

06NW0128 2.5727 DELORO

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Comstate Resources Ltd.

Geology of Claim P 591264

in

Northwest Deloro Township

Porcupine Mining Division, Ontario

## RECEIVED

4UG 2 1983

MINING LANDS SECTION

July 28, 1983 Timmins, Ontario

D.R. Pyke, Ph.D.

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#### 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 The rock weathers light orange brown, is fine to claim. 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 - o60 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.

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## Table 1

Chemical Analysis from Outcrop Area

## in the Northwest Corner

of

Claim P. 591264, Deloro Township

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	wt. percent
SiO2	52.4
A1203	14.5
CaO	9.86
MgO	6.54
Na20	2.36
<b>K</b> 20	0.57
Fe203	9.51
MnO	0.27
TiO2	0.67
P205	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.

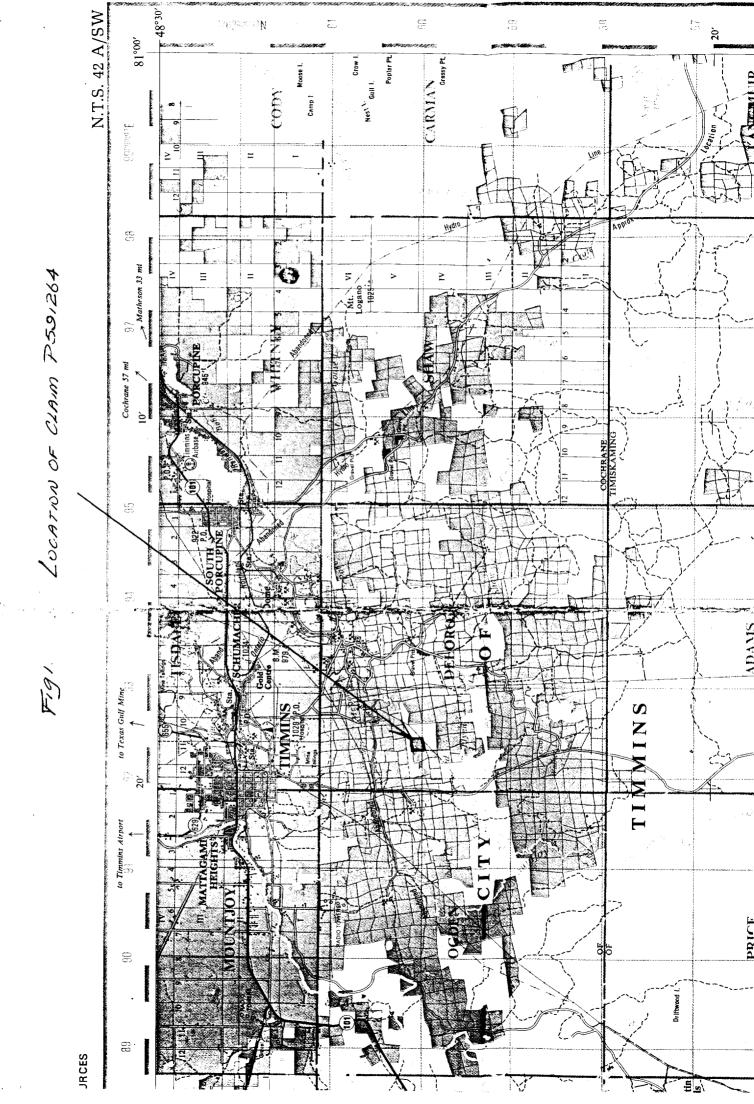
1967: Geology of Ogden, Deloro nd Shaw Townships; Ont. Dept of Mines, Open File Report 5012, 117p. Accompanied by Maps p. 341, p.342 and p.343. Scale 1 inch to 4 mile.

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 Cochrane; Ont. Dept. of Mines, Map 47a, Scale 1 inch to 2,000feet.



LOCATION CLAIM PS91264, DELORO TP. 12 T.R.P 571 H.S 849 P 79 900 06NW0128 2 5727  $(\mathbf{P})$ (P)  $\bigcirc$ , - P 1110  $\mathbf{P}$ ୭ R H.R. 910 P 170 HR H.R. 912 T.R.P. T.R.P. 172 911 P 170 ς. P 7183 H.R. 868 (P)  $(\mathbf{P})$ ବ 7959 P 0 ୭ P  $\bigcirc$ P 79 P H.S. 803 H.S H.R. 933 P 7970 ł TR.P 171 804 (+) T.R.S.  $\bigcirc$ 838 Ð  $\bigcirc$ P 935 H.R H.R. 934 P H.R. 941 7341 P. T.R.P. P ) (D 174 D H.R. T.R.P. 173 TRS 100 823 >₩. ℗ T.R.P. 687 H.R PP ি ୭ (P) 936 тс  $\bigcirc$ H.R. 940 M.E. H.R. 603 T.R.P. 688 43 Ð 80 Ð ୭ TRS ୭ ୭ 1132 (P) (P) P.24507 ē26 НB P FILE: (P) P. 8637 P P 802 P M.E. 42 M.E. 41 P. R18220 P 0 81 H.R.947 ୭ P (P) Ð P 16251 **\8638** P P 18577 P 18219 P. 24764 H.R. 801 P ୭ H.R. 800 P 53-704 7295 P H.R. 1126 e P Ð H.R. 1004 P. 24721 P 18687 56703 gH.R 1/1041 56 P 16250 ୭ FILE 17:661 568718 P. H.R. 1042 H.R H.R. 1043 Ο \$ 716 452678 937 451842 4 H.R. T. R.S. P.P. 76 P P 77 O 896 P. 19150 C38 P 451843 Ρ 925 591264 D ୭ 7881 7884 c. HR. 1007 Ð P P 7882 ,® ∮ H.R. 895 (P) -P.P. 78 P. 19151 ୭ 47037 PP 79 P 8555 ALL AND AND A P7883 ୭ ĢR HR 1268 R. S. 7036 . . . C. T.R.S. 5.19D 934 ... 490 Ð 568,117 935 3RO Ø 583092 高和5 P. 819 1 H.R. 850 P ù A States P. 7892 H.R.1150 ଡ଼ୢ 7914 (P) 🖤 Gravel : 39947 2q. File 勐 Q 76202 Ð



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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)_	GEULO	GICAL		
Township or Area_				
Claim Holder(s)				LAIMS TRAVERSED t numerically
Survey Company_	COMSTA	TE RESOURCES	$= \mathcal{P}$	591264
Author of Report >	DR. PY	KE	(prefix)	(number)
Address of Author.	31 DEL	AIR CRES THORNHILL (	bσ -	•••••••••••••••••••••••••••••••••••••••
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line cutting) for f	•	-Magnetometer		۔ بر ا
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ENTER 20 days f	or each	-Other		
additional survey		Geological		
same grid.		Geochemical		
AIRBORNE CRED	ITS (Special prov	rision credits do not apply to airborne surveys)		
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DATE: July	27/13	ATURE ALTOPA		
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#### Assessment Work Breakdown

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1.	Type of Survey GEOLOGICAL MINING LANDS SECTION
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3.	Numbers of Mining Claims Traversed by Survey <u>P591264</u>
4.	Number of Miles of Line Cut
*5.	Number of Stations Established
*6.	Make and type of Instrument Used
*7.	Scale Constant or Sensitivity
	Frequency Used and Power Output
9.	Summary of Assessment Credits (details on reverse side)
	Total 8 hour Technical Days (Include Consultants, Draughting etc.)
	Total 8 hour Line-Cutting Days
	Calculation
	$\underline{-4} \times 7 = \underline{28} + $
	Technical Line-cutting Number Assessment credits
	of claims 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
	and and and the
	Dated: July 27/83 Signed: URTGRe.
	1
	Note: (A) * Complete only if applicable.
	<ul><li>(B) Complete list of names, addresses and dates on reverse side.</li><li>(C) Submit separate breakdown for each type of survey.</li></ul>
	(D) Submit in duplicate.

Details of Assessment Work Breakdown

and the second second

FIELD	WORK

			Number of
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	AURORA ONT. J	ATES UDRED AUG 26/82	2
CONSULTANTS			
Name & Address	Dates Worked (specif	y in field or office)	Number of 8 hour days
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DRAUGHTSMAN, TYPING,	OTHERS (specify)		
	(specify)		Number of
Name & Address	Type of Work	Dates Worked	8 hour days
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		TOTAL 8 HOUR LINE-CUTTING DA	YS

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Geotechnical Report Approval

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Mining Lands Comments

Ministry of Natural Resources

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To: Geophysics			
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		Date (Tel: 5-1380)	Signature

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 #150 2.5727

## D.R. Pyke and Associates Inc.

1<del>57 Burbank-D</del>rive W<del>illowdale, Ontario</del> M<del>2K 1N9</del> Telephone (<del>416) 221 6210</del> 705-264-1037

P.O. Box 1163 TIMMINS, ONT PAN TH9. JULY 28/83 LAND MANAGEMENT BRANCH RECEIVED Land Management Branch MINISTRY NATURAL RESOURCES CIRCULATE COMMENTS PLEASE Whitney BLOCK Room 6450 AUG - 2 1983 F. ANDERSON Queen's PARK . R. MORTON TORONTO SIAMTH C. SHERMAN MTA IW3 Lan Stant Re: MINING CLAIM P591264, DELORO TOUNSHIP TUEN TO R. 6450 Enclosed are two copies of a geological report for the obove claim.

RECEIVED

4UG 2 1983

MINING LANDS SECTION

Sincerely, DRPgke

