

ELK GEOCHEM

COMMENTS

Cu

Bkgd/^{Lat} Dispersions similar, but higher values in till

Till / Less lateral dispersion in till

Anoms appear large / rounded.

Slight implication of a NE strike, not entirely subj. ^{contouring}

Concentrated towards N. end of property & S

Zn

Bkgd. lat. disps. similar, but till values much higher

Till / surface curves v. similar in %anom & anom disps^{gr},
although surf. anomls. curve not too diff from
bkgnd.

Anoms fairly rounded, fairly well grouped.

" concd either on E side or in case of surface,
at lower elevations.

Mo

Bkgd lat. disps. similar, but pronounced diff. in
anomalous regions. Surface Mo does not show
much Δ from bkgd; Till shows high Δ.

Prob. not too signif.

Anoms lge, rounded, in N & W.

General

All bkgd. dispersions look similar

293.75	airf	850.00
97.01	Lwin, veh	479.84
248.20		<u>1329.84</u>
690.88		
<u>1329.84</u>		

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REGION KEN. 1970

Stocks app. M. - Jur.

Bon. - U R → L. Jur.

Bon. | Volc - and-bas
|-----
| sed ls/sh/ss/gw

Rhyodacite flows commonly thinly lam'd & pyrad. May be co-magmatic w/ ^{the} more felsic intrusive stocks

Intrusives - widespread argillic, pyrophyllitization, or silicification of Bonan. may be related to shallow batholith.

Metmsm - v. lo. gr. regional → local dtzn & epdtzn of Bon.

1968 - Felsitic volcs more common to W, incl. welded tuff

RED DOG

Same ~horiz as I. Cu.

cp in hornfels, Mo in shears

ELK
CORRELATIONS

DDS

All DD's outside Cu anom.

" Zn "

" Mo "

Metals

Cu/Mo

Fair in general. 2 v. good ones NE & W.

Cu/Zn

Fair to poor. 1 good. @ S end., 1 fair E side

Mo/Zn

1 only NE

~~Metals~~
Geology

w/Cu

1 on dior. et. NE

w/Mo

" " " " NE

w/Zn

3 in rhyo area NE.

Mag

w/Cu gen'l correlⁿ w/ areas of strongest relief
esp. farm anomaly.

w/Zn farm anom. again

w/Mo much less correlⁿ exc. for slight @ farm.

Rock geom

Cu/Cu vague.

See correl. map

RECOMMENDATIONS

DETAILING AREA 1

New line ~~22~~ 12,600' @ 200'
Old line 9,400' @ 400'

holes
63
23
86

86

AREA 2

New 7,200' @ 200'
Old. 4,400' @ 400'

36
11
47

47

AREA 3

New 8,400' @ 200'
Old 6,300' @ 400'

42
16
58

58

AREA 4

~~New~~ No drilling.

191

RECO

Present grid, W to line 56W & to 70N / 35 to 55 S

40W 75+55 = 13,000
48W 75+50 = 12,000
56W 70+40 = 11,000 } 36,000' 36,000

Present grid N. / 36 + 30 + 35 + 40 + 36 + ~~35~~²⁵ + 20 = 26,970

Present grid E. / 88 + 84 + ~~85~~⁹⁵ + 75 = 25,200
88,170

Total new reco. drilling = $\frac{88,170}{400} = \frac{220 \text{ holes}}{191}$

TOTAL DESIRABLE HOLES = 311

TOTAL LINE CUTTING = 28,200'

TECHNIQUES

pH

I.P. w/ S? & mag.

Apatite?

Ba/Sr.?

E/K

GEOLOGY

Vertical contacts would be compatible with non-intersection of minzle in drill holes

8% apatite could indicate sedimentary origin (see Grandue)

ISLAND COPPER

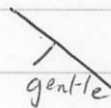
Same belt

Cu, Mo as diss. & unlets in brecciated L. Bonanza Volcs
L tutt, lap. tutt, tutt bx
and. to bas. composition

280 m.t. .52 / .03

Dep. at L. Volc / U. sed Bonanza

Outside ore w. cl, py, zeolites, CO₃, qt., ep.

 "where observed"

Altⁿ zone: INWARDS →

incr. q, cl, seri

OUTWARDS →

CO₃, seri, py

Minzh: in q.f.p. as well as volcanics
accompanied ^{explosive} a bxⁿ of q.f.p.

ROCK CHIP LOCATIONS - ELK

- L-32W - 36N • blotchily-silicified, minor epidotization andesitic tuff
- 24N • pyritized (~2%) v. ^{partly kaolinized (weathering?)} highly silicified rhyolite
- 8N • py (2-3%) & blotchily silic andesite
- 36S • ext f.g. py (1-2%) andesitic tuff (?)

- L-24-W - 12N • pyritized (~3%) v. highly-silicified rhyolite
- 28S • rhyolite, K alt? (prob due to weathering) & poss. some 2ndary biotite

- L-16W - 36N • epidotized (weak) & v. weakly py (<1%) & poss si. andesite
- 28N • vfg biotite granodiorite; no alt, no py
- 12N • silic (?) epidotized andesite or andesitic tuff
- 4S • highly quartzose py (5%) rhyolite

- L-80 32S • weakly py (1-2%) q. diorite, vfg, leucocratic
- L-8E - 40N • highly quartzose py (2%) rhyolite
- 36N • " " " (1%) "
- 12N • py (2%) & ep. leucocratic f.g. qtz diorite
- 48S • v. soft "crumbly" py (1%) tuff v. andesitic comp; prob. soft due to weathering of ash matrix but py not oxidized? ext. silic. py (2-3%) rhyolite

- L-16E - 44N • silic & v. minor py (<1%) vfg diorite
- 40N • v. quartzose weakly py (1-2%) rhyolitic tuff - poss some secondary biot.
- 20N • py (1%) silic ep vfg qtz diorite or dacite
- 8S • py (1%) andesite v. dark v. mafic
- 16S • vfg qd

- L-24E - 24N • well py (5-10%) v. silicic rhyolitic tuff
- 16N • fine py (2%) & silic rhy or rhy tuff
- 8N • weakly py (<1%) ext silicic rhy pebble - might as well call it quartzite
- looks like leucocratic "contact phase" → L-32-E-20S • py (3-5%) v. silicic rhy tuff - py on bedding planes
- L-40E - 28S • slightly silic & py (<1%) vfg leucocratic q diorite