

PROSPECTING REPORT
ON
POWER 1-32 MINERAL CLAIMS

Whitehorse Mining District

N.T.S. 115-H-16

Latitude 61°55'

Longitude 136°08'



By

ALLEN CARLOS

July 1- September 30, 1985

091660

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 3300.00.

DA Emond

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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1. Geological and Geochemical Base Map In pocket

INTRODUCTION

The Power 1-32 claim group was staked in the fall of 1984 following a regional geo-chem and prospecting programme. Old placer test pits and workings were discovered in the immediate vicinity of pan concentrate sample #59.

PROPERTY

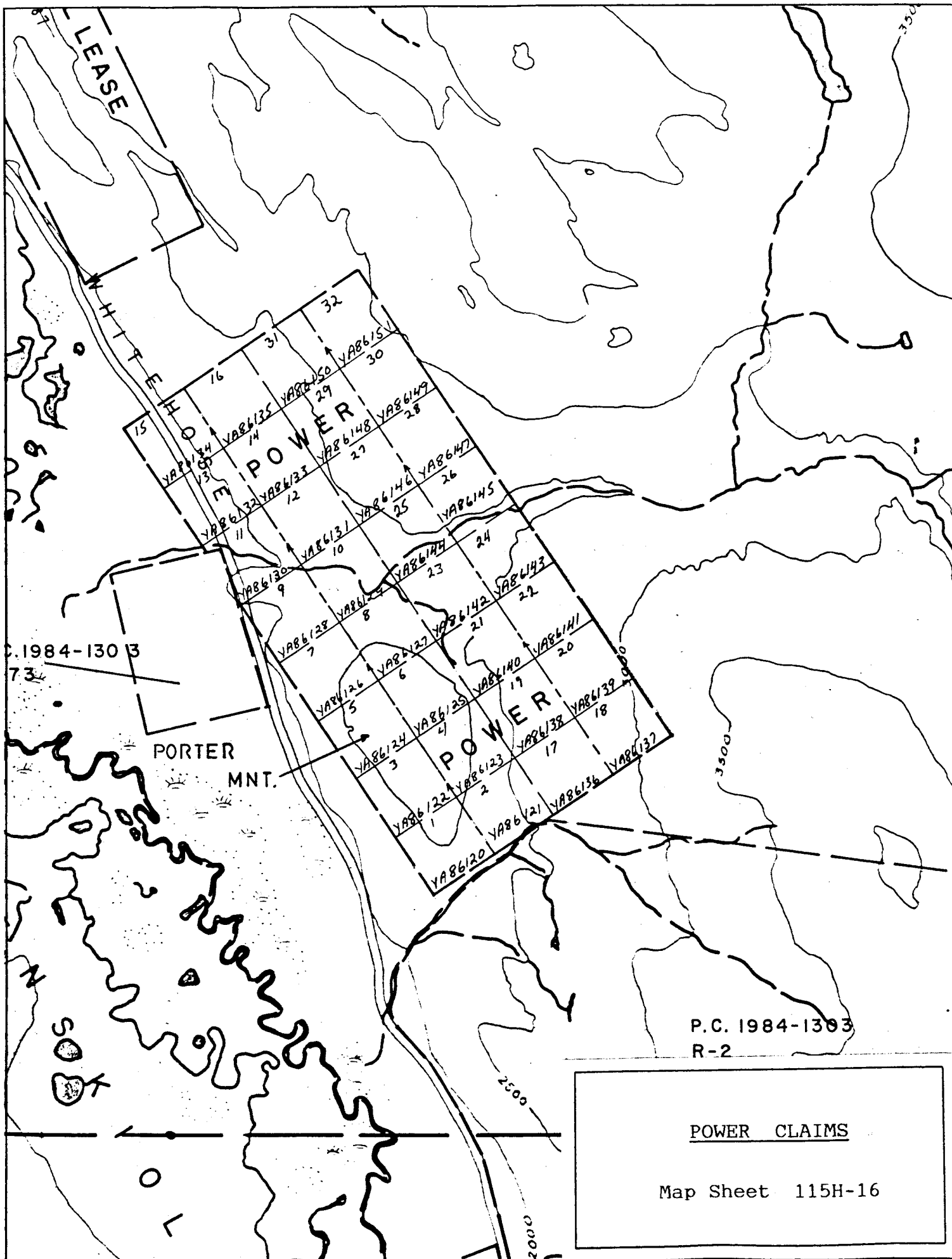
The Power Group consists of 32 contiguous mineral claims as follows:

POWER 1-32.....YA86120-YA86151

The holder of the above claims is ALLEN CARLOS of 13 Aspen Drive, Whitehorse, Y.T.

LOCATION AND ACCESS

The property is very accessible as it directly borders the highway 13 miles south of Carmacks.



LEASE

PORTER
MNT.

SOCK

P.C. 1984-1303
R-2

POWER CLAIMS

Map Sheet 115H-16

1984-1303
73

POWER

POWER



PROSPECTING SURVEY

(a) General Geology

A grouping of essentially acidic volcanics penetrate and overlie the Tantalus formation. These units are in turn intruded by coarse and fine grained syenites.

(b) Geochemical Survey

Seventeen rock samples, eleven pan concentrates and three silts were analyzed for gold and its indicators. The high gold values in pan concentrate samples is especially significant.

(c) Conclusions and Recommendations

The relative young age of the volcanics, the alteration modes, plus features such as banded chalcedony indicate that the anomalous drainage very likely derived its gold from a local source of primary epithermal mineralization.

As detailed prospecting did not determine an exposure of gold mineralized rock, a V.L.F. E.M. survey should be conducted in the immediate vicinity of the PB-zn showing in an attempt to delineate possible structures and- or alteration zones. This work should extend a good distance south-easterly into the totally overburdened area. A reconnaissance line of soil geo-chem might be tried, but its success is not promising due to the nature of the overburden.

"POWER CLAIMS"

Geological Notes to accompany Base Map

1. Rhyolite - brown weathering - tiny quartz veinlets - soft - calcareous specimen.
2. Conglomerate - some tuffaceous sandstone - not silicified.
3. Conglomerate - as #2 - included sub-angular rhyolite fragments.
4. Andesite - magnetic - specimen.
5. Andesite pphy.-magnetic - specimen.
6. Rhyolite - fine grained - sections of this unit brecciated - manganese stain within open spaces - non-calcareous specimen.
7. Rhyolite - near contact - some feldspar crystals - brecciated - dark brown limonite centered in open spaces - light brown limonite on fractures - slightly calcareous specimen.

| | | | | | | |
|---------------|----|----|----|------|----|----|
| <u>Assay:</u> | Au | Pb | Zn | Ag | As | Hg |
| | <5 | 14 | 8 | <0.2 | 6 | 85 |

8. Rhyolite - as #7 only more siliceous.
9. Rhyolite - finely siliceous - non-porphyrific, minor limonite.
11. Siliceous intrusive - medium grained - light coloured - specimen.
12. (R84-56) Rhyolite - fine grained - siliceous - solution banded - some breccia - minor veining - specimen.

| | | | | | |
|---------------|----|----|------|----|----|
| <u>Assay:</u> | Au | Pb | Ag | As | Hg |
| | 10 | 29 | <0.2 | 38 | 40 |

13. Rhyolite - feldspar porphyry - white spheroidal quartz calcite replacements.
14. Showing ZNS-Pbs-FeAsS? - occurs in fine grained int. phase as local float in creek bottom. Intrusive bedrock further up bank contains disseminated Pbs. Galena gives a dark brown Fe-oxide - refer to #7.

| | | | | | | | | |
|---------------|----|------|-------|-----|----|------|-----|----|
| <u>Assay:</u> | Au | Pb | Zn | Ag | As | Hg | U | Sb |
| | 50 | 3800 | 16.4% | 8.0 | 31 | 2400 | | |
| | 50 | | | 5.6 | 70 | 1800 | 7.0 | <2 |

15. Rhyolite - as #12 - specimen.
16. Intrusive - fine grained - brecciated - strong foliation - disseminated pyrite - specimen.

17. "Shear zone in rhyolite" - strike N27^oE - steep dip west. From concentrate #17 to shear - rhyolite - circular and rectangular quartz calcite replacements - minor pyrite - some limonitic vugs - any feldspars totally clay - odd speck of galena and sphalerite - specimen.

17. (R84-52 #2) Rhyolite breccia - manganese stained, at shear - specimens.

| <u>Assay:</u> | Au | Pb | Zn | Ag | As | Hg | Sb |
|---------------|----|------|-------|-----|-----|-----|----|
| | 35 | 2600 | 3400 | 3.9 | 170 | 195 | |
| #72.2 | 20 | 545 | 10300 | 1.7 | 63 | 250 | 3 |
| | 55 | 2500 | - | 3.4 | 550 | 800 | 10 |

18. Pebby quartz schist - believed to be sheared and brecciated rhyolite - green discolouration patches on fresh surface - specimen.

| <u>Assay:</u> | Au | Pb | Zn | Ag | As | Hg |
|---------------|----|-----|-----|-----|----|----|
| | <5 | 103 | 580 | 0.2 | 7 | 25 |

40' further upstream - intrusive. Note: no outcrop within this 40' section - slide material.

20. Shaley tuff? - appears brecciated - odd speck galena and sphalerite - well disseminated pyrite - specimen.

| <u>Assay:</u> | Au | Pb | Zn | Ag | As | Hg |
|---------------|----|-----|-----|-----|----|----|
| | 50 | 143 | 295 | 1.0 | 45 | 35 |

22. Rhyolite - highly bleached patches - specimen. Loc: N5^oW to nose of int. at creek edge - approximately 200' uphill.

| <u>Assay:</u> | Au | Pb | Zn | Ag | As | Hg |
|---------------|----|-----|-----|-----|----|----|
| | 10 | 270 | 335 | 0.8 | 11 | 30 |

Note: From concentrate #17 southwest side of creek to #20 - rhyolite - circular quartz calcite replacements - feldspars not as altered as on northeast side of creek.

23. Rhyolite - fine grained variety - non-porphyrific - highly brecciated - greenish cast on bedrock surface and fresh break - the rhyolite on west side of gulley, though extensively brecciated, has not the greenish colouration - specimen.

24. Intrusive - some foliated - minor disseminated Pbs. - specimen.

| <u>Assay:</u> | Au | Pb | Zn | Ag | As | Hg |
|---------------|----|----|----|-----|----|-----|
| | 5 | 31 | 40 | 0.2 | 11 | 125 |

Note: To east - a highly acid int. dark brown limonite stained - pyrrhotite - attracts magnet.

Note: The altered int. with noted galena does not anywhere have the multi-banded veinlets as noted at showing area.

25. Rhyolite: quartz feldspar porphyry - somewhat bleached near section of silicified material.

| | | | | | | |
|-------------------------------|----|-----|----|-----|----|----|
| <u>Assay:</u> silicified rhy. | Au | Pb | Zn | Ag | As | Hg |
| | 10 | 415 | 56 | 4.3 | 47 | 50 |

Note: rhyolite immediately SE of this point and continuing is fine grained - non-porphyrific.

- 26. Schistose rhyolite - as a whole, the rock is brecciated - silica replaces selective layers - fine grained.

Note: SE of #26 - conglomerate - impressive mixing of schistose rhyolite and conglomerate.

- 27. Syenite pphy. - large inclusions of rhyolite and a lithic tuff seen only at this point within the entire property. Some bleaching of the rhyolite. Very obvious accessory make-up.

- 28. Lithic tuff (rhyolitic) - flow banded. In appearance, has a resemblance to the named rhyolite unit - only it contains accidental material and is often flow banded.

- 28-B. As #28 - charcoal fragments to 2" - intensely folded - some bleached material - specimen.

- 29. Siliceous conglomerate and sandstone - vugs - some hackly quartz on open fractures. One specimen with tiny vein stockwork. Limonite stained. Specimens.

| | | | | | |
|---------------|----|-----|----|----|----|
| <u>Assay:</u> | Au | Ag | As | Hg | Sb |
| #1 | 20 | 0.5 | 14 | 50 | 6 |
| #2 | 15 | 1.5 | 50 | 30 | 5 |

- 30. Dacite to andesite feldspar porphyry. augite and biotite - magnetic - specimen.

- 31. Quartz pebble conglomerate - white - minor larger matrix conglomerate - specimen.

- 33. Rhyolite - fissile - crumbly - iron stained.

- 36. Rhyolite: feldspar porphyry - coarse grained - some clay alteration of feldspars. On surface resembles the syenite porphyry. On break, has rhyolite matrix with included large white feldspar crystals. Found some of this material as float having drusy structures. A contact phenomenon?

- 37. Rhyolite dike - vert. intruding tantalus formation.

- 52. Multi-banded chalcedonic veinlets - to 1/2" thick - widely spaced within int. unit.

| | | | | | | |
|---------------|----|----|-----|----|----|----|
| <u>Assay:</u> | Au | Pb | Ag | As | Hg | Sb |
| | <5 | 40 | 0.6 | 28 | 20 | 7 |

Note: found minor amounts of amethystine silica. Specimen.

53. Conglomerate - cherty pebbles - well silicified - some sections of sandstone with small cavities - some pyrite with sporadic kaolinization of feldspars.

| <u>Assay:</u> | Au | Pb | Ag | As | Hg | Sb |
|---------------|----|----|-----|----|----|----|
| Sandstone | 15 | 13 | 0.2 | 3 | 40 | 42 |

55. Lithic tuff (flow banded) inclusion within int. unit?

| <u>Assay:</u> | Au | Pb | Ag | As | Hg | Sb |
|---------------|----|-----|-----|----|-----|----|
| | <5 | 400 | 0.7 | 31 | 255 | 16 |

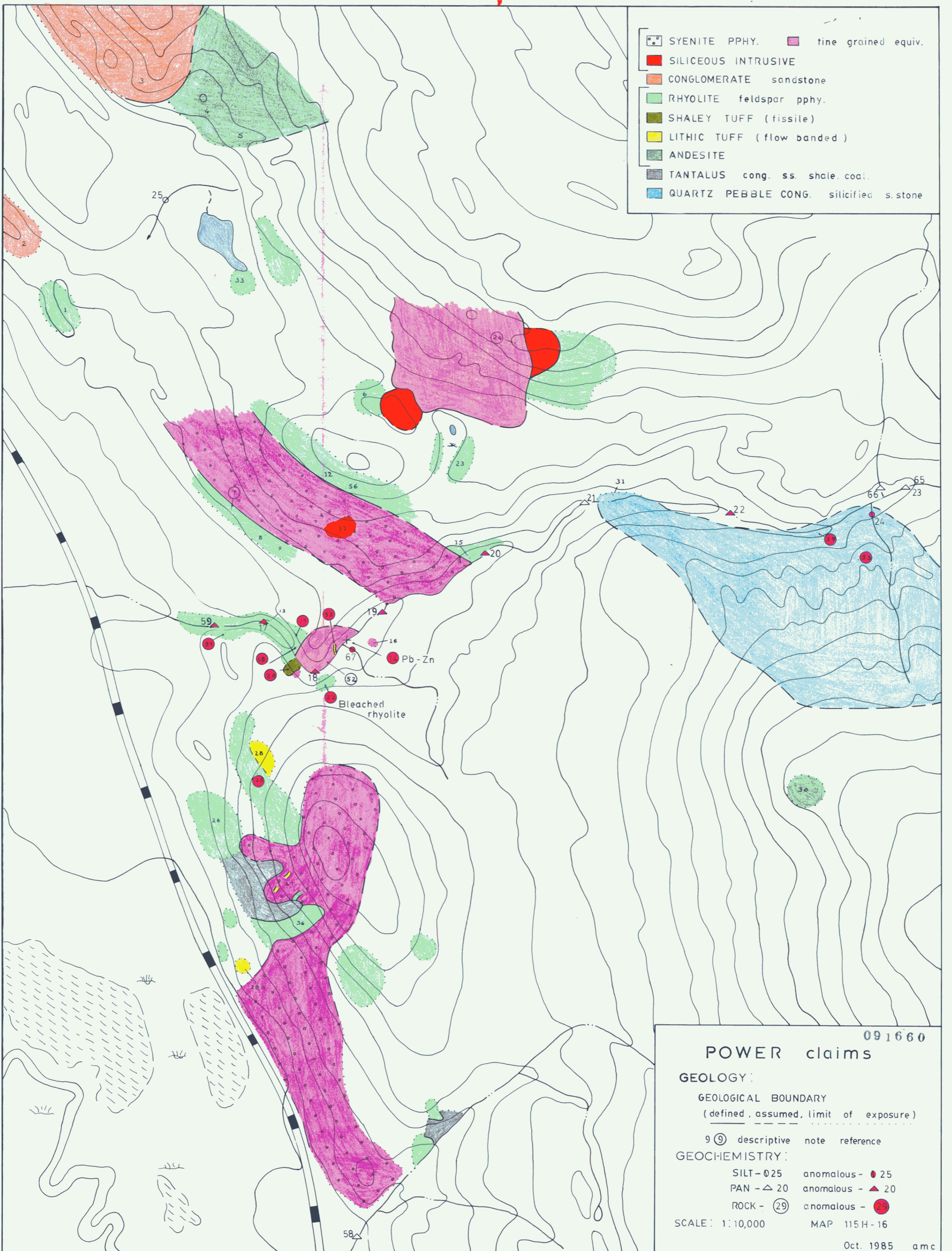
"POWER CLAIMS"

Geochemical results of pan and silt samples
to accompany base map

(Au and Hg in ppb)

| <u>Concentrate No.</u> | <u>Au</u> | <u>Pb</u> | <u>Zn</u> | <u>Ag</u> | <u>As</u> | <u>Hg</u> | <u>Sb</u> | <u>Cu</u> |
|------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| #58 | < 10 | 15 | - | <0.2 | 6 | 35 | 14 | 15 |
| #59 | >10,000 (29 ppm) | 147 | - | 0.4 | 11 | 50 | 11 | 17 |
| #17 | >10,000 (19.6 ppm) | 3920 | 66 | 5.6 | 30 | 100 | | |
| #18 | >10,000 (10.25 ppm) | 270 | 62 | 0.8 | 15 | 35 | | |
| #19 | >10,000 | 82 | 75 | 1.2 | 14 | 20 | | |
| #20 | 9,600 | 38 | 45 | 0.2 | 13 | 35 | | |
| #21 | 95 | 42 | 52 | 0.2 | 17 | 30 | | |
| #22 | 6,500 | 36 | 60 | <0.2 | 20 | 40 | | |
| #23 | >5 | 25 | 46 | < 0.2 | 11 | 30 | | |
| #65 | 60 | 15 | | <0.2 | 4 | 30 | 10 | 14 |
| #66 | 20 | 14 | | <0.2 | 8 | 30 | 10 | 16 |
| | | | | | | | | |
| <u>Silt No.</u> | | | | | | | | |
| #24 | 110 | 9 | 59 | <0.2 | 6 | 60 | | |
| #25 | <5 | 5 | 25 | <0.2 | 5 | 50 | | |
| #67 | 5 | 35 | | 0.3 | 15 | 80 | 2 | 9 |

Note: Silt #67 was in effect a sandy horizon within humus about 2' below surface. Not a good drainage.



- SYENITE PPHY. fine grained equiv.
- SILICEOUS INTRUSIVE
- CONGLOMERATE sandstone
- RHYOLITE feldspar pphy.
- SHALEY TUFF (fissile)
- LITHIC TUFF (flow banded)
- ANDESITE
- TANTALUS cong. ss. shale coal.
- QUARTZ PEBBLE CONG. silicified s. stone

09 16 60

POWER claims

GEOLOGY:
 GEOLOGICAL BOUNDARY
 (defined, assumed, limit of exposure)

9 (9) descriptive note reference

GEOCHEMISTRY:
 SILT - 025 anomalous - ● 25
 PAN - ▲ 20 anomalous - ▲ 20
 ROCK - (29) anomalous - ● 29

SCALE: 1:10,000 MAP 115 H-16
 Oct. 1985 a m c