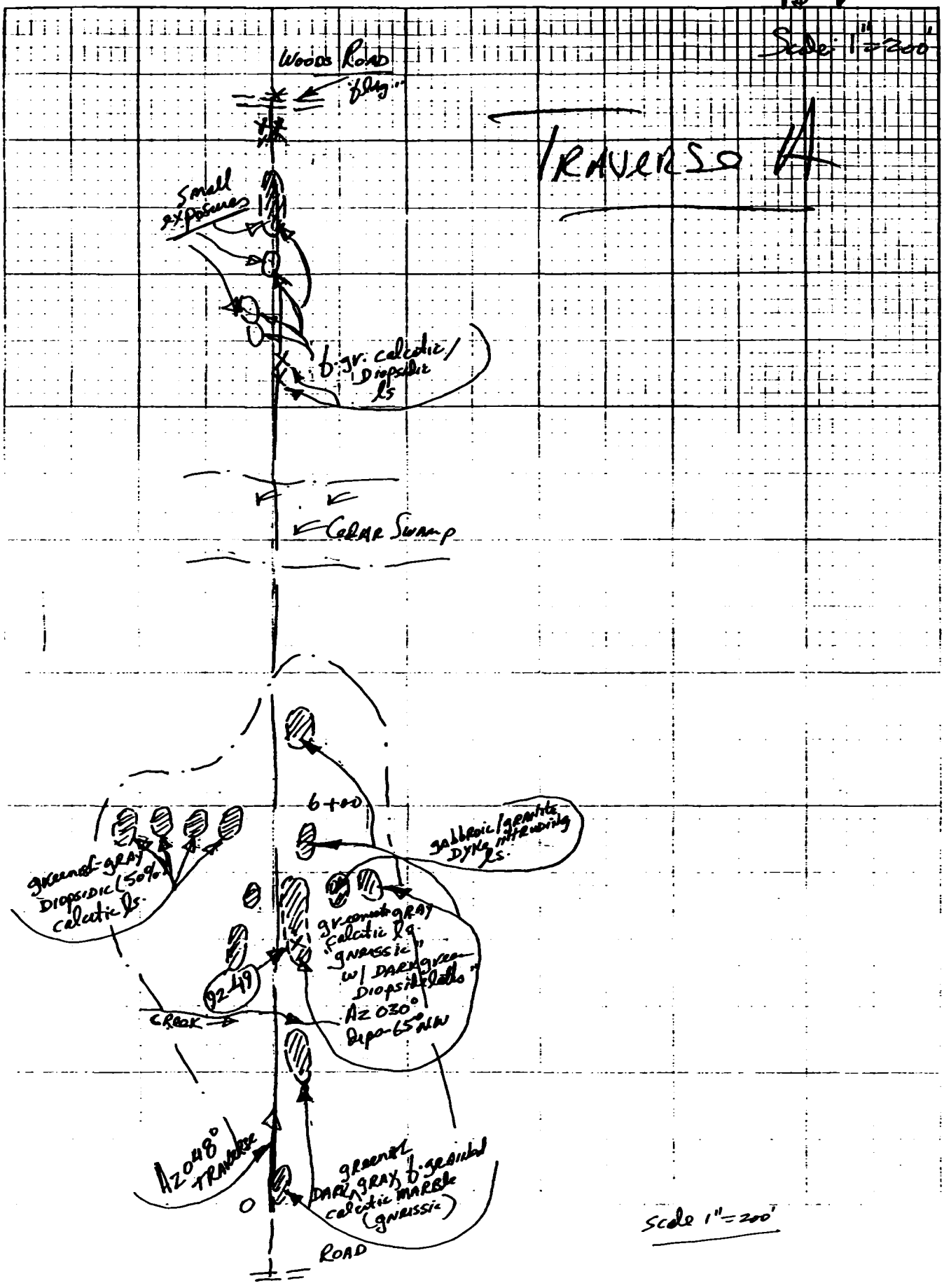
C-23

Pg 2 of 2

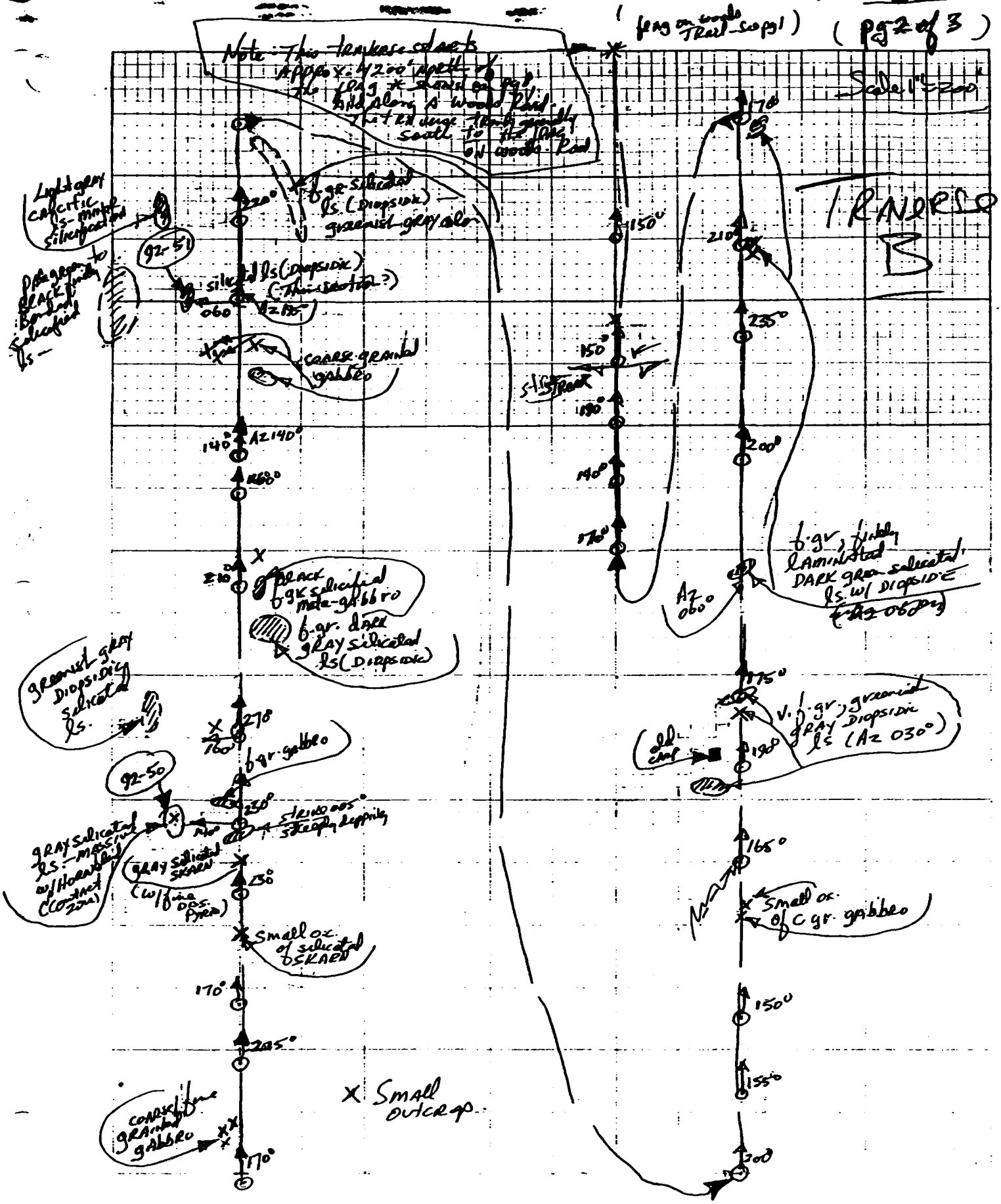


July 11/92
Wollaston Twp NW?
Scale 1" = 200'
44m from START of TRAVERSE
MASSIVE granite
Massive granite
SWAMPY BEAVER DAMS
MASSIVE granite
Az 208°
Scale 1" = 200'
NB The ls outcropping appears to be interlayered calcitic ls and silicified Diopsidic ls. There are a few places in the hard silicated zones of ls that may be traces of wollastonite ie #52-54
Az 200° Baseline
Calcitic Diopsidic ls
090° TRAVERSE
Az 025 looks like DRAG folding
green silicated Diopsidic MARBLE HARD
92-55
silicated diopsidic ls with traces of wollastonite?
calcitic ls
Diopsidic calcitic ls
silicated diopsidic
TRAVERSE 090°
grey/white calcitic Diopsidic ls (locally silicified)
V. HARD pale green DIOPSIDIC MARBLE (check for wollastonite)
92-54
Diopsidic ls.
SKI-DOO TRAIL
GRANITE
white calcitic ls
pale green diopsidic ls (calcitic)
92-53
44 from start of TRAVERSE
270°
calcitic ls
white "crumbly" calcitic ls.
granite/ls. contact

July 10/92
Limerick SW.
Pg 1 of 3

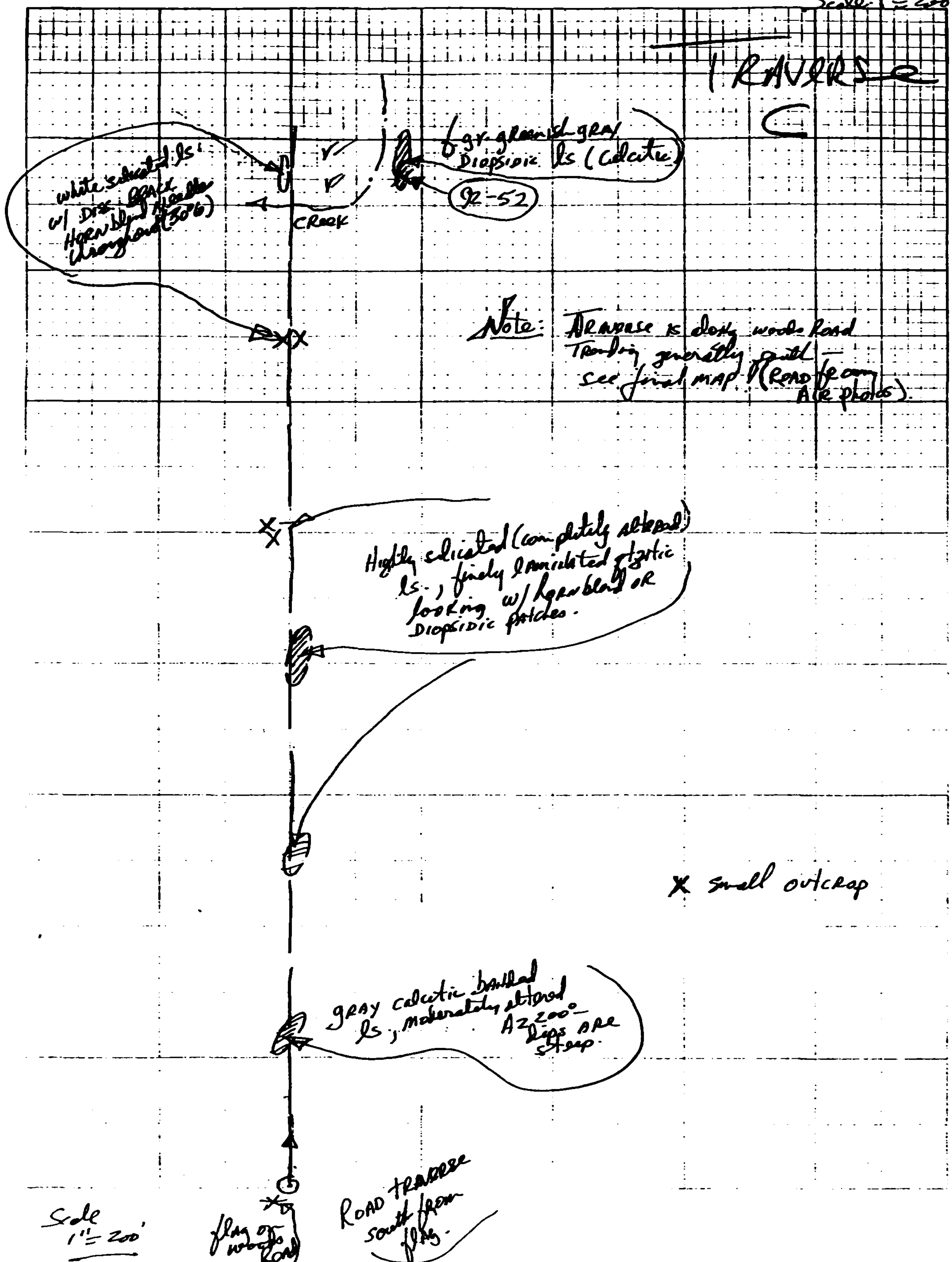


July 10/92
Limerick SW
(pg 2 of 3)

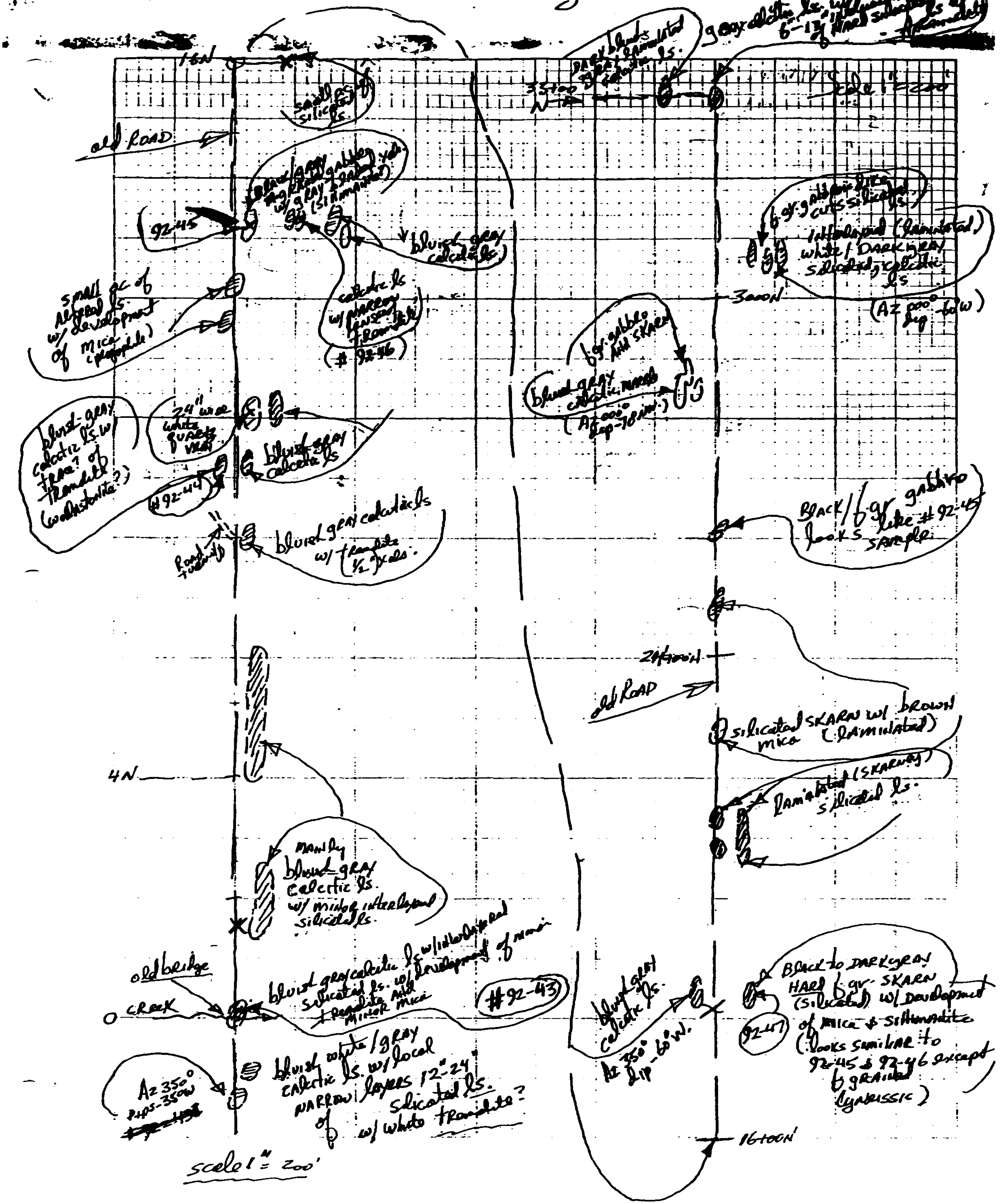


July 10/92
Limerick SW
pg 3 of 3

Scale: 1" = 200'



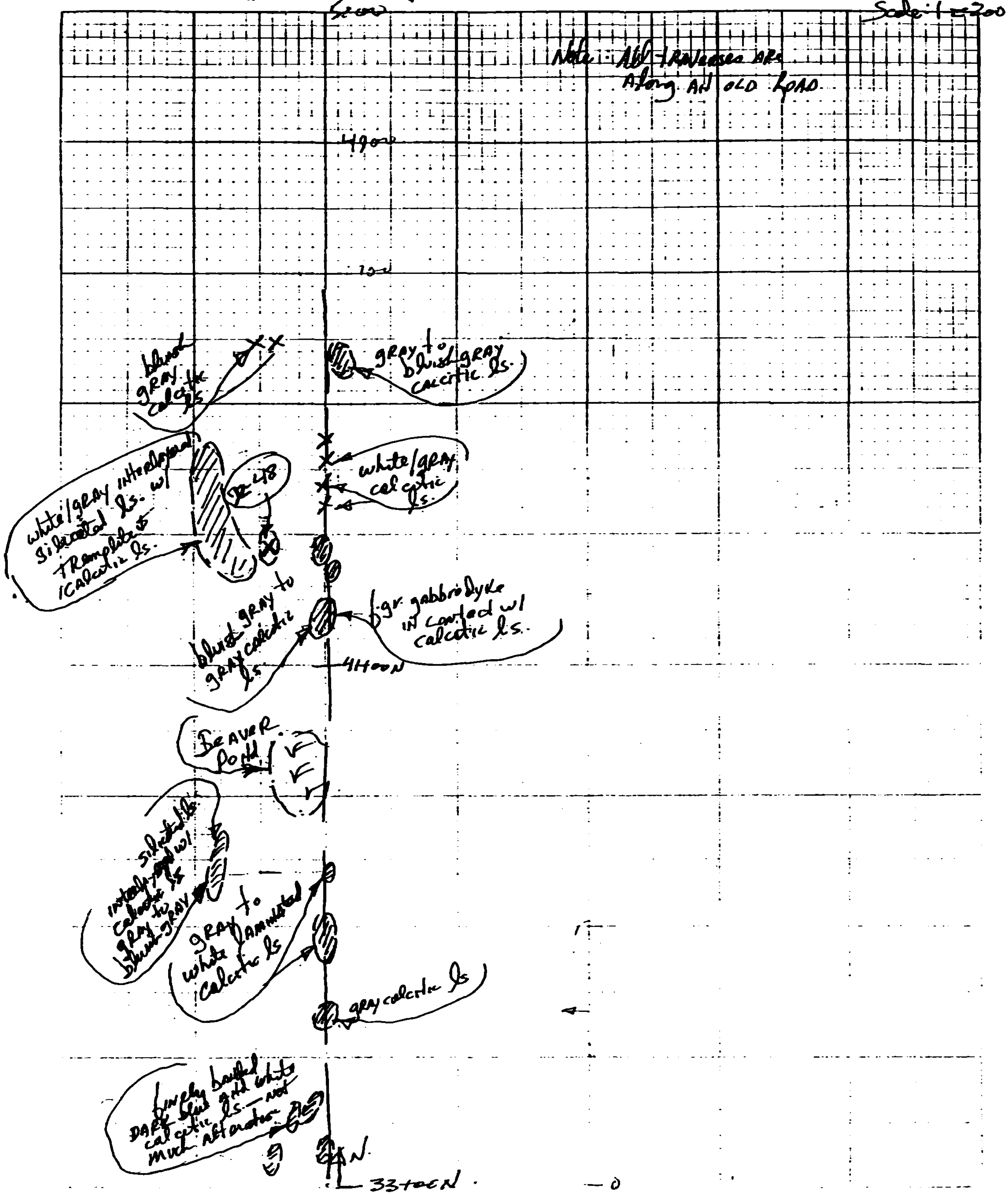
Note: All traverses are along an old road



July 9/92
Limerick Nat

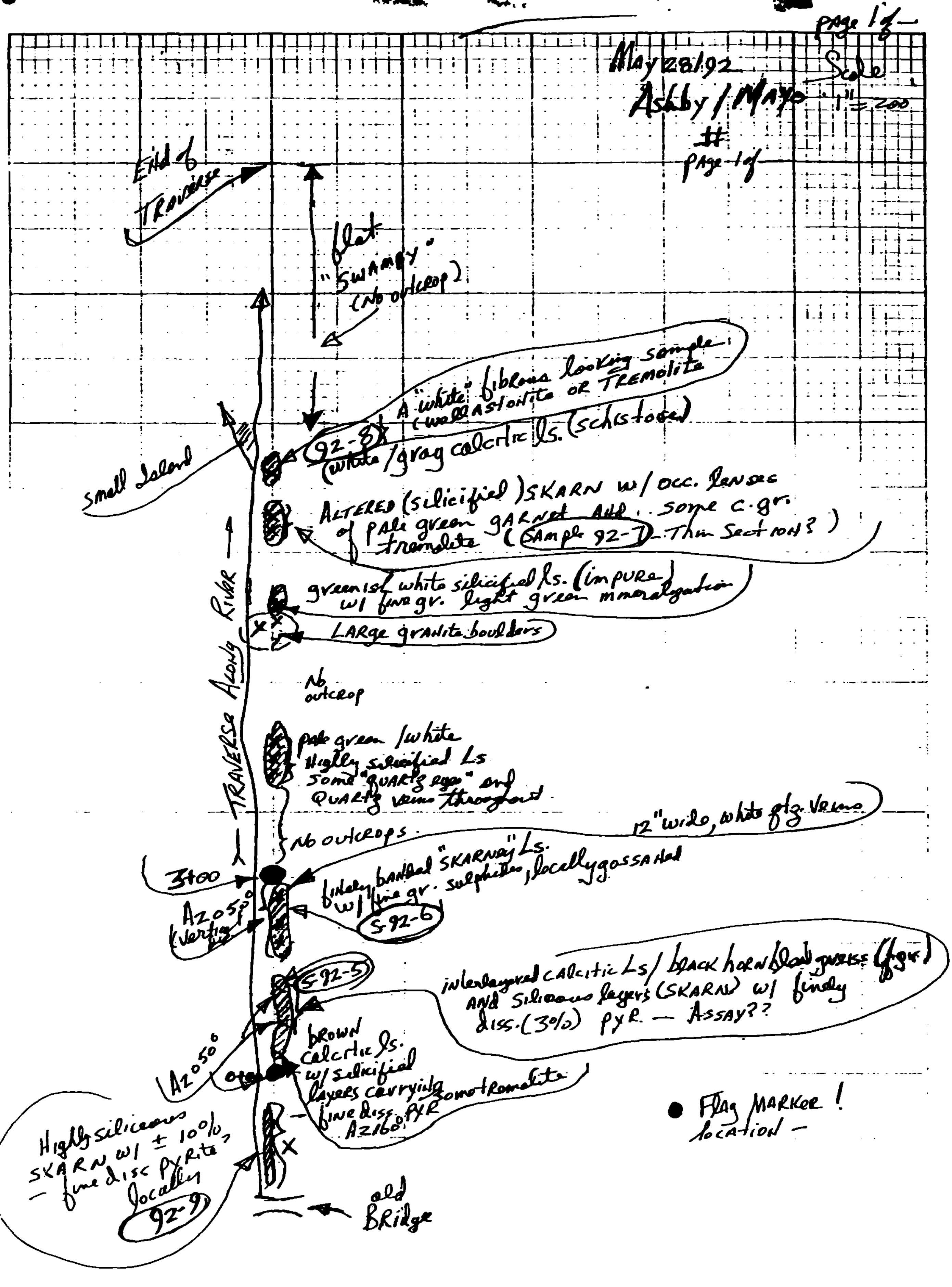
Scale: 1" = 200'

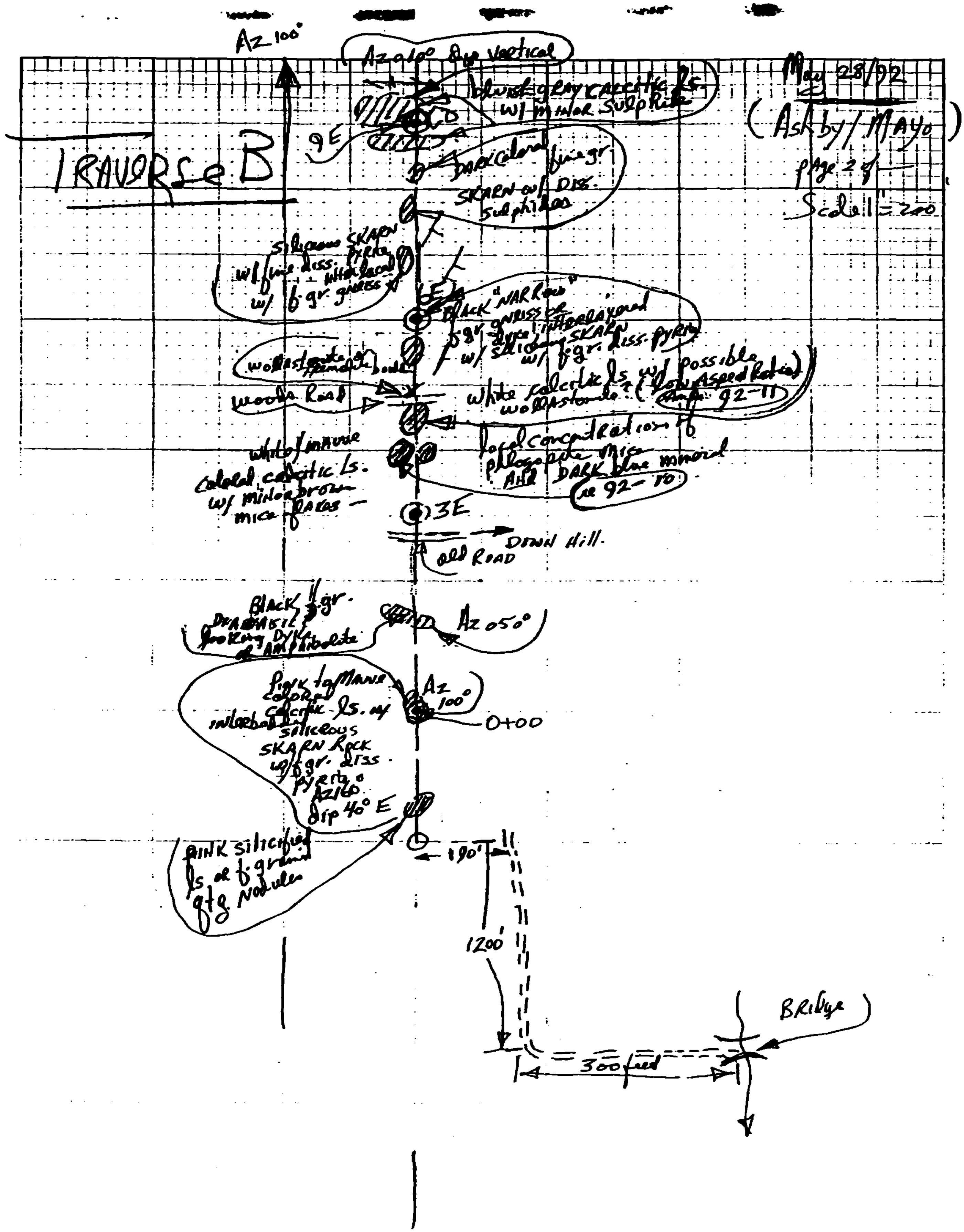
[redacted]



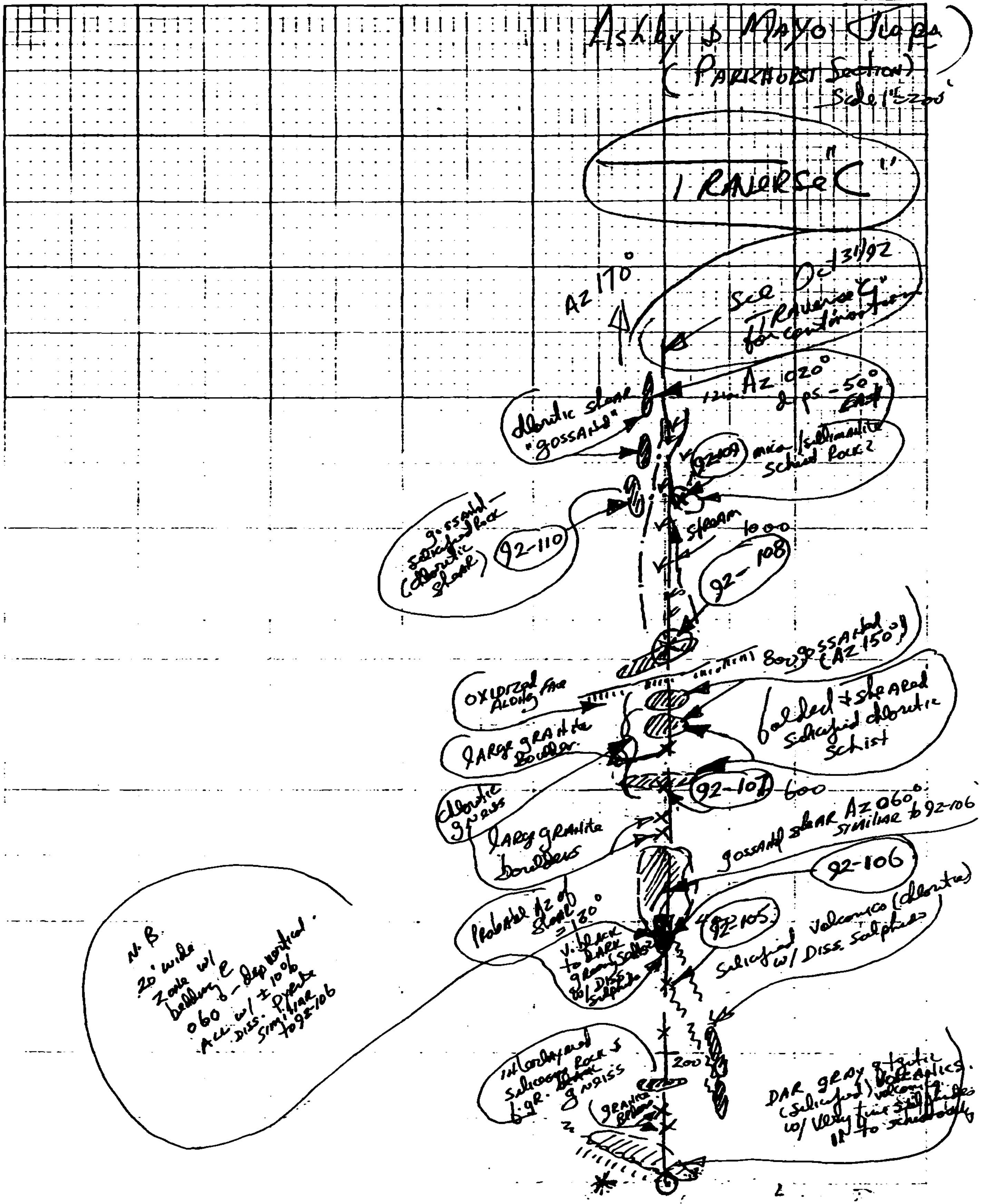
scale 1" = 200'

TRAVERSE A


page 1 of
May 28/92
Ashby / Mayo
Scale 1" = 200
#
page 1 of
End of TRAVERSE
flat "SWAMPY" (No outcrop)
A "white" fibrous looking sample (wollastonite OR TREMOLITE
92-8
(white/gray calcitic ls. (schistose)
small Island
ALTERED (silicified) SKARN w/ occ. lenses of pale green GARNET AND some c.gr. tremolite (SAMPLE 92-7 Thin Section?)
greenish white silicified ls. (impure) w/ fine gr. light green mineralization
LARGE granite boulders
No outcrop
TRAVERSE ALONG RIVER
pale green/white Highly silicified Ls some "QUARTZ eyes" and QUARTZ veins throughout
No outcrops
12" wide, white qtz. veins
3+00
finely banded "SKARNY" Ls. w/ fine gr. sulphides, locally gossaned
S-92-6
Az 050° (vertical)
S-92-5
interlayered calcitic Ls / black hornblende gneiss (f.gr.) AND siliceous layers (SKARN) w/ finely diss. (3%) PYR. — Assay??
brown calcitic ls. w/ silicified layers carrying fine diss. PYR some tremolite
Az 050°
Az 160°
Highly siliceous SKARN w/ ± 10% fine disc PYRite locally
92-9
old BRIDGE
● Flag MARKER location —


Az 100°
Az 010° Dip vertical
May 28/92
(Ashby/Mayo)
page 2 of
Scale 1" = 200
TRAVERSE B
9E
bluish gray calcitic ls. w/ minor sulphide
Dark colored fine gr. SKARN w/ DIS. sulphides
Siliceous SKARN w/ fine diss. pyrite interlaced w/ f.gr. gneiss
6E
Black "NARROW" gneiss or f.gr. gneiss interlayered w/ siliceous SKARN w/ f.gr. diss. pyrite
wollastonite or tremolite bodie
woods Road
White calcitic ls. w/ possible wollastonite? (low Aspect Ratio) Sample 92-11
local concentrations of phlogopite mica and DARK blue mineral
92-10
white/mauve colored calcitic ls. w/ minor brown mica flakes
3E
DOWN Hill
old ROAD
BLACK f.gr. DIABASIC looking DYKE or AMphibolite
Az 050°
Pink to Mauve colored calcitic ls. w/ interbedded siliceous SKARN Rock w/ f.gr. diss. pyrite
Az 100°
0+00
Az 160 dip 40° E
PINK silicified ls. or f. grained qtz. Nodules
190'
1200'
300 feet
BRidge

October 2/92

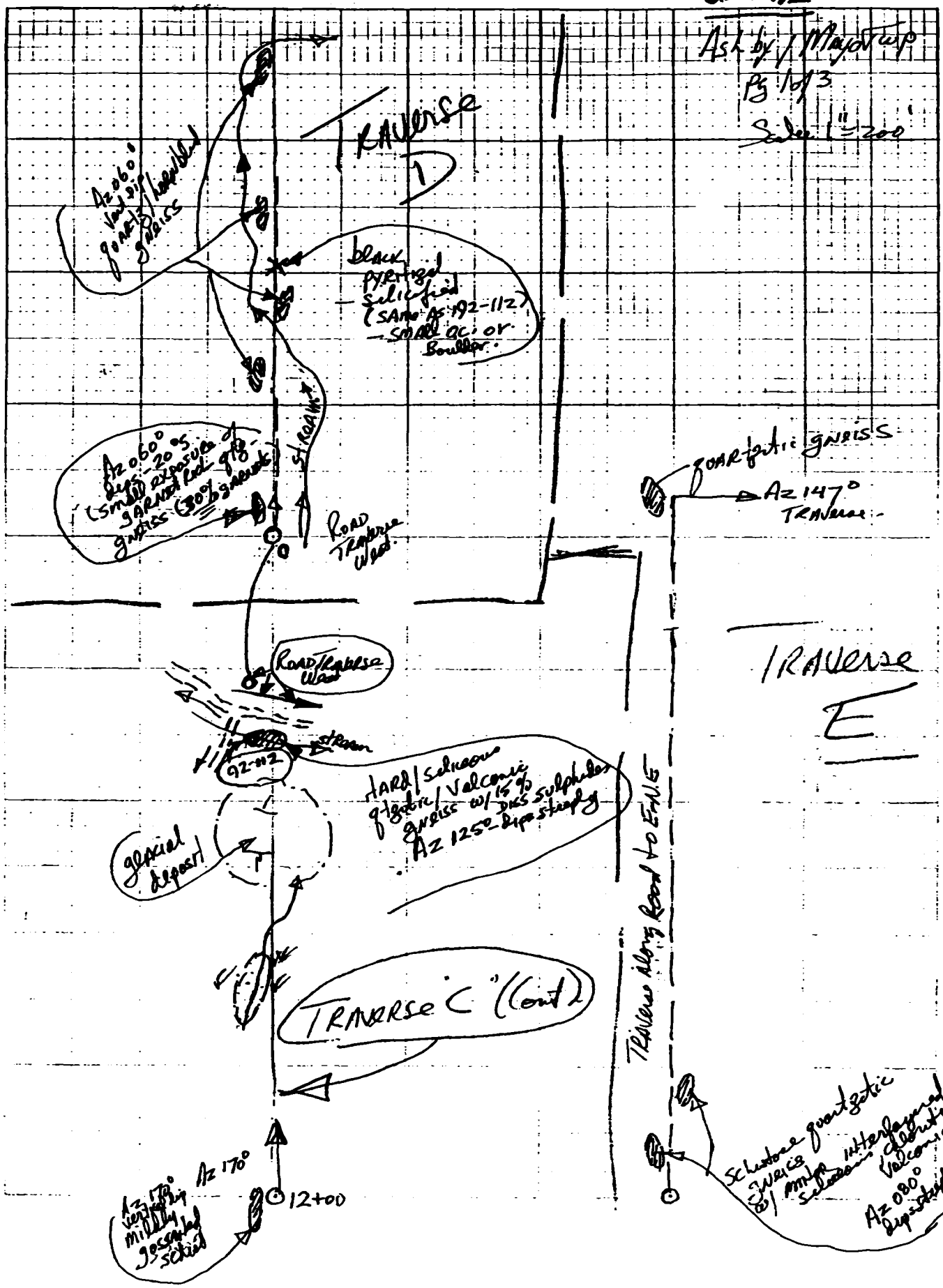

Ashby & Mayo Traps
(Parkhurst Section)
Traverse "C"
Az 170°
Az 020° dips -50° East
gossan
92-110
92-108
1000
gossan (Az 150°)
oxidized face along
folded & sheared silicified chloritic schist
large granite boulder
92-107
600
chloritic gneiss
large granite boulders
gossanous shear Az 060° similar to 92-106
92-106
Probable Az of shear = 130°
92-105
silicified volcanics (chlorite) w/ Diss. sulphides
N.B.
200
granite boulder

PARKHURST
LAKE C-32

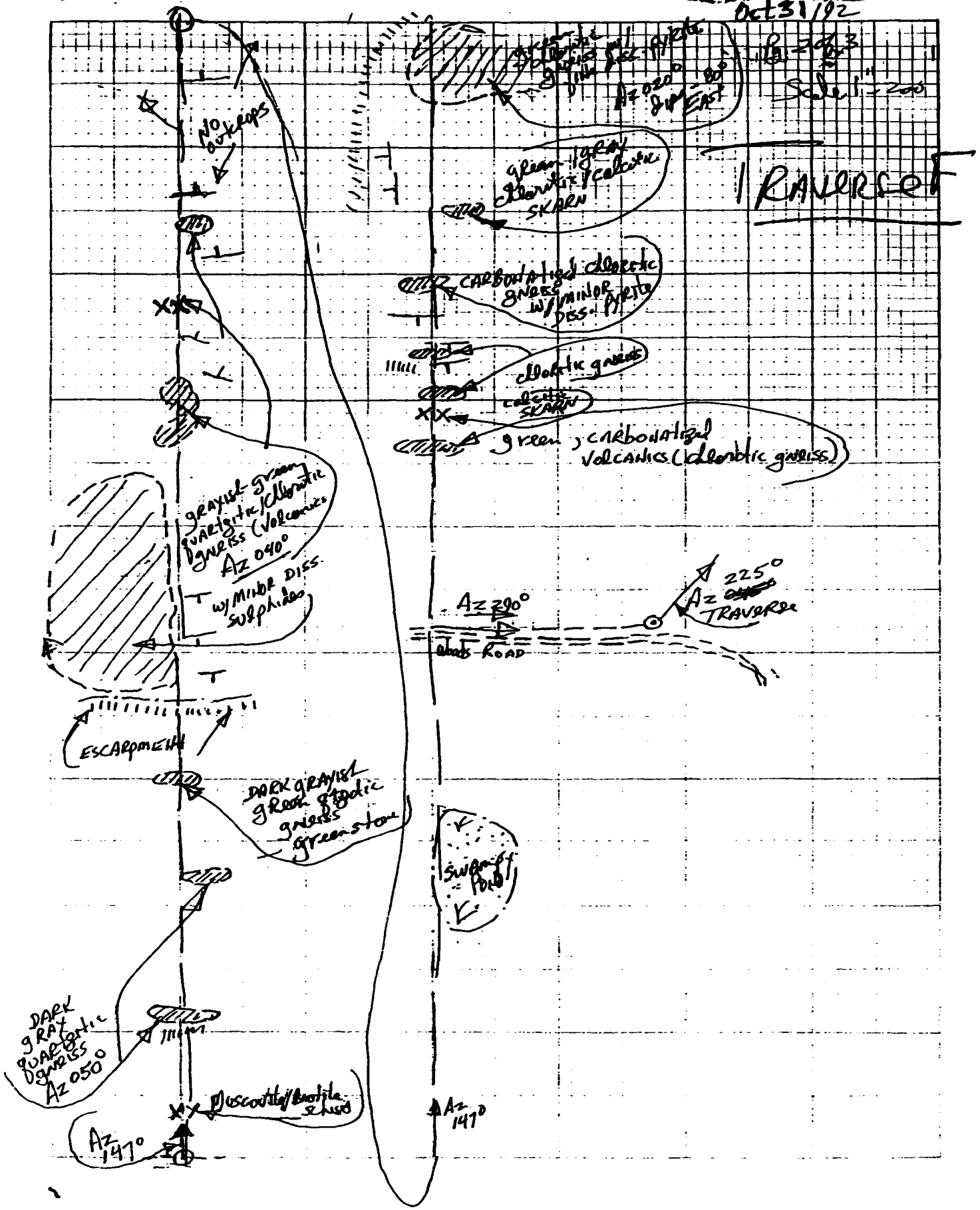
Continue w/ Az 170 - Traverse
SW of Road to Az + 4000'

Oct 31/92

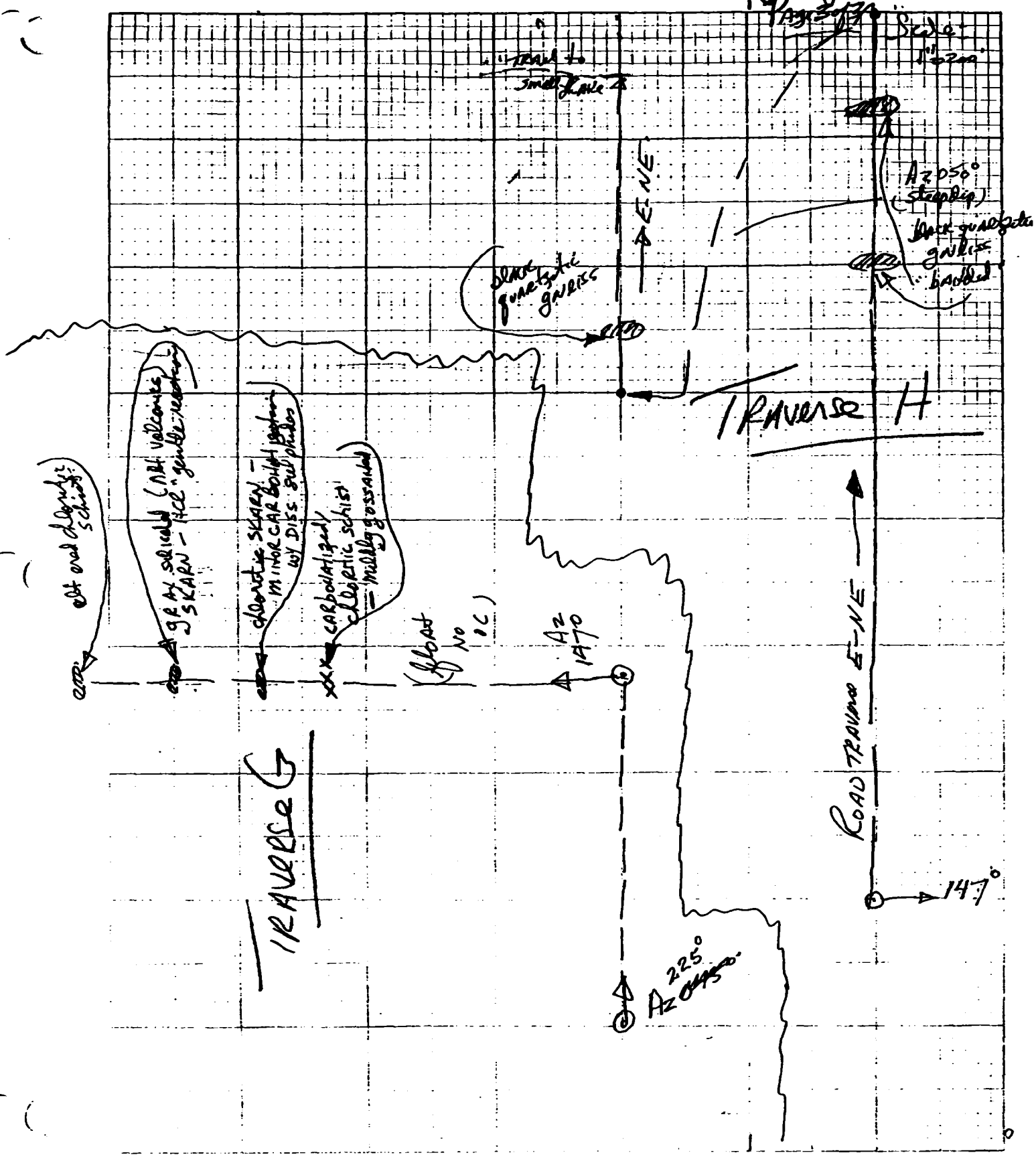
Ash by / Mayo twp
Pg 1 of 3
Scale 1" = 200'



Oct 31/92

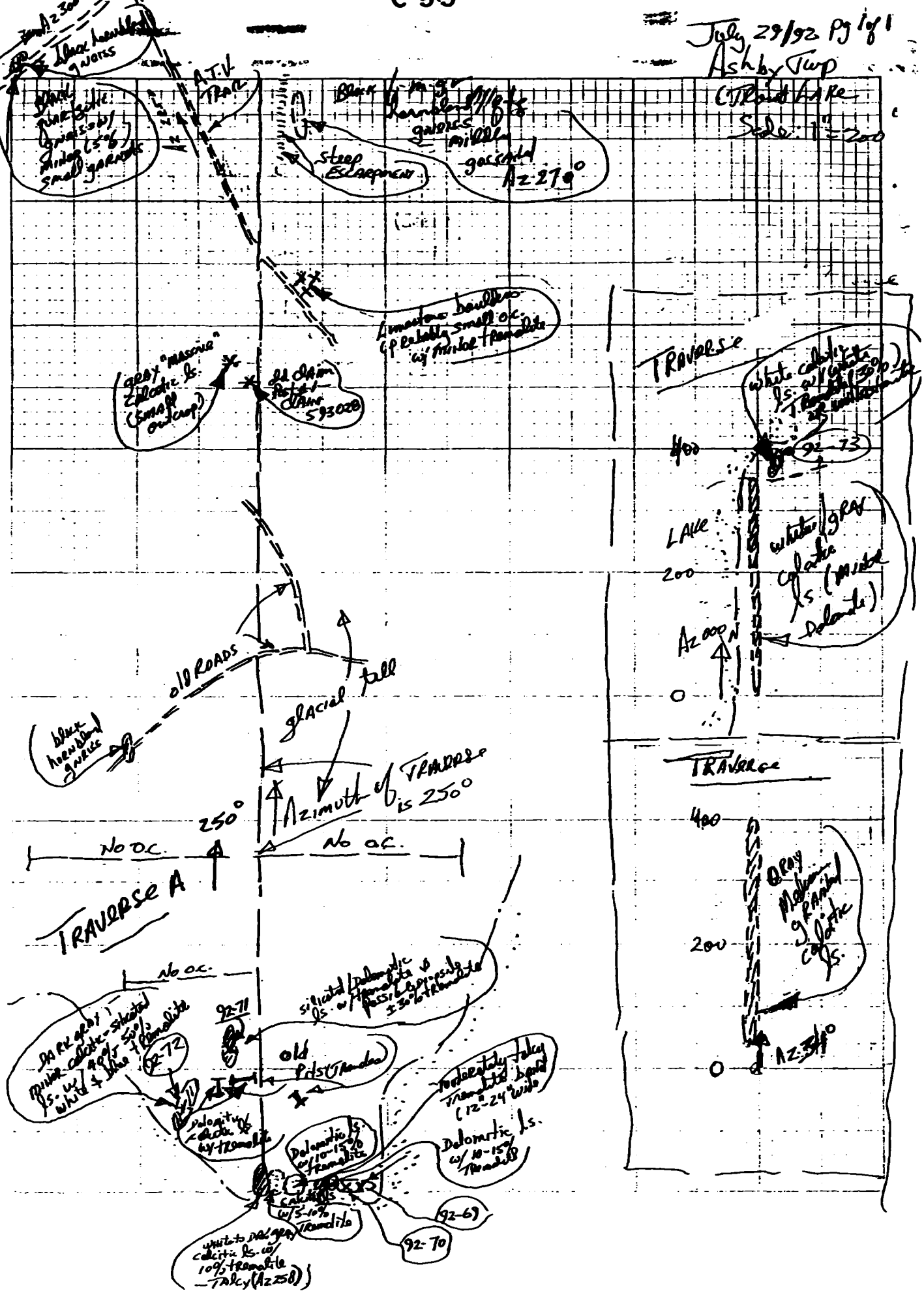

NO OUTCROPS
green-light gray chloritic/calcitic SKARN
RAVELSET
CARBONATIZED chloritic GNEISS W/ MINOR DISS. PYRITE
chloritic gneiss
calcitic SKARN
green, carbonatized volcanics (chloritic gneiss)
gray/dk green QUARTZOFELDSPATHIC GNEISS (Volcanics) Az 040° w/ MINOR DISS. SULPHIDES
Az 290°
Az 225° TRAVERSE
ROAD
ESCARPMENT
DARK GRAY/DK GREEN CHLORITIC GNEISS GREENSTONE
SWAMP
DARK GRAY QUARTZOFELDSPATHIC GNEISS Az 050°
Muscovite/biotite schist
Az 147°
Az 147°

Oct 31 1992 pg 3 of 3



July 29/92 Pg 1 of 1

Ashby Twp

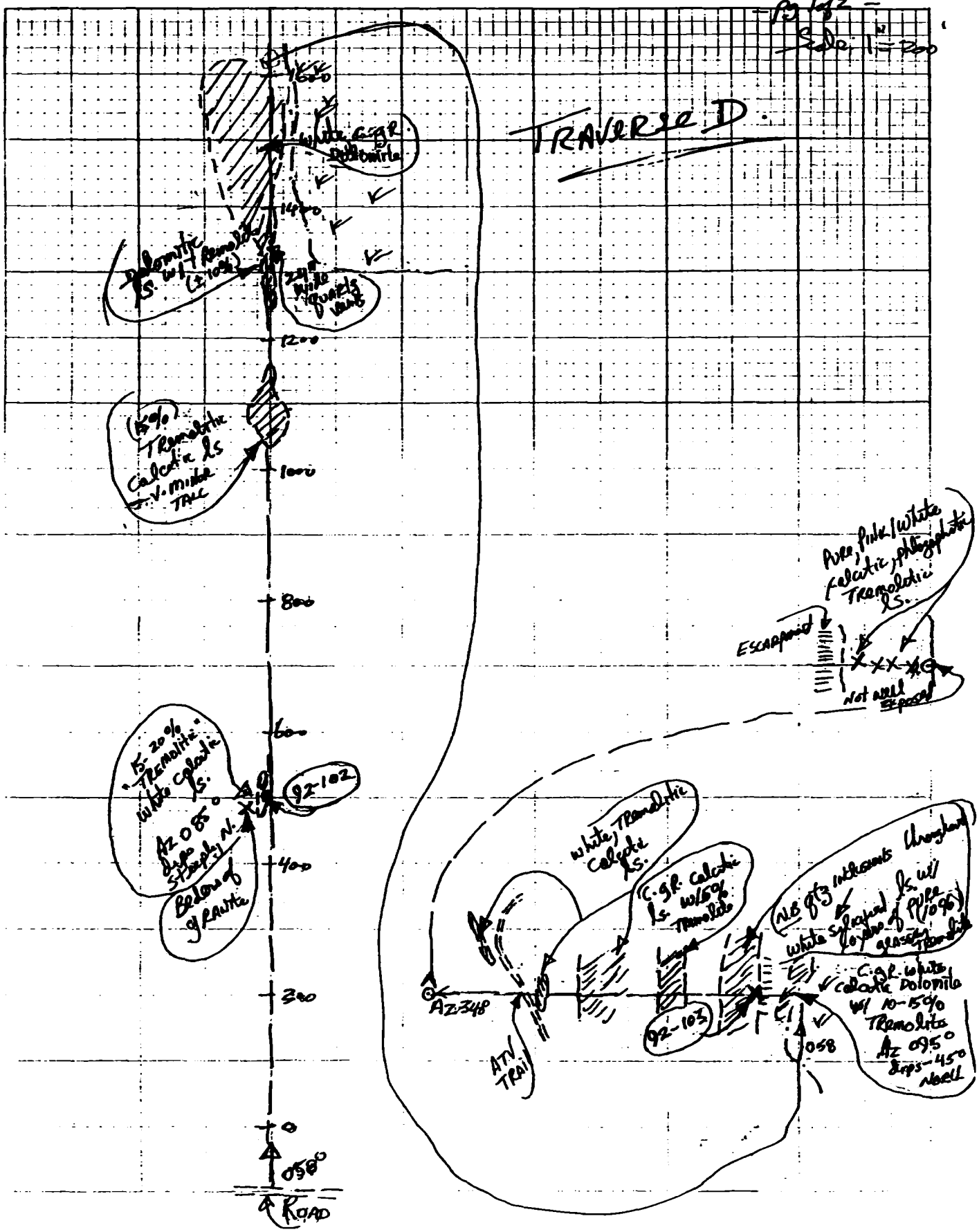


Sept 2/92

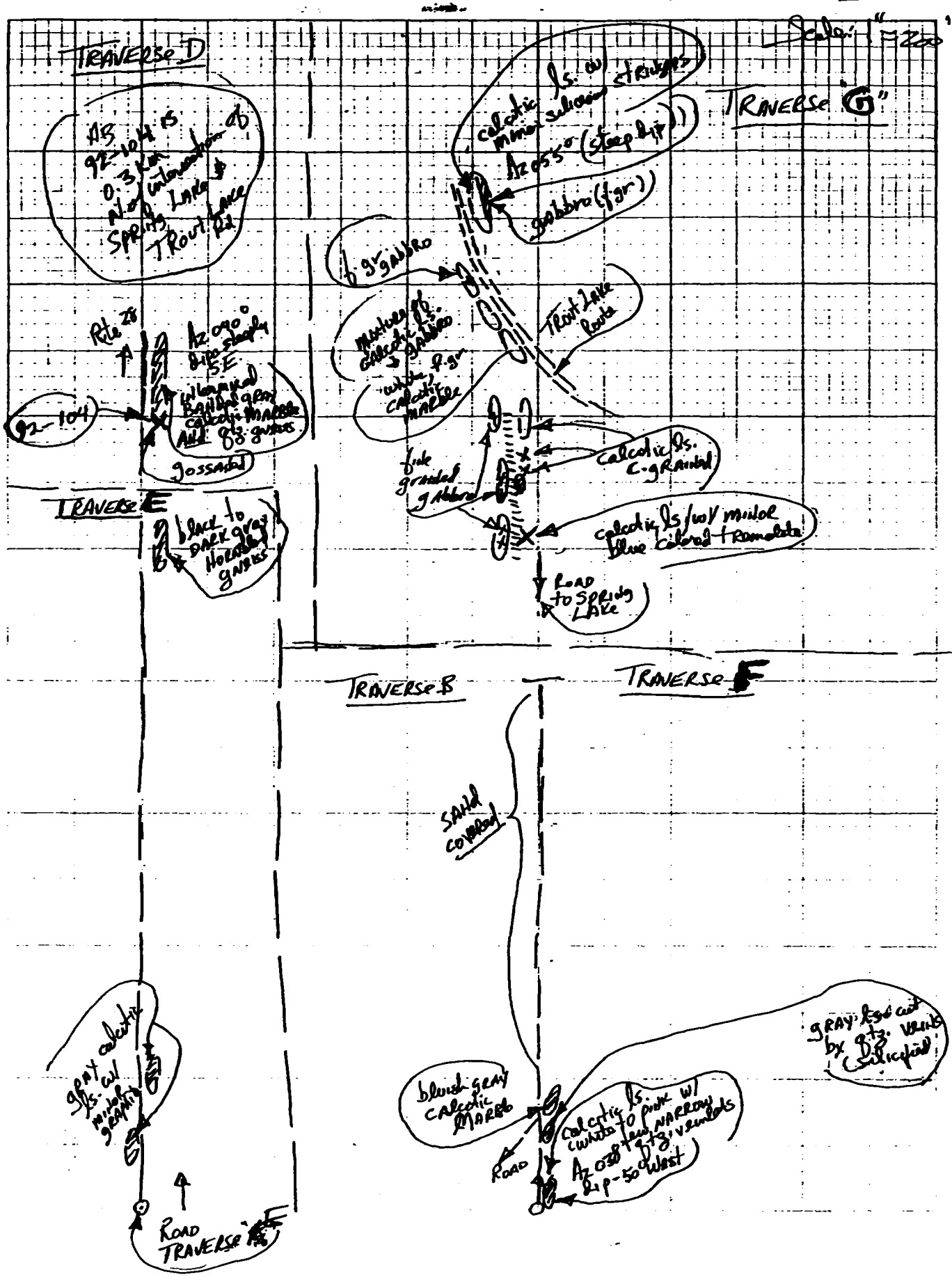
Trout Lake East Extension

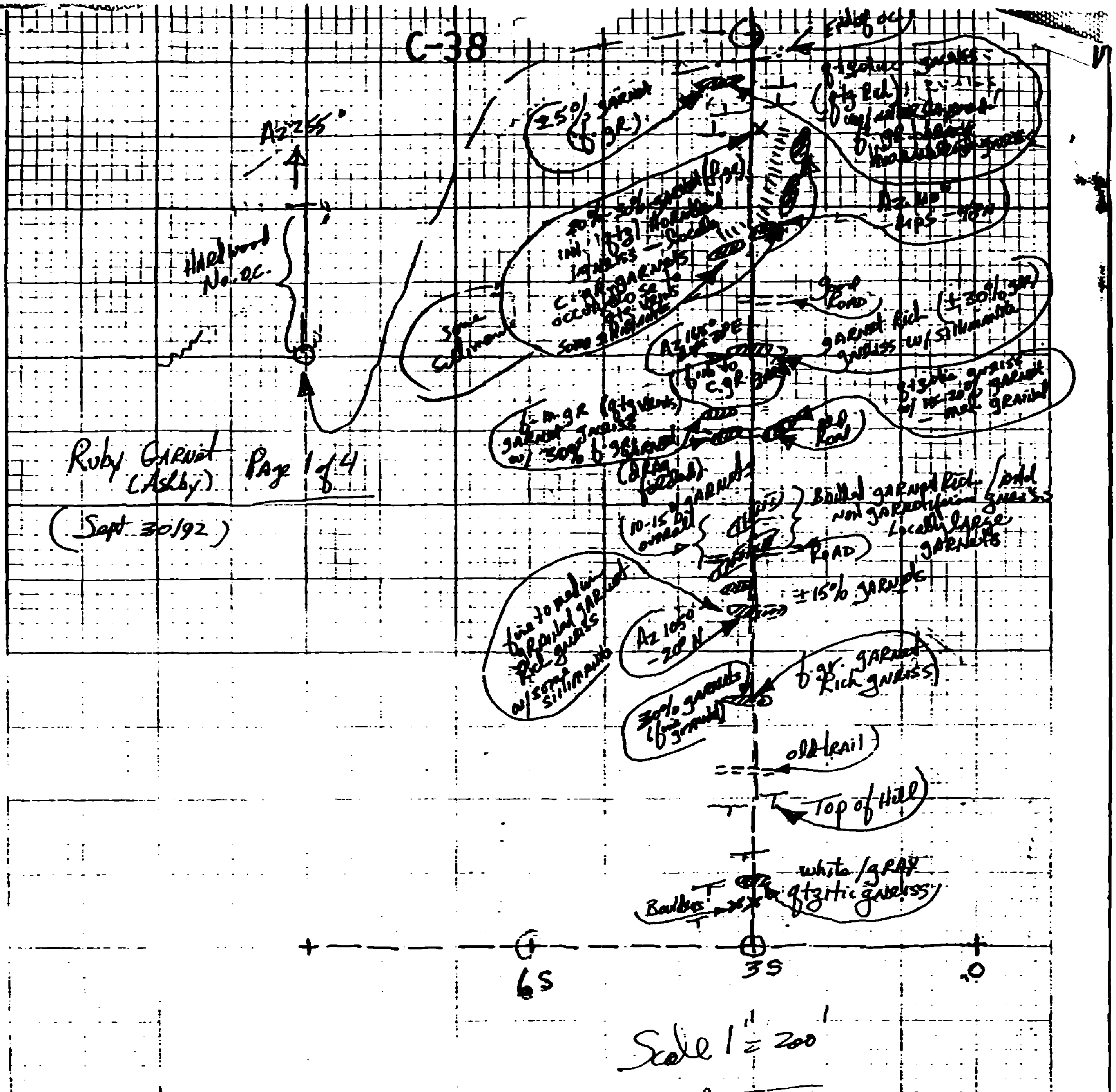
pg 1 of 2

Scale 1" = 200'

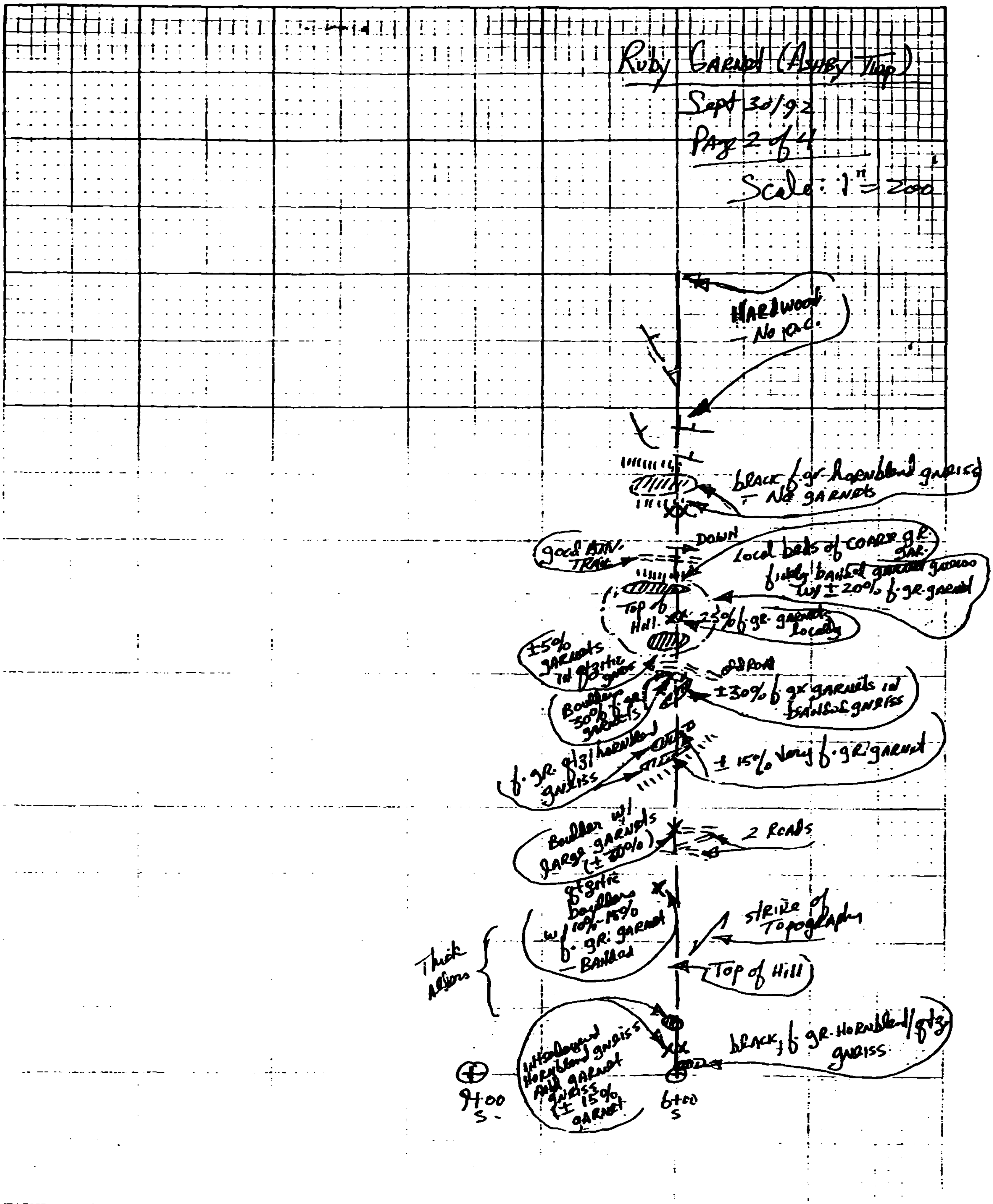


Sept 2/92
Trout Lake Road pg 2 of 2




C-38
Az 255°
Hardwood No. oc.
Ruby Garnet (Ashby) Page 1 of 4
(Sept 30/92)
25% garnet (f.gr.)
some sillimanite
Road
garnet Rich gneiss w/ sillimanite
Road
±15% garnets
Az 105° -20° N
f.gr. garnet Rich gneiss
old Rail
Top of Hill
white/gray qtzitic gneiss
Boulders
6S
3S
0
Scale 1" = 200'

Page 1 of 4

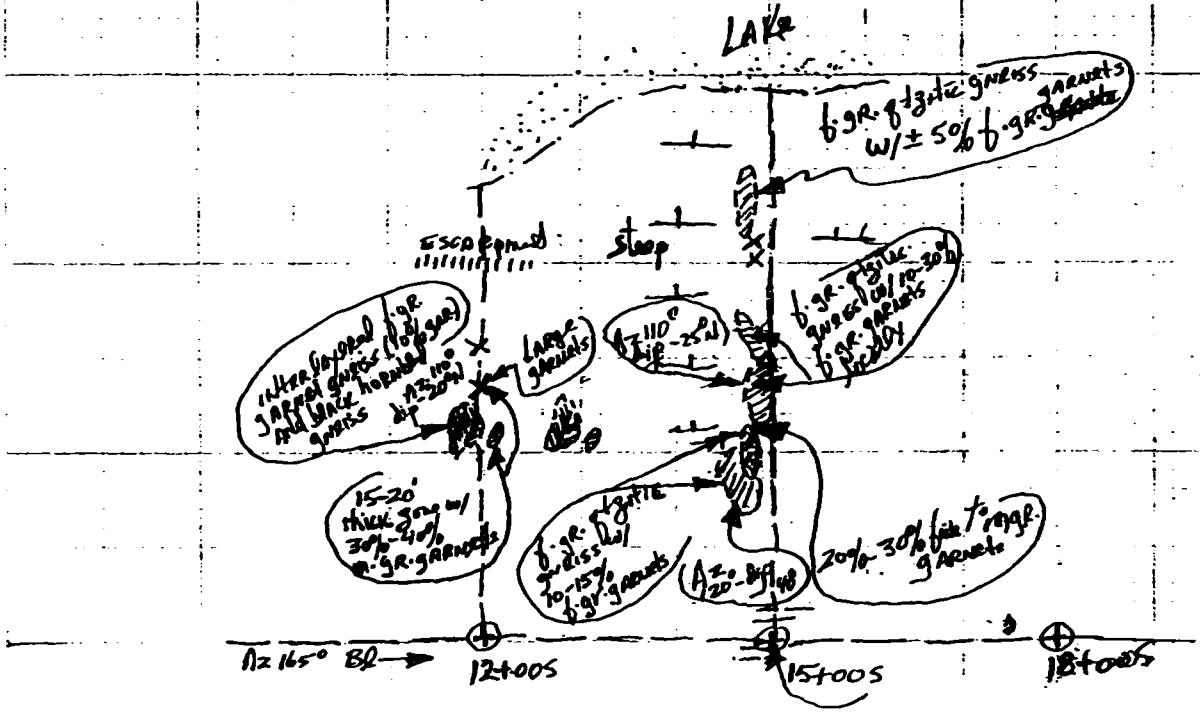

Ruby Garnet (Ashby Twp)
Sept 30/92
Page 2 of 4
Scale: 1" = 200'
Hardwood
No Oc.
black f.gr. hornblend gneiss
No garnets
good ATV trail
DOWN
Local beds of coarse gr.
Top of Hill
±5% garnets
±30% f gr garnets in banded gneiss
± 15% very f.gr. garnet
f. gr. gneiss
Boulder w/ large garnets
2 Roads
strike of Topography
Top of Hill
Thick
black, f gr. hornblend/qtz gneiss
Interlayered hornblend gneiss and garnet gneiss (± 15% garnet)
9+00 S
6+00 S

Ruby Garnet (Ashby Trip)

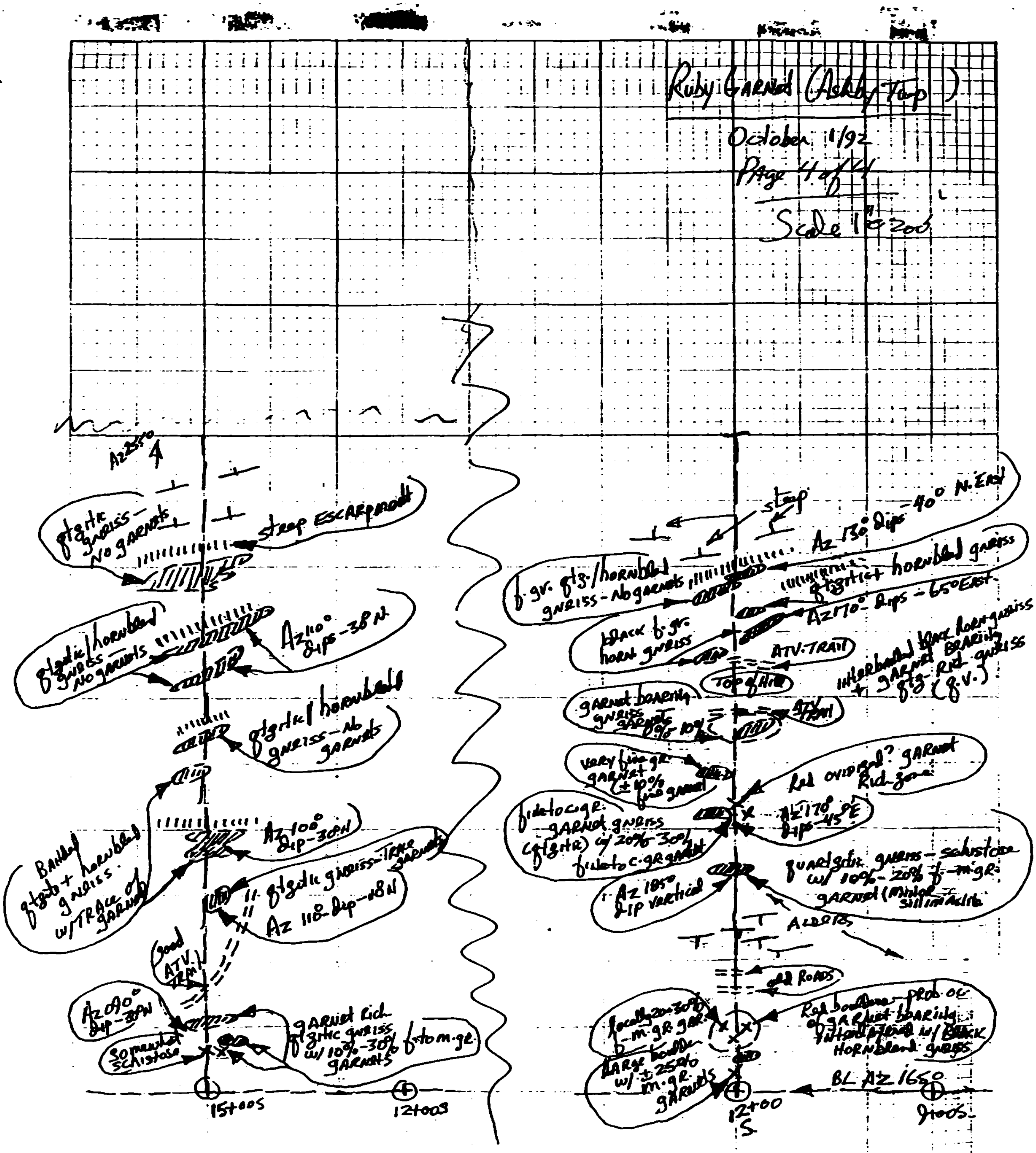
Octada 1/92

Page 3 of 4

Scale 1"=200'



C-41

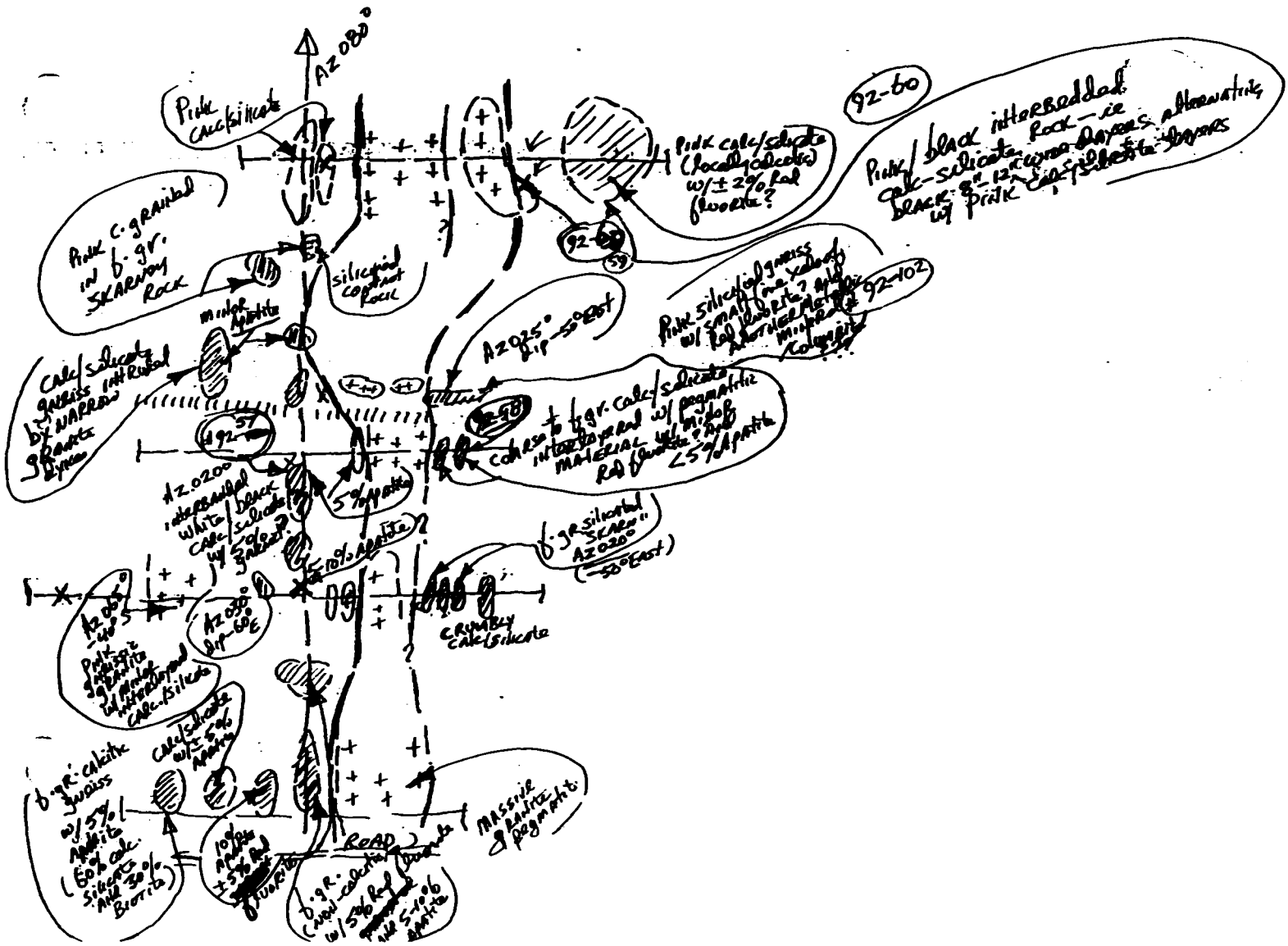

Ruby Garnet (Ashby Twp.)
October 1/92
Page 4 of 4
Scale 1"=200'
gtgtic gneiss - No garnets
steep escarpment
gtgtic/hornblend gneiss No garnets
Az 110° Dips - 38 N.
gtgtic/hornblend gneiss - No garnets
Az 100° Dip - 30 N
Banded gtgtc + hornblend gneiss w/ trace of garnets
gtgtic gneiss - trace garnets
Az 110° Dip - 18 N
Good ATV Trail
Az 090° Dip - 30 N
Somewhat schistose
Garnet rich gtgtic gneiss w/ 10%-30% f. to m. gr. garnets
15+00S
12+00S
steep
Az 130° dips - 40° N. East
f. gr. gtg./hornblend gneiss - No garnets
gtgtic hornblend gneiss
Az 170° dips - 65° East
black f. gr. horn gneiss
ATV Trail
Top of Hill
interbanded black horn gneiss + garnet bearing gtg. Rich gneiss (g.v.)
garnet bearing gneiss garnets 5%-10%
ATV Trail
very fine gr. garnet ± 10% fine garnet
Red oxidized? garnet Rich zone
fine to c. gr. garnet gneiss (gtgtic) w/ 20%-30% fine to c. gr. garnet
Az 170° Dips - 45° E
quartzitic gneiss - schistose w/ 10%-20% f - m gr. garnet (minor sillimanite)
Az 185° Dip vertical
old Roads
locally 20-30% f-m gr. garnets
Red boulders - prob. of garnet bearing interbanded w/ black hornblend gneiss
Large boulder w/ ±25% m. gr. garnets
BL Az 165°
12+00 S
9+00S

Brougham Twp.

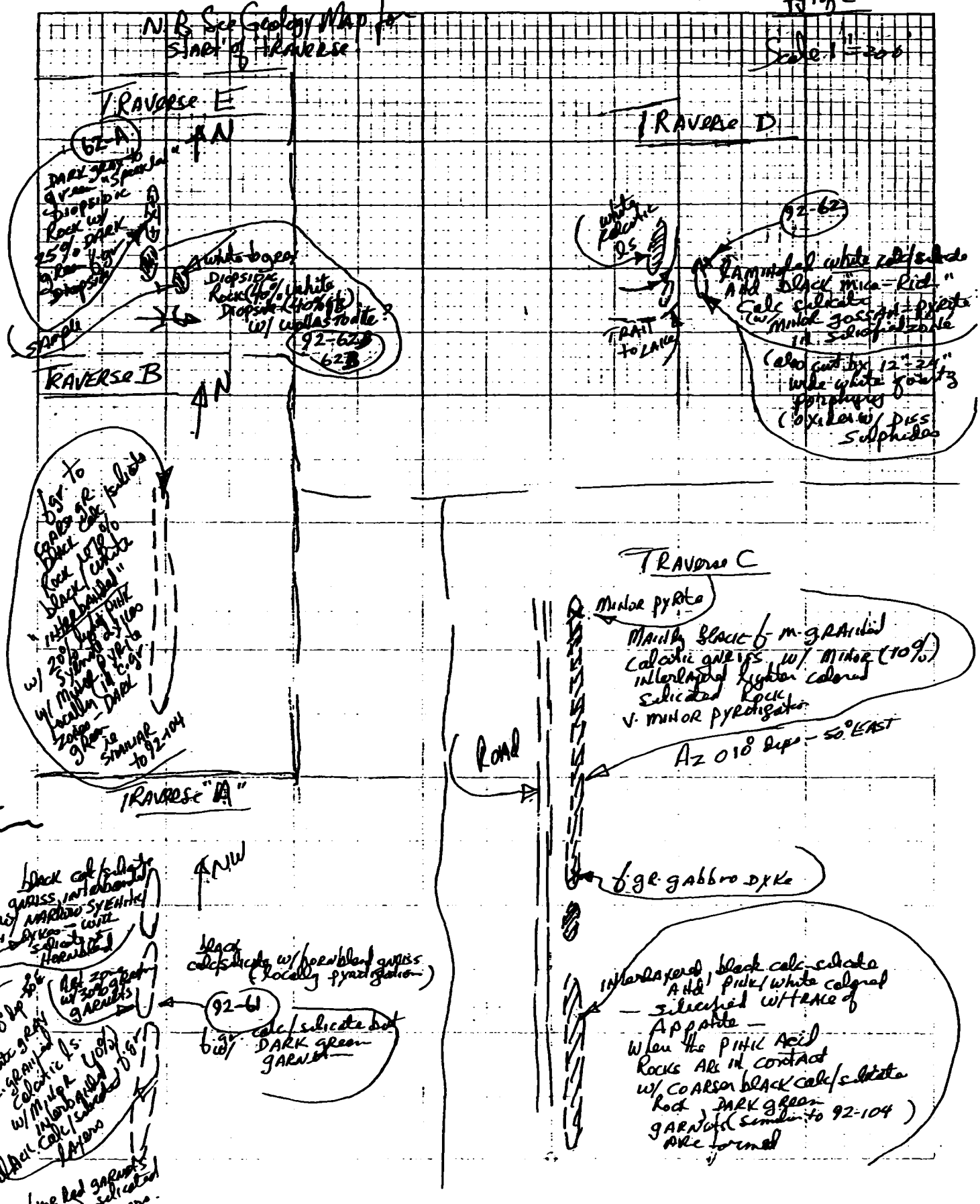
July 21/92

I. HARRIS

Scale 1" = 200'



Brougham Twp (South)
July 22/92
1 of 2



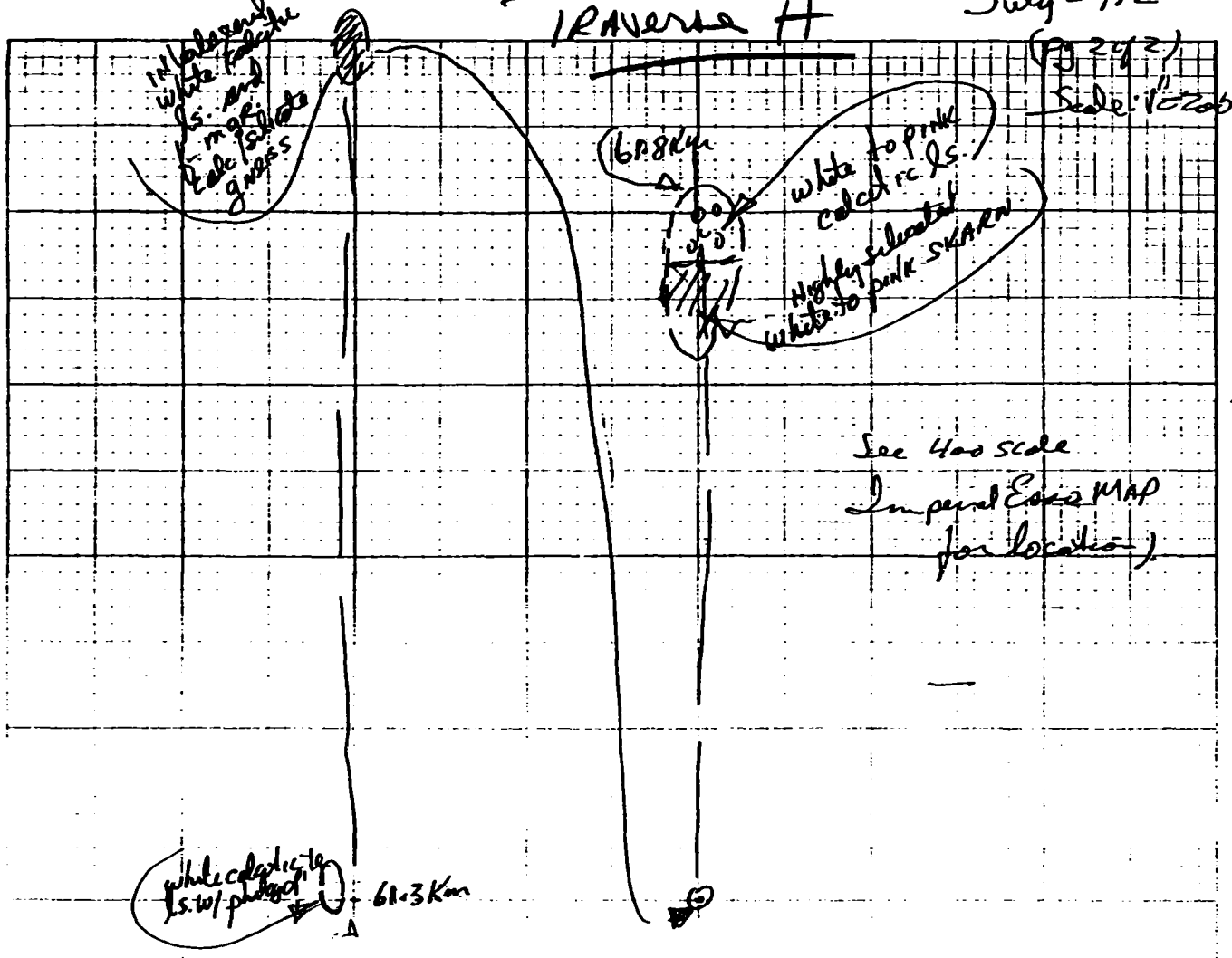
Broughan Twp

July 22/92

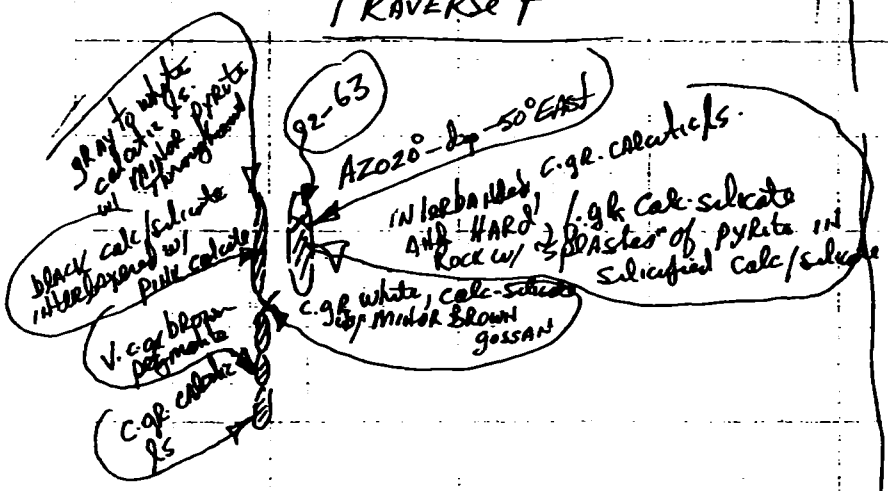
TRAVERSE H

(Pg 2 of 2)

Scale: 1" = 20'



TRAVERSE "F"

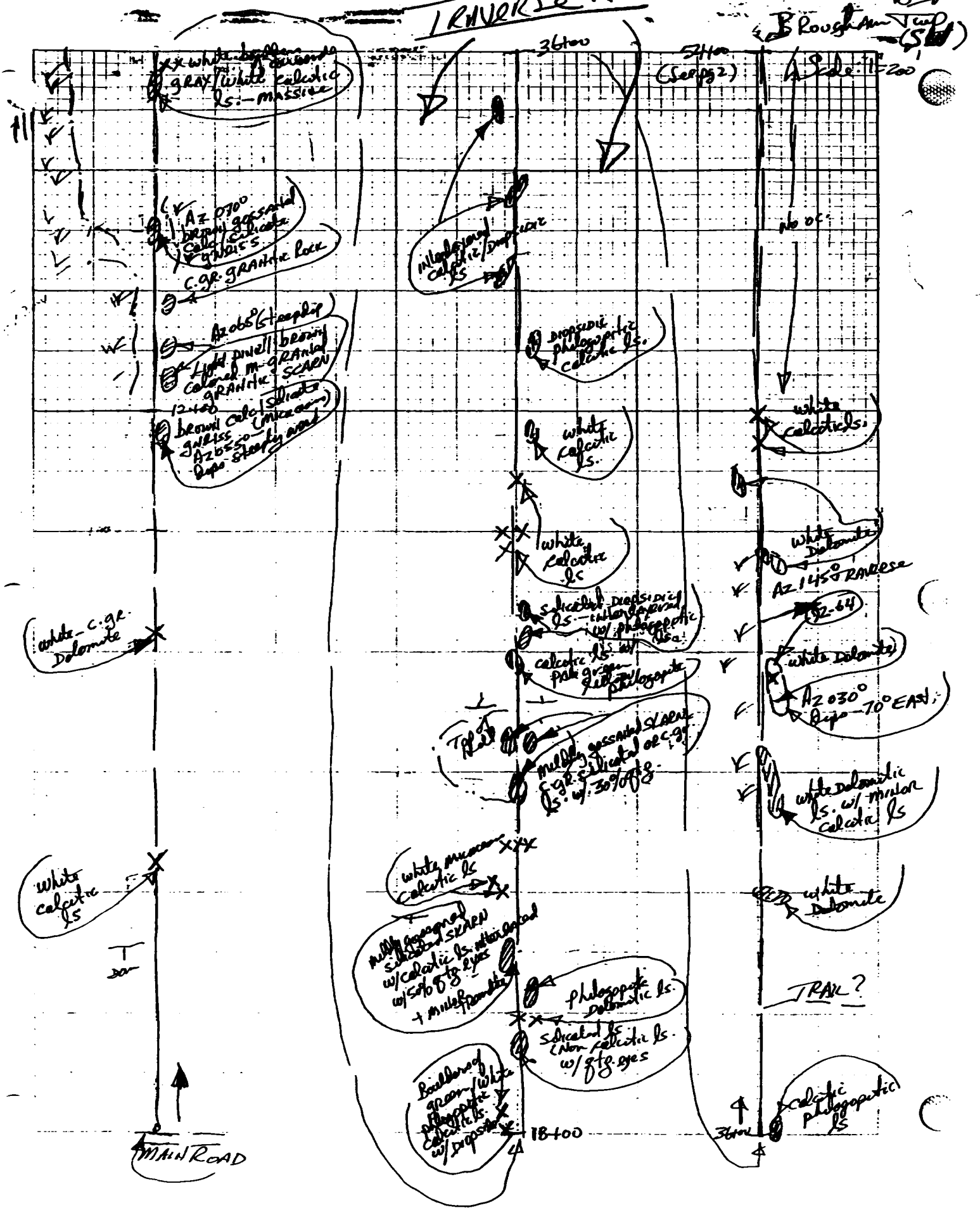


C-45

July 23/92

Pg 1 of 2

RIVER A



July 23/92
North Canboro/
Brougham Strap.

Scale: 1" = 200

TRAVERSE C

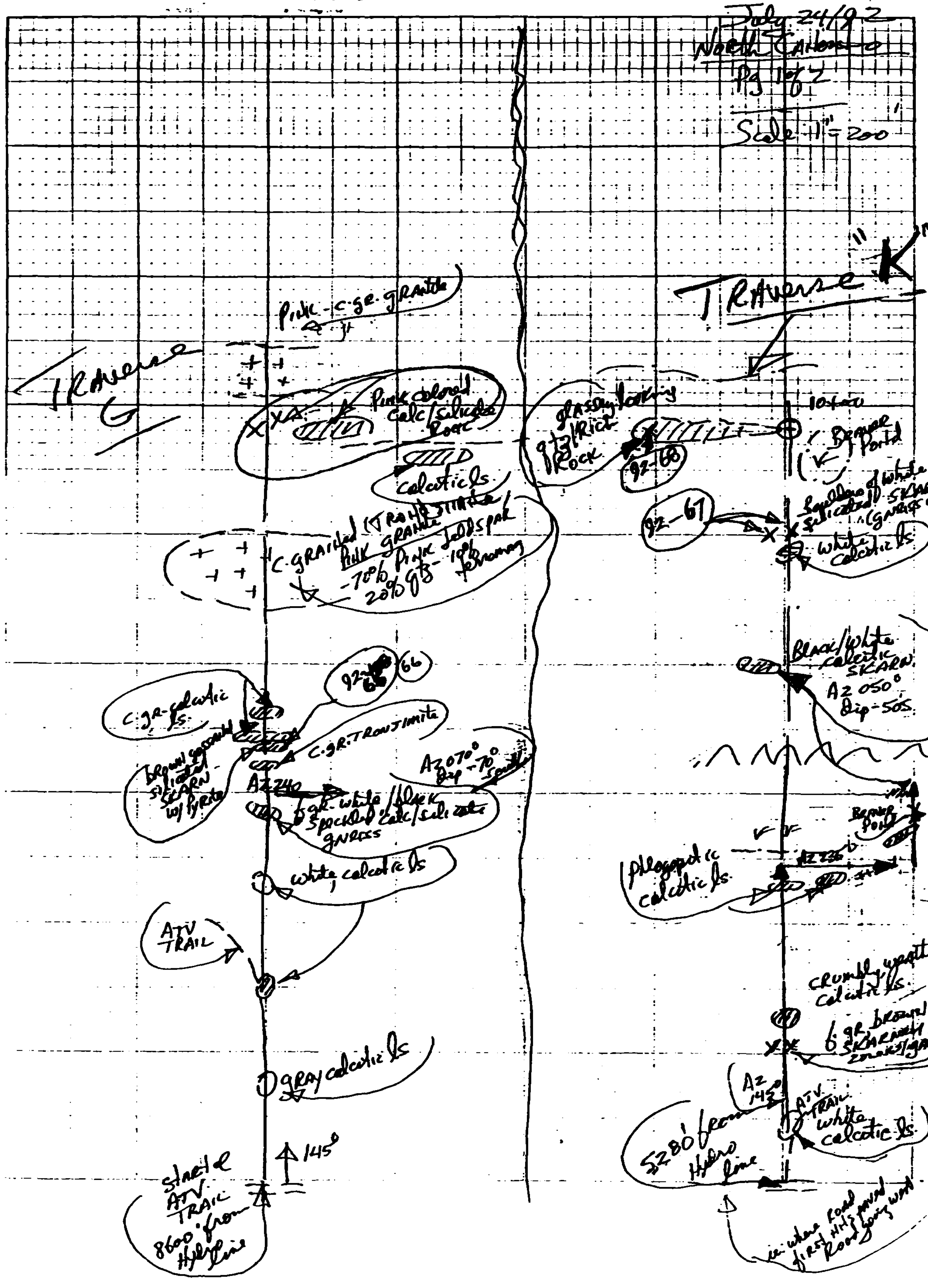
0
800'
200
020
050E
010
Road TRAVERSE C → 66 NE
Cut Attached to Road
S15
C15E
Bird
MAPLE
POPLAR
T
D
SKARNED GRANITIC
minor SKARNING
f. gr. silicified SKARN Rock
Az 040° Dips -40°S
white & black laminated SKARN
2" to 12" wide
Abt. 50% white gtz/diopside + black hornblende
Az 145°
Bed
black hornblende silicified SKARN w/ Red GARNETS
Az 145°

TRAVERSE A

62+00
No oc.
60+00
58+00
66+00
Road TRAVERSE
5400

TRAVERSE B

f. GRAINED GRANITE
gneissic/ hornblende SKARN Rock
Az 040° Dips -45°S.
gneissic laminated gtz/hornblende SKARN
92-65
BROWN/Red GOSSANED Silicified SKARN
Az 040° Dips -45°S
steep
T
Calcitic/phlogopitic ls
white dolomite
white calcitic/Diopsidic ls
Az 145° TRAVERSE
WOODS TRAIL
Az 145°-1

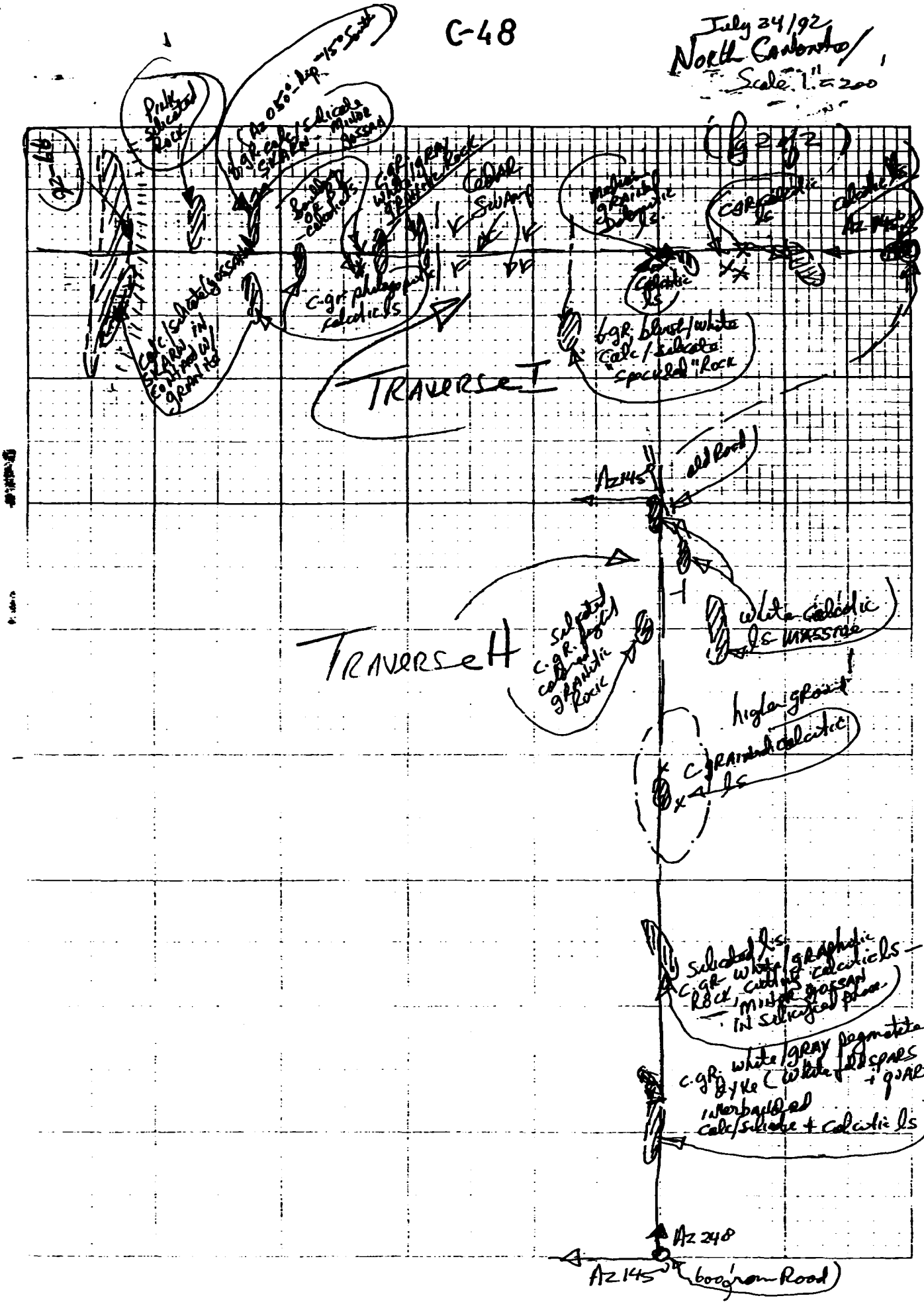

July 24/92
North Carbonate
Pg 1 of 2
Scale 1" = 200'
Traverse "K"
Traverse G
Pink c.gr. granite
Pink colored calc/silicate rock
calcitic ls.
C. grained (TRONDJEMITE) PINK GRANITE
Pink feldspar
-70% Pink feldspar 20% qtz - 10% ferromag
92-65 66
c.gr-calcitic ls.
Brown garnet silicated SKARN w/ pyrite
C.GR. TRONDJEMITE
Az 070° Dip - 70° South
Az 240
f.gr. white/black speckled calc/silicate gneiss
white, calcitic ls
ATV TRAIL
Gray calcitic ls
145°
Start of ATV TRAIL 8600' from Hydro line
glassy looking qtz rich rock
92-68
10+00
Beaver Pond
92-67
white calcitic ls
Black/white calcitic SKARN Az 050° Dip - 50S
Beaver Pond
phlogopitic calcitic ls.
crumbly weathered calcitic ls.
f.gr. brown SKARN
Az 145°
5280' from Hydro line
ATV TRAIL white calcitic ls.
i.e. where road first hits paved road going west

C-48

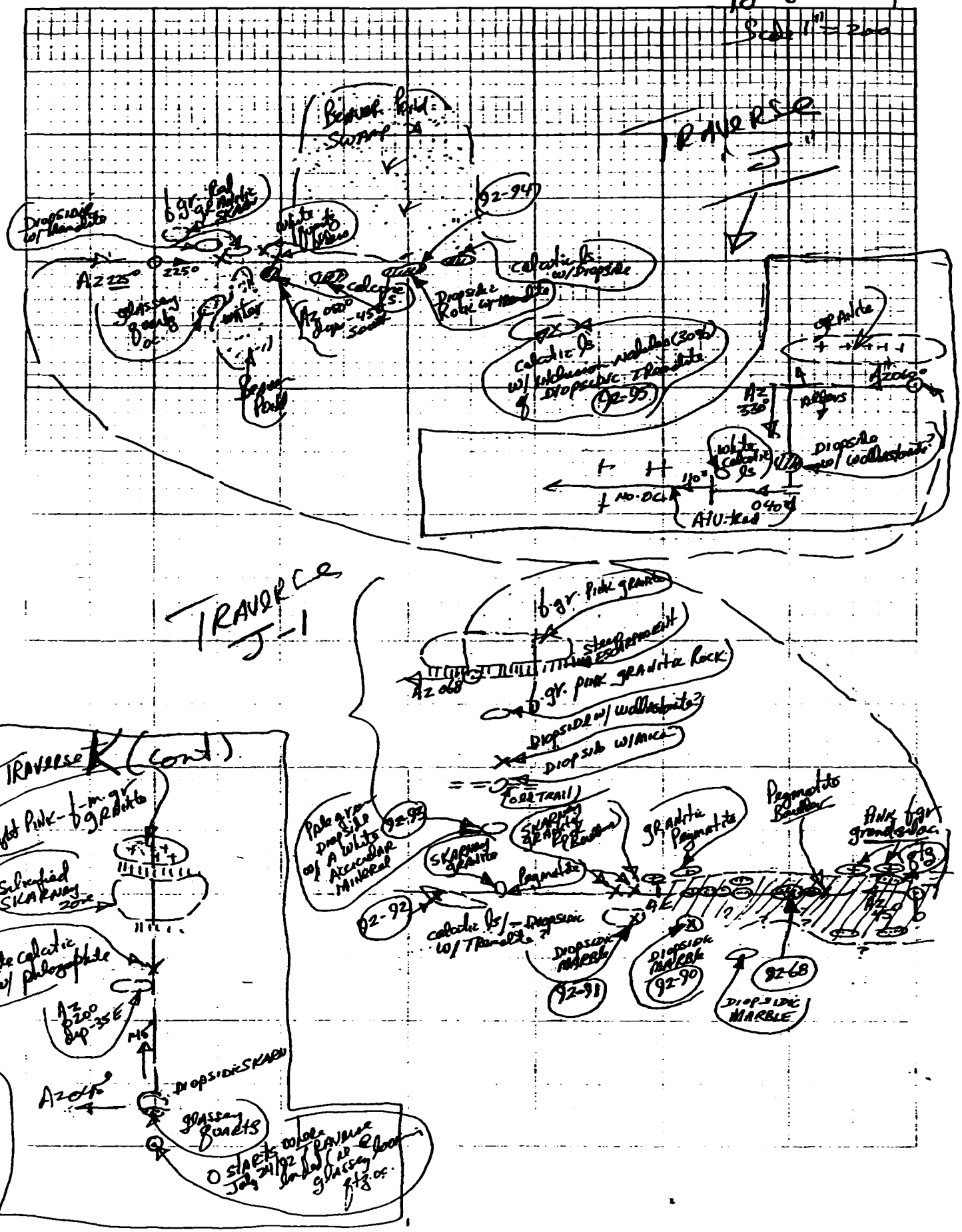
July 24/92

North Carbonate

Scale 1" = 200'



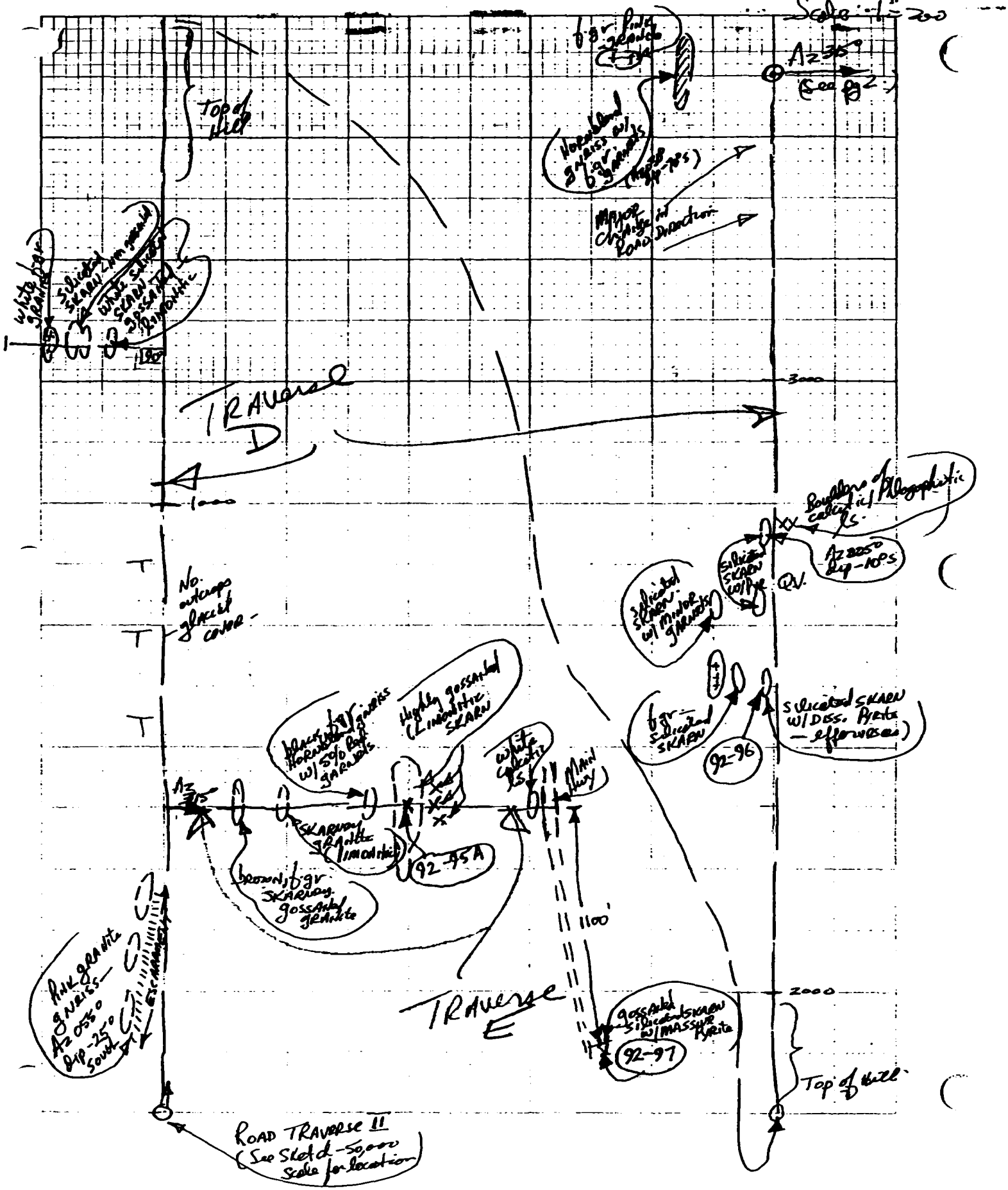
Aug 13/92
North Canada
Pg 1 of 1



Aug 11/92 Pg 1 of 2

Broughton Twp

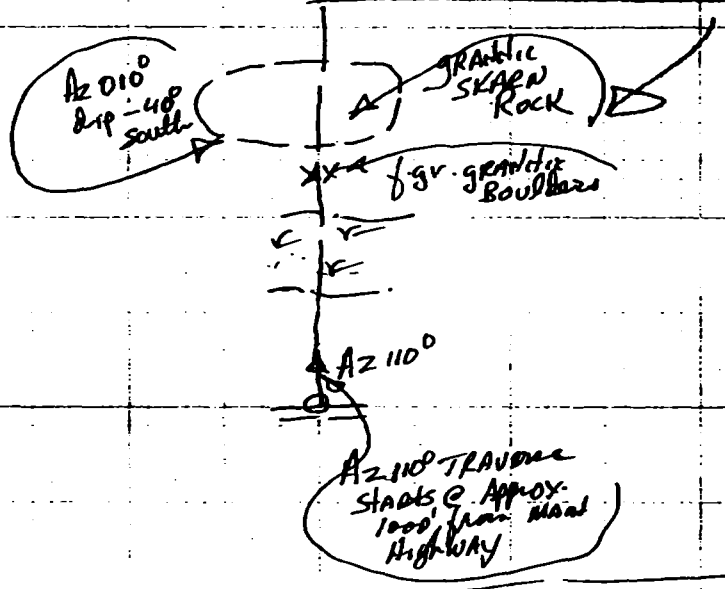
Scale: 1" = 200'



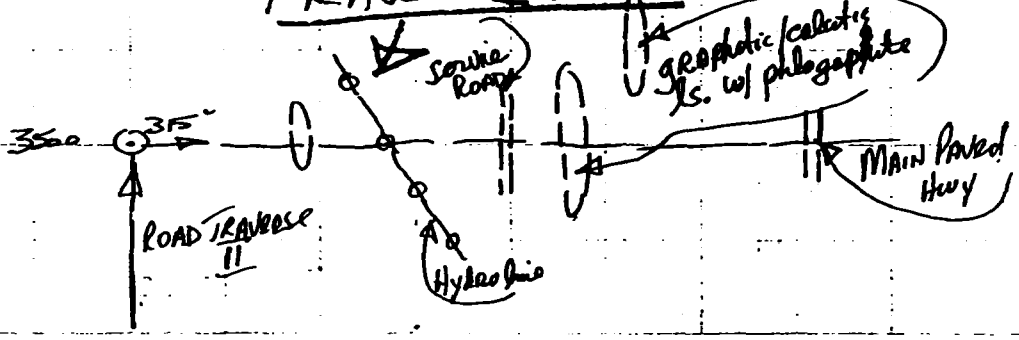
Aug 14/92
Bloorhom Twp -
Pg 2 of 2

Scale: 1" = 20'

TRAVERSE A-1



TRAVERSE F



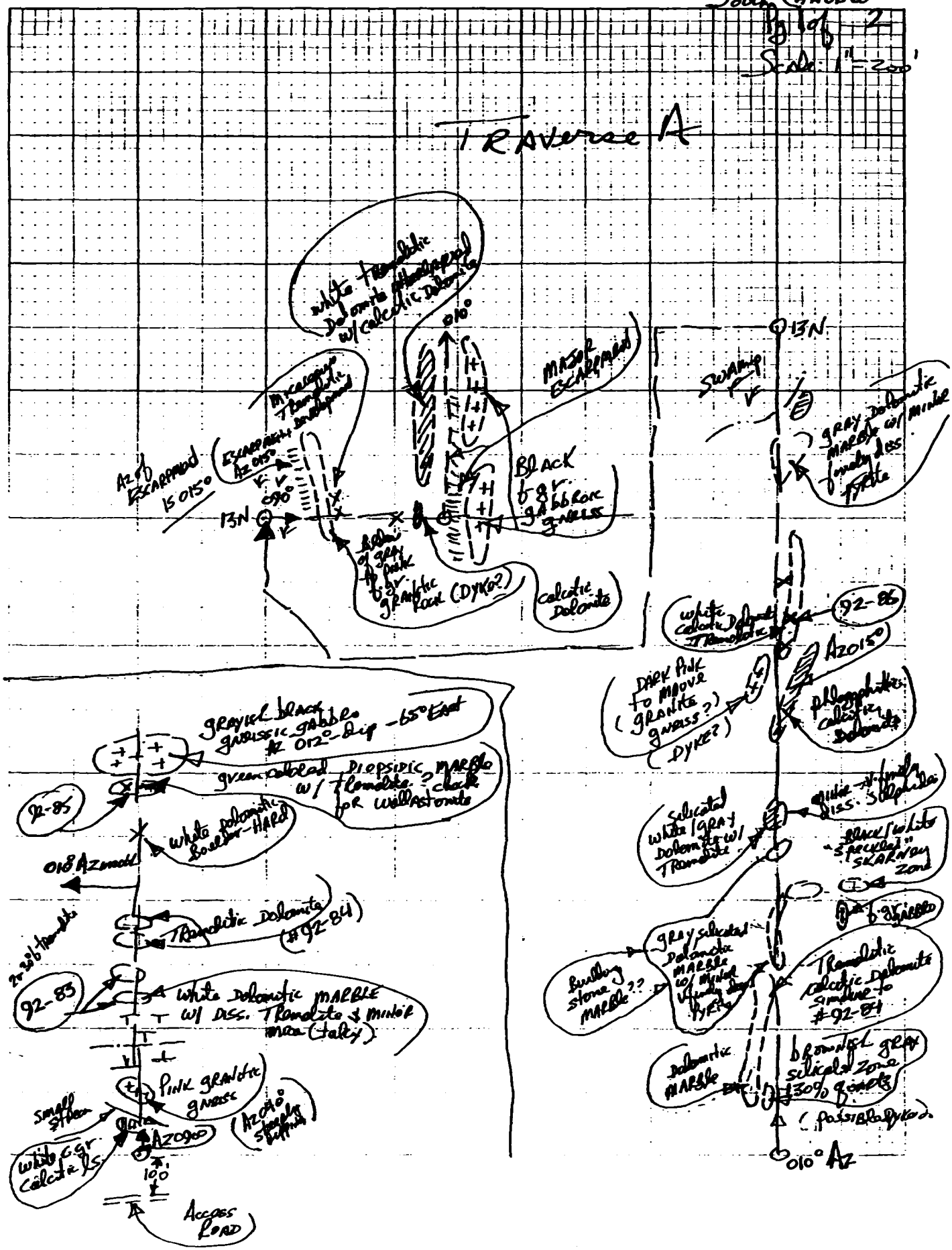
Aug 12 /92

South Canada Ho

Pg 1 of 2

Scale 1" = 200'

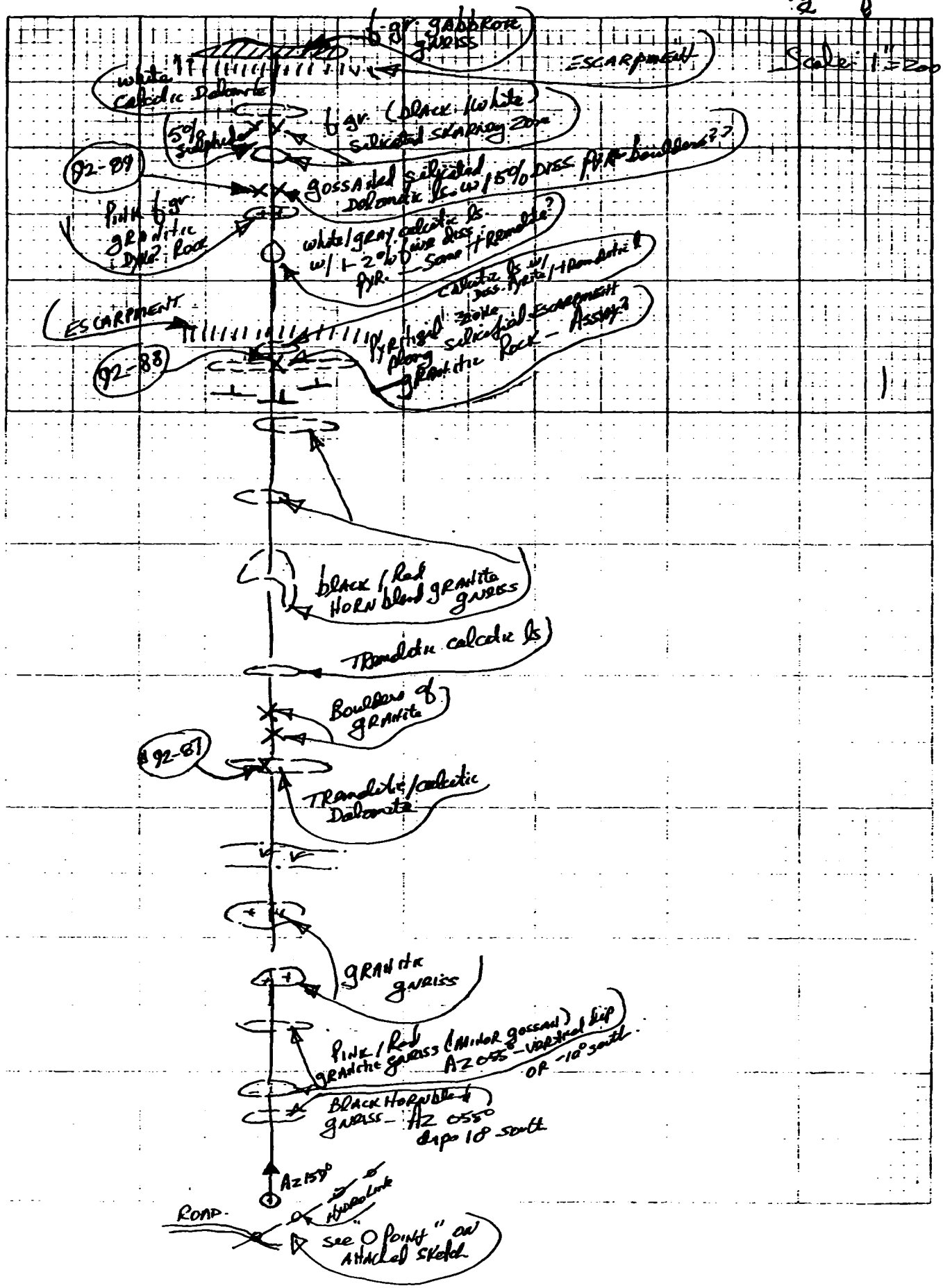
Traverse A



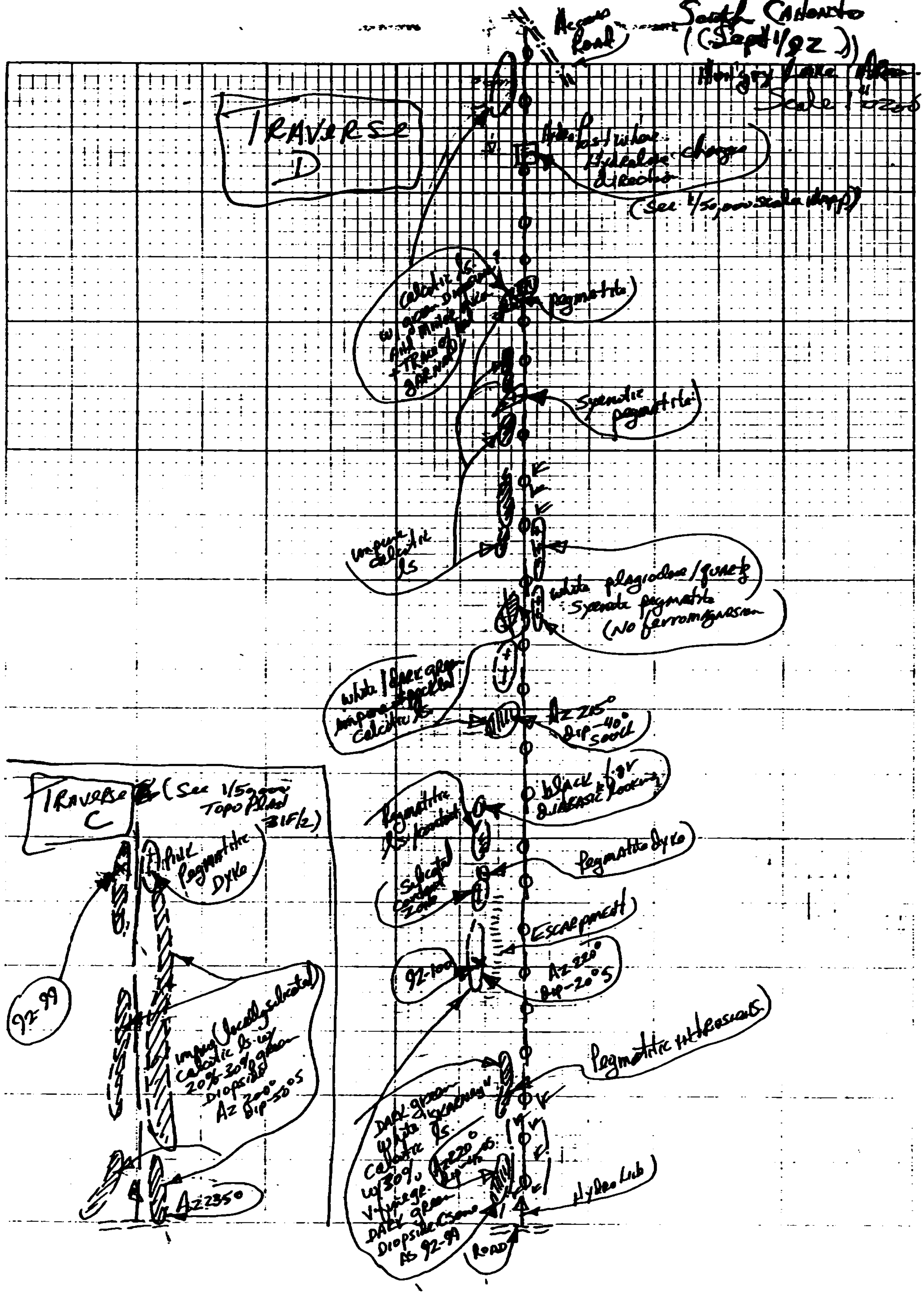
C-53

Traverse B

Aug 12/92
Santa Catalina
Pg 2 of 2



235
180
55

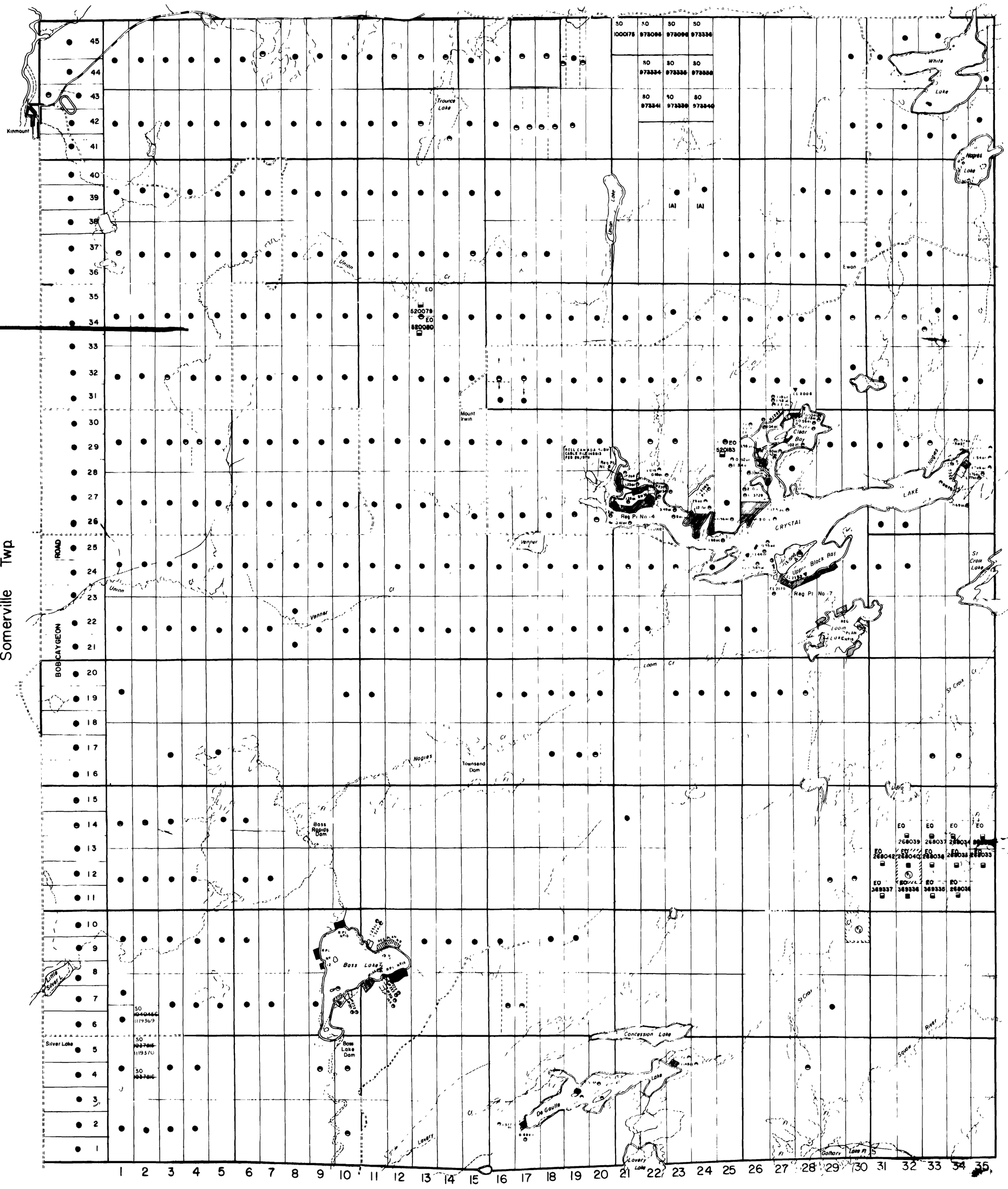

South Canadanto
(Sept 1/92)
Hungry Lake Area
Scale 1" = 200'
Access Road
TRAVERSE D
(See 1/50,000 scale map)
white plagioclase / quartz
syenite pegmatite
(No ferromagnesian)
Calcitic ls.
w/ green diopside
and minor
+ trace of
garnet
pegmatite
Syenite pegmatite
impure calcitic ls
white / dark green
impure speckled
Calcitic ls
Az 215°
Dip -40°
500 ft
black f.gr.
diabasic looking
Pegmatite
ls. contact
Pegmatite Dyke
Silicated contact zone
Escarpment
92-100
Az 220°
Dip -20° S
Pegmatite intrusions
Dark green
white "speckled"
Calcitic ls.
w/ 30%
V. impregn.
Dark green
Diopside same
as 92-99
Az 220°
Dip -30°
Hydro Lab
Road
TRAVERSE C
(See 1/50,000 Topo Plan 31F/2)
Pink Pegmatite Dyke
92-99
impure (locally silicated)
Calcitic ls. w/
20%-30% green
Diopside
Az 200°
Dip -50° S
Az 235°

Snowdon Twp.

Somerville Twp

Cavendish Twp.

Harvey Twp.



LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS BASE LINES ETC
  - LOTS, MINING CLAIMS PARCELS ETC
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT
- LAND ACQUISITION (A)

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	◒
MINING RIGHTS ONLY	◒
LEASE SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	◨
" MINING RIGHTS ONLY	◨
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	ⓡ
CANCELLED	ⓒ
SAND & GRAVEL	ⓢ

NOTE MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 380 SEC. 63 SUBSEC. 1

SCALE 1 INCH = 40 CHAINS

0 1000 2000 4000 6000 8000 FEET
0 500 1000 2000 METRIC (1 KM) (2 KM)

NOTES

This Map Is Not To Be Used
—FOR SURVEY PURPOSES—

For status of summer resort location shown thus ▨ ▬
Please contact Ministry of Natural Resources.

Original shoreline shown thus ——
F R I shoreline shown thus .....

400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.

AREAS WITHDRAWN FROM DISPOSITION

M.R.O – MINING RIGHTS ONLY
S.R.O. - SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No	Date	Disposition	File

DATE OF ISSUE
[illegible] 1982
SOUTHERN ONTARIO MINING DIVISION

SAND & GRAVEL

- (S) M.N.R. GRAVEL FILE 157141
- (S) M.N.R. GRAVEL RES FILE 5813
- (S) GRAVEL FILE 26819

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LAND SHOWN HEREON

TOWNSHIP
GALWAY

M.N.R. ADMINISTRATIVE DISTRICT
MINDEN

MINING DIVISION
SOUTHERN ONTARIO

LAND TITLES / REGISTRY DIVISION
PETERBOROUGH

Ontario Ministry of Natural Resources | Ministry of Northern Development and Mines

Date FEBRUARY, 1987

Number G-1287

J P van K

RES. GEO. TWEED (BANCROFT) M.N.R. DIST. MINDEN

Raglan Twp.

Mayo Twp.

Denbigh Twp.

Cashel Twp.

Effingham Twp.

THE TOWNSHIP OF ASHBY

COUNTY OF LENNOX & ADDINGTON

SOUTHERN ONTARIO MINING DIVISION

SCALE 1-INCH= 40 CHAINS

DISPOSITION OF CROWN LANDS

PATENT, SURFACE AND MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LEASE, SURFACE AND MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ROADS
IMPROVED ROADS
KINGS HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
MINES

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

Mining Claims in the Subdivided portion of this Township are accepted subject to Sec 53 of the Mining Act.

Portion of this Township annulled under authority of subsection 1, of section 11, of the Public Lands Act

AREAS WITHDRAWN FROM DISPOSITION

S R -- SURFACE RIGHTS M R - MINING RIGHTS

	Description	Order No	Date	Disposition	File
(1)	PUBLIC USE		6/2/44	S R	21161
(2)	PUBLIC USE		21/10/55	S R	88006
(3)	ROAD ALLOWANCE		13/9/55	S R	110895
(4)	PUBLIC USE		5/4/65	S R	160708
(5)	BUFFER ZONE AROUND WASTE DISPOSAL SITE				

SAND & GRAVEL

(1) GRAVEL FILE 189994

(2) MNR GRAVEL FILE 131044
(3) GRAVEL FILE 31044
(4) QUARRY PERMIT
(5) MNR GRAVEL RESERVE 6F19 FILE 186503
(6) MNR GRAVEL RESERVE 6F20 FILE 186503

DATE OF ISSUE
FEB 26 1992
SOUTHERN ONTARIO MINING DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

PLAN NO. M.46

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

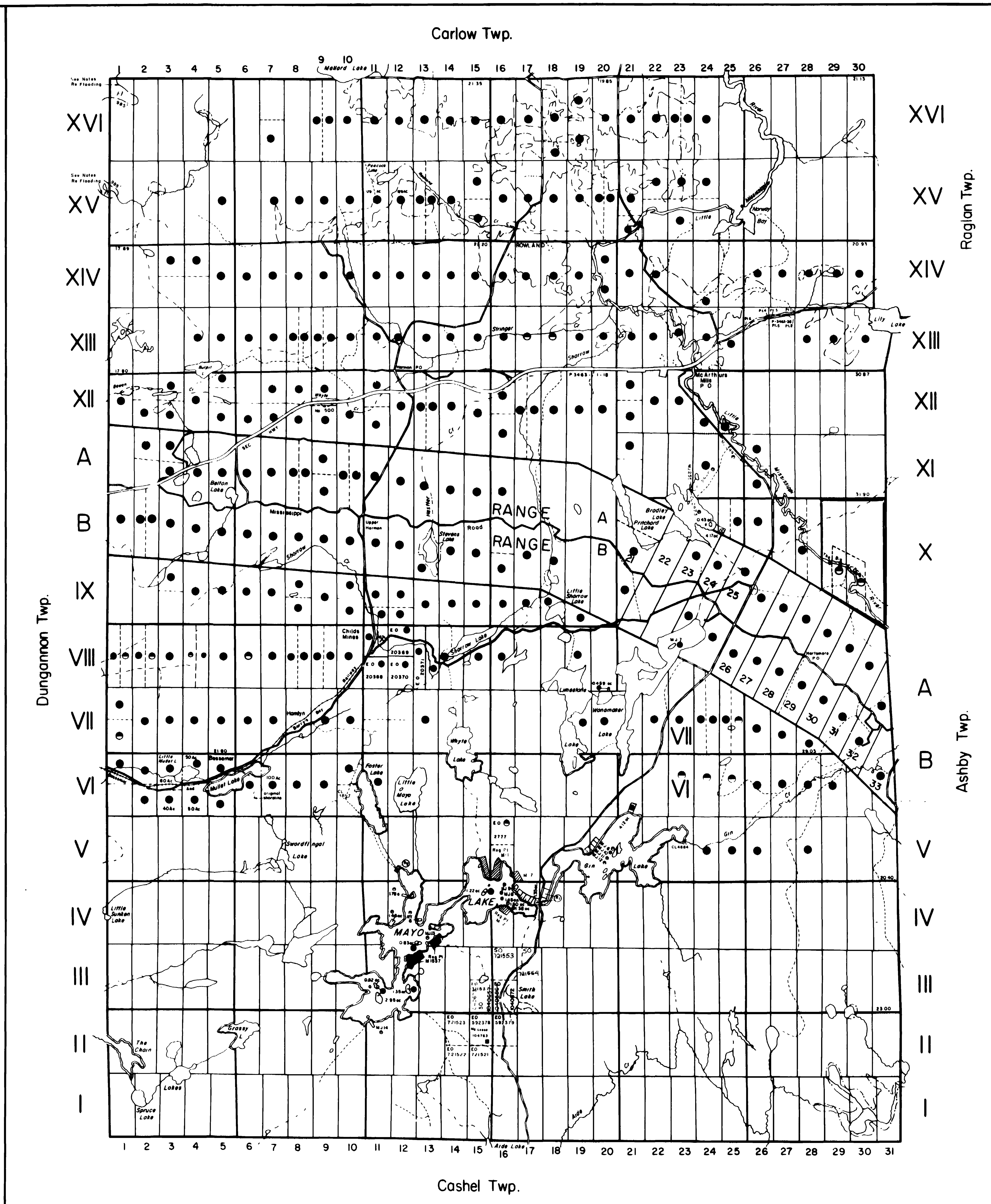
MAYO

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No	Date	Disposition	File
(R_1)	M N R RES		16/6/78	PUBLIC ACCESS	188503
(R_2)	PUBLIC RES				74143

NOTE: FLOODING RIGHTS, UP TO CONTOUR 986', RESERVED TO ONTARIO HYDRO File: 22311



LEGEND

HIGHWAY AND ROUTE No
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC
LOTS, MINING CLAIMS, PARCELS, ETC
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	⊖
" MINING RIGHTS ONLY	⊖
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	⊟
" MINING RIGHTS ONLY	⊟
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	Ⓢ

NOTE MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R S O 1970 CHAP 380 SEC 63 SUBSEC 1

SCALE 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

DATE OF ISSUE
MAR - 6 1992
SOUTHERN ONTARIO MINING DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

OP 72-244

TOWNSHIP
MAYO

M.N.R. ADMINISTRATIVE DISTRICT
BANCROFT
MINING DIVISION
SOUTHERN ONTARIO
LAND TITLES / REGISTRY DIVISION
HASTINGS

Ministry of Natural Resources
Ministry of Northern Development and Mines
Ontario

Date OCTOBER 1986

Number G-3054

31F07SW0001 OP92-244 SNOWDON

220

RES. GEO. TWEED (BANCROFT)
M.N.R. DIST. BANCROFT

OP92-244

G-1300

LEGEND

HIGHWAY AND ROUTE No
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC
LOTS, MINING CLAIMS, PARCELS, ETC
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◓
" MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	⬒
" MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	Ⓢ
LAND ACQUISITION	(A)

NOTE MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 380 SEC. 63, SUBSEC 1

SCALE 1 INCH - 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

SNOWDON TWP

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
S.R.O. - SURFACE RIGHTS ONLY
M.+ S. - MINING AND SURFACE RIGHTS

Description	Order No	Date	Disposition	File

DATE OF ISSUE
MAR - 6 1992
SOUTHERN ONTARIO MINING DIVISION

RES. GEO. TWEED

M.N.R. DIST.

MINDEN

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

230

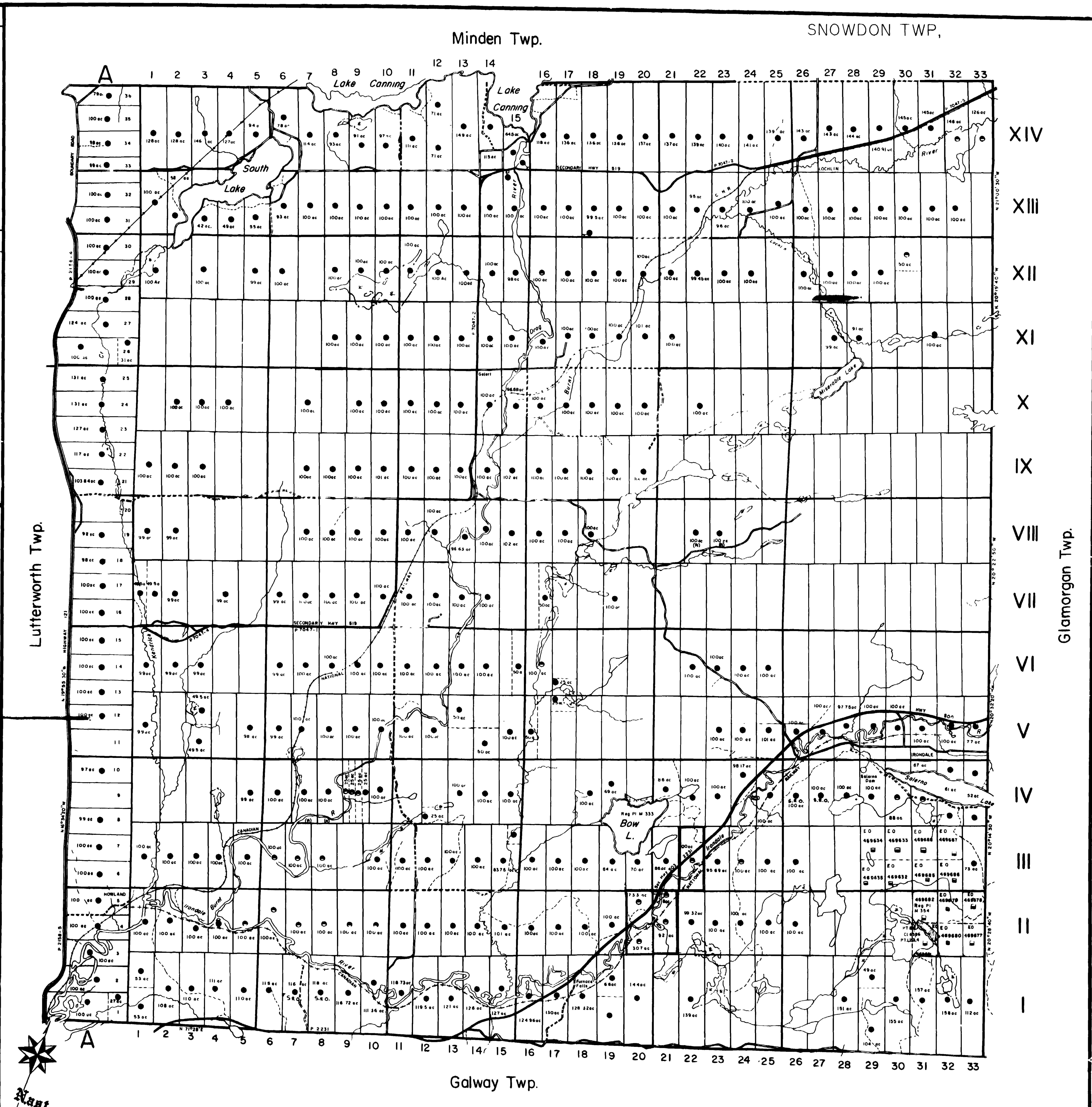
TOWNSHIP
SNOWDON

M.N.R. ADMINISTRATIVE DISTRICT
MINDEN
MINING DIVISION
SOUTHERN ONTARIO
LAND TITLES / REGISTRY DIVISION
HALIBURTON

Ontario — Ministry of Natural Resources | Ministry of Northern Development and Mines

Date FEBRUARY, 1987 | Number G-1300

G-1300



THE TOWNSHIP OF NORTH & SOUTH CANONTO

COUNTY OF FRONTENAC

SOUTHERN ONTARIO
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or Ⓟ
CROWN LAND SALE	C S
LEASES	(L)
LOCATED LAND	Loc
LICENSE OF OCCUPATION	I O
MINING RIGHTS ONLY	MRO
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KINGS HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	K.C.
TRAILS	
PATENTED S.R.O.	●

NOTES

This Map Is Not To Be Used FOR SURVEY PURPOSES

Lot And Concession Lines Shown Hereon Are Projected From The Best Information Available But Their True Position Is Not Guaranteed For Official Survey Purposes Consult The Original Survey Plans And Field Notes.

400' surface rights reservation along the shores of all lakes and rivers

The Acreages shown are the amounts that were patented and do not necessarily represent the true surveyed area of the parcel

L O 7990 – reserving Flooding Rights to contour elevation 662.5' to Ont. Hydro File 1278 v 2

Flooding Rights reserved for Mountain Chute Development on Madawaska River to contour elev 817' File 83050 v 182

Portion of Madawaska River under Water Power Lease No 100 to Ont Hydro File 1278 v 2

HY 110 – flooding rights reserved to contour elev 817' under W P L A No 79

SAND AND GRAVEL

@ QUARRY PERMIT

(P1) M N R 6F10 GRAVEL RESERVE
(P2) M N R 6F11 GRAVEL RESERVE
(P3) M N R 6F12 GRAVEL RESERVE

PFS. GEO. TWEED
M.N.R. DIST. TWEED

DATE OF ISSUE
FEB 6 1992
SOUTHERN ONTARIO MINING DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

PLAN NO.-M. 68

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Brougham Twp.(M.58)

Matawatchan Twp. (M. 123)

Blithfield Twp. (M. 55)

Miller Twp. (M.127)

Lavant Twp.(M.112)

Palmerston Twp.(M.139)

240

Glamorgan Twp. (M-95)

Galway Twp. (M-94)

Anstruther Twp. (M-45)

Harvey Twp. (M-101)

Burleigh Twp. (M-62)

THE TOWNSHIP OF CAVENDISH

COUNTY OF PETERBOROUGH

SOUTHERN ONTARIO MINING DIVISION

SCALE · 1 INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C S
LEASE	(L)
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L O
MINING RIGHTS ONLY	M R O
SURFACE RIGHTS ONLY	S R O
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C
PATENTED FOR S R O	

NOTES

This Map Is Not To Be Used - FOR SURVEY PURPOSES -

400' Surface Rights Reservation along the shores of all lakes and rivers

For status of summer resort locations & islands please contact Ministry of Natural Resources

Original shoreline shown thus

FRI shoreline shown thus

Patents Map shoreline shown thus

Area shown thus reserved for proposed Provincial Park, withdrawn from staking sec 34 (d) of Mining Act File 160708

Mining claims staked in this Tp subject to Sec 118 of Mining Act

SAND & GRAVEL

- (1) Gravel File 154616
- (2) Gravel 21547
- (3) M.N.R. Gravel Pit 76 File 21538
- (4) Gravel File 40832
- (5) Gravel " "
- (6) Gravel " 73125
- (G) QUARRY PERMIT

- (6) MNR Gravel Pit No 138 File 152744
- (4) Gravel File 104960
- (4) Gravel File 40832

Areas withdrawn from staking under Section 35 of the Mining Act

	File	Date	Disposition
(43) W67/74	598V4	19 12 74	S R & M R
(R) W3/77	34261	5 1/77	S R & M R
(R2) W50/83	160708	22 8 83	S R & M R
BED OF LAKE AND RIVERS W OF PARK LIMIT			
(R4) W11/83	75118	30 9/83	S R & M R
(R) W67/74	598V4	19/12/74	MRO

KAWARTHA HIGHLANDS PROVINCIAL PARK

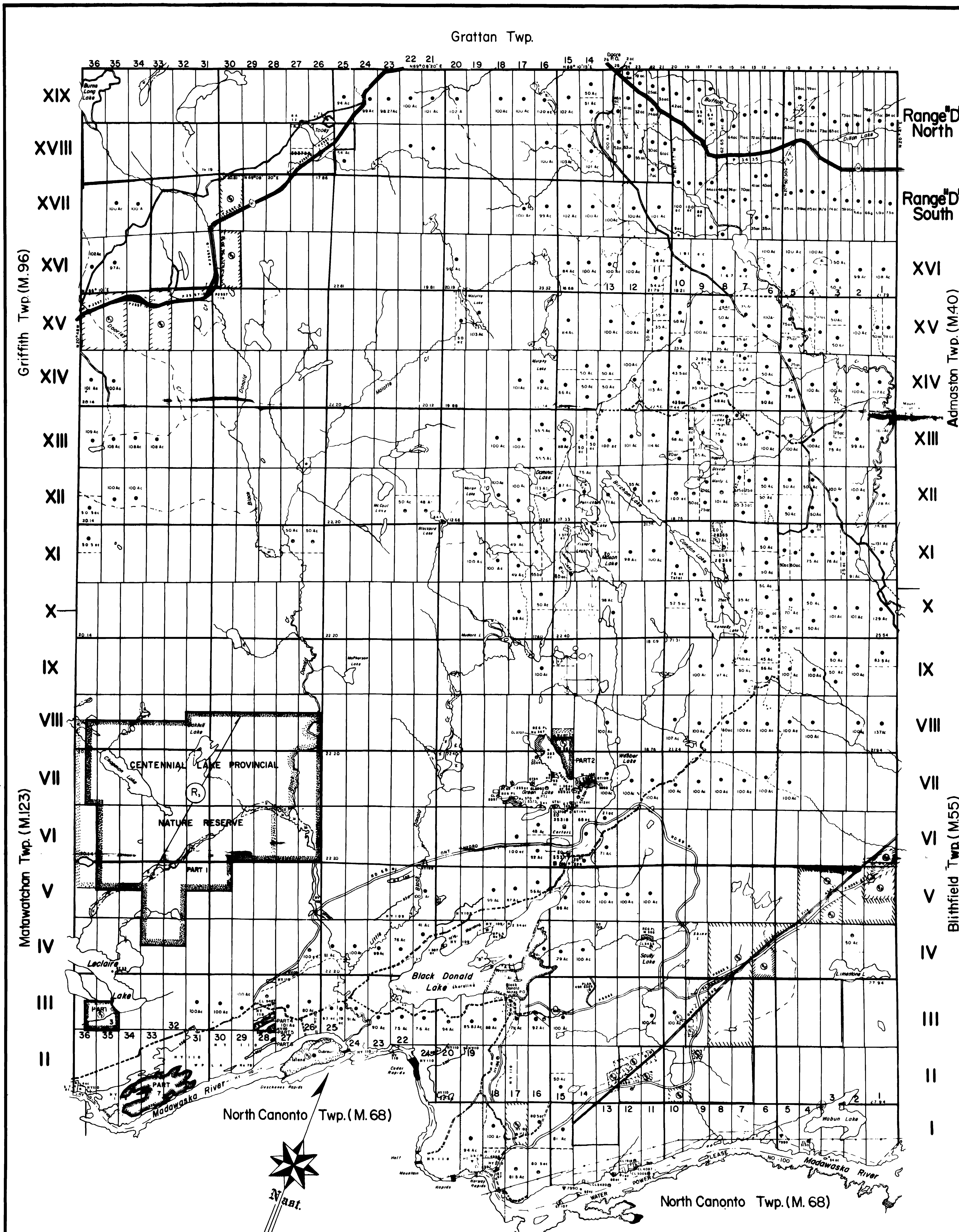
DATE OF ISSUE
JAN 31 1992
SOUTHERN ONTARIO MINING DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

PLAN NO - M-72

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

OP92-244



THE TOWNSHIP OF BROUGHAM

COUNTY OF RENFREW

SOUTHERN ONTARIO MINING DIVISION

SCALE: 1-INCH=40 CHAINS

DISPOSITION OF CROWN LANDS

PATENT, SURFACE AND MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LEASE, SURFACE AND MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ROADS
IMPROVED ROADS
KING'S HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
MINES
CANCELLED C
TRAILS

NOTES

This Map Is Not To Be Used FOR SURVEY PURPOSES.

LOT AND CONCESSION LINES SHOWN HEREON ARE PROJECTED FROM THE BEST INFORMATION AVAILABLE, BUT THEIR TRUE POSITION IS NOT GUARANTEED. FOR OFFICIAL SURVEY PURPOSES CONSULT THE ORIGINAL SURVEY PLANS AND FIELD NOTES

400' surface rights reservation along the shores of all lakes and rivers

Flooding rights reserved to Ontario Hydro under Licence of Occupation 7990 to 662 8' G S C contour elevation file 1278 v.2

HY 109 and HY 110 covered by Water Power Lease Agreement No. 79

SAND & GRAVEL

Gravel Pit	No	1539
" "	No	1540
" "	No.	1541 - MTC
" "	No	1578
Gravel	File	43
"	File	4147
"	File	30037
"	File	171726
M T C Gravel Reserve	File	146413
Gravel	File	139227
"	File	8990
M T C	Pit No	1365
Gravel	File	187790
Gravel	Pit	5D-48

AREAS WITHDRAWN FROM STAKING

SR - SURFACE RIGHTS MR - MINING RIGHTS

DESCRIPTION	ORDER No	DATE	DISPOSITION	FILE
(R1) SEC 36/80	W 16/82	3/11/82	SR & MR	
(R2) PARK RESERVE	W 58/83	12/9/83	SR & MR	188534
(R3) PARK RESERVE		19/11/69	SR & MR	171521
(R4) SEC 36/80	W 1/84	23/1/84	MR	1432

DATE OF ISSUE
MAR - 6 1992
SOUTHERN ONTARIO MINING DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

PLAN NO.-M.58

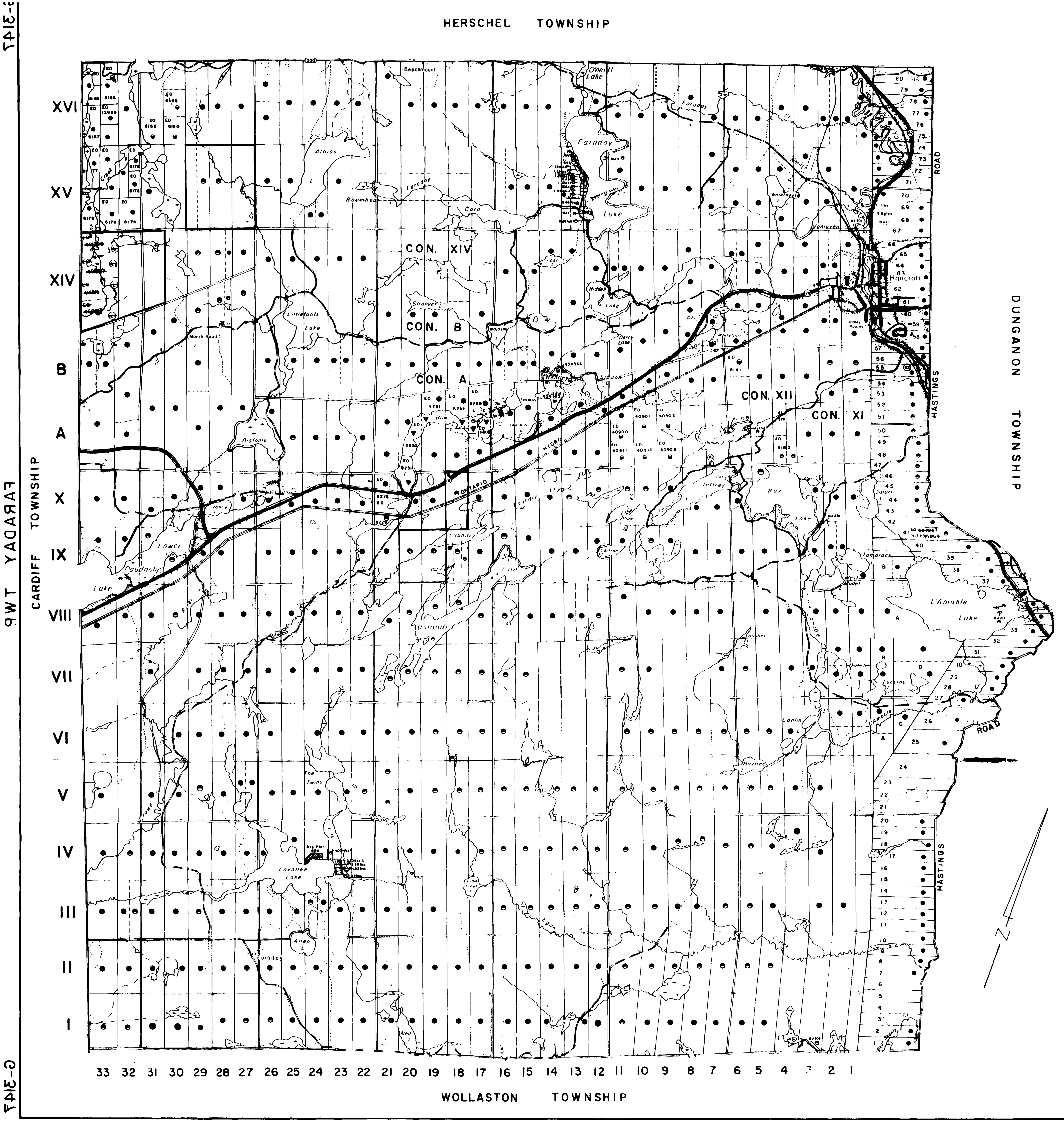
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

RES. GEO. TWEED

M.N.R. DIST. PEMBROKE

31F07SW0001 OP92-244 BNOWDON

260



R E F E R E N C E S

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R1)	M N R Reserve	June 15, 1978	For Public Access	188503
(R2)	W-71/87 RR	JULY 17, 1987		188549

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

NOTES

Areas withdrawn from staking under Section 43 of the Mining Act (R S O 1970)

LOTS 23, 24, 25 & 26 ON THE HASTINGS ROAD ARE ONLY APPROXIMATELY SHOWN, NO AUTHENTIC INFORMATION ON RECORD

400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.

DATE OF ISSUE
[illegible] 1992
SOUTHERN ONTARIO MINING DIVISION

LEGEND

HIGHWAY AND ROUTE No
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC
LOTS, MINING CLAIMS, PARCELS, ETC
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊕
SAND & GRAVEL	◐

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R S O 1970, CHAP 380, SEC 63, SUBSEC 1

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

0.77 244

TOWNSHIP
FARADAY

M.N.R. ADMINISTRATIVE DISTRICT
BANCROFT

MINING DIVISION
SOUTHERN ONTARIO

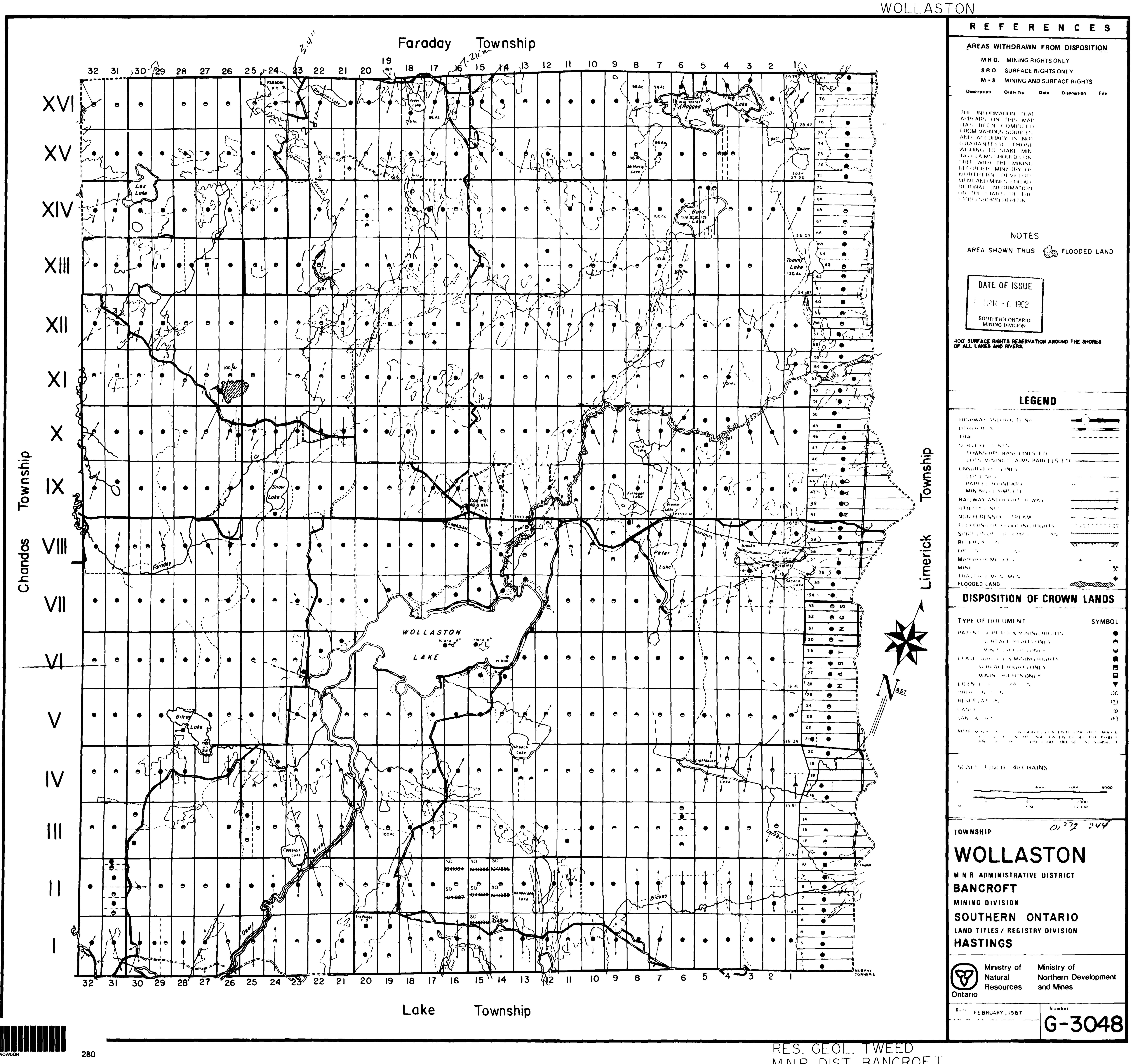
LAND TITLES / REGISTRY DIVISION
HASTINGS

Ministry of Natural Resources — Ministry of Northern Development and Mines — Ontario

Date: MARCH, 1987 — Number: G-3147

RES. GEO. TWEED (BANCROFT) M.N.R. DIST. BANCROFT.

270



G-3048

31F07SW0001 OP92-244 SNOWDON

280

Dudley Twp.

Glamorgan Twp.

Cardiff Twp.

Anstruther Twp.

LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC
  - LOTS, MINING CLAIMS, PARCELS ETC
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◒
" MINING RIGHTS ONLY	◓
LEASE SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◨
" MINING RIGHTS ONLY	◧
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	Ⓒ
SAND & GRAVE L	Ⓢ
LAND ACQUISITION	(A)

SCALE 1 INCH - 40 CHAINS

METRIC: 1000 0 1000 2000 (2 KM); 4000 6000 8000 (1 KM)

NOTES

This Map Is Not To Be Used —FOR SURVEY PURPOSES—

Original shoreline shown thus

P.R.I. shoreline shown thus

Patents Map shoreline shown thus

For status of summer resort locations shown thus

Please contact Ministry of Natural Resources.

GRAVEL AND SAND

(9) MNR 12/1986 File 30003

AREAS WITHDRAWN FROM DISPOSITION

MRO MINING RIGHTS ONLY

SRO SURFACE RIGHTS ONLY

M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(9) SEC 36/80	W 4 84	21/1/84	M R O	

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

300 SURFACE RIGHTS RESERVATION AROUND ALL THE LAKES AND RIVERS

DATE OF ISSUE
DEC - 6 1952
SOUTHERN ONTARIO MINING DIVISION

TOWNSHIP

MONMOUTH

M.N.R ADMINISTRATIVE DISTRICT
MINDEN

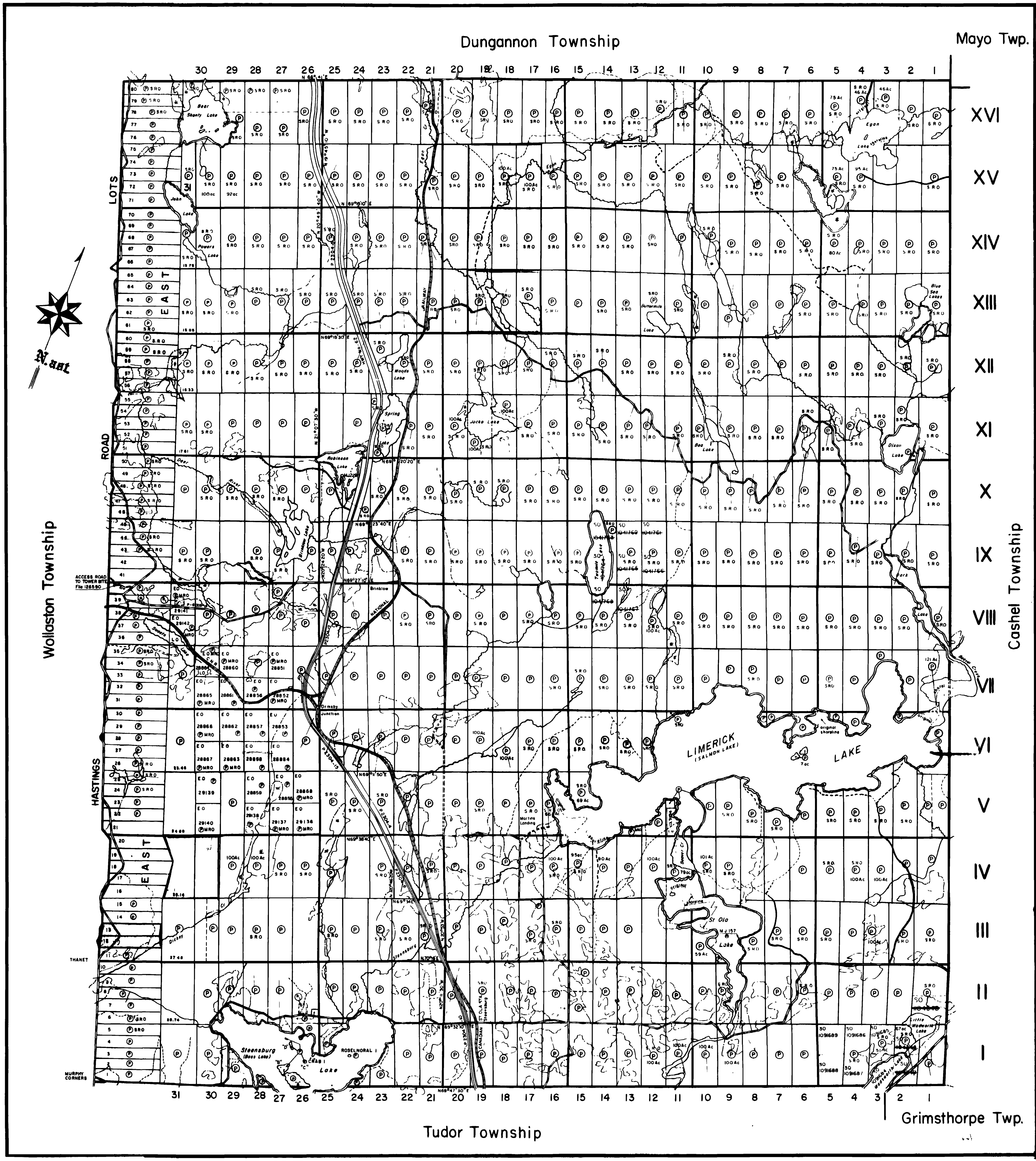
MINING DIVISION
SOUTHERN ONTARIO

LAND TITLES / REGISTRY DIVISION
HALIBURTON

Ontario Ministry of Natural Resources | Ministry of Northern Development and Mines

Date FEBRUARY, 1987

Number G-1298



REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No	Date	Disposition	File
SEC 36/80		14/2/85	SRO	

DATE OF ISSUE
1992
SOUTHERN ONTARIO MINING DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.

LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	Ⓟ
SURFACE RIGHTS ONLY	SRO Ⓟ
MINING RIGHTS ONLY	MRO Ⓟ
LEASE SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	LO
ORDER IN COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 1913 VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 2000 (1 KM) (2 KM)

AREA
OP92 244

LIMERICK

M.N.R. ADMINISTRATIVE DISTRICT
BANCROFT
MINING DIVISION
SOUTHERN ONTARIO
LAND TITLES / REGISTRY DIVISION
HASTINGS

Ministry of Natural Resources
Ministry of Northern Development and Mines
Ontario

Date: MARCH, 1987
Number: G-3145

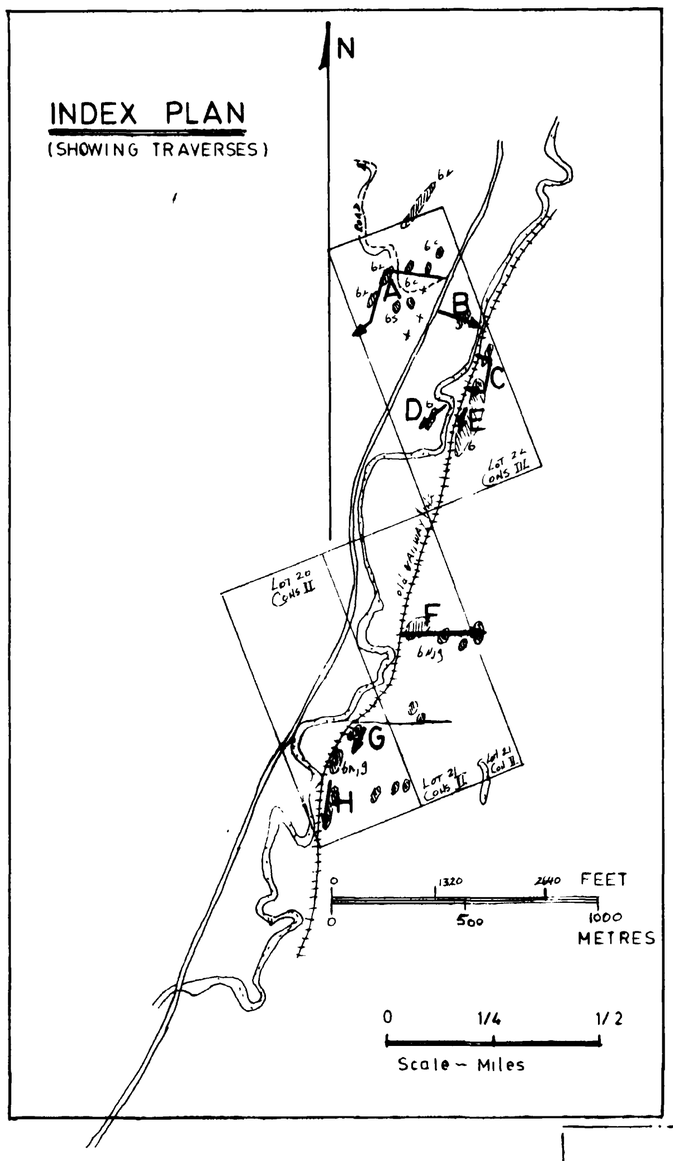
31F07SW0001 OP92-244 SNOWDON

300

RES. GEO. TWEED [BANCROFT]

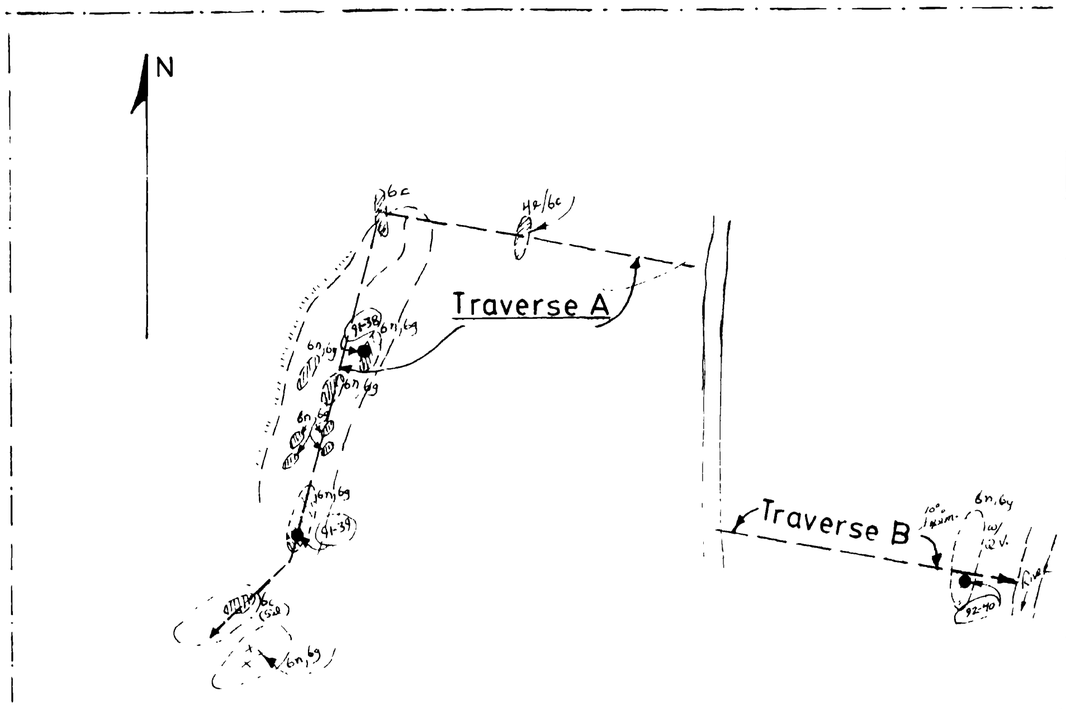
M.N.R. DIST. BANCROFT

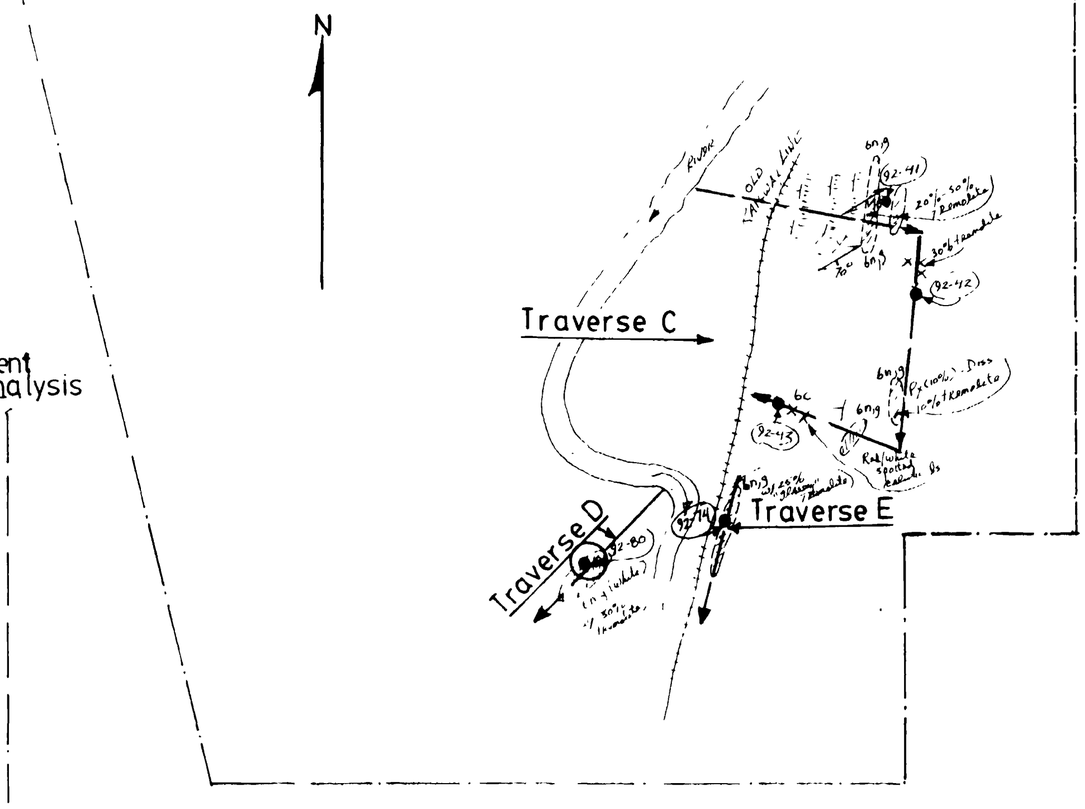
INDEX PLAN
(SHOWING TRAVERSES)

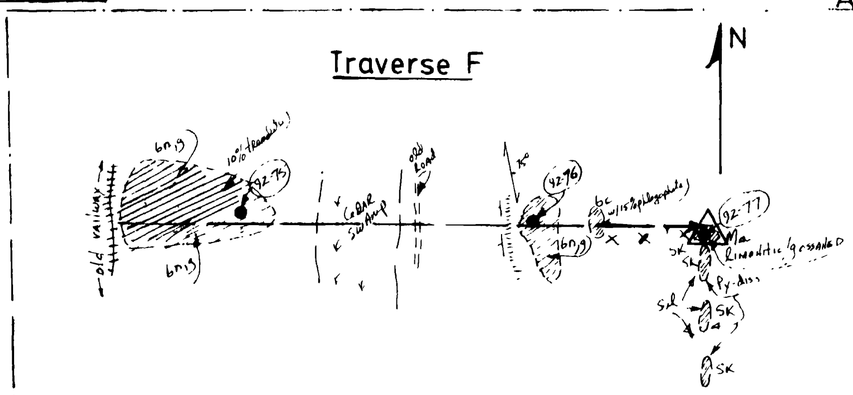


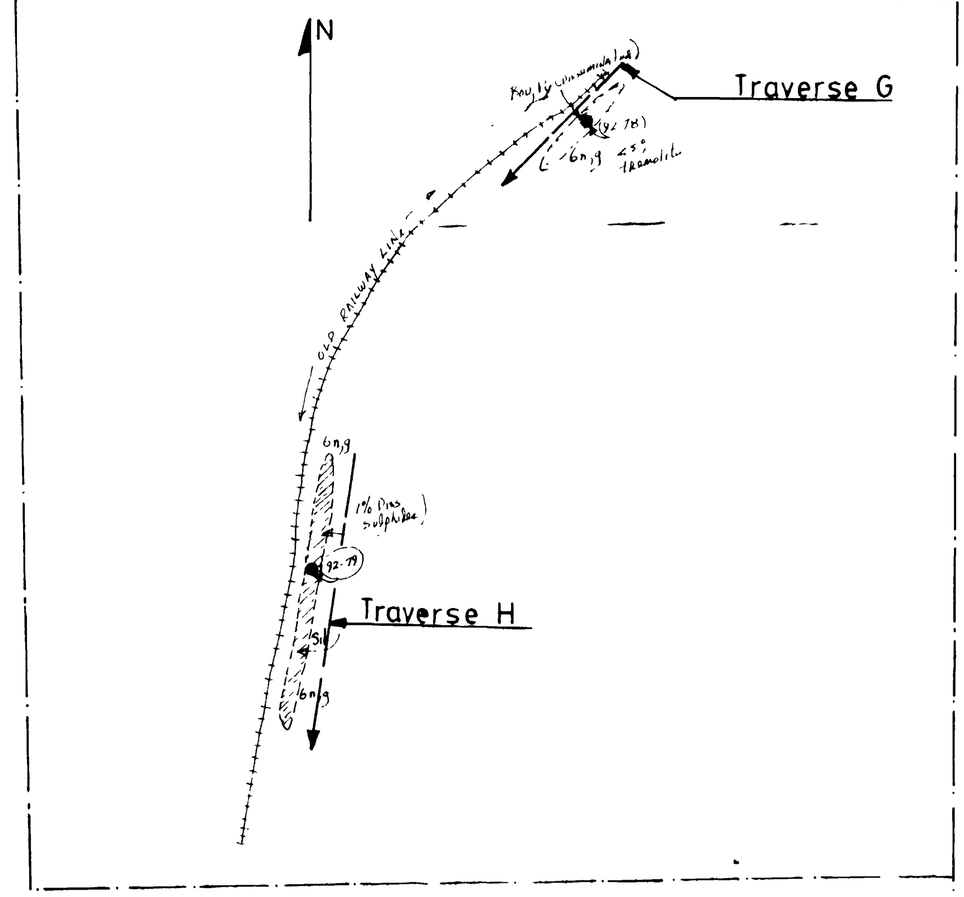
LEGEND

- Sk — Skarn (w/or w-out sulphides)
- 6 — Dolomitic Marble
- 6c — Calcitic Marble
- 6ng — Dolomitic / Calcitic Marble
- 4e — Meta-Sediments
- Q.V. — Quartz Vein(s)
- Sil. — Silicification
- trem. — Tremolite
- Py. — Pyrite
- Cp — Chalcopyrite
- Ma. — Magnetite
- Bou — Bournite
- G → — Traverse Designation
- 92-3etc — Sample Selected
- x — Small Outcrop or Boulder(s)
- Topography (direction & dip)
- Escarpment
- Outcrops Examined
- Strike & Dip (Lineation) (OUTCROPS)
- ⊙ Thinsection Analysis
- △ Multielement Analysis







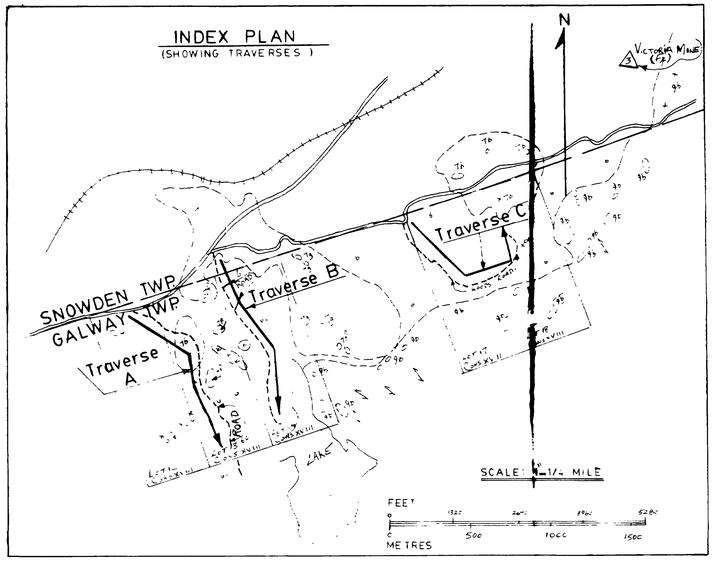


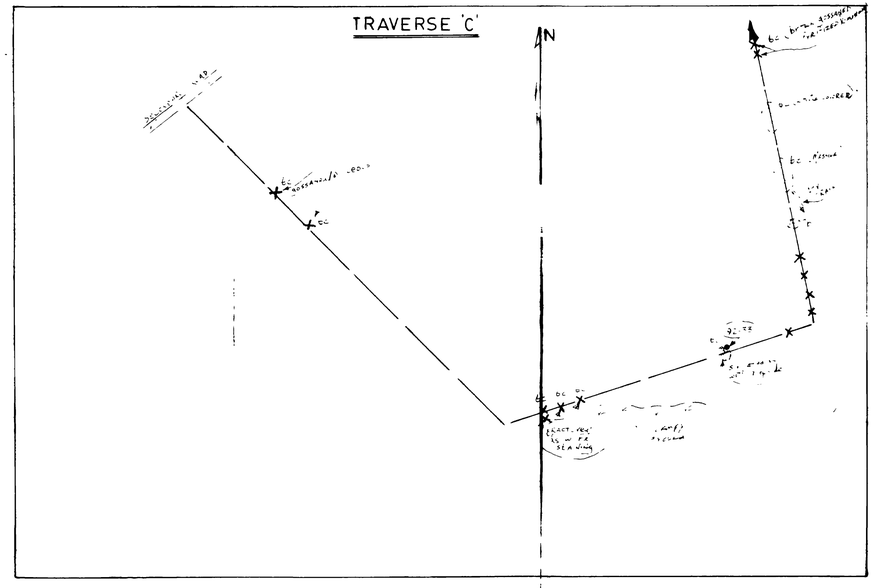
SCALE

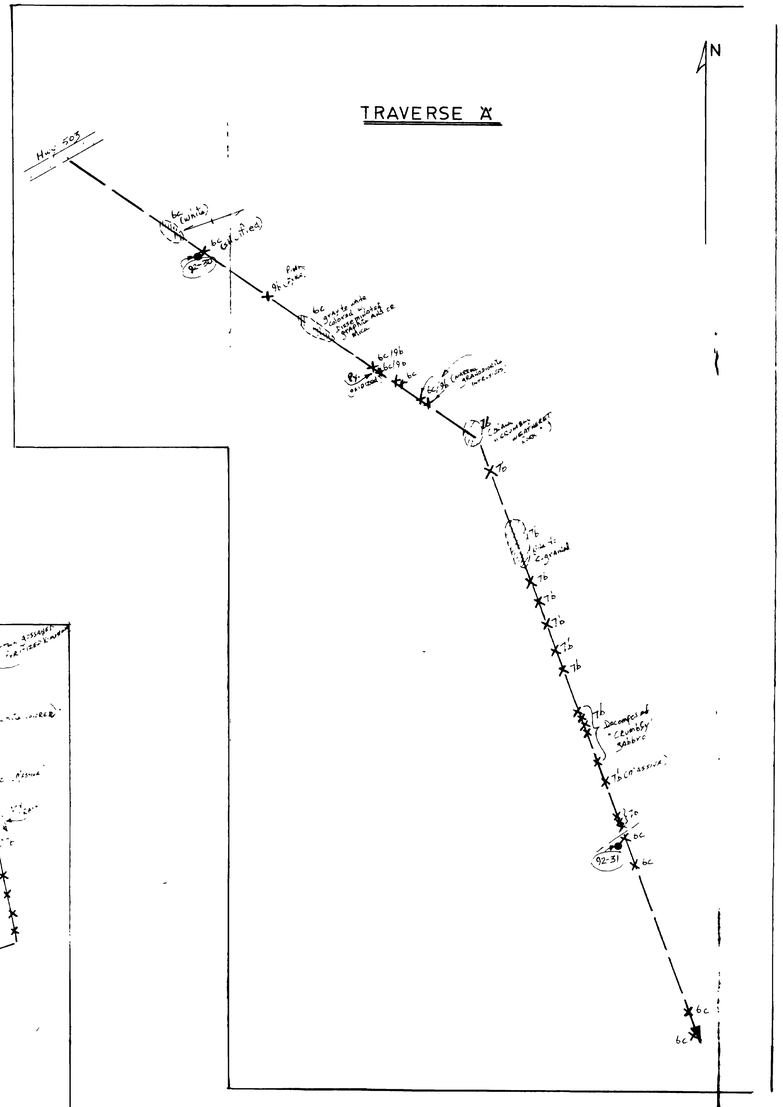
FEET 0 200 400 600 800 1000
METRES 0 100 200 300

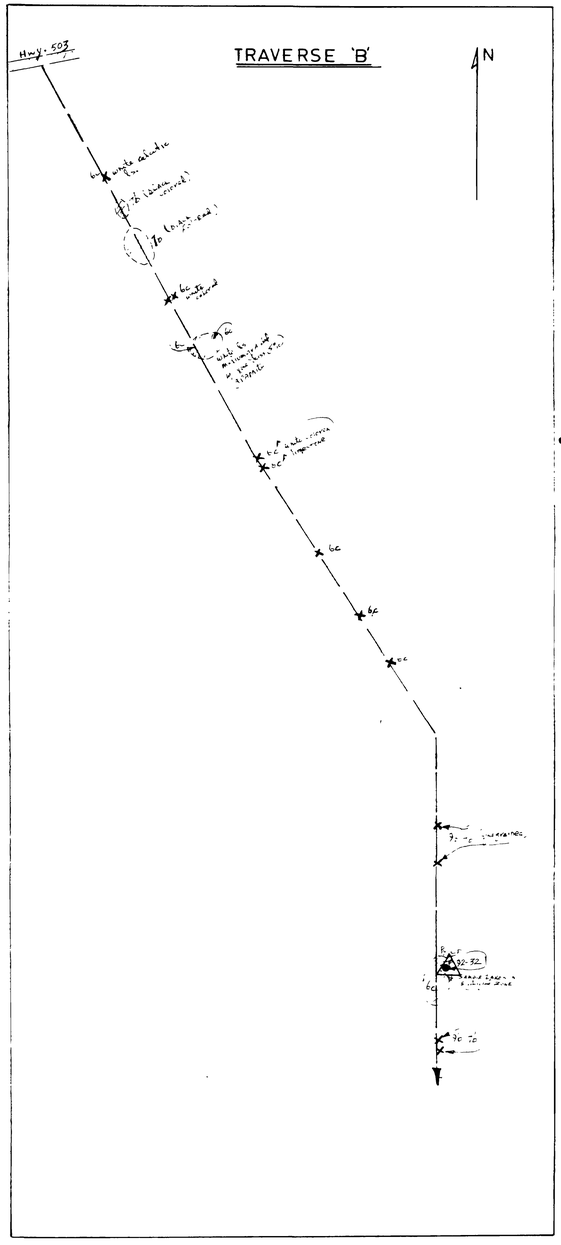
GEOLOGICAL PLAN
(Snowden Township-1992 O.P.A.P. Project 1)

Drawn: R.Stewart Oct.1992 | Scale: 1"=200 | Dwg S92-2









SCALE

FEET
0 200 400 600 800 1000

METRES
0 100 200 300

LEGEND

9b Granodiorite

7b,f Gabbro or Diorite

6c Calcitic Limestone

Outcrop Examined

Strike & Dip(Lineation)

x Small Outcrop

Py/Cp Pyrite/Chalcopyrite

Traverse Line

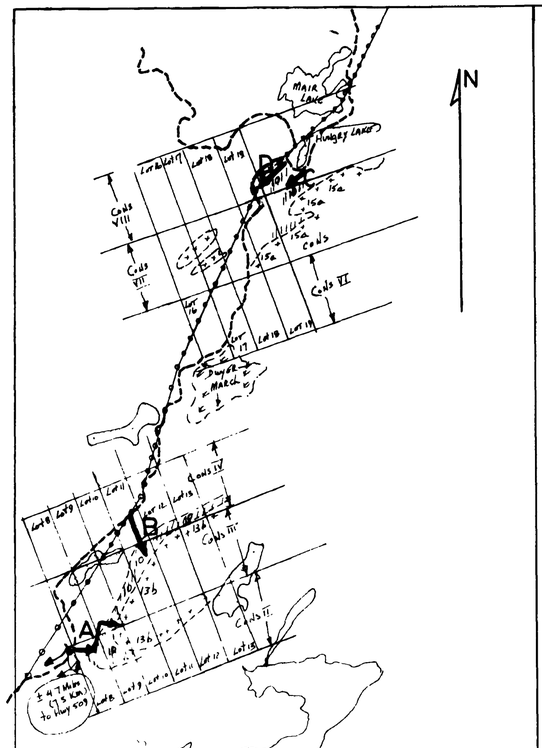
•92-30 Sample Selected

△ Multielement Assay

GEOLOGICAL PLAN

Galway Township
(1992 OPAP Project #2)

Drawn: R. Steward | Scale 1"=200' | DWG. S 92-3

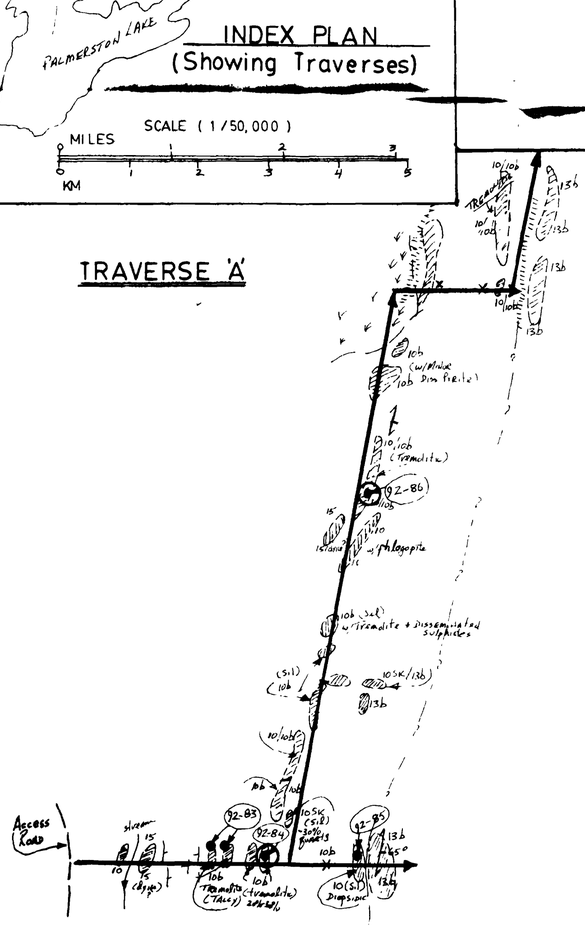


INDEX PLAN (Showing Traverses)

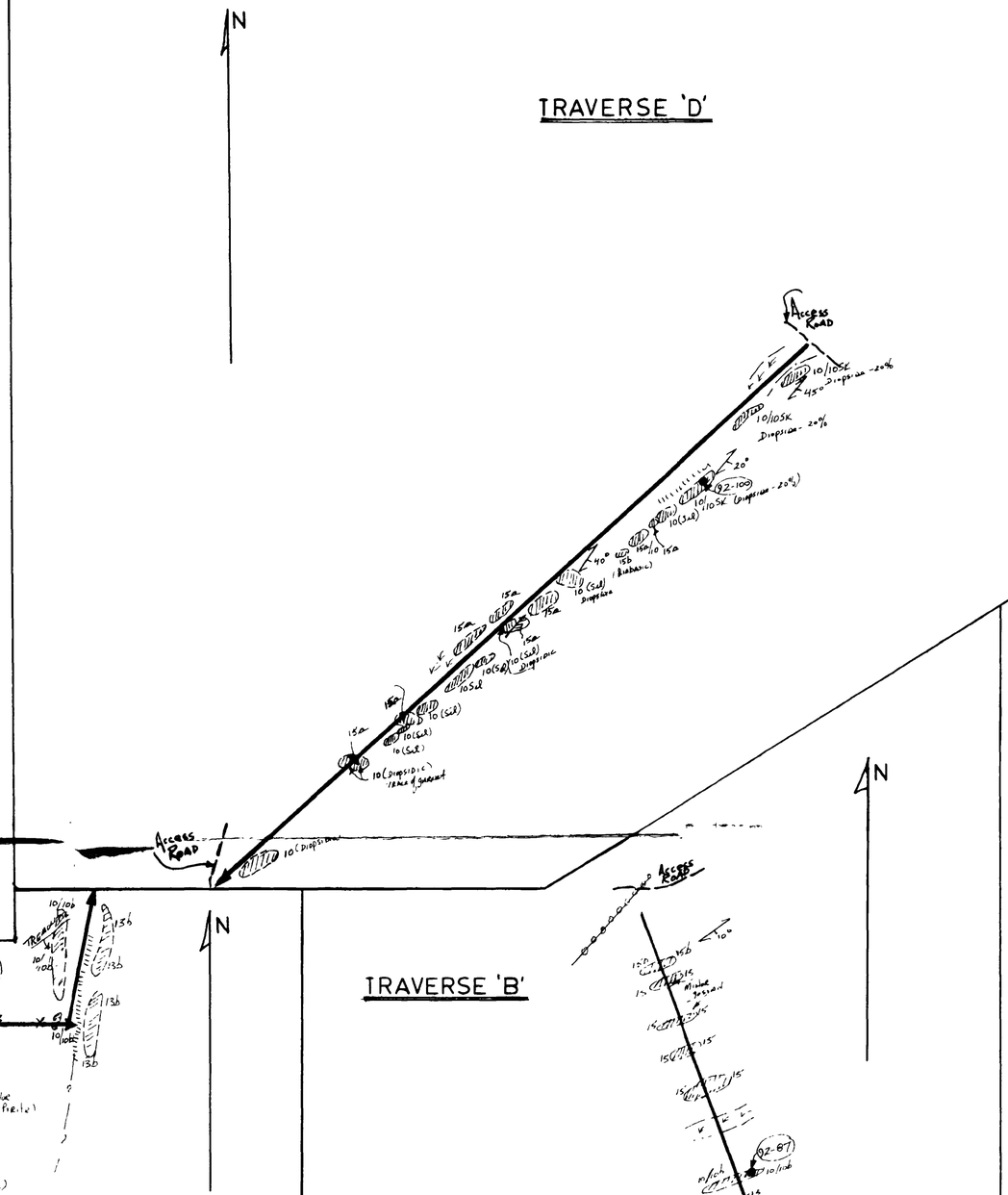
SCALE (1/50,000)

MILES 0 1 2 3

KM 0 1 2 3 4 5

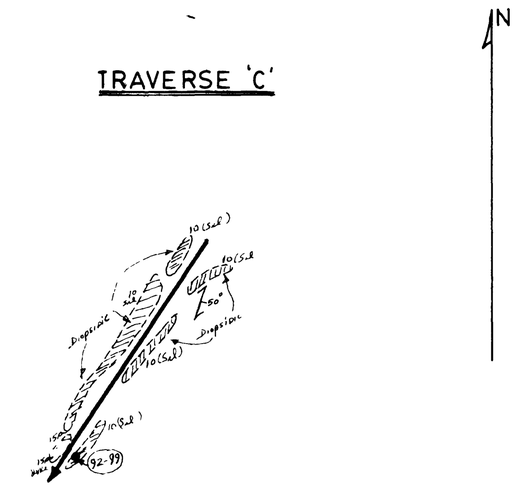


TRAVERSE 'A'



TRAVERSE 'D'

TRAVERSE 'B'



TRAVERSE 'C'

LEGEND

15	GRANITE / GRANITE GNEISS
15a	GRANITE-SYENITE PEGMATITE
15b	HORNBLENDE / QUARTZ GNEISS
13b	GABBRO
10	CALCITIC MARBLE (w/ or w/out diopside & tremolite)
10b	DOLOMITIC MARBLE (tremolitic)
10Sk	SILICATED SKARN (w/ or w/out diopside & tremolite)

- TRAVERSE LOCATION
- OUTCROPS EXAMINED
- • 92-3 SAMPLES COLLECTED
- x SMALL OUTCROP or BOULDER
- ESCARPMENT
- LINEATION (Direction & Dip)
- Sil Silicated
- △ Chemical Analysis
- ⊙ Thin Section Analysis

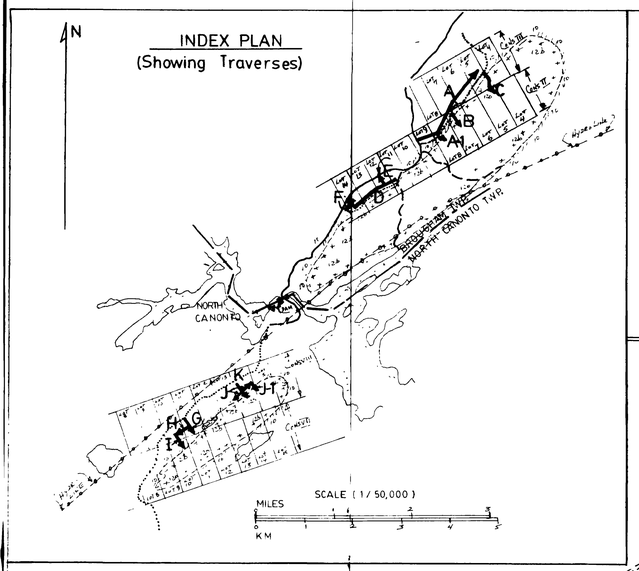
SCALE (All Traverses)

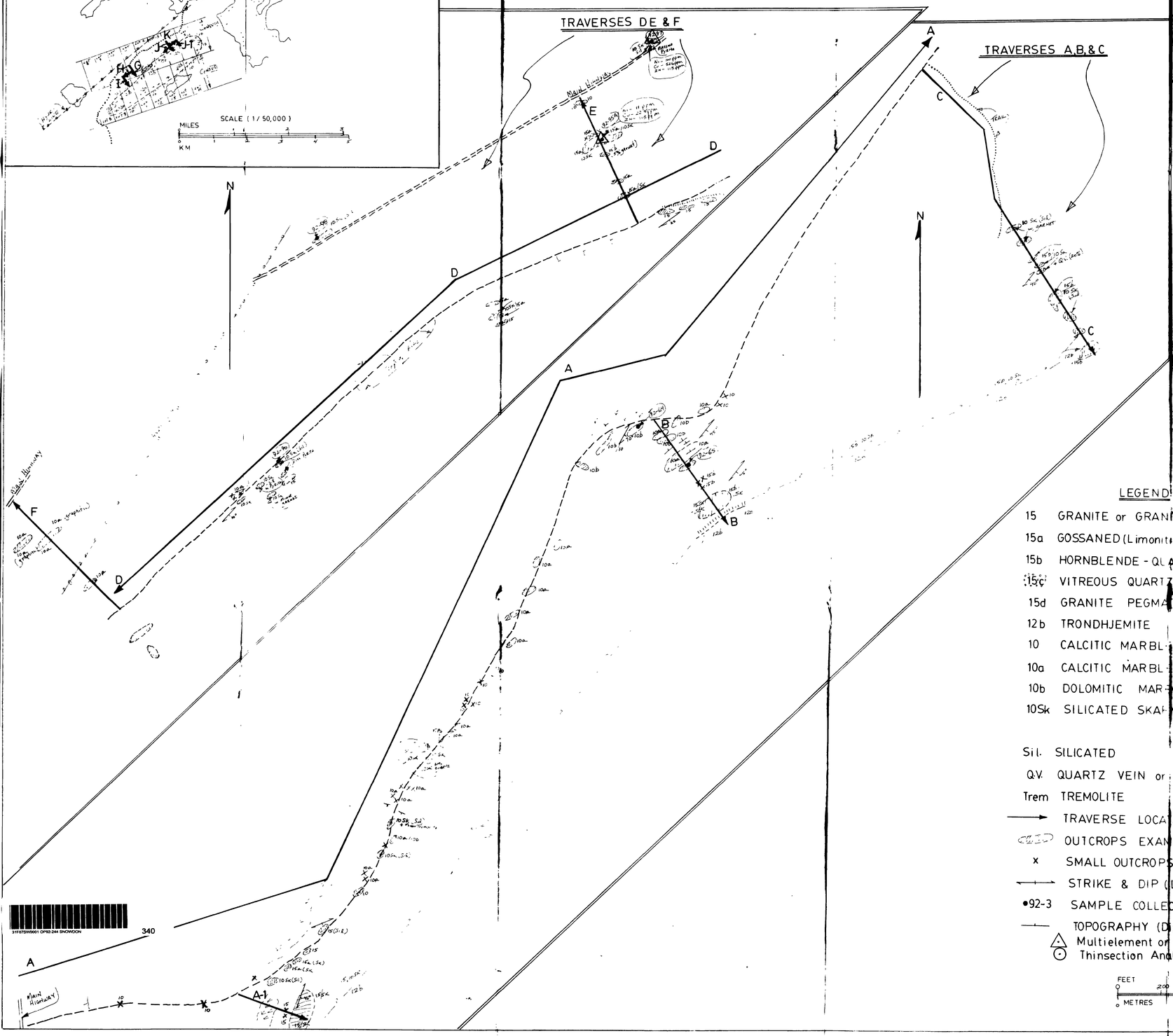
FEET 0 200 400 600 800 1000

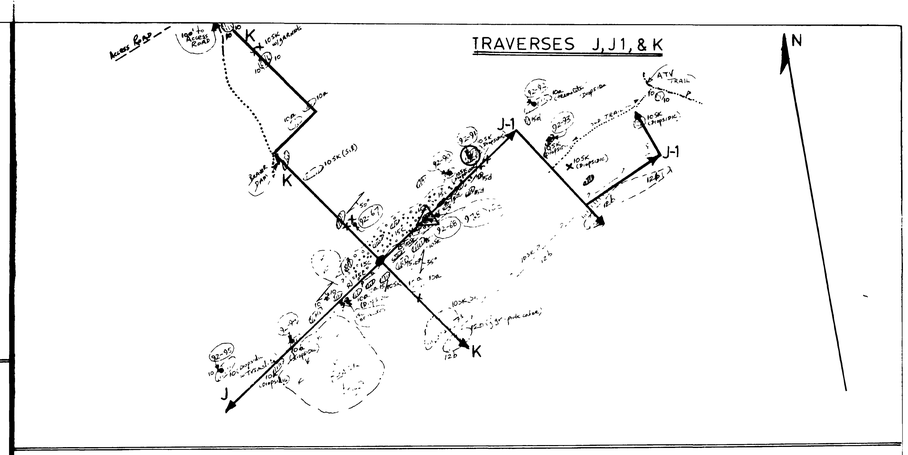
METRES 0 100 200 300

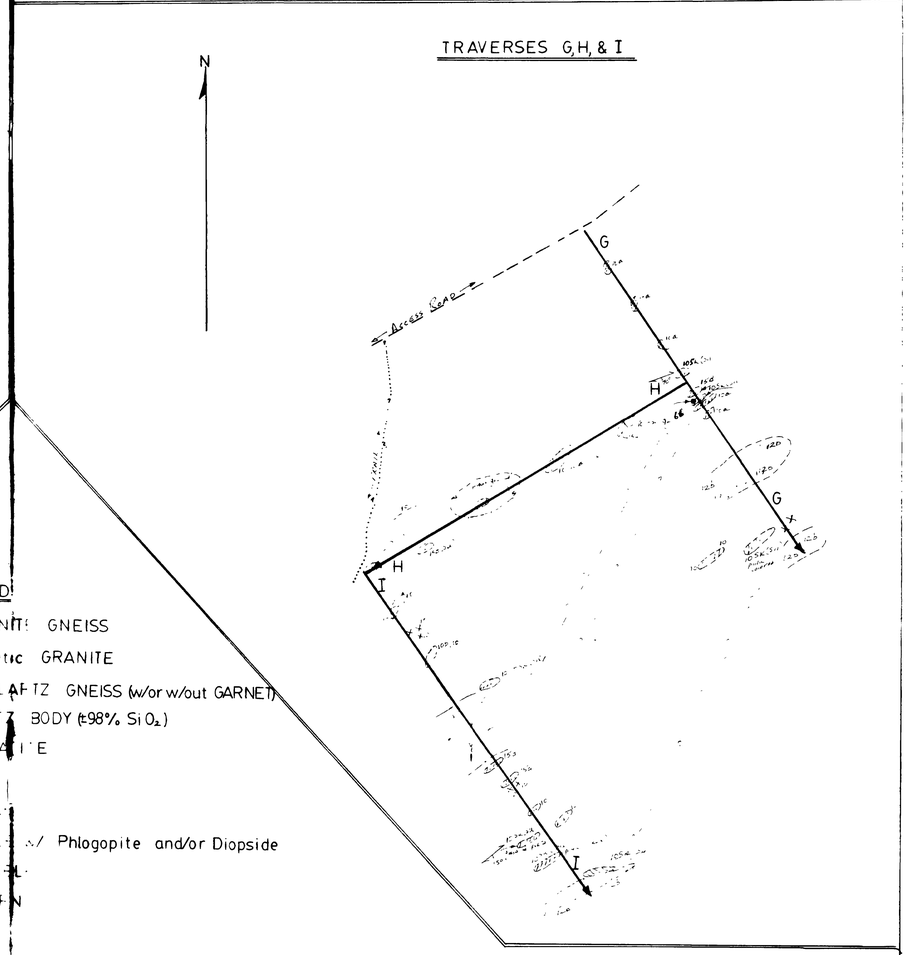
GEOLOGICAL PLAN SOUTH CANONTO TOWNSHIP (1992 OPAP Project* 16)

DRAWN: R. Stewart 02/92 | SCALE: 1"=200 | DWG. S 92-15









LEGEND

15 GRANITE or GRANITE GNEISS
15a GOSSANED (Limonitic GRANITE
15b HORNBLENDE - QUARTZ GNEISS (w/or w/out GARNET)
15c VITREOUS QUARTZ BODY (±98% SiO_2)
15d GRANITE PEGMATITE
12b TRONDHJEMITE
10 CALCITIC MARBLE
10a CALCITIC MARBLE w/ Phlogopite and/or Diopside
10b DOLOMITIC MARBLE
10Sk SILICATED SKARN

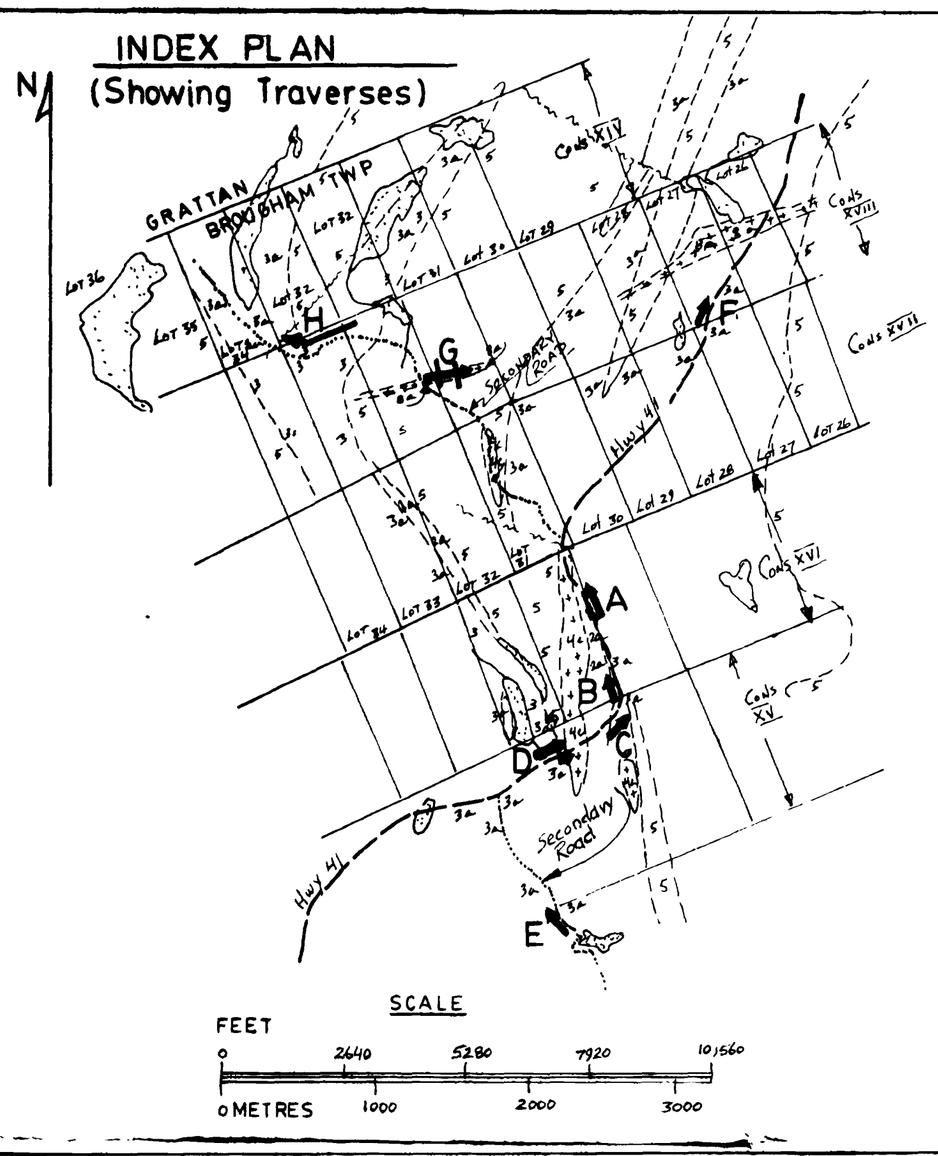
Sil. SILICATED
Q.V. QUARTZ VEIN or INCLUSION
Trem TREMOLITE
→ TRAVERSE LOCATION
OUTCROPS EXAMINED
x SMALL OUTCROPS or BOULDERS
STRIKE & DIP (Lineation)
•92-3 SAMPLE COLLECTED
TOPOGRAPHY (Dip & Direction)
Multielement or Chemical Analysis
Thinsection Analysis

SCALE (All Traverses)
FEET 0 200 400 600 800 1000
METRES 0 100 200 300

GEOLOGICAL PLAN
BROUGHAM & NORTH CANONTO TWP.
(1992 OPAP PROJECT # 15)

DRAWN - R. Stewart | SCALE: 1"=200 | DWG S 92-14

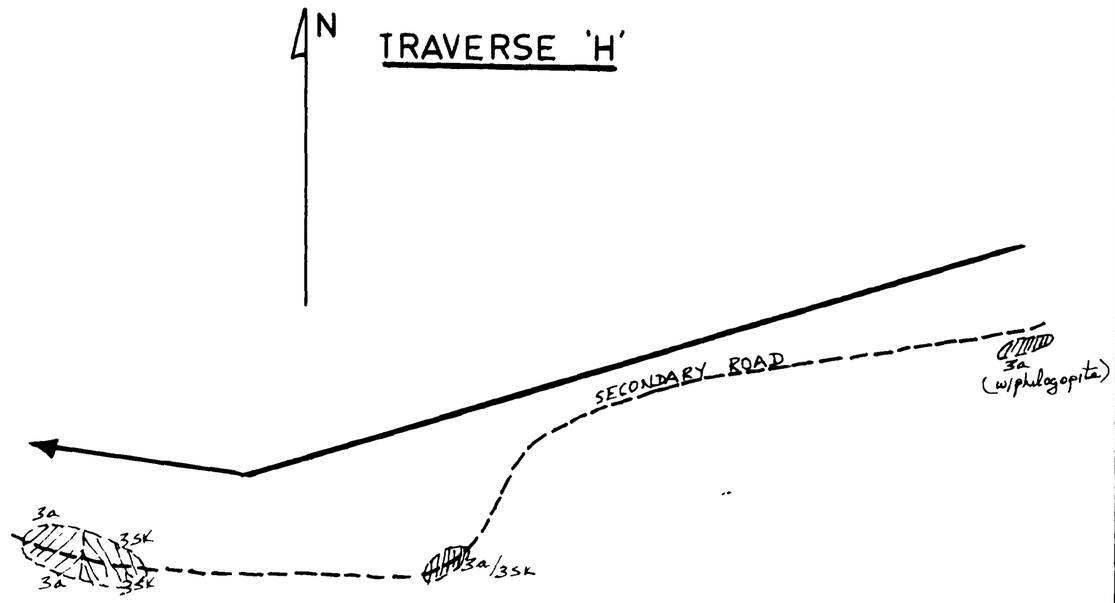
INDEX PLAN
(Showing Traverses)



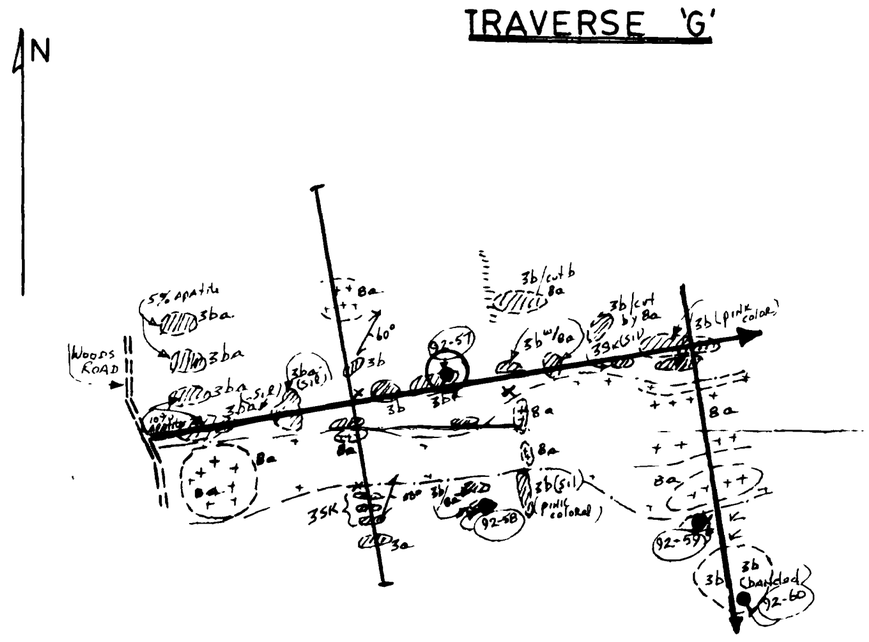
SCALE

FEET	0	2640	5280	7920	10,560
METRES	0	1000	2000	3000	

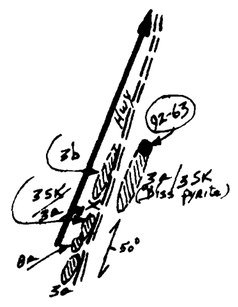
TRAVERSE 'H'



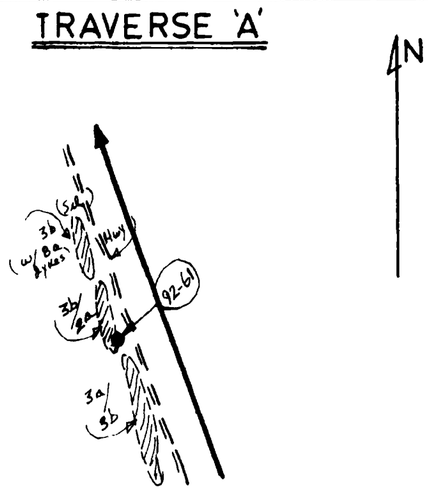
TRAVERSE 'G'



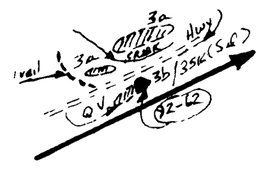
TRAVERSE 'F'



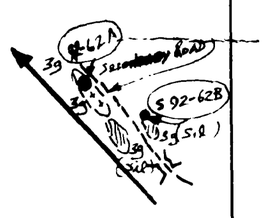
TRAVERSE 'A'



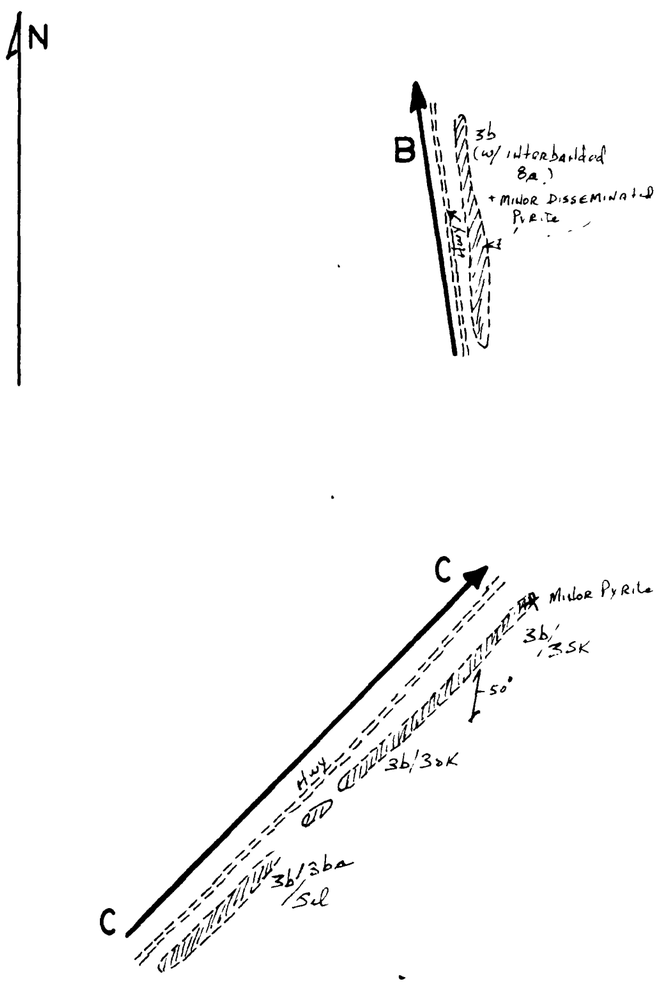
TRAVERSE 'D'



TRAVERSE 'E'



TRAVERSE 'B' & 'C'



LEGEND

8a	GRANITIC PEGMATITE
5	ALKALIC INTRUSIVES (Syenite)
4c	MAFIC INTRUSIVES
3a	CALCITIC MARBLE
3b	CALC/SILICATE GNEISS
3ba	CALC/SILICATE GNEISS w/Apatite
3g	DIOPSIDIC MARBLE
3Sk	SILICIFIED MARBLE (Locally Gossaned)
2a	AMPHIBOLE GNEISS
Sil.	SILICATED
Gar.	GARNET
Q.V.	QUARTZ VEINS

→ TRAVERSE LINE

OUTCROP EXAMINED

LINEATION (Strike & Dip)

⊙ Thin Section Analysis

SCALE (All Traverses)

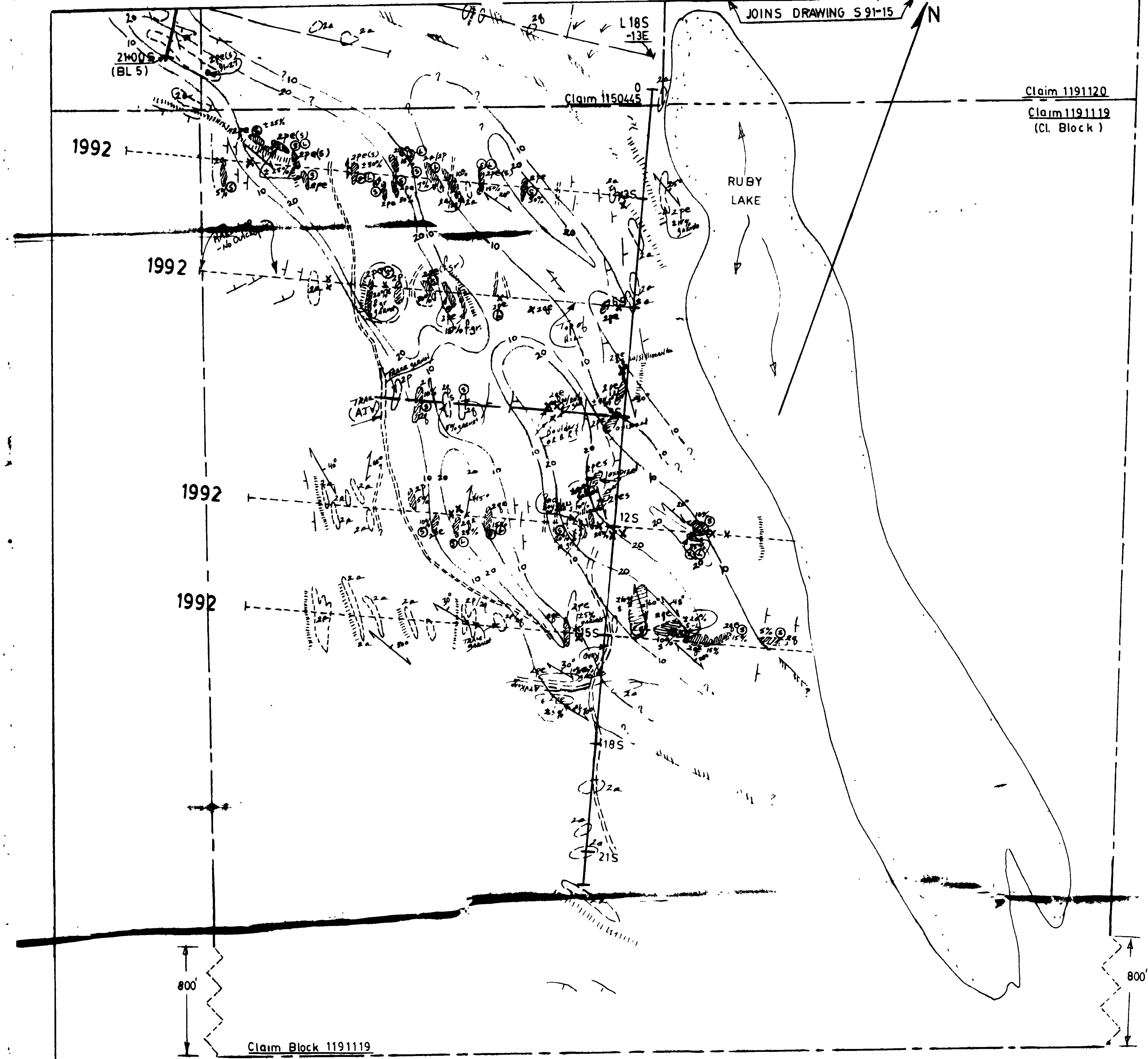
FEET	0	200	400	600	800	1000
METRES	0		100	200		300

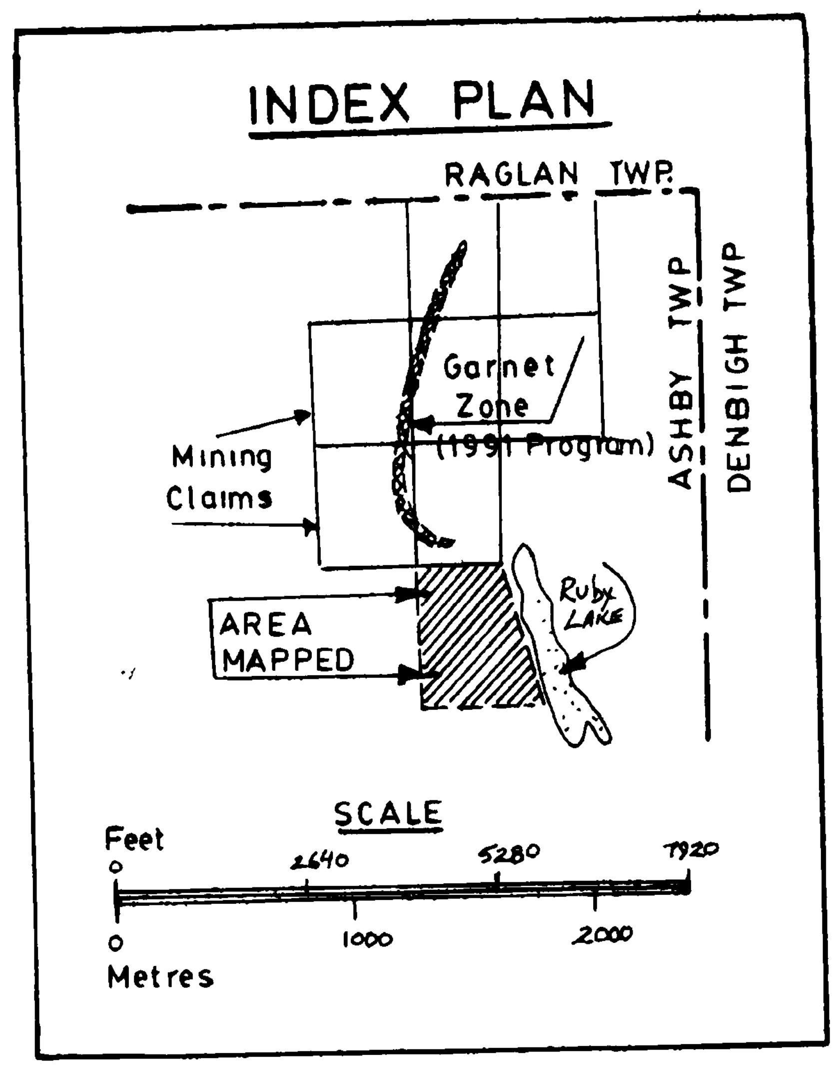
GEOLOGICAL PLAN

BROUGHAM TOWNSHIP
(N.W. Sector)
(1992 OPAP Project # 14)

DRAWN: R. Stewart	Scale: 1"=200'	DWG: S 92-13

Ralph Stewart





LEGEND

8a	PINK LEUCOCRATIC GRANITE or BIOTITE GRANITE GNEISS
2a	QUARTZ MICA GNEISS (BIOTITE, QUARTZ, MUSCOVITE PLAGIOCLASE)
2p\2q	2p GARNET GNEISS/PARAGNEISS (Trace – 10% Garnet) 2q QUARTZITIC GNEISS w/ Trace – 10% Garnet
2pe/2qe	SIMILIAR TO 2p/2q (Above) but with 10%–30% Garnet
2pm	GARNET / MUSCOVITE GNEISS w/ 0–10% Garnets
2pem	SIMILAR TO 2pm Above but w/ 10%-30% Garnet
	GNEISSOSITY (Direction & Dip)
(S)	Sillimanite
	STRIKE & DIP OF TOPOGRAPHY
	INTERPRETED GARNET ENRICHMENT ZONES

Ⓢ Ⓛ	S – 1/16" to 3/16" size garnets L – 3/16" to 1/2" " "
X	Boulder or Small Outcrop
	Drag Folding
	Escarpment Face
1992 ------	1992 Mapping
10 20 30 20 10	Contoured, Visual % Garnet

SCALE

FEET 0 200 400 600 800 1000

METRES 0 100 200 300

GEOLOGICAL PLAN
RUBY GARNET PROPERTY

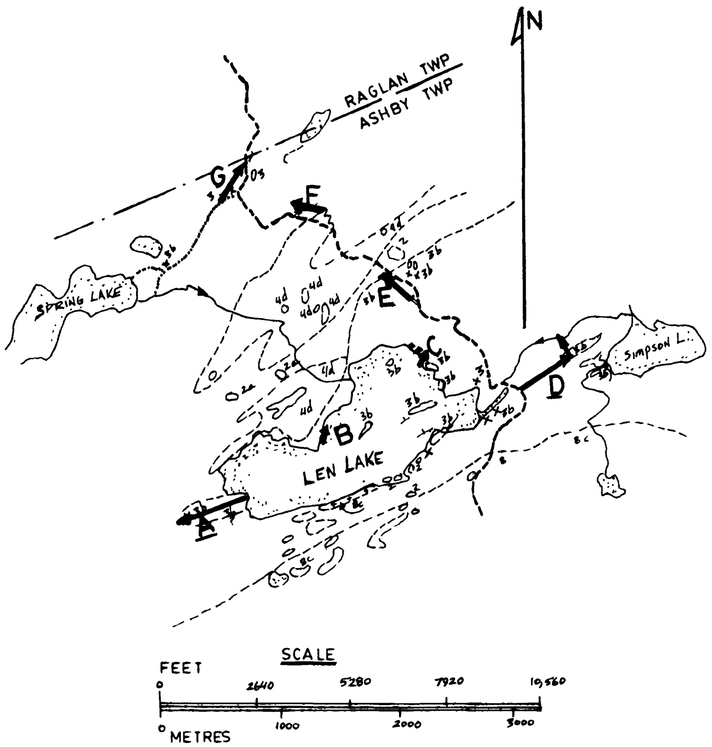
(ASHBY TWP., ONTARIO)

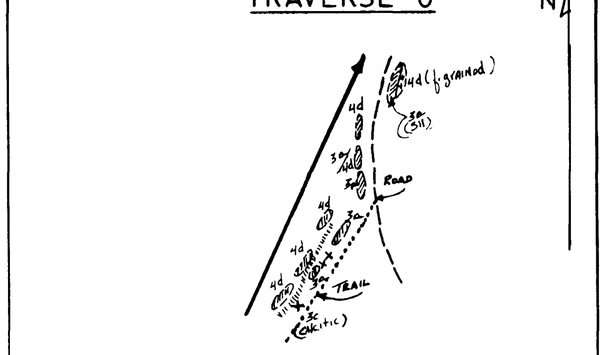
— SOUTH SHEET —

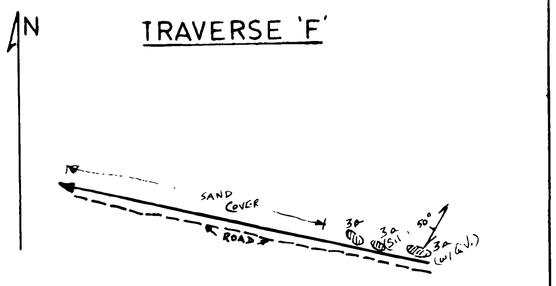
1992 OPAP Project 13

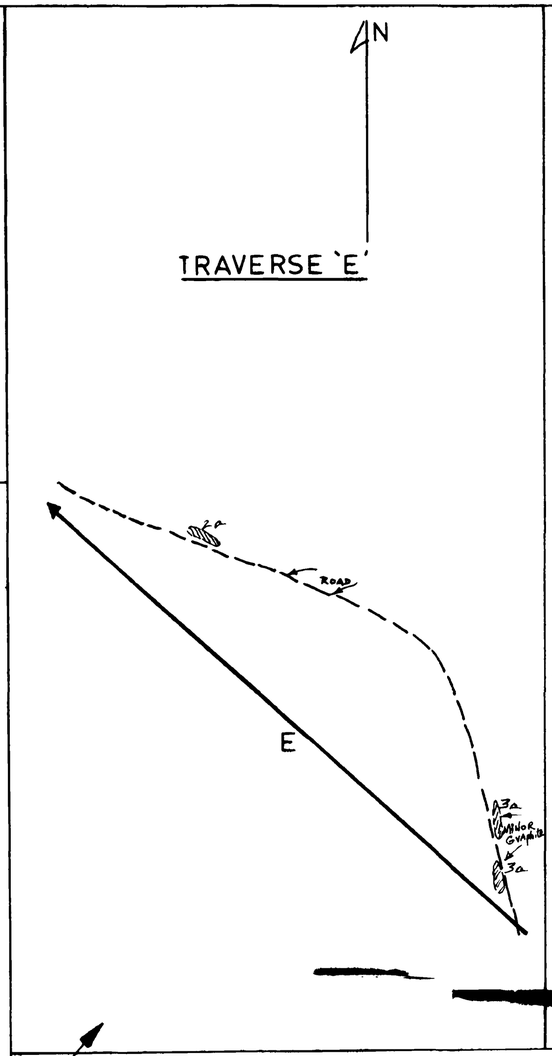
Ralph V Stewart

Drawn By	R V Stewart Oct. 1992	SCALE: 1" = 200	Dwg: S 92-1



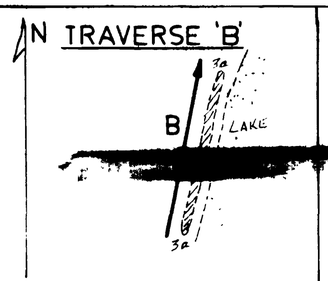


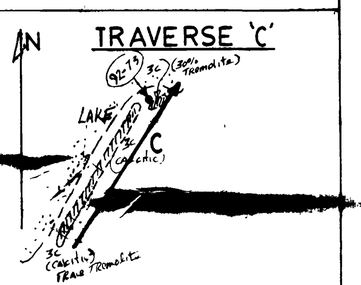


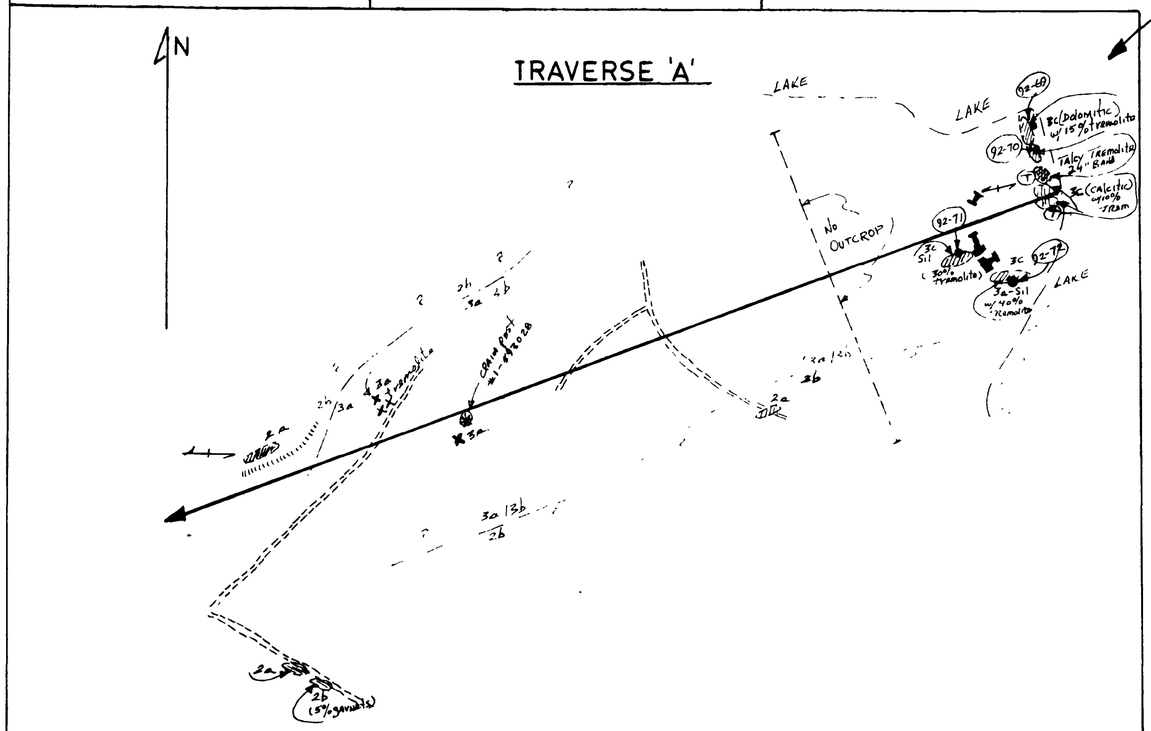


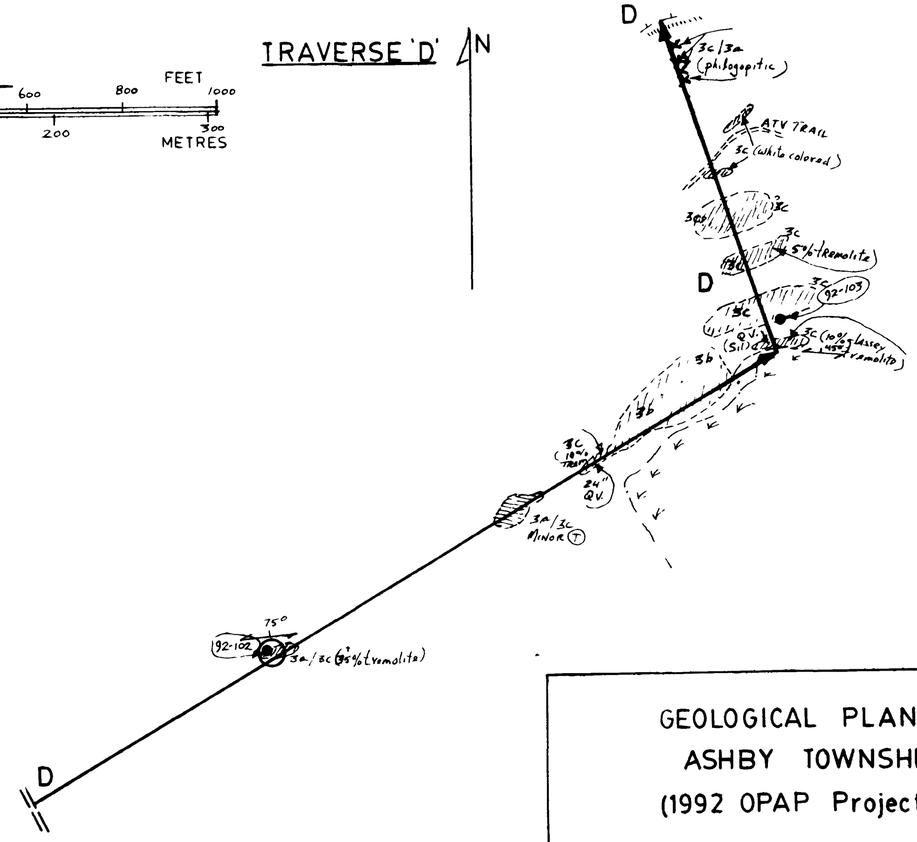
LEGEND

8	GRANITE
4d	GABBRO / Meta-Gabbro
3a	CALCITIC MARBLE
3b	DOLOMITIC MARBLE
3c	TREMOLITIC MARBLE (Calcitic/ Dolomitic)
2a	HORNBLENDE-QUARTZ GNEISS
2b	HORNBLENDE-GARNET GNEISS
T	TALCY
Sil.	SILICIFIED
Q.V.	QUARTZ VEIN
⟶	TRAVERSE LINE
	OUTCROP EXAMINED
	LINEATION (Strike & Dip)
	ESCARPMENT
⊙	Thinsection Analysis







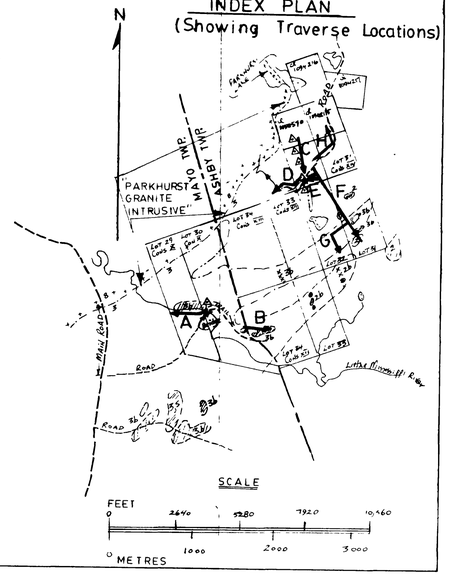


SCALE
FEET
0
200
400
600
800
1000
METRES
0
100
200
300

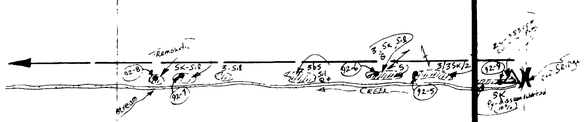
GEOLOGICAL PLAN
ASHBY TOWNSHIP
(1992 OPAP Project #12)

DRAWN: R Stewart	SCALE: 1"=200	DWG. S 92-12

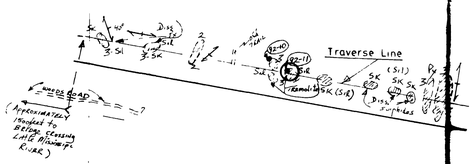
INDEX PLAN
(Showing Traverse Locations)

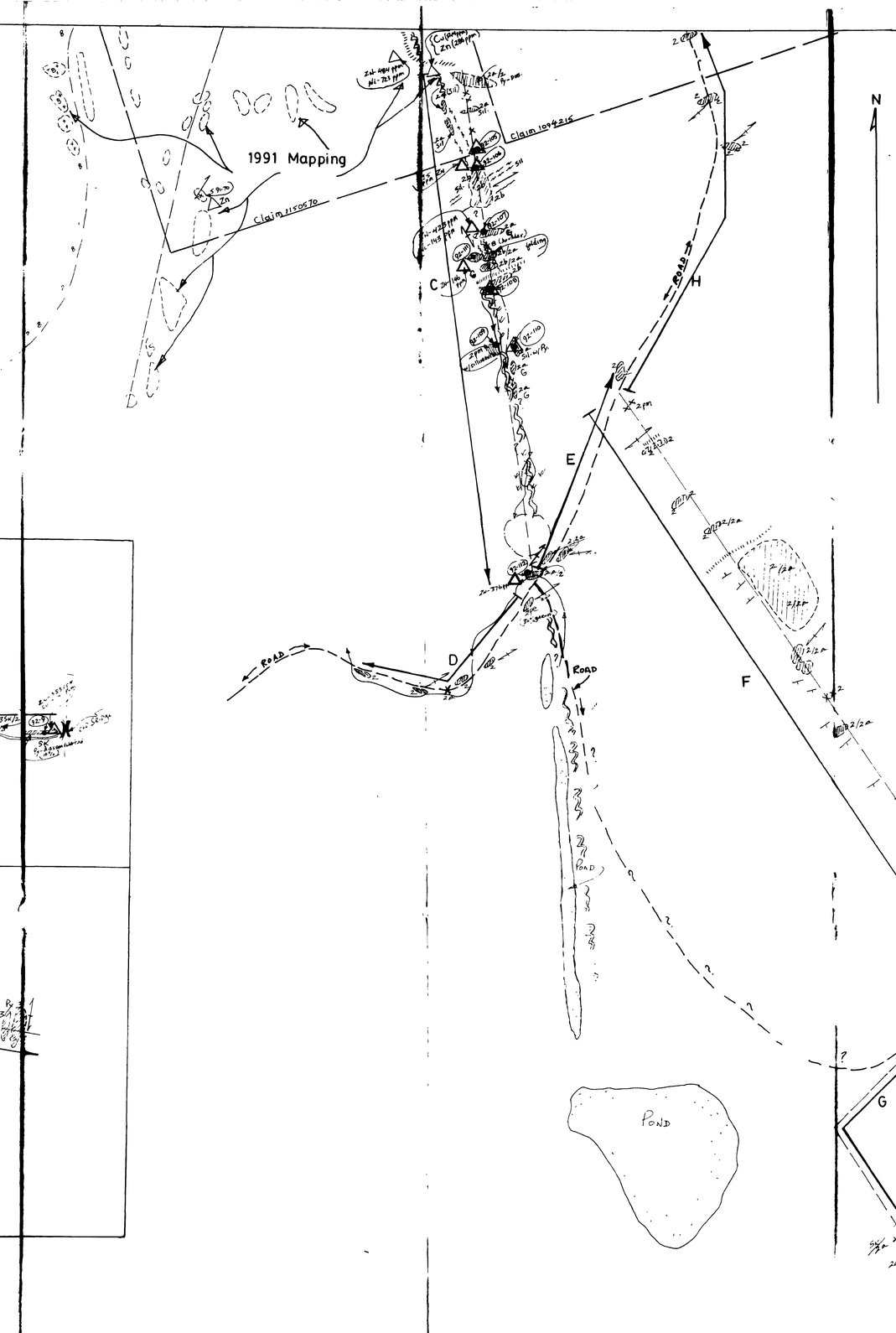


TRAVERSE "A"



TRAVERSE "B"





LEGEND

- 8 GRANITE
- 3 CALCITIC LIMESTONE
- 3bs SILICATED MARBLE
- 2 QUARTZITIC / AMPHIBOLITIC GNEISS
- 2a CHLORITIC SCHIST
- 2b BLACK PYRITIZED META-SEDIMENTS (Sheared, Folded)
- 2pe GARNET RICH PARAGNEISS
- 2pm MUSCOVITE RICH GNEISS / SCHIST

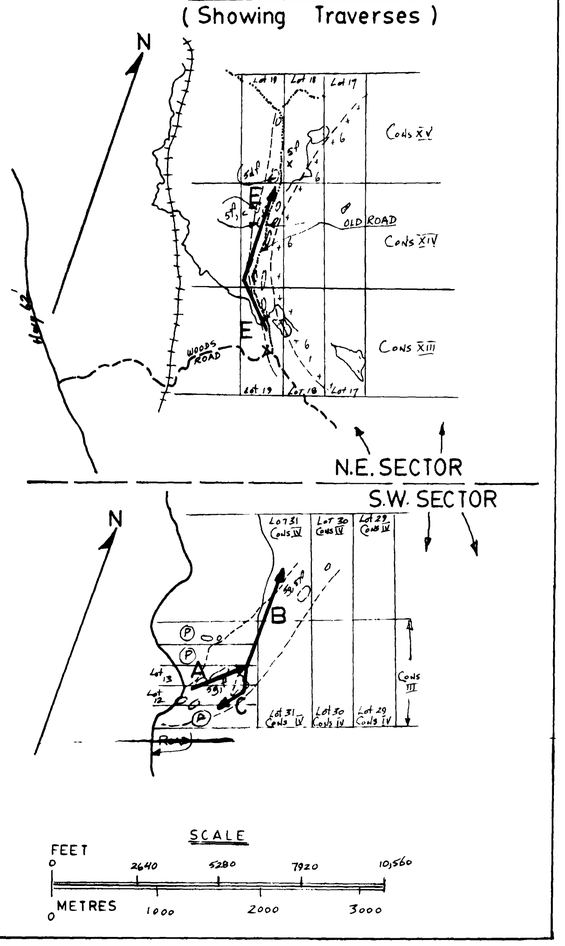
- G TRAVERSE LINE
- OUTCROP EXAMINED
- STRIKE & DIP (Topography)
- xx SMALL OUTCROP or LARGE BOULDER
- SAMPLES COLLECTED
- STRIKE & DIP OF LINEATION
- ESCARPMENT
- Sil SILICIFICATION
- G GOSSAN
- S SILLIMANITE
- Sk SKARN (Silicated limestone)
- Py PYRITE
- SHEARED ROCK
- FAULT (Interpreted)
- Thin Section Analysis
- Multielement Analysis

SCALE
FEET
0 200 400 600 800 1000
METRES
0 100 200 300

GEOLOGICAL PLAN
ASHBY & MAYO TWPS.
1992 OPAP PROJECT #11

DRAWN: R. Stewart Oct. '92 | SCALE: 1" = 200' | DWG. S92-11

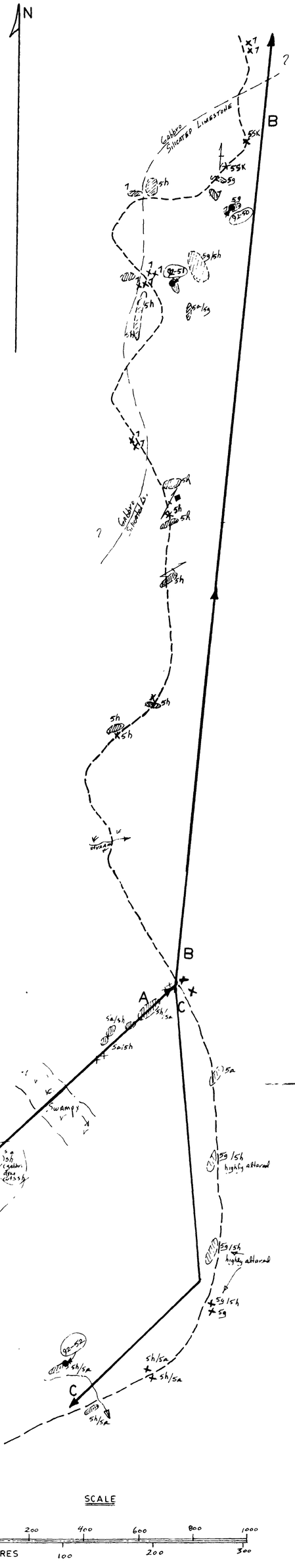
INDEX PLAN
(Showing Traverses)



SCALE

FEET 0 2640 5280 7920 10,560

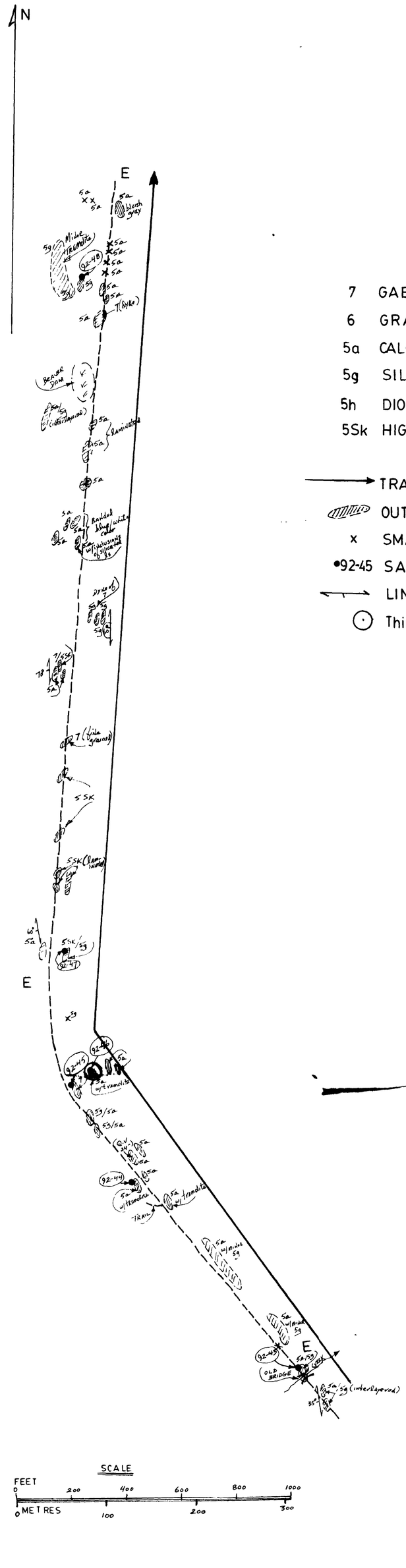
METRES 0 1000 2000 3000



SCALE

FEET 0 200 400 600 800 1000

METRES 0 100 200 300



SCALE

FEET 0 200 400 600 800 1000

METRES 0 100 200 300

LEGEND

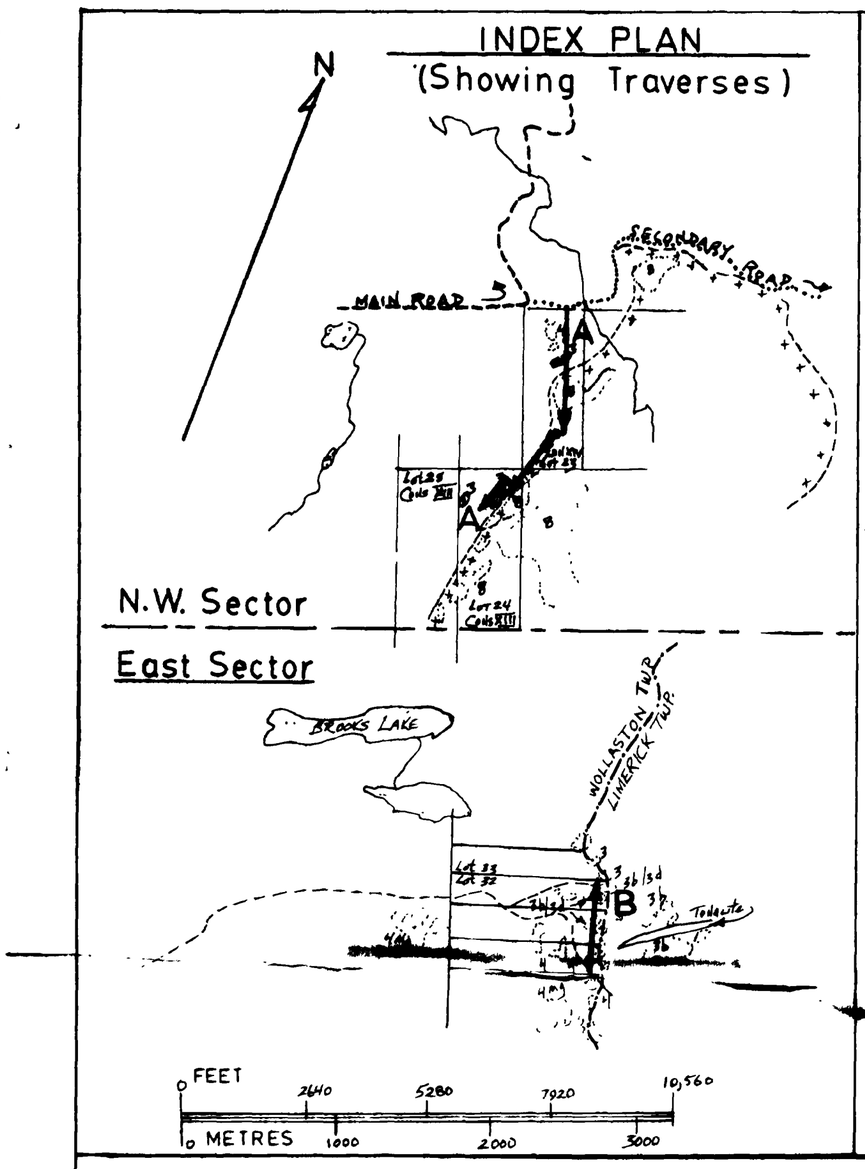
- 7 GABBRO
- 6 GRANITE
- 5a CALCITIC LIMESTONE
- 5g SILICATED LIMESTONE (w/ mica ± sillimanite ± amphibole)
- 5h DIOPSIDIC LIMESTONE
- 5Sk HIGHLY SILICEOUS LIMESTONE (minor gossan)

- TRAVERSE LINE
- OUTCROP EXAMINED
- x SMALL OUTCROP or BOULDER
- •92-45 SAMPLE SELECTED
- LINEATION (Strike & Dip)
- Thin Section Analysis

GEOLOGICAL PLAN
LIMERICK TOWNSHIP
(1992 OPAP Project #10)

DRAWN: R.Stewart 02/92 | SCALE 1" = 200' | DWG. S 92-10

INDEX PLAN
(Showing Traverses)



LEGEND

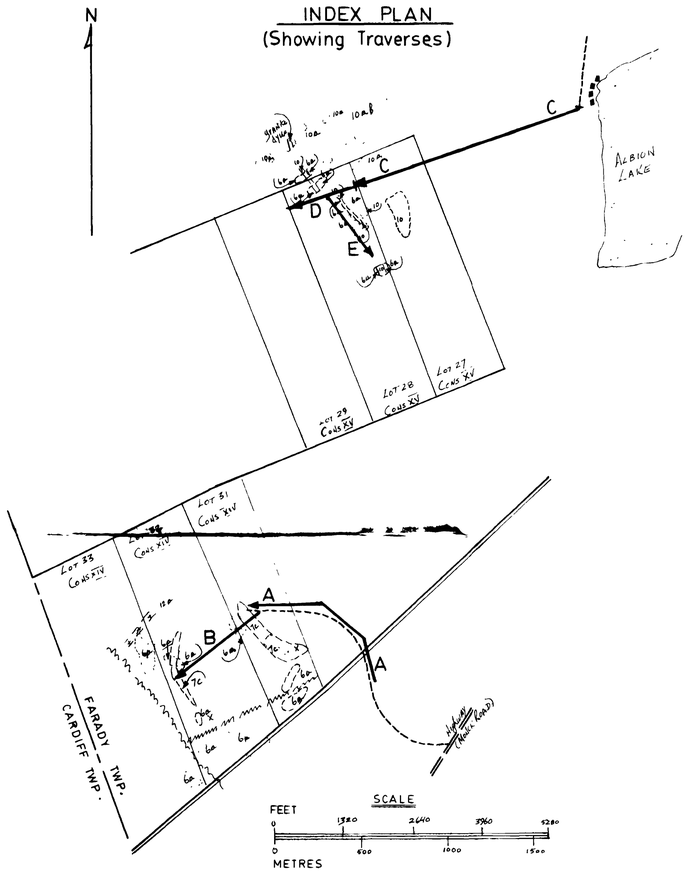
- 8 GRANITE
- 4 GABBRO / META-GABBRO
- 3 AMPHIBOLITE / PYROXENITE
- 3b SILICATED MARBLE
- 3d DIOPSIDIC MARBLE (Calcitic)
- 3Sk SKARN ROCK (Silicated Marble)
- 3e CALCITIC LIMESTONE
- TRAVERSE LINE
- OUTCROP EXAMINED
- x SMALL OUTCROP or BOULDER
- ESCARPMENT
- •92-1 SAMPLE SELECTED
- LINEATION (Strike & Dip)
- ⊙ Thin Section Analysis

Ralph Stewart

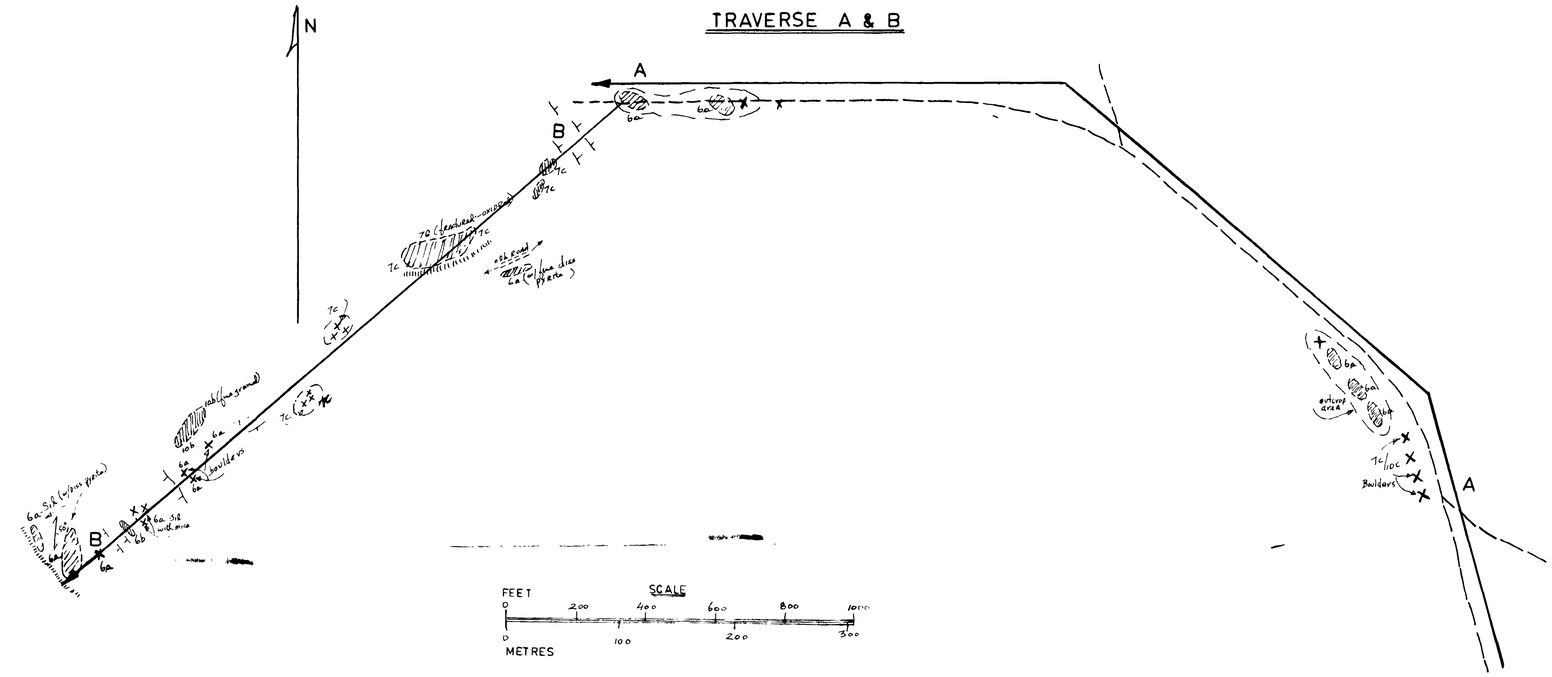
GEOLOGICAL PLAN
WOLLASTON TOWNSHIP
(1992 OPAP Project# 9)

DRAWN: R.Stewart Oct/92	SCALE: 1"=200'	DWG. S 92-9

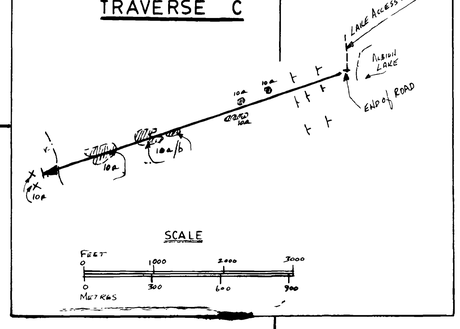
INDEX PLAN
(Showing Traverses)



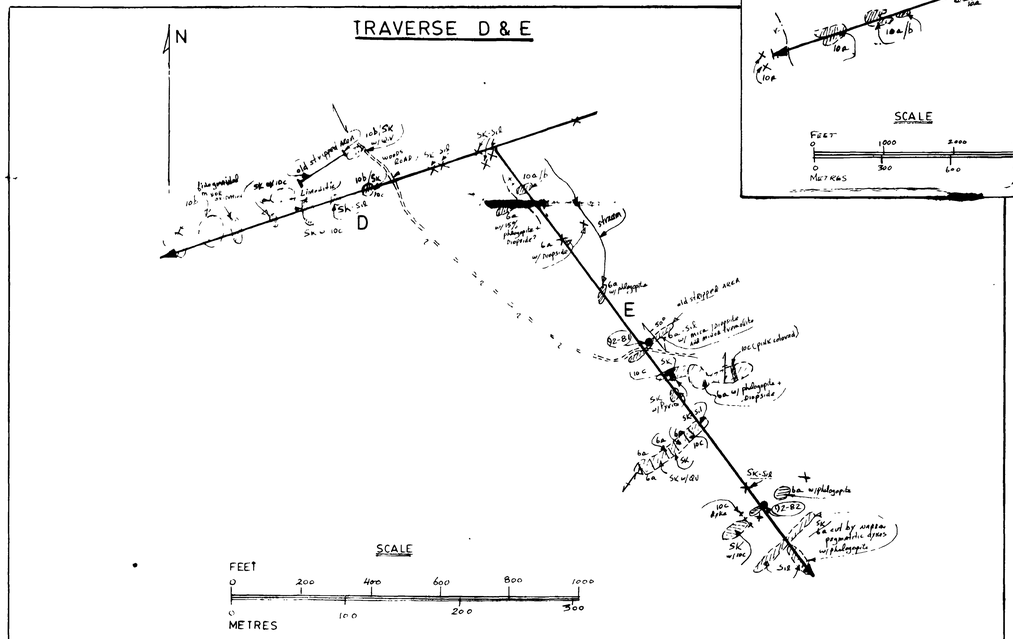
TRAVERSE A & B



TRAVERSE C



TRAVERSE D & E



LEGEND

10a	GRANODIORITE
10b	GRANITE
10c	GRANITIC PEGMATITE
7c	GABBRO / AMPHIBOLITE
6a	CALCITIC MARBLE
6b	DOLOMITIC LIMESTONE
Sk	SKARN ROCK (Silicified Marble)
⟶	TRAVERSE LINE
	OUTCROP EXAMINED
•92-3	SAMPLES SELECTED
x	BOULDER or SMALL OUTCROP
QV.	QUARTZ VEINS
Sil	SILICIFICATION
	ESCARPMENT
	TOPOGRAPHY (Direction & Dip)
	LINEATION (Strike & Dip)

GEOLOGICAL PLAN
FARADAY TOWNSHIP-1
1992 OPAP Project# 7

DRAWN R. Stewart Oct/92 | SCALE 1"=200' | DWG. S 92-7

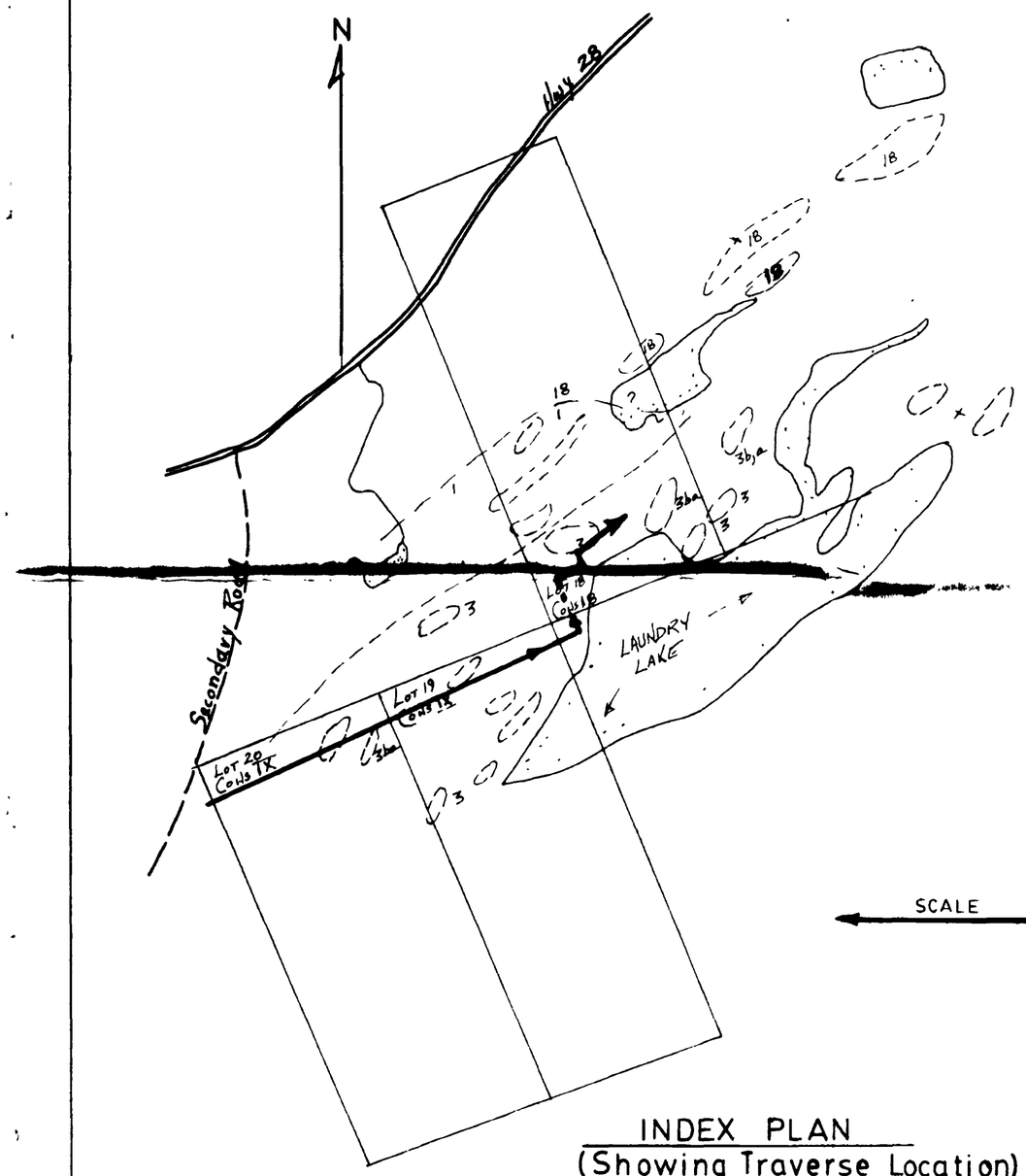
LEGEND

1	Amphibole / Gabbroic Gneiss
3a	Calcitic Marble
3b	Dolomitic Marble
3c	Tremolite Rich, Calcitic / Dolomitic Limestone
18	Granite Pegmatite
→	Traverse Line
	Outcrop Examined
×	Small Outcrop or Boulder
	Lineation (Strike & Dip)
	Strike & Dip of Topography
	Escarpment
⊙	Thin Section Analysis

SCALE

FEET 0 500 1000 1500 2000 2500

METRES 0 200 400 600 800



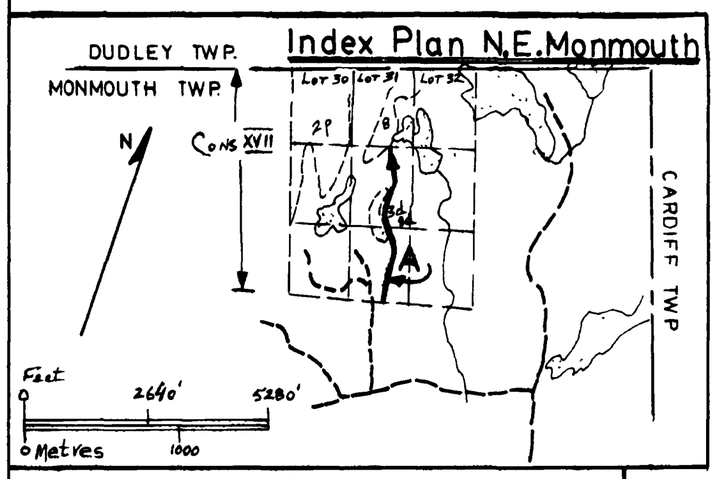
INDEX PLAN
(Showing Traverse Location)

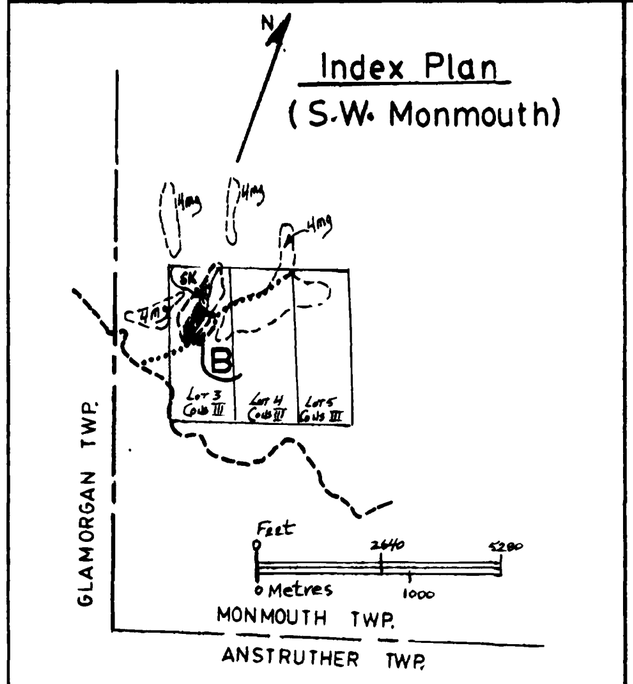
FEET 0 200 400 600 800 1000

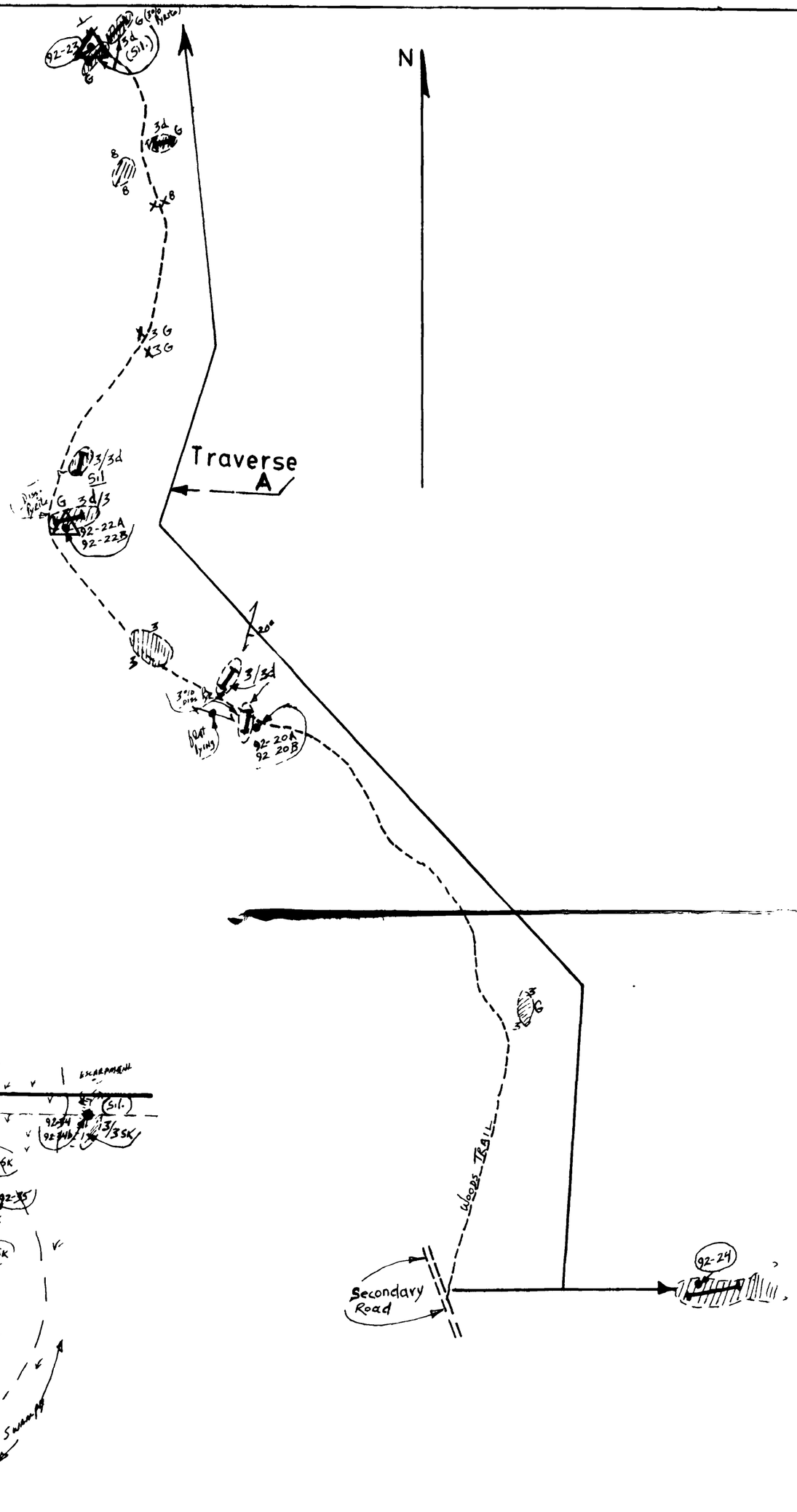
METRES 0 100 200 300

GEOLOGICAL PLAN
FARADAY TOWNSHIP-2
1992 OPAP Project # 8

DRAWN R. Stewart Oct/92 | SCALE: 1"=200 | DWG S 92-8







LEGEND

- 8 Granitic Rocks
- 4mg Meta Gabbro
- 3 Calcitic Limestone
- 3d Diopsidic Marble
- 3 Sk ; Skarn (Contact Rock)

- Traverse Line
- Outcrops Examined
- • 92-20 Sample Selected
- Strike & Dip (Lineation)
- Old Trench
- X Small Outcrop(s)
- G Gossaned
- Sil Silicification
- △ Multielement Analysis

SCALE

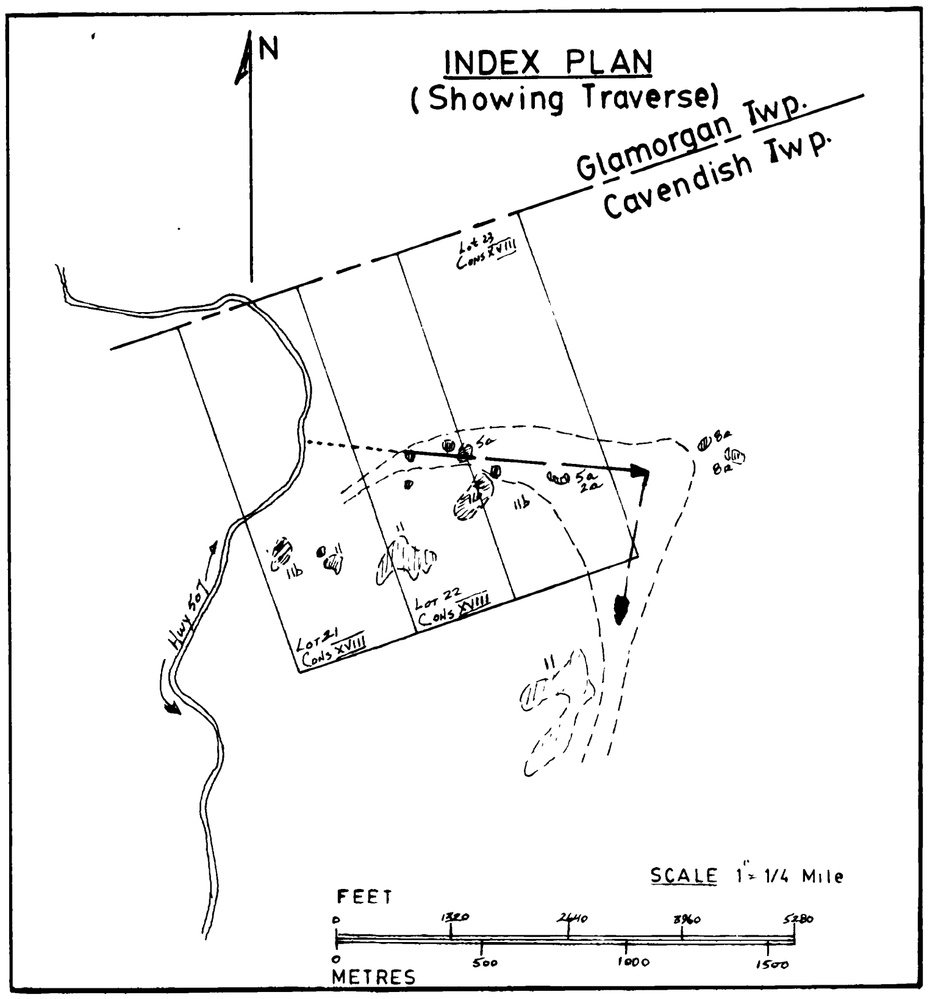
FEET 0 200 400 600 800 1000

0 METRES 100 200 300

GEOLOGICAL PLAN

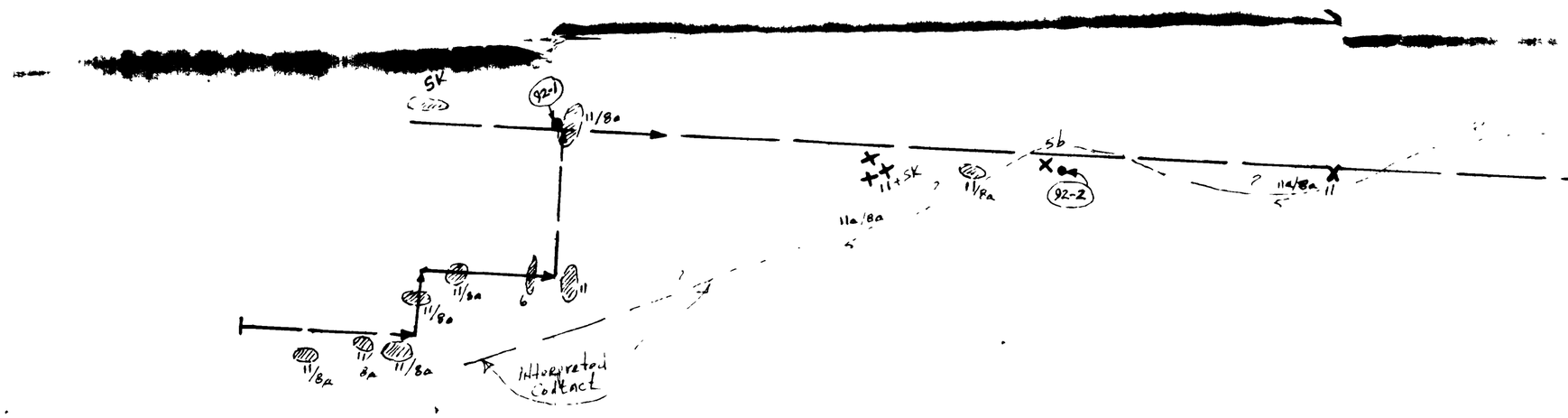
Monmouth Township
(1992 OPAP Project #6)

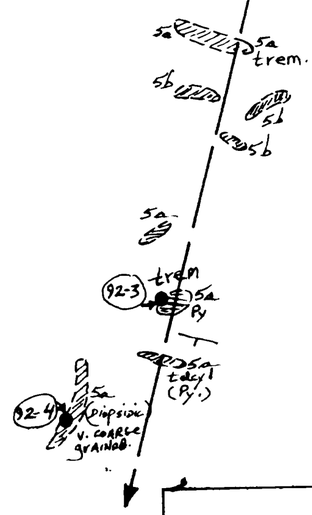
DRAWN: R. STEWART Oct./92 | SCALE 1"=200' | Dwg S 92-6



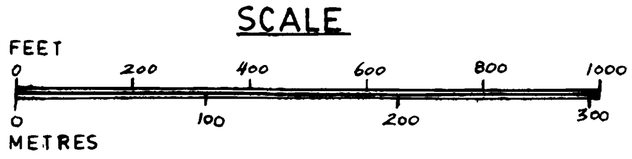
LEGEND

Sk	Skarn (Silicated Contact / Dolomite–Granite)
11	Granite/Granodiorite 8a–Gabbro or Granodiorite
7	Meta-Volcanics (felsic)
6	Meta Volcanics (mafic)
5a	Siliceous Dolomite
5b	Dolomitic Marble
trem	Tremolite
Py	Pyrite
——→	Traverse Line
	Outcrop Examined
92-4	Sample Selected
X	Small Outcrop or boulder





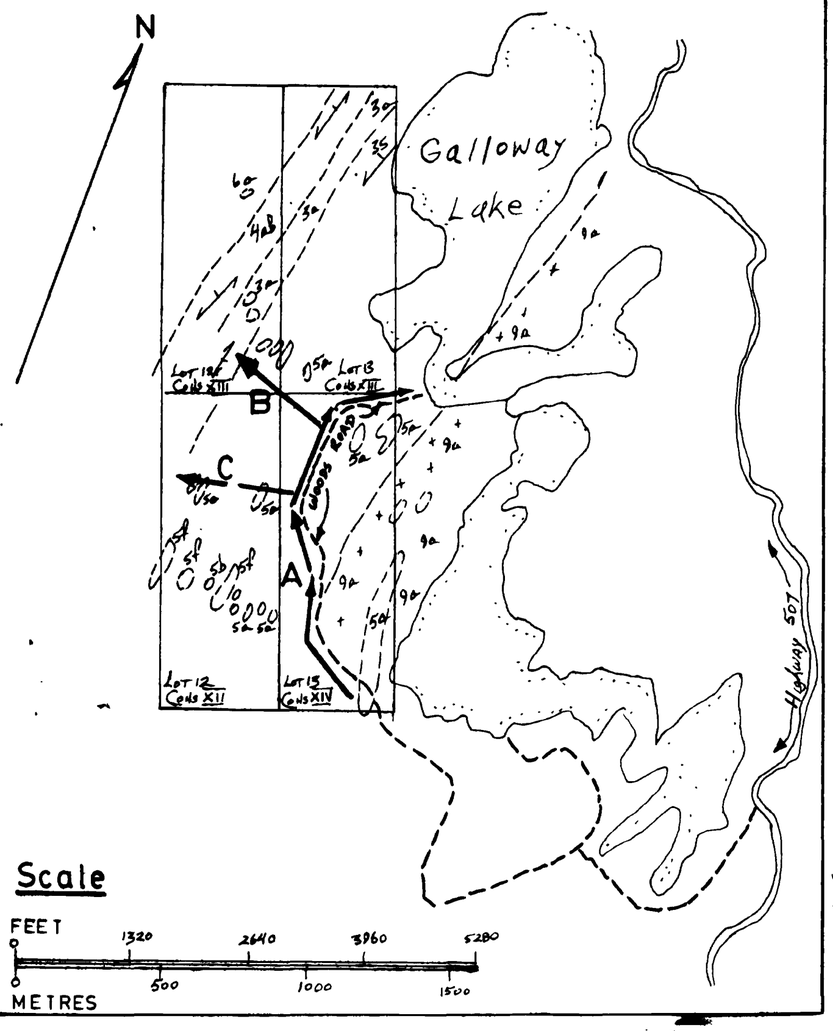
SCALE



GEOLOGICAL PLAN
Cavendish Township
(1992 OPAP Project # 3)

Drawn: R Stewart Oct/92	Scale 1"=200	Dwg. S 92-4

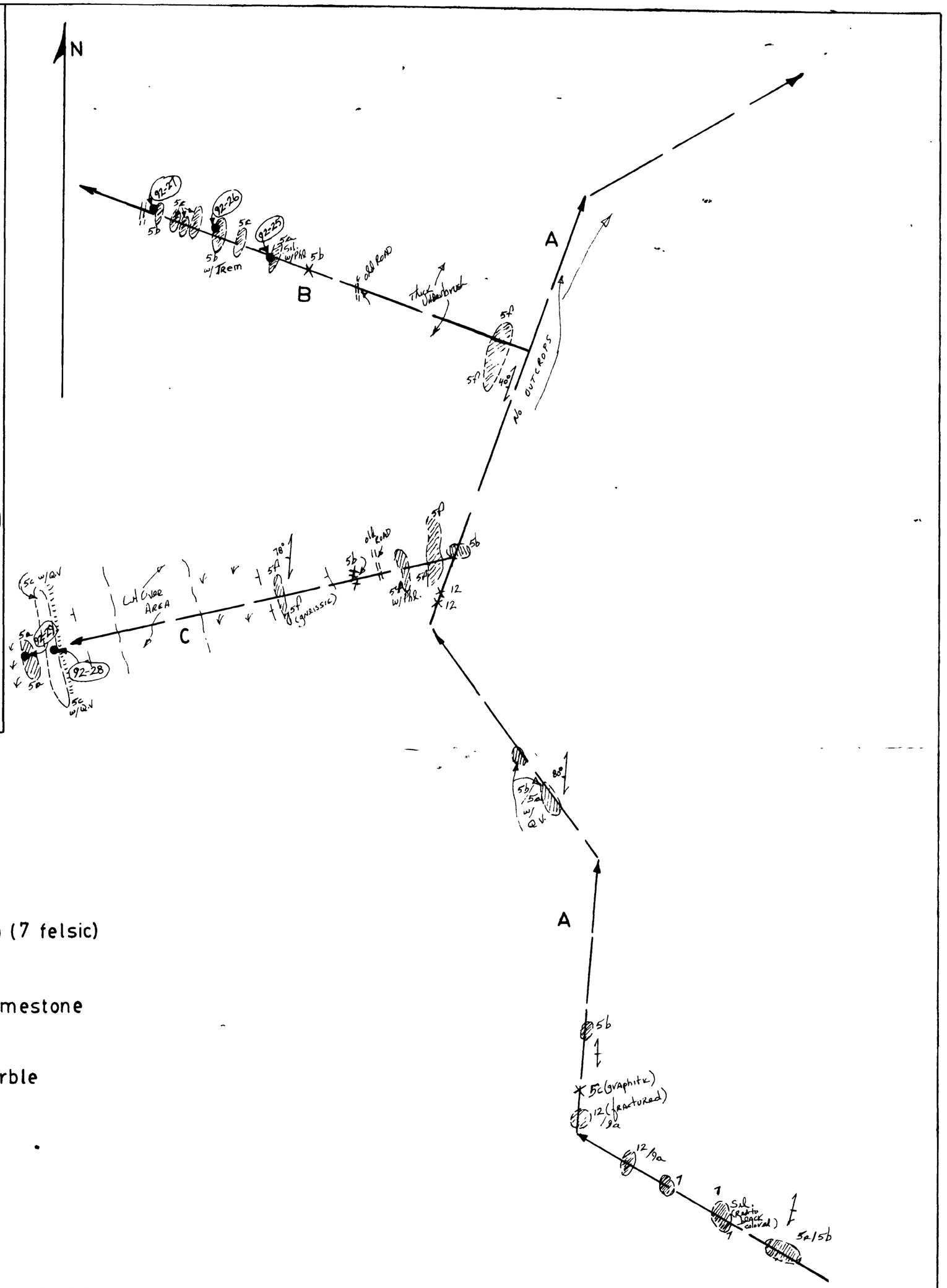
INDEX PLAN
(Showing Traverses)



Scale

FEET 0 1320 2640 3960 5280

METRES 0 500 1000 1500



LEGEND

12	Granitic Dykes
9a	Syenite Intrusives
6/7	Meta Volcanics - (6-mafic) (7 felsic)
5a	Silicified Limestone
5b	Calcitic / Dolomitic Limestone
5c	Dolomite
5f	Diopsidic / Calcitic Marble
Sil.	Silicified
Q.V.	Quartz Veins
Trem.	Tremolite
Phl.	Phlogopite
x	Small Outcrop or Large Boulder
——→	Traverse Line
	Outcrops Examined
——→	Lineation (Strike & Dip)

SCALE

FEET 0 200' 400 600 800 1000

METRES 0 100 200 300

GEOLOGICAL PLAN
Cavendish Township
(1992 OPAP Project #4)

Drawn: R Stewart Oct/92 | Scale: 1"=200 | Dwg. S 92-5