

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR: 1995/1996

REPORT #: PAP 95-50

NAME: ROBERT YORKE-HARDY

**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)**

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations, section 15, 16 and 17.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name R.W. YORKE-HARDY Reference Number 95/96 P120

LOCATION/COMMODITIES

Project Area (as listed in Part A) see attached MINFILE No. if applicable _____

Location of Project Area NTS see attached Lat _____ Long _____

Description of Location and Access see attached

Main Commodities Searched For opal & gold

Known Mineral Occurrences in Project Area see attached

<p>WORK PERFORMED</p> <p>1. Conventional Prospecting (area) _____</p> <p>2. Geological Mapping (hectares/scale) _____</p> <p>3. Geochemical (type and no. of samples) _____</p> <p>4. Geophysical (type and line km) _____</p> <p>5. Physical Work (type and amount) _____</p> <p>6. Drilling (no., holes, size, depth in m, total m) _____</p> <p>7. Other (specify) _____</p>
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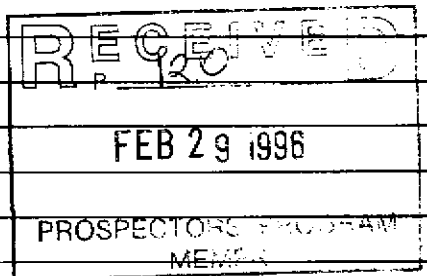
SIGNIFICANT RESULTS

Commodities opal located Claim Name Wood, Gram, Alpo

Location (show on map) Lat _____ Long _____ Elevation _____

Best assay/sample type N/A

Description of mineralization, host rocks, anomalies see attached.



Supporting data must be submitted with this TECHNICAL REPORT

1995
PROSPECTING PROGRAM
SUMMARY REPORT

THE PROGRAM DESCRIBED BELOW WAS CONDUCTED BY:

R. W. (Bob) Yorke-Hardy,
S. 6, C. 45, R.R.# 7,
Vernon, B.C. V1T 7Z3

FMC# 129660

LOCATION # 1:

VERNON / McGREGOR CREEK to WOODS LAKE AREA -

Conducted 16 man/days regional prospecting program for precious opal, agate and other related gemstone/lapidary minerals and industrial minerals (mainly diatomaceous sediments and perlite) on the Alpo mineral claims and in the area from Woods Lk. to Cain Ck. and Cain Ck. to Pinaus Ck..

TARGET MINERALS - PRECIOUS OPAL, AGATE, GEODES, JASPER.
DIATOMITE, PERLITE/PALAGONITE

LOCATION # 2:

WINNIFRED CREEK/KETTLE RIVER -

Conducted a 2 man/day preliminary prospecting program in vicinity of Winnifred Ck.. No staking was conducted as proposed and placer exploration was not permitted due to excessive costs for reclamation bond.

TARGET MINERALS - GOLD (lode/placer)

LOCATION # 3:

DALE CREEK/NIPPLE MOUNTAIN -

Conducted a three man/day preliminary prospecting examination of the opal occurrence found by Don Sandburg. No precious opal was found in the Rhyolite sedimentary volcanics although nodules and fracture fillings of common white and light yellow jelly opal were found.

TARGET MINERALS - OPAL and possible epithermal gold.

PROSPECTING TIME:

R. W.(Bob) Yorke-Hardy personally spent 15 days conducting eligible prospecting activities IN THE FIELD during the 1995 season. Additionally, other qualified prospectors, geologist and helpers conduct a further 6 man days of eligible prospecting activities IN THE FIELD on the same projects with Yorke-Hardy; for a cumulative a total of 21 field days prospecting.

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1995 PROSPECTING PROGRAM

LOCATION # 1

PROSPECTING PROGRAM RESULTS:

LOCATION # 1:

VERNON AREA - VERNON, KAMLOOPS & NICOLA M.D.'s
Upper McGregor Ck. to Upper Cain Ck. and Woods Lk.;
and Upper Ingram Ck. to Upper Pinaus Ck.
Map sheets 82L/5E & 5W

MINERALS LOCATED -

COMMON OPAL, DIATOMITE/Bentonite Clay, AGATE GEODES

GEOLOGY -

The region of this study is covered by Tertiary aged volcanics comprised mainly of basaltic lavas, flow breccias and rhyolite tuffs. Locally the underlying Permian aged Cache Creek Group rocks and Coast Intrusive rocks have been exposed by erosion along deep-cutting creek valleys.

The precious opal occurrences located on the nearby Klinker claims are found within a lahar volcanic debris flow. At some level above this there is evidence of an ancient volcanic lake basin. The volcanic lake bottom (waterlain) sediments are comprised of fine grained rhyolite tuff ash beds intermixed with diatomaceous earth and bentonite clay layers (sandstone &/or siltstone). The fine grained siltstone layers exhibit Poplar-like (deciduous) and Yew or Redwood-like (coniferous) fossils. Locally, intensely weathered (altered?) porphyritic (feldspar phenocrysts) volcanic flows or beds are noted.

Opal displaying a play of color (precious opal) has been found in several locations on the nearby Klinker/Ewerclaims. The precious opal occurs as fracture and vesicle fillings in a sequence of lahar flows. This or similar lahar flows were noted in the vicinity of the powerline several kilometres to the north. There is common opal and jelly opal occurring in these outcrops. Other volcanoclastic flows located to the west between Upper Pinaus Ck. and Woods Lk.-Cain Ck. and along the powerline near Ingram Ck.. There is common opal in some of these outcrops as well. There is a rhyolite intrusive outcropping in the vicinity of the powerline and the very upper reaches of Pinaus Ck.. There is common opal occurring along fractures in this intrusive. The full extent of these "opal bearing" rock units remains to be determined.

Waterlain tuff ash beds and diatomaceous/clay sediment beds located on the Alpo claims. The rhyolite intrusive to the north of the "beaver ponds" on upper Pinaus Ck. is believed to be the probable silica source from which the rhyolite ash and diatomaceous lake sediments and the various common opal/agate occurrences have formed.

If this theory is correct these and similar rock units are all highly favourable for opal deposition with the most probable "opal bearing locations" being in the more porous and absorbent rock units adjacent to fracture zones and possibly as infillings within "clay/ash beds" and "fossil replacements" in the old lake basin.

ACCESS -

Main access routes to the prospected area are McGregor Creek Road, 505 Road and Ingram Creek Road connecting with Hwy 97 to Westside Road.

TYPE OF WORK CONDUCTED -

Regional prospecting for precious and common opal occurrences resulted in the staking of 66 claim units. Other ground bearing opal has been noted and will be monitored in the future. Test pits and trenching along the road edges exposed silica rich lake sediments covered by the Alpo claims.

Note: Some potentially commercial grade common opal (jelly opal) was found but was not tested because the pieces were too small.

The prospecting work planned for outside the Alpo claims was severely curtailed. No further "new" prospecting will be conducted until Government regulations are changed and general access restrictions are revised.

X-ray diffraction analyses and petrographic analysis is being conducted to identify rocks and minerals. Numerous samples were collected by George Simandl of the Industrial Mineral Branch BC-MEMPR from the Klinker claims and from the Alpo claims. No report has yet been received although initial examination suggests that the clasts within the lahar flows all appear to be basalt. Further work to determine the existence of diatoms is ongoing.

TOTAL PROSPECTING DAYS COMPLETED - 16 man days

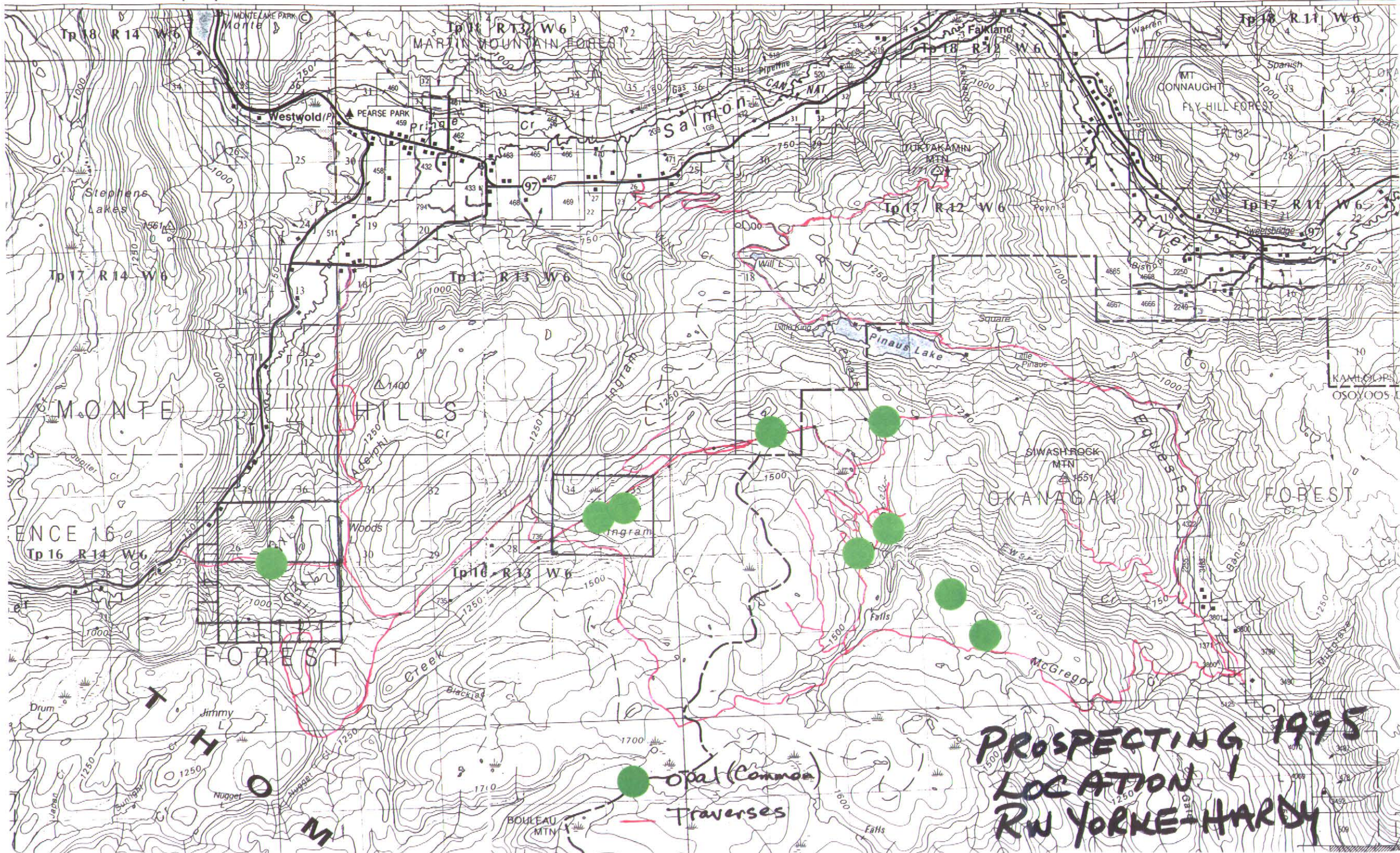
TOTAL VALUE OF WORK PLANNED - \$17,756.00

PROGRAM DURATION - 13 days

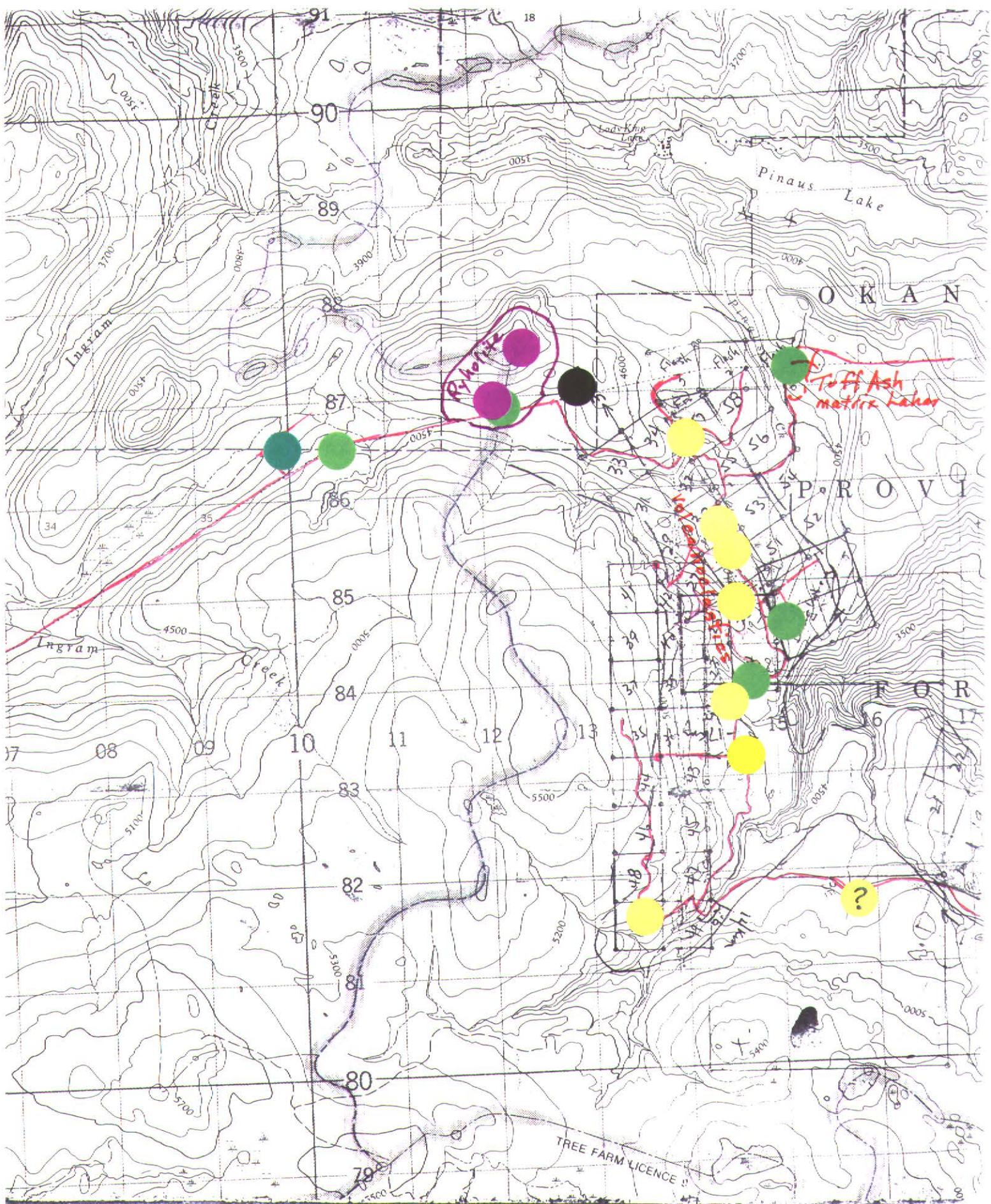
- R.W. Yorke-Hardy ----- 13 days

- Others ----- 3 days

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PROSPECTING 1995
LOCATION
RW YORKE-HARDY



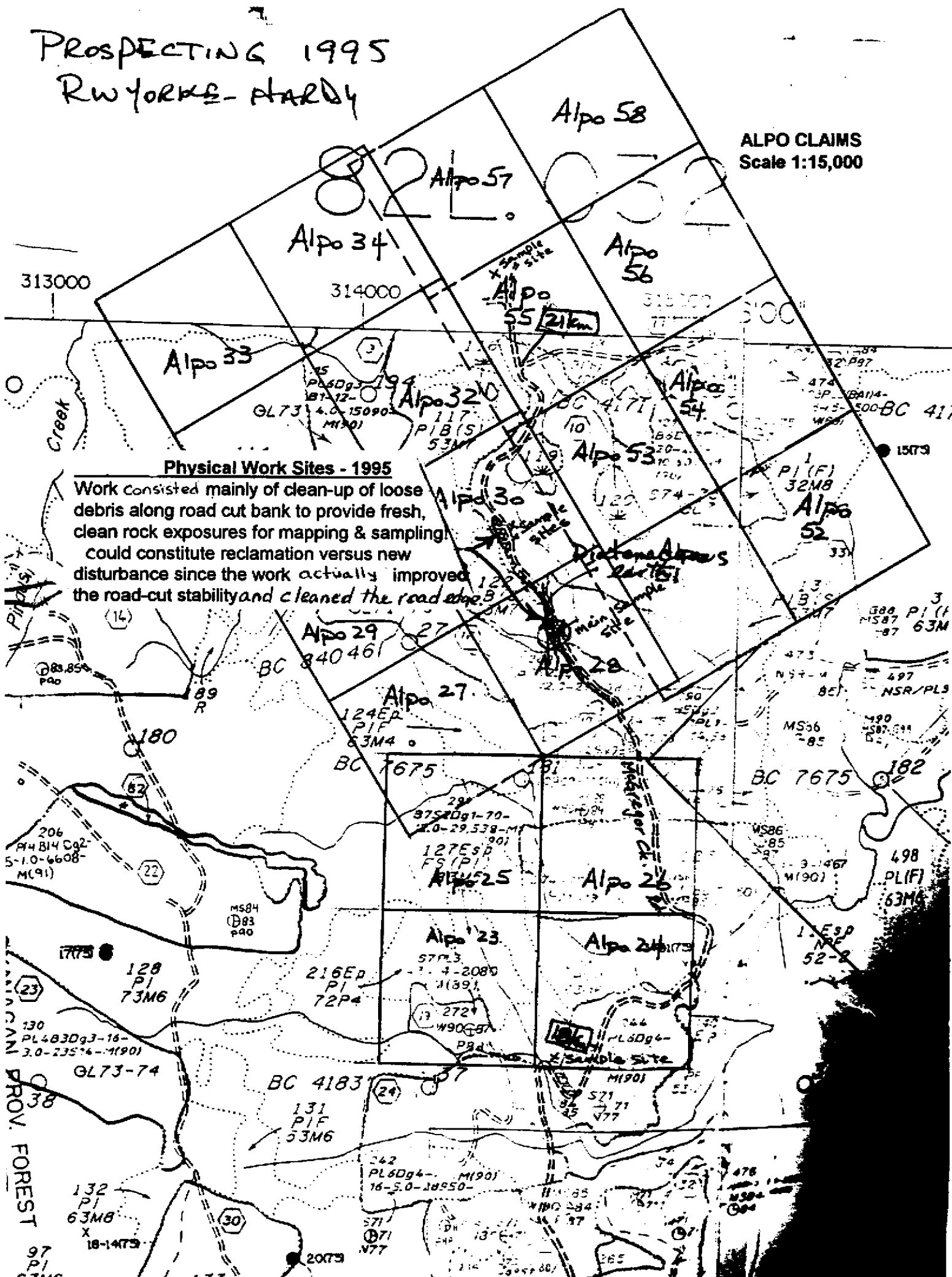
- Eocene Sediments
- Andesite
- Basalt
- Opal
- Rhyolite

1995 PROSPECTING
RW YORKE-HARDY

PROSPECTING 1995

RW YORKS-HARDY

ALPO CLAIMS
Scale 1:15,000



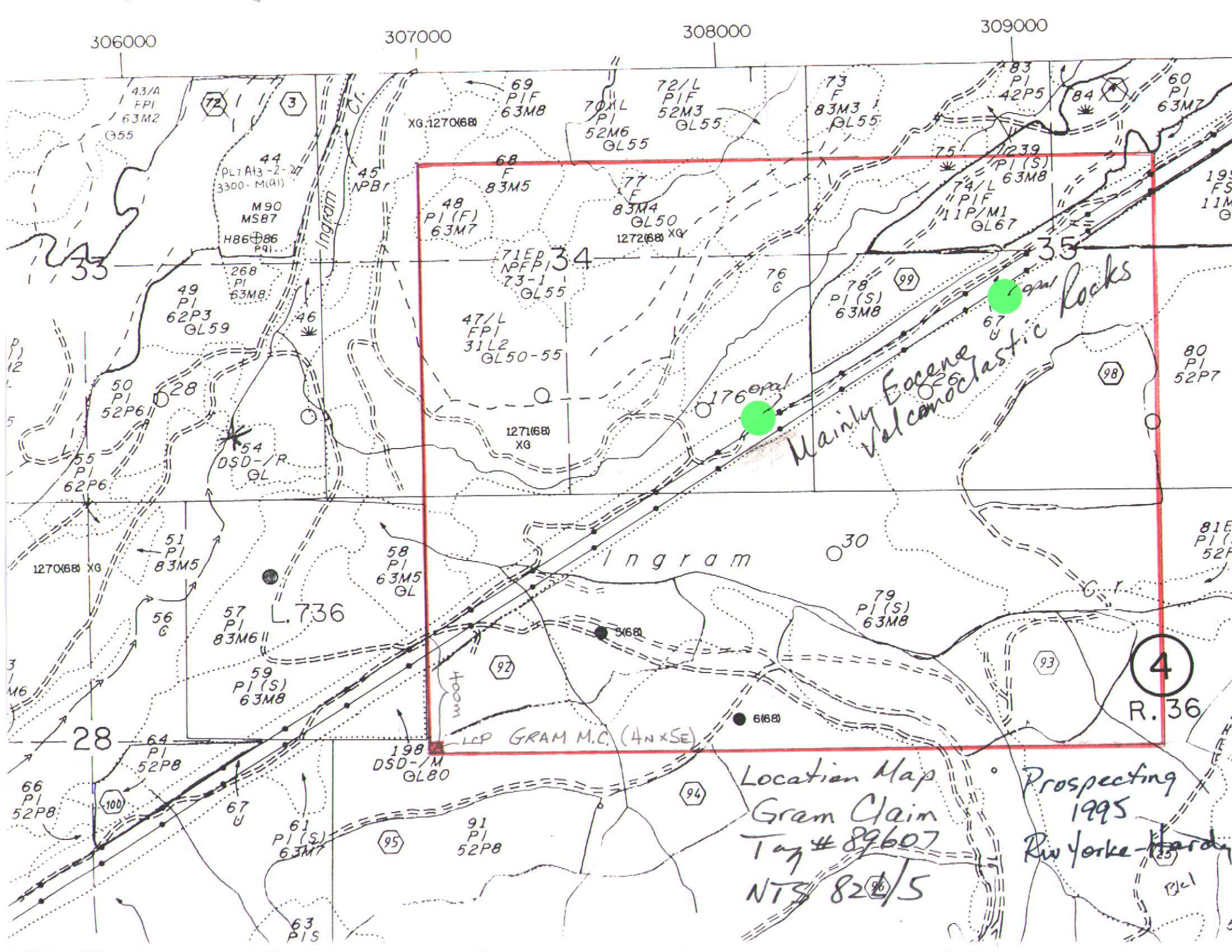
Physical Work Sites - 1995

Work consisted mainly of clean-up of loose debris along road cut bank to provide fresh, clean rock exposures for mapping & sampling. Work could constitute reclamation versus new disturbance since the work actually improved the road-cut stability and cleaned the road edge.

Diagrams Alpo 25-28

Handwritten notes and annotations on the map:

- 313000, 314000, 315000 (Easting coordinates)
- 5000, 6000 (Northing coordinates)
- Alpo 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 52, 53, 54, 55, 56, 57, 58
- BC 7675, BC 4183, BC 180, BC 182, BC 187
- MS84, MS85, MS86, MS87, MS88, MS89, MS90, MS91, MS92, MS93, MS94, MS95, MS96, MS97, MS98, MS99, MS00
- PL60g4, PL61g4, PL62g4, PL63g4, PL64g4, PL65g4, PL66g4, PL67g4, PL68g4, PL69g4, PL70g4, PL71g4, PL72g4, PL73g4, PL74g4, PL75g4, PL76g4, PL77g4, PL78g4, PL79g4, PL80g4
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- 128 PI 73M6, 129 PI 73M6, 130 PI 63M8, 131 PI 53M6, 132 PI 63M8, 133 PI 63M8, 134 PI 63M8, 135 PI 63M8, 136 PI 63M8, 137 PI 63M8, 138 PI 63M8, 139 PI 63M8, 140 PI 63M8, 141 PI 63M8, 142 PI 63M8, 143 PI 63M8, 144 PI 63M8, 145 PI 63M8, 146 PI 63M8, 147 PI 63M8, 148 PI 63M8, 149 PI 63M8, 150 PI 63M8
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306000

307000

308000

309000

XG.1270(68)

69
PI F
63M8

72/L
PI F
52M3
GL55

73
F
83M3
GL55

83
PI
42P5

60
PI
63M7

44
PL7A13-2-27
3300-M(11)
M90
MSB7
H86
P91

45
NPB

68
F
83M5

77
F
83M4
GL50
1272(68) XG

75
PI(S)
63M8

74/L
PI F
11P/M1
GL67

19
FS
11M
G

33

49
PI
62P3
GL59

268
PI
63M8

48
PI(F)
63M7

71E
NPFP
73-1
GL55

47/L
FPI
31L2
GL50-55

76
C

78
PI(S)
63M8

99

80
PI
52P7

50
PI
52P6

54
DSD-1/R
GL

1271(68)
XG

176
op

Mainly Eocene
Volcanoclastic
Rocks

1270(68) XG

51
PI
83M5

58
PI
63M5
GL

Ingram

79
PI(S)
63M8

81E
PI
52P

L.736

57
PI
83M6

59
PI(S)
63M8

92

LCP GRAM M.C. (4N x SE)

6(68)

4

R. 36

28

66
PI
52P8

64
PI
52P8

67
U

61
PI(S)
63M7

198
DSD-1/M
GL80

91
PI
52P8

Location Map
Gram Claim
Tag # 89607
NTS 820/5

Prospecting
1995
Riv. Yorke-Hard

63
PIS

93

942-8020-01 Pinaus Lake FSR

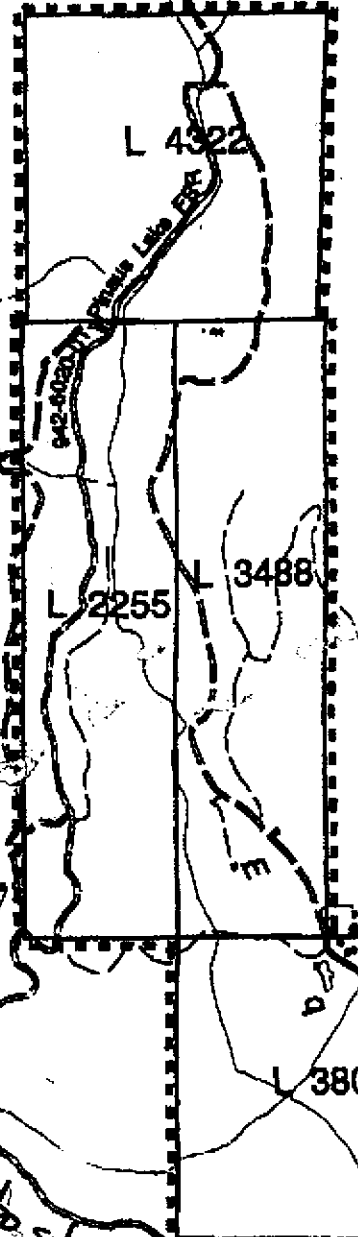
942-5847-81 Brac

SIWASH ROCKS/GEOL

local

Return
18.9km
9A

No Eocene Volcanics
Noted = all older rocks
All rock units
are Volcanics
- andesites
to basalts



FOREST

GAZ 71-12-16
GAZ 87-10-08

CMRC 3403363

942-7586-03

2.5km
to start of Pinaus R.

Siwash Mtn Road
Prospecting 1995
RWYORKE-HALBY



KARMIN

300281

45X4W

Red weathering
Volcanics
- basal
CLIFF line
Apex in Adelphi
- Green clay

Cr.

Adelphi

IVOT

Mainly Eocene Volcanics

traverse

Woods I.

LCP WOOD 142

PROSPECTING 1995
RW YORKE-HARDY
WOODS LAKE AREA

1995 PROSPECTING PROGRAM

LOCATION # 2

LOCATION # 2:

WINNIFRED CREEK (KETTLE RIVER) - VERNON MINING DIVISION - NTS 82E/15E
DESIGNATED FOR PLACER BUT PRESENTLY NOT STAKED.

TARGET -

PLACER GOLD

GEOLOGY -

This area is prodiminantly underlain by Nelson and Valhalla granitoid intrusions of Cretaceous age and small remnants of the Monashee Group metasediments and metavolcanics. Placer gold can be panned from the gravels in Winnifred Ck.. Known gold, silver and base metal mineralization occurs on the west side of the Kettle River on the SAB claims and on Lightning Peak to the east.

ACCESS -

Travel east and south-east from Lumby, B.C. on Hwy. # 6 for 52 kms. and then travel west on the Kettle River Forest Access Road to the bridge crossing Winnifred Creek near the 71.5 km. point. Access to the area will be by road using a four wheel drive vehicles.

TYPE OF WORK CONDUCTED-

Prospected along Kettle River Rd. and side road up Winnifred Creek above the bridge near 72 km. on the Kettle River Access Road. The one day program was limited to looking for skarn alteration associated with Monashee Gneiss outcrops along the road-cuts. The proposed placer prospecting was not undertaken because no work permit was obtained. The proposed placer claim to cover designated placer area on Winnifred Ck. was not staked because of regulatory uncertainty - the present regulations are to onerous.

TOTAL PROSPECTING DAYS CONDUCTED - 2 man days

TOTAL VALUE OF WORK CONDUCTED - ~\$ 500.00

PROGRAM DURATION - 1 day

- R.W. Yorke-Hardy ----- 1 days
- Others ----- 1 days

1995 PROSPECTING PROGRAM

LOCATION # 3

LOCATION # 3:

DALE CREEK north of Nipple Mountain - GRAND FORKS MINING DIVISION
- NTS 82E/NW

TARGET -

OPAL

GEOLOGY -

This area is prodominantly underlain by Nelson granitoid intrusions of Cretaceous age and localized remnants of Tertiary volcanics.

ACCESS -

Travel east and south-east from Kelowna, B.C. on Hwy. # 33 to the Idabel Lk. turnoff. Dale Cr. road leaves the main haulroad a few kilometers south of the turnoff into Idabel Lake Lodge. Don Sandberg's claims are located some 15 kilometers along Dale Creek Road towards Nipple Mountain.

TYPE OF WORK CONDUCTED-

The area examined is covered by four two-post claims staked by Don Sandberg of Kelowna who requested that I visit his property with him. Numerous outcroppings of rhyolite were exposed in the road cuts along the ridge north of Dale Ck. Road. These rhyolites appear to be waterlain as opposed to being flows or intrusives. Locally, water-channels parallel to the bedding are evident and nodules have formed along the roof of some of the open cavities. Some of these nodules are filled with common opal (white opaque to semi-crystal and some light yellow jelly opal). Opal also occurs along some of the vertical fractures crossing the bedding.

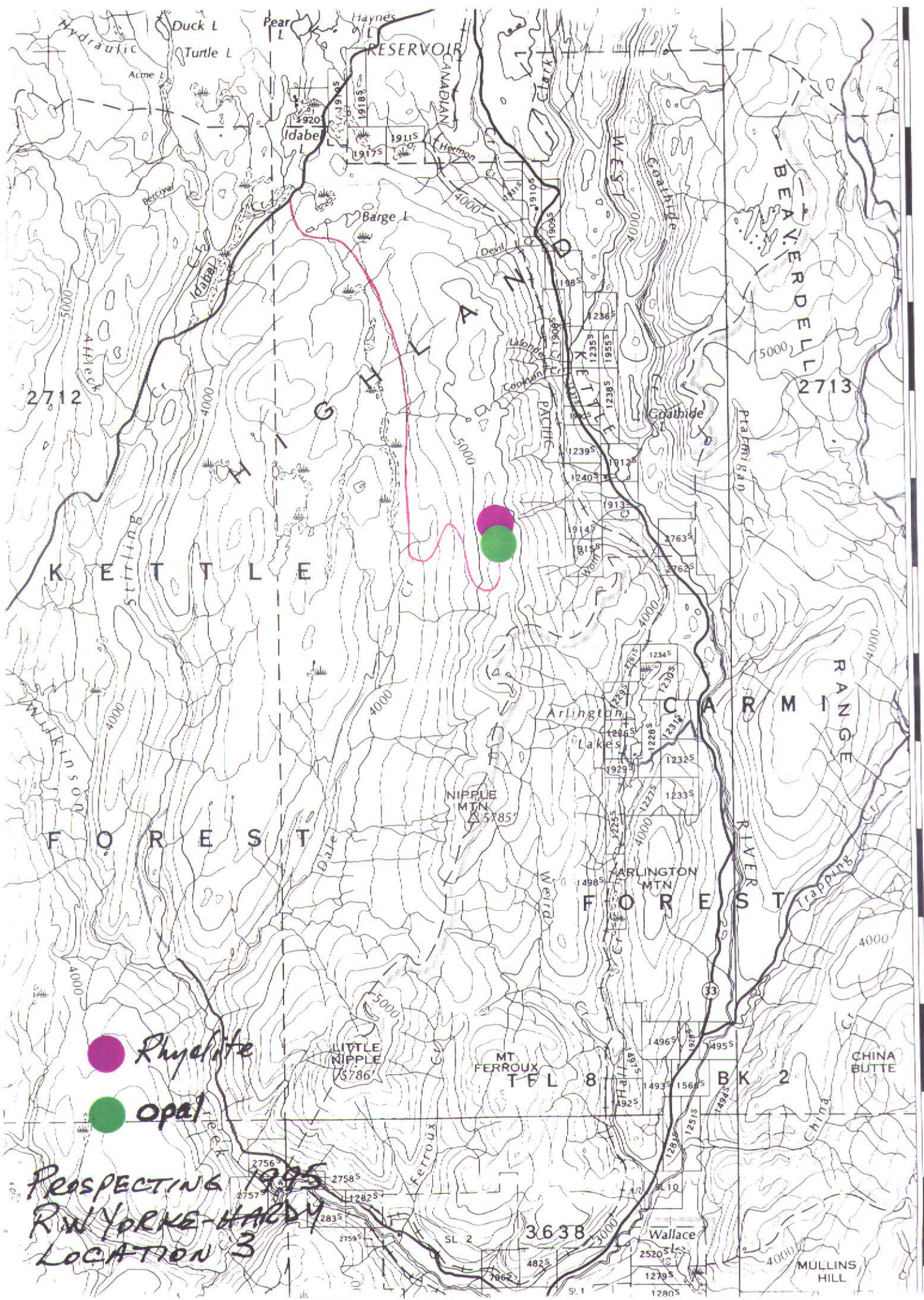
No precious opal was found; however, some Australian opal occurrences form as nodules in similar environments.

TOTAL PROSPECTING DAYS CONDUCTED - 3 man days

TOTAL VALUE OF WORK CONDUCTED - ~\$ 500.00

PROGRAM DURATION - 1 day

- R.W. Yorke-Hardy -----	1 days
- Others -----	2 days



DETAILED DESCRIPTION OF DAILY PROSPECTING ACTIVITIES:

DAY 1: June 15, 1995

ALPO CLAIMS AREA -

General reconnaissance of road access into areas to be prospected. Spent part of the day diverting water that was threatening to wash out portions of McGregor Ck. road. Discovered major washout where Pinaus Ck. crosses 505 Rd. near 21.5km.. Removed debris from blocked culverts to try to lower water level in pool collected behind road.

DAY 2: June 17, 1995

ALPO CLAIMS AREA -

Examine fossil bed areas along McGregor road; at 17.5 km. and from 20 km. to 21 km.. Located several pieces of "opaline" material in talus at 17.5 km.. Fossils are mainly of coniferous origin but a few broad leaf deciduous leaf fossils were found.

DAY 3: June 25, 1995

ALPO CLAIMS 23 & 24 AREAS -

Traversed from claim post northerly along east flank of creek. Encountered numerous outcroppings of "Conglomerate like"; clast supported volcanic debris material. No agate or opal was noted but fragments of palagonite or obsidian occur in this rock unit. To the east near the road outcrops of andesite were encountered.

DAY 4: July 3, 1995

ALPO CLAIMS 26 & 28 AREAS -

Prospected along old trails to the west of McGregor Creek Rd.. Encountered volcanoclastic debris flow material comprised mainly of basalts/andesites. No opal or agate. Some remnants of Eocene sediments were noted but were not found in place.

DAY 5: July 9, 1995

ALPO CLAIMS AREA -

Prospected road cuts up side road at 15 km. on McGregor. Noted lahar flow outcrop in creek below switch back (~16 km). Eocene sed or rhyolite ash beds occur at switch back ~16.5 km. Red hematite stained stringers and blebs occur in brecciated andesites? near 18 km.. Prospected 505 Rd. in vicinity of beaver ponds. Very little outcrop; locally the road is constructed through very heavy sandy alluvial material. No opal or agate noted.

DAYS 6 & 7: Sept. 2 & 3, 1995

ALPO CLAIMS AND WOODS LAKE AREAS -

Excavator was worked along the McGregor road edge between kilometer 20 and 21. This exposed various shallow dipping beds of Eocene sediments. Layers consist of rhyolite ash, diatomaceous/bentonite clay, diatomite? (loosely consolidated white-cream colored, sandy-granular material), basalt flows with highly altered phenocrysts?.

Prospecting in the Woods Lk. area consisted of traversing below red volcanic flow bluffs at about 3.5 mile on old Wood Lake road from Westwold. Agate with green clay coatings was noted to occur randomly throughout the talus below the cliffs.

A traverse was run westward from the south end of Woods Lake through to the Salmon Valley Road on Sept 3, 1995. The rock units consist of basaltic volcanoclastic debris flows/lahars and some white to honey colored, opaque common opal was found. This area warrants further prospecting and was staked in late October.

DAY 8: Sept. 8, 1995

ALPO CLAIMS AREA

Spent a half day with George Simandl (MEMPR Industrial Minerals Division) examining and collecting samples in the vicinity of fossil beds near 20 km. marker of McGregor Ck. road.

George is conducting X-ray and thin section work on these samples to identify rock types and to confirm the existence of diatoms.

DAYS 9, 10 & 11: October 27, 28 & 29

UPPER CAIN CREEK AND 505 ROAD AREAS -

Contract stakers working on Gram and Wood claim blocks.

Traversed upper Cain Creek and 505 Road and side roads off the Powerline from Ingram Rd. along 505 Rd. to McGregor Rd.. Located some common opal along powerline as described by Peter Read and also found agate and common opal along 505 Rd.. Traversed north of 505 Rd. and encountered outcrop of andesite with calcite stringers near creek crossing.

DAY 12: October 15, 1995

WINNIFRED CREEK/KETTLE RIVER AREA

Prospect and collect specimens of skarn altered Monashee Gneiss from along road near the Winnifred Ck. bridge. Minor pyrite and pyrrhotite was noted. These specimens will be cut and further examined at some future date.

Traversed up the logging road and found a trail of quartz with galena and sphalerite. Road banks were badly sloughed so outcrop was not found. Similar to vein material occurring on SAB claims and at many of the Lightning Peak mineral showings.

DAY 13: October 31, 1995

DALE CREEK/IDABEL LAKE - HWY 33 EAST OF KELOWNA

Examined opal occurrence in rhyolite volcanic beds/flows located by Don Sandberg. Don has 4 two-post claims staked over occurrence. Opal ranges from opaque white to light yellow jelly material and it occurs as fracture, vesicle fillings and within "nodule like" occurrences within old water channels. No "play of color" was noted although it might well occur. It was noted that much of the jelly opal was badly crazed and some of the internal fractures cast rainbow-like color patterns. This area is worthy of more prospecting and sampling to determine whether "cuttable" jelly opal occurs.

DAY 14 & 15: Nov. 2 & 3, 1995

INGRAM CREEK AND PINAUS CREEK AREAS

Contract stakers locating the LIGHT claim.

Excavator working for Tolko Logging was active both days. Their work consisted of ditching and locating culverts along the "fossil bed" section of McGregor.

One day was spent traversing the road connecting upper Ewer Ck. to Upper Ingram Ck. and down to the powerline at 13 km on 505 Rd.. No opal or agate was noted and the rock outcrops.

One day was spent prospecting the powerline along 505 Rd. and upper Pinaus Ck.. Occurrence of dark grey rhyolite, locally with common semi-clear to opaque white opal was noted at ~19.5 km. on 505 Rd.. Common white and yellow to amber jelly opal was noted under the powerline along the side road which leaves McGregor Ck. road at 21 km. (on Flash Claims). Eocene sediments with fossils were noted in recently developed ditches at the road junction at 21.5 km. on 505 Rd.. These sediments are the same as those occurring from 20 to 21 km. along McGregor Creek Rd..