

42A10SW8975 2.8186 GERMAN

010

RECEIVED
JUN 05 1985
MINING LANDS SECTION

COMSTATE RESOURCES LTD.

Geological Report

on

Claims P. 743377 - P. 743380

South Half, Lot 1, Concession 1

German Township

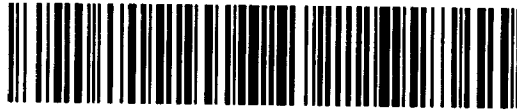
Porcupine Mining Division

Timmins, Ontario

June, 1985

D.R. Pyke, Ph.D.

1985



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Introduction

This report covers a geological survey carried out by Comstate Resources Ltd. over four claims in southeast German Township, about 25 miles east-northeast of the city of Timmins. The claim numbers and locations are as follows:

P. 743377	NW $\frac{1}{4}$, S $\frac{1}{2}$, Lot 1, Concession 1
P. 743378	SW $\frac{1}{4}$, S $\frac{1}{2}$ Lot 1, Concession 1
P. 743379	SE $\frac{1}{4}$, S $\frac{1}{2}$ Lot 1, Concession 1
P. 743380	NE $\frac{1}{4}$, S $\frac{1}{2}$ Lot 1, Concession 1

Access

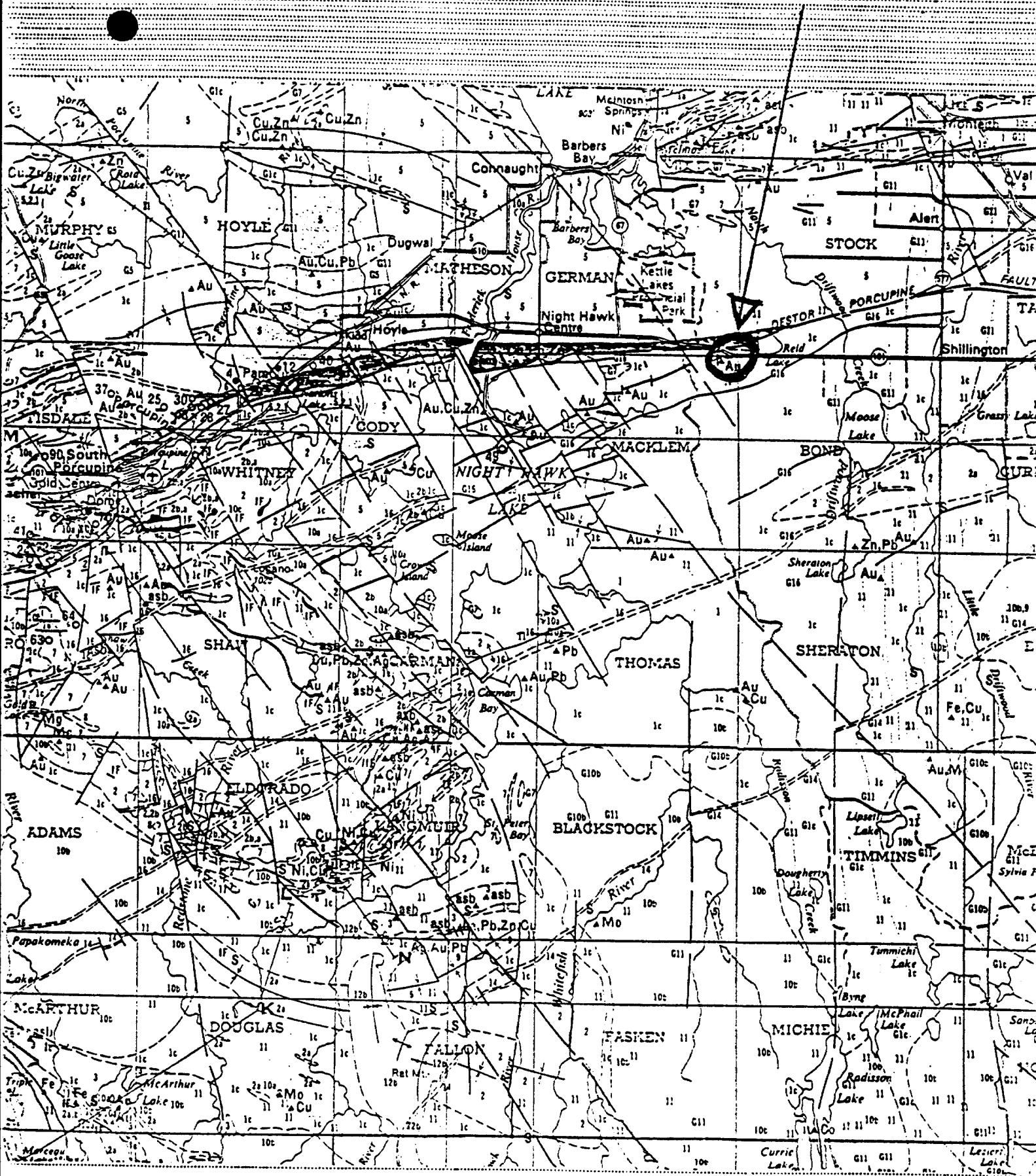
Access to the claim group is excellent, as Highway 101 traverses its southern margin.

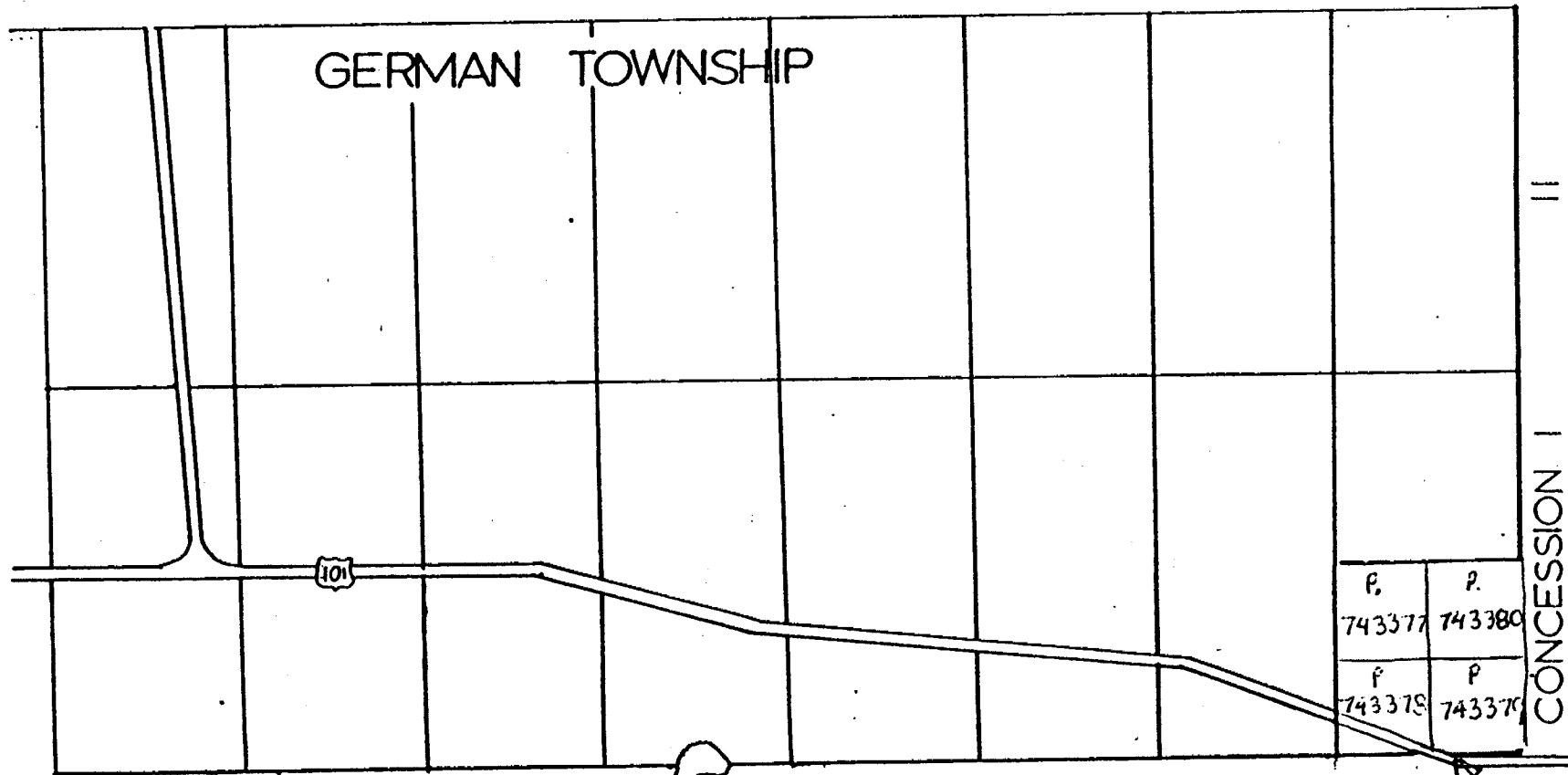
Previous Work

German Township was first geologically mapped by Laird (1931) as part of an investigation of the German - Currie area. Subsequently, a compilation map was produced by Satterly (1959). Leahy (1971) mapped the Night Hawk Lake area, which includes the area immediately south of German Township.

In 1964, Hollinger Consolidated Gold Mines Limited completed two diamond drill holes in the southwest quarter of the claim group, for a total of 937 feet (File T-786)*. Both holes intersected serpentinite and talc-chlorite schist. No assay values were reported. In 1974, Hollinger

LOCATION OF GERMAN-1 CLAIM GROUP





Location Map

S $\frac{1}{2}$ of Lot 1, C. I

MACKLEM TWP.



D. R. PYKE Property
 German Twp.
 Scale: 1" - 40 Chains.

1 inch = 40 chains

D. Pyke

APRIL

CLAIM GROUP

LOT 1

CONCESSION I
 CONCESSION II

STOCK TWP.

GERMAN TOWNSHIP

8

7

6

5

4

3

2

Mines put down another drillhole, 1141 feet in length, in the northwest quarter of the claim group (File T-1627)*. The hole intersected conglomerate over its entirety; again, no assay values were reported.

In August of 1980, D.R. Pyke and Associates carried out a geochemical survey over the claim group. Several very weak gold anomalies were outlined in the humus horizon.

In July of 1984, Exsics Exploration Limited completed a magnetometer survey over the claim group, for Comstate Resources.

Regional Geology

Outcrop in the area is extremely sparse. However, a major east-west trending fault structure, the Destor - Porcupine Fault, is interpreted to extend across the extreme southern portion of German Township (O.D.M. Map 2205). The fault forms the southern boundary of a thick (up to one mile) succession of quartz-rich fluviatile sediments of the Upper Porcupine Group. Ultramafic flows of the Tisdale Group, which are often extensively carbonatized, occur south of the Destor-Porcupine Fault.

Present Survey

The present survey was conducted by Comstate Resources personnel during the period August 27-28, 1984. Geological mapping was carried out along north-south picket lines cut at 200 foot intervals across the extent of the property.

Survey Results

Topography

The eastern half of the claim group is extensively covered by sequences of clay and silt. The southeastern portion of the area is largely farm field and the north-eastern quarter is wooded, primarily containing balsam, spruce, poplar, alder and ash.

The western portion of the claim group is sand covered and forms part of an esker complex extending westerly through Kettle Lakes Provincial Park. These sandy areas support a good growth of jack pine, spruce and occasional cedars. Small creeks traverse the western portion of the claim group, forming narrow elongate areas of wet muskeg and dense cedar-tamarack growth.

Property Geology

Grid mapping indicates that no outcrop occurs on the claims. However, the Destor-Porcupine fault is interpreted to extend through the southern portion of the property. Two diamond drill holes drilled by Hollinger Mines intersected the Fault zone, and encountered variably carbonatized and pyritized talc-chlorite serpentine schist (File T-786). Quartz veining is reported in some sections.

Well bedded, quartz rich, polymictic paraconglomerates occur north of the fault, as indicated by Hollinger drilling. Green chloritic, green fucshitic, quartz and cherty pebbles,

and, more rarely, one inch pyrite and pyrrhotite fragments are reported clast types. Quartz, albitite and ankerite stringers occur, but are not abundant.

Previous magnetic surveys by Comstate Resources Ltd. indicate that the Destor-Porcupine fault strikes in a west-northwest direction and shows a left-hand displacement of approximately 400 feet in the vicinity of line 600 West. The area of high magnetic susceptibility along the southern portion of the claim group is interpreted to be underlain by ultramafic rocks; the area of low magnetics to the north is interpreted to be underlain by sedimentary rocks. This is supported by the previous drilling of Hollinger Mines Ltd.

Recommendation for Further Work

It is recommended that further work on the property should include reverse-circulation overburden drilling along the length of the southern part of the property to further explore the gold potential of the Destor-Porcupine Fault Zone and adjacent rocks occurring in this vicinity.

AT/ke

References

Laird, H.G.

1931: German-Currie Area, District of Cochrane; Ont. Dept. of Mines, Vol. 40, pt 3., p. 1-22.

Leahy, E.J.

1971: Geology of the Night Hawk Lake area, District of Cochrane; Ont. Dept. of Mines and Northern Affairs, GR. 96, 74 p. Accompanied by Map. 2222, Scale 1 inch to $\frac{1}{4}$ mile.

Satterly, J.

1959: German Township; Ont. Dept of Mines; Preliminary Map P. 37. Scale 1 inch to $\frac{1}{4}$ mile.



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900

Mining Lands Section

File No 2.8186

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

< German >

L.D. Lgd.

Dennis K.

Signature of Assessor

June 17/85

Date



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

19/85
28186

- Instructions: - Please type or print. *July 23rd*
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Mining Act

Type of Survey(s) GEOLOGICAL	Township or Area German Twp
Claim Holder(s) COMSTATE RESOURCES LTD	Prospector's Licence No. T-1127
Address # 901, 1015 4th St. S.W. CALGARY ALTA T2R 1J4	
Survey Company COMSTATE RESOURCES LTD	Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 27 08 84 28 08 84
Name and Address of Author (of Geo-Technical report) D. R. PYKE P.O. Box 1142 TIMMINIS ONT P4N 7H9	
Total Miles of line Cut 8 miles	

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

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

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

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

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	743377				
	743378				
	743379				
	743380				

RECEIVED
JUN 17 1985
MINING LANDS SECTION

RECORDED
1 JUN 1985
Receipt No. *ef*

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

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.

Total number of mining claims covered by this report **4.**

For Office Use Only

Total Days Cr. Recorded 160	Date Recorded June 3/85	Mining Recorder <i>[Signature]</i>
Date Approved 6.6.85	Recorded <i>[Signature]</i>	Director <i>[Signature]</i>

Date **June 3/85** Recorder, Holder or Agent (Signature) *[Signature]*

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
D. R. PYKE P.O. Box 1142 Timmins Ont P4N 7H9

Date Certified **June 3/85** Certified by (Signature) *[Signature]*

1985 06 10

File: 2.8186

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We received reports and maps on June 5, 1985 for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 743377, et al, in the Township of German.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

A. Barr:mc

cc: D. Pyke
P.O. Box 1142
Timmins, Ontario
P4N 7H9

cc: Comstate Resources Ltd
Suite 901
1015 4th Street S.W.
Calgary, Alberta
T2R 1J4



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological
Township or Area GERMAN
Claim Holder(s) COMSTATE RESOURCES LTD
Survey Company COMSTATE RESOURCES LTD
Author of Report D. R. PYKE
Address of Author P.O. Box 1142 TIMMINS ONT
Covering Dates of Survey JUNE/84 - JUNE 85
(If recutting to office)
Total Miles of Line Cut 8 miles

MINING CLAIMS TRAVERSED
List numerically

P 743377
(prefix) (number)
P 743378
P 743379
P 743380

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> <u>per claim</u>
ENTER 40 days (includes line cutting) for first survey.	Geophysical -Electromagnetic _____ -Magnetometer _____ -Radiometric _____
ENTER 20 days for each additional survey using same grid.	-Other _____ Geological _____ Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: June 3/85 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 23899

Previous Surveys

File No.	Type	Date	Claim Holder

RECEIVED
JUN 05 1985
MINING LANDS SECTION
TOTAL CLAIMS 4

OFFICE USE ONLY

If space insufficient, attach list

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey Geological

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) PICKET LINES ESTABLISHED AT 200 FT INTERVALS WERE USED FOR MAPPING CONTROL

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

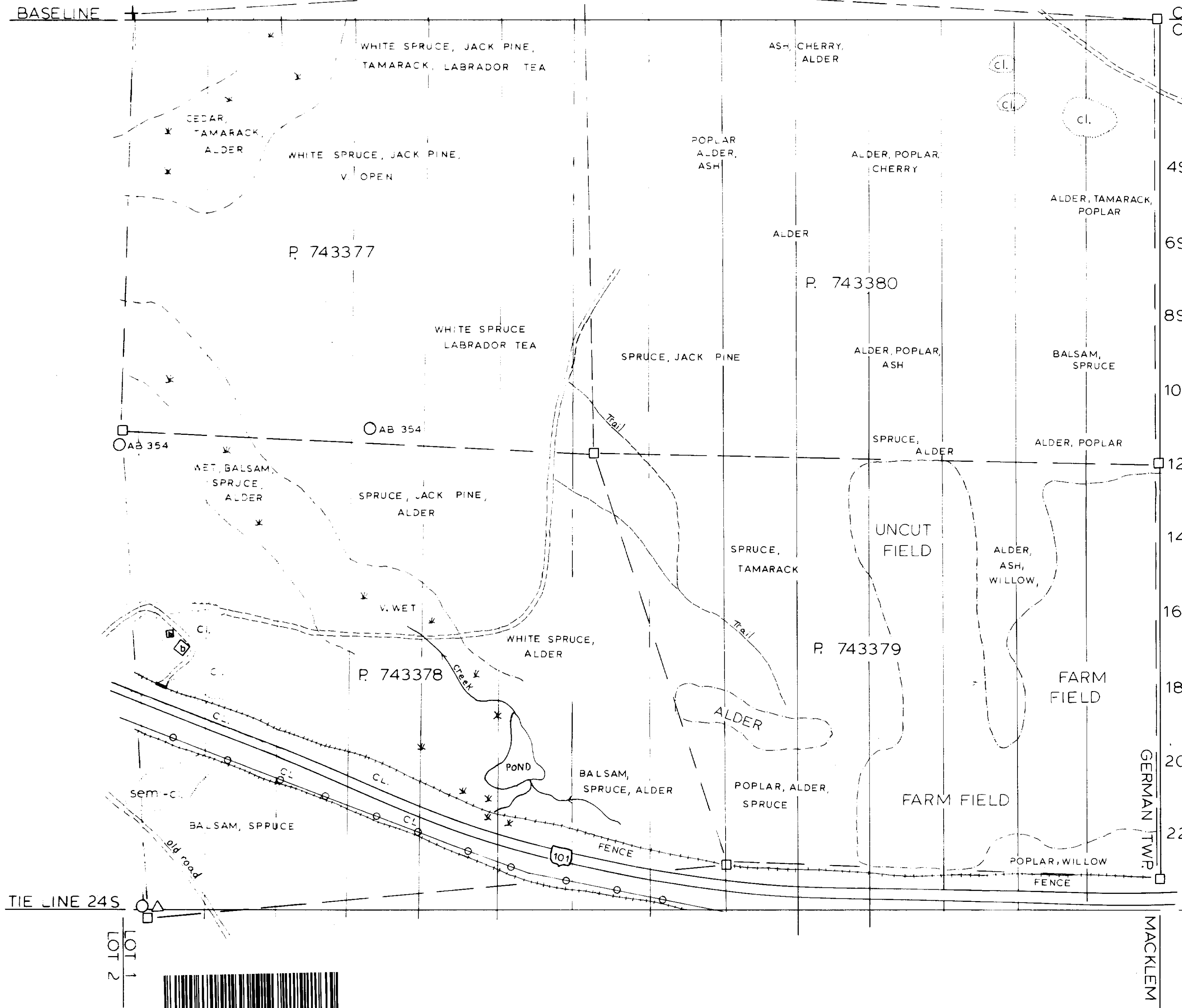
Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

L28W L26W L24 L22 L20 L18 L16 L14 L12 L10 L8 L6 L4W L2W LOW



2S
4S
6S
8S
10S
12S
14S
16S
18S
20S
22S
GERMAN TWP.
MACKLEM TWP.

STOCK TWP.
BOND TWP.

LEGEND / SYMBOLS

- Survey post
- △ survey pin
- claim post
- +— assumed claim post
- - - claim line
- == highway
- - - old road
- - - trail
- o— power line / telephone wires
- old building structure
- cl clearing
- swamp symbol wet swampy area
- ↗ creek

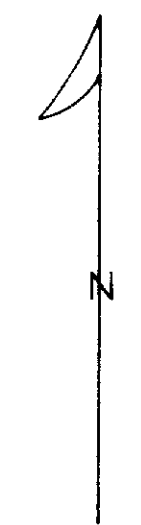
COMSTATE RESOURCES

GEOLOGIC MAP

SOUTH HALF, LOT 1, CONCESSION 1

GERMAN TOWNSHIP

PORCUPINE MINING DIVISION



28186

DR Tyke

