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REPORT ON THE BENOIT TOWNSHIP GOLD PROPERTY  
LARDER LAKE MINING DIVISION  
FOR  
KEN SKJONSBY

S.J. Carmichael Consultants  
Kirkland Lake, Ontario

Jan. 10, 1994  
NTS 42 A/SE  
OPAP # 93-227



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**SUMMARY**

This report on the Benoit Township property has been prepared by S.J. Carmichael, B.Sc., FGAC at the request of Ken Skjonsby, residence at Bourkes Ontario. This report is intended to complete the OPAP reporting obligations, of which Mr. Skjonsby has applied for, and been accepted for a total sum of \$10,000.00 (ten thousand dollars). Mr. Skjonsby's OPAP grant number is OP93-227.

This report will also be submitted to the Ministry of Northern Development and Mines for assessment credits.

The property comprises two separate staked claim groups and one patent. The Bourkes Mine Prospect covers four contiguous claims (160 acres), and the South Farm Prospect which comprises six staked contiguous claims and one patent totalling 400 acres.

The claims are located in the southwest portion of Benoit Township, District of Cochrane, Larder Lake Mining Division, approximately twenty-three kilometres north northwest of Kirkland Lake.

Previous work on the South Farm Prospect includes that by Johnson in 1920, Lacana Mining in 1985 and more recent work by Skjonsby in 1959 and 1990-92.

The Bourkes Mine Prospect was discovered in 1917 with some underground development taking place between 1917 and 1947. More recent work includes that by Mathan Explorations in 1974, Goliath Gold Mines in 1981 and by Skjonsby himself in 1991. Reserves at the Bourkes Mine are estimated at 97,963 tons at 0.428 oz/ton Au.

This years program included two diamond drill holes totalling 187.2 metres, 1.2 km of VLF-EM surveying and trenching and sampling on the South Farm Prospect. Proposed work on the Bourkes Mine section was not completed due to difficulties in obtaining clear title over the mine patent.

No significant gold intersections were achieved during this phase of exploration. The best assay being 80 ppb Au over 1.52m in hole 93-B-41. Significant alteration including carbonatization, silicification with pyrite mineralization was intersected in 93-B-41 which corresponded with the VLF anomaly "E". This appears to be an extensive anomaly with a strike length in excess of 700 metres, extended 300 metres by this years VLF-EM survey. Despite the low assays returned, at least two additional drill holes are recommended to further test this anomaly.

No significant assays were returned by stripping and sampling on the Johnson showing, also on the South Farm Prospect.

Total expenditures on this program were \$11,988.49

**Report on the Benoit Township Gold Property  
Larder Lake Mining Division  
for  
Ken Skjonsby**

**INTRODUCTION**

This report on Ken Skjonsby's Benoit Township mining exploration property has been prepared by S.J. Carmichael Consultants at the request of Mr. Skjonsby. It is a description and evaluation of recent exploration completed on the property and is intended to fulfil both OPAP and assessment requirements.

Information on the property is derived from the records of the Ministry of Northern Development and Mines and publications by the Ontario Geological Survey. The author of this report completed the VLF survey and logged all drill core completed during this year. All work was performed between May, 1993 and January, 1994.

**PROPERTY LOCATION AND ACCESS**

The Skjonsby claim groups are located in the southwest portion of Benoit Township (NTS 41 A/SE), District of Cochrane and within the Larder Lake Mining Division.

Access to the properties is by Highway 11 to the Bourkes Village Road, a distance of 25 km north of the Kirkland Lake turnoff. The centre of the claims is approximately 1.5 km east along the Bourkes Road.

The Skjonsby residence is located on the north portion of the patented claim.

**TOPOGRAPHY**

Both the South Farm and Bourkes Mine Prospects are cut by the White Clay River. The patented claim has been cleared for farming and the

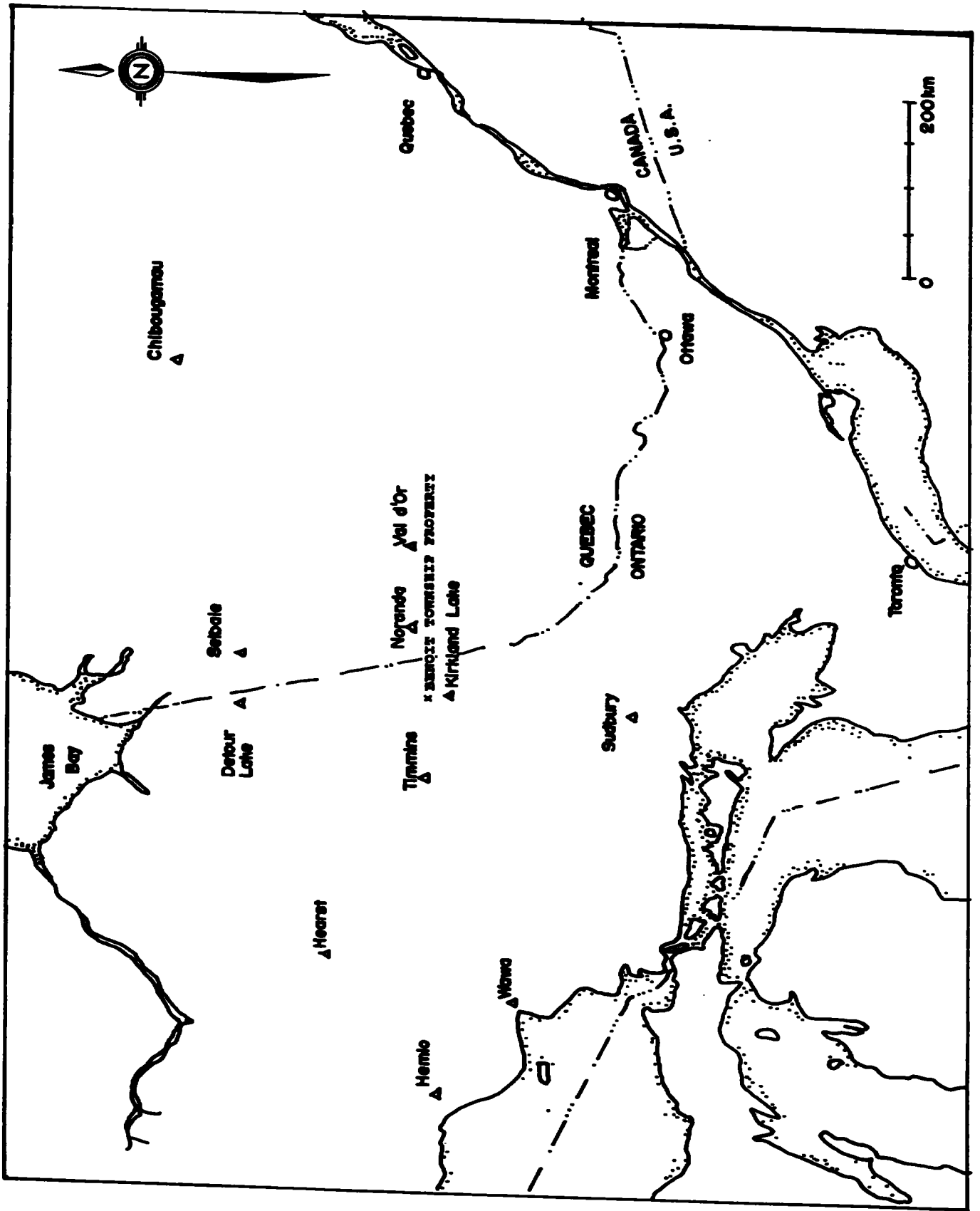


FIGURE 1 - GENERAL LOCATION PLAN

remaining six staked claims which make up the South Farm Prospect are low lying and covered by mixed forest. The west portion of claims 1168430 and 1168431 are covered by spruce swamp.

The Bourkes Mine Prospect is covered by low ground with some poplar and spruce stands. The abandoned mine itself is 20' above the White Clay River.

**LAND TENURE AND OWNERSHIP**

The Skjonsby property can be divided into two separate staked portions joined by a patented claim. The South Farm Prospect comprises six contiguous staked claims as well as the patent with a total area of 400 acres. The Bourkes Mine Prospect comprises four staked contiguous claims with an area of 160 acres. The claim numbers, recorded dates and applied assessment credits are listed in the following table:

CLAIM NUMBER	RECORDED DATE	APPLIED CREDITS	COMMENTS
L-919906*	Jan. 16, 1987	\$4,400.00	Requires \$400.00 by Jan. 16, 1999
L-919907*	Jan. 16, 1987	\$4,000.00	Requires \$400.00 by Jan. 16, 1999
L-919908*	Jan. 16, 1987	\$4,000.00	Requires \$400.00 by Jan. 16, 1999
L-919909*	Jan. 16, 1987	\$3,608.00	Requires \$392.00 by Jan. 16, 1999
L-1168428**	March 25, 1991	\$2,400.00	Requires \$400.00 by March 25, 1998
L-1168429**	March 25, 1991	\$2,400.00	Requires \$400.00 by March 25, 1998
L-1168430**	March 25, 1991	\$1,600.00	Requires \$400.00 by March 25, 1996
L-1168431**	March 25, 1991	\$1,365.00	Requires \$35.00 by March 25, 1995

\* Represents Bourkes Mine Prospect

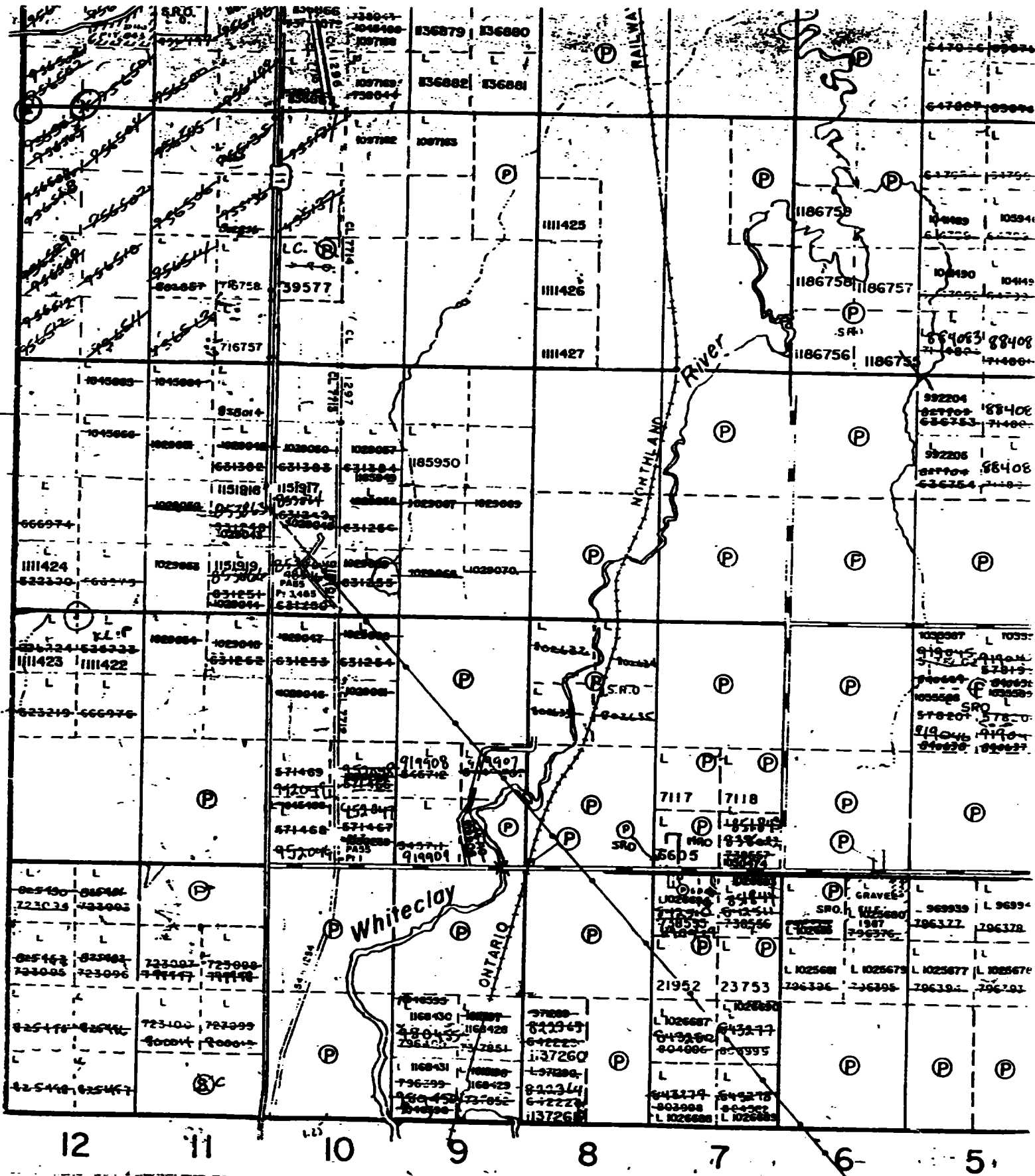
\*\* Represents South Farm Prospect

All claims are in good standing at this time.

Difficulties in obtaining clear title to the Bourkes Mine patent precludes further exploration at the mine until ownership is clarified.

**PROPERTY HISTORY**

The Ontario Geological Survey mapped Benoit Township in 1965 with a final report published in 1971 (Rep. 92, Map 2215) by H.



**NOTICE OF FORESTRY ACTIVITY**

THIS TOWNSHIP / AREA FALLS WITHIN THE WATABEAG MANAGEMENT UNIT

AND MAY BE SUBJECT TO FORESTRY OPERATIONS.

THE MNR UNIT FORESTER FOR THIS AREA CONTACTED AT: P.O. BOX 129

**Maisonville Twp.**

FIGURE 2 - CLAIM LOCATION PLAN, SCALE 1"=1/2 MILE

Lovell. In 1979, Benoit Township was flown by a government funded AEM and Magnetometer survey. (Map 2250).

The Bourkes Mine was discovered in 1917 on his farm by Oscar Anderson. The gold was found to be in association with gold and silver tellurides in quartz/carbonate veins and stringers within sheared basalt. Between 1917 and 1920, a two compartment shaft was sunk to a depth of 400' with drifting on four levels. 5,331 lbs of ore was milled in 1918. The mine was sold to Tellaurum Gold Mines in 1933 and de-watered with re-sampling of the workings. Some ore was milled by the Bourkes Syndicate in 1936-37 and by Mesabi Gold Mines in 1938. Total production was 277 oz Au and 50 oz Ag from 1,298 tons milled. Davidor Gold Mines then operated a test mill in 1946-47 and more than 315 tons were milled grading \$5.00/ton. Reserves were calculated at 97,963 tons at 0.428 oz/ton to the 400' level.

In 1974, Mathan Explorations completed ground EM and magnetometer surveys and eight drill holes totalling 2,566'. Six of the holes tested the known gold occurrence with two holes completed along strike both to the northwest and the southeast. The best assay was 0.324 oz/ton Au over 2.5' near the shaft. Deeper drilling was recommended.

The Bourkes Mine Prospect was then held by Goliath Gold Mines in 1981 who completed ground EM and magnetometer surveys. Three 706' holes were drilled east of the shaft, however, no assay results were published. The validity of the EM survey is questionable as anomalies were denoted by contouring negative



Fraser Filter numbers as opposed to positive numbers.

Two diamond drill holes were completed by K. Skjonsby in 1991 located approximately 100' northwest of the White Clay River and along strike of the shaft.

The South Farm Prospect was first worked in 1920 by Johnson who test pitted and stripped quartz/carbonate veins with pyrite mineralization oriented north-south (present claim 1186430).

In 1959, K. Skjonsby completed 5 short X-Ray holes totalling 695.6' on claim 1168428. Some quartz stringers were intersected. In 1985, Lacana Mining completed ground EM and magnetometer surveys over present claims 1186430 and 1168431. One north-south trending anomaly was noted, located at the #1 post on 1186430.

K. Skjonsby completed one X-Ray hole in 1988 on claim 1137261 and two additional holes in 1991 on the same claim along with two holes on claim 1168428.

In 1992, Skjonsby completed 3.5 km of surface magnetometer and VLF-EM surveying followed by on 60 metre diamond drill hole. The strongest anomaly "E" was initially tested but the holes failed to reach bedrock. Instead, a weaker anomaly "D" was tested. Additional drilling at the Bourkes Mine section included two holes totalling 118 metres.

#### **REGIONAL GEOLOGY**

Mapping by Lovell in 1965 indicates that the claims underlain by meta-volcanics of tholeiitic chemistry, probably belonging to the Kinojevis Group. The volcanics have been intruded by irregular north-south trending syenitic and lamprophyre dikes and by later

north-south diabase dikes.

### **PROPERTY GEOLOGY**

Neither the South Farm or Bourkes Mine Prospects have been geologically mapped in detail. The Bourkes Mine is described as "Mafic volcanics are cut by felsic stringers and dikes, and by 3-foot wide shear zones containing quartz-carbonate veins and lenses with maximum widths of 1 foot. The main ore zone lies in a shear which strikes N30 deg. W and dips vertically. Mineralization consists of pyrite, chalcopyrite, galena, molybdenite, and visible gold."

### **1993 EXPLORATION PROGRAM**

#### **SUMMARY**

The 1993 exploration program consisted of two diamond drill holes which tested anomaly "E" totalling 187.2 metres. One hole was abandoned after 19.8 metres of overburden. An additional 1.2 kilometres of VLF-EM surveying was completed south of the 1992 survey. Stripping and sampling (6 samples) was completed over the Johnson Showing section of the South Farm Prospect.

#### **A) Diamond Drilling**

Two attempts were made at sectioning anomaly "E" on line 0+00. The first attempt (DDH 93-B-39) failed to ledge due to gravel overburden which resulted in binding of the drill rods. A second attempt was made with the collar located 28 metres east of the initial hole. This hole managed to ledge at 7.32 metres and intersected massive weakly magnetic tholeiitic basalt followed by pillowed basalt. Little mineralization was intersected and the best

assay was 50 ppb Au over 0.92 metres. The cause of the VLF anomaly was not intersected, possibly because the hole appears to have been drilled down-dip of the anomaly.

The second hole (DDH 93-B-41) was collared on line 3+00S, also to test anomaly "E". This hole intersected pillowed and flow-top brecciated basalt with carbonatization from 15.85-37.04 metres followed by a silicified +/- carbonatized section with quartz veining and localized disseminated pyrite mineralization from 37.04-49.27 metres. The alteration and mineralization appeared very encouraging, however, the assays were very low and only slightly anomalous. The hole ended in foliated pillowed basalt with a 1.52 metre section assaying 80 ppb Au, the best in the hole. Also of interest was a partial sludge sample from 0.00-30m which assayed 0.105 indicating that gold mineralization is present in the hole.

#### B) Stripping and Geophysics

As outlined in the OPAP proposal, stripping and trenching was completed over the Johnson section using a tractor mounted backhoe. A total of six grab samples were taken of quartz vein material and analyzed for gold. Nil assays were returned from all samples.

Because the proposed work program at the Bourkes Mine section could not be completed, it was decided to extend the South Farm Prospect grid south and survey the grid by VLF-EM, possible extending anomaly "E" further south.

This was successful in that the anomaly appears continuous at least as far as 6+00S and likely continuous further giving a total strike length of 800 metres. A flexure in the anomaly at line 4+00S

indicates a possible late cross fault, unfortunately interference caused by power lines along the O.N.R. railway tracks disrupted the readings on line 4+00S.

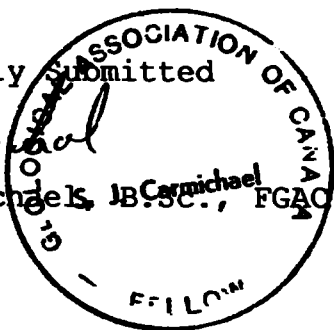
**CONCLUSIONS AND RECOMMENDATIONS FOR FURTHER WORK**

Additional drilling of EM anomaly 'E' south of the O.N.R. tracks on lines 5+00S or 6+00S on the South Farm Prospect to test the south extension of anomaly "E" is recommended. Although the assays to date are poor, the anomaly appears to be of large extent with alteration and mineralization which are conducive to gold mineralization.

No further work is required on the Johnson claims and work at the Bourkes Mine depends on obtaining title.

Respectfully Submitted

*S.J. Carmichael*  
S.J. Carmichael, B.Sc., FGAC



Appendix A

**CERTIFICATE OF QUALIFICATIONS**

I, Stewart J. Carmichael, of the Town of Kirkland Lake, in the District of Timiskaming, in the Province of Ontario, Canada, do hereby certify that:

- 1) I am a consulting geologist with address 42 Rand Avenue East Kirkland Lake, Ontario, P2N 1X1.
- 2) I am a graduate of McMaster University, Hamilton, Ontario, having received the degree of Bachelor of Science, Geology from the Faculty of Science in 1982. I have since practised in the field of mineral exploration continuously since graduation.
- 3) I am a Fellow of the Geological Association of Canada.
- 4) I have no direct interest, nor do I expect to receive any interest in the Skjonsby claims.
- 5) In addition to my personal knowledge of the area, I have made use of the records of the Ministry of Natural Resources of Ontario, and of Mr. Skjonsby's records in the preparation of this report.

Dated this 10 day of January, 1994

  
Stewart J. Carmichael, B.Sc., FGAC

Appendix B

**LIST OF EXPENDITURES**

A) DIRECT COSTS

1) Labour, 43 days at \$100.00/day.....	\$4,300.00
2) Helper.....	3,200.00
3) Geophysical Surveys.....	100.00
3) Geological Consultant.....	600.00
5) Assays.....	803.36
6) Fuel.....	764.59
7) Bits, Casing Shoes.....	1,368.90
8) Misc. Drill Equipment.....	705.20
9) Meals.....	146.44

Total.....\$11,988.49

G.S.T. 011175112 (2)

49.00  
12,037.49 H.E.S.

*Appendix C*  
*DIAMOND DRILL LOGS*

Co-ords .0 N -75.0 E

KEN SKJONSBY DPAP

Page: 1  
HOLE NO.: 93-B-39

Azimuth: 245.0

DIAMOND DRILL RECORD

Dip: -55.0

Elevation 1000.0

Length: 19.8

Property: SKJONSBY FARM  
Purpose: Test VLF-EM Anomaly  
Drilled by: K.Skjonsby  
Date Started: May 22, 1993  
Date Completed: June 20,  
Logged by:  
Core Size: AQ  
Claim Number: L-1168430

Dip Tests

From (m)	To (m)	Description	Sample No.	From (m)	To (m)	Length (m)	AU PPB	Au-2 oz/ton
.00	19.82	CASING						
	19.82	End of Hole.						
		Hole abandoned due to binding of casing with gravel.						





Co-ords .0 N -47.0 E

HOLE NO.: 93-B-40

DIAMOND DRILL RECORD

Azimuth: 245.0

Property: SKJONSBY FARM

Dip: -44.0

Purpose: Test VLF-EM Anomaly

Drilled by: S. Skjonsby

Elevation 1000.0

Date Started: June 26, 1993

Date Completed: July 24, 1993

Logged by: S. Carmichael

Length: 97.3

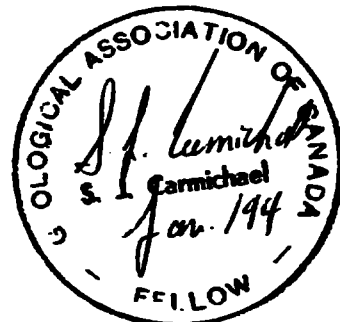
Core Size: AQ

Claim Number: L-1168430

CORE STORED AT SKJONSBY FARM N.E.S.

Dip Tests

From (m)	To (m)	Description	Sample No.	From (m)	To (m)	Length (m)	AU PPB	Au-2 oz/ton
.00	7.32	CASING						
7.32	32.32	BASALT						
		Dark green fine-grained basalt. Moderately fractured with 10-15% epidote stringers. 2-4% quartz stringers. Weakly magnetic to 18.29m.						
		8.20 8.32 Quartz/epidote flooding. Barren.						
		10.95 11.19 As above.						
		29.57 Becoming foliated at 38 deg. To C.A.						
32.32	97.26	PILLOWED BASALT						
		Light green fine grained pillowed basalt with chill fractures throughout. Locally with flow top breccia.						
		32.32 Fault Narrow seam of gouge at 45 deg. To C.A.						
		53.90 Fault Narrow seam of gouge, dip 65 deg. To C.A.						
		53.90 54.88 Foliated basalt, trace pyrite.						
		60.43 60.67 Hyaloclastite.						
		73.17 74.09 Quartz flooded from 73.54-73.93m. Barren.						
		83.84 84.76 Weakly foliated flow top breccia, 10% quartz flooding, trace pyrite.						
		84.77 Moderately silicified with 10% pyrite from 85.06-85.52m.						
		86.89 1 inch quartz vein, dip 70 deg. To C.A.						
		87.74 87.96 Quartz flooded, barren.						
		92.23 2 inch quartz vein, dip 90 deg. To C.A. Barren.						
		97.10 1 inch quartz vein, dip 38 deg. To C.A.						
		97.26 End of Hole.						
		Casing Pulled.						
			673	53.90	54.88	.98	20.0	tr
			674	73.17	74.09	.92	50.0	tr
			675	83.84	84.76	.92	20.0	tr
			676	84.76	85.67	.91	10.0	nil



Co-ords -300.0 N -73.0 E

KEN SKJONSBY DPAP

Page: 1  
HOLE NO.: 93-B-41

Azimuth: 245.0

DIAMOND DRILL RECORD

Property: SKJONSBY FARM  
Purpose: Test VLF-EM Anomaly

Dip: -50.0

Drilled by: S. Skjonsby  
Date Started: July 25, 1993  
Date Completed: August 26, 1993

Elevation 1000.0

Logged by: S. Carmichael

Length: 89.9

Core Size: AQ

Claim Number: L-1168428

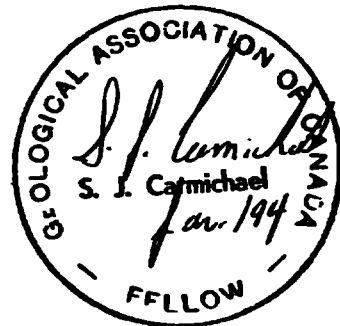
CORE STORE AT SKJONSBY FARM N.E.A.

Dip Tests

From (m)	To (m)	Description	Sample No.	From (m)	To (m)	Length (m)	AU PPB	Au-2 oz/ton
.00	5.18	CASING						
5.18	15.85	FLOW TOP BRECCIA Light green/grey fine-grained silicious flow top breccia. Silicious altered pillow fragments throughout with local hyaloclastite. Weakly carbonated and fractured with secondary quartz +- calcite stringers and flooding. Erratic 2-3% pyrite mineralization throughout as blebs and stringers. Sulfide content increases where alteration of fragments increases (carbonate +- albite).						
6.10	7.62	Silicious flow top breccia, 2-4% pyrite, trace pyrrhotite +- chalcopyrite.	626	6.10	7.62	1.52	.0	nil
7.62	9.15	As above, ground core from 8.60-8.78m.	627	7.62	9.15	1.53	10.0	nil
9.15	10.67	Silicious flow top breccia, 4% pyrite, trace pyrrhotite.	628	9.15	10.67	1.52	10.0	nil
11.28	12.20	Buff carbonate alteration with 5% disseminated pyrite from 11.43-11.68m.	629	11.28	12.20	.92	10.0	nil
13.11	14.02	Flow top breccia, 10% pyrite along fragment rims.	630	13.11	14.02	.91	10.0	nil
14.02	15.24	As above, 20% quartz flooding and stringers.	631	14.02	15.24	1.22	10.0	nil
15.24	15.85	As above, 4% pyrite.	632	15.24	15.85	.61	10.0	nil
15.85	37.04	CARBONATIZED BASALT Moderately foliated flow top breccia, highly reactive to HCl. Local buff hematite/carbonate alteration. Foliation at 40 deg. To C.A. Trace to 1-2% disseminated pyrite mineralization throughout.						
15.85	16.59	Foliated with 1% pyrite.	633	15.85	16.89	1.04	20.0	tr
16.59	17.10	Highly altered and foliated with hematite +- albite quartz vein from 17.07-17.10m, 2-3% fine pyrite throughout.	634	16.89	17.10	.21	10.0	nil
17.10	18.60	Weakly altered section, 2% quartz +-	635	17.10	18.60	1.50	10.0	nil

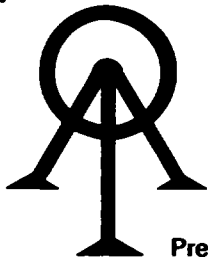
From (m)	To (m)	Description	Sample No.	From (m)	To (m)	Length (m)	AU PPB	Au-2 oz/ton
		calcite stringers. Trace pyrite.						
19.66	20.73	Quartz/calcite vein from 19.76-19.91m. Trace-1% pyrite throughout.	636	19.66	20.43	.77	20.0	tr
20.73	21.22	Highly silicified/carbonated with 8% finely disseminated pyrite.	637	20.73	21.22	.49	10.0	nil
21.22	22.56	Moderately carbonated, trace pyrite. 1 inch quartz vein at 22.35m, dip 16 deg. To C.A.	638	21.22	22.56	1.34	10.0	nil
22.56	23.17	Moderately silicified pillow fragments, 2% disseminated pyrite.	639	22.56	23.17	.61	10.0	nil
23.17	24.70	Increase in epidote alteration and breccia fragments at 23.93m. Trace pyrite throughout.	640	23.17	24.70	1.53	10.0	nil
24.70	25.91	Strong foliation at 44 deg. To C.A. Local erratic silicification with 1% disseminated.	641	24.70	25.91	1.21	20.0	tr
		Pyrite throughout.						
27.13	28.66	Strong foliation with highly stretched albitized fragments. 2-4% pyrite throughout.	642	27.13	28.66	1.53	10.0	nil
28.66	29.12	Quartz vein from 28.81-29.02m. 4% pyrite in volcanics, trace in vein.	643	28.66	29.12	.46	.0	nil
29.12	30.49	Strong foliation at 24 deg. To C.A. Trace-1% disseminated pyrite.	644	29.12	30.49	1.37	10.0	nil
30.49	31.71	Decrease in foliation, weak alteration. 1 inch quartz vein at 31.13m. Trace-1% pyrite.	645	30.49	31.71	1.22	10.0	nil
			646	33.54	35.37	1.83	10.0	nil
33.84	35.37	As above.						
35.37	36.28	As above.	647	35.37	36.28	.91	10.0	nil
36.28	37.04	Becoming increasingly carbonated with hematite stringers. Trace pyrite.	648	36.28	37.04	.76	.0	nil
37.04	49.27	<b>MINERALIZED ZONE</b> Highly altered and foliated volcanics, possibly an interflow sediment. Variably silicified and carbonated throughout, locally with quartz vein/flooding. Weak hematite alteration in strongly foliated sections. Sulfide content variable as described below.						
37.04	37.68	Quartz vein, 25% albitized pyritized fragments. 5-8% fine pyrite, trace-.5% chalcopyrite.	649	37.04	37.68	.64	10.0	nil
37.68	38.87	Moderately carbonated volcanics. 20% quartz +- calcite +- hematite stringers. Trace pyrite.	650	37.68	38.87	1.19	10.0	nil
38.87	40.30	As above.	651	38.87	40.30	1.43	.0	nil
40.30	41.16	Strongly foliated with hematite/carbonate alteration. Quartz veins from 40.85-40.91m 41.10-41.16m. 5-6% fine pyrite throughout.	652	40.30	41.16	.86	10.0	nil
41.16	42.38	Strong foliation with moderate carbonate/hematite alteration. Trace-1% disseminated pyrite.	653	41.16	42.38	1.22	.0	nil
42.38	43.29	As above.	654	42.38	43.29	.91	10.0	nil

From (m)	To (m)	Description	Sample No.	From (m)	To (m)	Length (m)	AU PPB	Au-2 oz/ton
45.12	46.65	As above.	655	45.12	46.65	1.53	10.0	nil
46.65	47.87	As above, 1-2% pyrite.	656	46.65	47.87	1.22	10.0	nil
47.87	49.27	Highly carbonated, 1 inch quartz vein at 48.26m, dip 27 deg. To C.A. And from 49.02-49.18m. 4-5% disseminated pyrite around veins.	657	47.87	49.27	1.40	.0	nil
49.27	89.94	<b>PILLOWED BASALT</b> Light green fine-grained pillowed basalt. Weakly to moderately carbonated. Locally veined. 4-5% quartz + calcite stringers. Trace pyrite throughout, up to 4-5% py at vein contacts.						
50.91	52.13	As above, 1.5 inch quartz vein at 51.89m, dip 60 deg. To C.A. Trace-1% pyrite.	658	50.91	52.13	1.22	10.0	nil
53.35	54.88	As above, trace-1% disseminated pyrite.	659	53.35	54.88	1.53	10.0	nil
54.88	55.98	Becoming increasingly carbonated. 1-2% finely disseminated pyrite.	660	54.88	55.98	1.10	10.0	nil
55.98	57.23	Quartz vein/flooded section with vein along C.A. Vein contact mineralized with 10% fine pyrite, 1% chalcopyrite, 2% specular hematite.	661	55.98	57.23	1.25	40.0	tr
57.23	58.45	10% quartz/calcite/hematite stringers. Trace pyrite.	662	57.23	58.45	1.22	10.0	nil
63.20		Becoming magnetic.						
66.83	68.29	Moderately foliated, trace pyrite.	663	66.83	68.29	1.46	10.0	nil
68.29	69.30	As above.	664	68.29	69.30	1.01	10.0	nil
69.30	70.43	As above, trace pyrite.	665	69.30	70.43	1.13	20.0	tr
70.43	71.95	As above.	666	70.43	71.95	1.52	80.0	tr
71.95	73.17	As above, 20% hematite alteration.	667	71.95	73.17	1.22	10.0	nil
73.17	74.70	Moderately altered, trace-1% pyrite.	668	73.17	74.70	1.53	20.0	tr
79.09	80.49	As above.	669	79.09	80.49	1.40	10.0	nil
82.01	83.54	As above.						
83.54	85.06	Moderately foliated and carbonated, 2-4% disseminated pyrite.	670	83.54	85.06	1.52	10.0	nil
88.11	88.41	Highly silicified with 10-15% fine pyrite.	671	88.11	88.41	.30	10.0	nil
89.94		End of Hole.						
		Casing Pulled.						



*Appendix D*

**ASSAY CERTIFICATES**



# ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO

BOX 426

KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1

TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

47977

## Certificate of Analysis

Page: 1

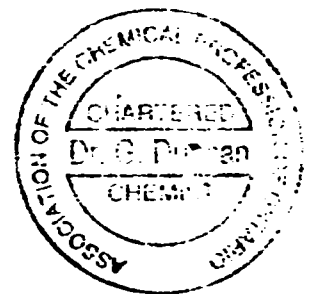
Skjonsby, Mr. Kenneth  
P.O. Box 192  
SWASTIKA, Ontario  
POK 1T0

December 2

93

Work Order #: 930139  
Project

SAMPLE NUMBERS			Gold	Gold	
Accurassay	Customer		ppb	Oz T	Swastika #
931556	229256A	9	0.001		- 000629-13
931557	229256B	11	0.001		634-B
931558	229256A	18	0.001		637
931559	229254A	26	0.001		649
931560	229255A	9	0.001		652
931561	229256A	9	0.001		666
931562	229257A	10	0.001		674
931563	229258A	26	0.001		661
931564	229259A	2842	0.112		
931564	229259A	3148	0.169	Chem P	- Sludge 93-8-41



Per: \_\_\_\_\_

*G. Duncan*



Established 1928

# Swastika Laboratories

A Division of TSL / ASSAYERS INC.

Assaying - Consulting - Representation

Page 1 of 2

3W-2577-RA1

## Assay Certificate

Company: **K. E. SKJONSBY**

Date: **SEP-29-93**

Project:

Attn:

We hereby certify the following Assay of 57 rock & core samples submitted SEP-27-93 by .

Sample Number	Au g/tonne	Au oz/ton	Au Ck g/tonne	Au Ck oz/ton
214743-A	0.03	.001		
214744-A	0.02	.001		
214745-A	0.01	.001		
214746-A	NIL			
214747-A	NIL			
214748-A	0.02	.001	0.01	.001
000626-B	NIL			
000627-B	0.01	.001		
000628-B	0.01	.001		
000629-B	0.01	.001	NIL	
000630-B	0.01	.001		
000631-B	0.01	.001		
000632-B	0.01	.001		
000633-B	0.02	.001		
000634-B	0.01	.001		
000635-B	0.01	.001		
000636-B	0.02	.001		
000637-B	0.01	.001	0.01	.001
000638-B	0.01	.001		
000639-B	0.01	.001		
000640-B	0.01	.001		
000641-B	0.02	.001		
000642-B	0.01	.001		
000643-B	NIL			
000644-B	0.01	.001		
000645-B	0.01	.001		
000646-B	0.01	.001		
000647-B	0.01	.001		
000648-B	NIL			
000649-B	0.01	.001		

Certified by Denis Chantre

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



Established 1928

# Swastika Laboratories

A Division of TSL / ASSAYERS INC.

Assaying - Consulting - Representation

Page 2 of 2

3W-2577-RA1

Date: SEP-29-93

## Assay Certificate

Company: **K. E. SKJONSBY**

Project:

Attn:

We hereby certify the following Assay of 57 rock & core samples submitted SEP-27-93 by .

Sample Number	Au g/tonne	Au oz/ton	Au Ck g/tonne	Au Ck oz/ton
000650-B	0.01	.001		
000651-B	NIL			
000652-B	0.01	.001		
000653-B	NIL			
000654-B	0.01	.001	0.01	.001
000655-B	0.01	.001		
000656-B	0.01	.001		
000657-B	NIL			
000658-B	0.01	.001		
000659-B	0.01	.001		
000660-B	0.01	.001		
000661-B	0.04	.001	0.03	.001
000662-B	0.01	.001		
000663-B	0.01	.001		
000664-B	0.01	.001		
000665-B	0.02	.001		
000666-B	0.08	.002		
000667-B	0.01	.001		
000668-B	0.02	.001		
000669-B	0.01	.001		
000670-B	0.01	.001		
000671-B	0.01	.001	NIL	
000672-B	0.01	.001		
000673-B	0.02	.001		
000674-B	0.05	.001		
000675-B	0.02	.001		
000576-B	0.01	.001		

Certified by 



W 35 E

DEMONT IAW

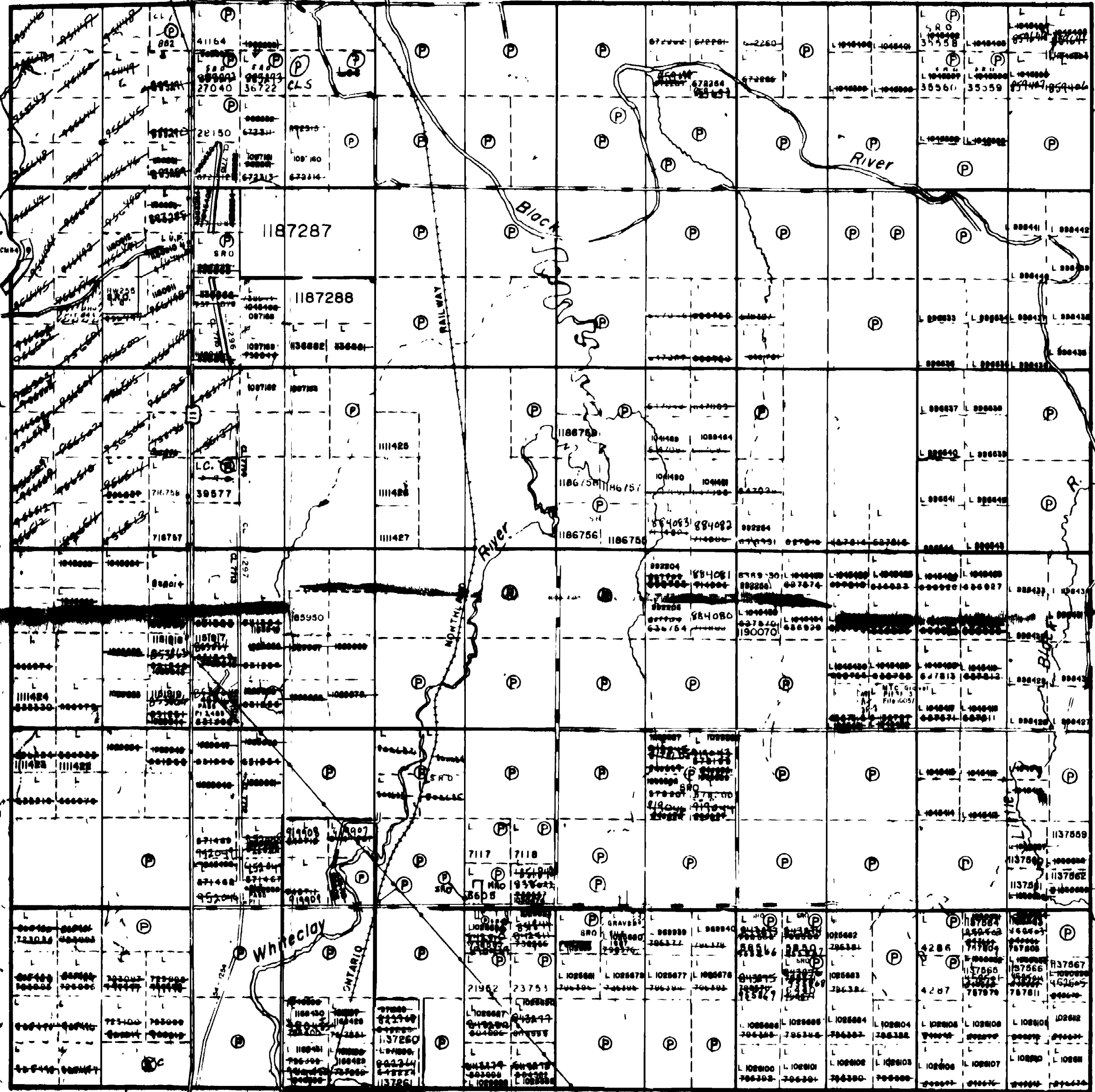
W 35 E

W 35 E

BEAULIEU IAW

W 35 E

# Cook Twp.



**NOTICE OF FORESTRY ACTIVITY**  
 THIS TOWNSHIP / AREA FALLS WITHIN THE  
 WATASHEE MANAGEMENT UNIT  
 AND MAY BE SUBJECT TO FORESTRY OPERATIONS.  
 THE MNR UNIT FORESTER FOR THIS AREA CAN BE  
 CONTACTED AT: P.O. BOX 129  
 P.O. BOX 170  
 905-642-3822

**Maisonville Twp.**  
 COPY OF THIS MYLAR  
 ARCHIVED MARCH 17, 1993

Surface Rights Withdrawn under Sec. 36,  
 The Mining Act R.S.O. 1990, Chapter NO. W-01/01/01/01  
 (Trans Canada Pipeline Right-of-Way and Buffer  
 Zone) wherever 40.25 meters or 132 ft on  
 either side of centre line of (R/W) way

THE TOWNSHIP  
OF

# BENOIT

DISTRICT OF  
COCHRANE

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

### LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KINGS HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- S.R.O.
- CANCELLED

### NOTES

- 400' Surface rights reservation around all lakes & rivers
- Gravel Reserve Shown Thus: [Symbol]
- 400' frontage on Butte Lake withdrawn from disposition for proposed summer resort development File 164586
- [Symbol] as withdrawn from staking under Section 36 of the Mining Act (1990)

File	Date	Disposition

PLAN NO. - M. 326#10

ONTARIO  
**MINISTRY OF NATURAL RESOURCES**  
 SURVEYS AND MAPPING BRANCH

VI

V

IV

III

II

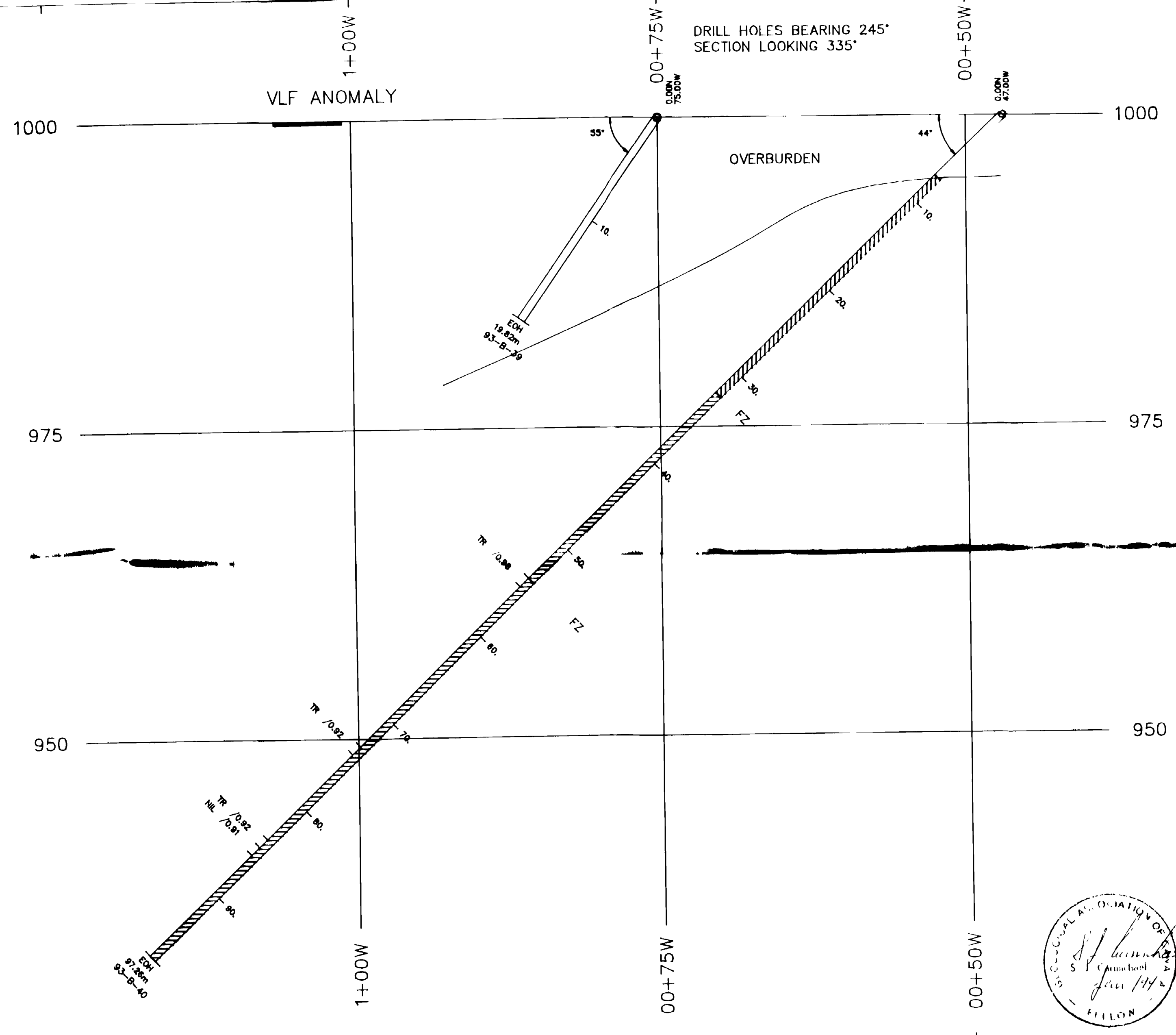
I

Meiba Twp.

THE INFORMATION THAT  
 APPEARS ON THIS MAP  
 HAS BEEN COMPILED  
 FROM VARIOUS SOURCES,  
 AND ACCURACY IS NOT  
 GUARANTEED. THOSE  
 WISHING TO STAKE MIN-  
 ING CLAIMS SHOULD CON-  
 SULT WITH THE MINING  
 RECORDER, MINISTRY OF  
 NORTHERN DEVELOP-  
 MENT AND MINES, FOR AD-  
 DITIONAL INFORMATION  
 ON THE STATUS OF THE  
 LANDS SHOWN HEREON.

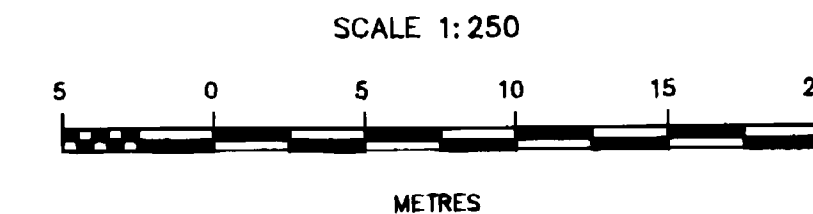


DRILL HOLES BEARING 245°  
SECTION LOOKING 335°



LEGEND

- CASE CASING
- ROCK CODES
- VOLCANIC UNITS
- BASALT
- PILLOWED BASALT
- FLOW TOP BRECCIA
- CARBONATED BASALT
- MINERALIZED ZONE
- FZ FAULT ZONE
- INTRUSIVES
- DIABASE DIKE



SOUTH FARM PROSPECT

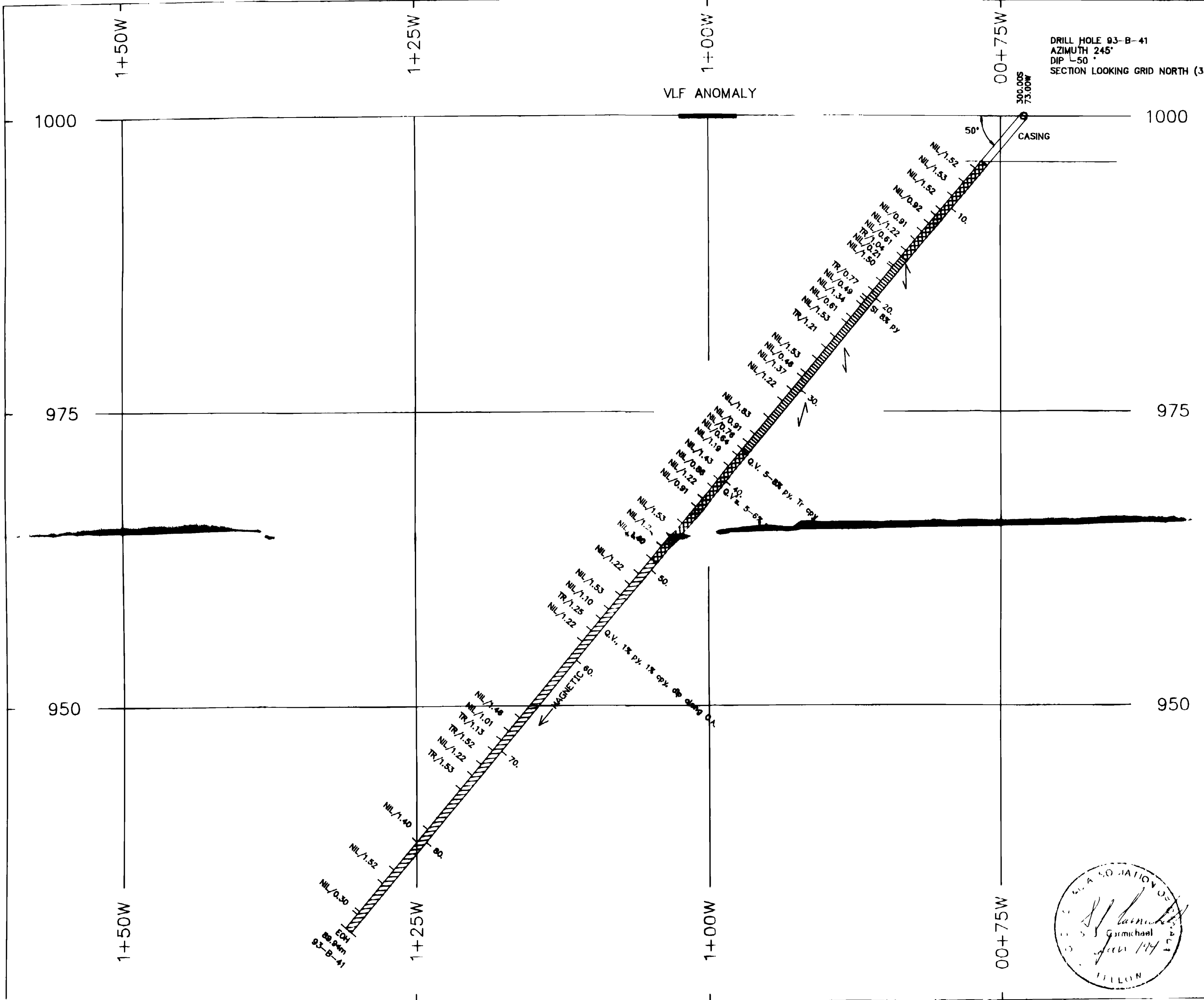
DRILL HOLE SECTION 0+00(WEST)  
DRILL HOLES 93-B-39,40  
SECTION LOOKING GRID NORTH (335°)

BENOIT TOWNSHIP  
DISTRICT OF COCHRANE, ONT.  
LARDER LAKE MINING DIVISION



NTS: 42 A/SW	SCALE: 1:250 METRIC	REVISED: DATE: OCT., 1993
PROJECT:	DRAWN BY: S.J.C.	DRAWING No. 3

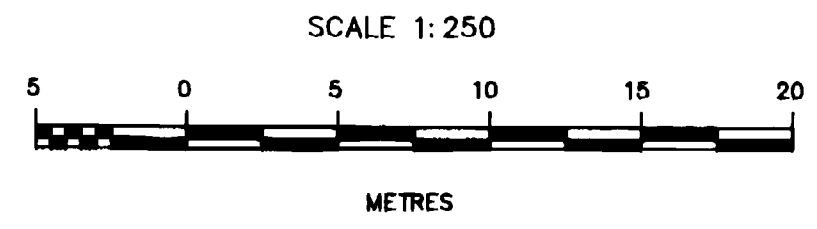




DRILL HOLE 93-B-41  
AZIMUTH 245°  
DIP 50°  
SECTION LOOKING GRID NORTH (335°)

**LEGEND**

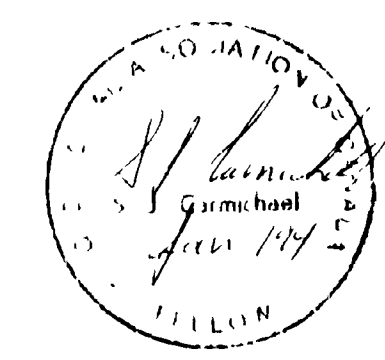
- CASING
  - ROCK CODES**
  - VOLCANIC UNITS**
  - BASALT
  - PILLOWED BASALT
  - FLOW TOP BRECCIA
  - CARBONATED BASALT
  - MINERALIZED ZONE
  - FZ** FAULT ZONE
  - INTRUSIVES**
  - DIABASE DIKE**
  - foliation
  - Q.V.** Quartz Vein
  - py** pyrite
  - cpy** chalcopyrite
  - Si** silicified
- All Assays Are In oz./ton/meters



**SOUTH FARM PROSPECT**

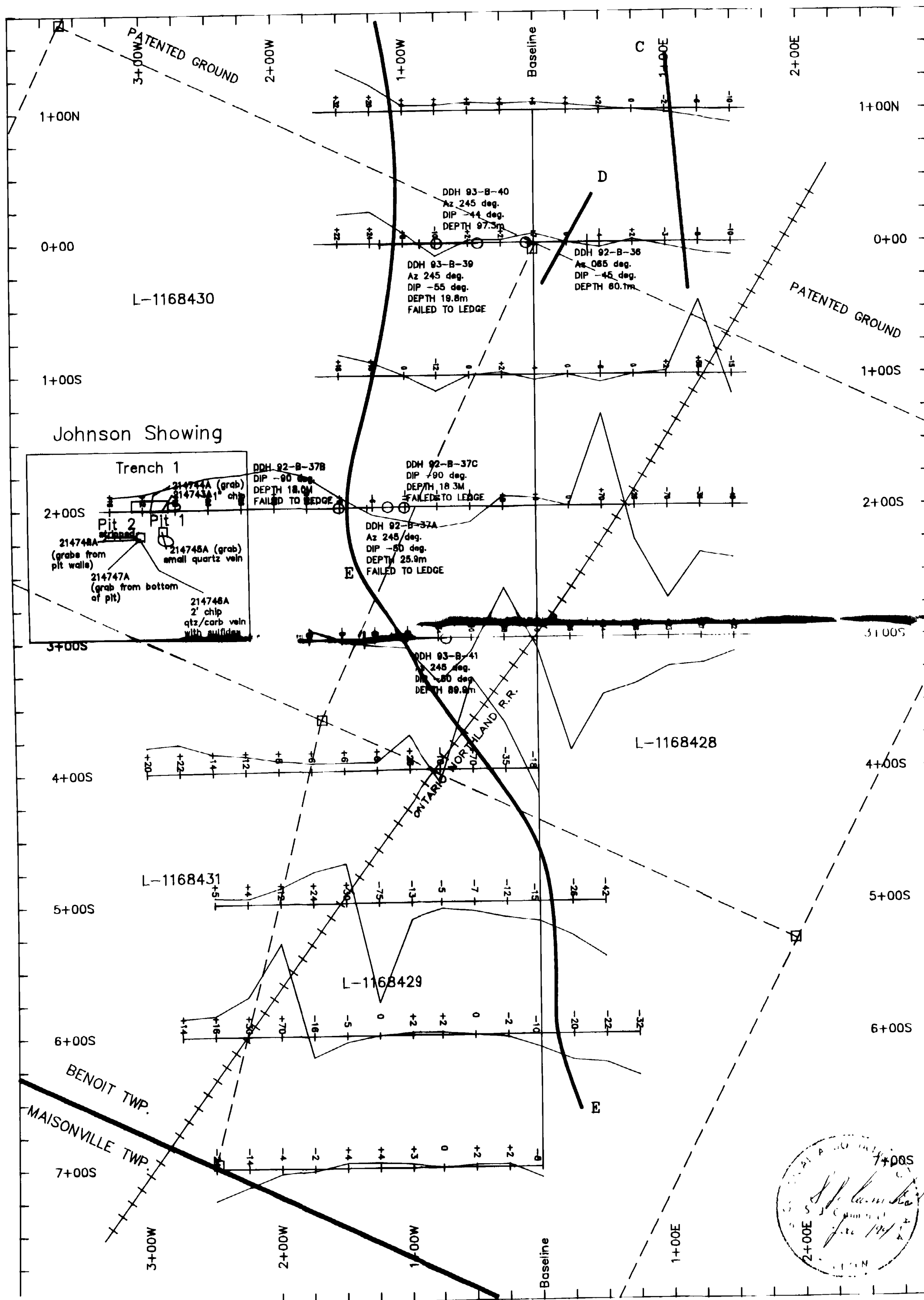
DRILL HOLE SECTION 3+00S  
DRILL HOLE 93-B-41  
SECTION LOOKING 335°

BENOIT TOWNSHIP  
DISTRICT OF COCHRANE, ONT.  
LARDER LAKE MINING DIVISION



NTS: 42 A/SW	SCALE: 1:250 METRIC	REVISED: DATE: OCT., 1993
PROJECT:	DRAWN BY: S.J.C.	DRAWING No. 2

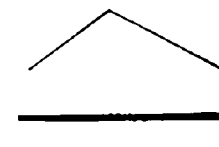




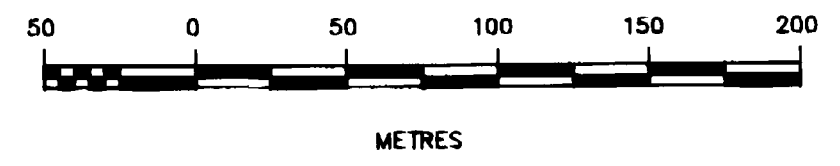
BASELINE AZIMUTH: 3357

### LEGEND

INSTRUMENT: PHOENIX VLF-2  
 STATION: ANNAPOLIS, MARYLAND, 21.4 KHz  
 READINGS FACING NORTH  
 EAST DIP +  
 WEST DIP -  
 PROFILE SCALE: 1cm=25 DEGREES DIP  
 DIP PROFILE  
 AXIS OF ANOMALIES



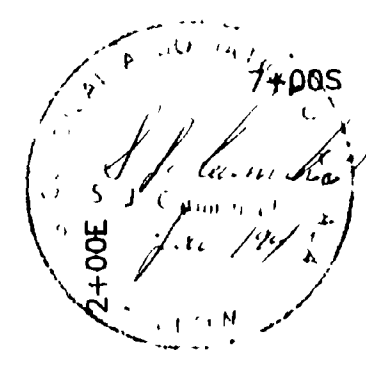
SCALE 1:2500



## SOUTH FARM PROSPECT

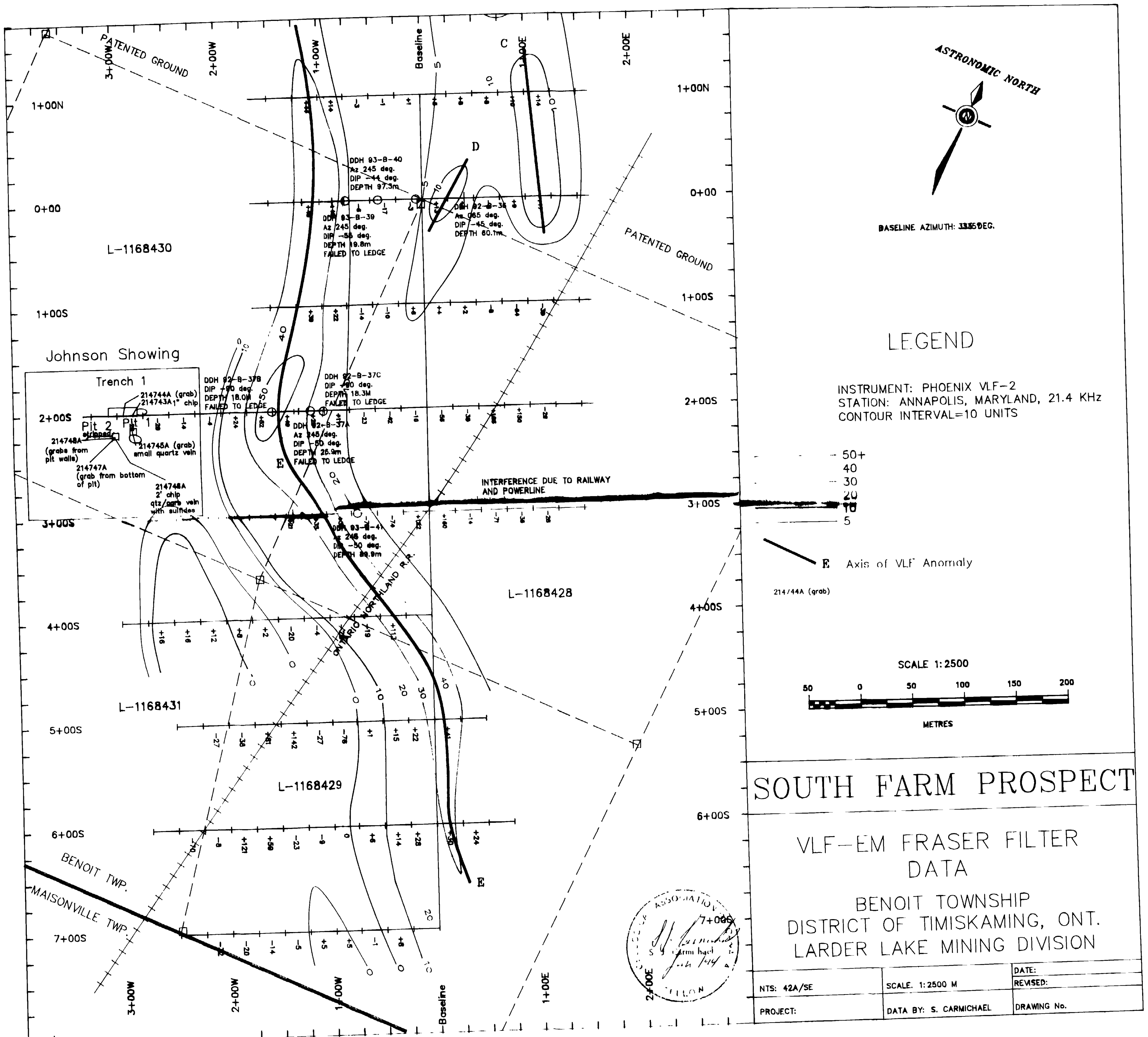
### VLF-EM PROFILES

BENOIT TOWNSHIP  
 DISTRICT OF TIMISKAMING, ONT.  
 LARDER LAKE MINING DIVISION



NTS: 42A/SE	SCALE: 1:2500 M	DATE:
PROJECT:	DATA BY: S. CARMICHAEL	REVISED:
		DRAWING No.





BASELINE AZIMUTH: 338.5 DEG.

### LEGEND

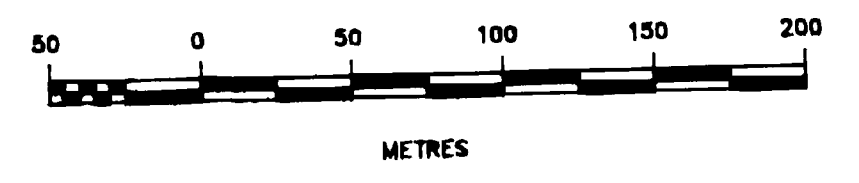
INSTRUMENT: PHOENIX VLF-2  
 STATION: ANNAPOLIS, MARYLAND, 21.4 KHZ  
 CONTOUR INTERVAL=10 UNITS

- 50+
- 40
- 30
- 20
- 10
- 5

Axis of VLF Anomaly

214/44A (grab)

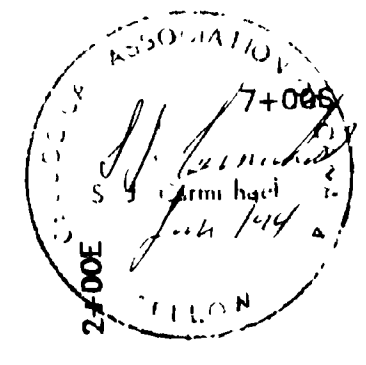
SCALE 1:2500



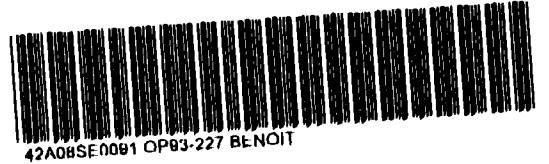
## SOUTH FARM PROSPECT

### VLF-EM FRASER FILTER DATA

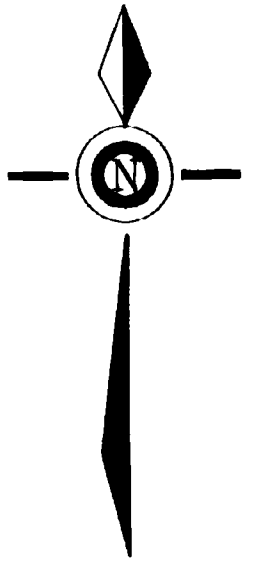
BENOIT TOWNSHIP  
 DISTRICT OF TIMISKAMING, ONT.  
 LARDER LAKE MINING DIVISION



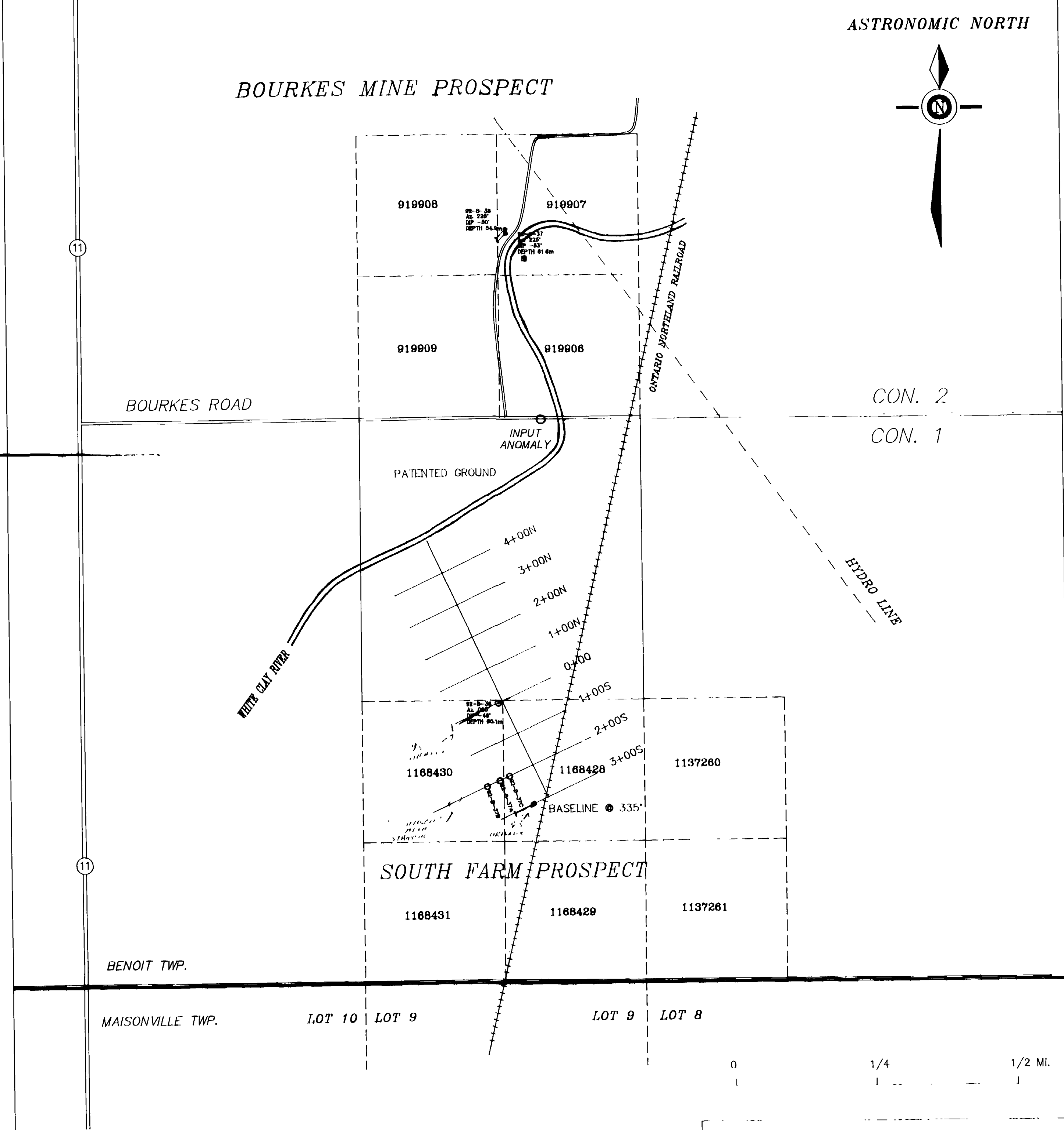
NTS: 42A/SE	SCALE: 1:2500 M	DATE: REVISED:
PROJECT:	DATA BY: S. CARMICHAEL	DRAWING No.



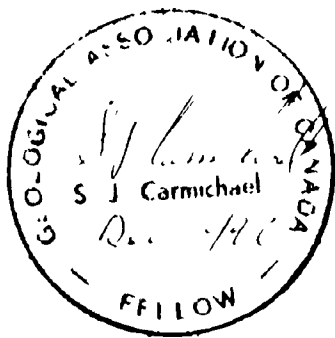
ASTRONOMIC NORTH



### BOURKES MINE PROSPECT



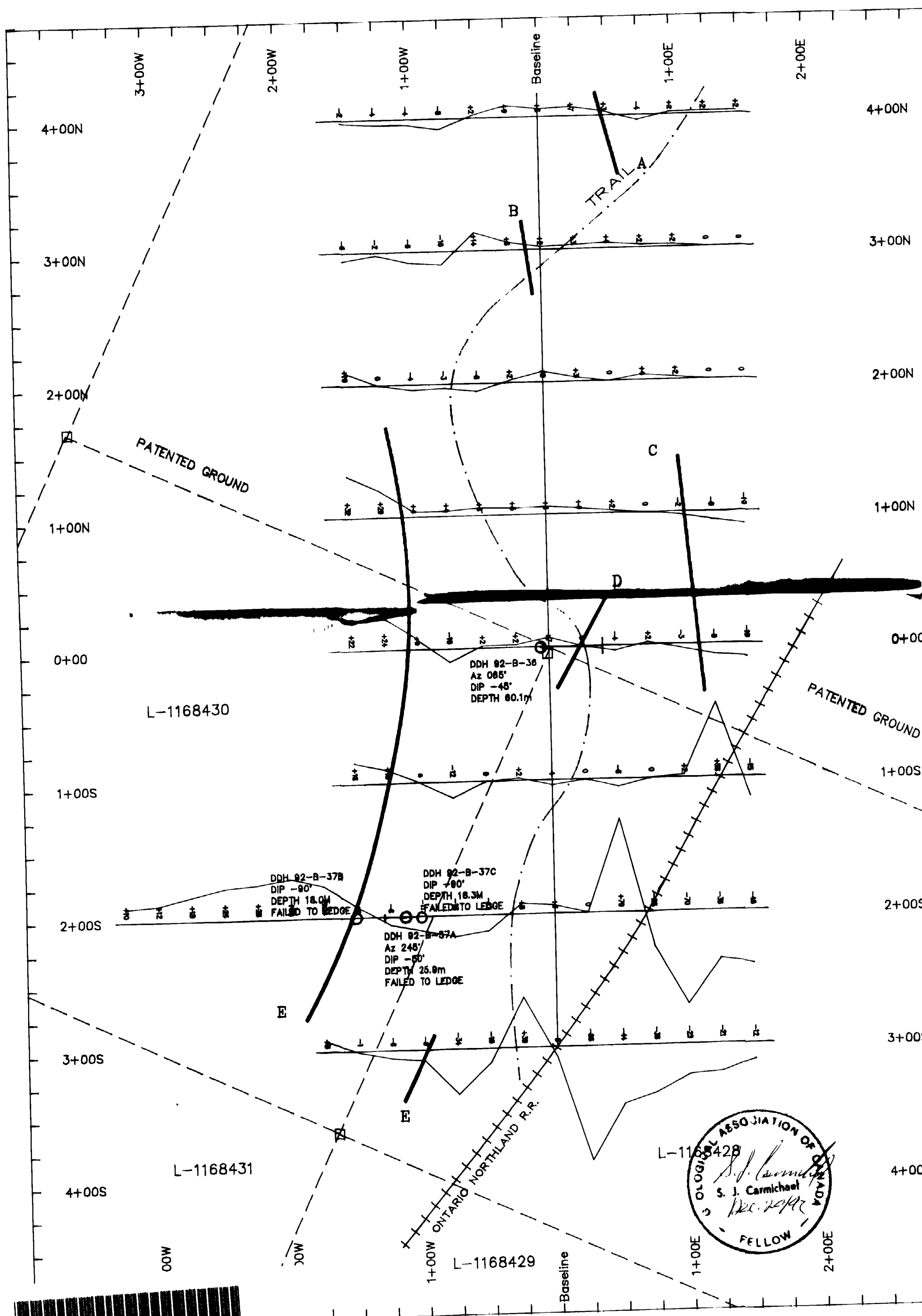
### SOUTH FARM PROSPECT



**K. SKJONSBY PROSPECT**  
 LOCATION PLAN  
 BOURKES MINE & SOUTH FARM PROSPECTS  
 BENOIT TOWNSHIP  
 DISTRICT OF COCHRANE, ONT.  
 LARDER LAKE MINING DIVISION

NTS: 42A/SF	SCALE: 1"=660 Ft.	DATE: DEC., 1992
PROJECT:	DRAWN BY: S.J.C.	DRAWING No. 1

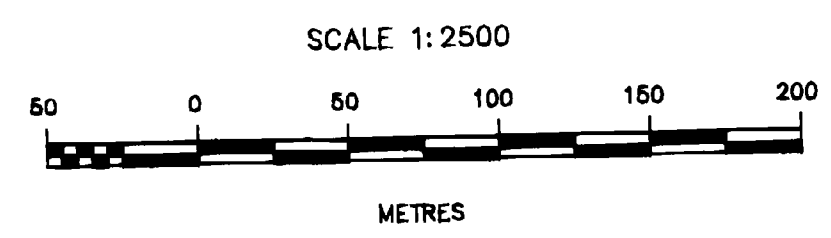




BASELINE AZIMUTH: 335°

### LEGEND

INSTRUMENT: PHOENIX VLF-2  
 STATION: ANNAPOLIS, MARYLAND, 21.4 KHZ  
 READINGS FACING NORTH  
 EAST DIP +  
 WEST DIP -  
 PROFILE SCALE: 1cm=25 DEGREES DIP  
 DIP PROFILE  
 AXIS OF ANOMALIES

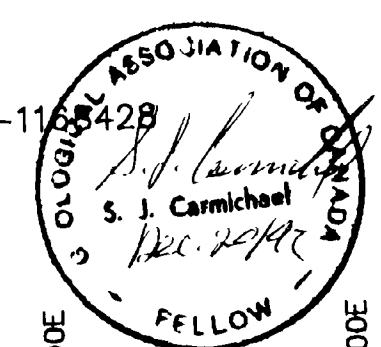


# SOUTH FARM PROSPECT

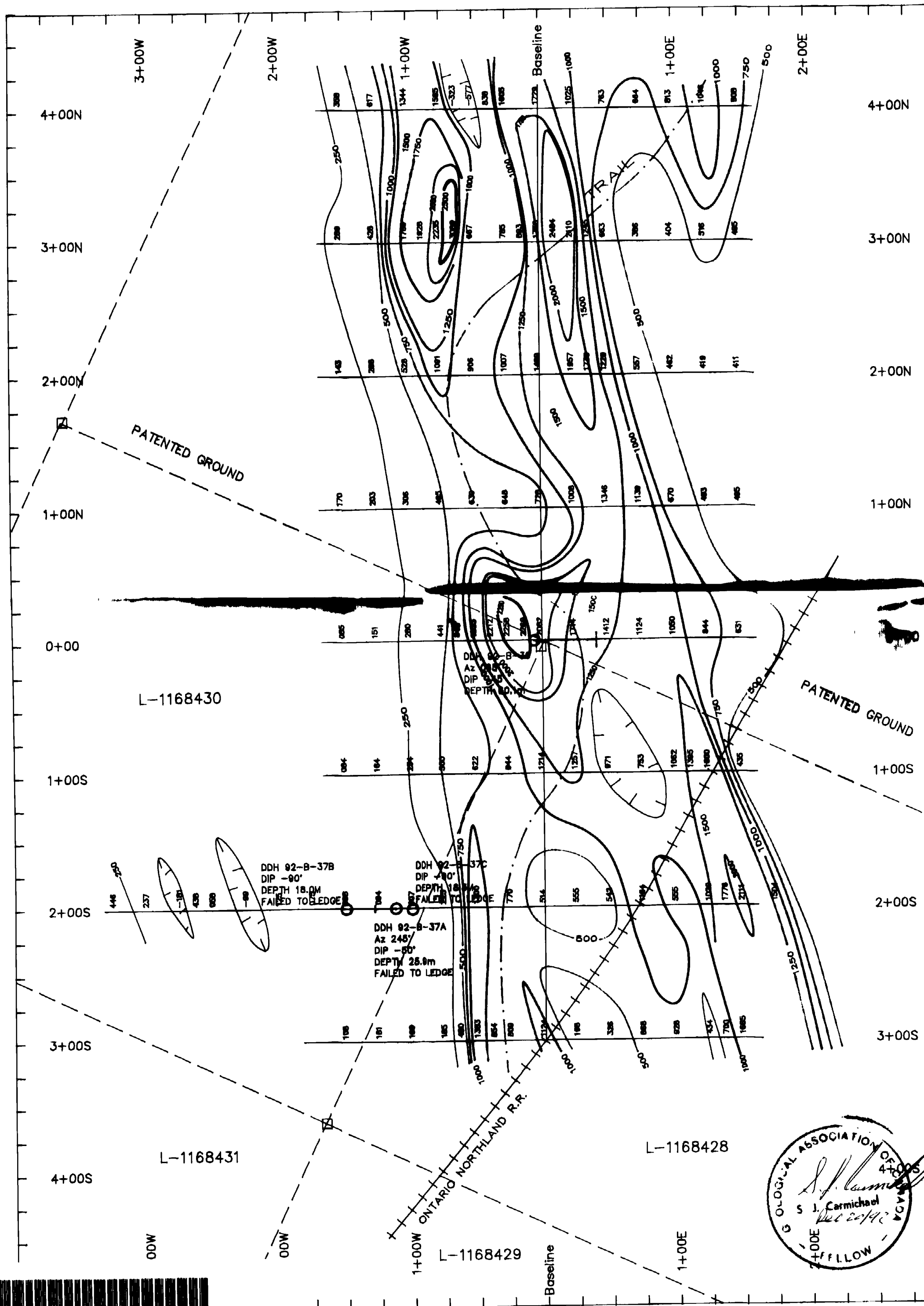
## VLF-EM PROFILES

BENOIT TOWNSHIP  
 DISTRICT OF TIMISKAMING, ONT.  
 LARDER LAKE MINING DIVISION

NTS: 42A/SE	SCALE: 1:2500 M	DATE: Dec 1992
PROJECT:	DATA BY: S. CARMICHAEL	REVISED:
		DRAWING No. 3





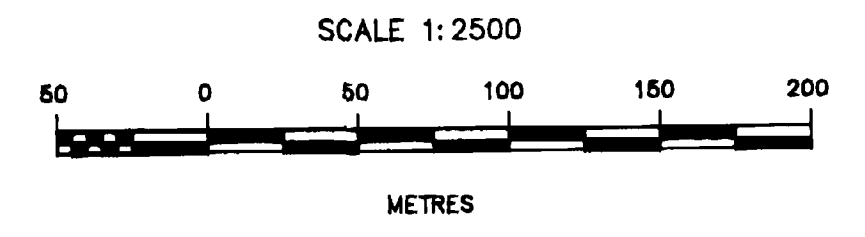


BASELINE AZIMUTH: 335'

LEGEND

INSTRUMENT: GEOMETRICS PROTON PRECISION  
MAGNETOMETER  
BASE STATION: L0+00, 0+00, SET TO  
60,082 NANO-TESLAS  
CONTOUR INTERVAL: 250 NANO-TESLAS

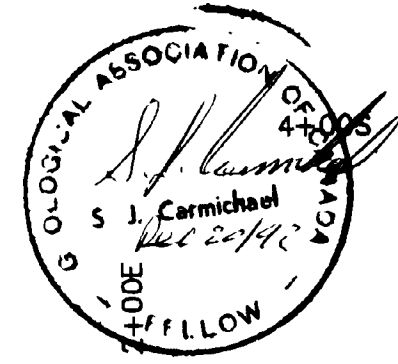
- 250 NT CONTOUR
- - - 500 NT CONTOUR
- 750 NT CONTOUR
- 1000 NT CONTOUR
- - - 1250 NT CONTOUR
- - - 1500 NT CONTOUR
- - - 2000 NT CONTOUR
- - - 2500+ NT CONTOUR
- ⊖ MAGNETIC DEPRESSION



SOUTH FARM PROSPECT

MAGNETOMETER SURVEY

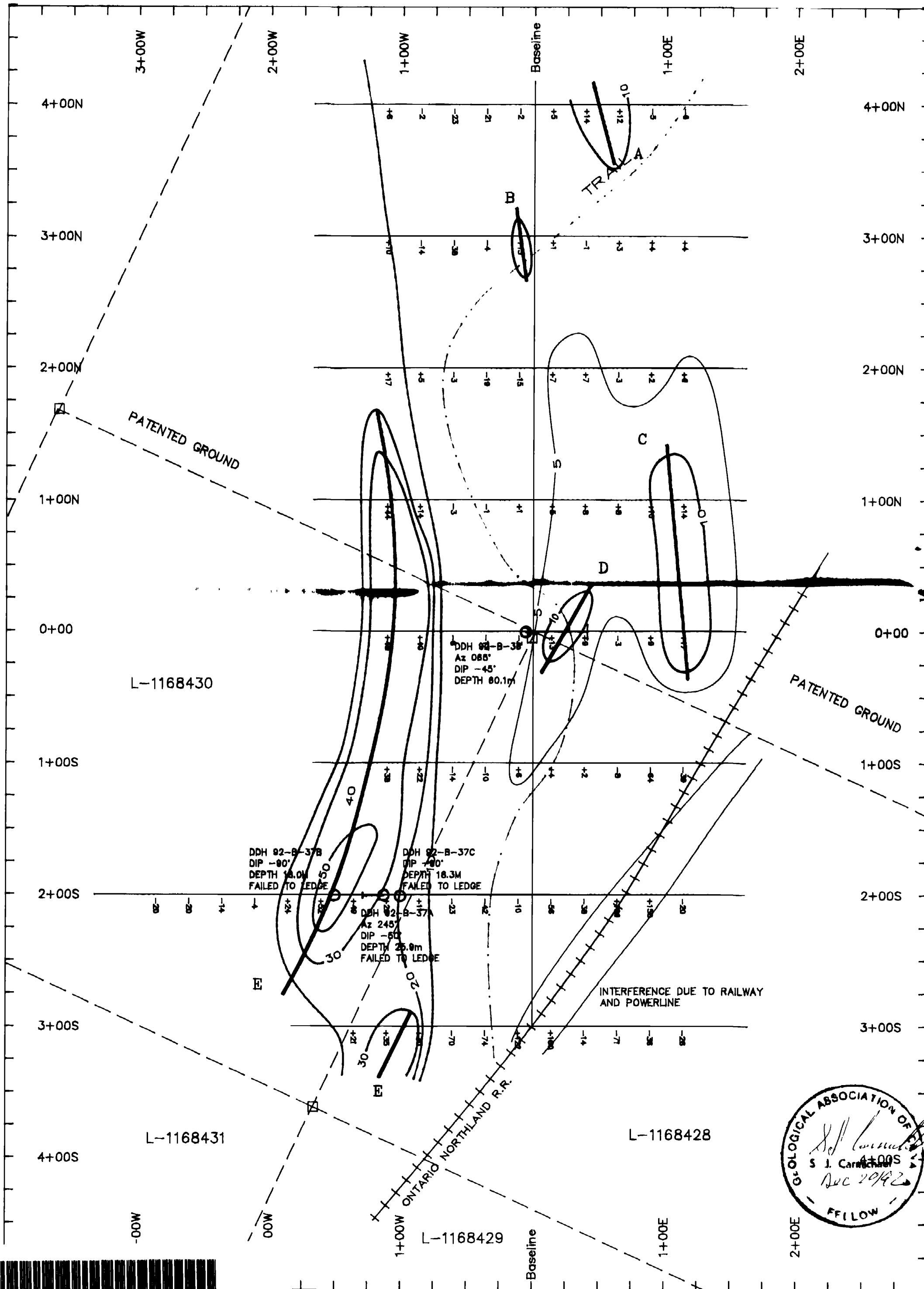
BENOIT TOWNSHIP  
DISTRICT OF TIMISKAMING, ONT.  
LARDER LAKE MINING DIVISION



NTS: 42A/SE	SCALE: 1:2500 M	DATE: Dec 1/72
PROJECT:	DATA BY: S. CARMICHAEL	REVISED:
		DRAWING No. 2



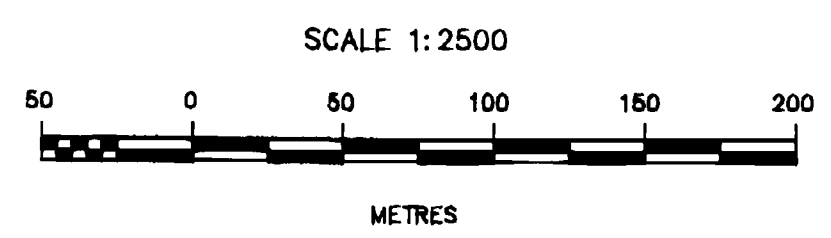
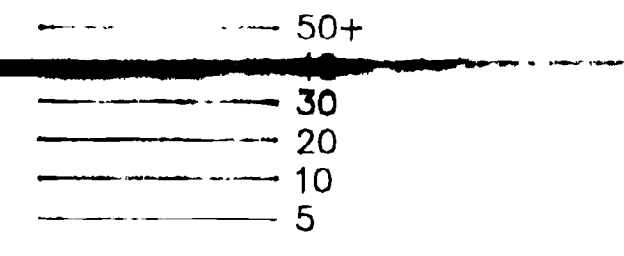




BASELINE AZIMUTH: 336°

### LEGEND

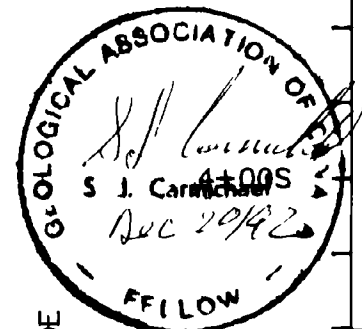
INSTRUMENT: PHOENIX VLF-2  
 STATION: ANNAPOLIS, MARYLAND, 21.4 KHz  
 CONTOUR INTERVAL=10 UNITS



## SOUTH FARM PROSPECT

VLF-EM FRASER FILTER  
 DATA

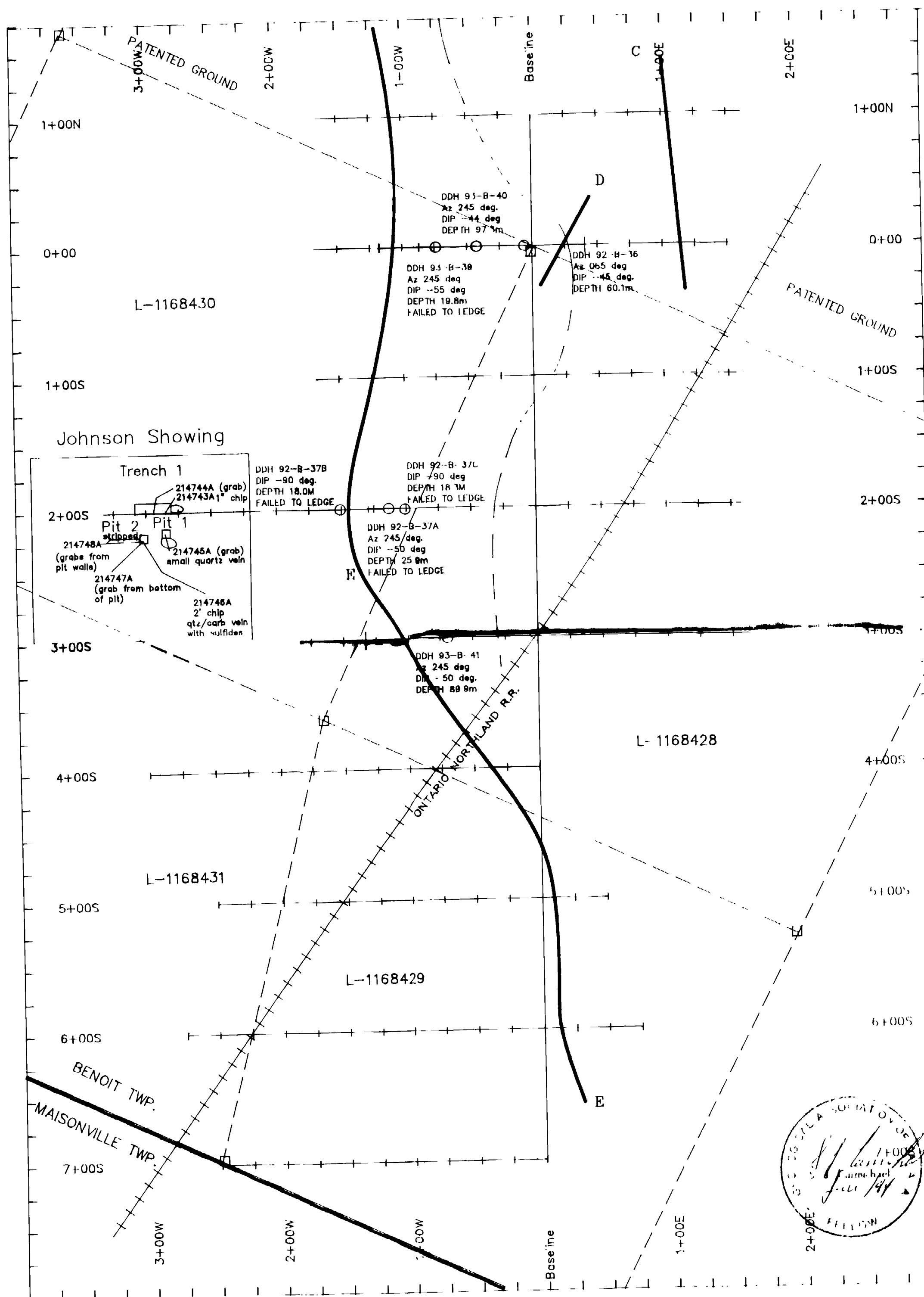
BENOIT TOWNSHIP  
 DISTRICT OF TIMISKAMING, ONT.  
 LARDER LAKE MINING DIVISION



NTS: 42A/SE	SCALE: 1:2500 M	DATE: Dec 12
PROJECT:	DATA BY: S. CARMICHAEL	REVISED:
		DRAWING No. 4



42A088E0081 OP83-227 BENOIT

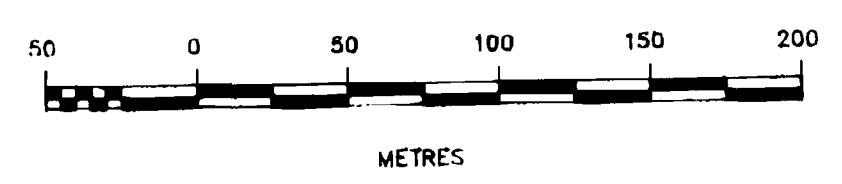


BASELINE AZIMUTH 335 DEG.

LEGEND

- ⊙ DIAMOND DRILL HOLE
- DDH 93-B-41  
Az 245 deg.  
DIP -80 deg.  
DEPTH 88.0m
- E — VLI 1'M ANOMALY
- 214744A (grab) SAMPLE LOCATION

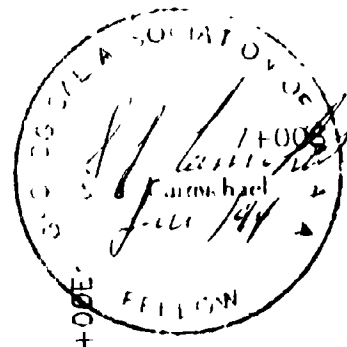
SCALE 1:2500



SOUTH FARM PROSPECT

SURFACE COMPILATION  
(1993 DRILLING AND TRENCHING)

BENOIT TOWNSHIP  
DISTRICT OF TIMISKAMING, ONT.  
LARDER LAKE MINING DIVISION



NTS 42A/SE  
PROJECT

SCALE: 1:2500 M  
DATA BY: S. CARMICHAEL

DATE: NOVEMBER, 1993  
REVISED:  
DRAWING No. 1

