



42A065E0016 2.10112 CARMAN

010

GEOLOGICAL REPORT
on the property of
GOLDEN PHEASANT RESOURCES LTD.

in
Langmuir and Carmen Townships
Porcupine Mining District
by
Arne Moore, B.Sc.

RECEIVED

JUN - 1 1987

MINING LANDS SECTION



42A065E0016 2.10112 CARMAN

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INTRODUCTION

During the first week of May, 1987 a geological mapping programme on the Golden Pheasant Resources Ltd. property in Carman and Langmuir Townships was completed by four geologists from R.S. Middleton Exploration Services Inc.

The geological survey which followed a winter programme of linecutting and geophysics was designed to produce a detailed geology map (scale 1:2,500) of the claim group, locate and prospect old gold showings and designate targets for further exploration.

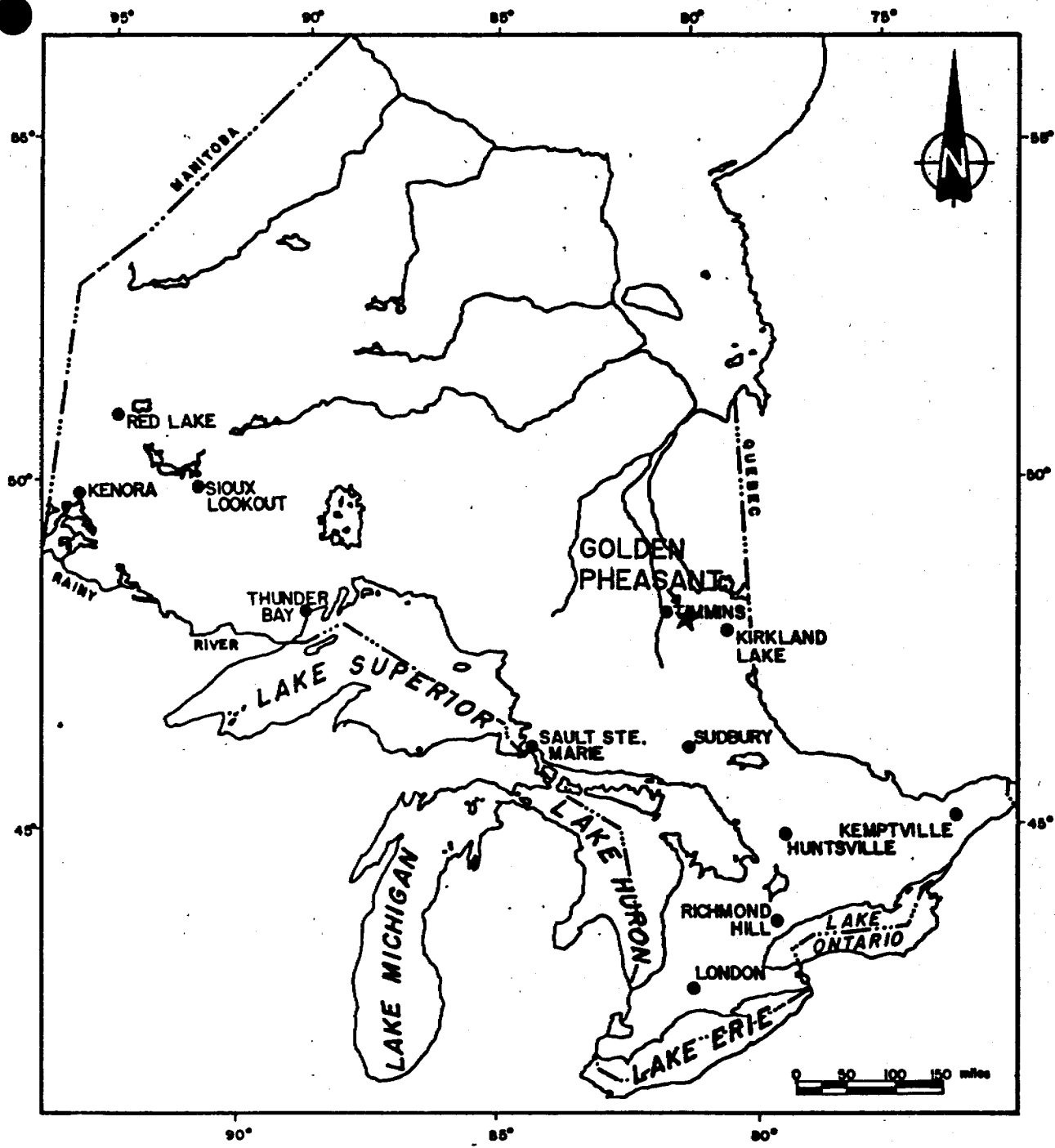
The results, along with recommendations for further work are discussed in the following report.

PROPERTY LOCATION

The property consists of twenty-five (25) contiguous mining claims straddling the boundary between Carman and Langmuir Township, Porcupine Mining Division, Timmins, Ontario. (Figure 1 and 2).

CLAIMS

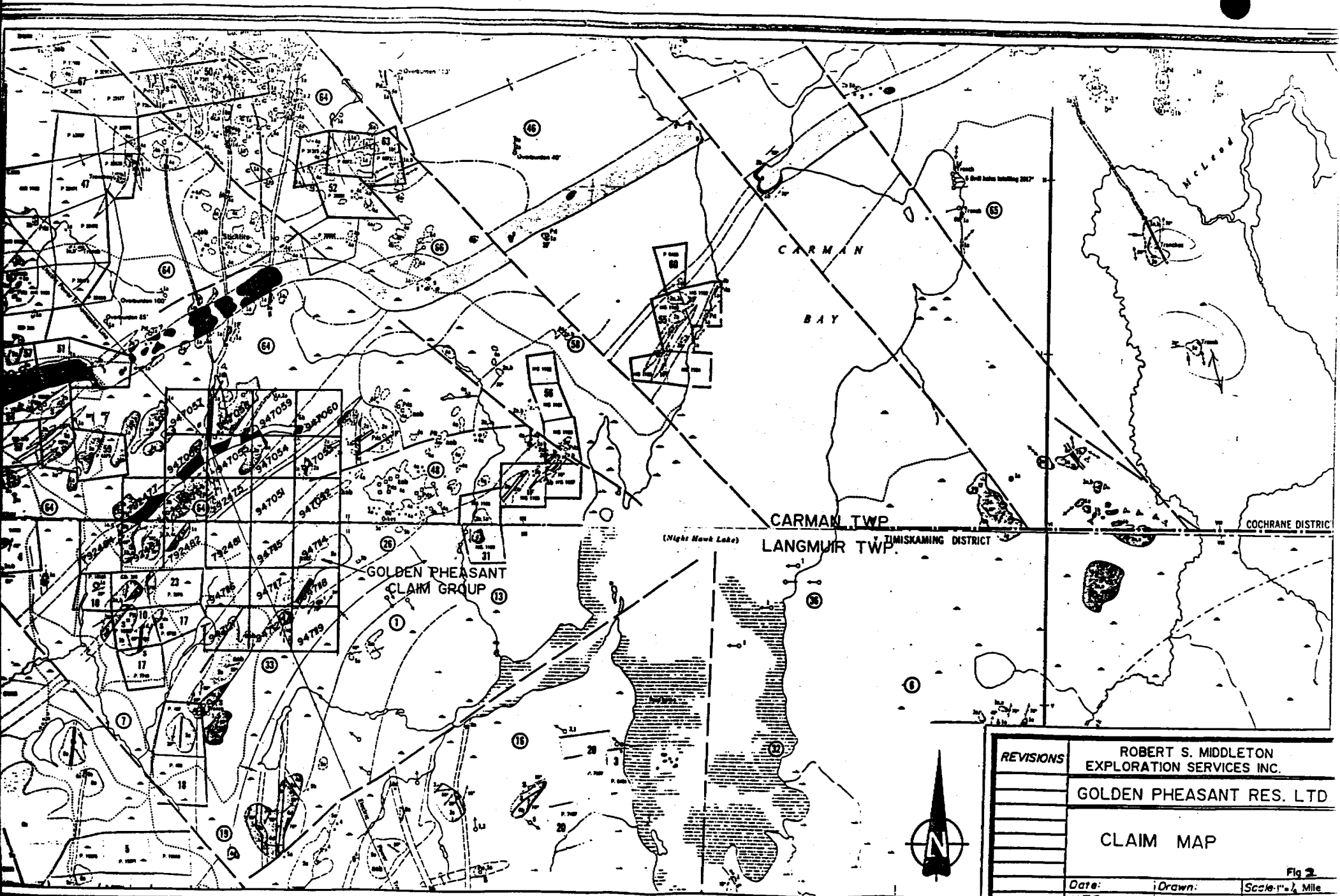
There are 25 claims in the block:



PROVINCE OF ONTARIO

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.	
	for	GOLDEN PHEASANT RESOURCES LTD.
	Title	CARMAN & LANGMUIR TWPS.
	PROPERTY LOCATION MAP	
	Date:	Scale: 1" = 160mi. N.T.S.
	Drawn:	Approved: File: M-242

Fig. 1



REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.	
	GOLDEN PHEASANT RES. LTD	
	CLAIM MAP	
	Date:	Drawn:
	N.T.S.:	Approved:
		Scale: 1" = 1/4 Mile Figure: M-242

Fig 2

<u>CLAIM NUMBERS</u>	<u>TOWNSHIP</u>	<u>NUMBER</u>	<u>RECORDING DATE</u>	<u>RECORDED HOLDER *</u>
P947051-P947060	Carman	10	September 16/86	B
P792475-P792477	Carman	3	March 12/84	A
P947114-P947121	Langmuir	8	September 16/86	B
P792481-P792484	Langmuir	4	March 29/84	A
		<u>25</u>		

* A - Mark C. Kean, 624 Cedar St. North, Timmins, Ontario

B - Golden Pheasant Resources Ltd.
 Suite 500, 455 Granville Street
 Vancouver, B.C.

ACCESS

Access to the property is by the Springer Road from South Porcupine, along the Langmuir Mine Road to a point about 1.5km from the Eldorado/Langmuir Township line. From there, two old trails lead north-east for about 1.5km to the claim group. (Figure 2).

TOPOGRAPHY AND VEGETATION

The area is mainly low, commonly swampy ground with local ridges not exceeding 40 feet in height. Vegetation in the wet muskeg is predominantly alder, black spruce and cedar. Balsam, white spruce, jack pine, poplar and white birch occupy the higher ground.

PROPERTY HISTORY

Work in the area, prior to 1960, was mainly confined to conventional prospecting and trenching of quartz veining and sulphide-bearing rock for gold mineralization. Evidence of previous drilling includes rotted logs of a drill setup and a few old core boxes - no core was found.

In 1962 the property was optioned from R. Allerston by Dumont Nickel Mines to test its base metal potential. During the diamond drilling programme carried out by Dumont, one drill hole (#11) penetrated a siliceous iron formation containing chalcopyrite and pyrite which assayed 0.67 oz Au/ton over 6 feet with values up to 1.38 oz/ton Au over 2 feet (Assessment File T-690, Timmins, Ontario).

In 1981 Rio Canex conducted VLF-EM and magnetic surveys to define the drill target which Dumont drilled in 1962. In 1982 Rio Canex drilled a magnetic high and a closely related VLF-EM conductor. Siliceous oxide iron formation containing 10% Po, 5% Py, 1% Cp, quartz veining and weakly carbonatized segments was intersected by a single diamond drill hole. No assay values were published.

Rio Canex also did a detailed geology survey of the area but it is not available on file. (Assessment File T-2454, Timmins, Ontario).

During 1985, M.C. Kean acquired the property. Work on the

claim group by the owner and J.K. Filo included cutting a grid, geological mapping, and locating a previously undocumented trench in a sheared carbonatized zone. An old drill hole collar was found 60 meters southeast of the trench. It is not known who drilled the hole. (Assessment File T-2974, Timmins, Ontario).

REGIONAL GEOLOGY

The rocks underlying the area are all of Early Precambrian in age with the exception of minor flat-lying sediments of the Cobalt Group and numerous diabase dikes. The oldest rocks consist mainly of mafic metavolcanics conformably overlain by minor felsic metavolcanics and associated metasediments.

The earliest intrusives are large sill-like ultramafic bodies. These have subsequently been folded and metamorphosed to greenschist facies metamorphic grade.

During the later periods of tectonic activity, felsic intrusions (QFP) were emplaced. Post-tectonic northeast and north trending diabase dikes cut all older Archean rocks.

TABLE OF FORMATIONS

6. Diabase
5. Felsic Intrusives
(Quartz feldspar porphyry)
4. Ultramafics
Serpentinized dunite
3. Felsic-intermediate meta-volcanics
2. Metasediments
Iron formation
1. Mafic to intermediate meta-volcanics
 - a. Basalt andesite
 - b. Andesite porphyry
 - c. Carbonatized basalt andesite

PROPERTY GEOLOGY

Although a large portion of the claim group is covered by muskeg and shallow overburden two large topographic highs provide good exposure of the underlying bedrock.

The exposed ridge to the east consists predominantly of an ultramafic intrusion. The unit was interpreted as a serpentized dunite or peridotite which has a brownish, soft weathered surface. Asbestos and magnetite are common alteration products. No significant amount of sulphides or quartz veining is apparent.

The western portion of the claim block is underlain by predominantly intermediate volcanics consisting of porphyritic

and massive varieties. Both units weather to a medium to dark grey colour and a dull medium grey to dark green on fresh surfaces. The porphyritic variety is composed of numerous light grey-weathering feldspar phenocrysts in a chloritic matrix. Carbonatized intercalated mafic flows are common. In the more massive varieties, amygdules of calcite and quartz are common.

A large east-west trending carbonatized shear zone within the porphyritic andesite occurs near the center of the grid at L0+25S/4+00W. The rock shows a brown limonitic weathered surface with sericite (?) and green carbonate (fuchsite?) mariposite (?) in minor amounts. A 2 foot wide quartz vein parallels the shearing which contains chlorite and minor pyrite.

Mafic intrusives are mainly magnetic, coarse-grained diabase. A large outcrop on L2+00S is very hard, weakly magnetic and aphanitic with a few carbonate phenocrysts. The dikes trend north and north-east; the latter cross-cut the former intrusions. Wide (up to 2 feet), hard, aphanitic chill margins occur at the contact with the surrounding metavolcanics. Occasionally these contact zones contain minor pyrite and quartz stringers.

Felsic intrusives appear as quartz-feldspar porphyries. One exposure occurs to the west at L0+00/10+00W. The porphyry appears grey to green on fresh surface and white or cream coloured on the weathered surface. On the contact, a 2 foot wide quartz vein occurs with associated carbonate and minor pyrite.

Chemical metasediments, specifically siliceous oxide facies iron formation, are exposed in two locations within the grid. One is at L1+50N/1+50W and the other is at L6+00N/9+70E. Typically they are rich in sugary quartz and chert with varying amounts of magnetite, pyrite, pyrrhotite, chalcopyrite and rusty brown limonite. Locally, chert and concordant magnetite beds are intensely folded. This is probably due to slumping of the original unconsolidated materials. Magnetite occurs in massive form and at times contains pyritic-rich layers. The sulphide minerals occur as disseminated euhedral crystals or thin fine-grained layers. Previous work indicates the centrally located iron formation to be auriferous and copper-bearing.

STRUCTURAL GEOLOGY

A major anticlinal axis, striking N70°E, is located immediately north-west of the claim group. This folding causes the rocks in the claim group to dip southeasterly. Because there are very few original textures in the mafic flows, their orientation is not easily recognized. The attitude of the shearing, however, does follow a north-easterly strike with a steep southeasterly dip. The only local folding noted occurs in the iron formation and is thought to be pre-tectonic.

Numerous joint sets, particularly in the mafic and ultramafic intrusives were observed. The attitudes were too

numerous to be recorded.

Evidence for faulting is limited. No major faults are known to occur within the claim block. The local shear zones indicate some movement but displacement is difficult to assess.

ECONOMIC GEOLOGY

Economic interest centers around the gold, copper, and silver-bearing oxide iron formations on the property. One of which is well documented in Filo's (1985) report and is referred to as the Gold Bearing Iron Formation on claim 792482. Dumont's drill hole averaged 0.67 oz/ton Au over 6 feet in a similar environment and type of mineralization as that of the Carshaw Deposit located 3km to the northwest. Although the drill tested iron formation is not exposed in the vicinity, claim number 792475 has a 25 meter wide iron formation of almost identical character. The outcrop has been pit tested and recent sampling by M. Kean produced assay values of up to 0.018 oz/ton Au. A grab sample taken from the same pit during the recent survey produced an assay value of 0.011 oz/ton Au (see Sppendix 1). There is no record of any drilling on the showing. Magnetic anomalies and a corresponding EM conductor suggests these two horizons are closely related or possibly the same unit. This would suggest a possible strike length of 500 meters. The coincident carbonatized shear zone in the vicinity may in some

way be related to the gold mineralization.

The other area that warrants further work is the iron formation on L6+00N/9+70E. The oxide facies iron formation closely resembles the one previously described. A recent grab sample contained 0.011 oz/ton Au (see Appendix 1). Although the outcrop was test pitted, there is no record of any work done in the vicinity. Magnetic data suggests a 400 meter long formation.

Other areas of economic interest may center around the pyritic quartz veins along the diabase contacts, but the potential for an economic concentration of gold is low because of the low tonnage expected from such a deposit.

CONCLUSIONS AND RECOMMENDATIONS

The Golden Pheasant Resources property in Langmuir and Carman Townships merits more exploration. Two oxide iron formations, one containing up to 1.38 oz/ton Au over 2 feet should be tested further. With the Carshaw deposit 3km away, containing 167,000 tons grading 0.205 oz/ton Au (Filo, 1985) a closer look at these showings is warranted.

To test the oxide iron formation further, the following steps should be considered:

1. Acquire more ground to the northeast to cover the iron formation to the east. Minimum of four claims.
2. Detailed magnetic survey over the two iron formations to outline their limits.
3. Detailed geological mapping (scale: 1:1000) of the two iron formations and related carbonatized shear zone.
4. Continue the I.P. survey on the north and east sections of the grid to delimit the iron formations.
5. Diamond drill the iron formations to test at depth.

Respectfully submitted

Arne Moore

Arne Moore, B.Sc.

BIBLIOGRAPHY

DUMONT, E.H.
1962

Dumont Nickel Corp. Allerston
Property: Unpublished
Assessment File (T-690)
Timmins, Ontario

FILLO, J.K.
1985

Geological Report on the MK Gold
Prospect in Langmuir and Carman
Townships, Unpublished
Assessment File (T-2974)
Timmins, Ontario

HODGES, D.G.
1987

A report on the Total Field
Magnetics Survey on the Carman
and Langmuir Townships Property
of Golden Pheasant Resources Ltd.
Porcupine Mining Division.

LEAHY, E.H.
1971

Geology of the Night Hawk Lake area,
District of Cochrane: Ontario
Department of Mines and Northern
Affairs, GR 96, 74p.
Accompanied by Map 2222,
scale 1 inch to 1/2 mile.

PYKE, D.R.
1970

Geology of Langmuir and Blackstock
Townships, District of Timiskaming:
Ontario Department of Mines and
Northern Affairs, GR 86, 65p
Accompanied by Map 2206
scale 1 inch to 1/2 mile

RIO TINTO EXPLORATION

1982

Unpublished Assessment File
Timmins, Ontario (T-2454)

CERTIFICATION

I, Arne G. Moore, B.Sc. of Timmins, Ontario certify that:

- 1) I am a graduate of Laurentian University, Sudbury, Ontario with a B.Sc. degree in Geology obtained in 1984.
- 2) I have been practicing my profession in Canada since 1984.
- 3) I have no direct or indirect interest in the properties, leases or securities of Golden Pheasant Resources Limited, nor do I expect to receive any.

Dated this May 15, 1987

TIMMINS, Ontario

Arne Moore

Arne G. Moore, B.Sc.

A P P E N D I X 1

ASSAYS

<u>SAMPLE NUMBER</u>	<u>DESCRIPTION</u>	<u>GRID LOCATION</u>	<u>PPB AU</u>
120751		L13+15N/6+85E	4
120752		L4+95S/6+90E	8
120753	BIF	L5+25N/8+70E	380
120754	BIF (altered)	L5+25N/8+70E	23
120755	BIF (altered)	L6+00N/9+65E	40
120756	GOSSAN - INTERMEDIATE VOLCAINC	L9+20N/10+25E	10
120757	CARBONATIZED SHEAR, 1% PY	L0+58N/1+63W	63
120758	CARBONATIZED SHEAR; PY, SERICITE, FUCHSITE	L0+37S/3+80W	62
120759	QUARTZ VEIN, CHLORITIC, CARBONATE, PYRITE	L0+37S/3+80W	6
120760	BIF, 7% PYRITE	L1+25N/2+00W	23
120761	DIABASE/ INTERMEDIATE VOLCANIC CONTACT	L7+75N/1+36W	14
120762	BIF, 2% PYRITE	L1+50N/1+50W	26
120763	BIF, 15% PYRITE (FROM PIT)	L2+00N/1+50W	381
120764	INTERMEDIATE VOLCANIC 1-2% PYRITE	L2+00N/4+00W	11
120765	FELSIC VOLCANIC, 1-2% PYRITE	L2+00N/9+50W	17
120766	QFP; 1% PYRITE	L5+25N/2+25W	8



42A065E0016 2.10112 CARMAN

Mining

900

11/8/87

Type of Survey(s) GEOLOGICAL	Township or Area CARMAN / LANGMUIR
Claim Holder(s) GOLDEN PHEASANT RESOURCES / MARK C. KEAN	Prospector's Licence No. T-4781 / M-21054
Address SUITE 500, 455 GRENVILLE ST. VANCOUVER, B.C. V6C 1V2 / 624 CEDAR NORTH TIMMINS, ON.	
Survey Company ROBERT S. MIDDLETON EXPLORATION SERVICES INC.	Date of Survey (from & to) Day Mo. Yr. 01 05 87 07 05 87
Name and Address of Author (of Geo-Technical report) ARNE MOORE, BOX 1637, TIMMINS, ON. P4N 7W8	
Total Miles of line Cut 33.0	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	20
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	Other	
	Geological	
	Geochemical	

Airborne Credits	SECTION	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

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JUN 29 1987

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	947051		P	792476	
	947052			792477	
	947053				
	947054				
	947055				
	947056				
	947057				
	947058				
	947059				
	947060				
	947114				
	947115				
	947116				
	947117				
	947118				
	947119				
	947120				
	947121				
	792481				
	792482				
	792483				
	792484				
	792475-713 (map needed)				

RECORDED
MAY 29 1987

Expenditures (excludes power stripping)

Type of Work Performed

Calculation of Expenditure Days Credits

Total Expenditures \$ + 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date **May 28/87** Recorded Holder or Agent (Signature) **J.W. Newsome**

For Office Use Only

Total Days Cr. Recorded **493** Date Recorded **May 29/87** Mining Recorder **[Signature]**

Date Approved as Recorded **87/07/07** Branch Director **[Signature]**

Total number of mining claims covered by this report of work. **25**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
J.W. NEWSOME, BOX 1637, TIMMINS, ON. P4N 7W8

Date Certified **MAY 28/87** Certified by (Signature) **J.W. Newsome**

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
560-36740	M-37/81	13/10/83	M.+S.	108511
Re-opened NRO 36 85				

R2 Application pending under P.L.A. - surface rights withdrawn

NOTES

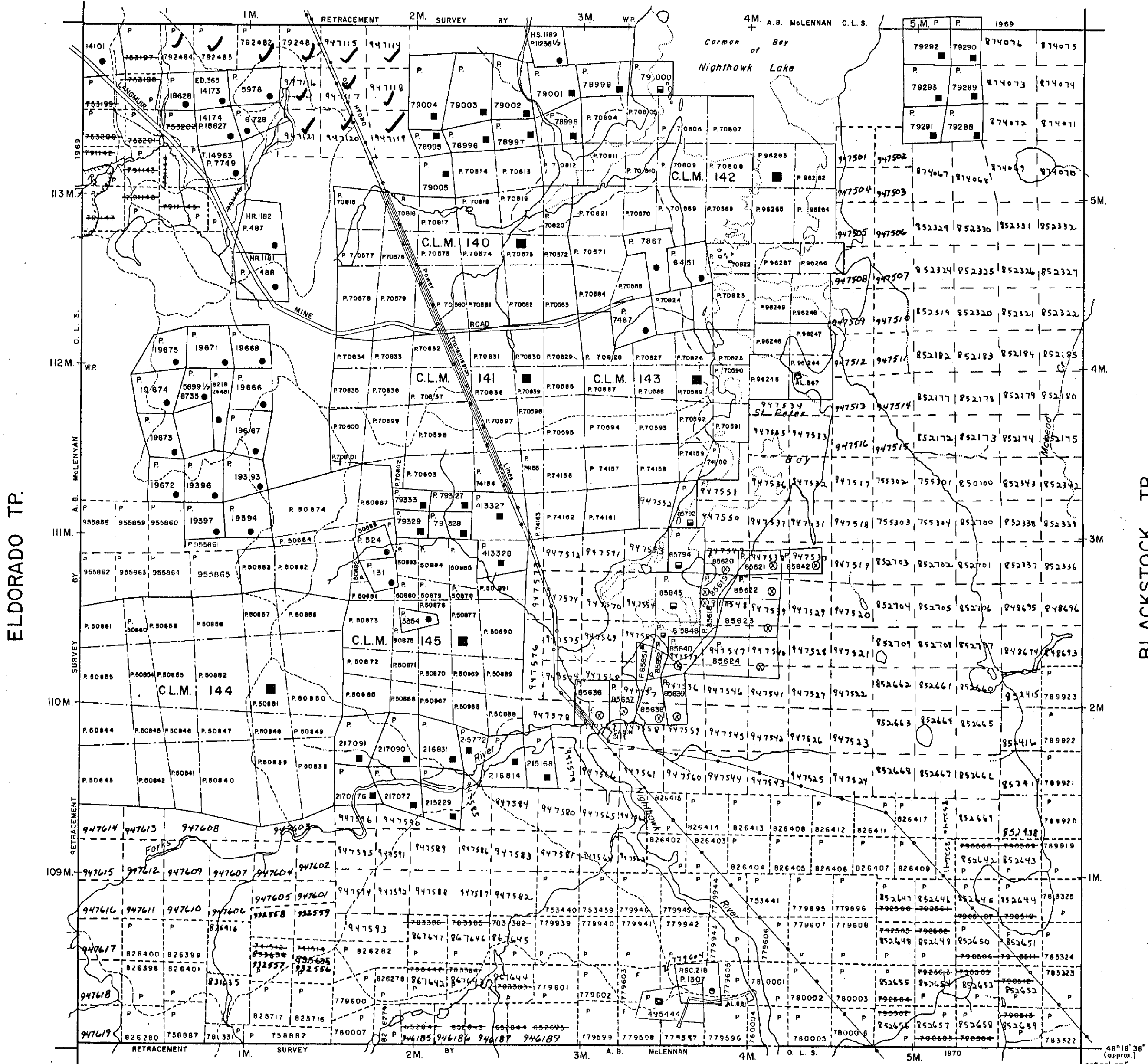
THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY OF THE CITY OF TIMMINS.

FLOODING RIGHTS ON NIGHTHAWK LAKE TO THE CONTOUR ELEVATION 903.5' RESERVED TO ONT. HYDRO.



200

CARMAN TP.



FALLON TP.

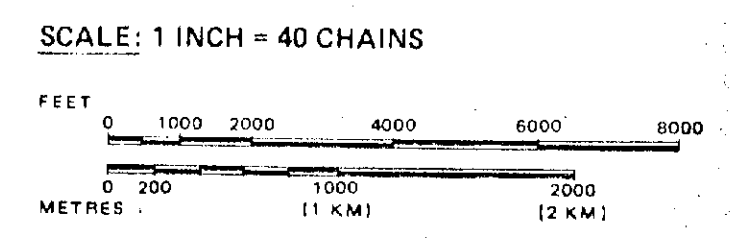
LEGEND

- 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	
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.



TOWNSHIP

LANGMUIR

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

Ministry of Natural Resources
Land Management Branch

Date MARCH, 1985
Number G-3226

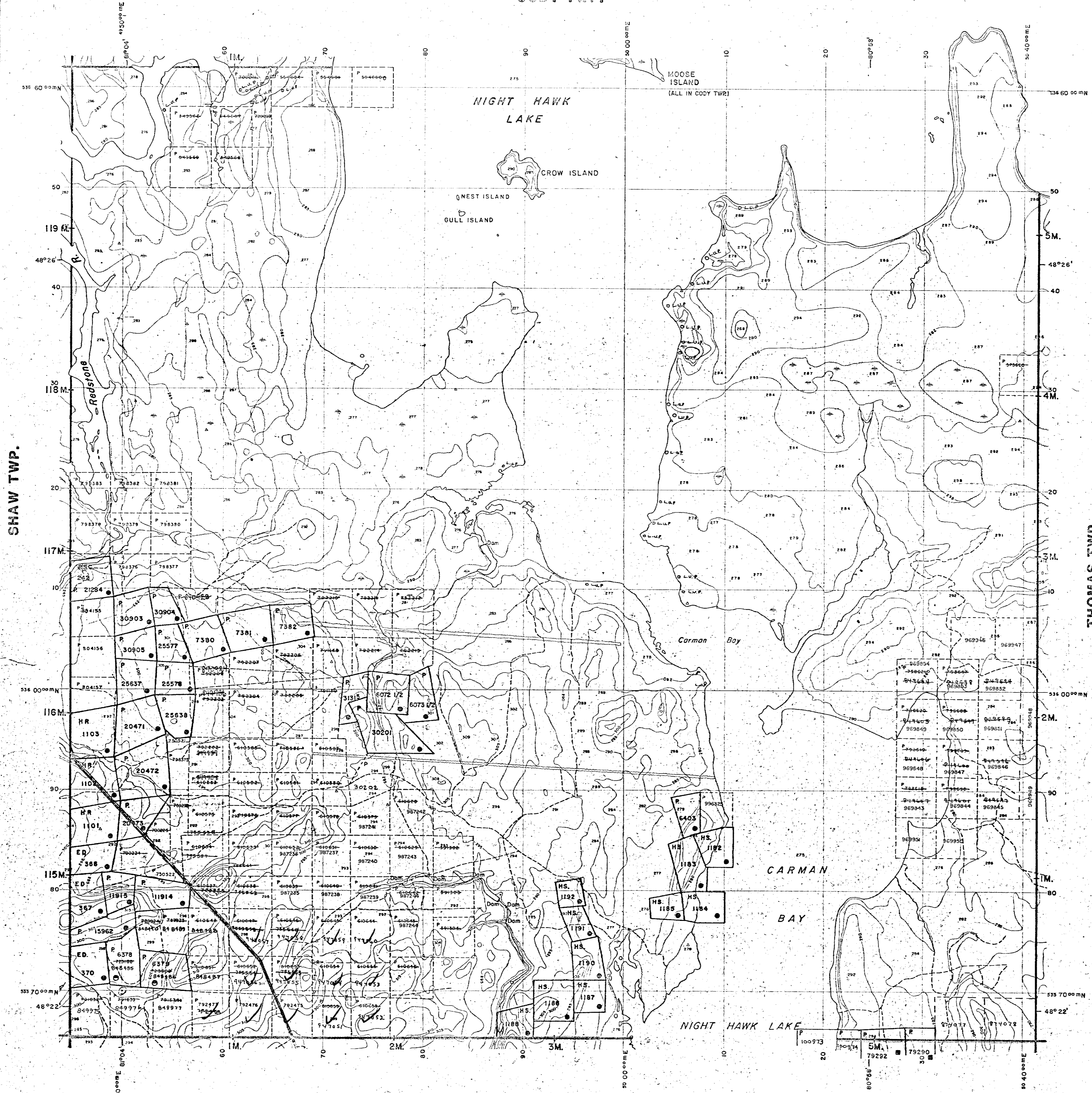
MAP SYMBOLOLOGY

Hot Cables	Pipeline (above ground)
Boundary	Railroad
International	Single Track
National, Township, County, Reserve	Double Track
Abandoned	Abandoned
Telephone	Turbine
Lot, Concession, Agricultural	Road
Post Boundary	Highway, County
Bridge	Access (road or railway)
Road, Railroad	Trail, Back Road (barrage alley)
Building	Rapids
Chimney	Cable line river with multiple rapids
Cliff, Pit, Pile	Double line river with multiple rapids
Contours	Reservoir
Interpretation	River, Stream, Canal
Approximate	Approximate
Control Points	Structure of Dam
Approximate	Lock
Vertical	Spot Elevation (true elevations)
Culvert	Tower
Falls	Transmission Line
Double line river	Pylon
Fence, Hedge, Wall	Tunnel
Feature Outline (construction features, etc.)	Utility Poles
Flooded Land	Wharf, Dock, Pier
Lock	Wooded Area
Marsh or Swamp	
Nest	
Mine Head Frame	
Outcrop	

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

CODY TWP.



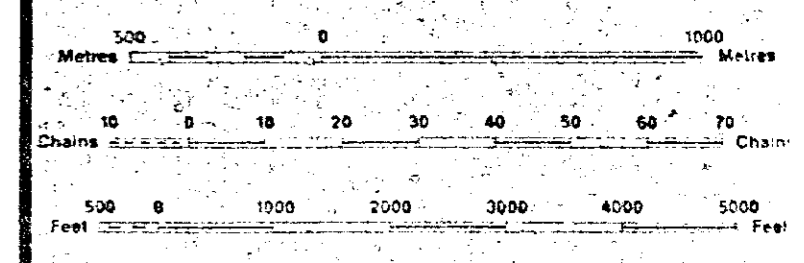
LEGEND

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 MUSKOG	
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.



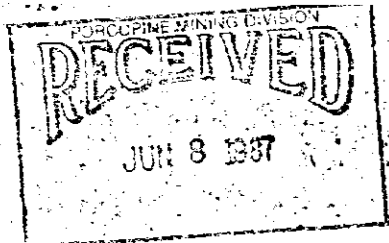
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GRID ZONE: 17

SHAW TWP.

THOMAS TWP.



210



Rec'd Jan 23/85

TOWNSHIP
CARMAN

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS

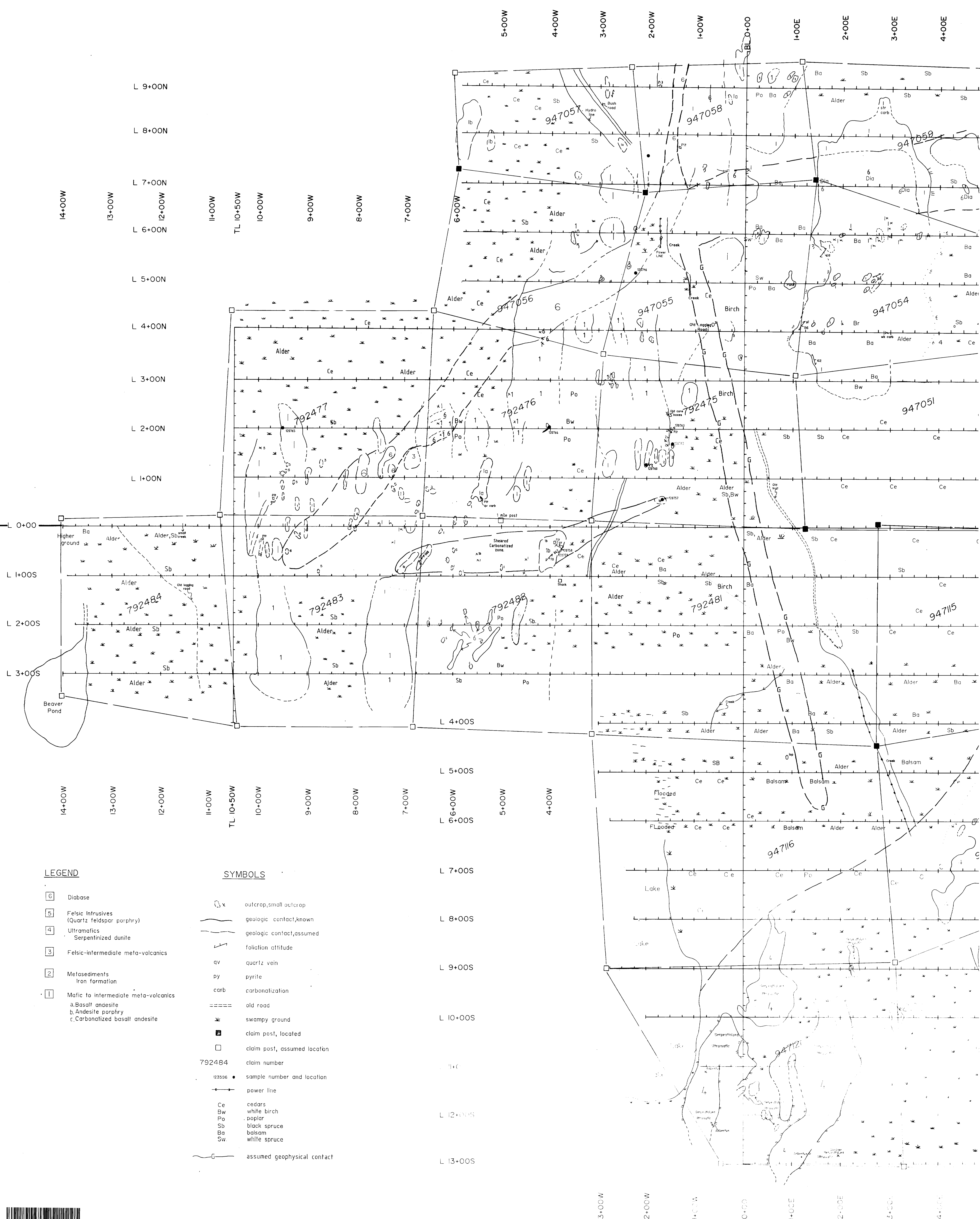
MINING DIVISION
PORCUPINE

LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
Land Management Branch
Ontario

ORIGINAL COMPILED: JULY 1984
REVISION: **G-4000**

LANGMUIR TWP.

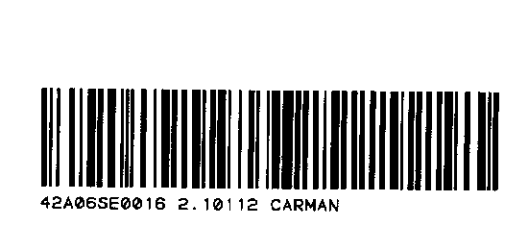


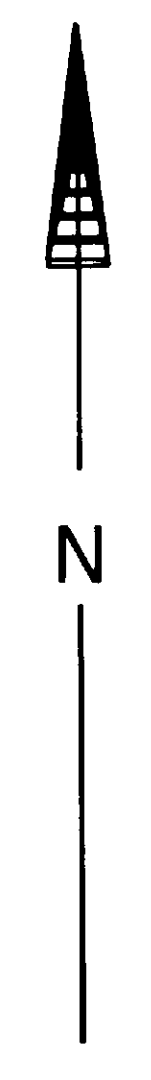
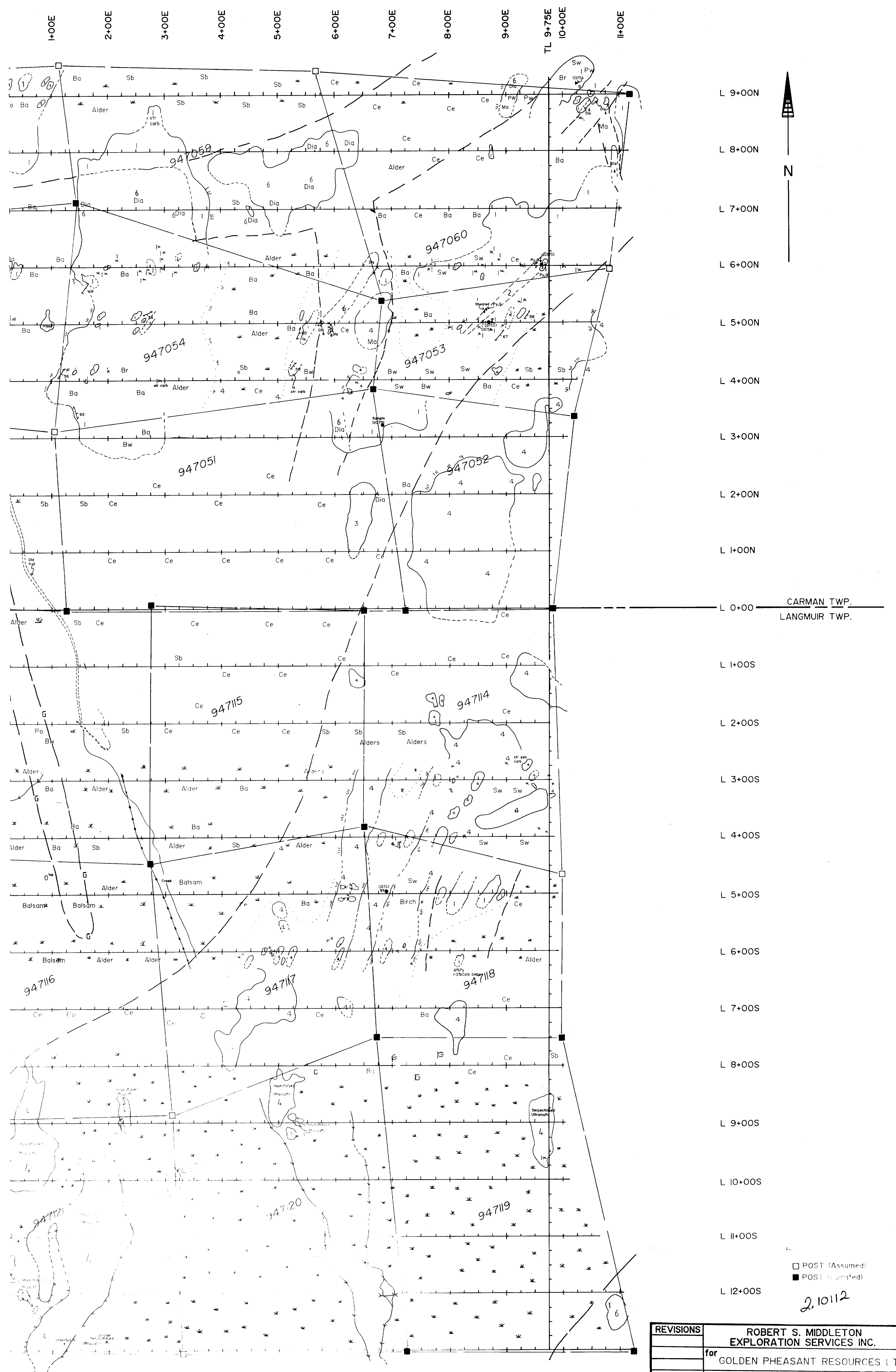
LEGEND

- 6 Diabase
- 5 Felsic Intrusives (Quartz feldspar porphyry)
- 4 Ultramafics Serpentinized dunite
- 3 Felsic-intermediate meta-volcanics
- 2 Metasediments Iron formation
- 1 Mafic to intermediate meta-volcanics
 - a. Basalt andesite
 - b. Andesite porphyry
 - c. Carbonatized basalt andesite

SYMBOLS

- x outcrop, small outcrop
- geologic contact, known
- - - geologic contact, assumed
- ↗ foliation attitude
- qv quartz vein
- py pyrite
- carb carbonatization
- ==== old road
- * swampy ground
- claim post, located
- claim post, assumed location
- 792484 claim number
- 23596 • sample number and location
- power line
- Ce cedars
- Bw white birch
- Po poplar
- Sb black spruce
- Ba balsam
- Sw white spruce
- - - assumed geophysical contact





L 0+00 — CARMAN TWP.
LANGMUIR TWP.

□ POST (Assumed)
■ POST (Confirmed)
2.10112

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	GOLDEN PHEASANT RESOURCES LTD.	
	Title	GEOLOGY MAP	
	Drawn:	P.G. D.M.	
	Date:	April 87	Scale: 1:2500
	Approved:		N.T.S.
	File:	M-242	