

84-#217 - 12096

ASSESSMENT REPORT

TYPE: DIAMOND DRILLING, GEOPHYSICAL,
NTS LOCATION: 921/9W
LATITUDE: 50° 40'
LONGITUDE: 120° 27'
MINING DIVISION: KAMLOOPS
CLAIMS: CID-1, CID-2, Winty C.G.
OWNER: COMET INDUSTRIES LTD.
OPERATOR: " " "
AUTHOR: N.B. Vollo, P.Eng.
DATE: MARCH 15th, 1984

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,096

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SUMMARY

The CID Group is located within the Iron Mask Batholith at Kamloops, adjoining east of the producing Afton Mine. VLF-EM and magnetic surveys were completed over 13 km of grid to explore an ENE trending string of small mineralized zones. Three holes totalling 294 m were diamond drilled to test VLF conductors, with negative results.

GENERAL

The property is located within the western limits of the City of Kamloops, adjoining the producing Afton Mine. It is crossed by the Trans Canada highway and as it consists entirely of grassland, all parts are readily accessible. Surface rights are held by Comet Industries Ltd. and Afton Mines.

CLAIMS

The CID claims are restaking of the abandoned former Debs, Ors, DMs, Lornas, ROs, EBs, etc., as follows:

CID-1 to 5, record nos. 4564 - 68, 71 units.
OR-11, -13,-14, record nos. 722,724,725, 4 units
Bonnie Jean Fr., record no. 780
Delta 1061 Fr., record no. 943.
RO-61, record no. 48255.
25 Crown Grants, Lot. Nos. 878-80, 1036, 1050,
1066-68, 1301-02, 1311, 1340-42, 1747, 4666-67 and
5622-29 inc.
Mineral Lease No. 21, Iron Cap.

All are in the Kamloops M.D. and held by Comet Industries Ltd. and Davenport Industries Ltd.

HISTORY AND PREVIOUS WORK

The former Iron Mask mine produced, between 1904 and 1928, 5,000,000 lbs of copper and 3,800 oz. of gold from 180,000 tons of ore, and formed part of the present property. The property has been extensively explored since the initial discoveries were made at the turn of the century. Since the discovery of the Afton deposit in 1972, some 40,000 m of percussion, diamond and rotary drilling have been completed by Comet, Getty Mines Limited, Canadian Superior Exploration and Craigmont

Mines Limited. Several copper-gold discoveries have been made, the largest of which is the Big Onion zone, estimated by the writer to contain more than 2,300,000t grading 0.83% Cu, 0.4g/t Au and 8 g/t Ag, mineable by surface methods.

GEOLOGY

The property is within the Iron Mask batholith, an alkaline intrusive complex coeval with the enclosing Nicola volcanic rocks. The complex is overlain unconformably by Tertiary sediments and volcanics and extensively disrupted by Tertiary faulting.

Mineralization appears to be controlled by faulting. The Erin and Iron Mask mines were on ENE trending, steeply dipping, relatively high grade copper zones. The Big Onion zone is controlled by NW striking faults, part of the Galaxy fault system. Mineralization occurs mostly in Iron Mask diorite or picrite basalt, often associated with small bodies of Cherry Creek monzonite.

WORK PROGRAM

A string of small mineralized zones extends from the Afton boundary in an ENE direction to the Crescent zone, a distance of more than 2 km, much of which is overburden covered. The present program was designed to explore for hidden, good grade, deposits of the Erin-Iron Mask mine type along this trend. 13 km of grid was chained and VLF-EM and Total Field magnetic surveys completed. Several moderately strong EM conductors were defined near known mineralization and two of these were tested by three diamond drill holes totalling 294 m.

VLF-EM SURVEY

Readings were taken at 25 m intervals along lines 100 m apart, using a Ronka EM-16 receiver and NAA, Cutler, Me., as transmitter. Readings, in per cent, were reduced by the Fraser method and are shown contoured on Plate I. The survey defined two parallel ENE trending zones, both passing through areas of known mineralization, and containing moderately strong conducting sections. One, on lines 7500E-7600E, is 150 m on strike from the DM zone and percussion drill hole P-22 which intersected 122 m grading 0.53% Cu. A second, between lines 8400E and 8600E, is immediately north of the Crescent zone. Both are in drift covered areas and appear to have been missed by previous vertical holes.

MAGNETIC SURVEY

Readings were taken at 25 m intervals along lines 100 m apart using a Geometrics G-836 Total Field Proton magnetometer. Readings are shown contoured on Plate II and are field readings less 57,000 gammas. Correction for diurnal variation was made by looping traverses and correcting back to substations established along the baseline. Most traverses were made in less than 30 minutes and very little correction was required.

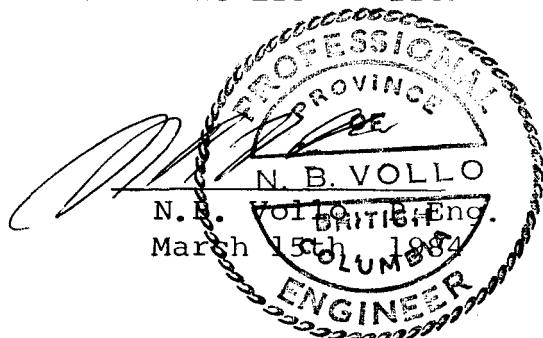
Magnetics generally confirm the ENE trend in this area. Relief is high, particularly along the southern boundary of the surveyed area where magnetite zones outcrop. None of the magnetic highs correlate with EM conductors.

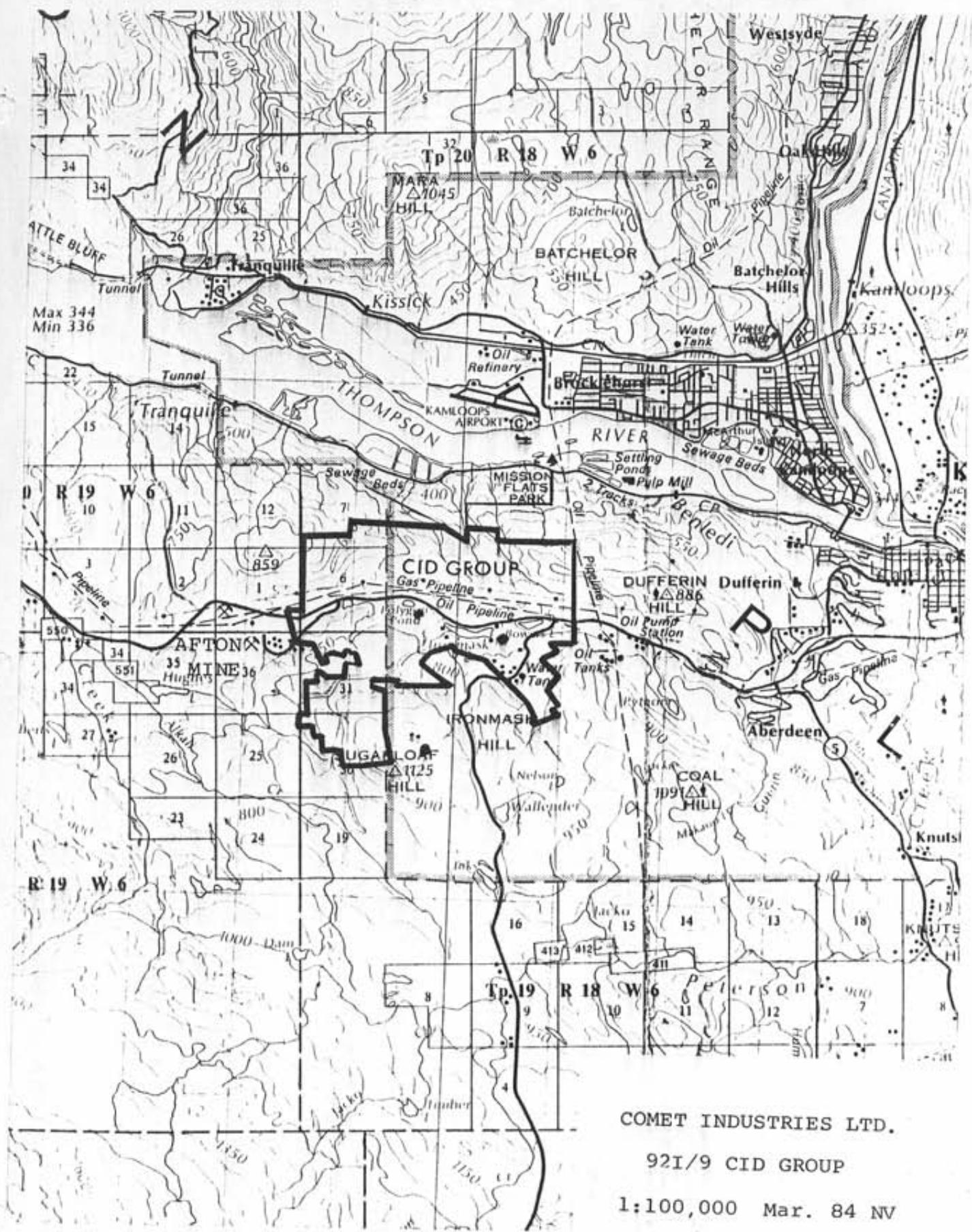
DIAMOND DRILLING

Two of the most promising EM conductors were drilled to test the possibility they might represent mineralization of the Erin - Iron Mask mine type. Holes 83-57 and 83-58 were drilled on sections 7500E and 7600E respectively, in opposite directions. Both intersected relatively unaltered and unmineralized monzonite and several clay fault gouge zones. Hole 83-59 was drilled south to test the conductor immediately north of the Crescent zone. It collared in relatively unaltered monzonite and passed through a strong fault zone into weakly mineralized Cherry Creek breccia. Drill logs are appended.

CONCLUSIONS

The ENE trending zones appear to be due to late faults that postdate and bound older mineralization, and do not give rise to zones of the Erin - Iron Mask type.





DIAMOND DRILL CORE LOG – SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-50°	160°

PROPERTY 92 1/9 C10 CLAIM CR-1 HOLE NO. 23-57
LATITUDE STARTED Aug 16/83 CORE SIZE 80
DEPARTURE FINISHED Aug 20/83 SECTION 2500 E
ELEVATION ~ 718 TOTAL LENGTH 90.5 10455 N
LOGGED BY N.B. Volk

DIAMOND DRILL CORE LOG - SAMPLE RECORD

PROPERTY 921/9 C10

HOLE No. 83-57

SHEET No. 2 of _____

DIAMOND DRILL CORE LOG – SAMPLE RECORD

PROPERTY 924/2 C 10

HOLE No. 83-57

SHEET No. 3 of _____

DIAMOND DRILL CORE LOG – SAMPLE RECORD

PROPERTY 12119 C10 CLAIM C10-1 HOLE NO. 83-58
LATITUDE STARTED Aug 21/83 CORE SIZE 5.0
DEPARTURE FINISHED Aug 27/83 SECTION 76.00 E
ELEVATION ~ 735' TOTAL LENGTH 101.5' LOGGED BY N.B. 10/10

DIAMOND DRILL CORE LOG - SAMPLE RECORD

PROPERTY 921/9 C10

HOLE No. 83-58

SHEET No. 2 of _____

DEPTH	DESCRIPTION	MINERALIZATION	SAMPLE	FROM	TO	m	Cu %	Zn %	Au ppm	Ag ppm
53.8	Monzonite - Coarse, pinkish to brown coloured, fairly massive	7% Py								
61.5	- clay gouge and gtz calcite - 40° to CA.									
61.6	- fairly shattered, with 5-10% gtz calcite	MINOR PT								
63.0	Lost core - mismatch									
64.3	as before, but more massive - somewhat leached and wavy	MINOR PT								
69.6	Lost core - mismatch									
71.0	as before - fairly sharp 85° fracture contact to	MINOR PT								
72.9	Micro monzonite - Dark pinkish grey, fine to medium grained, fairly massive - minor irregular calcite stringers - poorly defined, almost gradational contact to									
74.5	Monzonite - Light brick red, medium to coarse textured, mol. fractured and leached by 5-10' Calcite-gtz	MINOR PT								

DIAMOND DRILL COR. LOG — SAMPLE RECORD

PROPERTY 921/9 CD

HOLE No. 83-56

SHEET No. 3 of _____

DIAMOND DRILL CORE LOG – SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-50°	180°

PROPERTY 92 1/9 C10 *Watty C.G.* CLAIM ~~83-59~~ HOLE NO. 83-59

LATITUDE STARTED Aug 29/83 CORE SIZE BX

DEPARTURE FINISHED Sept 1/83 SECTION 8500 E

ELEVATION ~ 735 TOTAL LENGTH 96.3 10550 N

LOGGED BY *WBZ*

DEPTH	DESCRIPTION	MINERALIZATION	SAMPLE	FROM	TO	m	MoS ₂ %	Cu %
0.0	Coring							
0.5	Monzonite -							
	Pink, medium grained, tr py fairly massive							
2.8	1st coro-mylonites							
4.7-	as before - quartz fr py fresh to appearance, with scattered fragments of diorite and pyrite up to 10 cm.							
	very minor Qtz-calc. stringers -							
58.5	beromuti brecciated, 10% py as healed by pyrite - fracture fillings							
	K alt. evident 8 diss.							
60.0	Some - fairly coarse textured	1-2% py						
63.8	beromuti light gray, 1-5% py bleached.							
65.0	Fault zone -							
	Grey, crushed and bleached, with gouge 50 mm to - 3 m - steep at 35-40° Cf muddy gouge to	-						

DIAMOND DRILL CORE LOG - SAMPLE RECORD

PROPERTY 921/9 CID

HOLE No. 83-59

SHEET No. 2 of 3

DEPTH	DESCRIPTION	MINERALIZATION	SAMPLE	FROM	TO	m	Cu %	Zn %	Au ppm	Ag ppm
66.0	Micromonzonite? - Light brown red, finely grained, intensely, scattered and lined by googo seams and gtlz calcite veining. Excellent core - 100% rec.									
72.0	Fault zone - Crushed, mudd, micro monzonite, with scattered minor py 1% of vein breccia - At very breccia. Lost two ags of faulting									
73.5 - 76.5	Lost core									
75.0	Monzonite Breccia (cherry cr.)									
	Greenish, medium text - 1% Py Crpy weathered fractured and broken, with hematite staining									
76.5	Lost core - mislatch									
78.0 - 81.3	as before - Fragments of monzonite and plagioclase in a breccia matrix									
81.3 - 83.0	Lost core - mislatch as before - fragments 1% Py Cr of monzonite, plagioclase and magnetite, up to 2cm, in a comminuted monz-									

DIAMOND DRILL CORE LOG – SAMPLE RECORD

PROPERTY 921/9 C10

HOLE No. 83-59

SHEET No. 3 of 3

STATEMENT ON EXPENDITURES

L. LORANGER, CONTRACTOR

Line chaining, June 27th - July 5th,
13 km at \$100/km ----- \$ 1,300

N.B. VOLLO, P.ENG.

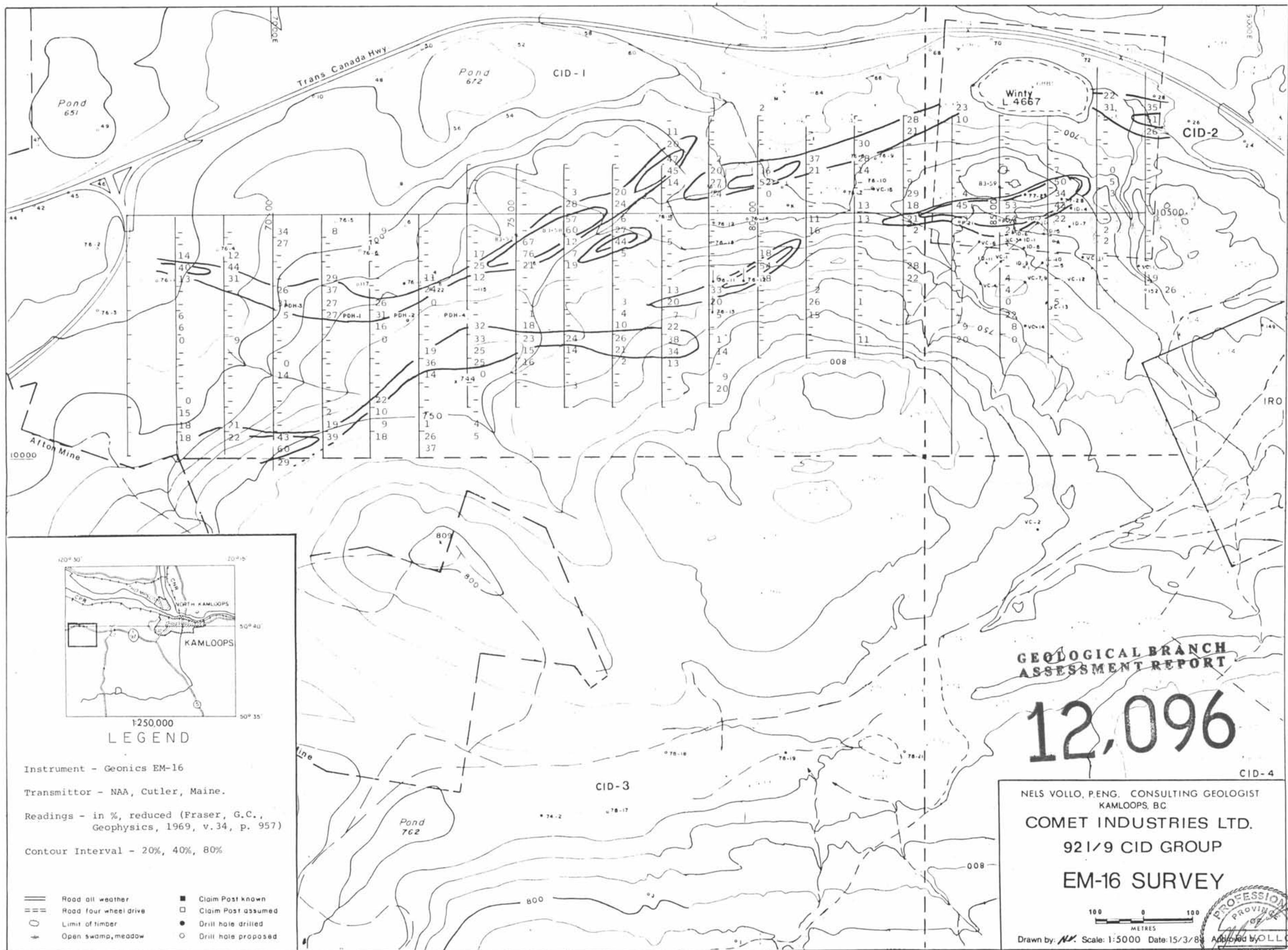
Supervision and layouts, June 1-27th,	.
2 days at \$400/day ----- -----	800
EM-16 Survey, June 30th, July 7th,	
1.5 days at \$400/day ----- -----	600
Magnetic Survey, July 7th, 13th,	
1.5 days at \$400/day ----- -----	600
Diamond Drill supervision, core log-	
ing, Aug. 11th - Sept. 3rd, 5 days --	2,000
Report, March 12-15th, 1984, 1.5 days	600
Vehicle expense, 513 miles at \$0.40 -	205
Printing & copying ----- -----	104
Core boxes, 60 at \$2.75 ----- -----	165

K.D. GRIFFITHS DRILLING

294m BQ drilling at \$47.75/m ----- 13,892

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Total ----- ----- ----- \$20,266



12,096

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KAMLOOPS, BC

COMET INDUSTRIES LTD.

921/9 CID GROUP

EM-16 SURVEY

