

021808

1989

PROPERTY NAME: Rainbow

NTS: 82E/2W

OWNERS: Dentonia Resources,  
Kettle River Resources  
Box 130  
Greenwood, B.C.  
VOH 1J0

LAT: 49° 02'  
LONG: 118° 40'

CLAIMS: Annex, Graham Camp, Rainbow, Downhill, Midway, Midway Fr, M.F., Trout, Horn, Hide, Hoof (149 units)

LOCATION AND ACCESS: The Rainbow property is located about 3 kilometres northwest of Midway. Access to the property is good with numerous old logging and ranching roads from Murray Gulch Creek. The northwest part of the property can be accessed by the Ingram Creek Road.

SUMMARY OF FIELD VISIT: The Rainbow property covers a portion of the western part of the Toroda Creek graben, as shown on the attached figure. Several showings of chalcedonic veining and breccia zones, with anomalous gold values, occur on the property. Recent work on the property by Kerr Addison and by B.P. Resources included geological mapping, minor geochemistry and geophysics, and 460 metres of diamond drilling (in four holes). Only a small portion of the property was tested by these programs. Copies of assessment reports covering this work are attached. Kettle River Resources completed a heavy mineral sampling program of drainages in the area. Very strong gold-arsenic-antimony anomalies occurred in Murray Gulch and Bauer Creek, draining the Rainbow property.

The Rainbow property is underlain predominantly by Eocene volcanics and sediments of the Marron and Kettle River Formations which are preserved in a series of north trending grabens. Minor metasediments of the older Brooklyn and Knob Hill Formations occur locally. A roughly east-west trending belt of serpentine, locally strongly ankeritized, trends across the property, hosting much of

the chalcedonic veining. To the south of this, diorite to quartz diorite intrusions of probable Early Tertiary age are exposed. A number of late Tertiary syenite - monzonite dykes cut the above sequence.

Previous work on the property has been concentrated in the Picture Rock Quarry area. Banded, epithermal, chalcedonic veins, containing breccia clasts of altered serpentinite, occur at the Picture Rock Quarry. Previous sampling by Kerr Addison gave values up to 7.3 g/t Au and 31 g/t Ag from this area although generally results were much lower than this. BP shows the location of a northeast trending structure, the Silica Veined Structure immediately, east of the Picture Rock Quarry. This structure, and the Quarry Zone, were the target of all the drilling to date on the property. Highs to 2.2 g/t and 3.2 g/t Au occur in drill hole and outcrop, respectively, from the Silica Veined Structure.

Detailed grid work by BP covers a total of about 4 square kilometres on lines spaced 100 to 200 metres apart. Soil sample coverage is less than this. Four N-NW trending gold anomalies resulted from the soil sampling program. These anomalies range from 25-125 metres in width and up to 500 metres in length. One outcrop of vein material within the anomalous region gave 423 ppb Au. One drill hole was drilled on the Silica Veined Structure within the vicinity of the soil anomalies however no further follow-up has been done.

Minimal exploration has been done on the Midway Mine, a Pb-Ag (plus minor Au and Zn) mineralized shear zone hosted in an early Tertiary (?) intrusion. Past work has interpreted this as a separate mineralizing event, unrelated to the silicification and chalcedonic veining discussed above. Because of the very close spatial relationship with good epithermal alteration, about 150 metres, it is possible that this represents mineralization within the "base metal zone" of an epithermal system.

In summary, the Rainbow property contains a number of exposures of both epithermal precious metal and base metal (shear zone) mineralization. Although precious metal values are generally sub-economic, the system is very large and little exploration has been done to test it. In particular, no trenching has been done. Since overburden is generally minimal and topography is subdued, backhoe trenching would be an excellent method of exploring alteration zones and of following up soil anomalies.

Seven samples were collected from the Rainbow property, as detailed below.

SAMPLE DESCRIPTIONS AND RESULTS:

		Au ppb	Ag ppm	As ppm	Sb ppm
BCS 18455	Outcrop near MDH-88-4 Chalcedonic veining in alt'd serp	463	3.1	75	1
BCS 18456	Picture Rock Quarry Banded, white chalc.	303	0.2	51	1
BCS 18457	Picture Rock Quarry Pale blue, massive chalc with 10% alt'd serp bx clasts	32	0.7	19	1
BCS 18458	Midway Mine -1m channel across clay gouge zone	357	1.5	62	3
BCS 18459	Midway Mine -30 cm poddy mass. sulfide shear from upper pit	0.354*	830	18750	725
BCS 18460	Midway Mine -2m channel across py, kaol alt'd qtz-feldsp porphyry	0.120*	420	2450	205
BCS 18461	150m SW of Midway Mine Chalc veining in serp.	168	5.8	600	14

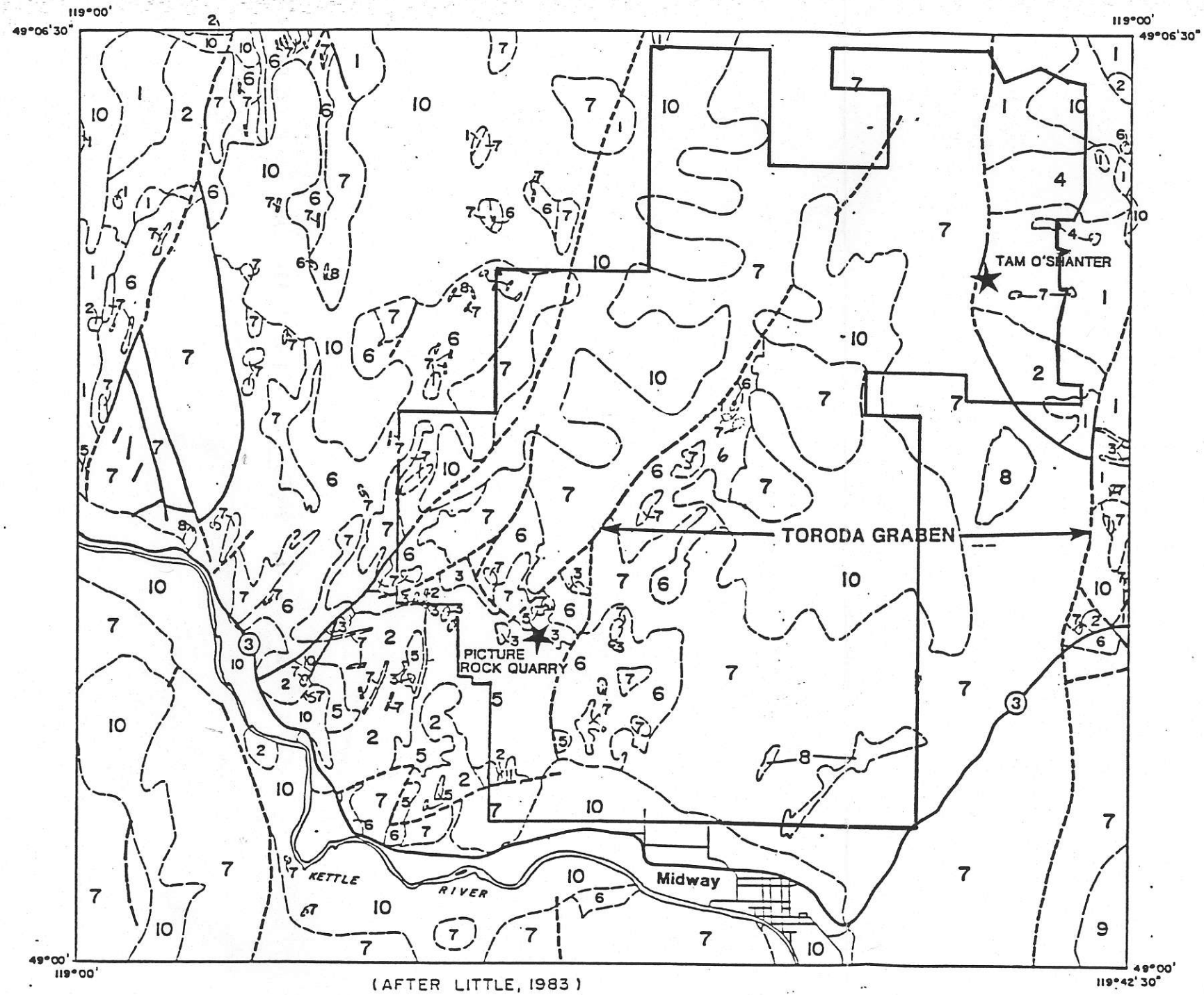
\* values are in oz/t

RECOMMENDATIONS: The Rainbow property is an excellent early stage epithermal system associated with a major Tertiary graben structure. Work on the property to date has not adequately tested the system, which does locally contain economic precious metal values. The property would be inexpensive to explore, being close to town, with subdued topography, and with water relatively close by. The Rainbow property would be an excellent epithermal target and it is recommended that Minnova pursues the property.

REFERENCES:

- Chow, F., 1984. Report on the Rainbow Group of Mineral Claims, Kerr Addison Mines Ltd, filed for assessment.
- Reid, R. and P. Nielsen, 1983. Geology and Ground Magnetometer Survey of the Midway Mine Area, Dentonia Resources Ltd, Assessment Report 11,953.
- Wong, R., S. Hoffman and W. Harris, 1988. Geological, Geophysical, Geochemical and Diamond Drilling Report on the Rainbow Group, B.P. Resources Canada Ltd, filed for assessment.
- Wong, R. and S. Hoffman, 1988. Geological, Geochemical and Diamond Drilling Report on the Rainbow Group, B.P. Resources Canada Ltd, filed for assessment.

L. Lee  
November, 1989



## MAP UNITS

### QUATERNARY

10 UNCONSOLIDATED SEDIMENTS

### EOCENE

9 KLONDIKE MOUNTAIN FORMATION: OLISTOSTROME

8 CORYELL INTRUSIONS: SYENITE TO QUARTZ MONZONITE

7 MARRON FORMATION: TRACHYTE TO ANDESITE AND INTRUSIVE EQUIVALENTS

6 KETTLE RIVER FORMATION: FELDSPATHIC AND LITHIC TUFFACEOUS SANDSTONE AND SILTSTONE, MINOR SHALE AND CONGLOMERATE

### CRETACEOUS OR TERTIARY

5 QUARTZ FELDSPAR PORPHYRY: DIORITE TO DACITE

### JURASSIC

4 NELSON INTRUSIONS: DIORITE TO GRANODIORITE

3 SERPENTINIZED ULTRAMAFICS

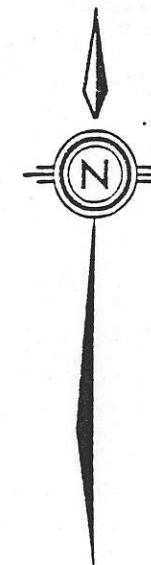
### TRIASSIC

2 BROOKLYN FORMATION: LIMESTONE, SHARPSTONE CONGLOMERATE, MINOR CHERT, SANDSTONE, ARGILLITE

### PALEOZOIC

1 CHERT, GREENSTONE, AMPHIBOLITE

--- FAULT (DEFINED, ASSUMED)  
 ★ TERTIARY EPITHERMAL OCCURRENCES



**BP** BP Resources Canada Limited  
 MINING DIVISION

**MIDWAY PROPERTY  
 REGIONAL GEOLOGY**  
 SOUTHWEST PORTION OF THE  
 GREENWOOD MAP-AREA

SCALE: AS SHOWN	DRAWN BY: R. WONG	FIG. 3
DATE: JAN '89	REV.:	DRAFTED BY: CHONG
N.T.S. 82 E /2W	PROJ: 10136	REPORT: BPVR 88-12