



42A06NW0128 2.5727 DELORO

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Comstate Resources Ltd.
Geology of Claim P 591264
in
Northwest Deloro Township
Porcupine Mining Division, Ontario

RECEIVED

AUG 2 1983

MINING LANDS SECTION

July 28, 1983
Timmins, Ontario

D.R. Pyke, Ph.D.

D.R. Pyke

Location

The property is located in northwest Deloro Township, District of Cochrane, Porcupine Mining Division (Fig. 1). The property consists of one claim - P. 591264.

Access

The claim is readily accessible, being only four miles south of the Timmins City Centre. A logging road extends across the southern part of the claim and intersects Pine Street South, 1.25 miles to the west, which forms the Deloro - Ogden Township boundary.

Present Survey

The claim is currently held in the name of D.R. Pyke, of 31 Delair Cres., Thornhill, Ontario. The survey was conducted by D.R. Pyke and K. Cunnison on behalf of Comstate Resources Ltd., on July 26, 1982 and May 11, 1983. The claim was traversed at 200 foot intervals along north-south lines.

Previous Work

The geology of the claim and surrounding area has been mapped by Burrows (1924), Hurst (1939) and later by Carlson (1967).

The only recorded assessment work on the claim is that

of Comstate Resources Ltd., who, in 1981, conducted a magnetic and electromagnetic (VLF) survey on the claim. Magnetically, the property was found to be quite flat. One VLF anomaly was outlined which would be best explained by an area of swamp and a small lake in the northwest part of the claim (Fig. 2).

Geology

Outcrop is confined to the northwest corner of the claim. The rock weathers light orange brown, is fine to fine-medium grained and is dominantly light green-grey to grey in colour, but contains minor portions which are darker green in colour. The darker coloured portions are invariably more strongly foliated. The weathered surface is somewhat pebbly to mottled in appearance and often contains anastomizing fractures, which can superficially give the rock a fragmental appearance. Wispy, discontinuous, narrow (0.1-0.3 inch) layers of very fine grained material are present within the rock and locally can appear as a pseudo-layering; these may represent inclusions of fine grained volcanic rock or possible flowage features. Narrow quartz seams up to one inch in width and averaging 0.25 inches, strike parallel to the foliation (075 - 060 degrees) and dips 65-75 degrees to the north.

An analysis of the rock is given in Table 1. The composition corresponds to that of a magnesium-rich tholeiitic basalt.

In the author's opinion, the outcrops present on the property probably form part of a sill-like intrusion rather than a volcanic flow. The main criteria for this is the lack of volcanic structures, ie. pillows, vesicles, flow breccia, hyaloclastite, etc..

Conclusions

The exact positioning of the Destor-Porcupine Fault (DPF) in this part of the Timmins camp is uncertain; certainly the claim P 591264 is close to the fault. In the writer's opinion the fault zone probably passes through the claim somewhere south of the outcrop area. The reasoning for this is that the outcrop area of magnesium tholeiite in the northwest corner of the property is more akin to the Tisdale Group volcanic rocks than the Deloro Group volcanics. In this part of the Timmins area, the DPF zone structurally separates the Tisdale and Deloro Groups (Hogg, 1950).

Recommendations

As Tisdale Group volcanic rocks are known to host gold deposits in proximity to the DPF zone, a geochemical (humus sampling) survey is warranted for the north portion of the claim. Samples would be obtained at 100 foot intervals along north-south lines spaced at 200 feet. All samples would be analyzed for gold and arsenic by neutron activation method.

DR Lyke

Table 1
Chemical Analysis from Outcrop Area
in the Northwest Corner
of
Claim P. 591264, Deloro Township

	<u>wt. percent</u>
SiO ₂	52.4
Al ₂ O ₃	14.5
CaO	9.86
MgO	6.54
Na ₂ O	2.36
K ₂ O	0.57
Fe ₂ O ₃	9.51
MnO	0.27
TiO ₂	0.67
P ₂ O ₅	0.06
L.O.I.	3.62
Total	100.4

References

Burrows, A. G.

1924: The Porcupine gold area, Fourth Report; Ont. Dept. of Mines, Vol. 33, pt. 2, 112 p. (Published 1925, reprinted 1933). Accompanied by Map 33 . Scale 1 inch to 2,000 feet.

Carlson, H.D.

1967: Geology of Ogden, Deloro and Shaw Townships; Ont. Dept of Mines, Open File Report 5012, 117p. Accompanied by Maps p. 341, p.342 and p.343. Scale 1 inch to $\frac{1}{4}$ mile.

Hogg, N.

1950: The Porcupine Gold area; Canadian Mining Journal, Vol. 71, no. 11, p.102-106.

Hurst, M.E.

1939: Porcupine area, District of Cochrone; Ont. Dept. of Mines, Map 47a, Scale 1 inch to 2,000feet.



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 DELORO

Claim Holder(s) D. R. PYKE

Survey Company COMSTATE RESOURCES

Author of Report D. R. PYKE

Address of Author 31 DELAIR CRES, THORNHILL, ONT

Covering Dates of Survey AUG 26/82 - JULY 27/83
(lifecutting to office)

Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically

P 591264
(prefix) (number)

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

- Geophysical
 - Electromagnetic _____
 - Magnetometer _____
 - Radiometric _____
 - Other _____
- Geological _____
- Geochemical _____

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

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

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

DATE: July 27/83 SIGNATURE: D R Pyke
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

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MINING LANDS SECTION

TOTAL CLAIMS 1

If space insufficient, attach list

OFFICE USE ONLY



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1. Type of Survey GEOLOGICAL

2. Township or Area DELORO

MINING LANDS SECTION

3. Numbers of Mining Claims Traversed by Survey P591264

4. Number of Miles of Line Cut _____ Flown _____

*5. Number of Stations Established _____

*6. Make and type of Instrument Used _____

*7. Scale Constant or Sensitivity _____

*8. Frequency Used and Power Output _____

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) 4

Total 8 hour Line-Cutting Days _____

Calculation

$$\frac{4}{\text{Technical}} \times 7 = \frac{28}{\text{Line-cutting}} + \frac{\quad}{\quad} = \frac{\quad}{\quad} \div \frac{1}{\text{Number of claims}} = \frac{28}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check

If otherwise, please explain _____

Dated: July 27/83

Signed: W. R. Tyke

- Note:
- (A) * Complete only if applicable.
 - (B) Complete list of names, addresses and dates on reverse side.
 - (C) Submit separate breakdown for each type of survey.
 - (D) Submit in duplicate.

Details of Assessment Work Breakdown

FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
GEOLOGICAL	D. R. PYKE - 31 DELAIR CRES THORNHILL ONT	DATES WORKED AUG 26/82, MAY 1/83	2
GEOLOGICAL	K.M. CUNNINGSON - 200 KENNEDY ST. W AURORA ONT.	DATES WORKED AUG 26/82	1

CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>

DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
D. R. Pyke	DRAUGHTING TYPING	MAY 30/83, JULY 25/83	1

TOTAL 8 HOUR TECHNICAL DAYS 4

LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>

TOTAL 8 HOUR LINE-CUTTING DAYS _____

Assessment Work Breakdown

Man Days are based on eight (8) hour Technical or Line-cutting days. Technical days include work performed by consultants, draftsmen, etc..

Type of Survey: <i>GEOLOGICAL</i>						
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days
1				7		
				=	Total Credits	÷
				7	1	=
				7		

Type of Survey:						
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days
				=	Total Credits	÷
						=

Type of Survey:						
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days
				=	Total Credits	÷
						=

Type of Survey:						
Technical Days	X	7	=	Technical Days Credits	+	Line-cutting Days
				=	Total Credits	÷
						=



Aug. 26/83.

Mining Lands Comments

To: Geophysics

Comments

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Geology - Expenditures *Mr. Kustra.*

Comments

<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date <i>Oct 20/83</i>	Signature <i>Kustra</i>
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To: Geochemistry

Comments

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

#150

2.5727

1983 08 05

Mr. William L. Good
Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claim P 591264 in the Township of Deloro.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-1380

A. Barr:mc

cc: Dr. D.R. Pyke
31 Delair Crescent
Thornhill, Ontario
L3T 2M3

D.R. Pyke and Associates Inc.

157 Burbank Drive
Willowdale, Ontario
M2K 1N9
Telephone (416) 221-6210
705-264-1037

P.O. Box 1163
TIMMINS, ONT
P4N 7H9.

JULY 28/83

LAND MANAGEMENT BRANCH
MINISTRY NATURAL RESOURCES
Whitney Block
Room 6450
Queen's Park
TORONTO
MTA 1W3

RECEIVED	
Land Management Branch	
CIRCULATE	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
AUG - 2 1983	
E. P. ANDERSON	
J. R. MORTON	
J. G. SMITH	
G. SHERMAN	
J. M. SMALL	
RETURN TO R. 6450	

Re: Mining Claim P591264, DELORO TOWNSHIP

Enclosed are two copies of a geological report for the above claim.

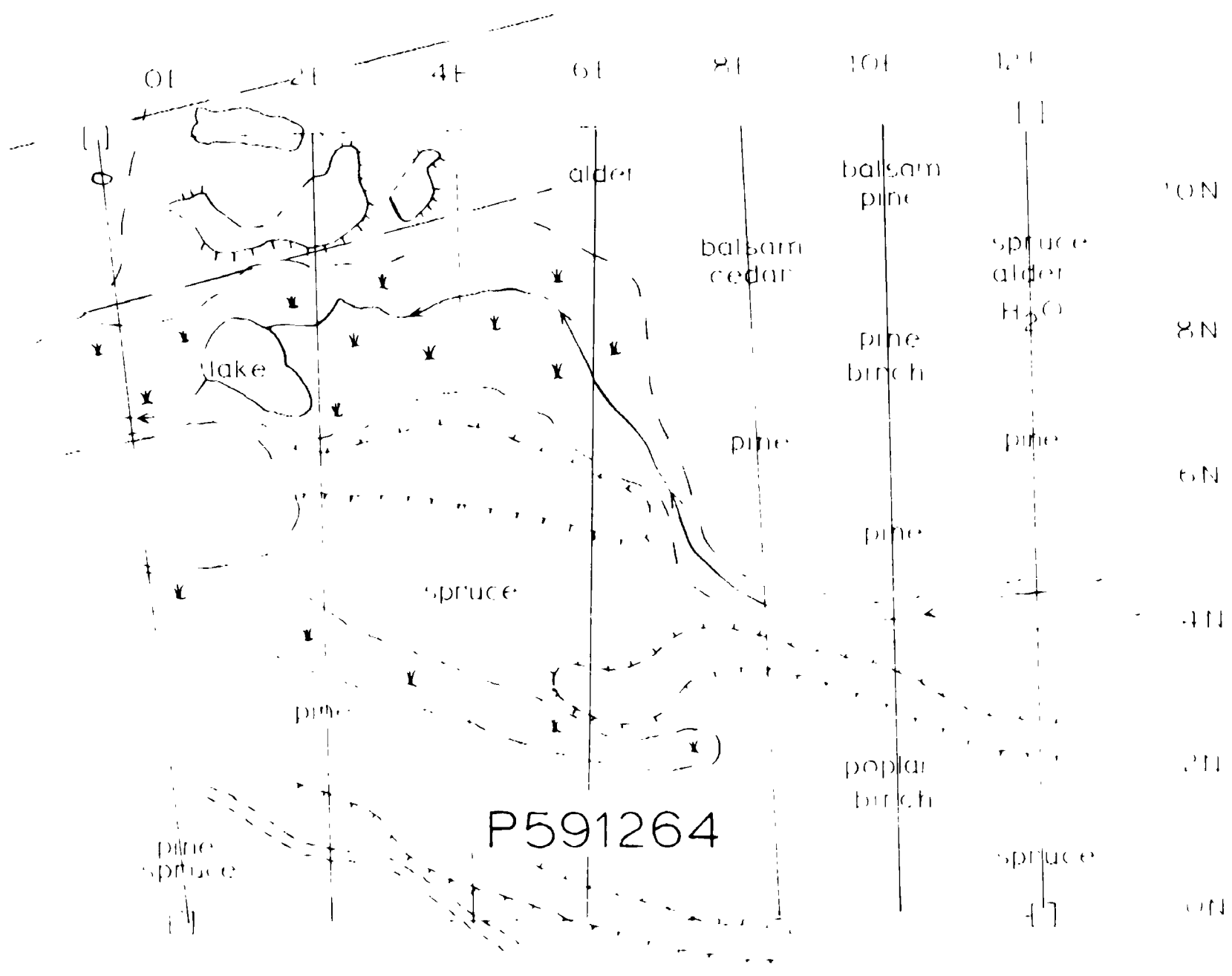
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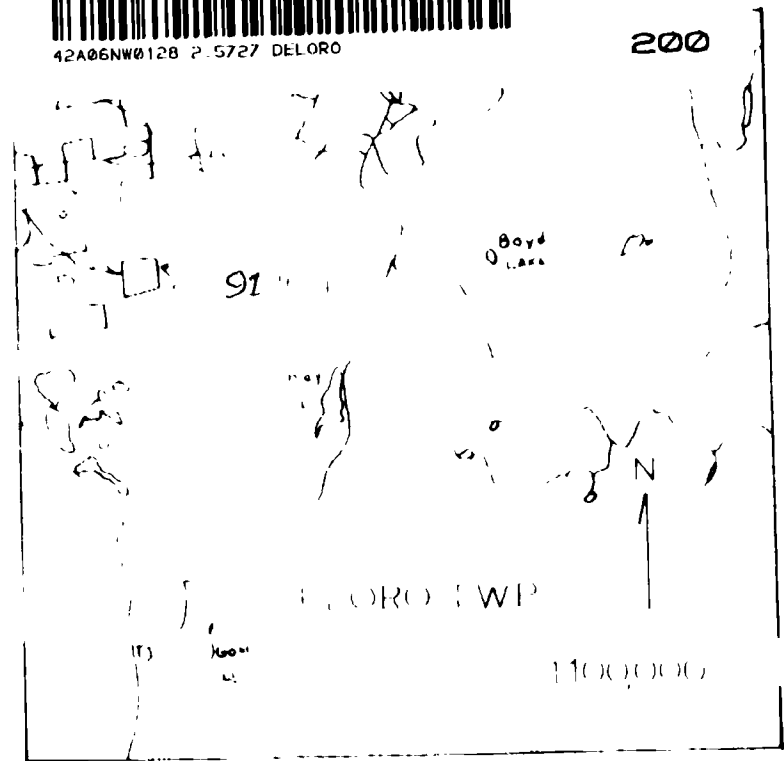
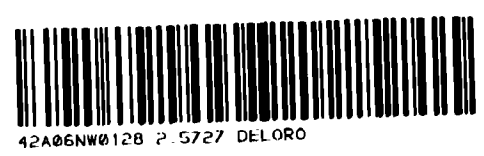
Sincerely,

D R Pyke



LEGEND

- outcrop
 - outcrop with steep sides
 - alluvium
 - stream (filled in)
 - farm post
 - stream
 - stream direction of flow
 - top of swamp
 - top of bush
 - standing water
- } sill of Magnesium Tholeiite



COMPLIATE RESOURCE

Geological Map

Northwest Deloro Lowland

Compiled by *Al Klyke*

Date: July 29, 1983	Drawn by: [unclear]
Scale: 1:200	[unclear]