

Stratigraphic sequenceIgneous sequenceMetamorphic sequence

Dyke in R. Ch. Falls

Pyrrhotite, chalcocopyrite

Magnetite

(Alaskite?)

Garnet, etc., stann

Leucodiorite

Mafic diorite

Intrusive andesite

Limestone

Dark andesite

Chert & ls. (?)

Bedding in ls. is at one point convincingly shown by 4 layers of abundant rigid volc. frags. within a thickness of 3". In other places it is shown by a regular, 11 array of surfaces marked by recessive weathering, finer grain size, & darker colour. The regular, 11 array is the significant feature. There is much grey-streaking of the greyish white $m-c/g$ ls., presumably along sealed fractures, that is not bedding. This bedding shows that the wide ls. band NE of the S Pit A & B zones overlies the andesite exposed SW of the ls. The outline mapped by Roscoe would thus suggest a synclinal structure for this band, with underlying units repeated to the NE.

The dark andesite underlying the ls. on the SW is intruded by hoses, dykes, sheets, & reticulate fract.-filling of leucodiorite, but only 1 dyke of leucodiorite was seen in the ls., tho it cuts numerous dykes & sills of andesite & their sandies. (Intrusive & layered andesite cannot be distinguished lithologically.) Thus it may be that the ls. etc. is close to the limit of diorite penetration, & that less disturbed rock will occur to the NE. Around S. Pit B zone the amt. of diorite seems to increase to the S, & on the tour with Roscoe there seemed to be all diorite W of Keapew Ch up to the Falls shug. Thus the only hope of working out stratigraphy appears to lie to the NE.

The andesite prob. is not important, but what underlies it may well be. Around S Pit B zone this what is massively intruded by 2 stages of diorite & otherwise much alt. to sharn, but there are remnants of chert or silicified ls. It seems that this chert was the prepared horizon for chertification & mag.

May 23/74

The little bit of mapping watched for the average summit shown on ls. NE of the ls., but also a seam of mafic diorite. There is a little leucodiorite in the andesite, but not enough to much disturb it. However the andesite is soft & mucky w/ the mafic diorite. Beyond the andesite there is no place where the chert could be expected to be. There is a 100' error in road map, but does not preclude possible chert.

Aug 6 '75

Reko N Pit zone

To clarify the terminology: Levasseur has design. the original quarry in the cut as N Pit A zone; B zone comprises the shugs on the middle & E rjs in the L betw the spur rd & granite M.L.; & C zone is uphill to the SE of A, appar. not yet investigated by anybody.

The middle rj was mapped on July 9 '75, then reworked once again on Aug 6, after the fire. It is clearly underlain by bedrock at shallow depth. This bedrock consists gradm. of andesite & meta-andesite, which is intruded by rel. small bodies of hb. porphy, rhy-dio-dio & leuco-dio, & which is locally alt. to shorn. 3 small occurrences of M have now been seen, all assoc'd with shorn; 2 are on the S end & the 3rd along the E side. Sals are uncommon.

On July 10 a line was run in 307', down on the W flank of the E rj, to the saddle betw it & middle rj. of which on Aug 6 showed that the 3% mapped are now two & consid. larger, due to fire-exposure. They are grad. horn-fide %s & consist largely of meta-andesite, intruded by diorite. No shorn or mag was noted, but the %s need clearing off by a good rain. Strong local attraction was noted betw. stan. 2 & 3+07, but the cause was not apparent, even af the fire.

The rest of E rj is something else. abt the lower 3/4 of the S slope is soil & fine orb, then old sels & L² bloc of ign. rock appear. The upper 30' of the S & SW slopes are strewn with L² pieces of mixed mag & shorn, largely ending at the rim, where at 1 pt. there is a few ft of mag & shorn. However there is a few ft of ign. rock at behind, & the exps are small & unconnected. On the SW L of the rim an exp. of ls. under a ^{stone} root shows mild ^{fracturing} & ft. elongement by sol'n, but is not attached to other exps. & appears to rest on orb. of larger exp. of ign. rock a bit N along the W rim may be genuine %. Farther N there is little rock along the W rim & it is merely a top L. Inside the rim the rj top is flat or shy depressed, showing little rock of any kind. The SE rim is ^{made} by intermittent exp. of ign. rock, & by one exp. of mag & shorn, which has strewn ^{L²} rubble down slope, etc. on the mfg. NNW of the E L of the rim there is abt 500 ft of ls. with at least 10' part. orange, exp. showing mild sol'n features. This should be large enough to be %s, but it cannot reasonably be connect'd up with other ls. exps. The high pt. of the rim on the N is on orb, but 30' to the NW is 50' of leuco-dio that may be %s.

To the N the descending rj is crossed diagonally by small draws & rjs, as if the mter had moved in waves. On 1 of these rjs is a 3rd exp. of ls., showing L & low mild sol'n. This L does not line up with any known L, & ign. rock are on trace down the rj.

It is concluded that most of the E rj has been produced by mass mov't, poss. glacial, more likely landslides. The sol'n pattern in the ls. has evidently dev'd since they reached their present position. The mag & shorn have had recent rdy dispersal. This dispersal seems wider than normally occurs for %s, but is perhaps consistent with bloc encased in loose mter. The source is req'd. The hole in the

Hillside across the S. side of the NE. is immed. apparent, but it seems too low to have produced any but the lower NE sub-eps. of course nearer the coast of the E sounding of Reifrey valley should be sought.

Fairy Creek

Aug. 7 '75

On July 12 a recon. was made on foot up Fairy Lake N/2 to the corner where it turns sharply into the valley of Fairy Cr. The rock in this lower sec'n are generally thin-bedded & recognizable as Lead River, intruded by dykes or small masses of mel-a-dio. They mostly dip NE, but sev. also are recog. with half-metre beds of 5 to 10', & sev. also are sup. by abrupt dips of dip.

On Aug 7 the sec'n across the valley fr. cr. to cr. was walked out, hampered by rain & ^{enveloping} low cloud. Mostly these red cuts present which surfaces, so rock identifi'n is slow & tedious. It would appear that there is some detrit & low ang. or phyllite on the S side, intruded or enveloped by mel-a-dio. NE of the W fork there are some equivocal meta-seds, fol'd by the rose of volc. aspect (but lacking amygs), the whole obscured by disintegration & intrusion of mel-a-dio. The dio itself shows a foliation, which is irreg. folded adjacent to the E fork.

Fr. the last or 3 large rusty patches are visible & seem to line up with the red betw. the forks. The reality is more complex: There are sev. rusty (gouge?) zones, prob. of diff. orientations, plus some interbeds betw. eps where a generally rusty soil has cascaded down. Thus the hope of July 12 that the San Juan fault had been f. does not seem to be realized.

Aug 29 '75

Kestrel Claims - Hemming an slope shugs.

The 2 principal shugs were visited under adverse weather conditions. My guide, Mike Dickens, rept'd there are sev. small mag shugs on this slope, & a new one on the way out. The foll'g route was taken to the principal shugs: From Granite M.L. take the trail up to the open-cut on the high-grade Kennewick slope shug, then climb the shallow draw, carrying mag float, to the crest of the ridge. Climb along the crest of the ridge, which is gashed by many rich dikes, to a generally flat area which is marked by E & N summits & a higher W summit or ridge. Fr the N summit follow pink & red flagging st. downhill to the 1st of the 2 principal shugs. For on the bottom of this shug, contour Wward for an est'd 400', then \searrow steeply downhill to pick up pink flagging leading to the top of the 2nd shug.

The 1st shug appears to be a band of mostly massive mag rather gaily ls walls. Shug appears to be minor. However the mag exposure is fragmentary, & overall grade & continuity cannot be demonstrated. The band as thus poorly delineated appears to be steep or vertical, to diverge sly to the st. fr a small trib. of the W Fork of Hem. Cr., & to cross it at the upper end. It has an apparent width of fr 10' to 50' & an appar height of 130', with a somewhat greater length, as the slope \angle is somewhat \angle 45°. At the lower end it appears to finger out among ls & its ondesite dykes. The upper end is cov'd, but some mag shows up the ch sed. It is evident in the ls in place on the E side, striking approx. along the contour & dipping gently into the hillside.

The 2d shug occupies a long wedge-shaped ridge between 2 creek gullies. It appears to consist largely of gneiss, which contains pockets & narrow bands of mag. As seen, the grade prob does not exceed 30% Fe. However, lack of time precluded a thorough examination. The upper part has an est'd width of 150', with an elev diff. of 80'. The ridge was not foll'd down to the pt. of the wedge, but Dickens rept'd chaining a slope dist. of 400'. The slope \angle is est'd to be 45°. The E by wallcrack was not det'd, tho the E gully can be readily crossed in its upper part, but fr exp along the route in it is assumed to be largely ls. The W by gully has vly vert walls where mag is present, but an extension of the contour route for shug 1 passes above it, only to pass into impassable bluffs apt 150' beyond. These bluffs & the W wall of the gully are buff-colored & mag. a granitic rock. This gives with a 2nd-hand rept. fr traverser & to Dickens; appar. there is some mag in a branched gully entering fr the W.

June 21, 1976

Mr. Martin J. Trim,
Box 580,
Cochrane, Alta.

Dear Sir:

In reply to your letter of the 10th, I could meet you on August 11th, either at the Gold River (Lalet), where I would stay overnight, or on the property. Meanwhile, I will spend a couple of days on the property this coming week to learn what I can of the geology.

I very much doubt that your claims are included in the Park now

July 23 '76

N. of ls. of zones 9-11

It cannot be firmly demonstrated that this ct. is stratigraphic, but the evidence points that way: for ex. see feet down the rd. the rock is ^{predom} andesite, some of it looking little-metamorphosed. While fairly large andesite intrusions can occur in the Quaternary, this one appears too large. Also, the ct. appears too regular, if certain adjustments are made, to be an intrusive ct. This ct. is: regarded as the ct. betw. Quaternary & underlying basement.

The plots on the top map would indic. that the ct. dips steeply NE, or by overturning, but this is prob. illusory. Ground obsn. sugg. that the lat. ch. cuts back much more sharply than the contour would indic., & that the ct. may well be vert.

If gap exists betw. the rd. & the rd., it should be filled if time permits.

July 24 '76

Bulge of S belt of ls. across G 3510

The Reake mapping of roads & rocks is inaccurate: the road curves are in the wrong places, & the overall scale is $< 1" = 200'$. There is no o/c to support much of the ls. bulge to the N.

When this is said, a prob. remains: there are 2 ls. rps. trending at a large \angle to the ls. belt.

Mapping shows that this ls. bulge has been sep'd fr. the rest of the S belt by a meladior stock. Its intrusive nature is proved by rps. of andesite (altho dykes of a later generation of andesite complicate the picture). The actual ct. of meladior & ls. at G 3510 is cov'd in a draw, & could be faulted, but no ls. was f. SE of the draw, & the overall cutoff of the ls. is intrusive. Below 3510, the ls. is intruded by both andes. & leucodior at its N limit of exposure, & above it appears to be encroached on by leucodior, which then encroaches on the meladior of the ls. is gone twd G 3500.

July 25

NW end of S belt ls.

Lo o/c below the foot of G 6200 ^{& N word} was f. to be more extensive than previously mapped, but it is enclosed in meladior to the W, SE, & S; & is prob. a large xenolith, structurally detached from other bodies of ls. Karpow Cr. has cut a near-canyon where it crosses what appears to be the main strand of the S belt, & only the N part of the acc. could be

Examined; it was also impractical to cross to the E side. On the W side no actual
it is exp., but ls in the sed & lower wall is close to meta-dio. sigs to the N & W, &
appears to dive under it. Between the road & the canyon rim, leuco-dio is
common, & forms cliffs under the closest approach of the road.

The S strand of the S belt is repr. by a solitary 40' of ls in the E bank
of Peepew Ch. It is in near-contact to the S with meta-dio & andes, while to the
N there are sporadic $\frac{1}{2}$ cs of meta-dio. No $\frac{1}{2}$ cs of ls occur in the slack to the E or
SE, & this body of ls. is prob a large xenolith, unattached to the S belt.

Most of the NE ct. of the S belt of ls appears to be intrusive. The SW ct. appears
to be stratigraphic at G.M.L., but to the NW it too becomes engulfed. It has not
been sufficiently studied to the SE, but on G 3000 it appears to be in near-ct.
with both andes. & leuco-dio. The ct. may or may not be stratigraphic here.

The large size of the ls belts would indicate that they are roof pendants, rather
than inclusions. It is less certain now that they are synclinal infolds, although
they may be generally so. The SW ct. of the N belt appears to be stratigraphic
for Peepew Ch to the crest of the E ridge, & the NE ct. appears to be stratigraphic W of
the saddle pit fault on the Hemmingen slope. In most outcrops the ls. lacks positive
bedding structure, but these are commonly present on this Hem slope, ranging fr. near-
v. the ct. to near-horiz. at zone 10 toward the ridge crest. This would seem to indicate
a synclinal axis passing through the ridge crest. Contrary evidence to the synclinal
hypothesis is provided by the ls. xenoliths down in the valley below the belts: these
would have had to founder, whereas experience in the Holy Area would indicate
they will tend to rise on magma.

Another fact emerging in 1976 is that of the meta-dio as an active magma
in its own right, rather than as a thin border zone broken up by later surges
of magma. It has punched stocks thru both belts.

July 28

Saddle Pit fault, N belt ls. & q. monz.

The N ct. of the ls has been traced & projected into the fault for both sides, & the
left-hand offset is just abt 1,000'. When the S dip of the ct. is taken into acct. the horiz.
offset would be abt less. SW of Peepew Ch. ls is in fault ct. with ls, & the fault could not
be identified. On the Hemmingen slope it disappears under extensive oob.

On the N ridge abt 650' E of the saddle pit the ls. is in direct ct. with ^{redded} andesite
tuff lying $280^{\circ} 65' S$. While this ct. is in part intruded by felsite, andesite, & both leuco- & meta-
dio, & both the tuff & ls. are caught up as near in leuco-dio, the gen'l N line of the ls.
passes thru this ct. with tuff, & overall disruption by intrusion appears slight. There does
however appear to be at least one transverse fault with a few tens of ft. of left hand offset.
So, generally the N ct. is stratigraphic & S-dipping here, & presumably right-hand-up.
W of the fault & near the sliver of ls. along G.M.L., andesite shows a faint, crude banding, &
could be tuffaceous, hence helping to confirm the correl. across the fault.

The high cliffs overlooking zone 11 had looked like mag. fr. some distance, & it was
expected that this rock would cross the N ridge toward the main summit at the SW end. The

etc. with ls was however f. to cross obliquely E of the easterly minor summit. The rock is buff to almost white, m/q to gray. f/g, & ct's abundant to sparse qz. There seem to be genly 2 feldspars, & the rock is prob. qz monz. The weath'd surf is genly chalk-white & is commonly thinly coated with black lichen or fine dyles of the rock cut the ls nr. the etc., but overall the etc. is clean and sharp as compared with the messy etc. of the diorites. It was not traced down the Hemmingway slope, but the strike would project it close to zone 4. On the Kennewick slope it angles down toward the first forks of GML & disappears under extensive cov. The most wly etc. at the forks is of andesite, presumably intrusive into the ls, intruded in turn by a light-coloured dyke which resembles leuco-dio more than q.m. There is 70% etc. along either road fork, but extensive q.m. float along the upper one.

Is. cut by weath'd dykes was traversed up onto the E nose of the low hill between the forks of Kennewick Ch. Thence & up over the hill the ls is gradually dyked out by diorites, which die under cov. toward the saddle.

Tonnage, & Grade Estimate

REAKO Granite Creek Property - zone 2

62,860 tons averaging 37.52% Fe

43,140 tons averaging 27.00% Fe

49,835 tons averaging 22.52% Fe

Drill indicated.

Zone 1 = S Pit A	10,269 tons	- 49.36% Fe	Cu mostly < .2%	9,300 tonnes
2 = S Pit B	62,860 "	- 37.52%	" " < .2%	57,000 "
3 = S Pit C	16,193 "	- 51.14%	.26 - .41% Cu	14,680 "
	<u>89,322</u> "			
4 = Martins	26,800 "	- 38.17%	Cu < .1%	<u>24,100</u>
				105,080

Cutoff grades: 30% Fe
0.2% Cu

Zone 5 (NW) 29,122.00 tons - 32.309% Fe + 0.709% Cu
11,535.00 tons 40.319% Fe
also 17,000 tons at 34.577% Fe

PROPERTY FILE

file under 92C090

xR 091
110

1.08	0.00
1.68	25.00
1.44	15.06
1.52	25.21
1.08	14.56
<u>6.70</u>	<u>83.33</u>
.41	41.20
<u>.72</u>	<u>20.83</u>
<u>7.83</u>	<u>145.36</u>
7	7

Area of 4-3 sec'n = $\frac{30 \times 90}{2} - \frac{6 \times 12}{2} = 15 \times 90 - 3 \times 12 = 1350 - 36 = 1314$
 Vol. of 4-3 block = $1314 \times (17.5 + 12.5) = 1314 \times 30$
 At 20.77% Fe T.F. is 9.8

$\frac{1314 \times 30}{9.8} = 3950$ short tons

Av. Cu = 1.12% Av. Fe = 20.77%

5' x 1.28 = 6.40	5' x 44.74 = 224
$\frac{7' \times 0.72 = 5.04}{12'}$	$\frac{7' \times 37.77 = 264}{12'}$
11.44	488

Area of DDH 10 sec'n = $\frac{18 \times 6}{2} + \frac{24 \times 8}{2} = 54 + 96 = 150 \text{ m}^2$
 Vols of tails = $54(12.5 + 5) + 96(12.5 + 8)$
 $= 54 \times 17.5 + 96 \times 20.5 = 945 + 1970$
 At 40.9% Fe T.F. is 8.35

$\frac{2915}{8.35} = 350$ short tons

Av Cu = 0.955% Av. Fe = 40.9%

5' x .37 = 1.85	5' x 31.14 = 156
5' x .88 = 4.40	5' x 32.80 = 164
3' x .36 = 1.08	3' x 0 = 0
5' x .28 = 1.40	5' x 40.77 = 220
5' x .11 = .55	5' x 33.86 = 169
5' x .12 = .60	5' x 48.24 = 241
$\frac{3' \times .32 = .96}{31'}$	$\frac{3' \times 41.98 = 126}{31'}$
10.84	1076

surf. area = $15' \times 10' = 150 \text{ m}^2$
 Thickness = 13' Vol. = 13×150 cu ft.
 At 34.8% Fe T.F. is 8.78
 $\frac{13 \times 150}{8.78} = 222$ short tons

Av. Cu = 0.35% Av. Fe = 34.8%

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1 short ton = .90719 tonnes



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources

Parliament Buildings
Victoria
British Columbia
V8V 1X4

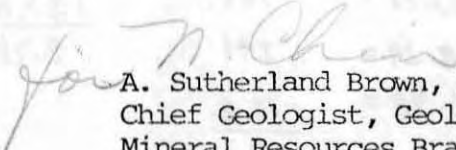
29 July 1980

The Manager
North West Trust
1113 Blanshard St.
Victoria, B.C.
V8W 2H7

Dear Sir:

Please deposit the attached cheque in accordance with the
details given below.

Yours very truly,


A. Sutherland Brown, Ph.D., P.Eng.
Chief Geologist, Geological Division
Mineral Resources Branch

ASB:nhc

NAME: G.E.P. Eastwood
CHEQUE NO. 8513560
DATE: 24 July 1980
AMOUNT: \$272.85
ACCOUNT NO: 3739

c.c. to: P. Eastwood

$$\text{Wt. of } 1 \text{ ft}^3 = \frac{x\% \text{ mag}}{100} \times \frac{1 \text{ ton}}{6.08} + \frac{(1-x)\% \text{ dio}}{100} \times \frac{1 \text{ ton}}{11.3}$$

$$100\% \text{ mag} \sim 72.4\% \text{ Fe}$$

$$100\% \text{ mag} = 72.4\% \text{ Fe}$$

$$72.4\% \text{ Fe} = 100\% \text{ mag}$$

$$1\% \text{ " } \sim \frac{72.4}{100} \% \text{ Fe}$$

$$50\% \text{ " } = \frac{1}{2} \times 72.4\% \text{ Fe} = \frac{100}{50} \times 72.4$$

$$50\% \text{ Fe} = \frac{50 \times 100}{72.4}$$

$$1\% \text{ Fe} = \frac{100 \times 1}{72.4} \% \text{ mag}$$

$$\% \text{ mag} = \frac{72.4}{100} \times \% \text{ Fe} = \frac{100}{72.4} \times \% \text{ Fe}$$

$$x\% \text{ mag} = \frac{100}{72.4} \times \% \text{ Fe}$$

$$\text{Wt. of } 1 \text{ ft}^3 = \frac{100}{72.4} \times \% \text{ Fe} \times \frac{1 \text{ ton}}{6.08} + (1 - \frac{100}{72.4} \times \% \text{ Fe}) \times \frac{1 \text{ ton}}{11.3}$$

$$= \frac{\% \text{ Fe}}{72.4 \times 6.08} + \frac{1}{11.3} - \frac{100}{72.4} \times \frac{\% \text{ Fe}}{11.3}$$

$$\text{Wt. of } 1 \text{ ft}^3 = \frac{.724 \times \% \text{ Fe}}{100} \times \frac{1}{6.08} + \frac{1}{11.3} - \frac{.724 \times \% \text{ Fe}}{100 \times 11.3}$$

$$= .00119 \times \% \text{ Fe} - .00064 \times \% \text{ Fe} + \frac{1}{11.3} = .00055 \times \% \text{ Fe} + \frac{1}{11.3} \frac{\text{ton}}{\text{cu ft.}} = 11.30 \times .00055 \times \% \text{ Fe} + 11.30$$

$$\frac{\text{ft}^3}{\text{ton}} = \frac{11.30}{1 + 11.30 \times .00055 \times \% \text{ Fe}} = \frac{11.3}{1 + .0062 \times \% \text{ Fe}}$$

$$\text{For } 50\% \text{ Fe } T.F. = \frac{11.3}{1 + .031} = 11.0$$

$$\text{" } 72.4\% \text{ Fe } T.F. = \frac{11.3}{1 + .045} = 10.8$$

$$T.F. = \frac{11.30}{.62 \times \% \text{ Fe} + 1}$$

$$\text{For } 72.4\% \text{ Fe } T.F. = \frac{11.30}{.45 + 1} = 24.8$$

$$1 \text{ ft}^3 = \frac{\% \text{ mag}}{100} \text{ ft}^3 + \frac{(100 - \% \text{ mag})}{100} \text{ ft}^3 = \frac{\% \text{ mag}}{100} \left[\frac{1 \text{ ton}}{6.08 \text{ ft}^3} - \frac{1 \text{ ton}}{11.3 \text{ ft}^3} + \frac{100}{11.3} \right]$$

$$1 \text{ ft}^3 \text{ weighs } \frac{\% \text{ mag}}{100} \times \frac{1 \text{ ton}}{6.08 \text{ ft}^3} + \frac{(100 - \% \text{ mag})}{100} \times \frac{1 \text{ ton}}{11.3 \text{ ft}^3} = \frac{1}{100} \left[\frac{\% \text{ mag}}{6.08} - \frac{\% \text{ mag}}{11.3} + \frac{100}{11.3} \right]$$

$$\begin{matrix} .1645 \\ .0885 \\ .0760 \end{matrix} \begin{matrix} .1643 \\ .0885 \\ .0758 \end{matrix} \begin{matrix} .076 \\ .076 \end{matrix} \frac{\text{ft}^3}{\text{ton}} = \frac{100}{100} = \frac{.076 \times \% \text{ mag} + 8.85}{100} = \frac{.076 \times 1.38 \times \% \text{ Fe} + 8.85}{100}$$

$$\text{For } 72.4\% \text{ Fe } T.F. \text{ is } \frac{100}{.76 + 9.9} = \frac{100}{10.66} = 9.38$$

92C090
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Association of Professional Engineers of British Columbia
Victoria Branch

NEWSLETTER

May, 1981

Dinner Meeting - Joint APEBC/AIBC

You are cordially invited to attend a joint dinner meeting of the the Association of Professional Engineers and Engineering Institute of Canada.

GUEST SPEAKER:

Mr. Phil Seabrook, P. Eng., President of the Association of Professional Engineers of B.C. will present Life Membership to four members and certifi-
cates of registration to seven new members. He will be assisted by Mr.
Dan Lambert, P. Eng., Managing Director & Registrar.

He will also talk to the group on "Engineering Manpower Situation".

DATE: Thursday, May 28, 1981

PLACE: Princess Mary Restaurant

TIME: Cocktails 6:30 p.m.
Dinner 7:30 p.m.

PRICE: \$9.00 per person

RESERVATIONS: Phone 385-4468 leaving your name, and the number in your party, preferably prior to May 25, to keep our caterer in a good mood.

ANNOUNCEMENTS

1. Future Victoria Branch dinner meetings are scheduled for September 24, October 29 and November 26. Please note these dates on your calendar.
2. Congratulations to Mr. Brendon Holden, P. Eng. for his recent appointment to the National Research Council's Association Committee for Research on Shoreline Erosion and Sedimentation.

Zone 9

$$\frac{50' \times 25' \times 15' \times 9.07}{6.62 \text{ T.F.}} \text{ tonnes} = \frac{125 \times 15 \times 9.07}{6.62} = 2560$$

Zone 10

$$\frac{25' \text{ wide} \times 200' \text{ slope length} \times 50' \text{ est. depth} \times 9.07 \text{ tonnes}}{7.00 \text{ T.F.}} = \frac{5000 \times 5 \times 9.07}{7} = 32400$$

92C090
PROPERTY FILE

A. Suterland Brown, Ph.D., P.Eng.
Chief Geologist, Geological Division
Mineral Resources Branch

SEARCHED
INDEXED
SERIALIZED
DATE: 29 July 1980
AGENCY: 275-00
ACCOUNT NO: 3173

C. S. TO: P. Suterland



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources

Parliament Buildings
Victoria
British Columbia
V8V 1X4

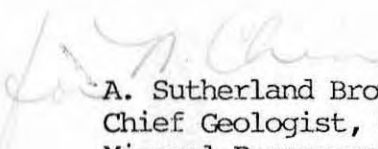
1 August 1980

The Manager
North West Trust
1113 Blanshard St.
Victoria, B.C.
V8W 2H7

Dear Sir:

Please deposit the attached cheque in accordance with the
details given below.

Yours very truly,


A. Sutherland Brown, Ph.D., P.Eng.
Chief Geologist, Geological Division
Mineral Resources Branch

ASB:nhc

NAME: G.E.P. Eastwood

CHEQUE NO. 8530428

DATE: 29 July 1980

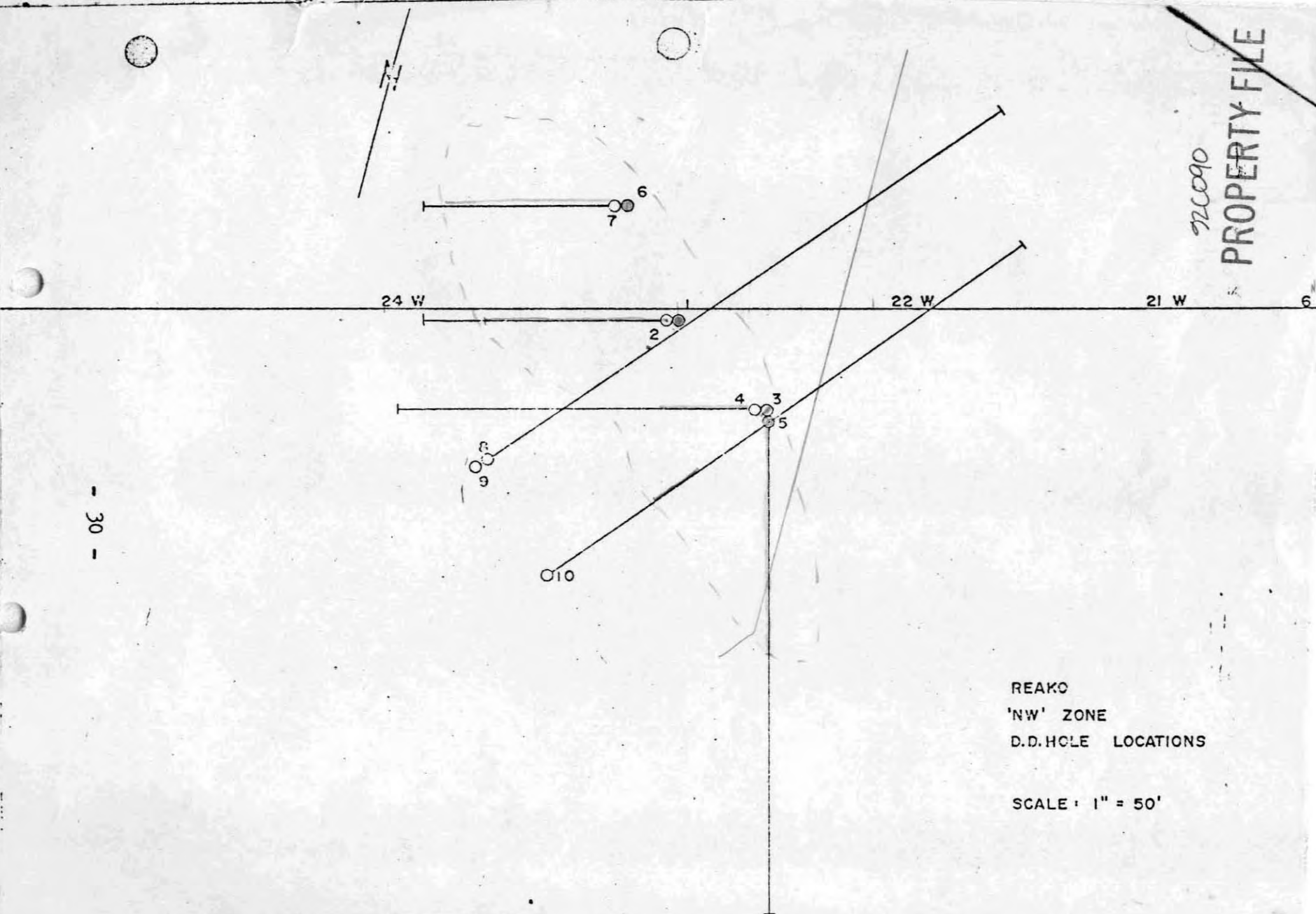
AMOUNT: \$75.00

ACCOUNT NO: 3739

c.c. to: P. Eastwood

220090

PROPERTY FILE

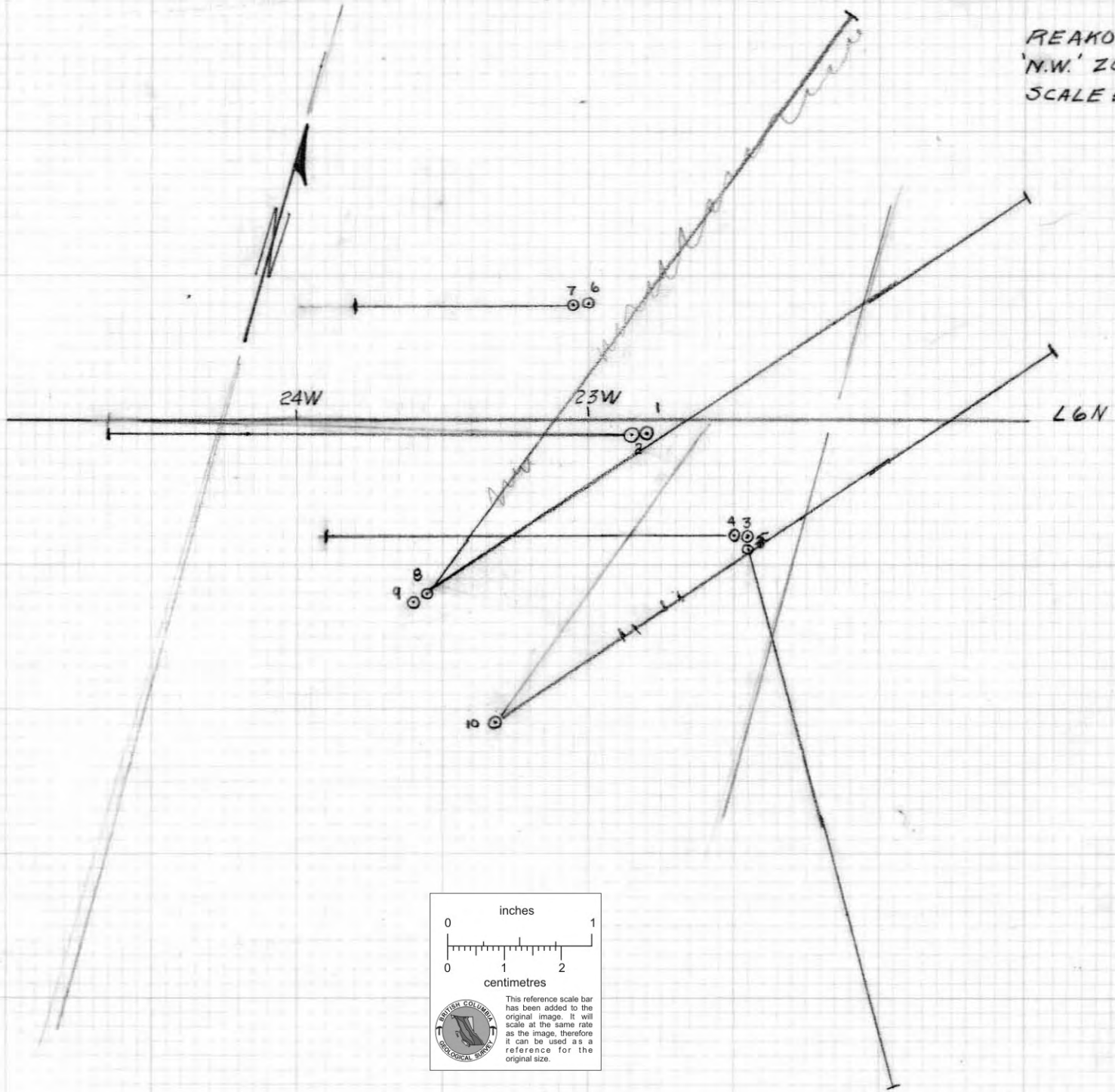


- 30 -

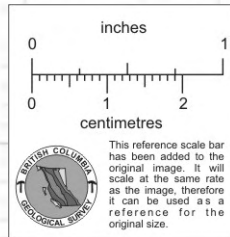
REAKO
'NW' ZONE
D.D.HOLE LOCATIONS

SCALE: 1" = 50'

REAKO
'N.W.' ZONE
SCALE: 1"=50'



92C090
PROPERTY FILE



$$\begin{aligned} \text{Wt. of } 1 \text{ ft}^3 &= 177 \times \left(1 - \frac{\% \text{ mag}}{100}\right) + 329 \times \frac{\% \text{ mag}}{100} \\ &= 177 + 152 \times \frac{\% \text{ mag}}{100} \\ &= 177 + 152 \times \left(\frac{\% \text{ Fe}}{100} \times \frac{100}{72}\right) = 177 + \frac{152}{72} \times \% \text{ Fe} \text{ lb.} \\ &= \frac{177 + \frac{152}{72} \times \% \text{ Fe}}{2000} \text{ ton} \end{aligned}$$

$$\begin{aligned} x &= \% \text{ mag} / 100 \\ y &= \% \text{ dia} / 100 \\ x + y &= 1 \end{aligned}$$

$$\frac{\text{ft}^3}{\text{ton}} = \frac{2000}{177 + 2.11 \times \% \text{ Fe}}$$

$$\begin{aligned} \text{Let } x &= \text{vol. of mag} = \frac{\text{lb. mag}}{329 \text{ lb/ft}^3} \\ y &= \text{vol. of dia} \end{aligned}$$

$$1 \text{ ft}^3 = x + y$$

$$\text{T.F.} = \frac{20(\% \text{ Fe})}{72 \times 329} + \frac{2000}{177} - \frac{(\% \text{ Fe} \times \frac{20}{72})}{177} \frac{\text{ft}^3}{\text{ton}}$$

correct this!

$$\begin{aligned} \text{Wt. of mag in 1 ton} &= \% \text{ mag} \times 20 = \frac{\% \text{ Fe}}{72} \times 20 \text{ lb.} \\ &= \frac{20(\% \text{ Fe})}{72} \end{aligned}$$

this occupies

$$\frac{100 \times \% \text{ Fe}}{72} \times 20 \times \frac{1}{329 \text{ lb/ft}^3} = \frac{20(\% \text{ Fe})}{72 \times 329} \text{ cu ft}$$

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$$\begin{aligned} \text{Wt. of dia in 1 ton} &= 2000 - \left(\frac{\% \text{ Fe} \times 20}{72}\right) \text{ lb.} \end{aligned}$$

this occupies

$$\frac{2000 - (\% \text{ Fe} \times \frac{20}{72}) \text{ lb.}}{177 \text{ lb/ft}^3}$$

no. of Cuft of ore needed to weigh 1 ton

$$\frac{2000(\% \text{ Fe})}{72 \times 329} + \frac{2000}{177} - \frac{2000(\% \text{ Fe})}{72 \times 177}$$

ft³

G. E. P. Cartwood
630

NOTICE - M.E.G. MEETING

Date: Thursday, October 6th, 1977
Time: 12 noon (luncheon meeting)
Place: Georgia Hotel, Vancouver
Speaker: Dr. Allan Sinclair, UBC
Topic: "Analysis of Exploration Data - Casino
Porphyry Copper Deposits, Yukon

This notice was telephoned to me just before noon today (October 4th) and is very late but would you please let me know as soon as possible if you plan to attend.

Thank you,

Gene Russell

Notes: Cutoff Grades 3.0% Fe
0.2% Cu.

6.94

- mainly magnetite 70% Fe.

↙ grade

$$\text{British Tonnage Factor} = \frac{2000 (\% \text{Fe})}{72 \times 329} + \frac{2000}{177} - \frac{2000 (\% \text{Fe})}{72 \times 177}$$

236.88 ↗ density of magnetite (lb/ft³)

[Fe] and [Cu] at depths, taken from ASSAY reports

T.F ⇒ tonnage factor

S.P.A. ⇒

D.D.H. ⇒ diamond drill hole?

T.F ⇒ cubic feet of ore needed to weigh 1 ton.

STO 0

8.44×10^{-2}

x

~~STO 1~~

~~11.3~~

+

STO 1
RCL 0
 1.57×10^{-1}

x

CHS

RCL 1

+

f REG

30076
2000

2000
2000

920090
PROPERTY FILE

Reko zone 5 calculations

Lower lens is cut by 1 DDH in each of 3 sec'ns. Assume it exts. 25' up dip & 25' down dip fr. DDH. Calc. av. grades for DDH & assume for this rectangle. For DDH 8 assume width of intercept up & down dip. Influence of 7-6 sec'n is 25' on either side. Influence of 2-1 sec'n is 25' on one side. For Δ side average in DDH value.

Lower lens NW block	1.21% Cu 44.4% Fe	6,750 st. =	6,120 tonnes
" " middle "	0.82% "	3,400 " =	3,080 "
" " SE "	0.925% "	1,850 " =	1,677 "
Middle " block 1	0.34% " 43.5% Fe	5,420 " =	4,915 "
" " " 2	0.655% "	4,920 " =	4,460 "
" " " 3	1.12% "	3,950 " =	3,680 "
" " " 4	0.955% " 40.9% Fe	350 " =	318 "
Upper lens	0.35% " 34.8% Fe	222 " =	202 "
			<u>24,452</u>

Zone 9	65% Fe est.		2,560 "
" 10	60% Fe "		32,400 "
			<u>59,412</u>

PROPERTY FILE
92C090