

(P.1)

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92-B-12
APRIL 21/82.



826559

LEECH RIVER

possible
Sicker holes ?
start mid-1980

- staked because of leech work. S. of ck Cowielem
- southern tip of VCR I.
- 4WD access.
- Leech R. Fmn. 600m local relief.
- 124 claims - 8 separate cont. CB's.
- stream sed. geochem. on 2 major drainages
- geology, rock geochem.
- Distem airborne EM/mag.

Stream sed.

- Cu, Pb, Zn, Au, Ag, Sb, As.
- all relatively flat.
- but gold placer claims - no anomaly.
- 2D up to 160 but very view.
- streams steep, wide, v. little fines.

(20 nest) ←
1/2kg samples.

heavy metal
con
+
regulacm.

geology

- 40% steep. 1:10,000 (1"=1000')

mafic volcs - m. to pillowed flows 50%
some frags. gabbroic plug.

- two bands.

sedo - graywacke, argillites 50%
some tuffs

- some cherts in volcs.

- minor felsic
volcs
in sedo
(lapilli tuffs)
<10%.

NW strike, 45-85° to NE.
folding tops may be east.

6km strike length.

LEECH
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rock geochem (75 samples) total. mainly in
notes.

felsics 2 of 3 were in felsics
note.

very broad $SiO_2, K_2O.$ 2 or 3
samples
define.

K_2O alteration.

no Mg alt., low Na_2O .

~~200-300 m spacing~~ in step areas. but
by roads.

on checking, low Na_2O are $> 95\% SiO_2$ - probably
of 3 veins.

Gossan Zone - crest of
Surrey Mt. float
.22 oz/T Au.

22 ppt Au.

Cu < 180 ppm

Zn < 130 ppm.

P4 - P0 - tr. cp4 -

1 Km.

1-5 m wide.

generally dips
south end ns.

sample is: $50/5 = P4/P0$.

LEECH p.3

Airbone

150-200 m spacing

2 dog = 11 to strike

- some fun. in sedo.
- some in vales - shorter strike length.

- 3 or 4. short strike length and in vales.

1 just W of gossan < 1000' 10-20 mhos.
chest step. - not sampled.

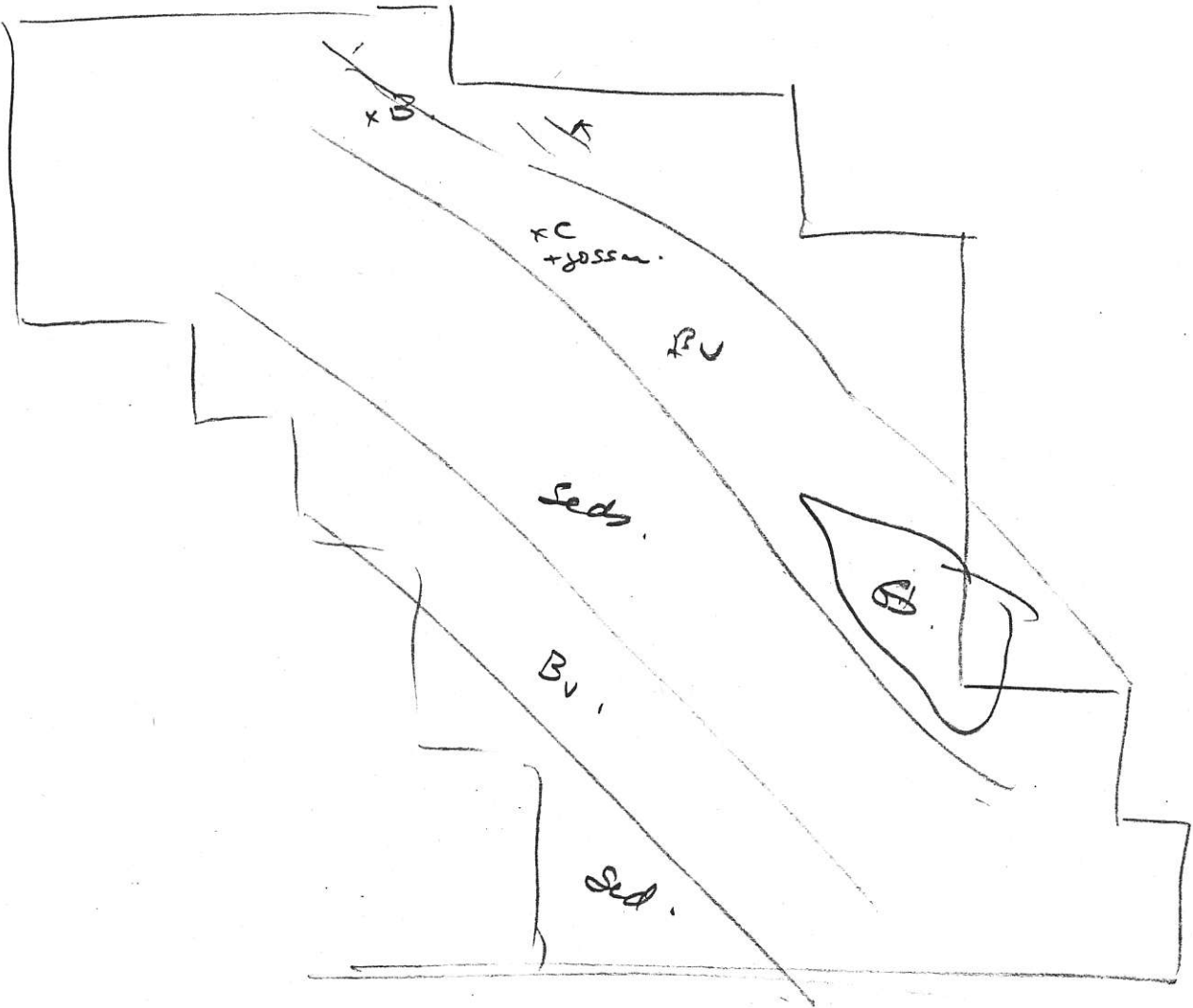
- 1 v. strong adj. to gabbro plug. 20-50 mhos

- mag quite flat.
also enhanced

Claims good for 3 years

expenditures: 65,000 + land acquisition.
+ prior recon.

Level P.4



plan:

to prospect conductors.
+ float.

then drill.

- commit to a reasonable program
- earn 50% when match.

CORPORATION FALCONBRIDGE COPPER

MEMORANDUM

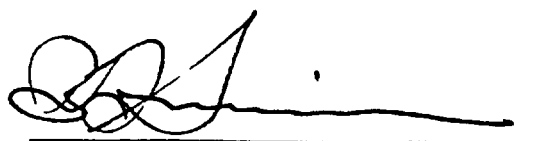
DATE: April 27, 1982
A
TO: M. J. Knuckey
COPIES A
COPIES TO: C. M. H. Jennings, H. R. Stockford
DE
FROM: B. D. Simmons
SUJET
SUBJECT: GULF MINERALS CANADA - BASE METAL PROJECTS

All of Gulf's base metal properties were briefly reviewed on April 13, 1982. Three properties (Burchell, Schreiber and Leech River) were reviewed in greater detail on April 21. A summary table and more detailed descriptions are attached.

Project area selection was based on regional interpretation and/or reconnaissance lithochemical surveys. Large property positions were acquired and surveyed by airborne EM. Follow-up work generally consists of small selected grids and limited anomaly drilling. No significant results have been obtained. Compared to our present projects and other opportunities currently available, the Gulf properties must be assigned low priority.

Ideally Gulf seek a package agreement but would be prepared to consider offers on an individual project basis. Agreement(s) would involve matching prior expenditures to earn a 50% participating interest.

No further action is recommended.



B. D. Simmons

BDS:cs
attachments

PROJECT	LOCATION	TARGET	GULF INTEREST	NO. OF CLAIMS	PREVIOUS EXPEND.	COMMENT
Schreiber	25 mi. E of Terrace Bay, Ont.	Vol. MS	100%	85	410,000	Results not encouraging
Reid	20 mi. NE of Timmins, Ont.	Vol. MS, Au	100%	962	2,300,000	Further work merited on low priority basis
Walton	50 mi. N of Halifax, N.S.	Sed. MS	100%	1243	1,500,000	Results not encouraging
Victoria R.	200 mi. NW of St. John's, Nfld.	Vol. MS	100%	594	85,000	Further work possibly merited but v. low priority
Ross R.	200 mi. NE of Whitehorse, Y.T.	Sed. MS	100%	333	150,000	Results not exciting. Low priority
Leech R.	30 mi. NW of Victoria, B.C.	Volc. MS	100%	124	65,000	Results not encouraging
Burchell	65 mi. NW of Thunder Bay, Ont.	Volc. NS	50%	34	409,000	Further work merited on low to moderate priority basis
TOTAL:					\$ 4,919,000	

SCHREIBER PROJECT

- LOCATION:
- 85 claims in two groups
 - Walsh and Tuuri Twps.
 - 25 mi. E of Terrace Bay, Ont. (42-D-15)
- CONCEPT:
- staked to explore poorly-defined reconn. geochem. anomalies in felsic volcanics
- PRIOR EXPENDITURE:
- \$410,000
- PRIOR WORK:
- airborne EM survey
(Geoterrex EM-33, 277 line km, 200 m lines)
 - 8 small grids of 4 or 5 lines each
 - VLF and mag. VLF response checked by one line of Maxmin
 - conductors tested by at least one hole each (14 holes, 1770 m)
 - best results 13.24% Zn over 3.35 m in quartz-carbonate veining
- COMMENT:
- reconn. geochem. anomalies are dubious. Generally only 1 or 2 samples and without significant Na₂O depletion
 - Zn-rich vein intersected is a common type of minor mineralization in this area

REID PROJECT

(only briefly reviewed)

LOCATION:

- 962 claims in one contiguous block plus several smaller areas
- Reid, Loveland, Thorburn Twps.
- 20 miles NE of Timmins, Ont. (42-A-13)

CONCEPT:

- a long-term project to explore an area of poorly-exposed felsic volcanics, 6 miles NW along strike from Kidd Creek

PRIOR EXPENDITURE:

- \$2.3 million

PRIOR WORK:

- 190 RCD holes on 1/2 x 1 mile pattern over entire property to determine bedrock geology and geochem. patterns in overburden
- weak down-ice dispersion from Thorburn Twp. indicated, some additional claims staked
- INPUT survey, some conductive response
- 50 diamond drill holes totalling 8500 m.
- heavily altered rhyolites intersected in Reid Twp. on projected Kidd Creek stratigraphy ($\text{Na}_2\text{O} < 0.5\%$)
- no significant mineralization intersected

COMMENT:

- altered rhyolites merit follow-up but specific targets not apparent from geophysics

WALTON PROJECT

(only briefly reviewed)

LOCATION:

- 1243 claims covering 34 mi. strike length
- south shore of Minas Basin
- 50 miles north of Halifax, N.S.

CONCEPT:

- exploration of the favourable Horton-Windsor contact on the basis of down-ice mercury anomalies in overburden

PRIOR EXPENDITURES:

- \$1.5 million

PRIOR WORK:

- orientation Hg survey at Magnet Cove
- 96 RCD holes totalling 1560 m.
- diamond drilling in areas of structure with associated down-ice response (40 DDH's, totalling 4980 m.)
- no significant intersections
- fabric studies suggest assumed direction ice-flow may be in error (NE rather than N-S)

COMMENT:

- probably considerable previous work along the favourable contact. Has not been compiled by Gulf

VICTORIA R. PROJECT (only briefly reviewed)

LOCATION:

- 594 claims tied on to Abitibi-Asarco property
- same volcanic belt as Buchans and Victoria River Mine
- 200 miles NW of St. John's, Nfld.

CONCEPT:

- acquired on the basis of reconnaissance lithochem. survey

PRIOR EXPENDITURE: - \$85,000

PRIOR WORK:

- Aerodat survey complete
- very limited ground follow-up
- no drilling
- 4 main areas of conductive response
- gossan zone found on strike from Victoria R. Mine but no base metal values

COMMENT:

- reconn. geochem. sampling is very broad. Definition of anomalies is dubious, based on Fe/Mg ratios, Na₂O not depleted

ROSS R. PROJECT

(only briefly reviewed)

LOCATION:

- 333 claims in 3 separate areas
- western and central portions of the Selwyn Basin
- approx. 200 miles NE of Whitehorse, Yukon T.

CONCEPT:

- acquired on the basis of coincident stream sed. response with interpreted "hinge lines" of the basin

PRIOR EXPENDITURE:

- \$150,000

PRIOR WORK:

- detailed stream sed. sampling to follow-up regional work

COMMENT:

- considerable more effort required to define drilling targets
- not located in area of known mineralization

LEECH R. PROJECT

LOCATION:

- 124 contiguous claims
- south-central Vancouver Island
- 30 miles NW of Victoria, B.C. (92-B-12)

CONCEPT:

- acquired on basis of reconnaissance lithochem. survey in area of Leech River volcanics; possibly correlative with Sicker volcanics at Westmin

PRIOR EXPENDITURE:

- \$65,000

PRIOR WORK:

- stream sediment geochem.; no anomalies
- geological mapping at 1:10,000
- Dighem airborne survey at 200 m spacing
- several regional conductors in sediments plus a few short strike-length conductors in basic volcanics
- no detail work or drilling conducted

COMMENT:

- geochem. response is dubious. Does not correlate with any Na_2O depletion
- only showing observed is a barren gossan in basic volcanics
- single float boulder found @ 0.22 oz/T Au but no base metals

BURCHELL LAKE PROJECT

LOCATION:

- 34 claims held under JV agreement with Belore Mines Ltd. (50%)
- south shore of Burchell Lake at west end of Shebandowan Belt
- 65 mi. NW of Thunder Bay, Ont. (52-B-10)

CONCEPT:

- initiated by J. Boldy who had explored previously with Freeport
- largely untested EM conductor overlies known possible alteration/sulphide pipe

PRIOR EXPENDITURES:

- \$409,000

PRIOR WORK:

- conductor defined on ground with Maxmin (2000' strike length)
- drill program (11 holes, 6253')
- deep overburden, only 7 holes complete
- 4 holes on conductor, 3 holes on possible alteration pipe
- 2 holes on conductor intersected epid-garn-mag-sphalerite horizon (?) with up to 2.28% Zn over 9.0' (cf. Coniagas)

COMMENT:

- conductor drilling may have been down-dip
- strataform nature of zinc horizon does not appear to be recognized by Gulf
- further work would be merited although potential somewhat limited by previous drilling