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GEOPHYSICAL SURVEYS

ON

SHERIDAN CLAIMS

KIDD, MURPHY, TISDALE AND WARK TOWNSHIPS

PORCUPINE MINING DIVISION

ONTARIO

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JAN 27 1988

MINING LANDS SECTION

TIMMINS, ONTARIO January 22, 1988

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Maps

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Group 1, 2, 3, and 4 Electromagnetic Survey Maps -1"=200' Max Min 11

Group 5 Electromagnetic Map VLF-EM 16 1"=200'

Group 2, 3, 4 and 5 Geometric Survey Maps 1"=200'

SUMMARY

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Five separate claim groups designated as Group 1 to Group 5 located in Kidd, Murphy, Tisdale and Wark Townships, Porcupine Mining Division of Ontario were covered by ground geophysical surveys over prepared line grids.

Groups 2, 3, 4 and 5 were surveyed utilizing the Geometrics Proton Magnetometer System. Groups 1, 2, 3 and 4 were surveyed utilizing the Apex Max Min 11 Portable E M System. Group 5 was surveyed utilizing the Geonics E M - 16 VLF System.

An anomalous zone of conductivity was detected on the east side of Group 3 and requires further testing.

Another conductive zone was detected on the west side of Group 5 and will also be further evaluated with a different instrument.

Two small one line high magnetic anomalies were detected in the north-east corner of Group 2 and may be caused by man-made objects under the 500,000 volt steel tower transmission line and road.

A high magnetically anomalous area in the south-east portion of Group 4 coincides with an ultrabasis intrusive as per Geological Map No. 2005.

On Group 5 two small one reading magnetic highs on the north-east boundary of the claims are probably caused by man-made objects (possible drilling debris left over from drilling a number of years ago - a drill casing was seen a bit farther east on the adjoining property.)

PROPERTIES

The five claim groups all situated in the Porcupine Mining Division of Ontario consist of the following:

- Group 1: consists of one claim numbered P577598 comprising the SW% S% Lot 9 Con 2. Tisdale Tp.
- Group 2: consists of four contiguous claims numbered P915991 to P915994 comprising the S½ Lot 3 Con 1, Kidd Township.
- Group 3: consists of four contiguous claims numbered P915974 to P915977 comprising the N½ Lot 12 Con 1, Wark Township.
- Group 4: consists of four contiguous claims numbered P915966 to P915969 comprising the N½ Lot 10 Con 2, Murphy Township.

PROPERTIES (cont'd)

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Group 5: consists of three contiguous claims numbered P915963 to P915965 comprising the south-west 3/4 of the S½ Lot 6 Con 1, Murphy Township.

LOCATION AND ACCESSIBILITY

Group 1: lies in the south-central part of Tisdale township. Access is made via gravel road for 1,500 feet north of the Back Road which heads at a point 1800 feet east of the Vipond Road junction.

Group 2: lies in the south-east quadrant of Kidd Tp, 2 miles west Hwy 655 via township line trail, and 12 miles north of Hwy 655 - Hwy 101 Junction.

Group 3: lies in the south west quadrant of Wark Tp. The north east corner of the group lies 13 miles north of Hwy 655 - Hwy 101 Junction.

Group 4: lies in the south-west quadrant of Murphy Township. the property is reached via small bush road for 3/4 mile and swampy trail for 3/4 mile west from a point off Hwy 655, 11.5 miles north of the Hwy 655 - Hwy 101 Junction.

Group 5: lies in the south central part of Murphy Township bordering the south boundary. Access is made via hwy 655 5 miles north of Hwy 655 - Hwy 101 Junction, 3/4 miles east via gravel road and ½ mile south via bush trail.

GENERAL GEOLOGY

All of the claims are underlain by Early Precambrian assemblages of metasediments and metalvolcanics intruded by Mafic and Ultramafic Rocks. No rock outcrops occur on Groups 2 to 5.

Group 1 is underlain by intermediate volcanics and sheared felsic metavolcanics as seen in outcrop.

GEOPHYSICAL SURVEYS

All surveys were carried out over prepared grids with N - S lines on 300 foot spacings and 100 foot station intervals.

(a) Electromagnetic Surveys

Groups 1, 2, 3, and 4 were surveyed utilizing the Apex Max Min 11 Portable system

Group 5 was surveyed with Geonics VLF-EM 16.

GEOPHYSICAL SURVEYS (cont'd)

Results are as follows:

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Group 1: Tisdale Township

This one claim group was surveyed with the Max Min 11 with coils separation of 200 feet. Results are negligible.

Group 2: Kidd Township

This four claim group was surveyed with the Max Min 11 with coils separation of 100 metres (the 100 foot stations were overlapped 14 feet at each coil to center the reading point on an even station.)

Results are negligible.

Group 3: Wark Township

This four claim group was surveyed with the Max Min 11 with coils separation of 100 metres.

A short zone of conductivity designated as anomaly A is indicated on the east side of the grid. The best definition is on line 6W. Further evaluation using the same instrument on several frequencies and additional lines will be done to assess the possible economic importance.

Group 4: Murphy Township

This four claim group was surveyed with the Max Min 11 with 100 metre coils separation.

Results are negligible.

Group 5: Murphy Township

This three claim group was surveyed with the VLF-EM 16 A weak to moderately strong anomaly is indicated on the west sode of the grid. The area will be re-surveyed with the Max 11 for confirmation and better definition of the conductor.

(b) Magnetometric Surveys

Groups 2, 3, 4 and 5 were surveyed employing the Geometrics proton Precession Magnetometer Model G-816.

Group 2: Kidd Township

The magnetic response is fairly flat and for all intents and purposes of no interest.

Group 3: Wark Township

The magnetic response is fairly flat with two local small anomalies on the NE boundary of the claims. The ano-

Magnetometric Surveys (cont'd)

anomalies are attributed to man-made objects under the 500,000 volt power line.

Group 4: Murphy Township

The south-east portion of the property is magnetically high which reflects a portion of an underlying ultramafic intrusive as indicated on the regional geology map no. 2005 - Timmins - Kirkland Lake Sheet.

Group 5: Murphy Township

The magnetic response is fairly flat with two small one reading magnetic highs on the north east side. These magnetic highs are attributed to man made debris left from drilling - a drill casing is seen to the east on the adjoining property.

A local minor magnetically low anomaly lies on the west side of the property coinciding with the E. M. Conductor.

CONCLUSIONS

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2. Group 5: E.M. Anomaly A requires resurveying with a Max Min 11 E. M. System to confirm the anomaly for possible bedrock response.

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Respectfully submitted

FEB 1 9 1988

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MINING LANDS SECTION

C. f. Desson

Magnetometric Surveys (cont'd)

anomalies are attributed to man-made objects under the 500,000 volt power line.

Group 4: Murphy Township

The south-east portion of the property is magnetically high which reflects a portion of an underlying ultramafic intrusive as indicated on the regional geology map no. 2005 - Timmins - Kirkland Lake Sheet.

Group 5: Murphy Township

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A local minor magnetically low anomaly lies on the west side of the property coinciding with the E. M. Conductor.

CONCLUSIONS

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1. Group 3: E.M. Anomaly A should be resurveyed on several frequencies with the Max Min 11 for better definition and confirmation.

2. Group 5: E.M. Anomaly A requires resurveying with a Max Min 11 E. M. System to confirm the anomaly for possible bedrock response.

Respectfully submitted

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C. f. Desson



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#298/87 Ministryof Instructions: - Please type or print, Report of Work Natural, - If number of mining claims traversed (Geophysical, Geological, exceeds space on this form, attach a list. Resources Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend, Days Cr." columns. Geochemical and Expenditures) Mining Act 2.10770 Do not use shaded areas below. Township or Area Type of Survey(s) Geophysical Kidd Prospector's Licence No. Claim Holder(s) J. P. Sheridan M15350 150 YOVA Street Suite 1814 Toronto Ontorio M5H3SS Date of Survey (from & to) M5H3SS Total Miles of line Cut Day M0. Vr. Day M0. Vr. 4:50 Address Survey Company Diepdaume Mines Ltd Name and Address of Author (of Geo-Technical report) Bux 1392 TIMMIN, ONTAVIO PAN TN2 C F. Desson Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) **Special Provisions** Mining Claim Days per Claim Expend. Days Cr. Mining Claim Expend. Geophysical Prefix Number Prefix Number Days Cr. For first survey: Electromagnetic \mathcal{D} 915991 Enter 40 days. (This includes line cutting) Magnetometer 915992 40 - Radiometric 915993 For each additional survey: using the same grid: Other 915994 Enter 20 days (for each) Geological $M_{\rm B} = \{0,1\}$ Geochemical - i - i ų . Man Days Days per Claim Same Geophysical Complete reverse side Electromagnetic and enter total(s) here 6 Magnetometer - ----Tel:r.s - Radiometric , dy. (agence Other RECEIVED . . . **Airborne Credits** Days per Claim 2 2 1987 Note: Special provisions Electromagnetic credits do not apply to Airborne Sufers of MeANDS SECT:01 **Badiometric** Expenditures (excludes power stripping) RECORDED YPORCUPINE MINING DIVISI NOV-30 117 NOV 80 1967 Celculation of Expenditure Days Credits Total **Days Credits** \$ 15 Total number of mining claims covered by this Instructions report of work. Total Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected Total Days Cr. Date Recorded in columns at right. Mining Rec Recorded 10 Recorded Holder on Agent (Signature) Date Branch C 160 Nov 29/87 Jonsi 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 \mathcal{V} . $\mathcal{C} \models \mathcal{D} \in \mathcal{S} \mathcal{S} \mathcal{S} \mathcal{S}$ Certified by (Signature) Dete Certified NUS 28/8 BUX 1392

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Caller -

Magnetometric Surveys (cont'd)

anomalies are attributed to man-made objects under the 500,000 volt power line.

Group 4: Murphy Township

The south-east portion of the property is magnetically high which reflects a portion of an underlying ultramafic intrusive as indicated on the regional geology map no. 2005 - Timmins - Kirkland Lake Sheet.

Group 5: Murphy Township

The magnetic response is fairly flat with two small one reading magnetic highs on the north east side. These magnetic highs are attributed to man made debris left from drilling - a drill casing is seen to the east on the adjoining property.

A local minor magnetically low anomaly lies on the west side of the property coinciding with the E. M. Conductor.

#### CONCLUSIONS

1. Group 3: E.M. Anomaly A should be resurveyed on several frequencies with the Max Min 11 for better definition and confirmation.

2. Group 5: E.M. Anomaly A requires resurveying with a Max Min 11 E. M. System to confirm the anomaly for possible bedrock response.

RECEIVED FEB 2 4 1988

MINING LANDS SECTION

Respectfully submitted

Alesso

C. f. Desson

Quel 63.1558

MAP SYMBOLOGY

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S.R.O. – SURFACE RIGHTS ONLY M.+ S. – MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

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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 VI 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 _____  $\mathbf{\Theta}$ LEASE, SURFACE & MINING RIGHTS , SURFACE RIGHTS ONLY .... , MINING RIGHTS ONLY ..... V LICENCE OF OCCUPATION ORDER-IN-COUNCIL 00 RESERVATION ....  $\odot$ 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. 500 0 Metres _____ 1000 10 0 10 20 30 40 50 60 78 500 0 1000 2000 3000 4000 IV G 0 ≶ SCALE 1:20 000  $\triangleright$ Z SI/2 LOT 9, CON 3, LOT 9, CON 2 8 S1/2, S1/2, LOT 6, CON 3 - Withdrawn from staking-SR & MR Ó Ζ SHI σ 11 DECEN DEC 24 1987 TOWNSHIP WARK M.N.R. ADMINISTRATIVE DISTRICT TIMMINS MINING DIVISION PORCUPINE LAND TITLES / REGISTRY DIVISION COCHRANE Ministry of Ontario Ministry of Natural Northern Development Resources and Mines Date SEPTEMBER 1986 Number G-3989 Checked Cot 20/86 LP

CARNEGIE TWP - M. 441 - ------55821 İ 57614 ****  $\mathbf{\hat{O}}$ BRD SPO Ð ەي رىخو P Ð P Ð Ð /5586I 57482 55862 | 55863 1 0 1 0 100 55860 ó 10 1. 56076 56080 © © Ø Ø, \O Ð Ø P P P Ð | P 124124 56077 | 56081 C 56133 725893 725892 553994 553991 55082 56078 sha 1,499150 ℗ <u>_</u>__  ${f D}$ Ð Ð Ð 125 887 125 826 16079 16083 5537935539972 £ Ð 56000 C 5600-L P Ð Ð P Ð P Ð 55982 55983 O ----- $\mathfrak{D}$ 2 634362 P uno P uno 58585 | 58586 M.294 Ð  $\mathbf{P}$ ®. Ð Ð Ð Ð Ð Quno \$8.8. U 56588 (56587 -. 1 55977 55978 *5033 ~Q 55832 <u></u> TWP , D ିତ୍ର DÐ Ð Ð P 1 16854 55831 / •••**•**• / D MĄCDIARMID 255371 55975 55560 1 55369 Q 0 P  $m{O}$ Ð Ø  $(\mathbf{P})$ Ð Ð Ð 55353 55370 55974 + 559W ... ÷. 6 Q  $\mathbf{D}$ . 283621683622 1. 55H3 | 55H4 __________ Ð **(P)** Ð Ð Ð P ®\ ՝ Թ : Ep 22 22 - y 🖻 683624 56075 55121 D 1 D متريد و محد 25 مار دور الم متريد و محد 25 مار دور دور دور ۲۵ 1 А, **@`**  $m{D}$ Ø Ð P Ð 10000 ( 17310 - (23628 623 27) Ð 3. 1. 0. D Ø P P Ð Ð Ø Ð Ð Ð 36978 36979 56980 36981 0 T 0 mi o 0 580 0 000 725 337 725 338 - - i Ð O/ Ð (D) ୍ୱ ല B 725895 725 899 915773 1915772 764692 7 049 1 - 'P Ð P P ව Ð  $\mathfrak{D}$ 919994 915A91 12 10 7 6 5 9 11 8 4 ESSOP TWP - M 289 230



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00 OND r25 P915977 814 853 815 BASE LINE 1216 OFFSET -837 /237 - 825 -1581 819 816 14 - 876 A \$17 - 1159 -8/3 - 841 -\$2/ - 799 +824 \$15 -793 \$19 807 - 856 833 P915376 - 852 - 841 . 841 - 823 -828 -#28 829 - 818 -- 809 -812 GROUP 3 - 803 -8/4 <u>GEOMAGNETIC</u> SURVEY - 8/6 SHERIDAN CLAIMS WARK TOWNSHIP - 80' - 803 -801 PORCUPINE MINING DIVISION ONTARIO 805 -136 SCALE: IIN=200FT DEC. 1997 INSTRUMENT USED: SCINTREX-Proton Precession Magnetometer Model MP-2 - 804 -789 SYMBOLS D Magnetic Control Station E Claim Post - 810 1997 -206 802 <u>Note:</u> 58,000 gamma: deducted from all readings after corrections <u>Note:</u> See EM Map for Index Map L 8/8 1901 ..... 2.10170







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GEOMAGNETIC SURVEY GEOMAGNETIC SURVEY SHERIDAN CLAIMS KIDD FOWNSHIP PORCUPINE MINING DIVISION ONTARIO SCALES, INT20055 DEC. 1987 INSTRUMENT USED: SCINTREX - Proton Procession Magnetometer Model MP-2

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140791 LOTIO P577598 INDEX MAP (Traced from Charm Mor 1:20 000 Right # 4BO TOM RENDWIG OP GRO









GEOMAGNETIC SURVEY SHERIDAN CLAIMS MURPHY TOWNSHIP PORCUPINE MINING DIVISION ONTARIO SCALE: IIN=200FT DEC 1997 INSTRUMENT USED: SCINTREX- Proton Precession Magnetometer Model MP-2 SYMBOLS A Mognetic Control Station Claim Past

GROUP 4

Note: 58,000 gammas deducted from all readings after corrections Note: See E. M. Map for Index Map







g CON 2019 LOTH Grer word CON 15900 945943 P915966 INDEX MAP ۰. 11N = 2640 FT +7 1+8 +12 +19 1421 414 GROUP 4 +14 ELECTROMAGNETIC SURVEY +10 SHERIDAN CLAIMS +7 MURPHY TOWNSHIP +16 1 +27 PORCUPINE MINING DIVISION ONTARIO +177 1 + ==== SCALE: FIN=200FT DEC 1987 EMPROFILE SCALE: LIN=20% INSTRUMENT USED: APEX MAX MIN IL PORTABLE EM +19 +22 ) FREQUENCY: 3555 Hz . In Phase Profile +ið • --9 +*? - Out of phase profile I Claim Post 14 1 COILS SEPARATION: 100m +14 All Plus Readings Platted Left of the Survey Line " Right man a se All Minus II +12 | +1] -8 2.1011D Readings Plat - 2 NN 17 40 out of Phase -P 9/5969 -9 Protite In Phase Pro tak -15 NOTE: Readings Plat +6 Top Reading -1.P 1 1 2 +2 Better Reading -OP + (plus) (minus)