

ASSESSMENT REPORT
on
1997 SUMMER GEOCHEMICAL SAMPLING PROGRAM

TAM O'SHANTER PROPERTY

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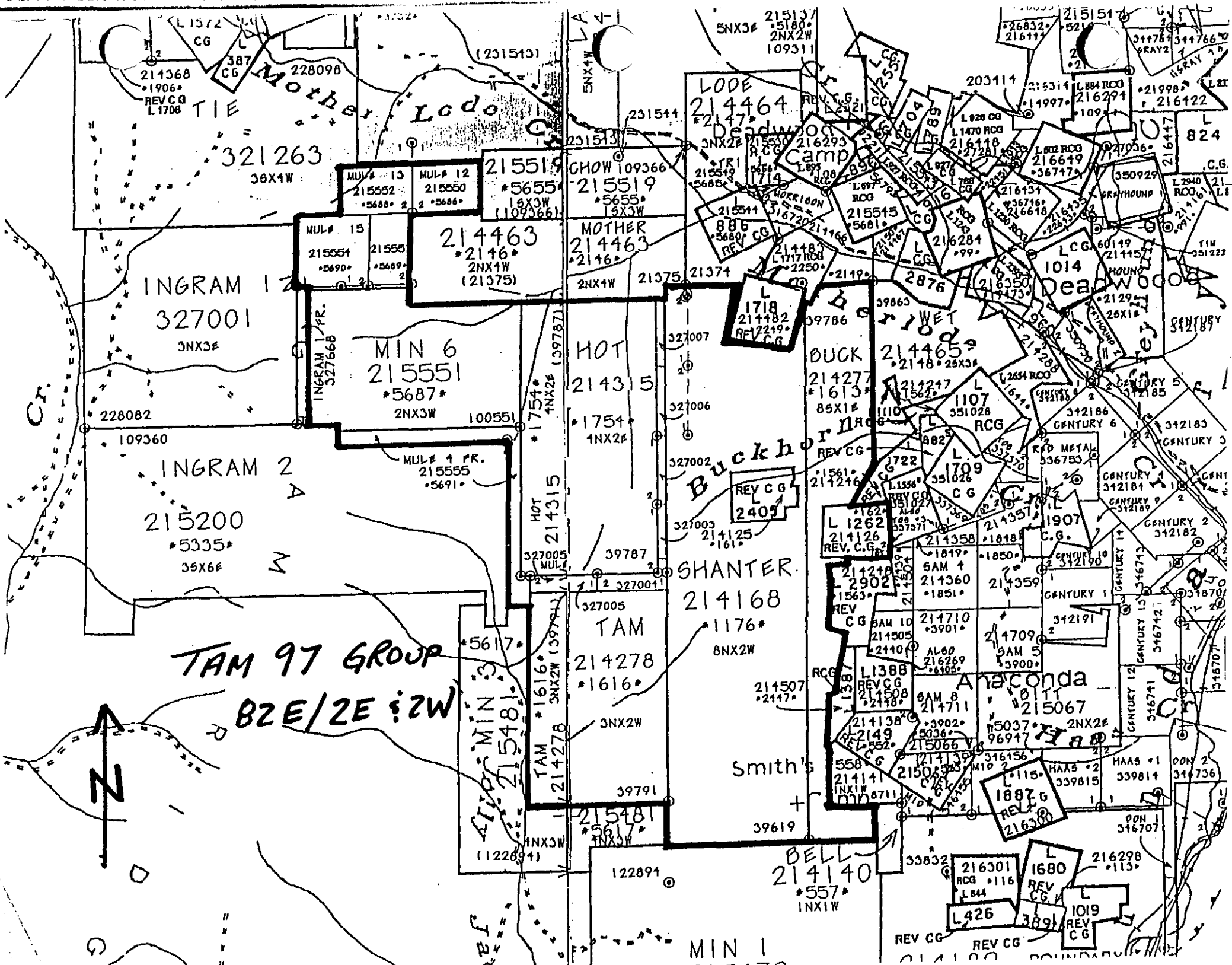
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Kettle River Resources Ltd.
Box 130, 330 Copper St.
Greenwood, B.C.
VOH 1J0

Linda Caron. P. Eng.
September, 1997

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,128



Mother Lode

LODE
Deadwood Camp

Buckhorn

SHANTER

TAM 97 GROUP
BZE/ZE:2W

Anaconda

Smith's

BELL
214140

INGRAM 1
327001

INGRAM 2
215200

MIN 6
215551

HOT
21435

TAM
214278

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BUCK
214277

SHANTER
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REV CG
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L 844

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1.0 SUMMARY

The Tam O'Shanter property consists of 33 claims, totalling 129 units, located about 5 kilometres west of Greenwood, B.C. This report describes the August 1997 soil and rock sampling program on the property.

The claims are underlain by volcanics and sediments of the Late Paleozoic Knob Hill and Attwood Groups, intruded by Cretaceous and Tertiary dykes and stocks, and covered in part by Tertiary (Eocene) sediments and volcanics. The Tertiary rocks form the eastern part of the Toroda Creek Graben in this part of the property. A major northeast trending fault, the Deadwood Fault, runs through the property, forming the eastern boundary of the graben. A large epithermal alteration system occurs in the Tertiary sediments adjacent to this fault. Epithermal alteration and veining also occurs to the east of the fault in the older Knob Hill Group rocks, with locally significant gold values.

Previous drilling identified a northwest trending structurally controlled vein, the Wild Rose vein, at the contact of Attwood Group sediments and overlying (older) Knob Hill volcanics. The vein is mesothermal in nature, averaging 1 - 2 metres in thickness, and with grades up to 20.6 g/t.

The geochemical sampling program described in this report was designed to test the intersection of the Wild Rose and Deadwood faults, in the vicinity of the epithermal style silicified zone known as the "Sinter" zone. A close spaced grid was established in the target area, and a total of 90 soil samples, 1 silt sample and 10 rock samples were collected. No significant areas of anomalous gold values were obtained and further justification for drilling this target was not obtained from the work program.

2.0 INTRODUCTION

2.1 Location, Access and Terrain

The Tam O'Shanter property is located about 5 kilometres west of Greenwood, B.C. (see Figure 1). Access to the property is from Greenwood, via the Motherlode road. The claims can be reached either from a branch road heading west from the Motherlode road, just south of the Deadwood flats, or via an old logging road which heads south off the Motherlode road at kilometre 6.

The claims are situated on the north facing slope of the Motherlode Creek valley, and on the ridge between Ingram and Motherlode Creeks. Elevations range from 1460 metres in the southern part of the claim group, to 915 metres in the eastern section. The terrain is hilly, with several steep cliffy sections. The forest cover is moderate, with mature pine, larch and fir forest and minimal underbrush.

The climate is generally quite dry, with hot summers and little rainfall. Snowfall is minimal, generally less than 1 metre. In the area of current exploration, water for drilling is available from two old drill collars.

2.2 Property and Ownership

The Tam O'Shanter property consists of 33 mineral claims (129 units), as shown in Figure 2 and summarized below. All claims are owned 100% by Kettle River Resources Ltd. Work documented in this report has been filed on the Tam 97 Group.

<u>Claim Name</u>	<u>Record #</u>	<u># of units</u>	<u>Expiry Date</u>
Tam O'Shanter	214125	1	11/20/98
Iva Lenore	214126	1	11/20/98
Shanter	214168	16	07/07/2001
Viceroy Fr.	214246	1	06/11/98
Arlington Fr.	214247	1	06/11/98
Salamanca Fr.	214248	1	06/11/98
Buck	214277	8	06/28/2001
Tam	214278	6	06/28/2001
Montrose Fr.	214288	1	07/09/2001
Hot	214315	8	08/29/98
Mother	214463	8	04/29/98
Wet	214465	6	04/29/98
Gold Bug No.2	214482	1	06/05/98
Ingram 2	215200	18	01/08/99
Min 1	215479	20	12/22/98
Min 3	215481	12	12/23/98
Mule 12	215550	1	03/14/99
Min 6	215551	6	03/15/99
Mule 13	215552	1	03/14/98
Mule 14	215553	1	03/14/98
Mule 15	215554	1	03/14/98
Mule 4 Fr.	215555	1	03/15/98
Ingram 1	327001	9	06/29/2001
Mule 1	327002	1	06/30/2001
Mule 2	327003	1	06/30/2001
Mule 3	327004	1	06/30/2001

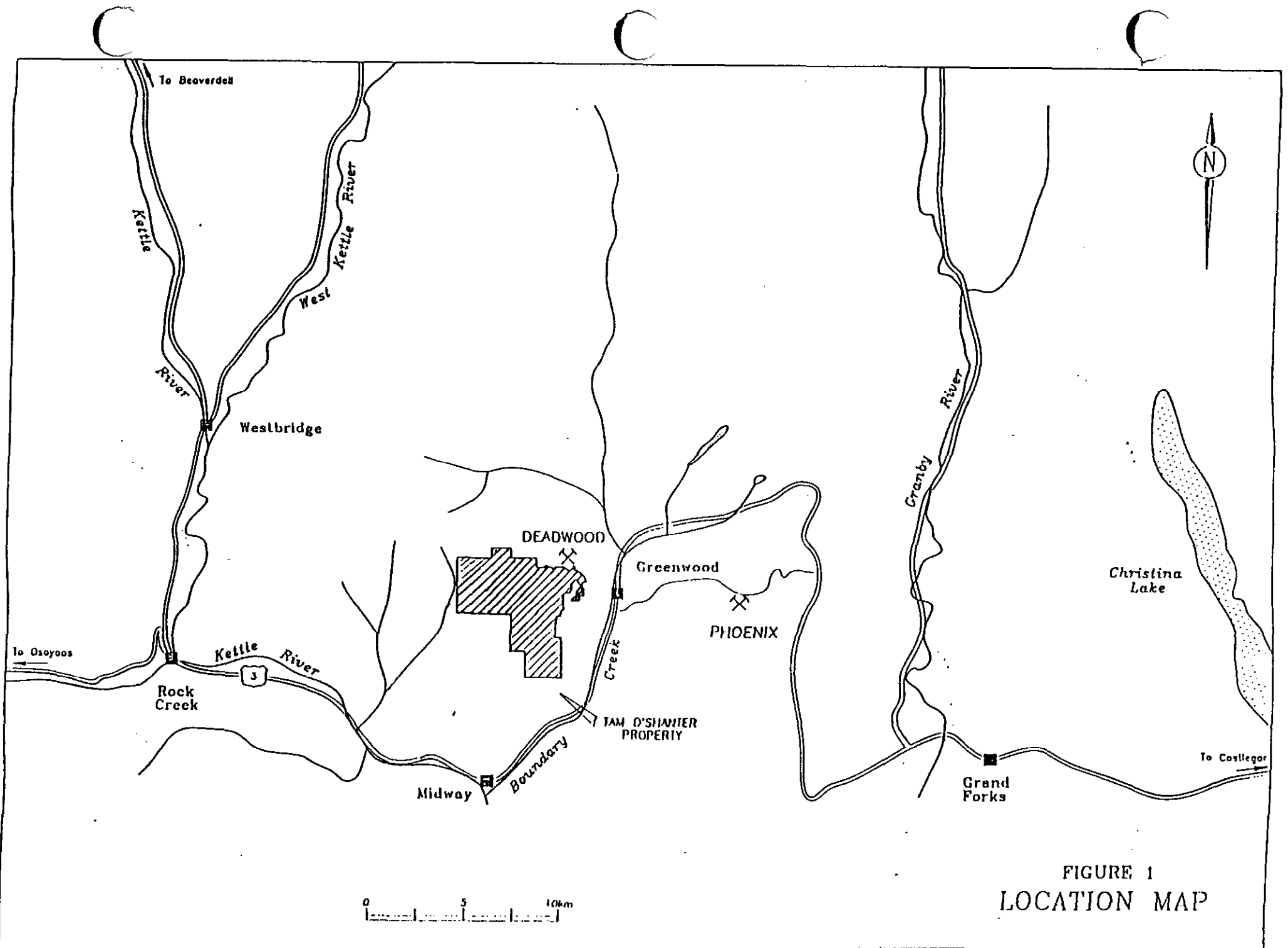


FIGURE 1
LOCATION MAP

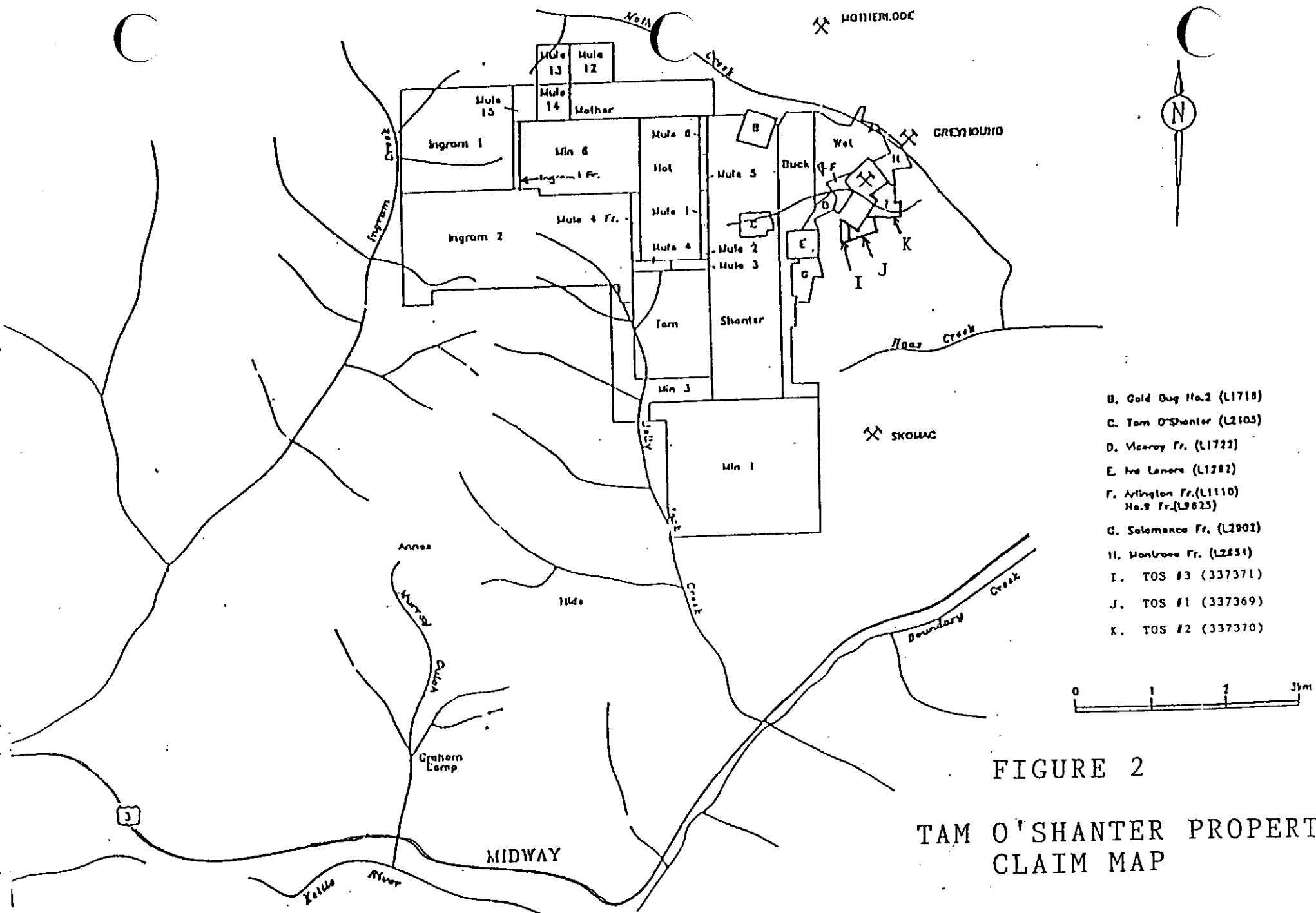


FIGURE 2

TAM O'SHANTER PROPERTY
CLAIM MAP

82E2 E&W

<u>Claim Name</u>	<u>Record #</u>	<u># of units</u>	<u>Expiry Date*</u>
Mule 4	327005	1	06/30/2001
Mule 5	327006	1	06/30/2001
Mule 6	327007	1	06/30/2001
Ingram 1 Fr.	327668	1	07/11/2001
Tos #1	337369	1	06/30/2001
Tos #2	337370	1	06/30/2001
Tos #3	337371	1	06/30/2001

* Expiry dates are after acceptance of this report.

2.3 History

A number of showings occur on the Tam O'Shanter property and a significant amount of work has been done on the claims in the past. A detailed description of the history of the area prior to 1996 is given in Caron (1996). The following is taken largely from this, with several additions.

Exploration in the area dates back to 1981 with the discovery of the Motherlode, about 1 kilometre north of the Tam O'Shanter property, in the Deadwood Camp. In 1894, the first record of work is documented on the Buckhorn, immediately adjacent to the Montrose Fr. and Arlington Fr, No 9 claims of the Tam O'Shanter property. As a result of these discoveries, exploration in the area has historically concentrated on copper prospects in the older rocks.

- 1896 - A 40 foot shaft is reported on the Iva Lenore and on the Goldconda. On the Last Chance, a 65 foot shaft was sunk (BCDM Annual Report 1896).
- 1898 - A 35 foot shaft is reported on the Iva Lenore, and a 40 foot shaft on the Emerald. Considerable work is reported to have been done on the Iron Pyrites and Herbert Spencer (BCT 1898).
- 1903 - The Emerald (L1263) and Gold Bed (L1388) Crown Grants were issued (BCDM Annual Report 1903).
- 1904 - Bengal (L2375) and Tam O'Shanter (L2405) Crown Grants issued (BCDM Annual Report 1904).
- 1906 - Goldconda Fr.(L2149) and Laocoon (L2147) Crown Grants issued (BCDM Annual Report 1906).
- 1908 - Salamanca Fr. (L2902) Crown Grant issued (BCDM Annual Report 1908).
- 1912 - X.L.C.R. (L1556s) and X.L.C.R. Fr.(L1557s) Crown Grants issued (BCDM Annual Report 1912).
- 1919 - Tam O'Shanter (L2405) Crown Grant issued (different grantee than 1904 reference, same lot) (BCDM Annual Report 1919).
- 1921-23 Work was recorded on the Tam O'Shanter. 2 old shafts (from the turn of the century?) and a recent cross-cut tunnel and an inclined shaft are documented. Work in 1921 included 300 feet of drifting and a 75 foot raise (BCDM Annual Report 1921, 1922, 1923). Work is also described on the Goldconda.

- 1933 - Considerable work reported on the Goldconda (BCDM Annual Report 1933).
- 1964 - Silver Dome Mines did extensive work on claims in the Iva Lenore and Tam O'Shanter area. 10 miles of road were built, 13,000 feet of stripping and 6,118 feet of diamond drilling done. Line cutting, magnetometry and soil sampling were also done. Assessment Report 562 covers the soil and magnetometer surveys. There is no (public) record of drilling or trenching, although a later report shows the locations.
- 1966-67 - Utah did a geophysical survey (IP, resistivity) Assessment Report 1067.
- 1966-67 - San Jacinto Exploration did an IP survey (Assessment Report 881).
- 1969 - Consortium of companies including Silver Dome did aeromag survey (Assessment Report 1878).
- 1972 - Sun Oil did percussion drilling (Sun Oil, 1972)
- 1972 - Phelps Dodge did minor geological mapping and data compilation (Assessment Report 4125).
- 1973 - Mapletree Exploration had topo base of area surveyed and completed a geological mapping and percussion drilling program in the area (Dickinson and Simpson, 1973).
- 1973-74- Mascot Mines drilled 27 percussion drill holes. Drill logs are available, but no analytical results (Assessment Report 5023).
- 1975 - Oneida Resources acquired property.
- 1979 - Oneida drilled 3 diamond drill holes (1560 feet). Target was porphyry Cu-Mo mineralization. Discovered new zone on intense hydrothermal alteration (Assessment Report 8795).
- 1981 - G. Rayner completed detailed mapping around the Bengal Shaft area. Several old trenches elsewhere on the property were re-explored using a backhoe (Rayner, 1981).
- 1982 - Oneida Resources amalgamated with three other companies to form New Frontier Petroleum.
- 1983 - 200 feet of backhoe trenching was done near the Bengal shaft and about 100 feet of trenching was done about 1.5 km north of this to test copper staining exposed by a recent logging road. New Frontier Petroleum went into receivership, giving the Receiver an interest in the property. The remaining interest was transferred to a subsidiary of New Frontier, Bulkley Silver Resources.
- 1984 - H. Shear prepared a compilation of data on the Tam O'Shanter property for Bulkley Silver Resources (Shear, 1984).
- 1984-85- Geological mapping and interpretation was done in the Tam O'Shanter area for Kettle River Resources Ltd. by J. Fyles (Fyles, 1984-85).

- 1985-87- Bulkley Silver Resources merged to form Houston Metals. Houston Metals was rolled back to form Pacific Houston.
- 1987 - The property was examined by Echo Bay Mines and BP Selco. The 1979 drill core was relogged and a brief report was prepared (Fraser, 1987; Wong, 1987).
- 1988 - Pacific Houston had the present Tam grid established and an IP survey completed (Arnold, 1989a). Three diamond drill holes (2,645 feet) were drilled to test anomalies resulting from the above program (Arnold, 1989b).
- 1990 - Kettle River Resources Ltd. and Dentonia Resources Ltd. acquired the current Tam O'Shanter property by staking and purchasing the interest held by the Receiver and by Pacific Houston. The claims were optioned to Minnova Inc as part of a larger block of ground. An airborne magnetic and VLF/EM survey was done by Aerodat over the entire property. In the Tam O'Shanter area, the 1988 grid was re-established. Geological mapping, ground geophysics (mag & VLF/Em), and rock and soil sampling were done over the grid area (Lee, 1990).
- 1991 - Minnova continued to work on the property. The 1988 grid was expanded (The Tam 91 grid) with an additional 25.9 line kilometres established. Soil and rock sampling was done over the grid, and geological mapping was done. IP and magnetometry was run over a portion of the grid, and 20 diamond drill holes were completed to test soil and geophysical targets. The Wild Rose property adjacent to the Tam O'Shanter property was optioned and grid work was done over a portion of this property as well (Clayton, 1992).
- 1992 - Minnova established the Wild Rose grid over their main area of interest, completed detailed mapping over the grid, and drilled an additional 19 diamond drill holes on the property. Several drill holes were also done on the adjoining Wild Rose property. The options were dropped on both properties early in 1993 (Heberlein, 1993, Heberlein and McDowell, 1992).
- 1995 - Kettle River Resources completed a compilation of previous work, 1732 metres of NQ drilling in 10 hole to test the Wild Rose Fault plus detailed mapping in the Wild Rose area (Caron, 1995, Caron, 1996).
- 1997 - Echo Bay optioned all of Kettle River Resources Greenwood area claims, including the Tam O'Shanter property. The soil and rock sampling program described in this report was completed.

2.4 Summary of Work Done, August, 1997

A detailed soil and rock sampling grid was established during the period August 15 - 27th, 1997. A total 1.72 km of line were established, 90 soil samples, 1 silt sample and 10 rock samples collected. Samples were delivered to Custom Analytical Services of Republic, Washington for preparation and analysis. Field work was done by Tom Johnson of Echo Bay and Nicholas Braam of Kettle River Resources, under the supervision of Linda Caron of Kettle River Resources. A total of 2 days was spent in the field to complete the work.

3.0 GEOLOGY AND STRUCTURE

The Greenwood area has been mapped on a regional basis by Fyles (1990), and prior to this, by Little (1983) and Church (1986). Fyles' mapping shows the pre-Tertiary rocks form a series of thrust or detachment slices, which lie above a basement high grade metamorphic complex. A total of at least five thrust slices are recognised, all dipping gently to the north, and marked in many places by bodies of serpentine. Fyles' interprets these serpentinite bodies as representing part of a disrupted ophiolite suite, belonging to the Knob Hill Group of late Paleozoic age. Commonly, these serpentinite bodies have undergone Fe-carbonate alteration to listwanite, as a result of the thrusting event.

The oldest rocks in the camp belong to the late Paleozoic Knob Hill Group of dominantly volcanic affinity, and consist mainly of chert, greenstone and related intrusives, and serpentine. Unconformably overlying these rocks are sediments and lesser volcanics (largely argillite, siltstone, limestone and andesite) of the late Paleozoic Attwood Group. In some cases evidence for thrusting is seen by the older Knob Hill Group rocks resting over the younger Attwood Group rocks. Rocks of the Knob Hill and Attwood Groups are unconformably overlain by the Triassic Brooklyn Formation, represented largely by limestone, clastic sediments and volcanics and pyroclastics. The historically important skarn deposits in the Greenwood area (i.e. Phoenix, Motherlode-Greyhound) are hosted within the Triassic rocks.

Three separate intrusive events are known regionally to cut the above sequence, the probable Jurassic aged Lexington porphyry, and the Cretaceous Nelson intrusives, and the Eocene Coryell dykes and stocks. Tertiary sediments and volcanics unconformably overlie the older rocks. The distribution of these Tertiary rocks is largely controlled by series of north-south trending faults which form the Toroda Creek graben in the western portion of the map area, and the Republic graben in the east.

The Tam O'Shanter property is located at the eastern boundary of the Toroda Creek graben. A large area of mixed chert, greenstone and related diorite intrusives of the Knob Hill Group occurs in the eastern portion of the property. These rocks are separated from underlying sediments and conglomerate which may belong to the (younger) Attwood Group by a major northwest trending, moderate northeast dipping (thrust) fault (the Wild Rose Fault). A 1-3 metre wide gold bearing quartz vein occurs along the Wild Rose Fault, with grades up to 20.6 g/t Au over 1.2 metres. Intense alteration of Tertiary dykes along the fault zone is evidence of very late stage alteration event, although an earlier higher temperature event may be responsible for at least some of the gold. A second, roughly parallel thrust fault, or splay of the Wild Rose fault system, may be situated to the north of the Wild Rose fault, as indicated by exposures and drill intersections of ultramafic rocks. Further mapping is needed to confirm this.

Intrusive activity on the property is much more complex than previous workers have described. In the area of drilling, the earliest intrusive is the Knob Hill Group diorite. Ultramafic rocks are seen cutting Knob Hill rocks, but their relationship to other intrusives is unknown. Next in the sequence of intrusives is the Jurassic?/Cretaceous? aged Golden Fleece quartz diorite, which is typically strongly altered and named for the type locality at the Golden Fleece workings. Contact areas of the Golden Fleece intrusive with Knob Hill group rocks seems to be an important control for gold mineralization. The Golden Fleece intrusive is cut by relatively fresh "B-phase" dykes and stocks of probable Cretaceous Nelson affinity. Three distinct Tertiary aged dykes cut earlier intrusives, including a dark gabbroic dyke, which may be related to olivine basalt flows seen on surface, and a

coarse quartz-eye dyke both of which are unknown elsewhere in the camp, as well as the typical feldspar (+/- biotite) porphyry and syenite dykes which are common throughout the area. In the northern portion of the property, the Paleozoic rocks are intruded by a fine to medium grained diorite of the Cretaceous Nelson Group. Low grade copper mineralization is known at a number of locations within and near the contacts of this intrusion (ie. the Tam O'Shanter, Buckhorn and Iva Lenore showings). The relationship of this intrusive to the "B-phase" unit to the south is unknown at this time.

A moderate west dipping, north-south trending Tertiary fault (the Deadwood Fault) forms the eastern margin the Toroda Creek graben and separates the older rocks from the Tertiary lavas to the west. A large area of epithermal alteration (silica flooding, hydrothermal(?) brecciation and widespread argillic alteration) occurs in the Tertiary sediments adjacent to this structure (the Bengal Zone and it's southern extension - the "Sinter" zone). Epithermal alteration (silicification and chalcedonic veining) also occurs to the east in the older rocks, with elevated gold values to 2 g/t Au.

Widespread silicification, argillic and phyllic alteration with elevated gold values (ie. 0.9 g/t over 63 metres) occurs in the Knob Hill rocks and older intrusive rocks adjacent to the Wild Rose Fault.

4.0 GEOCHEMISTRY

A detailed soil grid was established to cover the southern portion of the Bengal zone (the so called "Sinter" zone), and the projected intersection of the Wild Rose Fault with the later Deadwood Fault, which is at least spatially associated with the epithermal style alteration. The OE baseline on the Tam 91 grid was re-established for control, and east-west cross lines placed at 30 metre intervals, as shown on Figure 3. Each line was 220 metres in length, with soil samples collected at 20 metre intervals on the lines. The north-south trending OE baseline was also sampled, at 15 metre sample spacing. A total of 90 soil samples were collected. Ten rock samples were collected from old trenches at the "Sinter" zone. One stream sediment sample was also collected. Sample locations are shown on Figure 4.

Samples were delivered to Custom Analytical Services in Republic, Washington, for preparation and analysis. Analytical results are contained in Appendix 1.

Most soil samples contained gold at below the detection limit of 10 ppb Au, as did the single silt sample collected. Only one soil sample was significantly anomalous, at 86 ppb Au, however this is a single station anomaly and as such, not very encouraging. The rock samples collected from the "Sinter" zone trenches were slightly anomalous in gold, to 71 ppb Au.

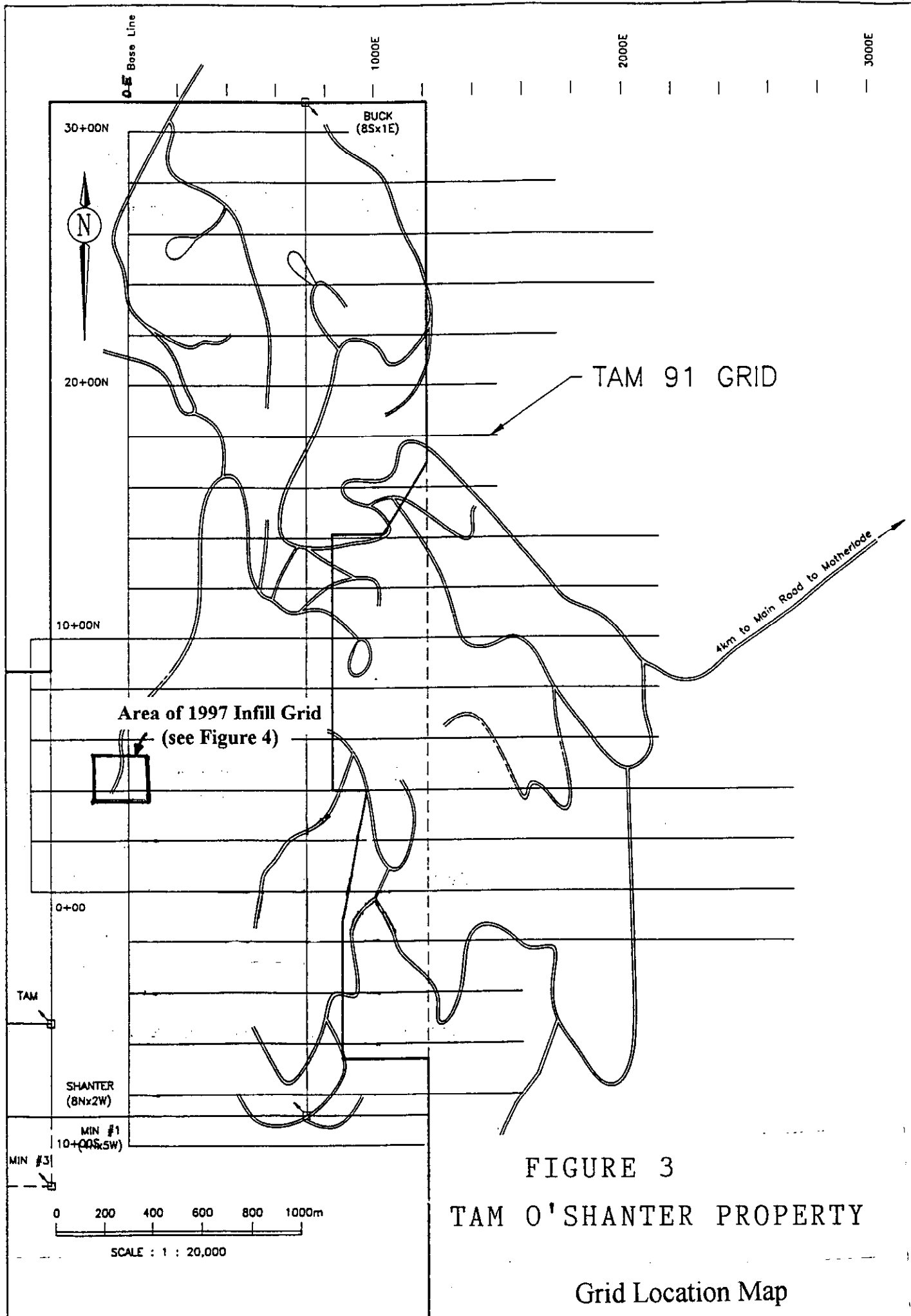
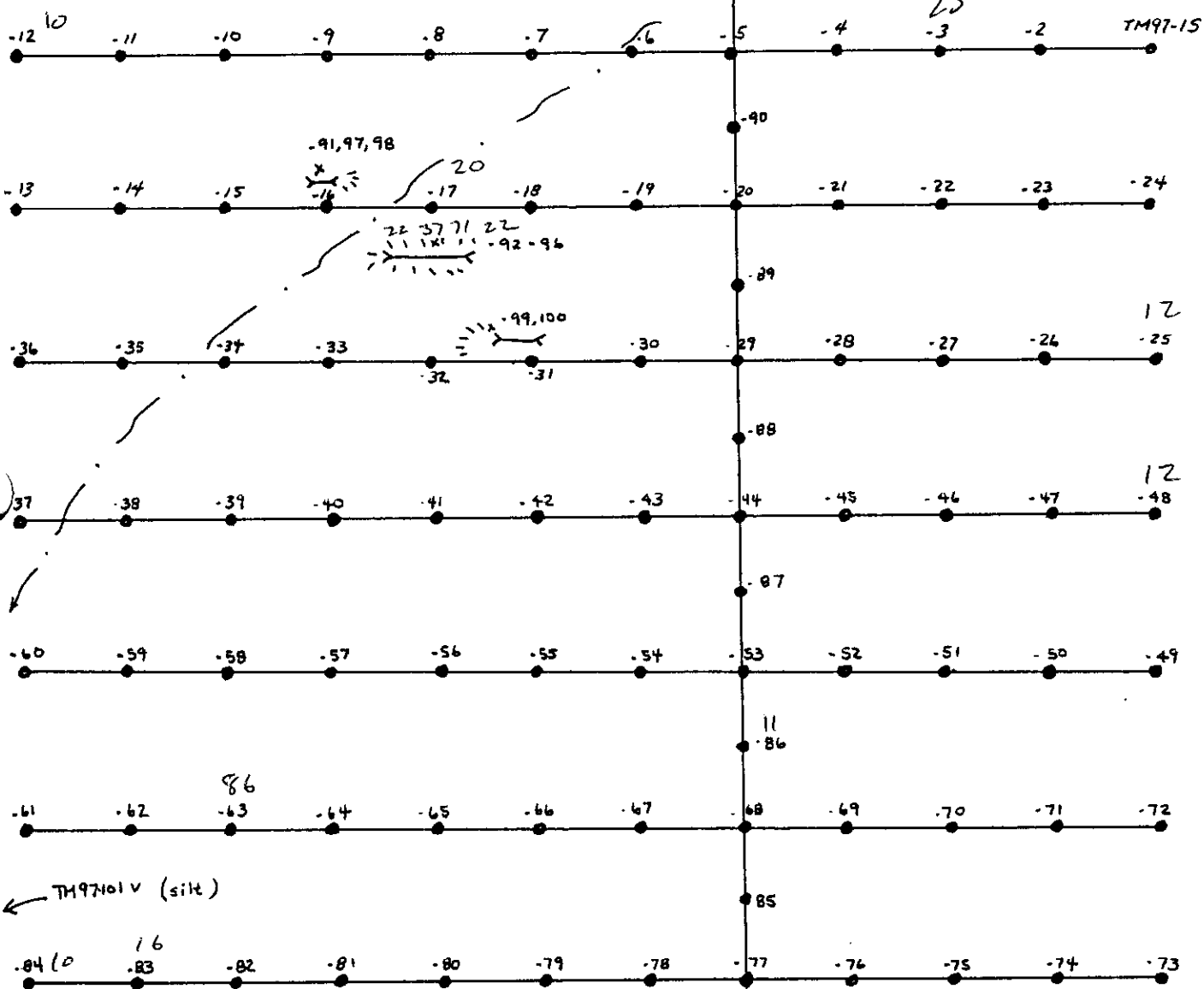


FIGURE 3
 TAM O'SHANTER PROPERTY
 Grid Location Map

OE

6 N



- Soil Sample
- x Rock Sample
- ← Silt Sample

ppb Au
 <10 not shown

FIGURE 4

Tam O'Shanter Property
 SAMPLE LOCATION MAP

Scale 1:1250

5.0 RECOMMENDATIONS

Detailed mapping is recommended to identify areas of favourable geology north of the Wild Rose Fault, in the vicinity of the suspected parallel thrust fault, where little work has been done. In particular, the area of the Golden Fleece workings needs detailed mapping and sampling. The epithermal zone parallel to and east of the Bengal zone required further mapping to identify the extent and controls of alteration and mineralization. The intersection of the Wild Rose structure with the Deadwood Fault remains untested by drilling, however the sampling program described by this report does not add to the justification for testing this target.

6.0 REFERENCES

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APPENDIX 1

Analytical Results - Soil, Rock and Silt Samples

CUSTOM ANALYTICAL SERVICES
P.O. Box 722 * 101-4 Hwy 21 So.
Republic, WA 99166
() 775-3885

ECHO BAY MINERALS CO. (1354)
921 FISH HATCHERY ROAD
REPUBLIC, WA 99166
ATTN:TOM JOHNSON
ATTN:DAN HUSSEY

August 28, 1997 R71606

TEST FOR: Au
METHOD: FA+AA
USED: -
RESULTS IN: ppb

TM97:1S	<10
TM97:2S	<10
TM97:3S	23
TM97:4S	<10
TM97:5S	<10
TM97:6S	<10
TM97:7S	<10
TM97:8S	<10
TM97:9S	<10
TM97:10S	<10
TM97:11S	<10
TM97:12S	10
TM97:13S	<10
TM97:14S	<10
TM97:15S	<10
TM97:16S	<10
TM97:17S	28
TM97:18S	<10
TM97:19S	<10
TM97:20S	<10
TM97:21S	<10
TM97:22S	<10
TM97:23S	<10
TM97:24S	<10
TM97:25S	12
TM97:26S	<10
TM97:27S	<10
TM97:28S	<10
TM97:29S	<10
TM97:30S	<10
TM97:31S	<10
TM97:32S	<10
TM97:33S	<10
TM97:34S	<10
TM97:35S	<10
TM97:36S	<10
TM97:37S	<10
TM97:38S	<10
TM97:39S	<10
TM97:40S	<10
TM97:41S	<10
TM97:42S	<10
TM97:43S	<10
TM97:44S	<10
TM97:45S	<10
TM97:46S	<10
TM97:47S	<10
TM97:48S	12
TM97:49S	<10
TM97:50S	<10

CUSTOM ANALYTICAL
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Republic, WA 99166
(509) 775-3885

921 FISH HATCHERY ROAD
REPUBLIC, WA 99166
ATTN:TOM JOHNSON
ATTN:DAN HUSSEY

ANALYSE 28, 1997	R71606
FOR:	Au
METHOD:	FA+AA
USED:	--
RESULTS IN:	ppb
TM97:51S	<10
TM97:52S	<10
TM97:53S	<10
TM97:54S	<10
TM97:55S	<10
TM97:56S	<10
TM97:57S	<10
TM97:58S	<10
TM97:59S	<10
TM97:60S	<10
TM97:61S	<10
TM97:62S	<10
TM97:63S	85
TM97:64S	<10
TM97:65S	<10
TM97:66S	<10
TM97:67S	<10
TM97:68S	<10
TM97:69S	<10
TM97:70S	<10
TM97:71S	<10
TM97:72S	<10
TM97:73S	<10
TM97:74S	<10
TM97:75S	<10
TM97:76S	<10
TM97:77S	<10
TM97:78S	<10
TM97:79S	<10
TM97:80S	<10
TM97:81S	<10
TM97:82S	<10
TM97:83S	16
TM97:84S	10
TM97:85S	<10
TM97:86S	11
TM97:87S	<10
TM97:88S	<10
TM97:89S	<10
TM97:90S	<10
TM97:91R	N/S
TM97:92R	22
TM97:93R	37
TM97:94R	71
TM97:95R	22
TM97:96R	<10
TM97:97R	<10
TM97:98R	<10
TM97:99R	<10
TM97:100R	<10

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ECHO BAY MINERALS CO. (1354)
921 FISH HATCHERY ROAD
REPUBLIC, WA 99166
ATTN:TOM JOHNSON
ATTN:DAN HUSSEY

Aug 28, 1997 R71606

TEST FOR: Au

METHOD: FA+AA

USED: -

RESULTS IN: ppb

TM97:102R <10

TM97:103R <10

TM97:104R <10

TM97:105R <10

TH97:101V <10

TM97:20SDUP. <10

TM97:47SDUP. <10

TM97:74SRESPLIT <10

TM97:102RDUP. <10

TH97:101VRESPLIT <10

JOHNSON:BLANK <10

JOHNSON:BLANK <10

CHARGES

TOTAL CHARGES \$0.00

Chris Kitchel
James P. Gubler, Manager

APPENDIX 2

Cost Statement

COST STATEMENT

Labour:

L. Caron	1 day @ \$250/day	250.00
N. Braam	2 days @ \$100/day	200.00
T. Johnson	2 days @ \$200/day	400.00
		<u>\$ 850.00</u>

Geochemical Analyses

(Au geochem) Custom Analytical, Republic WA	
101 samples @ \$16.04 (including shipping)	\$ 1,620.00
	<u>\$ 1,620.00</u>

Supplies

General Field Supplies (bags, flagging, etc)	\$ 30.00
Drafting and office supplies	20.00
	<u>\$ 50.00</u>

Transportation

Vehicle rental 2 days @ \$50/day	\$ 100.00
	<u>\$ 100.00</u>

	<u>=====</u>
TOTAL:	\$ 2,620.00

APPENDIX 3

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Linda J. Caron, certify that:

1. I am an exploration geologist residing at Bubar Road (RR #2), Rock Creek, B.C.
2. I obtained a B.A.Sc. in Geological Engineering (Honours) in the Mineral Exploration Option, from the University of British Columbia (1985).
3. I graduated with an M.Sc. in Geology and Geophysics from the University of Calgary (1988).
4. I have practised my profession since 1987 and have worked in the mineral exploration industry since 1980.
5. I am a member in good standing with the Association of Professional Engineers and Geoscientists of B.C. with professional engineer status.
6. I am employed by Kettle River Resources Ltd. as an exploration geologist.

L. Caron Sept 4/97

Linda Caron