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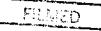
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GEOLOGICAL BRANCH ASSESSMENT REPORT

17,756

DEPARTMENT OF MINES AND PETROLEUM RESOURCES



MINERAL ACT

FORM I

GOLD COMMISSIONER DECEIVE JUL 15 1983

NOTICE TO GROUP

N. R. # 1000068 \$10 **
OSOYOOS MINING DIVISION

Usoyoos Mining Division. Name of group ///orth We, the undersigned owners* of the following adjoining mineral claims, desire to group them according to the provisions of the Mineral Act:-Free Miner's Certicate No. Record No. or Lot No. SIGNATURE OF OWNER® NAME OF CLAIM 2692 ensen

INTRODUCTION TO THE MARBLE CLAIMS

The old road from Summerland to Peachland, a mile West of Okanagan Lake, runs through the Marble Claims. It was blazed by the Fur Brigade in 1824 and used later for cattle drives to the Cariboo and for hauling mining supplies north. A Hewitt Mining Company was the first to operate in the area in 1887. This Company was taken over by the Canadian-American Gold Mining Company.

There are no records of who dug the old pits on the Marble Claims, but a 1854 camp stove was recovered in the bush near two of the pits and it will be turned over to the Peachland Museum when restored.

The land has been surveyed and lot lines are still evident but it is now mostly Crown Land and used for range land by an Oliver rancher. The area is arid and there are year-round dry spots where yearly available moisture does not penetrate, particularly on Garnet Plateau.

The cattle are removed from the area in mid-June and the present drought, with only 1/3 the normal snowfall last winter, cuts short self-potential prospecting in this area.

H.E. Jewen

TO AROM IT MAY CONCERN

THIS IS TO CRETIFY THAT ... ERIK JENSEN.

OF .SUMMERLAND... COMPL THE A

BASIC PROSPECTING COULE GIVEN BY HE

IN PENTICTON. B C DURING JAN. PEB. AND

MARCH 1987.

Peter Peto. Ph D.



GEOLOGICAL REPORT WAS DONE BY

Geologist Peter Peto and Geologist Charles Forster

MT. ENEAS SKARN PROSPECT

CLAIMS: MARBLE 1 to 14, contiguous 2-post claims, record nos: 2697

CLAIMS: MARBLE 1 to 14, contiguous 2-post claims, record nos: 2697

CLAIMS: MARBLE 1 to 14, contiguous 2-post claims, record nos: 2697

CLAIMS: MARBLE 1 to 14, contiguous 2-post claims, record nos: 2697

LOCATION: N.T.S. 82E/12W, 49° 42'N & 119° 47' W, UTM Zone 11: 55085N & 29900E, ELEVATION: 2100-3500' 9 km south of Peachland.

ACCESS: From Summerland via the Garnet Valley road a distance of 13 km.

OWNER: Erik Jensen, R.R. #2; Gartrell Road, Summerland, B.C. (604) 494-1557

REGIONAL GEOLOGY: The claims cover a roof pendant of Upper Triassic Nicola volcanic sediments enveloped by middle Jurassic intrusions of the "Okanagan" batholith and the "Greata" syenitic plug of Tertiary age. (G.S.C. map 15-1961). The pendant is similar to that situated along Greata Creek hosting the "Iron Horse" skarn deposit (Minfile 82E/25NW) which are currently explored by Fairfield Minerals Corporation and Placer/Dome joint venture (Oka claims). The Marble claims are situated 14 km to the southeast of the Oka claims which cover Hedleytype gold skarn mineralization.

PROPERTY GEOLOGY: The claims cover an elongate, east trending, erosional remnant of medium grade, contact metamorphic rocks consisting of biotite schists, amphibolites, marble and limy argillites, similar to the Hedley Formation, which have locally been altered to siliceous garnetiferous skarn. The pendant is bound by a hornblende diorite to the south on Mount Eneas, syenite porphyry to the north, biotite leucogranodiorite and quartz diorite to the west. The pendant is cut by major north, northeast and east trending faults and cut by numerous syenite, diorite, pegmatite and granodiorite dykes and quartz veins. The main skarn zones occur on the east side of Garnet Lake and along the north ridge of Mount Eneas. Several old prospect pits were observed.

EXPLORATION STRATEGY: The claims host a geological environment similar to those found at Mascot Gold and the Iron Horse and offer the petential for significant gold bearing skarn development. A program of rock and soil geochemical sampling in conjunction with geological and VLF-EM magnetic surveying is recommended.

Peter Peto

Peter Peto, Ph.D., F.G.A.C. Geologist

GARNET LAKE SKARN PROSPECT

Marble Claims: Sixteen contiguous 2-post claims; Osoyoos MD.

Location: NTS 82E/12W; 49° 42'N & 119° 47'W. In Garnet Valley, 9 km South of Peachland.

Owner: Eric Jensen, RR 1, Gartrell Road, Summerland, B.C.

Phone: (604) 494-1357.

Description:

The writer and Colin Adamson, accompanied by Mr. Jensen, orchard farmer and part-time prospector, examined the claim block July 12, 1988 looking at each "showing and anomaly" considered important by Mr. Jensen.

The claims are underlain by a pendant of schists, amphibolites and marbles, bounded by Tertiary to Cretaceous syenites, diorites, granodiorites and quartz diorites.

The claims were thought to represent a geological environment similar to the OKA prospect, 14 km to the north, where Placer Dome and Farfield Minerals are currently exploring a gold skarn showing.

Peto, 1988, in a short report for Mr. Jensen, stated that several skarn zones existed including old prospect pits that had not been sampled. Jensen has since surveyed most of the skarn areas with SP (his own unit) locating six anomalies, however no sampling, rock or soil, has been done.

Base and precious metal mineralization on the property is limited to chalcopyrite and molybdenite in quartz veins. Several small pieces of massive galena and sphalerite float have been located alongside the gravel roads on the claim block. Source for the float is speculative at best.

EVALUATION:

The skarn zones are metamorphic skarns, weakly developed in the marble bands. Calc-silicate mineralogy is garnet, diopside and calc-silicate hornfels. No evidence of metasomatism nor significant sulphide mineralization was noted. The prospect pits were dug on quartz veins, up to 2' in thickness, that carry sporadic chalcopyrite and molybdenite. The SP anomalies, mostly small, circular features, coincident to the marble units (only place that SP was run) have no significant sulphides other than disseminated pyrite to 10% in hornfels.

The writer took six rock samples as described on the attached assay tickets. Colin Adamson, field assistant, at the writers direction, ran soil sample lines over five of the anomalies and the sample locations are plotted on the attached sketches.

Anomalies 1 & 8: are located in the valley bottom with little outcrop. Minor silicified, garnetiferous marble, proximal to a syenitic contact, is noted in the area of the SP anomalies which are circular and 40 metres X 80 metres in size. Three soil lines were run across anomaly 1 and a cross of soil lines, centred on the anomaly, run across # 8. 4

Anomaly 2: overlooks Garnet Lake and is above a small road. Thickest and most persistent marble band, weakly skarned (metamorphosed), the SP anomaly is once again a small, circular feature. Unfortunately Jensen has not prospected the strike extent of the marble choosing to survey a small portion of it with SP. One line of soil samples were taken across the marble band and the SP anomaly, however the writer recommended to Jensen that he soil sample the base of slope and prospect the extent of the marble.

Anomaly & & A: situated on the ridge crest north of Mt. Eneas, the SP anomalies are linear features, up to 20 metres in width with strike extents of 200 metres and open ended. Coincident to siliceous, garnet, diopside marble and calc-silicate hornfels, two small pods of pyritic hornfels were noted and sampled, #'s 19006 and 19007. Country rocks are amphibolites and schists with several leuco-granitic pegmatites.

Two old prospect pits on quartz veins with molybdenite, are peripheral to the SP anomalies. Sample # 19003.

Two soil sample lines were run across the SP anomalies as shown on the respective location sketches.

Other Samples:

Sample # 19001 was chipped across one metre of a skarny volcanic unit with minor pyrite exposed in a small cut alongside the Trans Mountain gas pipeline.

Sample # 19002 is taken from a small dump / prospect pit on the road up to the Anomaly & local. Rocks are silicified hornfels with traces of pyrite. An SP anomaly is also reported up hill of the pit but was not soil sampled. — Anomaly #

CONCLUSSIONS:

Although the writer has not received the sample results, there was no evidence of significant mineralization and/or

metasomatic skarn development. The skarns and calc silicate hornfels present on the property are typical of metamorphic units developed within the regional metamorphism of the area. The SP anomalies are most likely related to pyritic hornfels.

Unless the sample results show significant precious and / or base metal results, providing a possible source for the mineralized pieces of float, no further interest in the property is warranted.

Sincerely,

C.N. Forster

Attachments:

- Peto's report, claim sketch and location map
- · six soil sample sketches
- · Jensen's SP and geological sketches
- Assay tickets, 19001-007 (004 omitted)

GEOCHEMICAL REFORT

What led to the staking of the Marble Claims was the finding of ore float, geology and reconnaissance runs with S-P. As more evidence turned up, more units were staked.

Ore floats were found only in three places, pyrite near Anomaly 3 with Au in ppm, sulphide ore to the west of Mt. Eneas Plateau below Anomaly 6 and near the gas pipeline with good values of Ag- Zn - Cu and all the pathfinder elements for Au but very little Au, galena float on the east side of Mt. Eneas again below Anomaly 6 near highway 97, again good values of Ag - Zn - Cu but no gold.

A soil assay was done near the spring on Garnet Plateau and showed 4ppm Ag and 110ppm Se. Iron is 5%. Soil is so toxic that when used for potting soil, it kills houseplants in a few hours. It may be possible to track this mineralization back to its source by using a combination D.C. and resitivity but generally this area is not suitable for S-P surveys or geochemistry because of clays and past land clearing and farming. A magnetometer would be the best instrument for surveying on the Garnet Plateau.

After the writing of the above, a report and assays were received from Charles Forster. The assay sheets have been checked and sample locations identified. A copy is included of assays. The assays confirm that, where landclearing and farming have taken place, geochemistry is a poor tool but in virgin territory, such as Anomaly 5 and 6 it is right on and highest mineralization is at the S-P peaks. Geochemistry also picked up higher zinc and lead at #410E that is east of S-P measured and at #4100W indicating the need for a S-P grid not more than 50 meters apart. The difference between 5 and 6 appears to be the depth of anomaly and overburden. Charles got mixed on the numbering of anomalies but his sketches confirmed their locations and corrections have been made.

I have written in my own assay results at the bottom of sheet so as to get a better view of results that float could be from that area, however, gold assays are disappointing and there can be little of interest in other assays taken by other geologists who sampled Anomalies 1 and 2 and old pits.



SPECIALISTS IN MINERAL ENVIRONMENTS CHEMISTS - ASSAYERS - ANALYSIS - GEOCHEMISTS

VANCOUVER OFFICE:
706 WEST 15TH STREET
NORTH VANCOUVER B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601087 • FAX (604) 980-9621

TIMMINS OFFICE: 33 EAST IROQUOIS ROAD P.O. BOX 867 TIMMINS, ONTARIO CANADA P4N 7G7 TELEPHONE: (705) 264-9996

Analytical Report

Company:FREEPORT MCMORAN
Project:
Attention:C.FORSTER/R.BEAVON

File:8-1040 Date:AUG 4/80 Type:SGIL GEOCHEM

| Date Samples Received Samples Submitted by | |
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| L. PREEPO | IT MCMORAN, VANCOUVER, B.C. |
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| | dauwww.X discarded: |
| Methods of analysis: | |
| 6 ELEMENT TRACE | F ICP. |
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| | MO CU PB ZN AG - MUUTT ACID.A.A. |
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SPECIALISTS IN MINERAL ENVIRONMENTS CHEMISTS - ASSAYERS - ANALYSIS - GEOCHEMISTS

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TIMMINS OFFICE: 33 EAST IROQUOIS ROAD P.O. BOX 867 TIMMINS, ONTARIO CANADA P4N 7G7 TELEPHONE: (705) 264-9896

<u>Analytical</u> Report

Company: FREEPORT MCMORAN Project: Attention: C. FORSTER/R. BEAVON

File:8-4040 Date:AUG 4/88 Type:SOIL GEOCHEM

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| ROCK GEOCHEM | WO3 - FUSION-COLORIMETRIC. | |
| ASSAYS - ALL - F | FIRE ASSAY. | |
| ASSAYS CULPR 2) | 4 AB, MOSZ -, ACID, DIBESTION-CHEMICAL, AMALYSIS. | ŧ |
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| ROJECT NO: BC PROPERTY | | | 705 WEST | 15TH ST., | | | | |
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| #257+56N0+50W | .9 | 15 | 24 | 10 | 27 | 534 | 5 | |
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| - | 1.4 | 41 | 16 | 13 | 19 | 178 | 5 | |
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| ARROOM | .9 | 9 | 33 | 39 | 39 | 312 | 5 | |
| ARR10E | .8 | 16 | 44 | 15 | 35 | 153 | 10 | |
| | 1.8 | 46 | 26 | 13 | 19 | 107 | 5 | |
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| | 1.3 🖊 | | | 11 / | 20 🔪 | | 5 | |
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JB60S+00W

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F18 7 15 (ROCK)

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1.6

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HE. Jumm

GEOPHYSICAL REPORT

Results of the Marble S-P reconnaissance and grid surveys are shown on worksheets 1-10 drawn on a scale of 1:2000 and also on the smaller scale map of 1:5000 where the readings are averaged and tend to outline the areas of highest mineralization. On Garnet Plateau there are three large anomalies and four smaller ones which may only be deeper anomalies of the same kind. If a survey is run with lines closer than 100 meters apart, more may show up? The anomalies, I presume, may be oreshoots?

The lines are first flagged using pin-flags set 5-10 or 20 meters apart depending on terrain and visibility and readings are taken 10 meters apart except when tracking peaks and when peaks are found of the type found on Garnet Plateau. The size of the anomaly is measured in eight directions, from peak down to -100mv. For each reading a hole is hacked in the ground with a pickshovel to establish good contact and eliminate bio-electrical interferences:

The self-potential survey is donewith a Jen-Fluke Unit, so-called because I built it but the heart of the equipment is a computerized laboratory voltmeter made by the Fluke Instrument Company, Everett. Wa. 98206. It is a model 8062A digital, high sensitivity meter of 1000 megachm impedance up to 2000mv.

The difference between this voltmeter and an ordinary 10 megachm meter is that the Fluke will take readings through 4 feet of bone-dry dirt without loss of ground voltage, whereas a 10 megachm loses 90% on 4 feet and 45% on 2 feet. However, where contact is good, both voltmeters will pick up exactly the same voltage so it is only in arid country that the Fluke is superior.

The 3:1 speedwinder reel with 300 meters of wire is mounted on a packboard, so arranged that all other necessary equipment can be carried with it. All connections for electrodes and voltmeter are auto and can be coupled any way the operator wishes. Electrodes are unbreakable and designed for minimum maintenance of electrolyte and maximum reliability. Electrodes and speedwinder gears are the only things that cannot be bought off the shelf or easily imitated.

The manuals used for interpreting results are S.V. Burr's book on Self-Potential Prospecting and the electro-chemical mechanisms of Sulphide Potentials by Motoski Sato and Harold M. Mooney.

A smaller unit which can be carried in a packsack has 110 meters of light wire and two small electrodes. It is used for reconnaissance only.

Unit was used in 1987 for grid survey and locating drill targets on other claims south of Penticton near Oliver and Apex Mountain. I also displayed it at the Prospector's Tent at the 1988 Cordilleran Round-up.

CONCLUSION

I find that it is only just beginning to become interesting on the Marble Claims and maybe the influx of company geologists came a bit too early.

First it was realized that geochemistry on the Garnet Plateau is not a suitable prospecting tool. Also there is a lack of soil horizons.

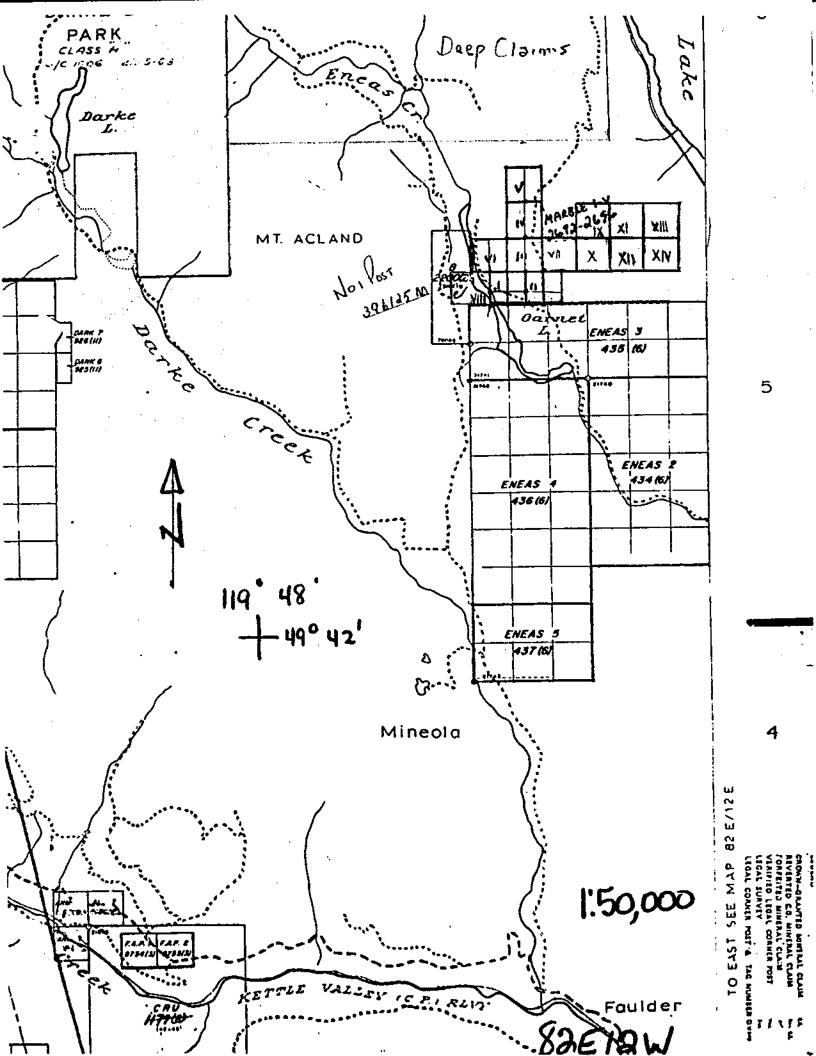
Anomaly 3 on the slope is in the midst of grey marble and talus and it is said to be colored grey because of graphite; thus there could be a darker or black marble further down. It is the vertical contact between the green-white marble and gneiss that must be checked. It is also below here that the pyrite float was found.

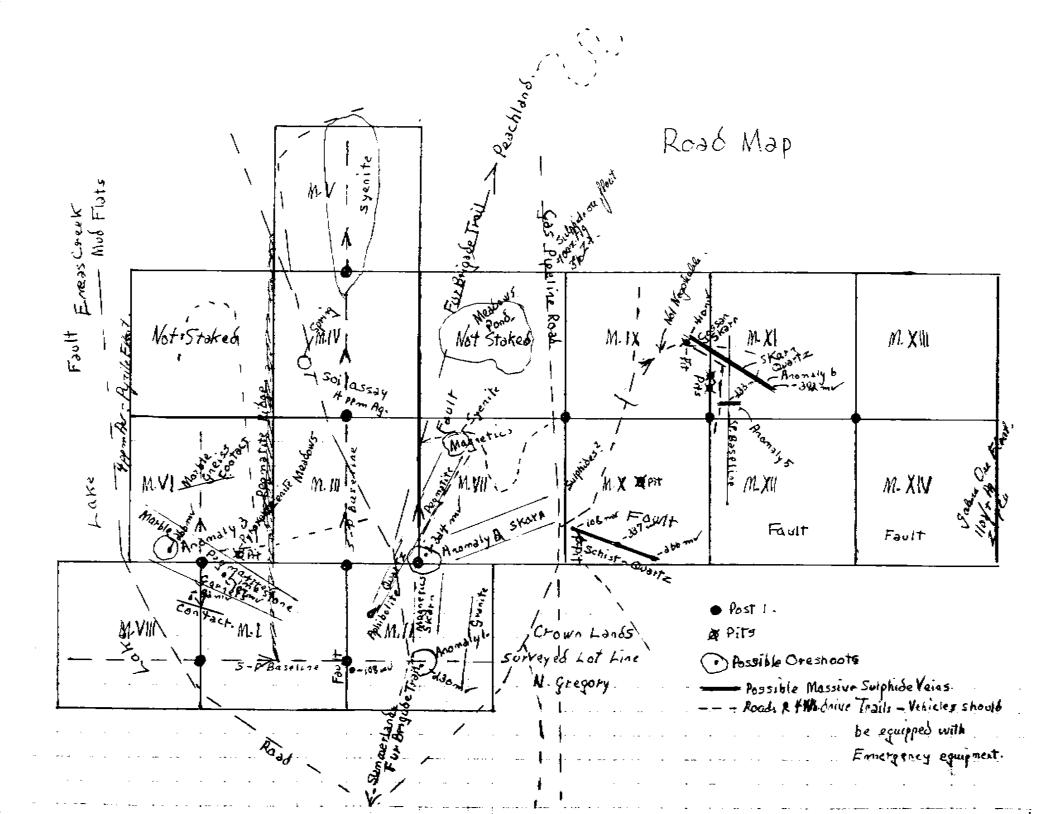
On Eneas no graphite is evident and when S-P readings reach 400mv and more it could mean it is close to the surface. Therefore in 1989 after snowmelt I intend to follow the veins down and run a grid that will cross them.

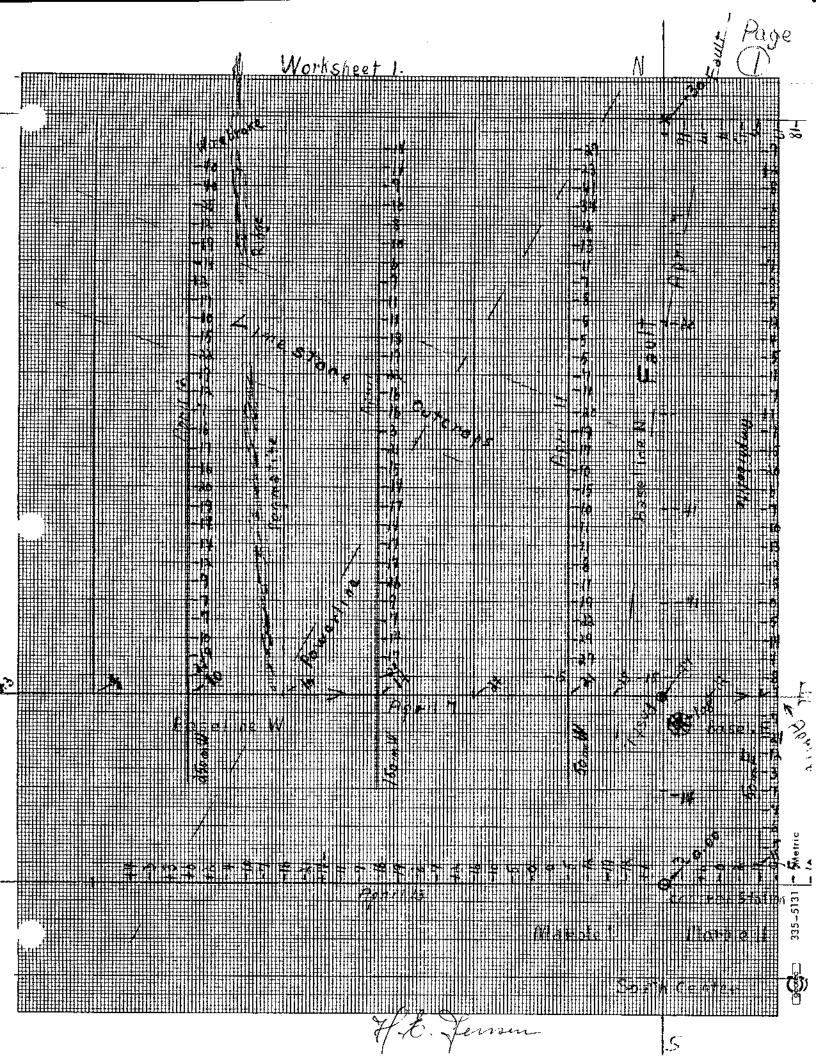
What is encouraging here is that the ore floats found on both sides of the mountain were directly below the anomalies found so that it is a little more certain they are local? Only when the geophysical anomalies are mapped do I think it will be worthwhile to do a geochemical survey.

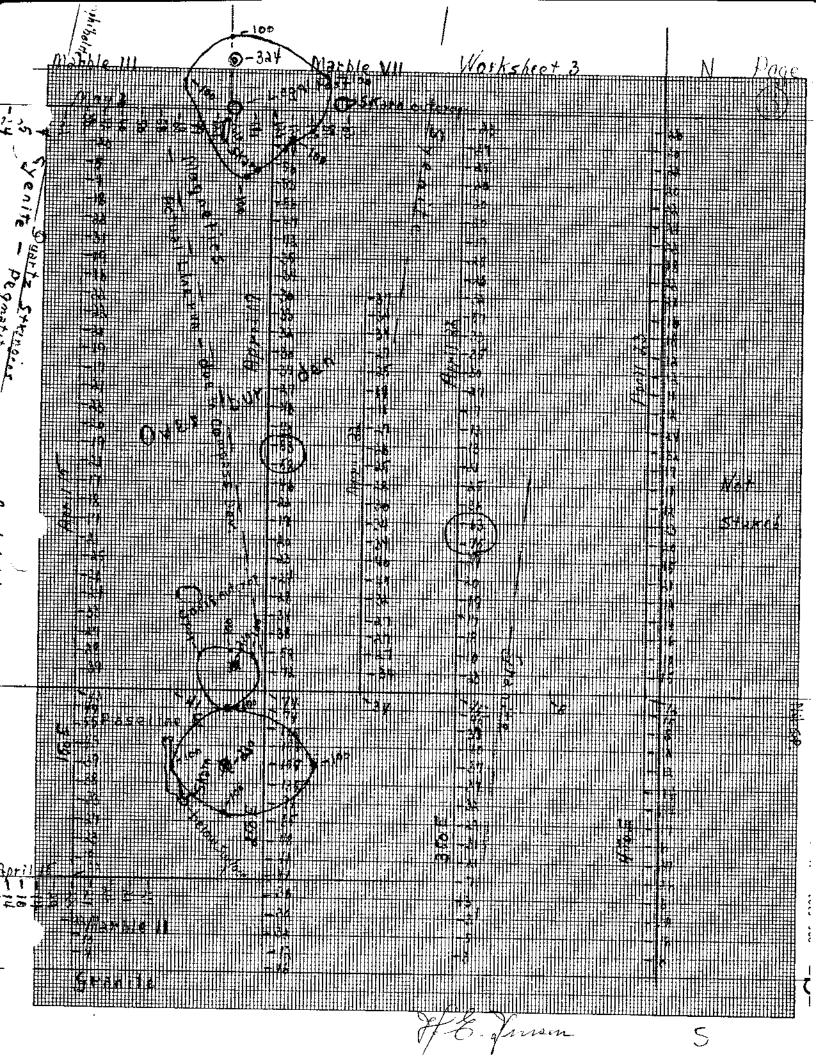
As for anomalies 1 and 2 only drilling can reveal what is there. Anomaly 4 has not been sampled but should prove interesting.

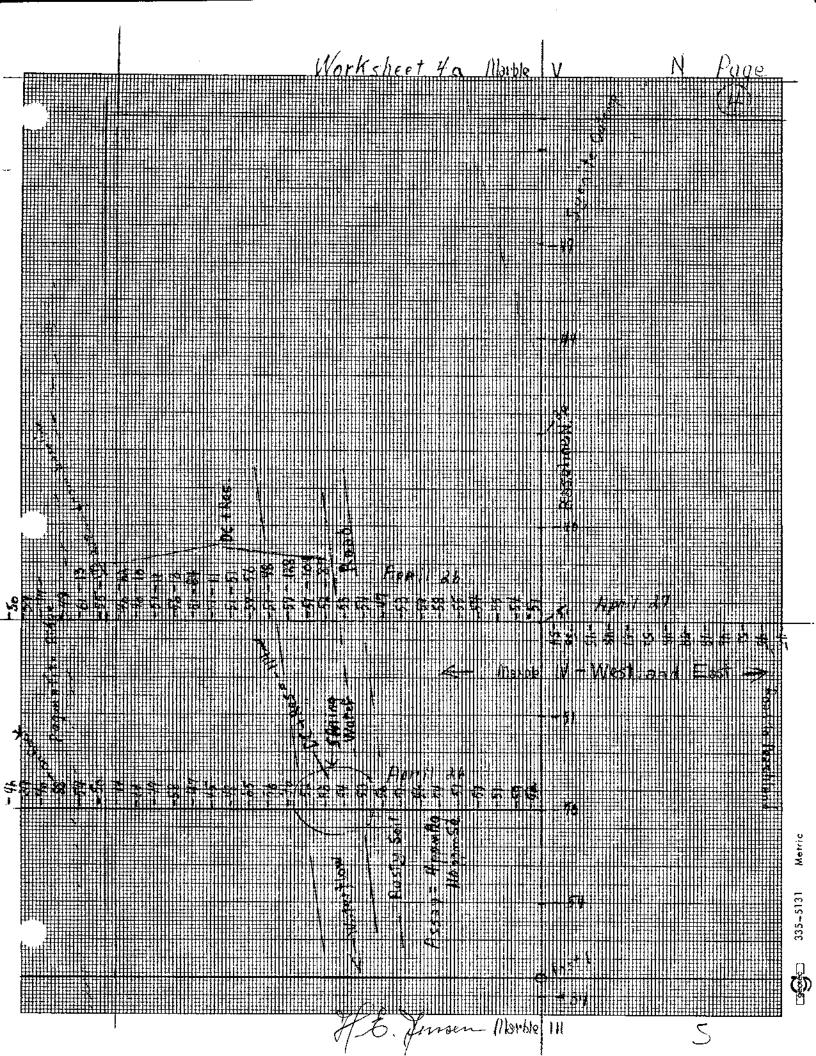
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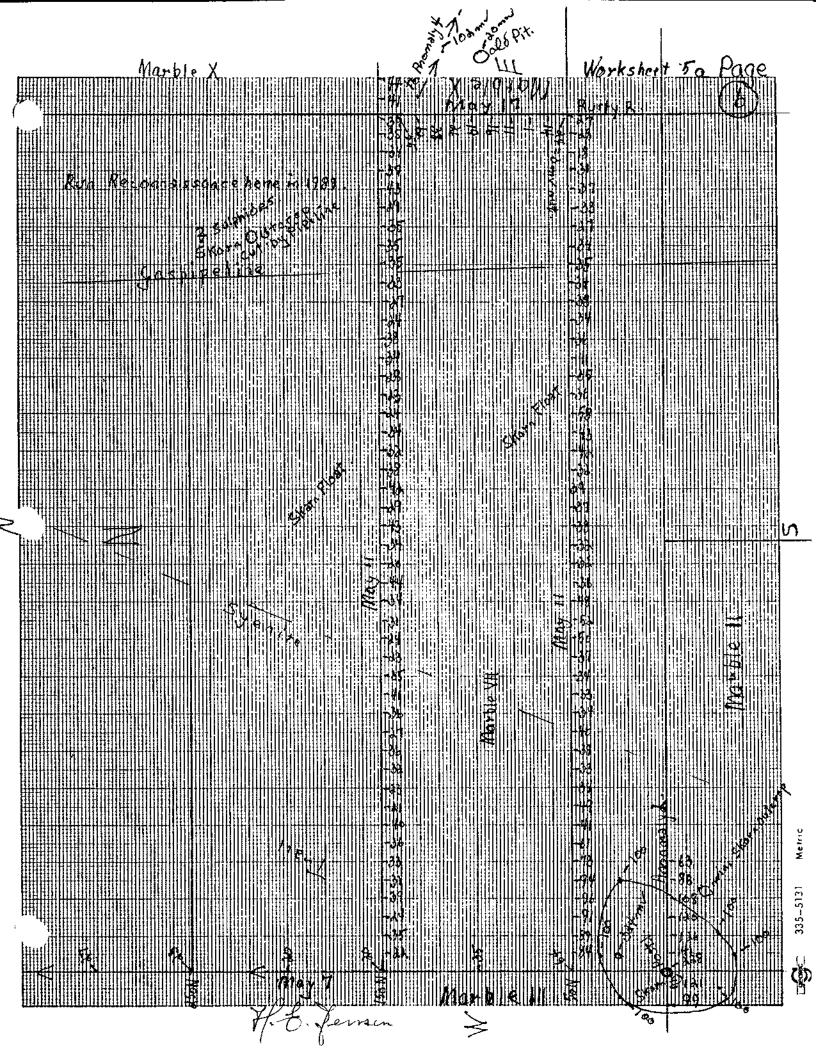


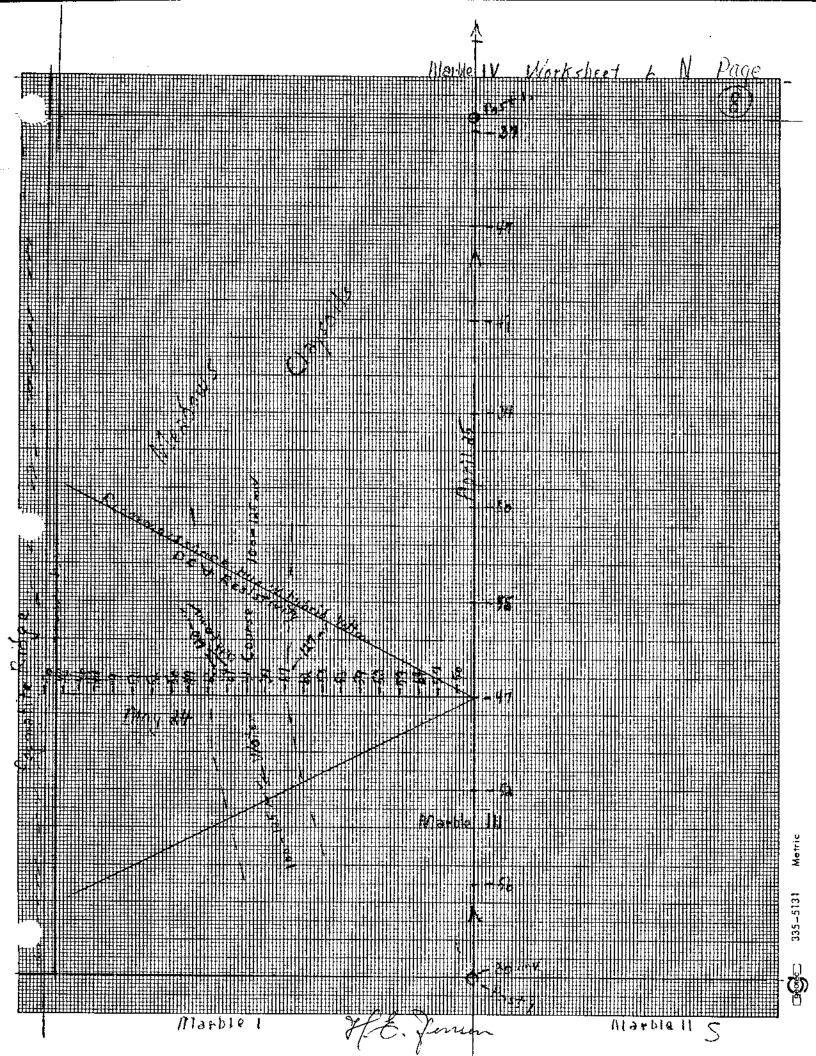












Merric

