'83-#458A#-11326

Assessment Report for Dighem III Survey

Handel, Ravel, Chopin 1-2 Claims

NTS ~~93~~ 104-B/11-10 Liard Mining Division

Lat. 56° 37' N Long. 131° 00' W

Owned by: Du Pont of Canada Exploration

Operator: Placer Development Ltd.

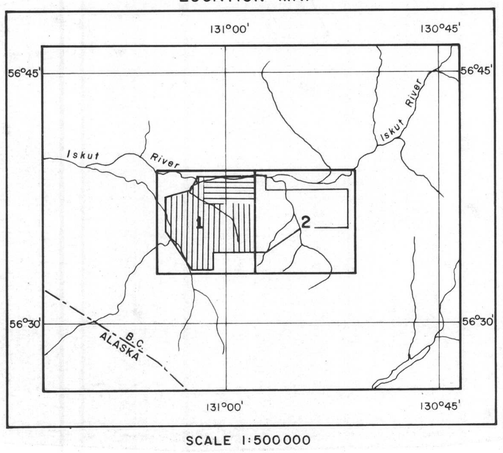
September, 1983

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,326

Part 3 of 3

LOCATION MAP



SCALE 1:500000

DIGHEM III SURVEY

ISKUT RIVER AREA, B.C.

ELECTROMAGNETIC ANOMALIES

FOR

PLACER DEVELOPMENT LIMITED

REGISTERED PROFESSIONAL ENGINEER
D.C. FRASER
PROVINCE OF ONTARIO

Scale 1:20,000

1 0 1 2 Kilometres

1/2 0 1/2 1 Miles

SHEET 1

Flight Line

2118 — Fiducial 2120 (Not recovered from film)
— Fiducial 2118 (Recovered from film)
— Fiducial 2110 (Not recovered from film)
2104 — Fiducial 2104 (Recovered from film)
301 — Line number and Flight direction

ANOMALY GRADE	EM GRADE SYMBOL	CONDUCTANCE RANGE (MHOS)
6	●	> 99
5	✱	50 - 99
4	●	20 - 49
3	◉	10 - 19
2	○	5 - 9
1	○	< 5
	×	indeterminate

DIGHEM anomalies are divided into six grades of conductivity — thickness product. This product in mhos is the reciprocal of resistance in ohms. The mho is a measure of conductance, and is a geologic parameter.

identifier name — Depth is greater than 15 m, 30 m, 45 m, 60 m

interpretive symbol — Inphase and Quadrature of Coaxial Coil is greater than 5 ppm, 10 ppm, 15 ppm, 20 ppm

Refer to list of anomalies in survey report for the actual ppm values for all coils, and for the conductance and depth of conductors.

The interpretation is shown by the interpretive symbol (see legend below). The left letter is the anomaly **identifier.** The horizontal rows of **dots** indicate anomaly amplitude on the flight record, and the vertical column gives the estimated depth. This depth may be unreliable because the stronger part of the conductor may be deeper or to one side of the flight line, or because of a shallow dip or conductive overburden effects.

SYMBOL	GEOPHYSICAL MODEL	BEDROCK CONDUCTOR	or	NON BEDROCK CONDUCTOR	MOST LIKELY
D_a	steeply-dipping thin dike	steeply-dipping planar conductor	or	metal culture which contacts conductive ground	discrete bedrock conductor
T_a	thick dike	thick conductor, with thickness greater than 10 m	or		
B_a	indeterminate	bedrock conductor	or		
P_a	conductor to one side of flight line	flight line passed off the end or side of conductor	or	flight line passed off the end or side of culture	
E_a	indeterminate	discrete conductor close to a much stronger conductor	or	edge of large conductive zone	
H_a	half space (close to surface)	conductive rock unit	or	deep conductive weathering or thick conductive cover	conductive rock or cover
G_a	buried half space	conductive rock unit, "buried" under non-conductive cover or under a dense forest canopy	or	deep conductive weathering or thick conductive cover, "buried" under a dense forest canopy	
S_a	horizontal sheet	weak bedrock conductor masked by conductive cover	or	thin conductive cover or, occasionally, culture which contacts conductive cover	conductive cover
R_a	horizontal ribbon	flatly-dipping narrow conductor (not computer picked)	or	narrow surface conductor, e.g., stream sediments; or large fenced area	culture
C_a	sphere, horizontal disk	steeply-plunging compact conductor	or	metal roof or fenced yard	
L_a	line	bedrock conductor masked by culture	or	fence, pipeline, power line	
$a^?$	"a" is one of the above symbols; "a?" means that the correct identification of the geophysical model is only a reasonable possibility, rather than being a reasonable probability				
?	probable aerodynamic noise, meaning that conductive material may, in fact, not exist				

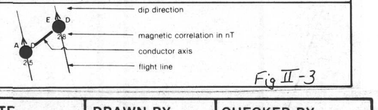
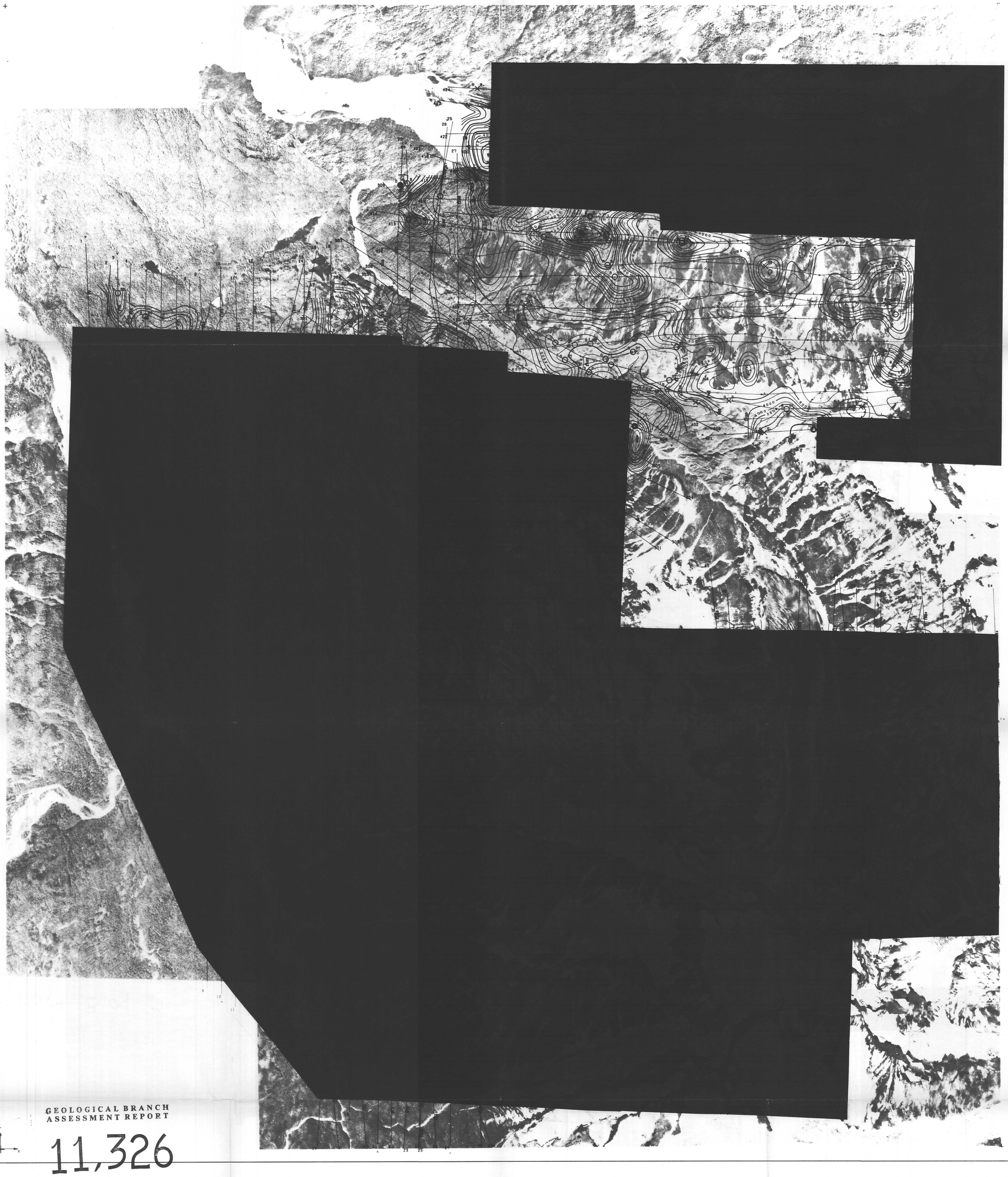


Fig II-3

JOB	DATE	DRAWN BY	CHECKED BY
176	SEPT./83	FM	R.D.



GEOLOGICAL BRANCH
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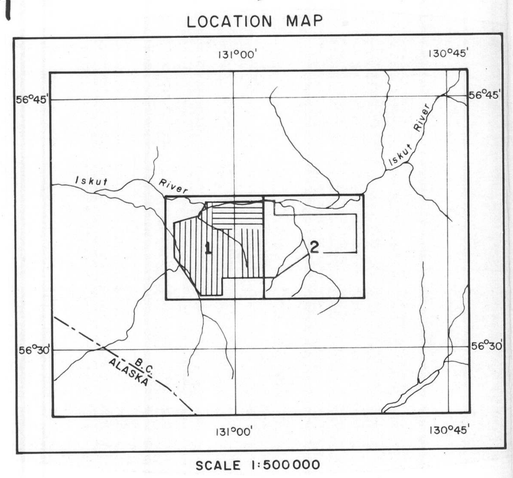
Part 3 of 3

LOCATION MAP



SCALE 1:500000

DIGHEM III SURVEY

ISKUT RIVER AREA, B.C.

RESISTIVITY

FOR

PLACER DEVELOPMENT LIMITED

REGISTERED PROFESSIONAL ENGINEER
D. C. FRASER
PROVINCE OF ONTARIO

Scale 1:20,000

1 0 1 2 Kilometres

1/2 0 1/2 1 Miles

Flight Line

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2104 — Fiducial 2104 (Recovered from film)

301 ^ Line number and Flight direction

LEGEND

Contours in ohm — m
at ten intervals per decade

1000
800
600
500
400
300
250
200
150
125
100

Note

The numbers face in the direction of increasing value.

SHEET 1

Fig II-4

JOB	DATE	DRAWN BY	CHECKED BY
176	SEPT./83	fm	2.0.

GEOLOGICAL BRANCH
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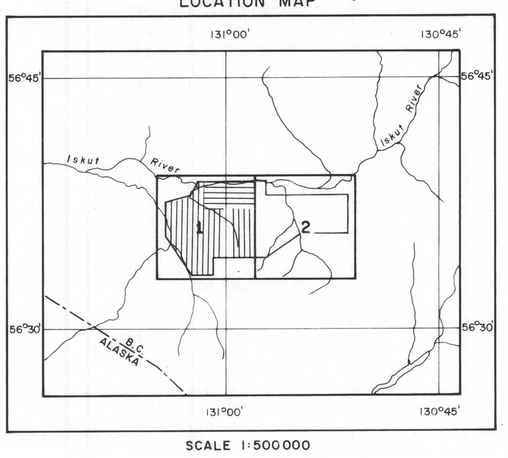
Part 3 of 3

LOCATION MAP



SCALE 1:500000

DIGHEM^{III} SURVEY

ISKUT RIVER AREA, B.C.

MAGNETICS

FOR

PLACER DEVELOPMENT LIMITED

REGISTERED PROFESSIONAL ENGINEER
D. C. FRASER
PROVINCE OF ONTARIO

Flight Line

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- Fiducial 2110 (Not recovered from film)
- 2104 — Fiducial 2104 (Recovered from film)
- 301 ^ — Line number and Flight direction

ISOMAGNETIC LINES
(total field)

- 1000 — 1 000 nT
- 100 — 100 nT
- 20 — 20 nT
- 10 nT
- magnetic depression

Magnetic Inclination within the survey area: 74°

Scale 1:20,000

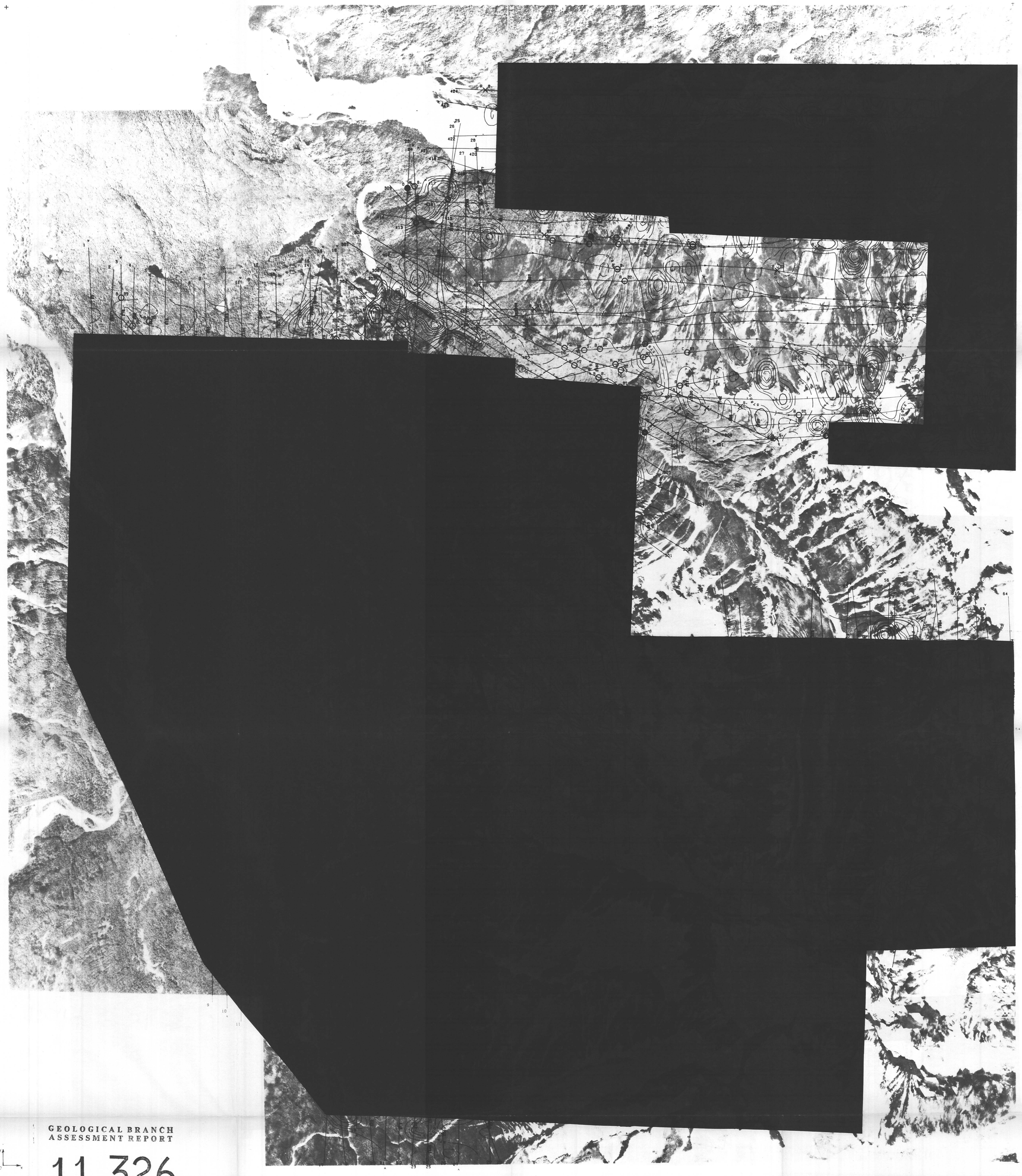
1 0 1 2 Kilometres

1/2 0 1/2 1 Miles

SHEET 1

Fig II-5

JOB	DATE	DRAWN BY	CHECKED BY
176	SEPT./83	PM	Z. D.



GEOLOGICAL BRANCH
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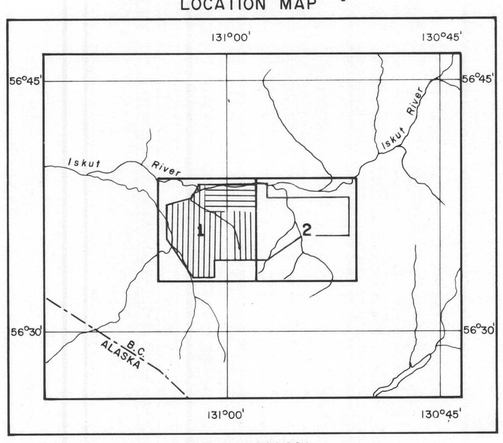
LOCATION MAP



SCALE 1:500000

DIGHEM^{III} SURVEY

ISKUT RIVER AREA, B.C.

ENHANCED MAGNETICS

FOR

PLACER DEVELOPMENT LIMITED

REGISTERED PROFESSIONAL ENGINEER
D. C. FRASER
PROVINCE OF ONTARIO

Scale 1:20,000

1 0 1 2 Kilometres

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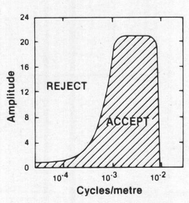
ISOMAGNETIC LINES
(enhanced field)

5000 — 5 000 nT
1000 — 1 000 nT
200 — 200 nT
100 nT
magnetic depression



Frequency response of magnetic operator

SHEET 1

Fig II-6

JOB	DATE	DRAWN BY	CHECKED BY
176	SEPT./83	FM	Z. D.