

92c 012 Red Dog 07

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PROPERTY FILE

REPORT ON ✓
 RED DOG. MINERAL CLAIM
 for
 ALBERTA MINES LTD. (N. B. Co.)
 G. W. Apps P. Eng. Sept/71

92c 012 - 07

PROPERTY FILE

GEORGE E. APPS, B.A.Sc., P.Eng.

MINING ENGINEER

1014 SLUGGETT ROAD

BRENTWOOD BAY, B.C.

TELEPHONE 682-1317

September 15, 1971.

Albeta Mines Limited,
1014 Sluggett Road,
Brentwood Bay, B. C.

Dear Sirs:

Herewith a report on the work carried out on the Red Dog
M. C., Lens Creek Area during the spring of this year. The
details of the valuation of the work are as follows:

To: Self Potential Geophysical Survey, Geological Mapping
and Report:

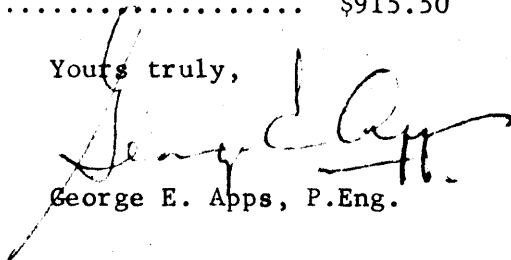
Professional Engineer 5½ dy @ \$100	= \$550.00	
Survey Assistants 4 dy @ \$25	= \$100.00	
Self Potential Equipment 5 dy @ \$5	= \$ 25.00	
Truck Mileage 640 @ 14¢	= <u>\$ 89.60</u>	
		\$764.60

To: Trenching

Labour 4½ dy @ \$25	= \$112.50	
Explosives	= \$ 15.00	
Truck Mileage 160 mi @ 14¢	= <u>\$ 22.40</u>	
		\$149.90

Total \$915.50

Yours truly,


George E. Apps, P.Eng.

GEA/rf

REPORT
on
Red Dog M.C.
of
ALBETA MINES LTD. (N.P.L.)

by
G.E.Apps, P.Eng.
Sept. 15, 1971

RED DOG M.C. - ALBETA MINES LTD.

SUMMARY

A self potential geophysical survey over an area of known geochemical highs has shown two anomalies. Test pits on the larger one (600 ft. by 75 to 100 ft.) show chalcopyrite-pyrite mineralization in skarn. Mapping indicates that the skarn underlies and is conformable with a limestone member, terminates on the north end against an intrusive, and on the south end against a fault. The smaller anomaly (150ft. by 200 ft.) probably represents the near-surface expression of a downfaulted section (extension) of the mineralized skarn zone as well as the mineralization along the shears.

CONCLUSION

Follow-up work is required to confirm the interpretation, establish the copper content of the zone, and define dimensions.

RECOMMENDATIONS

1. Trenching of upper anomaly with backhoe, assisted by minor drilling and blasting, at 50 - 75 ft. intervals. Test pits on lower anomaly.
2. Sampling and mapping of cuts and exposures.
3. Further prospecting-mapping in the immediate area.
4. Additional work, i.e. drilling, dependant on results of trenching.

COSTS

Cost of a satisfactory initial phase (1 - 3) would be in the order of \$10,000. A useful amount of work might be done for \$6,000 to \$7,000, given adequate direction and supervision and availability of equipment.

A second phase of work should also incorporate further exploration by geophysical and physical means on several of the other showings held by Albeta in the area. (Reference : Report on the Robertson River Claims of Albeta Mines Ltd, R.H. Seraphim PhD, P.Eng - June 2, 1969.)

OBSERVATIONS

Geochemical high samples were found south of Albetas' Lens Creek showings during reconnaissance by Silver Standard Mines in 1969. In 1970 some followup geochemical sampling showed an anomaly some 500 ft long and open on at least one end. Silver Standards' exploration agreement with Albeta terminated, and in the spring of 1971 a limited program of self potential geophysical surveying, geological mapping, and trenching was carried out for Albeta Mines Ltd..

This work has shown geophysical and physical evidence of a mineralized skarn zone on the lower contact of a limestone member. Surface trace of the zone is about 600 feet. Thickness is unknown, but something in the order of up to 50 ft. appears possible. Two cuts and a test pit were dug on the geophysical anomaly over a length of about 250 ft. The cuts showed chalcopyrite and pyrite in skarn and the pit showed heavy pyrite mineralization. None were exposed adequately for representative sampling, but copper content of material in cuts suggested from .5% to 1.5% Copper. The zone probably has a low dip.

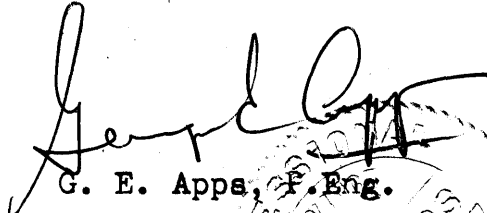
Another geophysical anomaly about 150 ft by 200 ft occurs over the road where original geochemical highs were found. Several east-west shears disrupt a section of limestone which is probably a downfaulted segment of the limestone overlying the main skarn zone. Skarn and mineralization probably follows the shears, as well as the lower contact of the limestone. No new exposures have been made in this area. The poor exposures and nearby float indicate pyrite and chalcopyrite mineralization in skarn and along the shears. No reliable estimate of copper content can be made, and float indicates that it may be quite variable. C.F.Kowalls' report of April 22, 1970 (Silver Standard) suggested (a very limited tonnage of) 1% to 3% Copper ore. The possibility of a mineralized skarn zone underlying the limestone member was not recognized at that time.

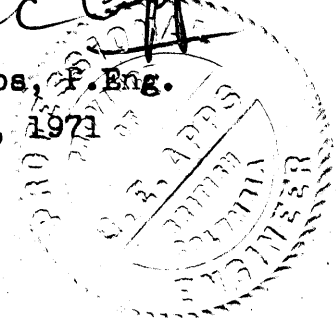
WORK

The geological interpretation presented was made on the basis of a minimum of exposures. However, the evidence and possibility of a mineral deposit of moderate tonnage and grade is strong enough to justify significant additional work. The trace of the main zone is on a hillside which makes open-cut work relatively easy. A backhoe - front end loader on tracks is recommended. Extensive bulldozing is not desirable (or perhaps permissible) in the newly re-forested area. The zone under the road does not lend itself to easy exposure without damaging the road, but some useful work might be done on the east of (below) the road. With any encouragement a few short diamond drill holes would easily expand the known information.

PROPERTY

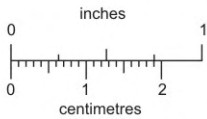
Albeta Mines Ltd has a standard Mining Agreement with Canadian Pacific Oil and Gas Ltd. covering approximately 455 acres upon which the Red Dog M.C. is located. The area has been logged in recent years and re-planted about a year ago. The showings are at about 2500 ft elevation on and adjacent to access roads which have been maintained in reasonably good condition.


G. E. Appa, P. Eng.
Sept 15, 1971

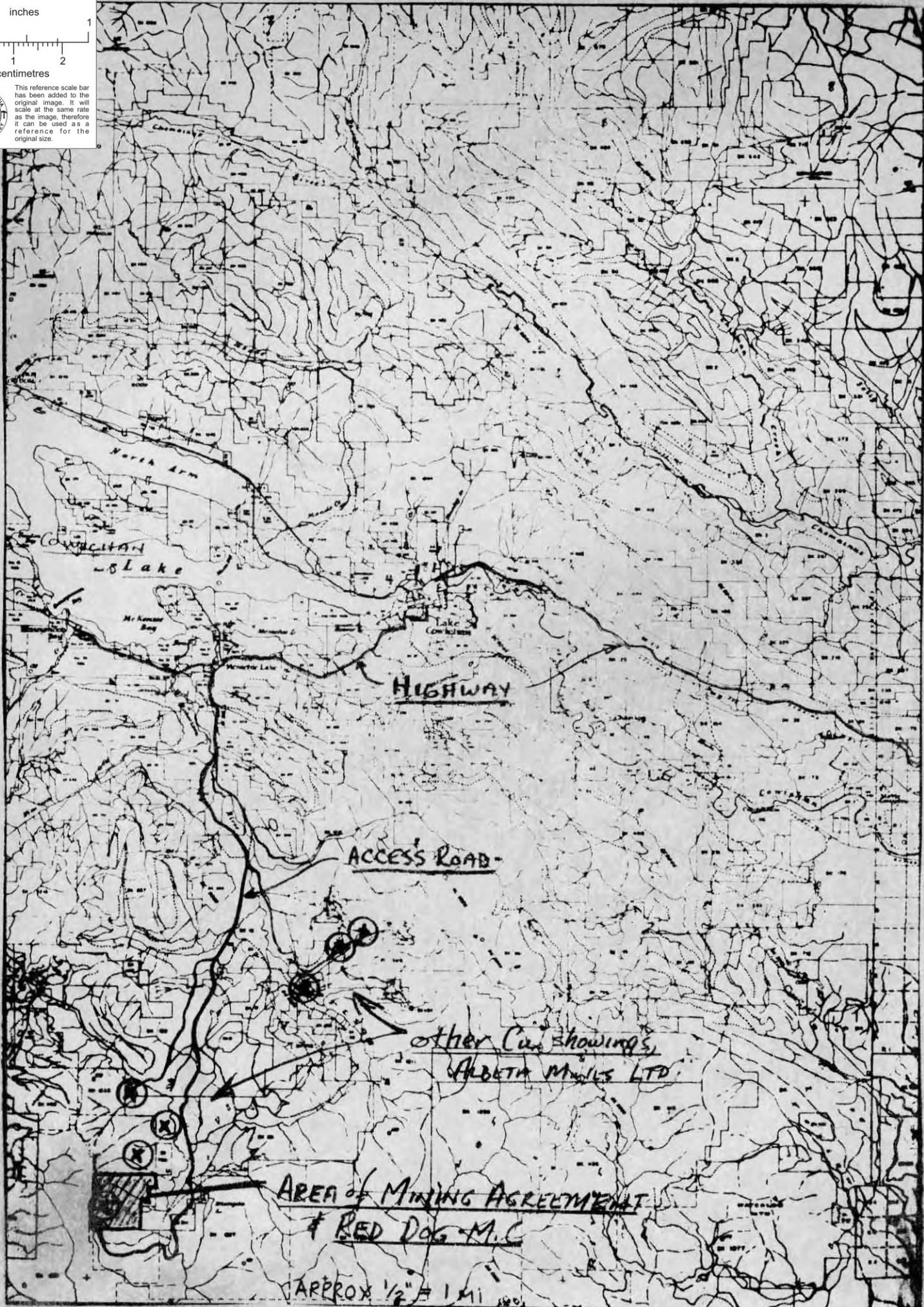


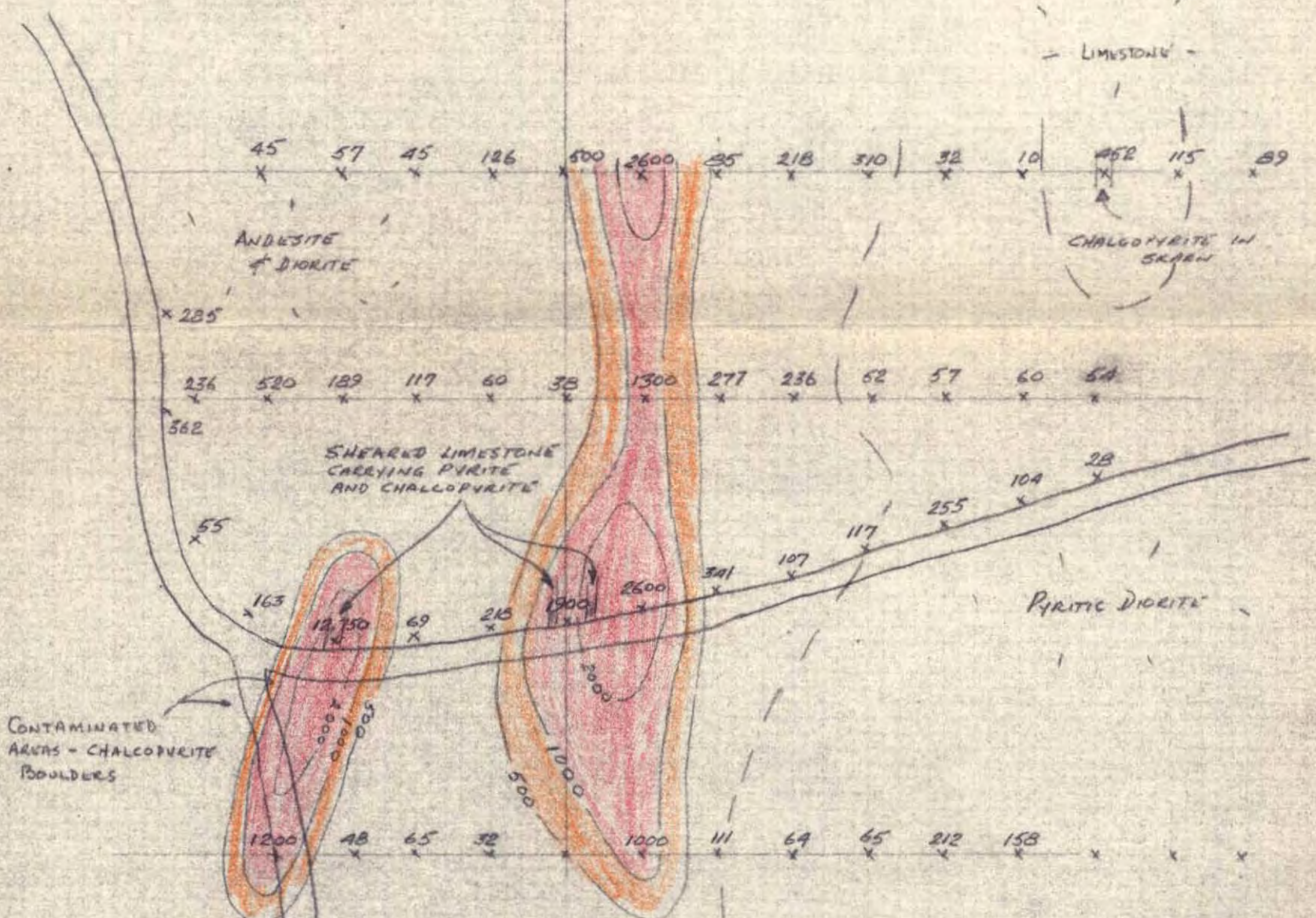
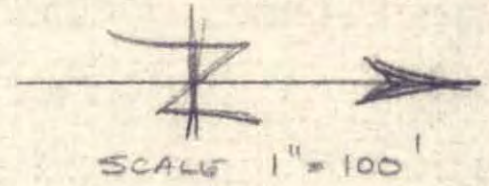
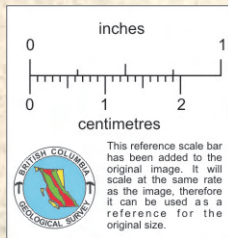
PLANS ATTACHED

1. Location Plan, Lake Cowichan area
2. Geochemical Plan, (Silver Standard)
3. Self Potential Survey, G.E.Apps
4. Geological Mapping, G.E.Apps
5. Geological Interpretation, G.E.Apps.



This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



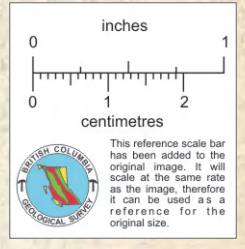
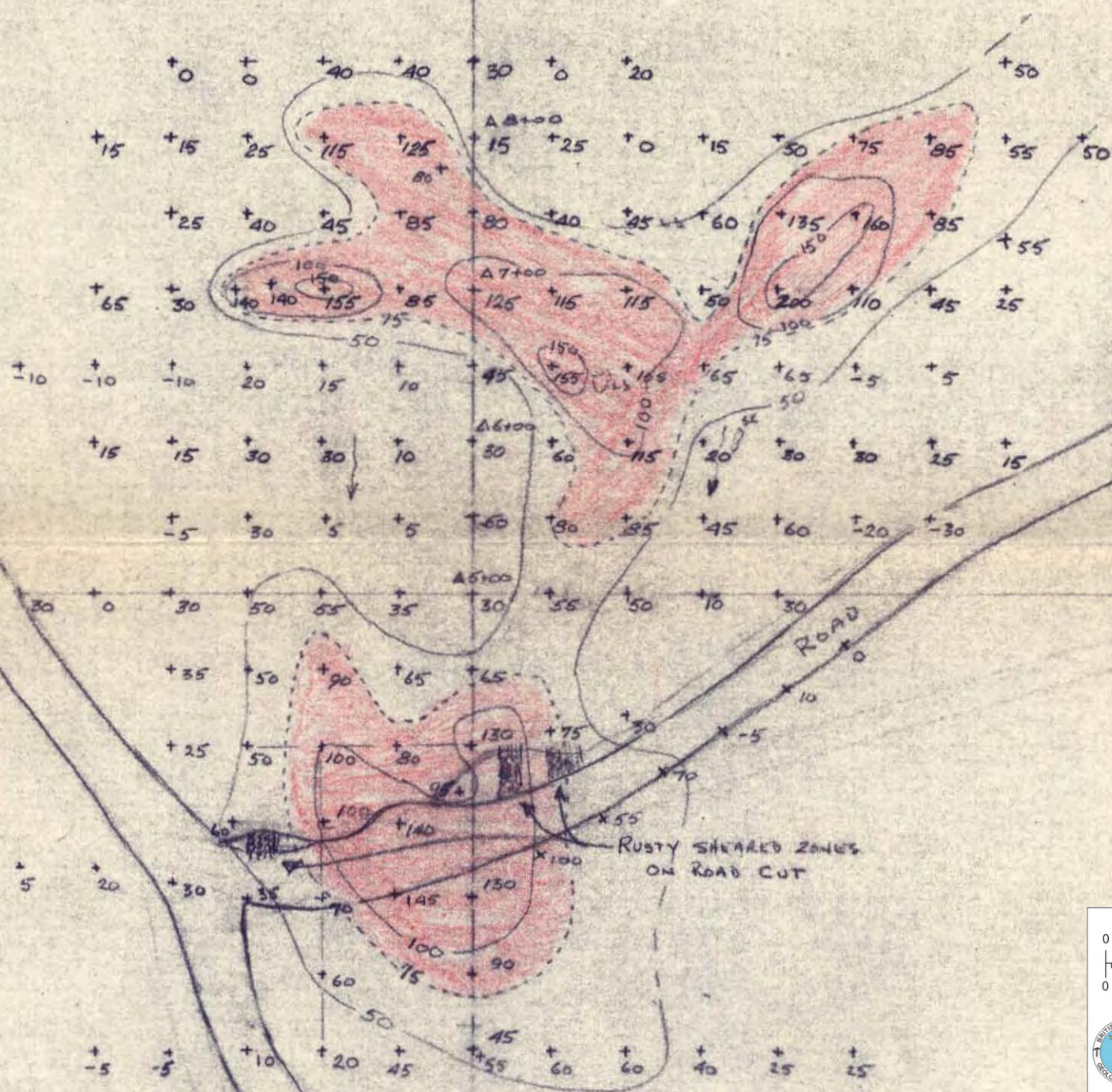
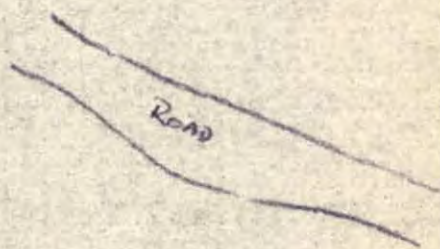


COPPER GEOCHEM RESULTS ppm.

- COPY OF
 "SKETCH OF GEOLOGY AND GEOCHEM
 SAMPLES OVER NEW SHOWINGS NEAR
 LENS CREEK - ALBETA - VANCOUVER ISLAND"
 BY CHARLES KOWALL, SILVER STANDARD MINES.
 APRIL 19, 1970

COPY BY G.E. APPS PLEWS, AUG 12, 1971

EN.
 152

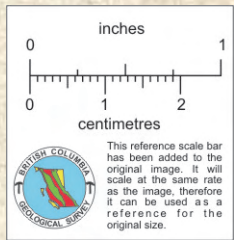
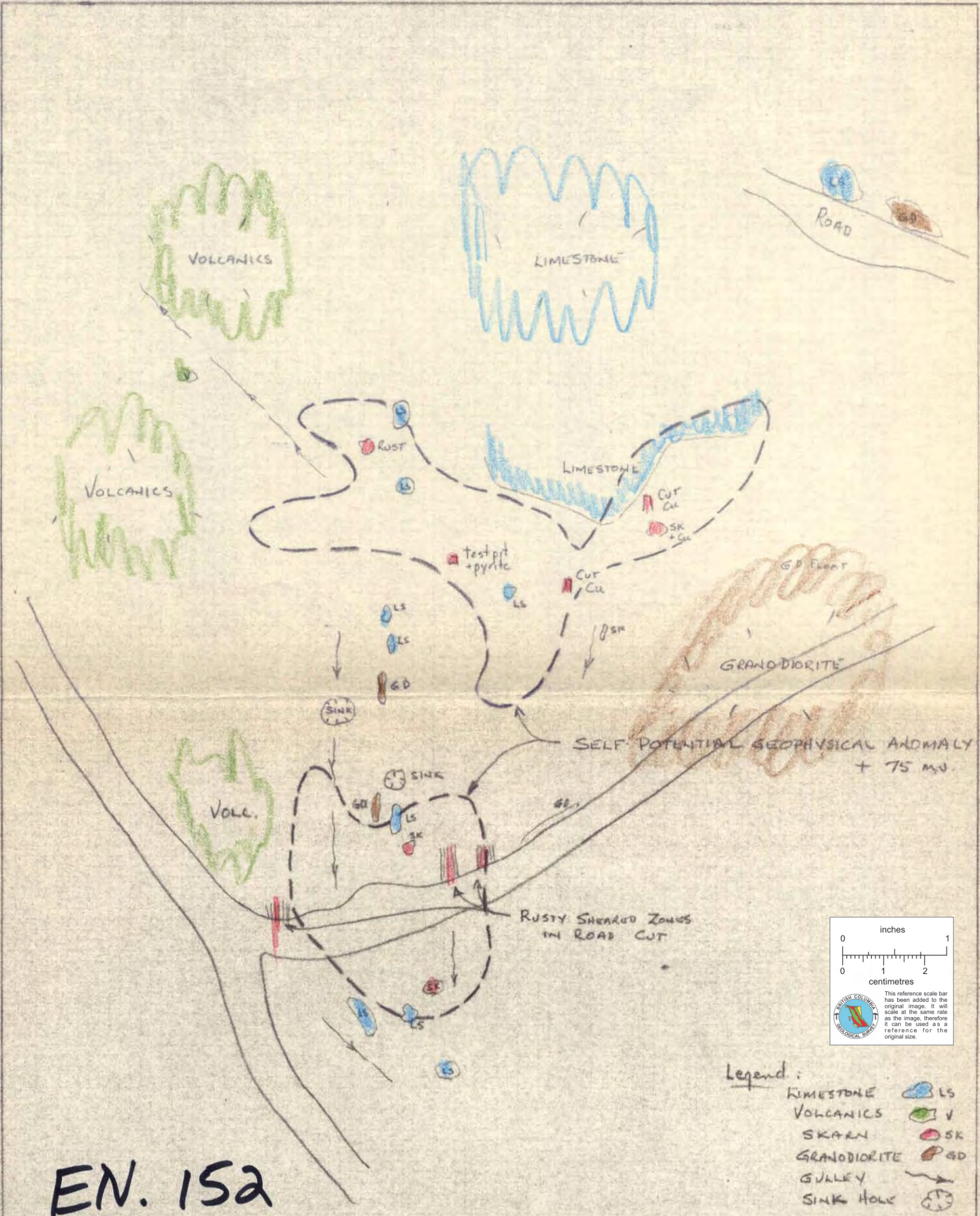


EN. 152

readings shown
in millivolts.

SELF-POTENTIAL GEOPHYSICAL SURVEY
ON RED DOG I M.C.,
FOR ALBETH MINES LTD (N.P.L.)
BY G.E. APPS, P.ENG.
SCALE: 1" = 100' AUG 12, 1971

G.E.A.



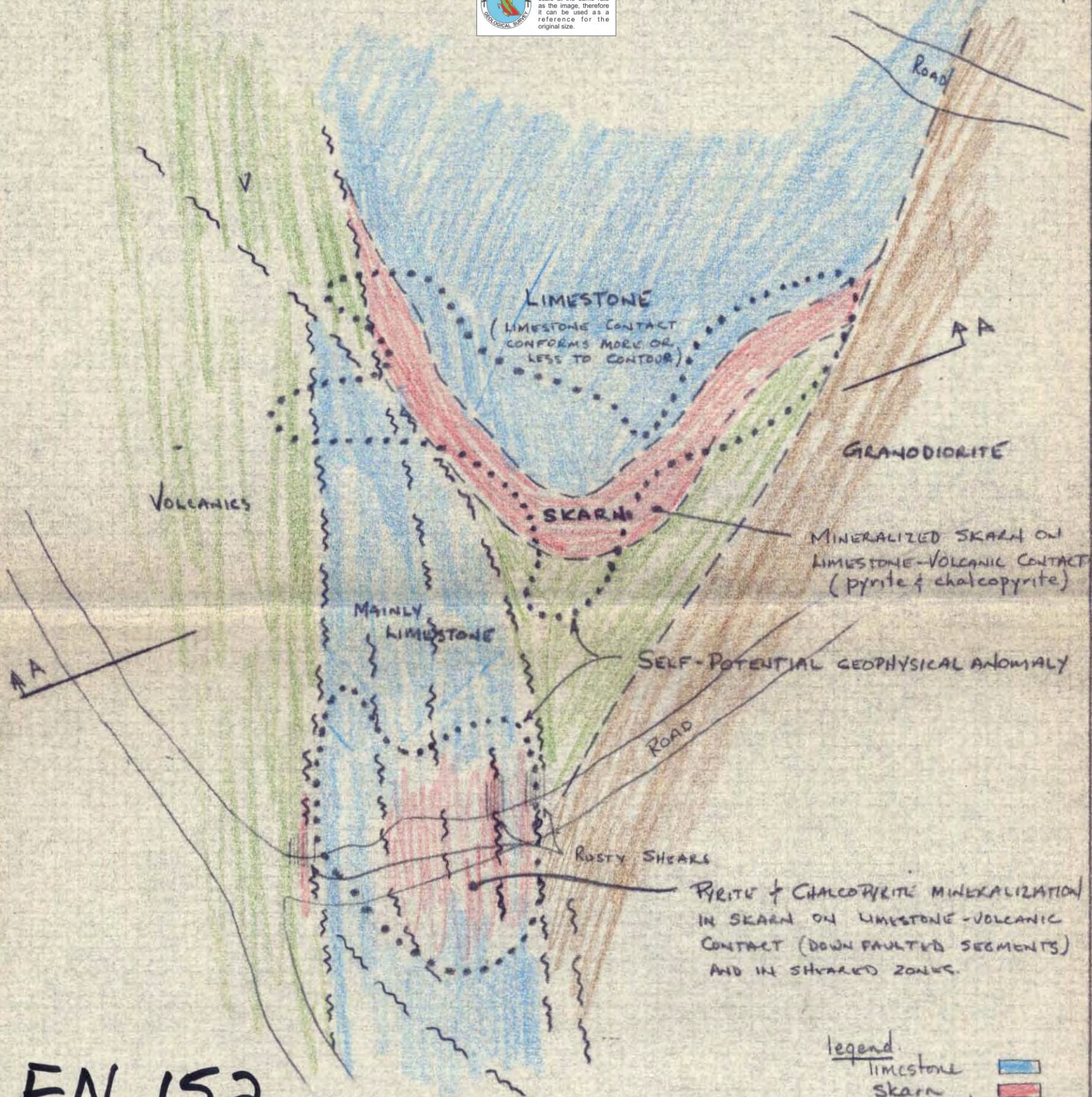
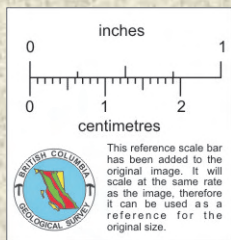
- Legend:
- LIMESTONE ■ LS
 - VOLCANICS ■ V
 - SKARN ■ SK
 - GRANODIORITE ■ GD
 - GULLEY ~ G
 - SINK HOLE X

EN. 15a

PRELIMINARY GEOLOGICAL MAPPING
 ON RED DOG 1 M.C.
 for ALBETA MINES LTD (N.P.L.)
 by G.E. APPS, P.ENG
 SCALE 1" = 100'

AUG 16, 1971
 GEA.





EN. 152

Legend

limestone	
skarn	
granodiorite	
volcanics	
CONTACTS	
FAULTS	



SKETCH SECTION A-A (REDUCED)

SKETCH of a POSSIBLE GEOLOGICAL INTERPRETATION FROM LIMITED MAPPING of RED DOG 1 M.C.

ALBETA MINES LTD (N.P.L.)
 SCALE 1" = 100'
 AUG 16, 1971
 G.E. Apps P.ENG.