010

ASSESSMENT REPORT ON

GEOLOGICAL & GEOPHYSICAL SURVEYS

CODY-BUSH CLAIM BLOCK

CODY TOWNSHIP, ONTARIO

BY

PLACER DEVELOPMENT LIMITED

Toronto, Ontario
November, 1982.

TABLE

INTRODUCTION

This report covers the geological mapping and geophysical surveys conducted by Placer Development Limited on the Cody property during the winter and summer of 1982.

LOCATION AND ACCESS

The Cody property is a group of eight claims with the corresponding claim numbers and locations listed below.

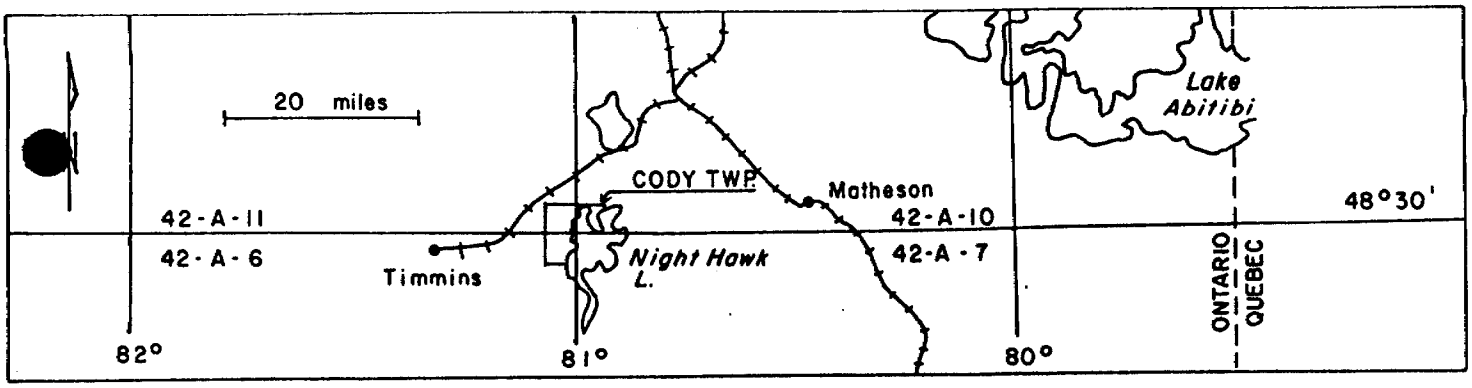
P.529931, NW ¼, S ½, Lot 12, Conc.V
P.529932, NE ¼, S ½, Lot 12, Conc.V
P.529933, NW ¼, S ½, Lot 11, Conc.V
P.529934, NE ¼, S ½, Lot 11, Conc.V
P.529935, SW ¼, S ½, Lot 12, Conc.V
P.529936, SE ¼, S ½, Lot 12, Conc.V
P.529937, SW ¼, S ½, Lot 11, Conc.V
P.529938, SE ¼, S ½, Lot 11, Conc.V

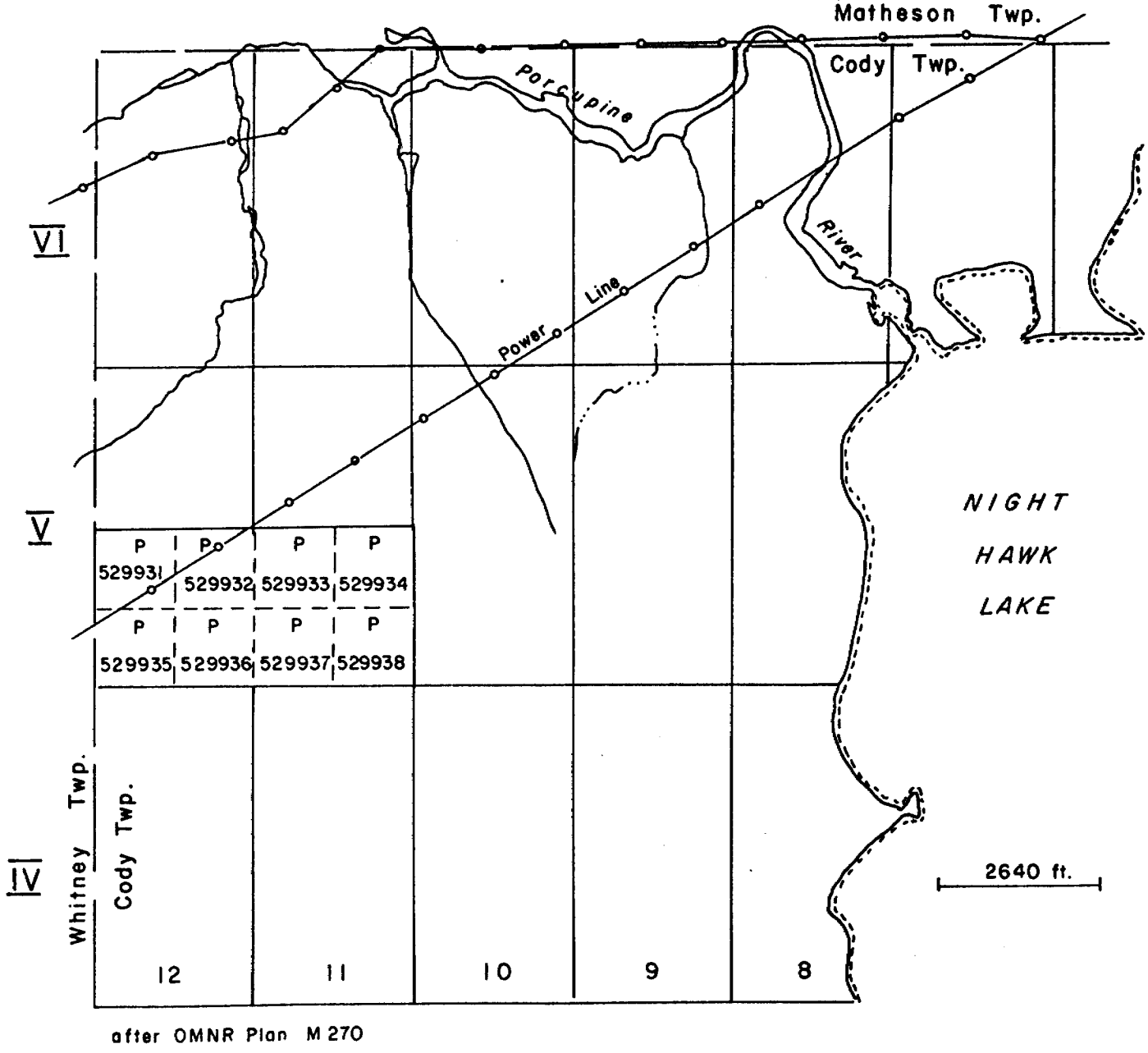
The property is accessible via a power transmission line right of way extending southwest from the Porcupine River for approximately 3 km, or via the Whitney-Cody township line south from highway 101 for 1.7 km. Both routes can be travelled on foot or by all-terrain vehicle. Figure 1 is a location map of the property.

PREVIOUS WORK

Previous exploration work done on the property was reported by Leahy (1971). Wineva Gold Mines in 1936 drilled three holes totalling 1954 feet, and gold assays ranged from nil to 0.26 oz./ton. The exact location of two of the holes is unknown but one casing has been located on claim P.529934 west of the #1 post.

contd. ...





after OMNR Plan M 270

PLACER DEVELOPMENT LIMITED

LOCALITY & CLAIMS MAP

CODY-BUSH CLAIM BLOCK

Night Hawk Lake

Cody Twp., Ontario

NTS 42-A-11 V 184 (IV)

Aug., 1982

Figure 1.

In addition, extensive trenching has been located on claim P.529931. These trenches were excavated in the late 1930's and gold assays are reported to range from trace to 0.12 oz./ton.

Humus sampling (A^{o} soil horizon) was undertaken by Pyke (Pyke, 1981) and several zones of anomalous gold and arsenic concentrations were identified. These values were described by Pyke as "relatively low" and lacking in continuity and he concluded "that the geochemical anomalies detected are weak and may not reflect a bedrock source for the gold and arsenic". However it was pointed out that the stratigraphic trend coincides with the trend of a majority of the geochemical anomalies and that follow-up work was necessary to further evaluate the property's mineral potential.

CURRENT WORK

Linecutting: For control purposes a grid of 15.950 line km was cut over the Cody property. The baseline is 1600 m long at azimuth 90^{o} and approximately coincides with the property's south baseline. Cross-lines were turned off from the baseline every 100 m and are all approximately 750 m long at azimuth 0^{o}. A tie line was also cut parallel to, and 750 m north of the baseline. All lines were chained and 1.5 m high pickets placed at 25 m intervals.

contd. ...

GEOLOGY

General Geology: The most recent geological mapping of the Nighthawk Lake area, which includes the Cody property, is by Leahy (1971). The Cody property lies south of the Destor-Porcupine Fault and is part of a thick wedge of sediments intercalated with intermediate tuffs, and overlying mafic volcanics. The mafic volcanics have been metamorphosed to at least green schist metamorphic grade and are texturally schists. Pyke (1981) has interpreted the mafic volcanics to be part of the Lower Tisdale Group rocks, and the tuffs and sediments to be turbidite, Table I.

Overburden in the area is typically lacustrine clays and silts.

Property Geology: The rock mapped on the Cody property, Dwg.No.184-33, can be divided into 5 units. Unit 1 is a chlorite-carbonate schist and is found only in the southwest corner of the property. It is pale greyish green to dark green and weathers to greenish brown. It is equigranular, medium grained and strongly lepidoblastic. The rock is composed essentially of platy crenulated chlorite and granular calcite, and is most likely derived from a tholeiitic basalt. Some samples strongly resemble highly sheared equivalents to the Vipond sequence to the west.

Intermediate volcanoclastics (Unit 2) overlie the meta-basalt and exhibit a range of textures from completely reworked and clastic in appearance to typically tuffaceous. These rocks are medium to pale green on the fresh surface and weather to medium brown. They are medium grained and equigranular, and

contd. ...

T A B L E I

TABLE OF FORMATIONS

Intermediate Mafic Intrusive Rocks

5 Diorite

4 Diabase-gabbro

Metavolcanics and Metasediments

3 Slate-phyllite

2 Intermediate volcanoclastic

Mafic Metavolcanics

1 Chlorite-carbonate schist

composed of plagioclase, possibly of the oligoclase variety, chlorite, calcite, sericite, and quartz. Where the rock is reworked the quartz grains are well rounded and coarser than other grains. The tuffs exhibit thin whispy lapilli or ash, and in one instance the coarser lapilli have quartz cores. The rock is massive to weakly schistose and bedding is rarely seen.

Overlying the volcanoclastics are fine grained to aphanitic slate and phyllite (Unit 3). These rocks are equigranular, fine grained to aphanitic and strongly foliated. This unit is found only in the northwest corner of the property and it is moderately to strongly carbonatized.

North-trending gabbro dykes (Unit 4) are located between lines 7E and 11E. The gabbro is very dark grey to black and weathers to dark brown. It is equigranular and very fine to medium grained, and typically magnetic. Where contact with the country rock was located the chill zone within the gabbro was found to be between 0.3 and 1.0 metres wide. At station CG-82-13(S) the dyke was found to be 10 m wide and approximately vertical in attitude.

One outcrop of diorite (Unit 5) was found on the property, at 4+25E/6N. It is greyish mauve on the fresh surface and weathers to grey. It is equigranular, medium grained, and composed of hornblende, plagioclase, leucoxene and carbonate. Its place in the stratigraphy of the property is not known but it is proximal to the zone of carbonatization in the northwest portion of the grid, and it lies on a prominent magnetic low.

contd. ...

The sediments, volcanoclastics and mafic volcanics have been folded into a broad antiform with a fold axis plunging to the northeast at a shallow angle. The dykes traverse the grid approximately parallel to the south limb of the antiform. The dykes are not seen north beyond the nose of the fold but magnetics suggest they continue through the property with the same northerly trend.

GEOPHYSICAL SURVEYS

Three detailed geophysical surveys have been completed over the eight claims in question. These comprise magnetic, V.L.F. em. and horizontal loop em. Reading intervals vary from 12.5 m for magnetic and V.L.F. observations to 25 m for the horizontal loop em.

Magnetics:

The magnetic data have been collected with a Geometrics model G-816 proton precession magnetometer with a reading sensitivity of 1 gamma synchronized with a Canadian Mining Geophysics MR-10 self recording base station magnetometer. All data have been corrected for diurnal drift and presented as contoured plans at a contour interval of 25 gammas and at a scale of 1:2000, Dwg.No.184-34.

The dominating magnetic feature of the survey area is the northerly trending band of erratic values between lines 7E and 11E. This melange of values corresponds to a mapped dyke swarm consisting of magnetite rich gabbros. It is impossible to determine the width of an individual dyke as the survey lines roughly parallel the strike of the dykes. Four follow-up lines,

contd. ...

Dwg.No.184-34A, were run in an east-west direction for a total of 1.0 km. These data indicate that three dykes enter the property to the south and appear to bifurcate northward.

A magnetic low trends northeast between lines 3E and 6E and coincides with a single outcrop of diorite suggesting that this particular magnetic feature may be related to an intrusive body.

The magnetic survey failed to define the altered mafic volcanic-intermediate tuff interface delineated by surficial mapping in the southwest corner of the property.

V.L.F.:

The V.L.F. em. coverage has been effected with a Geonics E.M.16 receiver tuned to NAA transmitting at 17.8 Khz from Cutler, Maine. The E.M.16 receiver measures the in-phase and quadrature components of the secondary vertical field to an accuracy of about ± 2% of the primary field. The data collected is presented in profile and contoured (Fraser's filter) at a scale of 1:2000, Dwgs.No.184-35 and 184-35A.

The axes of the conductive features trend east-west undisturbed by the underlying folded geology. This in fact was expected as the foliation throughout the claim block is essentially east-west. The anomalies although maintaining a preferred direction also conform to surficial topography, marking the interface between high, thin overburden cover, ground and wet swampy ground typified by lacustrine clays.

In the northwest corner a legitimate conductive feature manifests itself near the mapped contact between intermediate tuffs and graphitic phyllites.

contd. ...

Horizontal loop:

The horizontal loop em. survey was carried out utilizing the MaxMin II equipment produced by Apex Parametrics. Readings of the in-phase and out-of-phase vertical secondary field in this instance were taken with a coil separation of 100 m. Two frequencies, 888 Hz and 3555 Hz, were applied and are presented in profile form in Dwgs.No.184-35 and 184-36A.

Besides the obvious cultural anomaly (power line) only two conductive features emerge that are thought to be reflecting a bedrock source. The first, situated in the northwest corner, appears to be defining the proposed unit of phyllitic material that may in part be graphitic. The second, located in the southwest sector conforms to the assumed contact between the heavily altered basaltic volcanics and the overlying intermediate tuff. The trend of the V.L.F. anomalies duplicate those of the horizontal loop.

CONCLUSIONS

The Cody property is underlain by metamorphosed meta-basalts and intercalated intermediate volcanoclastics and sediments. The rocks were later folded about a northeast plunging antiformal axis. Following folding, the area was intruded by north-trending gabbro dykes.

Strongly to moderately carbonatized rock has been mapped in the northwest corner of the property and coincides with previously identified Au and As soil geochemical anomalies. Further soil sampling has been carried out over selected areas and grab samples taken from old trenches near geochemical anomalies. Results of both the geochemical survey and trench resampling were inconclusive.

RECOMMENDATIONS:

In light of past assay results obtained on or in proximity to the present property it appears that more work is warranted consequently the following recommendations are suggested.

(1) Magnetic and E.M.16 surveys on lines cut in an east-west direction from 0N to 7N for a total survey length of 12.8 line km.

(2) Stripping, using a bulldozer, in areas of shallow overburden and geochemical anomalies, to be followed by geological mapping and trench sampling.

(3) Limited diamond drilling near the nose of the antiform within favourable geological units.

contd. ...

(4) Overburden drilling and sampling in vicinity of geochemical anomalies and along favourable geophysical anomalies.

Respectfully Submitted,

R. Cote, Geologist

D.D. Davidson, Project Geologist

References:

Leahy, E.J. 1971 — Geology of the Nighthawk Lake Area, District of Cochrane, ODMNA Geological Report 96.

Pyke, D.R. 1981 — Assessment Report of Geochemical Survey, Cody Township Property, Porcupine Mining Division, Ontario, for Placer Development Limited.

A P P E N D I X I

Rock Samples

ROCK SAMPLES

Hand Samples	Assay No.	Location	Remarks
CG-82-1		0+00E/4+55N	Schistose intermed. tuff
-2		0+00E/4+14N	Reworked tuff
-3		1+00E/4+75N	Schistose intermed. tuff
-4		3+25E/0+30N	Plagioclase-Chlorite-Calcite-Schist
-5		4+25E/6+00N	Diorite
-6	3295	3+65E/1+00N	Quartz Vein
-7		3+70E/0+80N	Chlorite-Calcite Schist
-8		6+00E/2+95N	Flow Breccia
-9	3294	3+00E/0+75N	Quartz Vein
-10		7+30E/4+70N	Reworked Tuff
-11		7+00E/4+75N	Schistose intermed. tuff
-12		6+80E/4+20N	Gabbro
-13		7+00E/3+75N	Reworked Tuff
-14		6+95E/3+25N	Fine Gabbro-Diabase
-15		9+00E/1+00N	Felsic Flow? Cherty
-16		9+00E/5+40N	Gabbro
-17		9+00E/5+50N	Tuff
Cody-1		3+00E/5+50N	Reworked Tuff
-2		7+00E/3+75N	Reworked Tuff
-3		7+00E/2+75N	Reworked Tuff
-4		9+00E/1+00N	Felsic Flow? Cherty
-5		9+00E/1+00N	Reworked Tuff
Bulk Samples			
CG-82-T1	3384	3+00E/5+50N	Aplite
-T2	3385	3+00E/5+50N	Carbonatized Slate
-T3	3386	3+00E/5+50N	Phyllite
-T4	3387	3+00E/5+50N	Mineralized Float
-T5	3388	3+00E/5+75N	Phyllite
-T6	3389	5+00E/3+25N	Quartz Vein
-T7	3390	5+00E/3+25N	Contact
-T8	3391	5+00E/3+25N	Reworked Tuff

APPENDIX II

Assay Results

ASSAY RESULTS

Assay No.	Location	Au (ppm)	Ag (ppm)	As (ppm)
3294	3+00E/0+75N	Nil	Nil	---
3295	3+65E/1+00N	5	Nil	---
3384	3+00E/5+50N	Nil	Nil	65
3385	3+00E/5+50N	Nil	Nil	122
3386	3+00E/5+50N	Nil	Nil	297
3387	3+00E/5+50N	Nil	0.2	25
3388	3+00E/5+75N	Nil	Nil	41
3389	5+00E/3+25N	Nil	Nil	<1
3390	5+00E/3+25N	Nil	Nil	2
3391	5+00E/3+25N	Nil	Nil	6

Ministry of Natural Resources
Ontario

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

2.5
#454

The Mining Act

42A11SE0201 2.5253 CODY

900

Type of Survey(s): Magnetometer, VLF, MaxMin & Geology	Township or Area: Cody
Claim Holder(s): Placer Development Limited	Prospector's Licence No.: T.837
Address: Suite 2600, 401 Bay Street, Toronto, Ontario. M5H 2Y4	
Survey Company: Geosearch Consultants-Magnetometer Placer Development Limited	Date of Survey (from & to): 01 11 81 (Day Mo. Yr.) 30 09 82 (Day Mo. Yr.)
Total Miles of line Cut: 15.95 km	
Name and Address of Author (of Geo-Technical report): Mr. D.D. Davidson, 2600, 401 Bay St., Toronto, Ontario. M5H 2Y4	

Credits Requested per Each Claim in Columns at right

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

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

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P.	529931	
	529932	
	529933	
	529934	
	529935	
	529936	
	529937	
	529938	

RECEIVED
DEC - 9 1982
MINING LANDS SECTION

PORCUPINE MINING DIVISION
RECEIVED
DEC

RECORDED
DEC - 7 1982
Receipt No.

Total number of mining claims covered by this report of work: 8

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.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
800	Dec 7/82	
	Date Approved as Recorded: 82.07.13	Branch Director of Mining Recording

Date: Dec. 3/82

Recorded Holder or Agent (Signature): J.H. Faulkner

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
Mr. D.D. Davidson, 2600, 401 Bay St.,
Toronto, Ontario. M5H 2Y4

Date Certified: Nov. 29/82

Certified by (Signature):

Ministry of Natural Resources
Ontario

Geotechnical Report Approval

File 2.5253

Feb 3/83

Mining Lands Comments

☑ To: Geophysics Mr Barlow

Comments

☑ Approved	☐ Wish to see again with corrections	Date Feb 28/83	Signature Roger Barlow

☑ To: Geology - Expenditures Mr Kustra

Comments

☑ Approved	☐ Wish to see again with corrections	Date Feb 25/83	Signature C Kustra

☐ To: Geochemistry

Comments

☐ Approved	☐ Wish to see again with corrections	Date	Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1593 (81/10)

1982 12 2]

2.5253

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

Dear Sir:

We have received reports and maps for a Geophysical (Geological, Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Maining Claims P.529931 et al in the Township of Cody.

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 you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1350

DW:sc

cc: Placer Development Limited
Toronto, Ontario
Attn: D.D. DAvidson.

PLACER DEVELOPMENT LIMITED

December 3rd, 1982

File: 11-2-184-3
Cody Twp.

Mr. E.F. Anderson,
Land Management Branch,
Ministry of Natural Resources,
Room 6450, Whitney Block,
Queen's Park,
Toronto, Ontario
M7A 1W3

Re: Mining Claims P.529931-529938 incl.
Cody Township, Ontario

Dear Sir,

Please find enclosed report and maps in duplicate covering linecutting, geology and 3 geophysical surveys on the above mentioned claim group. Technical Data Statement and a copy of the Report of Work are also attached. This work is being submitted under "Special Provisions".

Report of Work forms have been forwarded to the Mining Recorder in Timmins.

Should you have any questions regarding this matter please contact this office.

Yours truly,

PLACER DEVELOPMENT LIMITED

F.H. Faulkner

FHF/of
encls.

c.c. Mining Recorder,
60 Wilson Ave.,
Timmins, Ontario
P4N 2S7

Ontario

Ministry of Natural Resources

File _____

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) Mag, VLF, MaxMin, Geology

Township or Area Cody

Claim Holder(s) Placer Development Limited
2600, 401 Bay St., Toronto, Ontario

Survey Company Geosearch Consultants, Magnetometer ~~Placer Development Limited~~

Author of Report Mr. D.D. Davidson

Address of Author As above

Covering Dates of Survey Nov.1, 1981 to Sept.30, 1982 (linecutting to office)

Total ~~Miles~~ Km of Line Cut 15.95 km

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	40
–Magnetometer	20
–Radiometric	
–Other VLF	20
Geological	20
Geochemical	

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

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

DATE: Nov. 29/82 SIGNATURE: J.H. Faulkner.
Author of Report ~~or~~ Agent

Res. Geol. _____ Qualifications 2.1109

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
P.	529931
P.	529932
P.	529933
P.	529934
P.	529935
P.	529936
P.	529937
P.	529938

RECEIVED
DEC - 3 1982
MINING LANDS SECTION

If space insufficient, attach list

TOTAL CLAIMS 8

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

VLF - 1046
Mag - 1072

Number of Stations 542 Number of Readings MaxMin-479 each freq.

Station interval VLF & Mag - 12.5 m, MaxMin 25m Line spacing 100 meters

Profile scale 1 cm = 10%

Contour interval 25 gammas

MAGNETIC

Instrument Geometrics G.816 Proton Magnetometer

Accuracy – Scale constant 1 gamma

Diurnal correction method MR-10 Recorder coupled to a G-816 Magnetometer

Base Station check-in interval (hours) Rdgs. recorded each minute

Base Station location and value

ELECTROMAGNETIC

Instrument Apex MaxMin II HLEM & Geonics VLF-EM.16

Coil configuration Horizontal Mode - MaxMin Coupled

Coil separation 100 meters

Accuracy ± 2% resolution

Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency 1777 & 3555 Hz, NAA, Cutler, Maine 17.8 Khz
(specify V.L.F. station)

Parameters measured VLF-In-Phase & Quadrature Phase components of vertical magnetic field
As a percentage of horizontal primary field
Max-Min - In-Phase & Quadrature components of secondary field

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION
RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

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 _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

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 _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

MATHESON TWP. M.297

WHITNEY TWP. M.319

MACKLEM TWP. M.295

CARMAN TWP. M.266

Night Hawk Lake

Night Hawk Lake

Northeast Bay of Night Hawk Lake

Squaw Id.

Cemetery Pt.

Indian Burying Ground Surface Rights Reserved.

WATER LOT No. 17 L.O. 10759

BLOCK D L.O. 3244

Parcel "A" L.O. 931

Parcel "B" H.53 Deadman Id. L.O. 931

Parcel "C" L.O. 931

H.50 Auer Id.

H.51

H.52 Collihans

H.54 Pine Id.

H.55

H.56 L.O.

H.57

H.59

H.60

H.16

H.17

H.18

H.22

H.3

H.4 Camp Id.

Moose Id.

Part of Carman Twp.

Anniversary Id.

Bold Id. 12509

Gold Id.

Goose Cr.

Porcupine River

Redstone River

Roma L.P.

Gravel Pfile 39111

L.O. 1415

2.5253

42A11SE0201 2.5253 CODY

200

THE TOWNSHIP OF

CODY

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

The whole of Moose Island is attached to the Township of Cody. File 23642.

This Township lies within the Municipality of The city of Timmins

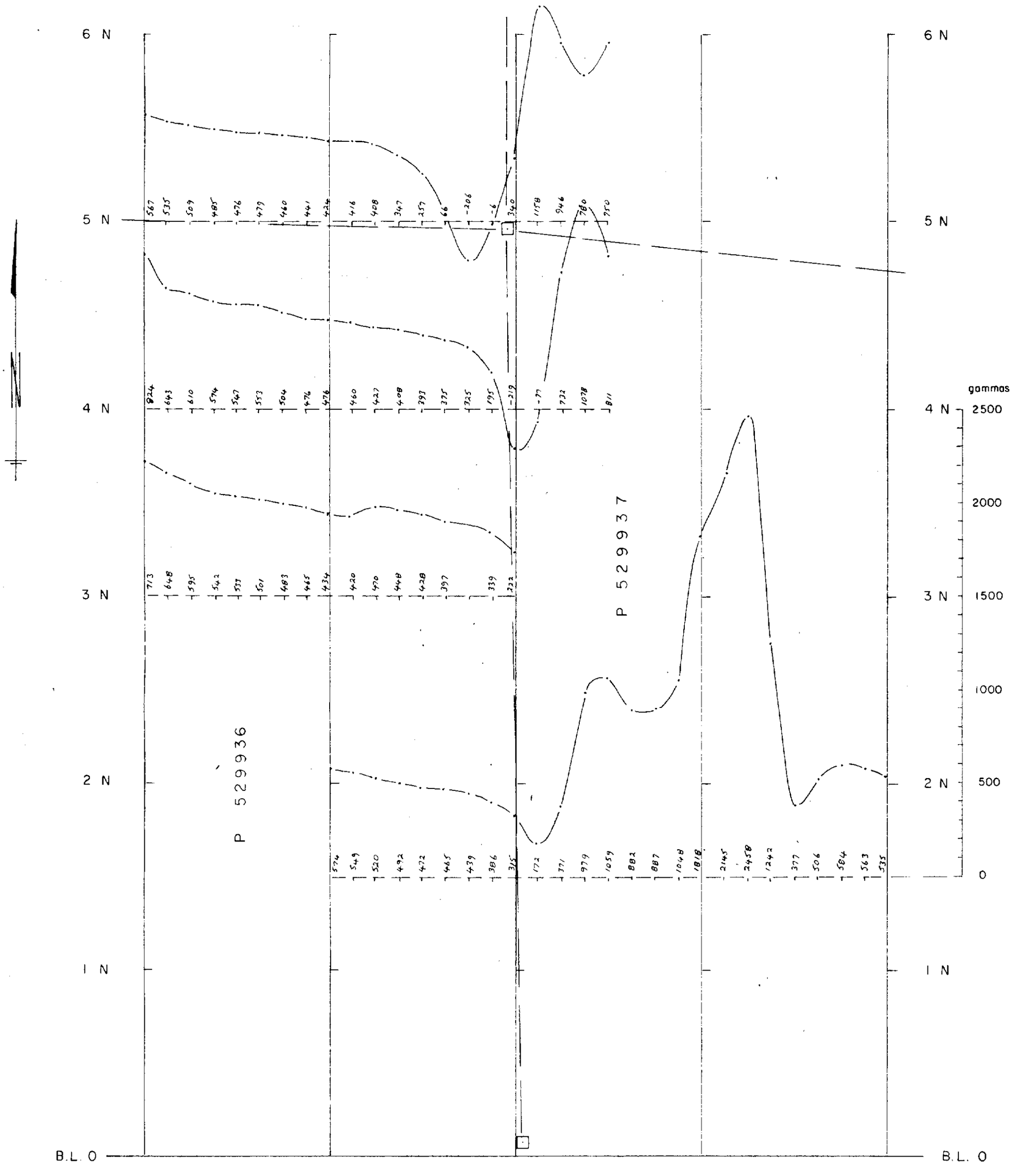
Reserve flooding rights to Ont Hydro to elevation 903.5' T.B.N.D. Railway datum on Night Hawk lake and that portion of the river between Night Hawk lake and Frederick House Lake

Areas withdrawn from staking under Section 3 of the Mining Act (R.S.O. 1970).

	File	Date	Disposition
(R1) W.53/76	16539	10/9/76	S.R.O.

PLAN NO. M.270

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Instrumentation : Geometrics G 816 magnetometer

Profile Scale : 1 cm = 200 gammas

Datum : 59,000 gammas

PLACER DEVELOPMENT LIMITED

GROUND MAGNETIC SURVEY

FOLLOW-UP on parts of P·529936 & 937

CODY - BUSH GRID
Cody Twp.

COMSTATE OPTION
Timmins Area
Porcupine Mining Division, Ontario

DRAWN J.G.W.	SCALE 1:2000	NTS 42-A-11
TRACED	DATE Oct. 1982	VENTURE 184 (IV)
APPROVED		Dwg. No. 184 - 34 A

2.5253

Whitney Twp. | Cody Twp.

Lot 12 | Lot 11 | Lot 11 | Lot 10

P 529931 P 529932 P 529933 P 529934

P 529935 P 529936 P 529937 P 529938

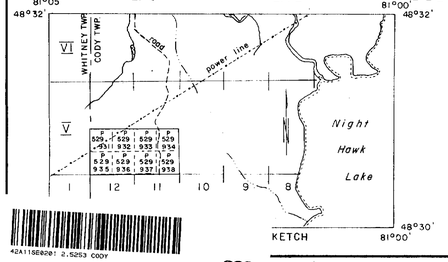
power line

8 N — 7 N — 6 N — 5 N — 4 N — 3 N — 2 N — 1 N — BL 0+00

L. 0 L. 1E L. 2E L. 3E L. 4E L. 5E L. 6E L. 7E L. 8E L. 9E L. 10E L. 11E L. 12E L. 13E L. 14E L. 15E L. 16E

Pi 634099
Pi 634100

Con. V — Con. IV



Mag North (-29°W) Astro. North

to transmitter NAA

Instrumentation : Geonics EM-16
Transmitter : NAA, Cutler, Maine
Direction : looking grid south

In-phase readings filtered as follows :-

Add consecutive pairs of readings
Take the difference between alternate pairs (north-south)
Plot the difference & contour positive values

Contour Interval : 10

NOTE : For profiled data see Dwg. No. 184-35

□, ⊠ claim post - observed, inferred

Date of survey : Jan.-Feb., 1982

PLACER DEVELOPMENT LIMITED

VLF GROUND ELECTROMAGNETIC SURVEY
EM-16 CONTOURS - FRASER'S FILTER
CODY-BUSH GRID
Cody Twp.
COMSTATE OPTION
Timmins Area
Porcupine Mining Division, Ontario

DRAWN J.G.W.	SCALE 1:2000	NTS 42-A-11
TRACED	DATE Oct. 1982	VENTURE 184 (IV)
APPROVED		Dwg. No. 184-35 A

2.5253

Whitney Twp.

Cody Twp.

Line 0E

1E 2E 3E 4E 5E 6E 7E 8E 9E 10E 11E 12E 13E 14E 15E 16E

8N 7N 6N 5N 4N 3N 2N 1N

Base Line 0+00

POWER LINE

PICKET ERROR TWO GRIDS

P-529 931

P-529 932

P-529 933

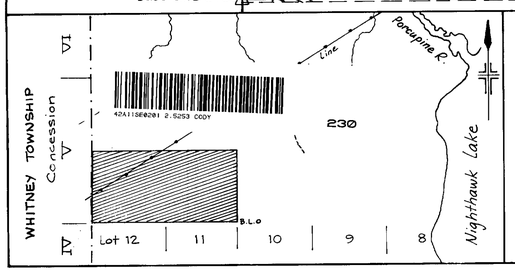
P-529 934

P-529 935

P-529 936

P-529 937

P-529 938



LOCATION MAP
Scale: 1 inch to ½ mile.
N.T.S. 42-A-11

Contour interval..... 25 gammas
25 gamma contour.....
100 gamma contour.....
500 gamma contour.....
Depression.....

LEGEND

- READINGS IN GAMMAS
- FOR ABSOLUTE VALUES, ADD 59,000 GAMMAS TO READINGS
- △ – BASE STATION - BASE LINE 0 AT LINE 0E

TOTAL FIELD MAGNETOMETER SURVEY
by
GEOSEARCH CONSULTANTS LIMITED
for
PLACER DEVELOPMENT LIMITED

CODY TWP. GRID

TIMMINS AREA
ONTARIO

PDL Dwg No 184-34

Date - January, 1982
Drawn - M.H.M.

Scale - 1 : 2,000

Map 82-10

2.5253

Whitney Twp. | Cody Twp.

Lot 12 | Lot 11 | Lot 10

P 529931 | P 529932 | P 529933 | P 529934 | P 529935 | P 529936 | P 529937 | P 529938

8 N – 7 N – 6 N – 5 N – 4 N – 3 N – 2 N – 1 N – BL 0+00

spruce & alders

spruce 10-15 cm

spruce & poplar 10-15 cm

old DDH (3m ob)

power line

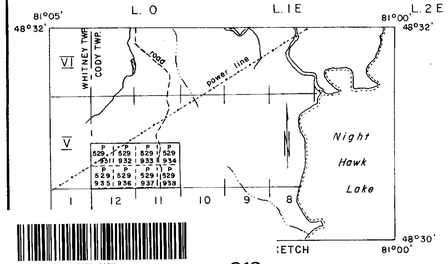
M(H) M(L) V

CG-82-1 CG-82-2 CG-82-3 corb. CG-82-4 CG-82-5 3 phyllitic CG-82-6 CG-82-7 CG-82-8 CG-82-9 Qz. vein CG-82-10 CG-82-11 corb. CG-82-12 CG-82-13 Qz. vein CG-82-14 CG-82-15 cherty CG-82-16 CG-82-17

Pi: 634099
Pd-634100

L. 0 L. 1E L. 2E L. 3E L. 4E L. 5E L. 6E L. 7E L. 8E L. 9E L. 10E L. 11E L. 12E L. 13E L. 14E L. 15E L. 16E

Con. V — BL 0+00 — Con. IV



Mag. North (29° W) Astro. North

Mapped : July , 1982

LEGEND

Rock Units

- Diorite
- Gabbro
- Slate and phyllite
- Intermediate volcanoclastics
- Chlorite carbonate schist

Symbols

- Claim post (observed, inferred) and claim line
- Swamp
- Higher ground
- Assumed geological contact
- Outcrop with quartz vein
- CG-82-2 Rock sample number & site
- Trench
- Anticline
- Foliation – inclined
- Lineation – plunging
- M(H) Axis of magnetic high
- M(L) Axis of magnetic low
- V VLF EM anomaly axis

PLACER DEVELOPMENT LIMITED

GEOLOGY

CODY-BUSH GRID
Cody Twp.
COMSTATE OPTION
Timmins Area
Porcupine Mining Division, Ontario

DRAWN R.C.	SCALE 1:2000	NTS 42-A-11
TRACED J.G.W.	DATE Oct. 1982	VENTURE 184 (IV)
APPROVED		Dwg. No. 184-33

2.5253

Whitney Twp. | Cody Twp.

Lot 12 | Lot 11

Lot 11 | Lot 10

8 N — 7 N — 6 N — 5 N — 4 N — 3 N — 2 N — 1 N — BL 0+00

P 529931 P 529932 P 529933 P 529934 P 529935 P 529936 P 529937 P 529938

power line

L. 0 L. 1E L. 2E L. 3E L. 4E L. 5E L. 6E L. 7E L. 8E L. 9E L. 10E L. 11E L. 12E L. 13E L. 14E L. 15E L. 16E

Con. V BL 0+00 Con. IV

P1- 634099
P4-634100

81°05' 48°32' 81°00' 48°32'

WHITNEY TWP. CODY TWP.

VI V

road power line

P 529 | P 529 | P 529 | P 529 | P 529
931 | 932 | 933 | 934

P 529 | P 529 | P 529 | P 529 | P 529
935 | 936 | 937 | 938

1 12 11 10 9 8

Night Hawk Lake

SKETCH 48°30' 81°00'

Mag. North 10° W
Astro. North

in-phase
quadrature
right-way cross-over
in-phase quad.
+20% 0 -20%

PROFILE SCALE : 1 cm = 10 %

⊡, ⊠ claim post - observed , inferred

Instrumentation : Geonics EM-16
Transmitter : NAA , Cutler, Maine
Direction : looking grid south
Date of survey : Jan.- Feb. , 1982

to transmitter NAA

NOTE : For Fraser's Filter see Dwg. No. 184 - 35A

PLACER DEVELOPMENT LIMITED

VLF GROUND ELECTROMAGNETIC SURVEY
EM-16 PROFILED DATA
CODY - BUSH GRID
Cody Twp.
COMSTATE OPTION
Timmins Area
Porcupine Mining Division, Ontario

DRAWN J.G.W.	SCALE 1:2000	NTS 42-A-11
TRACED	DATE Oct. 1982	VENTURE 184 (IV)
APPROVED		Dwg. No. 184-35

2.5253

Whitney Twp. / Cody Twp.

Lot 12 / Lot 11 / Lot 10

8 N – 7 N – 6 N – 5 N – 4 N – 3 N – 2 N – 1 N

P 529931 P 529932 P 529933 P 529934 P 529935 P 529936 P 529937 P 529938

power line

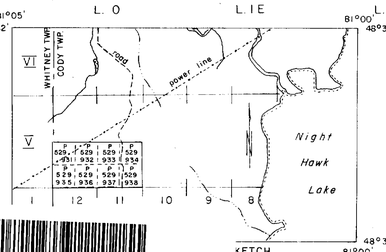
BL 0+00

L. 0 L. 1E L. 2E L. 3E L. 4E L. 5E L. 6E L. 7E L. 8E L. 9E L. 10E L. 11E L. 12E L. 13E L. 14E L. 15E L. 16E

Con. V — BL 0+00 — Con. IV

P1 634099
P4 634100

81°05' 48°32' 81°00' 48°30'



MAG North (1982 W)
Astro North

in-phase / quadrature

+20% 0 -20%

PROFILE SCALE : 1 cm = 10%

DATE OF SURVEY : Jan.- Feb. 1982

□, ⊠ claim post – observed , inferred

PLACER DEVELOPMENT LIMITED

GROUND ELECTROMAGNETIC SURVEY
MAXMIN
Freq. 1777 Hz. ; Cable length 100 m
CODY – BUSH GRID
Cody Twp.
COMSTATE OPTION
Timmins Area
Porcupine Mining Division, Ontario

DRAWN F. H. F.	SCALE 1 : 2000	NTS 42-A-11
TRACED	DATE Oct. 1982	VENTURE 184 (IV)
APPROVED		Dwg. No. 184-36

2.5253

42A11SE0201 2.5253 CODY

Whitney Twp. | Cody Twp.

Lot 12 | Lot 11

Lot 11 | Lot 10

8 N — 7 N — 6 N — 5 N — 4 N — 3 N — 2 N — 1 N

P 529931 P 529932 P 529933 P 529934 P 529935 P 529936 P 529937 P 529938

power line

BL 0+00

L.0 L.1E L.2E L.3E L.4E L.5E L.6E L.7E L.8E L.9E L.10E L.11E L.12E L.13E L.14E L.15E L.16E

Pi 634099
P4-634100

Con. V — BL 0+00 — Con. IV

81°05' 48°32' 81°00' 48°32'

WHITNEY TWP. CODY TWP.

power line

Night Hawk Lake

P 529 931 | P 529 932 | P 529 933 | P 529 934

P 529 935 | P 529 936 | P 529 937 | P 529 938

1 12 11 10 9 8

ETCH 48°30' 81°00'

Mag. North (29° W) Astro. North

in-phase quadrature

+20% 0 -20%

PROFILE SCALE : 1 cm = 10%

DATE OF SURVEY : Jan. - Feb. 1982

□, ⊠ claim post - observed , inferred

PLACER DEVELOPMENT LIMITED

GROUND ELECTROMAGNETIC SURVEY
MAXMIN
Freq. 3555 Hz. ; Cable length 100 m
CODY - BUSH GRID
Cody Twp.
COMSTATE OPTION
Timmins Area
Porcupine Mining Division, Ontario

DRAWN F.H.F.	SCALE 1 : 2000	NTS 42-A-11
TRACED	DATE Oct. 1982	VENTURE 184 (IV)
APPROVED		Dwg. No. 184-36A

2.5253

42A11SE8261 2.5253 CODY

270