

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

DATE REPORTED
DEC 04 1996

ASSESSMENT REPORT

on

1996 ROCK SAMPLING PROGRAM

Attwood Property
and
Bombini Option

NTS 82E/2 E

Lat: 49° 03' 30" N
Long: 118° 40' 00" W

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,665

FILMED

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October, 1996

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1.0 SUMMARY

The Attwood property is located about 4 kilometres east-southeast of Greenwood, B.C., on the north and west facing slopes of Mt. Attwood. Access to the claims is good, with numerous two and four wheel drive roads. The claims are underlain by Permian Attwood Group rocks, argillite, phyllite, limestone and volcanics, sandwiched between the underlying Mt. Attwood thrust fault and the overlying Lind Creek thrust. Serpentine is common along these thrusts. A number of different probable Cretaceous intrusions cut the older rocks.

Two areas of VMS type mineralization occur on the property. In the west, massive to finely laminated and disseminated pyrite and pyrrhotite occurs in argillite and hornfels, and at the contact of these rocks with overlying limestone, at the Croesus and Johannesburg showings. In the Croesus workings, the sulfide horizon can exceed 2 metres in thickness, and is exposed over a strike length of in excess of 100 metres. Copper, arsenic, bismuth, silver, and to a lesser extent, tungsten and gold, may be anomalous in samples of sulfide mineralization. Approximately 4 kilometres east, and on what may be the same stratigraphic horizon, massive sulfides (sphalerite, galena, pyrrhotite and pyrite) are exposed at the Sunnyside workings. Historical production from these workings was in the order of 50 tons, at an average grade of 0.24 opt Au, 52 opt Au, 9% Pb and 1% Zn. Again, sulfide material is anomalous in As, Bi, Cu, W, Ag and Au, plus Zn and Pb.

Detailed heavy mineral drainage sampling is recommended to test the claim area for the potential of gold enriched zones along the VMS horizon. Follow-up contour soil sampling is recommended in favourable areas, and an airborne mag-EM survey is suggested to identify the VMS horizon and assist in defining positions of thrust faults.

2.0 INTRODUCTION

2.1 Location, Access and Terrain

Work described in this report was done on the Attwood property, located about 4 kilometres east-southeast of Greenwood, B.C. (see Figure 1). Access to the property is east from Greenwood on Lind Creek road, then south on various logging, mining and fire access roads. There is good road access to most parts of the claim block.

The claims are situated on the north and west facing slopes of Mount Attwood. Elevation ranges from about 3,000 feet in the Lind Creek valley in the northwest portion of the property, to about 5,000 feet near the summit of Mount Attwood in the southeast. The terrain is moderate to steep and vegetation is highly variable across the property. Much of this area was burned in the Attwood Fire in 1973 and locally, regeneration since the fire has been in the form of thick to virtually impassible alder forest (the Fanny Joe Basin area). To the west and at higher elevations, the forest is more open, consisting of pine, larch and fir, with little underbrush. In the Lind Creek valley, dense cedar forest is common.

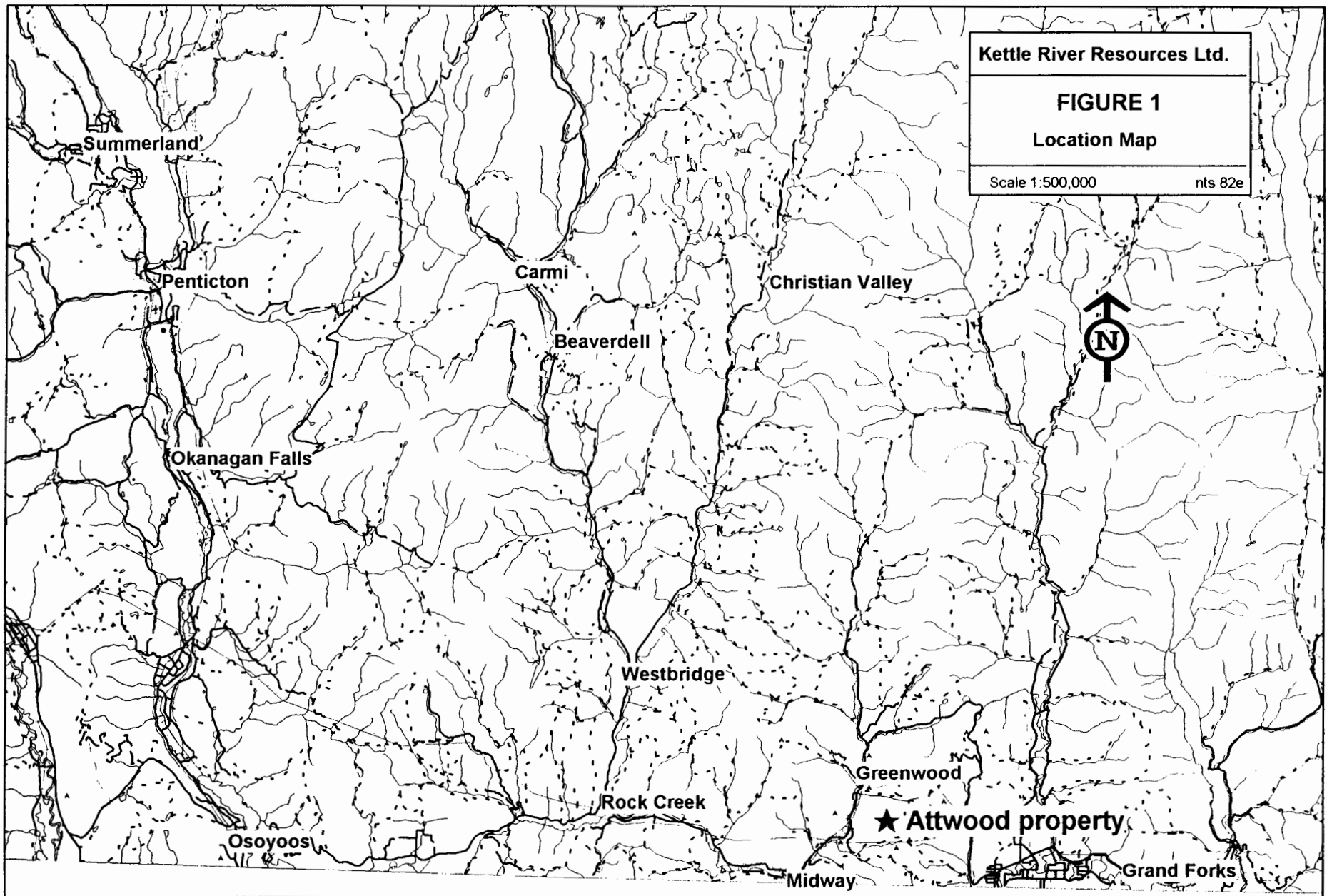
The climate is generally quite dry, with hot summers and little rainfall. Snowfall is minimal, generally less than 1 metre. Water is available for drilling from a number of creeks on the property, as well as from a dugout near the "heliport" at the Sunnyside showings.

2.2 Property and Ownership

The Attwood Group consists of 13 mineral claims (a total of 69 units), as shown in Figure 2 and summarized below. The Attwood and Att-1 to Att-6 claims are owned 100% by Kettle River Resources Ltd. while the remaining claims are held under an option agreement to Kettle River Resources Ltd. from Samuel Bombini.

<u>Claim Name</u>	<u>Record #</u>	<u># of units</u>	<u>Expiry Date</u>
Attwood	339008	20	Aug 16, 1998
Att-1	346206	20	May 24, 1998
Att-2	346207	10	May 24, 1998
Att-3	346208	1	May 24, 1998
Att-4	346209	1	May 24, 1998
Att-5	346210	1	May 24, 1998
Att-6	346211	10	May 28, 1998
Croesus	214377	1	Jan 21, 1999
Johannesberg	214378	1	Jan 21, 1999
Tanglefoot	214379	1	Jan 21, 1999
Eholt	214380	1	Jan 21, 1999
Fab 2	346222	1	Jun 02, 1999
Cap 1	342435	1	Nov 30, 1998

* Expiry dates are after acceptance of this report.



Kettle River Resources Ltd.

FIGURE 1

Location Map

Scale 1:500,000

nts 82e



★ **Attwood property**

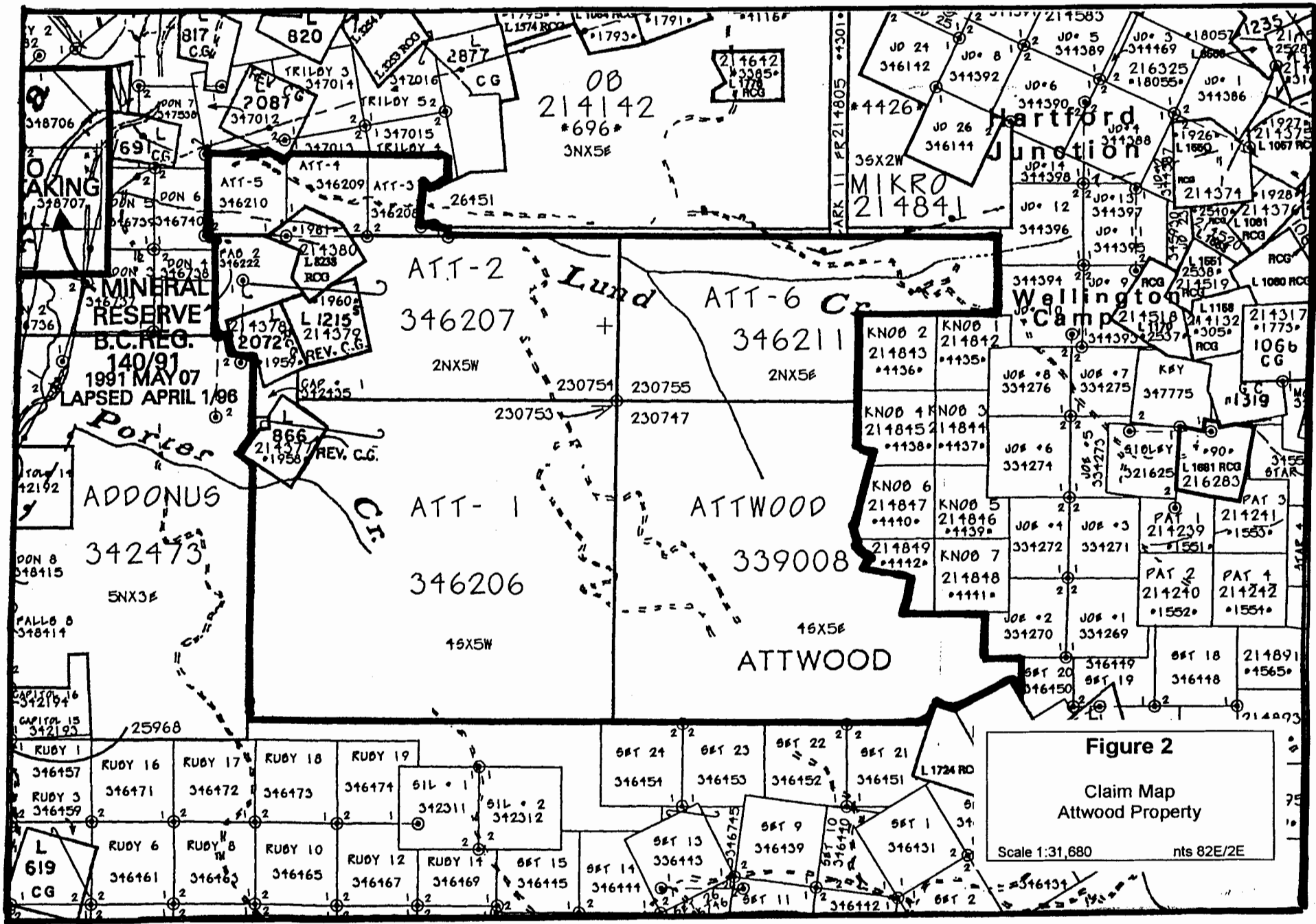


Figure 2
 Claim Map
 Attwood Property
 Scale 1:31,680 nts 82E/2E

2.3 History

The Attwood property includes a number of historical workings on lapsed or reverted crown grants, including the Sunnyside, Rattler and Fanny Joe in the east and the Croesus, Johannesburg, Tanglefoot, Eholt in the west. A number of other lapsed historical claims and crown grants occur on the property and the reader is referred to the historical claim map of the Greenwood Mining District for locations of these properties (which include among others the Evening Star, Morning Star, Lexicon and Lead King). A brief summary of the history of the property is given below.

- 1894: The Lead King and Johannesburg claims were staked. A 9 foot vein of silver bearing rock with 40% lead is reported on the Lead King, exposed for 1000 feet (Ministry of Mines Annual Report).
- 1900-4: Reference made to the Rattler, Johannesburg, Lead King, Sunnyside (Ministry of Mines Annual Reports).
- 1908: Reference is made to the Fanny Joe (Ministry of Mines Annual Report).
- 1911: First reference is made to the Croesus and Lexicon in the Ministry of Mines Annual Reports.
- 1913: Reference is made to the Sunnyside showing, which is said to be similar to the Riverside in the Rock Creek area (Ministry of Mines Annual Report). Production of 30 tons of ore is reported from the Sunnyside. A total production of 50 tons (at an average grade of 0.24 opt Au, 52 opt Ag, 9% Pb and 1% Zn) is reported in the Minfile for the Sunnyside, from the years 1913, 1918-20, and 1934. Note that a second Sunnyside (L1646) occurs in the Jewel Creek area, which has caused some confusion in the historical reports.
- 1933: A 10' deep shaft is reported on the Fanny Joe, on a 4" quartz vein containing pyrite and galena, which strikes northerly and dips steeply east. A considerable amount of manganese is reported. (Ministry of Mines Annual Report). Similar quartz veins are reported in workings on the Rattler.
- 1950: W.E. McArthur shipped 8 tons of lead ore to Trail from the Lead King claims, which returned 22 oz Ag, 1143 lbs Pb and 1250 lbs Zn (Ministry of Mines Annual Report 1950).
- 1968: Ortega Minerals completed a soil sampling program in the Croesus - Johannesburg area at 200 foot intervals on 400 foot spaced lines, analysed for copper only. A number of areas of + 100 ppm Cu were detected (Hemsworth, 1968).
- 1969: Ortega Minerals completed IP and mag surveys over in the Croesus - Johannesburg area. Eight anomalies were identified and a zone encompassing 5 of these anomalies was defined, approximately 1.5 km in length, striking northwest and open in both directions along strike (Baird, 1969a and 1969b).
- 1973: A soil survey was completed over the Att claims (now lapsed - the claims covered a portion of the east side of the current Attwood property), by Granby. Analysis was for Cu and Zn only. Several strong Zn anomalies occurred in the southwest part of the grid (in the vicinity of the Sunnyside claim).
- 1976: Silver Falls Resources did a very minor program of geological mapping, soil and rock sampling (Cu, Pb, Au analyses) and ground mag over a limited area on the Sunnyside and Fanny Joe claims. Anomalous gold values to 2 g/t were obtained from rock samples collected at old workings and a number of anomalous gold soils (to 120 ppb) occurred (McLeod, 1976).
- 1979: An insignificant program of geological mapping, ground mag and VLF was completed on the Okum property (in the vicinity of the Rattler - northcentral part of Attwood claim) (McLeod, 1979).

- 1980: Reconnaissance soil and silt sampling and preliminary geological mapping was done on the Okum and Rattler claims, for March Resources. Several anomalous gold values were detected, with values to + 200 ppb Au. (Madeisky and Symonds, 1980).
- 1983: Ashnola Mining Co. completed minor rock sampling in the Croesus - Johannesburg area for precious metal content (Blanchflower, 1983).
- 1995: Kettle River Resources acquired the Attwood claim (including the lapsed Sunnyside, Fanny Joe and Rattler crown grants) by staking.
- 1996: Kettle River Resources staked the Att claims, and optioned the Croesus-Johannesberg property from Samuel Bombini. The geological mapping and rock sampling program described in this report was completed. Following this program, heavy mineral drainage samples were collected, and contour soil sampling done over a portion of the property. This work is not described in this report.

2.4 Summary of Work Done, July, 1996

Geological mapping and rock sampling was done by B. Kyba of Falkland, B.C., under contract to Kettle River Resources Ltd., with assistance from K. Kyba. One hundred and fifty-nine rock samples were collected and sent to Min-En Labs in Vancouver for preparation and analysis. Analysis was for 31 element ICP plus gold by 30 gram Fire Geochem, AA finish. Ore grade assay was done for Cu, Pb, Zn, Ag and Au where required. Field work was completed during the period July 1 - 30, 1996, under the supervision of Linda Caron.

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 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. Overlying these rocks are sediments and volcanics (largely argillite, siltstone, limestone and andesite) of the late Paleozoic Attwood Group. In many 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 pyroclastics. The historically important skarn deposits in the Greenwood area (i.e. Phoenix, Oro Denoro, Motherlode-Greyhound) area hosted within the Triassic rocks.

Three separate intrusive events are known regionally to cut the above sequence, the probable Jurassic aged Lexington porphyry, the Cretaceous Nelson intrusives, and the Eocene Coryell pulaskite dykes and stocks. Tertiary sediments and volcanics unconformably overlie the older rocks with the distribution of these Tertiary rocks 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 Attwood property is located on the north and west facing slopes of Mount Attwood, within Fyles' fourth thrust slice. A wedge of Attwood Group rocks is sandwiched between the Mt. Attwood thrust fault below, and the Lind Creek thrust fault above, both which dip gently to the north. Both thrust faults are defined by exposures of serpentine. Fyles' mapping shows a basal volcanic unit, overlain by limestone (locally cherty), which is in turn overlain by a sedimentary package of siltstone, phyllite, and conglomerate. He describes the Attwood rocks as being tightly folded, with axial planes dipping moderately north, and on axes with low plunge to the northwest. The regional geology of the property is shown in Figure 3, with more detail of the western part of the property shown in Figure 4.

At the Croesus showings, massive, finely laminated pyrrhotite with pyrite and minor chalcopyrite occurs in a steeply dipping horizon up to 2 metres in width, at the contact of phyllite and limestone. Locally the massive sulfide horizon has well developed fragmental textures and clear glassy quartz eyes, to 4 mm in size. Figure 5 is a detailed geology map of the Croesus area.

To the northwest at the Johannesburg workings, finely lamellar, and locally massive, pyrrhotite, again with good vitreous quartz eyes within, occurs in a fine grained hornfels. A late granodiorite intrusive with minor associated quartz veining along margins, intrudes the older rocks in the area of the Croesus and Johannesburg showings. The intrusive can become quite strongly bleached and altered, with pyrite-pyrrhotite stockworking veinlets. A number of quartz veins, with galena, sphalerite, pyrite and chalcopyrite are known in the western portion of the property (on the Tanglefoot, Johannesburg, etc), which may be related to these intrusives. Figure 6 shows the geology of the Johannesburg and Tanglefoot areas in more detail.

In the eastern portion of the property, stratabound and structurally controlled sphalerite, pyrite, galena and pyrrhotite occur at the contact of siliceous, pyritic tuff and limestone (the Sunnyside showings). A number of quartz veins are known in the eastern portion of the property, in the Rattler and Fanny Joe areas. A further area of interest is a zone of widespread fracturing, with fine crystalline pyrite, in argillite, limestone and conglomerate on Attwood Ridge, about equidistant between the Sunnyside and Croesus showings. Mapping and sampling completed during this program was, with the exception of the Croesus-Johannesberg area, very much of a regional nature. It is expected that other areas of interest will be defined by more detailed work.

4.0 ROCK GEOCHEMISTRY

One hundred and fifty-nine rock samples were collected from old workings and outcrops on the Attwood property, as shown on Figure 7. The majority of the samples were collected from the Bombini Option (Croesus-Johannesberg area), as shown on Figure 8. Detailed sample location maps for the Croesus workings and Johannesberg-Tanglefoot areas are included as Figures 9 and 6 respectively. Samples were shipped to Min-En Labs in Vancouver for preparation and analysis (31 element ICP plus gold by 30 gram Fire Geochem, AA finish). Assay was done for samples returning greater than 1000 ppb Au, 100 ppm Ag, or 5000 ppm Cu, Pb or Zn. Analytical results are included in Appendix 1. Rock sample descriptions are contained in Appendix 2. Detail sample location sketches for the Sunnyside and Rattler areas are also contained in Appendix 2. Results are discussed below, by area.

Attwood Property -excluding Bombini option (Samples 481701-22, 728-33, 737-39, 743-46, 751-66):

Fifty-two rock samples were collected from the Attwood property, excluding the Bombini option and the showing areas detailed below. Sample locations are shown on Figure 7. Samples of serpentine collected along fault traces are anomalous in arsenic and nickel, with weakly elevated gold values. No other rocks collected were significantly anomalous in any elements.

Sunnyside (Samples 481734-36, 481740-42, 481767-69)

Nine samples were collected from outcrop and old workings in the Sunnyside and Sunnyside South areas, where massive pyrrhotite, pyrite, sphalerite + lesser galena occurs at or near the contact of limestone and pyritic tuffaceous rocks. Detailed sample location maps are included in Appendix 2, along with sample descriptions. Figure 7 gives the general locations of the samples. Anomalous values to 7.4% Zn, 1.1% Pb, 54.5 ppm Ag and 73 ppb Au were obtained from massive sulfide material at the Sunnyside showing. Arsenic, tungsten, copper and bismuth values are also elevated in samples collected.

Rattler (Samples 481723-27)

Five samples were collected from the vicinity of the old Rattler crown grant, as shown on Figure 7 and on the sketch map included in Appendix 2. Material sampled was pyritic fault gouge material and altered intrusive and tuff with disseminated pyrite. These samples were not significantly elevated in any elements.

Bombini Option (Samples 481551-634, 651-660):

A total of 93 rock samples were collected from the Bombini Option, as shown in Figure 8. Forty of these samples were collected from the Croesus workings, and 28 from the Johannesberg-Tanglefoot area, as detailed below. The remainder of the samples (25) were taken from outcrops or workings outside these two main areas. Arsenic values are typically higher in samples of marble and limestone, to 188 ppm (Sample 481603). Ba, Zn and Au values may be elevated from samples of pyritic argillite, to 223 ppm Ba, 209 ppm Zn and 92 ppb Au, respectively.

Croesus Area (Samples 481551-583, 481601, 481621-24, 481653-54)

Figure 9 is a detailed sample location map of the Croesus workings area. Chip samples were collected across exposures of massive sulfide, along the length of the mineralized horizon. Samples were also collected from rocks in the hanging wall and footwall of the sulfide zone, and from late altered intrusives and quartz veins cross-cutting the sulfide horizon. Ag, As, Bi and Cu values are anomalous in samples collected. The maximum silver value is 13.7 ppm Ag (with 1506 ppm Cu) from a shear zone at the portal to the open cut (Sample 481572), while copper values reach a maximum of 0.795% over a 0.5

metre sample across the massive sulfide horizon exposed in the open cut. In this sample (Sample 481577) Ag, As, Zn and Pb values are very low (0.1, 1, 1 and 1 ppm respectively), however Bi is anomalous at 51 ppm. A number of other samples of +0.3% Cu were collected from the area, from massive sulfide and quartz vein material. In samples collected from the Croesus workings, gold values reach a maximum of 72 ppb in altered, mineralized intrusive in the open cut (Sample 481574). Tungsten may also be elevated in vein and massive sulfide material, to 49 ppm W.

Johannesberg-Tanglefoot Area (Samples 481584, 586-600, 625-27, 629-31, 634, 651-52, 658-60)

Figure 6 details the locations of the 28 samples collected from the Johannesberg-Tanglefoot area. Pyrite and pyrrhotite bearing hornfels may be anomalous in As (to 244 ppm in Sample 481625) and in copper (to 1803 ppm in Sample 481629), while banded pyrite and pyrrhotite in argillite returned 145 ppb Au from one sample (Sample 481627).

In summary, a large number of rock samples were collected from the Attwood property. Two areas of VMS type mineralization are known on the property, the Sunnyside in the east, and the Croesus-Johannesberg in the west. Samples of this type of material may be anomalous in Cu, Zn, Pb, As, Bi, W, Ag and Au. Showings in the east are typically zinc rich and copper poor, compared to those in the west. Gold values are sub-economic in all cases.

6.0 RECOMMENDATIONS

Geological mapping has identified a VMS horizon within Permian Attwood Group rocks, with several occurrences of typical VMS type mineralization. No areas of economic or strongly anomalous precious metal content have been identified. Detailed heavy mineral drainage sampling is recommended to determine whether a gold enriched portion of the VMS horizon could exist. Contour soil sampling is also recommended to test projected favourable areas with heavy cover. An airborne geophysical survey (mag/EM) would be useful in identifying areas of mineralization for follow-up.

7.0 REFERENCES

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APPENDIX 1

Analytical Results - Rock Samples

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FILE NO: 6V-0357-RJ1+2+3

DATE: 96/07/12

* rock * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	HG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SM PPM	SR PPM	TH PPM	Tl %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
481574	1.3	1.04	1	34	.1	1	.36	.1	6	37	250	3.10	1	.09	10	.65	225	10	.03	8	610	1	1	2	19	1	.01	1	22.6	1	19	72
481575	.7	.99	1	31	.1	1	.61	.1	5	38	338	2.55	1	.09	9	.62	275	8	.03	8	630	1	1	2	18	1	.01	1	15.4	1	19	8
481576	1.0	1.89	1	42	.1	1	.55	.1	10	36	562	7.03	1	.08	16	1.28	488	16	.03	16	610	1	1	5	13	1	.03	1	59.9	1	35	3
481577	.1	.43	1	1	.1	51	1.98	.1	79	26	7619	>15.00	1	.01	2	.48	379	45	.01	25	120	1	1	14	1	1	.01	1	32.8	1	1	15
481578	10.1	.20	1	5	.1	31	.14	.1	19	106	1916	5.62	1	.02	1	.10	74	144	.01	10	250	1	1	3	1	1	.01	1	7.4	49	5	60
481579	.1	1.26	1	24	.1	33	.37	.1	73	30	5014	>15.00	1	.07	10	.79	372	40	.01	24	380	1	1	12	1	1	.01	1	43.8	1	15	25
481580	.2	.14	231	14	.1	10	>15.00	.1	6	10	211	.82	23	.02	2	.21	381	5	.01	5	130	215	6	1	1	1	.01	1	7.5	3	18	4
481581	.1	.22	1	3	.1	4	4.77	.1	79	27	4563	>15.00	1	.02	1	.24	199	42	.01	22	40	1	1	13	1	1	.01	1	19.6	22	1	11
481582	.5	.82	1	26	.1	1	1.64	.1	5	50	207	2.84	1	.07	9	.50	147	10	.03	6	560	1	1	2	20	1	.01	1	10.3	15	16	15
481583	.1	.05	1	2	.1	7	11.53	.1	53	19	3772	>15.00	1	.01	1	.11	281	37	.01	20	40	1	1	12	10	1	.01	1	8.8	1	1	8
481584	.3	2.74	1	131	.1	1	.38	.1	17	52	87	5.29	1	.30	24	1.87	512	17	.03	27	910	1	1	4	22	1	.07	1	82.8	1	99	1
481585	.7	1.05	56	49	.1	1	.88	.1	5	38	26	2.05	1	.11	9	.75	422	9	.03	10	340	2	1	1	26	1	.01	1	11.2	1	58	4
481586	.1	.96	1	61	.1	1	.35	.1	7	95	233	4.91	1	.23	7	.59	355	35	.03	26	580	1	1	3	10	1	.07	1	254.7	6	39	1
481587	1.3	.79	1	30	.1	1	.89	.1	5	101	188	4.54	1	.11	8	.53	341	31	.01	18	2080	1	1	3	11	1	.05	1	237.0	7	32	3
481588	.6	1.91	1	43	.1	1	.52	.1	12	111	201	4.61	1	.17	15	1.40	410	28	.03	33	660	1	1	3	17	1	.05	1	87.3	2	74	3
481589	.4	1.35	1	33	.1	2	.58	.1	8	107	310	3.58	1	.10	10	.85	446	45	.03	58	710	1	1	3	17	1	.06	1	191.8	7	82	22
481590	1.7	.40	1	13	.1	1	3.20	.1	10	145	798	11.84	1	.09	2	.15	332	21	.01	17	>10000	1	1	7	63	1	.01	1	320.5	5	25	39
481591	2.0	.13	1	13	.1	1	1.42	.1	7	129	204	9.04	1	.08	2	.04	167	18	.01	12	7800	1	1	6	48	1	.01	1	279.9	5	8	51
481592	.1	.41	1	16	.1	1	1.72	.1	9	169	334	12.54	1	.09	1	.14	242	23	.01	17	7530	1	1	7	33	1	.02	1	456.2	8	9	41
481593	.1	.33	1	13	.1	1	1.24	.1	10	142	295	14.80	1	.10	1	.12	329	25	.01	19	8160	1	1	9	42	1	.01	1	374.9	3	8	31
481594	1.0	.49	1	23	.1	1	.23	.1	5	107	289	4.87	1	.07	5	.31	209	21	.02	20	1100	1	1	3	11	1	.02	1	173.2	6	28	7
481595	.1	.64	1	9	.1	1	.82	.1	6	144	288	5.46	1	.11	4	.44	349	18	.01	21	2450	1	1	4	10	1	.04	1	328.9	11	24	8
481596	.3	1.87	24	20	.1	1	.56	.1	14	185	306	5.10	1	.08	14	2.25	504	18	.02	47	790	1	1	4	12	1	.03	1	173.1	5	45	2
481597	.1	1.24	1	120	.1	1	6.71	.1	11	60	614	14.55	1	.50	6	.29	498	27	.06	18	>10000	1	1	9	84	1	.06	1	386.1	1	54	12
481598	.4	.67	1	43	.1	1	.38	.1	3	48	108	1.57	1	.12	4	.34	258	8	.03	8	660	36	1	1	16	1	.01	1	13.1	6	52	1
481599	.5	.65	18	36	.1	1	.56	.1	3	46	67	1.27	1	.12	5	.34	255	6	.03	7	550	39	1	1	17	1	.01	1	10.5	2	22	6
481600	.3	.65	1	35	.1	1	.97	.1	3	45	47	1.34	1	.09	5	.35	214	5	.03	7	490	14	1	1	24	1	.01	1	13.2	2	18	1
481621	.1	.53	1	133	.1	1	10.16	.1	10	35	1139	9.11	1	.02	1	.07	3994	16	.01	16	80	18	1	6	1	1	.01	1	76.7	1	12	4
481622	.1	.07	284	8	.1	5	>15.00	.1	2	7	19	.32	17	.01	1	.10	341	3	.01	3	100	14	4	1	1	1	.01	1	7.1	1	10	2
481623	.1	.10	207	8	.1	8	>15.00	.1	1	25	216	.29	8	.01	1	.06	312	2	.01	3	150	11	3	1	1	1	.01	1	7.5	2	18	3
481624	2.6	.34	1	7	.1	61	.26	.1	63	101	3545	5.83	1	.03	3	.22	112	14	.01	10	170	1	1	3	9	1	.01	1	7.2	1	11	13
481625	.5	2.84	244	158	.1	1	.62	.1	32	146	267	4.10	1	.38	18	3.71	436	22	.03	50	90	1	1	4	18	1	.11	1	201.6	1	64	7
481626	.1	.84	1	57	.1	1	4.87	.1	17	46	1096	10.66	1	.13	4	.74	627	21	.01	40	>10000	1	1	6	34	1	.02	1	97.2	1	22	26
481627	.1	1.58	1	4	.1	1	3.56	.1	14	96	910	14.42	1	.02	4	.65	909	45	.02	61	7530	1	1	9	27	1	.02	1	235.7	1	99	145
481628	.3	2.05	1	83	.1	1	.27	.1	8	30	62	3.78	1	.18	14	1.45	312	13	.01	15	900	1	1	3	12	1	.06	1	37.9	1	60	10
481629	1.4	.41	1	15	.1	1	6.56	.1	34	104	1803	13.74	1	.03	2	.25	632	35	.01	83	>10000	1	1	8	81	1	.01	1	270.9	1	52	29
481630	2.1	.28	1	5	.1	7	1.66	.1	7	92	983	4.05	1	.02	1	.12	304	49	.01	30	3250	7	1	3	11	1	.02	1	137.3	4	25	9
481631	1.3	.82	1	16	.1	4	1.11	.1	10	99	912	4.57	1	.05	5	.54	427	71	.01	70	1000	1	1	3	14	1	.05	1	226.7	5	44	8
481632	.2	.92	1	46	.1	1	.78	.1	18	32	149	3.92	1	.22	6	.69	956	15	.01	48	560	2	1	3	12	1	.01	1	25.6	1	41	92
481633	1.1	.49	1	43	.1	1	4.01	.1	5	45	328	2.27	1	.03	1	.17	252	10	.01	6	360	11	1	1	49	1	.03	1	9.8	1	20	6
481634	.1	1.54	1	14	.1	1	2.75	.1	13	117	811	9.51	1	.05	6	1.01	830	21	.01	25	5420	1	1	6	45	1	.01	1	338.0	3	65	17
481651	.7	.69	1	34	.1	1	.94	.1	4	49	81	2.05	1	.08	5	.40	231	7	.03	7	590	12	4	1	23	1	.01	1	23.8	1	22	4
481652	.7	.91	6	35	.1	1	1.52	.1	4	47	105	2.03	1	.07	7	.62	343	11	.02	11	560	4	5	1	29	3	.01	1	29.3	1	28	4
481653	1.7	.29	211	5	.1	6	>15.00	.1	4	35	118	.33	5	.01	1	.11	583	3	.01	5	270	13	5	1	13	1	.01	1	7.2	3	9	6
481654	.1	.03	1	1	.1	1	.12	.1	83	18	3762	>15.00	1	.01	1	.10	29	58	.01	28	10	1	1	15	1	1	.01	1	5.0	1	1	12
481655	.1	.98	1	46	.1	1	.21	.1	17	19	827	>15.00	1	.06	8	.79	204	43	.01	22	390	1	1	11	1	1	.02	1	44.0	1	9	6
481656	.6	.98	1	119	.1	1	.19	.1	5	44	36	2.18	1	.08	8	.64	268	9	.03	10	480	7	5	1	18	10	.04	1	23.9	1	47	3
481657	.4	2.23	1	68	.1	1	.18	.1	10	67	57	4.36	1	.12	14	1.78	331	20	.02	32	620	1	1	3	16	1	.06	1	66.3	1	63	1
481658	.1	1.41	1	22	.1	1	1.73	.1	20	106	592	7.56	1	.05	7	1.02	563	71	.01	30	5860	1	1	5	30	1	.02	1	194.1	5	37	3

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: BOMBINI #026
 ATTN: LINDA CARON

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL: (604)327-3436 FAX: (604)327-3423

FILE NO: 6V-0344-RJ1+2
 DATE: 96/07/10
 * rock * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SW PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
481551	2.9	.83	1	28	.1	5	.31	.1	10	37	1175	8.34	1	.07	11	.38	241	18	.03	12	480	11	1	5	5	1	.01	1	9.4	1	38	4
481552	2.6	1.07	105	41	.1	7	.43	.1	7	52	409	3.12	2	.07	13	.70	266	12	.03	10	580	9	1	2	19	1	.01	1	12.7	2	25	1
481553	2.6	1.30	1	32	.1	4	1.18	.1	15	57	683	5.64	1	.06	13	.83	454	15	.03	11	470	1	1	4	19	1	.01	1	12.9	1	24	14
481554	.1	.13	1	1	.1	1	2.78	.1	59	27	3217	>15.00	1	.01	4	.27	247	47	.01	24	10	1	1	14	1	1	.01	1	11.8	1	1	7
481555	.1	.48	1	2	.1	46	.20	.1	56	39	5871	>15.00	1	.02	6	.41	187	44	.02	23	210	1	1	12	1	1	.01	1	19.8	1	1	12
481556	2.0	.07	302	5	.1	18	>15.00	.1	4	13	47	.35	47	.01	6	.16	455	6	.01	7	130	26	16	1	1	1	.01	1	7.5	5	15	4
481557	2.9	1.00	76	48	.1	5	3.35	.1	7	59	222	3.53	4	.10	12	.61	243	12	.03	10	610	10	1	3	29	1	.02	1	15.8	2	20	1
481558	3.1	2.44	145	46	.1	4	2.24	.1	26	131	445	6.25	1	.04	20	2.60	860	20	.05	38	1950	1	1	5	87	1	.12	1	105.2	1	81	3
481559	1.6	1.10	1	6	.1	25	.26	.1	81	70	3759	>15.00	1	.02	9	.90	312	40	.02	27	440	1	1	10	1	1	.03	1	38.2	1	11	13
481560	2.3	1.19	1	20	.1	10	1.01	.1	16	35	1343	8.40	1	.06	11	.84	365	20	.04	14	470	1	1	5	14	1	.01	1	21.9	1	15	6
481561	2.3	.09	315	9	.1	18	>15.00	.1	6	14	105	.51	47	.01	6	.19	670	7	.01	7	140	27	17	1	1	1	.01	1	8.3	5	16	2
481562	3.1	1.09	96	23	.1	17	.94	.1	6	45	853	3.28	1	.04	10	.73	378	13	.03	11	600	5	1	3	31	1	.02	1	12.4	2	17	1
481563	2.5	.74	1	14	.1	17	6.50	.1	24	37	1924	9.57	1	.02	7	.32	1754	21	.01	19	270	1	1	6	10	1	.02	1	21.7	1	28	6
481564	2.4	.07	299	6	.1	18	>15.00	.1	5	15	202	.51	48	.01	5	.11	578	7	.01	7	130	29	16	1	1	1	.01	1	7.5	5	16	7
481565	1.3	.48	1	8	.1	1	12.74	.1	19	18	871	14.68	1	.02	6	.35	1710	27	.01	21	180	1	1	9	4	1	.01	1	42.8	1	3	4
481566	2.9	1.01	126	29	.1	7	.64	.1	5	37	333	2.66	10	.05	10	.58	291	12	.04	8	610	12	1	2	36	1	.02	1	13.2	3	15	2
481567	2.2	.87	1	11	.1	1	.13	.1	113	65	448	>15.00	1	.04	11	.48	217	27	.02	21	180	1	1	9	6	1	.03	1	40.3	27	4	8
481568	3.7	1.13	6	26	.1	13	.35	.1	12	60	662	4.23	3	.05	11	.58	214	14	.06	10	530	6	1	3	44	1	.03	1	14.5	4	13	2
481569	2.7	1.09	1	28	.1	8	.20	.1	13	54	1056	7.69	1	.05	14	.63	223	28	.03	15	460	1	1	5	15	1	.03	1	24.4	8	12	2
481570	3.5	.15	1	13	.1	1	.03	.1	17	32	707	>15.00	1	.03	4	.02	77	44	.01	21	200	1	1	12	1	1	.01	1	40.2	1	1	9
481571	7.2	1.14	1	34	.1	1	.03	.1	10	40	1188	11.78	1	.08	13	.63	168	26	.02	16	570	1	1	7	1	1	.01	1	36.1	1	9	5
481572	13.7	.75	54	22	.1	27	1.48	.1	6	53	1506	3.79	5	.06	10	.57	308	13	.04	10	650	12	1	3	32	1	.01	1	21.0	2	45	11
481573	3.1	.98	133	36	.1	6	.51	.1	9	37	307	2.79	9	.10	12	.60	358	11	.03	10	850	12	1	2	25	1	.01	1	15.6	4	22	3
481601	.1	.38	1	17	.1	1	.90	.1	41	36	2346	>15.00	1	.03	6	.23	638	47	.01	25	130	1	1	12	1	1	.02	1	39.4	1	1	11
481602	.2	.15	1	56	.1	1	.15	.1	2	68	51	1.03	1	.05	1	.06	138	19	.01	21	350	13	1	1	3	1	.01	1	82.1	7	636	1
481603	1.8	.68	188	10	.1	3	>15.00	.1	6	26	63	1.18	1	.01	5	.71	698	8	.01	11	320	6	1	1	99	1	.03	1	21.2	2	44	4
481604	1.2	.94	1	24	.1	1	2.81	.1	6	42	151	2.21	1	.10	9	.61	360	9	.04	7	620	4	1	2	37	1	.02	1	15.6	1	24	2
481605	.1	.45	1	6	.1	1	.37	.1	72	15	3227	>15.00	1	.02	4	.39	141	44	.01	26	10	1	1	14	1	1	.01	1	16.6	44	1	14
481606	.1	.30	1	223	.1	1	1.61	.1	9	108	50	12.38	1	.19	1	.20	749	22	.01	17	7090	1	1	7	66	1	.01	1	234.8	2	25	17
481607	.7	.09	1	37	.1	1	.05	.1	1	76	15	1.35	3	.04	1	.02	32	6	.01	4	640	26	1	1	5	1	.01	1	36.5	5	14	1
481608	.1	.07	160	9	.1	7	>15.00	.1	2	15	31	.21	23	.01	1	.06	509	3	.01	4	160	17	7	1	1	1	.01	1	5.3	3	11	1
481609	1.3	1.23	14	41	.1	1	1.29	.1	6	66	167	2.59	1	.06	11	.88	433	9	.03	13	540	1	1	2	27	1	.03	1	21.5	3	26	2
481610	1.1	.30	1	61	.1	1	.17	.1	5	59	60	1.76	1	.09	2	.11	148	20	.01	22	320	13	1	1	3	1	.01	1	37.8	4	209	5
481611	.7	.87	1	56	.1	1	.50	.1	7	58	104	2.84	1	.09	8	.73	367	11	.05	14	500	1	1	2	14	1	.05	1	25.7	1	99	2
481612	.6	.87	70	33	.1	1	.11	.1	4	82	30	1.95	1	.06	8	.66	186	8	.03	10	350	3	1	1	13	1	.03	1	53.7	5	23	2
481613	.7	1.53	68	30	.1	1	.14	.1	6	42	12	3.28	1	.09	14	1.13	498	12	.04	11	490	1	1	3	12	1	.07	1	40.7	1	49	1
481614	.7	1.38	1	35	.1	1	1.94	.1	7	47	20	2.96	1	.08	14	1.02	721	10	.03	12	480	1	1	3	10	1	.03	1	41.1	1	62	1
481615	.5	1.41	1	59	.1	1	.16	.1	7	49	21	3.28	1	.10	11	.82	504	10	.03	14	300	1	1	3	9	1	.04	1	31.0	2	82	2
481616	.8	1.92	22	69	.1	1	.14	.1	8	35	41	3.92	1	.23	12	1.38	321	15	.02	15	630	1	1	3	26	1	.09	1	37.1	1	76	2
481617	1.0	1.82	23	63	.1	1	.12	.1	8	37	36	3.57	1	.13	13	1.28	365	14	.02	14	580	1	1	3	17	1	.09	1	37.1	1	74	3
481618	2.0	.85	1	37	.1	1	.38	.1	4	60	211	2.35	1	.10	7	.48	187	8	.04	7	580	8	1	1	17	1	.02	1	13.3	2	21	1
481619	1.6	2.42	1	30	.1	1	.33	.1	13	167	115	5.71	1	.09	20	2.23	543	18	.02	35	190	1	1	5	13	1	.03	1	82.2	3	81	1
481620	3.3	.40	1	22	.1	4	.24	.1	12	181	157	3.96	1	.06	3	.29	119	10	.01	13	20	6	1	3	1	1	.01	1	9.9	8	16	1

P.02
 604 327 3423
 MIN-EN LABS
 JUL-10-1996 13:32



MINERAL ENVIRONMENTS LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
 8282 SHERBROOKE STREET
 VANCOUVER, B.C., CANADA V5X 4E8
 TELEPHONE (604) 327-3436
 FAX (604) 327-3423

SMITHERS LAB:
 3176 TATLOW ROAD
 SMITHERS, B.C., CANADA V0J 2N0
 TELEPHONE (504) 847-3004
 FAX (604) 847-3005

Assay Certificate


6V-0357-RA1

Company: **KETTLE RIVER RESOURCES LTD**
 Project: **026 BOMBINI**
 Attn: **LINDA CARON**

Date: JUL-12-96

We hereby certify the following Assay of 2 ROCK samples submitted JUL-08-96 by L. Caron.

Sample Number	Cu %
481574	
481575	
481576	
481577	.795
481578	
481579	.522
481580	
481581	
481582	
481583	
481584	
481585	
481586	
481587	
481588	
481589	
481590	
481591	
481592	
481593	
481594	
481595	
481596	
481597	

Certified by 

MIN-EN LABORATORIES

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CJ PPM	FE %	GA %	K %	LI %	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPM
481701	.8	.10	770	10	.1	1	.02	.1	57	453	4	3.55	1.01	1	8.62	512	2	.01	885	10	1	1	4	7	1	.01	1	16.5	1	7	4	
481702	1.5	.08	1160	7	.4	1	.03	.1	80	220	3	2.69	1.01	11	>15.00	462	1	.01	1199	10	1	1	4	16	1	.01	1	16.3	1	9	25	
481703	1.0	.10	834	7	.1	1	.01	.1	62	536	4	3.87	1.01	1	10.68	533	1	.01	1224	10	1	1	4	8	1	.01	1	15.3	1	8	17	
481704	.3	3.38	132	11	.1	1	.56	.1	27	189	50	5.05	1.02	25	3.97	1126	16	.02	72	40	1	1	5	12	1	.06	1	162.5	1	62	1	
481705	.3	.61	38	32	.1	1	.33	.1	3	75	14	1.25	1.05	5	.46	167	6	.02	12	190	1	1	1	14	1	.01	1	9.9	4	21	1	
481706	.5	.84	21	53	.1	1	.55	.1	4	39	15	1.64	1.07	8	.58	312	7	.05	9	370	1	1	1	22	1	.01	1	13.0	2	38	2	
481707	.1	1.80	1	26	.1	1	.20	.1	10	248	67	4.16	1.05	15	1.22	302	14	.01	40	390	1	1	3	8	1	.01	1	53.3	10	39	1	
481708	.4	2.01	1	139	.1	1	.19	.1	9	23	19	3.52	1.06	15	1.50	945	13	.02	22	420	1	1	2	13	1	.05	1	49.8	1	76	1	
481709	.7	2.61	1	179	.1	1	.34	.1	16	47	135	4.85	1.25	18	2.13	910	18	.02	20	610	1	1	4	13	1	.11	1	118.6	1	60	3	
481710	2.2	.27	255	9	.2	5	>15.00	.1	3	17	17	4.40	15.02	2	.33	449	5	.01	5	200	8	5	1	88	1	.02	1	8.7	2	19	3	
481711	.5	1.37	70	83	.1	1	.29	.1	8	60	37	2.63	1.20	12	1.07	535	10	.02	16	370	1	1	2	8	1	.04	1	46.1	1	48	1	
481712	.6	1.87	1	55	.1	1	.36	.1	11	30	46	4.22	1.14	13	1.02	354	16	.02	22	1130	1	1	3	19	1	.04	1	38.9	1	55	3	
481713	.9	.18	253	20	.1	6	>15.00	.1	3	10	8	.57	21.05	2	.20	555	6	.01	6	210	17	8	1	1	1	1.01	1	5.9	1	31	1	
481714	.5	.48	1	48	.1	1	.38	.1	2	28	40	1.60	1.07	1	.18	78	6	.01	11	210	2	1	1	7	1	.01	1	15.2	2	43	2	
481715	.6	1.81	1	73	.1	1	.25	.1	11	37	38	3.73	1.28	11	1.34	352	14	.02	22	710	1	1	3	19	1	.07	1	41.9	1	62	2	
481716	.4	2.11	73	36	.1	1	.34	.1	14	196	26	3.63	1.07	16	1.82	550	14	.02	47	510	1	1	3	17	1	.01	1	67.8	6	75	1	
481717	1.5	.55	1	14	.1	1	.07	.1	21	81	292	14.78	1.06	1	.12	104	28	.01	26	430	1	1	8	1	1	.01	1	55.1	1	50	8	
481718	.1	1.87	1	61	.1	1	.12	.1	7	161	30	4.28	1.08	13	1.46	455	15	.02	21	510	1	1	3	11	1	.04	1	144.6	6	49	1	
481719	.7	1.10	1	70	.1	1	.06	.1	6	42	70	2.84	1.10	7	.64	123	15	.01	17	280	1	1	2	10	1	.06	1	62.3	2	45	1	
481720	1.0	.06	862	6	.1	1	.03	.1	63	707	5	3.58	1.01	1	10.35	556	1	.01	665	10	1	1	4	8	1	.01	1	14.7	1	11	1	
481721	.7	.36	49	155	.1	1	.06	.1	2	30	11	.88	1.08	1	.21	40	5	.01	5	430	1	1	1	4	1	.01	1	12.8	1	16	1	
481722	2.4	.25	212	10	.1	5	>15.00	.1	3	17	9	.72	20.03	2	.23	293	5	.01	7	200	10	6	1	72	1	.01	1	9.5	1	22	1	
481723	.7	2.69	1	239	.1	1	.33	.1	16	25	102	6.39	1.32	17	2.05	1181	21	.02	18	660	1	1	5	17	1	.09	1	121.4	1	71	2	
481724	.4	3.06	1	60	.1	1	.45	.1	18	33	27	5.92	1.06	17	2.57	1462	20	.02	22	780	1	1	4	26	1	.08	1	149.4	1	77	1	
481725	.5	2.35	1	62	.1	1	.35	.1	15	32	35	4.73	1.05	14	1.96	1244	16	.03	16	740	1	1	4	14	1	.10	1	103.2	1	68	2	
481726	.6	2.49	59	52	.1	1	.87	.1	18	88	55	4.12	1.08	17	2.44	876	14	.03	24	810	1	1	3	30	1	.06	1	103.8	1	74	3	
481727	1.0	2.00	27	64	.1	1	.36	.1	12	37	54	4.00	1.13	13	1.55	472	14	.01	19	970	1	1	3	10	1	.07	1	50.4	1	54	8	
481728	.5	1.72	39	231	.1	1	.21	.1	8	39	17	3.44	1.32	12	1.18	788	13	.03	12	500	1	1	2	16	1	.08	1	50.4	1	81	2	
481729	.5	1.29	26	86	.1	1	.29	.1	8	50	28	3.07	1.47	8	.92	543	11	.02	20	350	2	1	2	13	1	.05	1	41.0	1	83	1	
481730	.4	2.14	1	221	.1	1	.26	.1	14	39	70	4.43	1.27	13	1.60	1362	15	.02	20	350	1	1	3	8	1	.10	1	138.1	1	65	7	
481731	.3	.09	117	4	.1	1	.05	.1	2	122	2	.31	1.01	1	.08	77	2	.01	7	130	1	1	1	1	1	.01	1	5.6	8	5	1	
481732	.1	.01	404	90	.1	9	>15.00	.9	3	10	3	.15	36.01	2	.17	175	4	.01	4	550	18	10	1	1	1	1.01	1	7.1	2	6	2	
481733	.1	5.56	1	62	.1	1	2.74	.1	61	357	72	8.70	1.01	59	6.32	3124	21	.01	228	2110	1	1	7	143	1	.01	1	175.2	1	117	1	
481734	2.4	.21	265	11	.1	8	>15.00	.1	3	19	7	.22	24.01	2	.09	285	4	.01	7	170	16	8	1	277	1	.02	1	7.2	2	15	1	
481735	1.7	1.17	103	82	.5	1	6.83	10.8	6	51	33	1.80	1.19	10	.87	787	10	.01	17	200	29	2	1	185	1	.02	1	19.7	7	2392	5	
481736	54.5	.60	267	34	.1	23	14.70	>100.0	9	33	1172	5.35	1.01	5	2.21	>10000	36	.01	52	380	>10000	21	7	252	1	.01	1	20.5	166	>10000	73	
481737	2.3	.35	188	24	.1	6	>15.00	.1	4	31	30	.50	14.03	2	.14	256	4	.01	7	250	59	5	1	35	1	.03	1	7.4	4	349	1	
481738	.3	1.54	37	33	.1	1	.20	.1	10	31	25	3.85	1.05	12	1.34	793	13	.02	14	420	1	1	2	8	1	.01	1	51.9	1	98	1	
481751	.9	.05	638	15	.1	1	.10	.1	74	447	4	5.49	1.01	1	9.75	639	2	.01	1261	10	1	1	5	4	1	.01	1	15.6	1	18	10	
481752	1.0	.26	767	13	.1	1	.07	.1	63	556	14	3.69	1.01	1	8.63	578	3	.01	871	10	1	1	4	8	1	.01	1	29.8	1	13	2	
481753	.4	1.80	1	22	.1	1	.07	.1	9	33	48	5.28	1.02	10	1.40	1004	16	.03	20	500	1	1	4	4	1	.09	1	103.8	1	85	2	
481754	1.0	.13	743	10	.1	1	.05	.1	59	515	4	3.81	1.01	1	8.71	560	2	.01	915	10	1	1	4	8	1	.01	1	17.1	1	14	1	
481755	.1	3.19	1	16	.1	1	1.07	.1	26	18	19	6.63	1.02	13	3.16	1306	19	.02	32	130	1	1	5	14	1	.03	1	266.9	1	64	3	
481756	.4	.96	1	87	.1	1	.07	.1	4	41	46	2.61	1.10	5	.54	84	12	.01	18	460	1	1	1	9	1	.01	1	36.1	2	79	9	
481757	.3	.39	1	65	.1	1	.03	.1	3	29	51	3.34	1.08	2	.10	51	11	.01	11	510	4	1	2	3	1	.01	1	28.5	1	95	9	
481758	1.0	1.25	36	66	.1	1	.64	.1	18	36	41	3.61	1.12	8	1.31	354	14	.02	15	820	1	1	2	19	1	.09	1	37.5	1	31	2	
481759	1.3	1.71	48	64	.1	1	.38	.1	16	30	45	4.32	1.08	11	1.74	350	15	.02	15	810	1	1	3	26	1	.11	1	64.0	1	32	2	
481760	1.5	.91	639	42	.1	1	3.57	.1	38	539	44	2.69	1.03	5	4.92	1011	9	.01	664	170	1	1	3	157	1	.01	1	30.2	11	28	3	
481761	2.2	.85	209	48	.1	4	>15.00	.1	4	34	7	1.20	1.15	9	.74	164	8	.02	13	130	1	2	1	115	1	.04	1	17.8	2	43	3	
481762	.9	3.10	1	109	.1	1	1.00	.1	24	107	57	6.80	1.18	23	2.79	789	23	.02														



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Assay Certificate

6V-0377-RA2

Company: **KETTLE RIVER RESOURCES LTD**
Project: **MTATTWOOD#06**
Attn: **LINDA CARON**

Date: JUL-19-96

We hereby certify the following Assay of 1 ROCK samples submitted JUL-12-96 by L Caron.

Sample Number	Pb %	Zn %
481725		
481726		
481727		
481728		
481729		
481730		
481731		
481732		
481733		
481734		
481735		
481736	1.12	7.43
481737		
481738		
481751		
481752		
481753		
481754		
481755		
481756		
481757		
481758		
481759		
481760		

Certified by 

MIN-EN LABORATORIES

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: MT ATTWOOD #06
 ATTN: LINDA CARON

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FILE NO: 6V
 DATE: 967
 * ROCK * (ACT:F3)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CO PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
481739	.6	.55	1	129	.1	1	.45	.1	5	86	51	2.07	1	.11	3	.41	107	9	.01	19	1120	1	1	1	20	1	.01	1	36.0	5	62	3
481740	1.8	.48	156	43	.1	5	13.71	.1	3	32	16	.39	11	.06	4	.25	160	4	.01	5	130	8	5	1	22	1	.02	1	7.3	3	25	1
481741	.1	.02	1	25	.1	1	.06	.1	92	37	961	>15.00	1	.01	2	.05	1	36	.01	23	10	1	1	10	1	1	.01	1	.1	1	1	7
481742	.3	1.16	1	88	.1	1	.09	.1	6	36	31	2.89	1	.05	15	.77	666	11	.03	11	290	5	1	2	8	1	.01	1	31.2	1	61	1
481765	.4	.62	1	42	.1	1	.03	.1	3	63	81	2.21	1	.06	7	.28	60	9	.01	12	170	1	1	1	1	1	.02	1	44.8	4	26	1
481766	.8	.31	47	137	.2	3	13.79	.1	2	63	32	.59	1	.11	2	.17	164	10	.01	38	>10000	3	1	1	401	1	.01	1	86.6	6	170	2
481767	7.2	1.18	370	11	.1	1	10.49	>100.0	4	10	147	2.70	1	.01	34	3.65	1193	17	.01	16	170	3393	1	3	425	1	.01	1	10.0	55	>10000	18
481768	1.0	1.33	211	46	.2	1	11.41	.1	4	31	20	1.84	1	.05	32	1.84	575	10	.01	15	190	63	1	2	593	1	.01	1	16.5	1	756	3
481769	2.1	1.33	415	13	.1	1	>15.00	.1	5	18	59	4.29	1	.01	42	6.14	1612	9	.01	19	10	467	1	5	597	1	.01	1	18.1	1	1045	2

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TOTAL P.03



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Geochemical Analysis Certificate

6V-0384-RG1

Company: **KETTLE RIVER RESOURCES LTD**
Project: **MT ATTWOOD #06**
Attn: **LINDA CARON**

Date: JUL-19-96

We hereby certify the following Geochemical Analysis of 9 ROCK samples submitted JUL-15-96 by L. Caron.

Sample Number	Zn %
481739	
481740	
481741	
481742	
481765	
481766	
481767	4.68
481768	
481769	

Certified by 

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APPENDIX 2

Rock Sample Descriptions

481551	02.07	main trench	0.5 m chip across o/c, sample of heavy iron stained, dark and light gray, medium crystalline syenomonzonite dyke, ghost light green chlorite altered mm scale hornblende phenocrysts to 5%, 10% light grey - green feldspar phenos, very rare irregular quartz phenos, fracture and disseminated very fine grained pyrite to 2%, sheared ipt, highly fractured rock, goethite common on fractures
481552	02.07	main trench	2.0 m chip of dark and light gray, medium crystalline syenomonzonite, disseminated and fracture very fine grained pyrite to 2%, weak fracture stockwork at 5 / 10 cm, minor broken white quartz - pyrite veins to 5 cm across at 340 / 70 W
481553	02.07	main trench	1.5 m chip of dark green chlorite - quartz eye massive pyrite - chalcopyrite - arsenopyrite VMS horizon?, anhedral glassy quartz eyes to 5%, very fine grained pyrite to 15%, chalcopyrite to 2%
481554	02.07	main trench	0.5 m chip across massive very fine grained pyrrhotite to 80%, very fine grained and framboidal pyrite to 5%, 5% glassy quartz eyes in dark green chlorite matrix, massive sulphide lenses are irregular over 1 - 2 m up to 0.5 m wide
481555	02.07	main trench	2.0 m chip across massive sulphide horizon with 10% glassy quartz eyes in dark green chlorite matrix, very fine grained pyrrhotite to 70%, mm scale blebs of chalcopyrite to 5%, very fine grained pyrite to 5%, fine grained dark brown sphalerite? to 5%, white hydrozincite common on weathered surface
481556	02.07	main trench	1.0 m chip of white and black banded fine crystalline marble, structural footwall to massive sulphide horizon (stratigraphic HW?), no visible sulphides, massive bedded
481557	02.07	main trench	2.0 m chip of light and dark gray, fine grained chloritized hornblende syenomonzonite, disseminated, fracture and irregular mm scale blebs of pyrrhotite and pyrite to 2%, blocky jointed
481558	02.07	main trench	2.0 m chip of light and dark gray, fine grained chloritized hornblende syenomonzonite, includes fault breccia of dark green basalt dyke and pyrite rich fault gouge, fault zone at 045 / 30 N
481559	03.07	main trench	0.5 m chip of dark green very fine grained basalt dyke, post mineral and pre-faulting, brecciated in part, trace disseminated very fine grained pyrite along dyke margins, dyke up to 50 cm wide
481560	03.07	main trench	2.0 m chip of VMS horizon, massive very fine grained pyrrhotite, pyrite, chalcopyrite and sphalerite to 80%, in dark green very fine grained chlorite matrix
481561	03.07	main trench	0.8 m chip of light and dark gray and white banded fine crystalline marble and quartz pebble limestone conglomerate, very fine crystalline barite in marble? - hefty rocks
481562	03.07	main trench	1.0 m chip of light and dark gray fine grained chloritized hornblende syenomonzonite, highly sheared in fault zone at 045 / 30N, disseminated and fracture pyrrhotite to 2%
481563	03.07	main trench	0.3 m chip of pyritized brecciated massive sulphide lense in fault zone at 045 / 30 N, very fine grained pyrite as fracture coatings and mm scale veinlets
481564	03.07	main trench	0.3 m chip across FW of fault zone, sample of white and black banded on cm scale fine crystalline marble, marble is dragged into fault, banding at 315 / 70 E
481565	03.07	main trench	0.3 m chip across fault zone at 045 / 30 N, sample of pyritized brecciated fine grained chloritized hornblende syenomonzonite, fracture and mm scale veins of very fine grained pyrite to 3%
481566	03.07	main trench	1.5 m chip across light and dark gray, fine grained chloritized hornblende syenomonzonite, disseminated, fracture and mm scale blebs of pyrrhotite to 2%, includes broken 5 cm scale fragments of white quartz - pyrite veins
481567	03.07	main trench	0.2 m chip across white quartz - pyrite vein, drusy in part, bullish in part, disseminated and cm scale blebs of dull yellow pyrite to 5%
481568	03.07	main trench	0.5 m chip of silicified light and dark gray, fine grained chloritized hornblende syenomonzonite, adjacent to quartz vein of # 567, disseminated, fracture and mm scale blebs of pyrrhotite to 2%
481569	03.07	main trench	0.5 m chip of light and dark gray, fine grained chloritized hornblende syenomonzonite, disseminated, fracture and mm scale blebs of pyrrhotite to 2%
481570	03.07	main trench	0.5 m chip across bleached light gray, fine grained chloritized hornblende syenomonzonite, highly fractured with weak pyrrhotite - pyrite fracture stockwork at 5 / 10 cm

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481571	03.07	main trench	0.5 m chip across bleached light gray, fine grained chloritized hornblende syenomonzonite, highly fractured with weak pyrrhotite - pyrite fracture stockwork at 5 / 10 cm
481572	03.07	open cut	1.0 m chip, breast of portal, sample of heavy iron stained fine grained chloritized hornblende syenomonzonite, disseminated, fracture and mm scale blebs of pyrrhotite to 2%, includes cm scale narrow pyritized shears at 315 / 90
481573	03.07	open cut	2.5 m chip at breast, sample of heavy iron stained fine grained chloritized hornblende syenomonzonite, disseminated, fracture and mm scale blebs of pyrrhotite to 2%, includes 5 cm scale lenses / fragments? of pyrrhotite massive sulphide
481574	04.07	open cut	2.5 m chip at breast, sample of heavy iron stained fine grained chloritized hornblende syenomonzonite, disseminated, fracture and mm scale blebs of pyrrhotite to 2%
481575	04.07	open cut	2.0 m chip at breast, sample of heavy iron stained fine grained chloritized hornblende syenomonzonite, disseminated, fracture and mm scale blebs of pyrrhotite to 2%
481576	04.07	open cut	1.0 m chip in immediate HW to VMS of # 577, sample of heavy iron stained fine grained chloritized hornblende syenomonzonite, disseminated, fracture and mm scale blebs of pyrrhotite to 2%
481577	04.07	open cut	0.5 m chip across lower part of open cut wall, sample of dark green, chlorite - quartz eye VMS horizon, massive very fine grained pyrrhotite to 30%, very fine grained pyrite to 10%, mm stringers of chalcopyrite to 0.5%, trace dark brown, very fine grained sphalerite?
481578	04.07	open cut	0.3 m chip at face of open cut, sample of white quartz - pyrite vein , broken in narrow fault zone and discontinuous over 2 m, disseminated and mm scale blebs of fine crystalline pyrite to 5%
481579	04.07	open cut	1.0 m chip at face of open cut, sample of dark green chlorite - quartz eye massive sulphide, very fine grained pyrrhotite to 40%, very fine grained pyrite to 10%, rare cm scale stringers of chalcopyrite to 0.5%, trace dark brown very fine grained sphalerite
481580	04.07	open cut	1.5 m chip at breast, sample of massive bedded, light gray and buff, fine crystalline marble, mm scale laminae of argillaceous partings common, minor silty bands, includes "remobilized" cm scale lenses of massive very fine grained pyrrhotite along fractures from structurally overlying massive sulphide horizon - result of syenomonzonite intrusion?
481581	04.07	open cut	0.5 m chip on high wall of open cut, sample of dark and light gray banded fine crystalline marble with 10 cm scale lenses of dark green chlorite - pyrrhotite - pyrite lenses conformable to bedding - replacements?
481582	04.07	open cut	1.0 m chip on high wall of open cut, sample of heavy iron stained fine grained chloritized hornblende syenomonzonite, disseminated, fracture and mm scale blebs of pyrrhotite to 2%
481583	04.07	open cut	0.3 m chip on high wall of open cut, sample of dark green chlorite - quartz eye massive sulphide, very fine grained pyrrhotite to 40%, very fine grained pyrite to 10%, cm scale stringers of chalcopyrite to 0.5%, trace dark brown very fine grained sphalerite?
481584	05.07	access road	1.0 m chip across fracturing in black very fine grained argillite and silty argillite, minor iron stain on fractures, bedding at 080 / 40 N
481585	05.07	access road	1.0 m chip across intensely fractured light and dark gray silty, sandy argillite, grades to very fine grained argillaceous quartzite, minor iron stain on fractures
481586	05.07	Johannesberg	1.0 m chip across wall of open cut and water filled 4 m deep decline, across bedding in sheared and highly fractured light and dark gray very fine grained hornfels, disseminated and fracture very fine grained pyrrhotite to 5%, minor fine grained pyrite, fault at 285 / 40S
481587	05.07	Johannesberg	1.0 m chip across fault zone in same cut as #586, sample of very fine pyrite - hornfels gouge, pyrite to 5%
481588	05.07	Johannesberg	1.0 m chip across HW to fault of #587, sample of light and dark gray very fine grained hornfels, trace disseminated very fine grained pyrite
481589	05.07	Johannesberg	select grab from dump of open cut of #588, sample of intensely iron stained and fractured light and dark gray argillite, disseminated and fracture pyrite to 1%
481590	05.07	Johannesberg open cut	1.0 m chip across cat cut o/c below old workings, sample of bleached and highly fractured, light buff very fine grained hornfels, disseminated and fracture very fine grained pyrite to 3%, rare 10 cm "lenses" of massive very fine grained pyrrhotite

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481591	05.07	Johannesberg open cut	1.5 m chip across cat cut o/c below old workings, sample of bleached and highly fractured, light buff very fine grained hornfels, disseminated and fracture very fine grained pyrite to 3%, rare 10 cm "lenses" of massive very fine grained pyrrhotite
481592	05.07	Johannesberg open cut	1.5 m chip across cat cut o/c below old workings, sample of bleached and highly fractured, light buff very fine grained hornfels, locally quartzitic over 5 - 10 cm bands, trace disseminated very fine grained pyrite
481593	05.07	Johannesberg open cut	1.5 m chip across cat cut o/c below old workings, sample of bleached and highly fractured, light buff very fine grained hornfels, disseminated and fracture very fine grained pyrite to 3%, rare 10 cm "lenses" of massive very fine grained pyrrhotite
481594	05.07	Johannesberg open cut	1.5 m chip across cat cut o/c below old workings, sample of bleached and highly fractured, light buff very fine grained hornfels, disseminated and fracture very fine grained pyrite to 3%, rare 10 - 30 cm "lenses" of massive very fine grained pyrrhotite
481595	05.07	Johannesberg open cut	2.0 m chip across cat cut o/c below old workings, sample of bleached and highly fractured, light buff very fine grained hornfels, disseminated and fracture very fine grained pyrite to 1%, rare 10 cm "lenses" of massive very fine grained pyrrhotite
481596	05.07	Johannesberg open cut	0.5 m chip across cat cut below old workings, sample of broken and fractured white quartz - pyrite vein, disseminated and irregular cm scale blebs of dull yellow pyrite to 2%
481597	05.07	Johannesberg open cut	0.5 m chip across cat scrape, sample of heavy iron stained, intensely fractured, bleached, light buff and black, argillite and phyllite, disseminated very fine grained pyrite to 1%, irregular cm scale stringers of very fine grained pyrrhotite to 2%
481598	05.07	Johannesberg tunnel	0.0 - 1.0 m (1.0 m) from portal of open cut to adit, sample of iron stained, fine grained, chloritized hornblende syenomonzonite, disseminated and fracture very fine grained pyrite to 1%, blocky jointed
481599	05.07	Johannesberg tunnel	1.0 - 2.0 m (1.0 m) from portal of open cut to adit, sample of iron stained, fine grained, chloritized hornblende syenomonzonite, disseminated and fracture very fine grained pyrite to 1%, blocky jointed
481600	05.07	Johannesberg tunnel	2.0 - 3.0 m (1.0 m) from portal of open cut to adit, sample of iron stained, fine grained, chloritized hornblende syenomonzonite, disseminated and fracture very fine grained pyrite to 1%, blocky jointed
481601	02.07	main trench	0.30 m chip across black, dark green chlorite - pyrite - pyrrhotite - chalcopyrite VMS horizon, very fine grained massive pyrite to 10%, fine grained pyrrhotite to 5%, chalcopyrite to 2%, trace arsenopyrite and sphalerite?, horizon is conformable to limestone bedding at 115 / 40 N
481602	02.07	S/2 main trench	1.0 m composite across bedding in black, carbonaceous, graphitic, argillite, thin partings at 080 / 40 N, disseminated very fine grained pyrite to 15, locally well iron stained
481603	02.07	N/2 main trench	2.0 m composite chip from o/c, sample of dark and light green, calc - silicate skarn and banded marble, locally intensely sheared at 080 / 40 N and parallel to bedding
481604	02.03	N/2 main trench	select grab from dump of caved open cut (adit?), sample of pyritic light gray chloritized hornblende syenomonzonite (<5% visible quartz, 70% light gray mm scale subhedral feldspar phenos, 5% mm scale subhedral chloritic hornblende laths, in very fine grained feldspar rich matrix, disseminated and irregular mm scale blebs of pyrite to 1% give rock a "leopard spot" appearance, weak foliation
481605	02.07	N/2 main trench	select grab from dump of caved adit?, sample of massive fine grained pyrrhotite in quartz eye - chlorite VMS horizon, pyrrhotite to 40%, dark brown, very fine crystalline sphalerite 2%, trace chalcopyrite and arsenopyrite, glassy and light gray subhedral mm scale quartz eyes scattered through dark green chlorite groundmass to 5%
481606	02.07	S/2 main trench	3.0 m composite across o/c, sample of heavy iron stained black argillite, disseminated and fracture very fine grained pyrite to 2%, rare mm scale white quartz veinlets, bedding at 080 / 35 N, thin partings very common interbedded with minor light brown silty argillite beds on 10 cm scale
481607	03.07	lower road access	1.5 m chip across interbedded black carbonaceous argillite and black carbonaceous sandy argillite, limy ipt, disseminated and fracture very fine grained pyrite to 0.5%, bedding at 080 / 40 N, gradational very fine interbedded laminae over 0.5 m at contact to overlying? white and black banded fine crystalline marble
481608	03.07	lower road access	2.0 m composite chip over road o/c, sample of white and black banded, fine crystalline marble noted in #607, trace disseminated very fine grained pyrite (diagenetic?)
481609	03.07	S lower road access	grab from dump of 2 m deep pit, no access, sample of pyrrhotite - pyrite chloritized hornblende syenomonzonite, disseminated and fracture sulphides to 2%, pit opens 315 / 40 N shear zone near limestone contact - broken quartz - pyrite vein?

Mt. Attwood Project: Bombini Option

481610	03.07	S lower road access	select grab from dump of 2 m deep water filled decline, sample of black carbonaceous, graphitic pyritic argillite, thin partings very common, minor mm scale white quartz - pyrite veinlets perpendicular to bedding at 105 / 60 N - tension gash filling
481611	03.07	S lower road access	select grab from North end of same dump as #610, sample of light brown, gray, and buff, very fine grained hornfels, disseminated and fracture very fine grained pyrite and pyrrhotite to 2%
481612	03.07	N lower road access	2.0 m composite of black graphitic argillite, disseminated very fine grained pyrite to 1% (diagenetic), mm scale white quartz - pyrite veinlets common perpendicular to bedding, bedding at 040 / 70 N
481613	03.07	N lower road access	1.0 m chip from o/c, sample of light gray and green, fine grained chloritized hornblende syenomonzonite, sheared to weak foliation, disseminated and fracture very fine grained pyrite to 0.5%, near fault? contact to hornfels
481614	03.07	N lower road access	3.0 m composite chip across well bedded light brown and buff very fine grained hornfels / bleached argillite, trace disseminated very fine grained pyrite, minor mm scale white quartz - pyrite veinlets perpendicular to bedding, bedding at 040 / 70 N
481615	03.07	N lower road access	1.0 m chip from o/c, sample of bleached light and dark gray argillite / hornfels, silty ipt, massive beds, highly fractured, trace disseminated very fine grained pyrite
481616	03.07	E/2 Croesus	1.0 m chip from road scrape, sample of black argillite, trace disseminated very fine grained pyrite, minor iron staining along fractures, rare mm scale white quartz veinlets perpendicular to bedding, bedding at 310 / 50 N
481617	03.07	E/2 Croesus	2.0 m chip from road scrape, sample of black carbonaceous argillite and interbedded light brown silty, sandy argillite, trace disseminated and fracture very fine grained pyrite, locally well iron strained along fractures
481618	03.07	E/2 Croesus	1.5 m chip from 2 m deep pit, sample of pyritic chloritized hornblende syenomonzonite in HW of fault zone, syenomonzonite is sill? along fault contact to hornfels of #619, 1% disseminated and irregular mm scale blebs of pyrrhotite and fine grained pyrite, weak fracture stockwork, includes 5 cm scale fragments of broken white quartz - pyrite vein and 30 cm scale fragments of argillite, fault at 115 / 30 N
481619	03.07	E/2 Croesus	1.0 m chip from pit wall, sample of FW light and dark gray very fine grained hornfels / argillite, disseminated and fracture very fine grained pyrite to 1%
481620	03.07	E/2 Croesus	0.1 m chip from fault zone, sample of broken and fractured white quartz - pyrite vein, pyrite is very fine and medium crystalline to 5%, vein is discontinuous over 2 m
481621	04.07	main trench	0.3 m chip across o/c, sample of dark green epidote - garnet - chlorite skarn with 10% very fine grained pyrrhotite and pyrite, trace fine grained dark brown sphalerite and chalcopyrite, hydrozincite very common on oxidized surface, skarn is conformable to limestone bedding at 300 / 35 N
481622	04.07	main trench	5.0 m composite chip across subcrop and o/c, sample of massive bedded white, dark gray and black banded fine crystalline limestone / marble, clean
481623	04.07	main trench	1.0 m composite chip across o/c, sample of light gray, white fine to medium quartz pebble limestone conglomerate, rounded mm scale pebbles to 20%, light gray and light green calcareous matrix, matrix supported, minor limonite and ankerite fracture coatings and mm scale veinlets
481624	04.07	main trench	very select grab from subcrop, sample of pyrite - white quartz vein up to 10 cm wide, discontinuous over 1 m, veins is broken in pyrrhotite - pyrite chloritized hornblende syenomonzonite
481625	05.07	Johannesberg N	select grab from dump of 3+ m deep caved decline, sample of dark and light gray and light brown, very fine grained hornfels, trace disseminated pyrite
481626	05.07	Johannesberg N	select grab from same dump as #625, sample of dark green chlorite - epidote - red garnet skarn with bands of very fine crystalline pyrrhotite to 10%, skarned VMS horizon?, 1% of dump material
481627	05.07	Johannesberg N	composite grab from dump of 5+ m deep water filled shaft, sample of cm scale banded pyrrhotite, pyrite and chalcopyrite massive sulphide, "banded" VMS is part of interbedded black argillite and light and dark gray silty and sandy (quartzose) argillite series - turbidites?

Mt. Allwood Project: Bombini Option

481628	05.07	Johannesberg N	1.0 m chip from cat scrape across bedding at 070 / 70 N, sample of heavy iron stained light gray phyllite and black argillite, trace disseminated and fracture pyrite
481629	05.07	Johannesberg tunnel	0.0 - 1.0 m chip in HW of fault contact, sample of massive, very fine grained pyrrhotite (70%), in dark green chlorite - red brown garnet skarned VMS, mm scale chalcopyrite stringers to 1% and as rims around garnets, 5% rounded glassy quartz eyes in matrix
481630	05.07	Johannesberg tunnel	1.0 - 2.0 m chip across tunnel back, sample of dark gray - green, silicified? hornfels or skarned argillaceous quartzite?, with mm scale stringers of dark green chlorite and pyrrhotite to 30%, quartzite is brecciated in part with very fine grained pyrrhotite matrix, mm scale stringers of chalcopyrite to 0.5%, rare mm scale red brown garnet stringers and bright green epidote "knots"
481631	05.07	Johannesberg tunnel	2.0 - 3.0 m chip across breast of tunnel, sample of interbedded dark gray quartzite and dark and light gray silty argillite / hornfels / skarn, rare red brown garnets in matrix, disseminated and fracture pyrrhotite to 5%, trace mm scale chalcopyrite stringers
481632	05.07	Johannesberg N/2	grab from dump of caved adit in heavy forest area, sample of black very fine grained argillite and phyllite, mm scale interbeds and laminae of siliceous bands, minor mm scale limonite and ankerite veinlets, trace disseminated very fine grained pyrite
481633	06.07	Croesus central	0.5 m chip across shear zone contact exposed in 2 m deep pit, sample of highly fractured, red brown and gray fine grained chloritized hornblende syenomonzonite and sheared, dark gray fine crystalline argillaceous marble, 1% disseminated and fracture pyrite in fault zone at 340 / 40 W
481634	06.07	Johannesberg N/2	1.0 m chip across o/c in shallow 1 m deep pit, sample of heavy iron stained black argillite and fractured gray fine grained chloritized hornblende syenomonzonite, mm stringers of very fine grained pyrrhotite and pyrite to 3%, irregular mm scale blebs of chalcopyrite to 0.5%, fault contact at 290 / 90

481651	05.07	Johannesberg tunnel	3.0 - 4.0 m (1.0 m) from portal of open cut to adit, sample of iron stained, fine grained, chloritized hornblende syenomonzonite, disseminated and fracture very fine grained pyrite to 1%, blocky jointed
481652	05.07	Johannesberg tunnel	4.0 - 5.0 m (1.0 m) from portal of open cut to adit, sample of iron stained, fine grained, chloritized hornblende syenomonzonite, disseminated and fracture very fine grained pyrite to 1%, blocky jointed, minor gouge at fault contact to hornfels at adit
481653	06.07	Croesus main trench	2.0 m chip across o/c, sample of buff and dark gray, very fine grained, silty, argillaceous limestone and fine crystalline marble, no visible sulphides
481654	06.07	Croesus main trench	0.5 m chip from western end of cat scrape, sample of dark green - gray, massive very fine grained pyrrhotite in chlorite matrix, VMS horizon?, pyrrhotite to 40%, trace chalcopyrite stringers
481655	06.07	Croesus main trench	2.0 m chip across large fault zone in main trench, sample of dark green and light and dark brown, iron stained, brecciated hornblende syenomonzonite, massive pyrrhotite and minor fragments of dark green basalt dyke, fault at 050 / 30 N
481656	06.07	Croesus E/2	2.0 m chip from o/c, sample of light and dark gray banded silty argillite and argillite, minor quartzose bands on 5 cm scale, larger o/c below in 10 m deep draw of argillaceous quartzite and silty quartzite, massive bedded, minor iron staining
481657	06.07	Tangle foot E/2	grab sample from cat scrape and subcrop, sample of heavy iron stained, highly fractured light gray argillite, silty in part, trace disseminated very fine grained pyrite
481658	06.07	Johannesberg N/2	1.5 m chip from shallow small pit, sample of heavy iron stained, intensely fractured, and sheared black argillite, disseminated and cm scale stringers of very fine grained pyrite to 3%, fault at 280 / 90
481659	06.07	Johannesberg N/2	select grab from small dump of #658, sample of white quartz - pyrite vein up to 30 cm wide, disseminated and irregular cm scale blebs of dull yellow pyrite to 2%
481660	06.07	Johannesberg N/2	1.0 m chip of heavy iron stained, intensely fractured, and sheared black argillite, disseminated and cm scale stringers of very fine grained pyrite to 3%, fault at 280 / 90

Mt. Attwood Project: Mt. Attwood area Rock Sample Descriptions

sample	coll'd	location	description
481701	07.07	Attwood W/2	2.0 m chip across road cut of black, dark green and red brown weathering, fine grained serpentinite, moderately well developed foliation, disseminated fine grained magnetite to 0.5%
481702	07.07	Attwood W/2	0.5 m chip across road cut of apple green, fibrous, fine to medium grained serpentinite, very fine grained black and dark green chloritic matrix, disseminated fine grained magnetite to 0.5%
481703	07.07	Attwood W/2	2.0 m chip across road cut of apple green, red brown weathering, fibrous, fine to medium grained serpentinite, very fine grained black and dark green chloritic matrix, disseminated fine grained magnetite to 0.5%
481704	07.07	Attwood W/2	3.0 m composite chip across road cut, sample of dark and light green, very fine grained andesite, siliceous greenstone, trace disseminated very fine grained pyrite
481705	07.07	Attwood W/2	select grab from dump of shallow pit, sample of white quartz - pyrite vein up to 30 cm wide, disseminated and fracture fine to very fine grained pyrite to 2%
481706	07.07	Attwood W/2	select grab from same dump as #705, sample of iron stained dark gray and black argillite, locally intensely fractured along fault zone at 070 / 65S, trace disseminated very fine grained pyrite
481707	07.07	Attwood W/2	select grab from same area as #705, 706, sample of iron stained black and dark gray argillite with cm scale interbeds of white and iron stained quartz pebble conglomerate, trace disseminated very fine grained pyrite in argillite, bedding in pit wall at 320 / 30E
481708	08.07	Attwood W/2	3.0 m composite chip from road cut, light and dark gray, black, argillite, silty argillite and siliceous tuffaceous argillite?, cm scale interbeds at 110 / 40N
481709	08.07	Attwood W/2	1.5 m chip from road cut, sample of light and dark gray, black, argillite, silty argillite and siliceous tuffaceous argillite?, trace disseminated very fine grained pyrite in argillite, minor iron stain, cm scale interbeds at 110 / 40N
481710	08.07	Attwood W/2	1.5 m chip from road cut, sample of light gray and black banded, fine crystalline marble / limestone, and argillaceous limestone, no visible sulphides
481711	08.07	Attwood W/2	2.5 m chip from road cut, black, very fine grained argillite, footwall to limestone, iron stain common throughout, disseminated very fine grained pyrite to 0.5%
481712	08.07	Attwood central	2.0 m composite chip over cat scrape, sample of iron stained, bleached white and light brown, very fine grained tuffaceous argillite, disseminated and fracture pyrite to 0.5%
481713	08.07	Attwood central	1.0 m composite chip over road cut, sample of white, light gray and black banded, fine crystalline marble / limestone, minor argillaceous partings, cm scale banding at 110 / 40N - overturned here?
481714	08.07	Attwood central	2.0 m composite chip from ridge o/c, sample of light and dark gray, light green, quartz and limestone pebble conglomerate, mm to cm scale rounded pebbles to 40% in very fine grained limy tuffaceous? matrix, no visible sulphides
481715	09.07	Attwood N/2	1.5 m chip across cat scrape, sample of iron stained, pyritic black and light gray argillite and tuffaceous argillite, disseminated very fine grained pyrite to 0.5%, rare cm scale white quartz - pyrite veinlets at 1 / m
481716	09.07	Attwood N/2	1.5 m composite chip across wall of shallow pit, sample of light and dark gray - green, siliceous tuffaceous argillite, disseminated very fine grained pyrite to 0.5%, HW to fault zone filled with broken discontinuous white quartz vein at 345 / 90
481717	09.07	Attwood N/2	select grab from dump of shallow pit, sample of bleached, white and light brown, iron stained, very fine tuff, disseminated and open fracture very fine grained pyrite to 0.5%
481718	09.07	Attwood N/2	1.0 m chip from o/c, near shallow pit on same rock type, sample of iron stained, highly fractured, chert and argillite pebble conglomerate, mm - cm scale rounded pebbles to 70% in siliceous argillaceous matrix, clast supported, trace disseminated very fine grained pyrite
481719	09.07	Attwood N/2	3.0 m composite chip across cat scrape, sample of iron stained, light and dark gray, very fine grained siliceous argillite and argillite, disseminated pyrite to 1%, mm scale open fractures lined with fine grained pyrite
481720	09.07	Attwood central	2.0 m composite chip from road cut, sample of black and dark green, fine grained serpentinite, minor mm scale ankerite veinlets, disseminated very fine grained magnetite to 0.5%, area of Au in soils geochem (assessment report 8255)

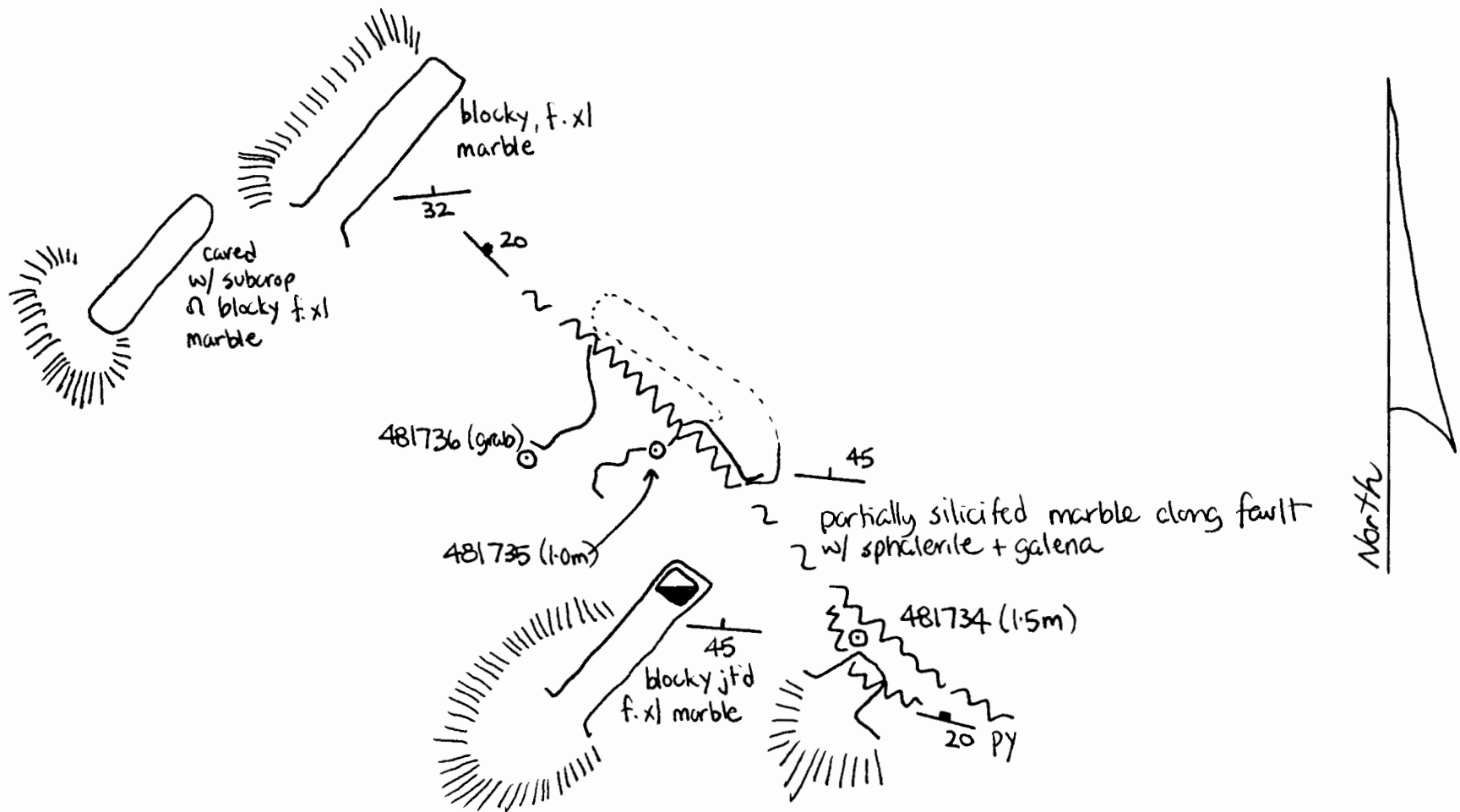
Mt. Attwood Project: Mt. Attwood area

481721	09.07	Attwood central	2.0 m composite chip across subcrop, sample of black argillite, moderately iron stained, trace disseminated and fracture very fine grained pyrite, HW to serpentinite filled thrust fault?
481722	09.07	Attwood central	2.0 m composite chip across overgrown road, road cut, sample of light and dark gray and white banded, medium to coarse crystalline marble / limestone, banding at 110 / 30 N, no visible sulphides
481723	09.07	Rattler pit	2.0 m chip across wall of 8 m long open cut, sample of iron stained, dark and light gray, very fine grained tuffaceous argillite and interbedded silty argillite, trace disseminated very fine grained pyrite, HW to "Rattler Fault"
481724	09.07	Rattler pit	0.3 m chip across "Rattler Fault" in wall of pit, sample of red - brown fine grained pyrite - clay gouge, fault zone at 355 / 70 E
481725	09.07	Rattler pit	2.0 m chip across FW of "Rattler Fault", sample of dark and light gray banded argillite, disseminated and fracture very fine grained pyrite to 1%
481726	09.07	Rattler N/2	select grab from dump of shallow trench, sample of bleached, light brown and white, very fine grained tuffaceous argillite / argillaceous tuff?, interbedded with minor light gray argillite, disseminated and open fracture coating very fine grained pyrite to 1%
481727	09.07	Rattler N/2	select grab from dump of shallow trench, sample of iron stained, light gray, fine grained chloritized hornblende granodiorite, disseminated very fine grained pyrite to 0.5%, dyke? in fault zone at 320 / 90
481728	09.07	Rattler S/2	1.0 m chip from road cut / cat scrape, sample of light and dark green, light and dark gray, very fine grained siliceous tuff, trace fracture fine grained pyrite, mm scale laminae "welded, in part, at 295 / 40 N
481729	09.07	Sunnyside N/2	1.0 m chip from road cut, sample of interbedded black argillite and siliceous argillaceous tuff, minor iron staining, cm to 5 cm scale beds at 285 / 70 N
481730	10.07	Sunnyside S/2	1.0 m chip from old trench, sample of iron stained, dark gray - brown, very fine grained argillite / hornfels, disseminated and fracture pyrite to 1%
481731	10.07	Sunnyside S/2	1.0 m composite chip across massive o/c, sample of white, very fine grained to microcrystalline quartz, silicified zone along Mt. Attwood Thrust?, quartz is up to 10 m thick and 40 m long with slickensides at 330 / 25 S
481732	10.07	Attwood Central	2.0 m composite chip across road cut, sample of black and white banded, fine crystalline marble, banding on cm scale at 100 / 80 N, no visible sulphides
481733	10.07	Attwood Central	select chip from subcrop along road and FW to limestone of #732, sample of heavy iron stained, pyritic black argillite, fractures lined with fine grained pyrite to 1%
481734	10.07	Sunnyside showing	1.5 m chip across wall of shallow open cut, sample of partially silicified, light gray, fine - medium crystalline marble, trace disseminated very fine grained pyrite, blocky jointed and 20 - 50 cm thick, massive beds at 280 / 45 N,
481735	10.07	Sunnyside showing	1.0 m chip across wall of shallow open cut, sample of light gray, fine crystalline, partially silicified limestone with disseminated and cm scale blebs of galena and sphalerite, minor ankerite veinlets, replacement and silicification along fault zone at 310 / 20 N?
481736	10.07	Sunnyside showing	very select grab from dump of shallow open cut, sample of "high grade" galena, sphalerite and pyrite in light gray, fine crystalline, partially silicified limestone, galena to 5%, sphalerite to 2%, pyrite to 2%
481737	10.07	Fanny Joe	select grab from creek float, sample of light and dark gray, very fine grained, silicified and weakly skarned marble, mm scale euhedral red - brown garnets "shot" through rock to 0.5%, trace disseminated and fracture very fine grained pyrite
481738	10.07	Fanny Joe	2.0 m composite chip from overgrown road cut, sample of iron stained, black argillite, disseminated and open fracture coating very fine grained pyrite to 1%, FW to silicified limestone?
481739	11.07	Mt. Attwood W/2	select grab from shallow, water filled decline, sample of red - brown, iron stained black argillite / phyllite, highly deformed Knob Hill rocks, hematite stain common on fractures, cm scale white quartz "sweats" common, trace disseminated very fine grained pyrite
481740	11.07	Mt. Attwood	2.5 m chip across wall of shallow open cut, sample of light gray, fine crystalline marble, massive bedded on 30 - 50 cm scale, minor argillaceous partings, HW to massive sulphide lenses of #741
481741	11.07	Mt. Attwood	select grab from dump of #740, sample of massive very fine grained pyrrhotite in dark green chlorite matrix, pyrrhotite to 80%, very fine grained pyrite to 2%, trace chalcopyrite and dark brown sphalerite?
481742	11.07	Mt. Attwood	2.0 m composite chip across o/c, sample of iron stained, light green - gray, very fine grained argillaceous tuff / tuffaceous argillite, trace disseminated and fracture pyrite, FW to massive sulfide of #741

Mt. Attwood Project: Mt. Attwood area

sample	col'd	location	description
481743	17.07	Fanny Joe	0.5 m chip from o/c, sample of light and dark gray, very fine crystalline, partially silicified, calc silicate banded marble, trace disseminated, very fine grained pyrite, rare mm scale "scattered" red brown euhedral garnets
481744	17.07	Fanny Joe	select grab from cat scrape, sample of buff, light gray and pink, very fine grained, calc-silicate banded skarn and hornfels, trace disseminated very fine grained pyrite
481745	17.07	Fanny Joe	1.0 m chip from o/c, sample of light and dark gray, black banded, fine to medium crystalline marble, light green calc-silicate bands on cm scale to 5% of o/c, no visible sulphides
481746	17.07	Fanny Joe	1.0 m chip from o/c, sample of black and light and dark gray banded, fine crystalline, carbonaceous marble / limestone, no visible sulphides

Mt. Attwood Project: Mt. Attwood area			
481751	07.07	Attwood W/2	1.0 m chip across glaciated o/c, sample of dark green, black, very fine grained serpentinite, disseminated, very fine grained magnetite to 0.5%
481752	08.07	Attwood W/2	2.0 m composite chip from road cut, sample of dark green, black, and apple green, sheared, fine grained, serpentinite, minor iron staining along slickensides and along foliation
481753	08.07	Attwood W/2	2.0 m composite chip across o/c, sample of bleached, light gray, white, fine to medium grained tuff fragmental, trace disseminated very fine grained pyrite, weak open fracture stockwork with fine crystalline quartz lining fractures, iron stain common
481754	08.07	Attwood W/2	1.0 m chip across ridge forming o/c, sample of dark green and black, and bright apple green, fine grained serpentinite, disseminated very fine grained magnetite to 0.5%
481755	08.07	Attwood Central	2.0 m composite chip across o/c, sample of iron stained, dark green, very fine grained greenstone / andesite?, minor mm scale calcite veining, trace fracture pyrite
481756	08.07	Attwood Central	3.0 m composite sample across o/c, sample of black argillite, iron stained throughout, bedding at 300 / 40 N, overturned shown by good graded bed sequences, fining upwards, on cm and mm scale
481757	08.07	Attwood Central	2.0 m composite across subcrop, sample of iron stained, intensely fractured, black argillite and argillite chip conglomerate, mm scale open fractures lined with fine crystalline quartz and jarosite?, fractures common at 5 / 10 cm
481758	10.07	Attwood S/2	1.0 m chip across cat scrape / trench, sample of heavy iron stained, light gray - brown, very fine grained, argillaceous tuff, fragmental tuff, medium - fine grained pyrite disseminated and on open fractures to 2%, minor dark green crystalline chlorite on mm scale open fractures
481759	10.07	Attwood S/2	1.0 m chip across cat trench, sample of heavy iron stained, pyritic, very fine grained tuff, argillite and hornfels, mm scale pyrite filled fractures common, pyrite to 3%
481760	10.07	Attwood Pass	1.0 m composite chip across subcrop, sample of limonite / goethite stained, black and dark green, bright apple green, fine grained serpentinite, intensely sheared in "splay" of Mt. Attwood Thrust, disseminated very fine grained magnetite to 0.5%, trace disseminated very fine grained pyrite
481761	10.07	Sunnyside S/2	2.0 m composite chip across o/c, sample of light and dark gray, black and white, fine crystalline marble, argillaceous limestone and interbedded siliceous tuff, minor iron stain, minor cm scale calcite veining
481762	10.07	Attwood Central	2.0 m chip across road cut. sample of iron stained, highly fractured, light and dark gray, black argillite, disseminated and fracture very fine grained pyrite to 1%, minor mm scale drusy quartz veins parallel to bedding at 100 / 80 N
481763	10.07	Fanny Joe	1.0 m chip from overgrown road cut, sample of silicified, light gray - green, calc-silicate banded, very fine crystalline, limestone / marble, irregular, mm scale clear quartz stringers with very fine grained pyrite common, disseminated very fine grained pyrite to 0.5%, trace galena blebs?
481764	10.07	Fanny Joe	3.0 m composite chip across road cut, sample of pervasively silicified, cryptocrystalline limestone, trace disseminated very fine grained pyrite, rare open fractures with pyrite linings, iron stain common
481765	11.07	Attwood N/2	2.0 m composite chip across cat scrape, sample of bleached, light brown. white, very fine grained and intensely fractured, argillaceous tuff, iron stained throughout, trace disseminated very fine grained pyrite
481766	11.07	Attwood Central	2.0 m chip across o/c, sample of intensely sheared and fractured, black graphitic argillite and argillaceous limestone, cm scale open fractures lined with fine crystalline quartz, no visible sulphides, minor iron stain, fault zone at 305 / 80 N
481767	11.07	Mt. Attwood	select grab from dump of large shallow pit, sample of light and dark gray, very fine crystalline, marble limestone, partially silicified, trace disseminated and fracture very fine grained pyrite and dark brown sphalerite?, cm scale ankerite veining common
481768	11.07	Mt. Attwood	2.0 m chip across wall of shallow open cut, sample of highly fractured and sheared, partially silicified, fine crystalline marble, fault zone at 110 / 25 N and parallel top bedding
481769	11.07	Mt. Attwood	0.5 m chip across resistant ledge o/c, sample of orange - brown, light gray and white, fine crystalline limestone, highly sheared and fractured, cm scale coarse crystalline calcite veining common, mm scale ankerite veining common, trace disseminated galena?



KITTLE RIVER RESOURCES LTD.
 MT ATTWOOD PROJECT

SUNNYSIDE CG.
 detail geology/rock samples
 1:200
 July 1996

to SUNNYSIDE SWAMP ~ 300m

x x x
x x x
x x x
siliceous greenstone
phyllite

air photo linear

North

481767 (grab)
red brown calcite
ankerite v'n'd f. xl
marble w/ trace
disseminated i fracture
pyrite i sphalerite

cored

cored

25
481768 (2.0m)
10-15 cm bedded
f. xl marble,
partially silicified?
trace disseminated i
fracture pyrite

481769 (0.5m)
sheared, calcite, ankerite
v'n'd f. xl marble

40
481741 (grab)
massive po, py

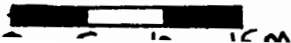
481740 (2.5m)
blocky lt gy marble
highly fractured

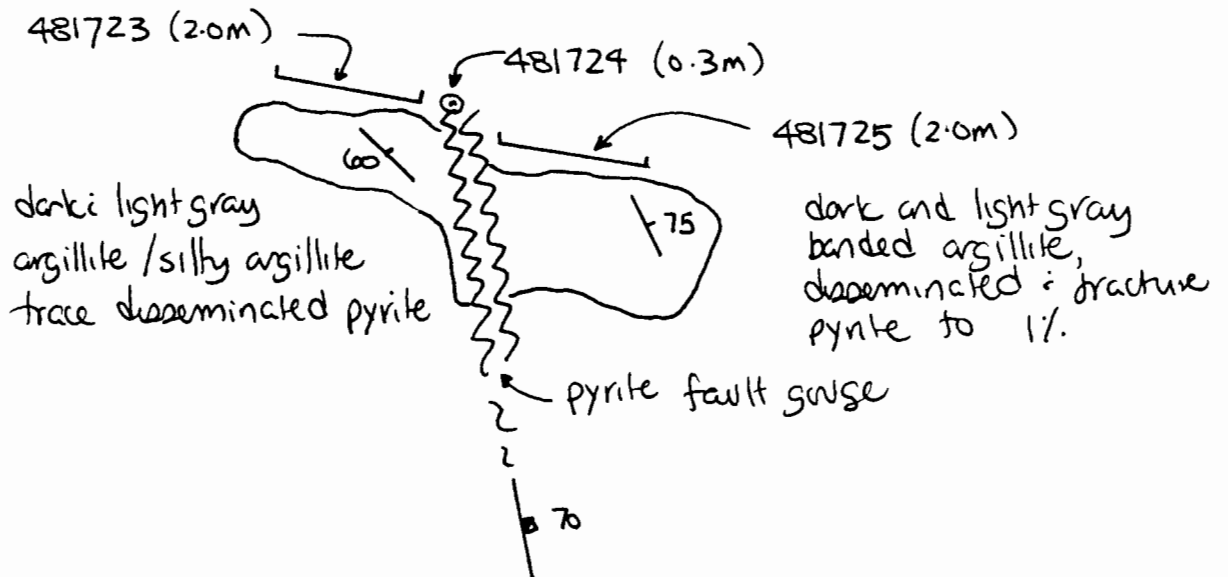
481472 (1.0m)
bleached, lt brown
pyritic tuff

KETTLE RIVER RESOURCES LTD
MT ATTWOOD PROJECT
MT ATTWOOD S/2 AREA (SOUTH SUNNYSIDE)
detail geology i rock samples

1:500

July 1996





KETTLE RIVER RESOURCES LTD.
MT ATTWOOD PROJECT
Battler C.G.

detail geology / rock samples

1:100 0 1 2m July 1996

APPENDIX 3

Cost Statement

COST STATEMENT

Labour:

B. Kyba	10 days @ \$500/day	\$ 5,000.00
K. Kyba	10 days @ \$100/day	1,000.00
L. Caron	3 days @ \$250/day	<u>750.00</u>
		\$ 6,750.00

Geochemical Analyses

31 element ICP, plus Au Min-En Labs, Vancouver.

159 rock samples @ \$20.50 (including shipping)	3,259.50
5 assays @ \$8.00	<u>40.00</u>
	\$ 3,299.50

Supplies

General Field Supplies	\$ 130.00
	<u>\$ 130.00</u>

Transportation

Vehicle rental 8 days @ \$50/day	\$ 400.00
Fuel	<u>120.00</u>
	\$ 520.00

Office Expenses

Phone, fax	\$ 10.00
Copying maps and report	75.00
Drafting and office supplies	<u>125.00</u>
	\$ 210.00

TOTAL: =====
\$10,909.50

APPENDIX 4

Statement of Qualifications

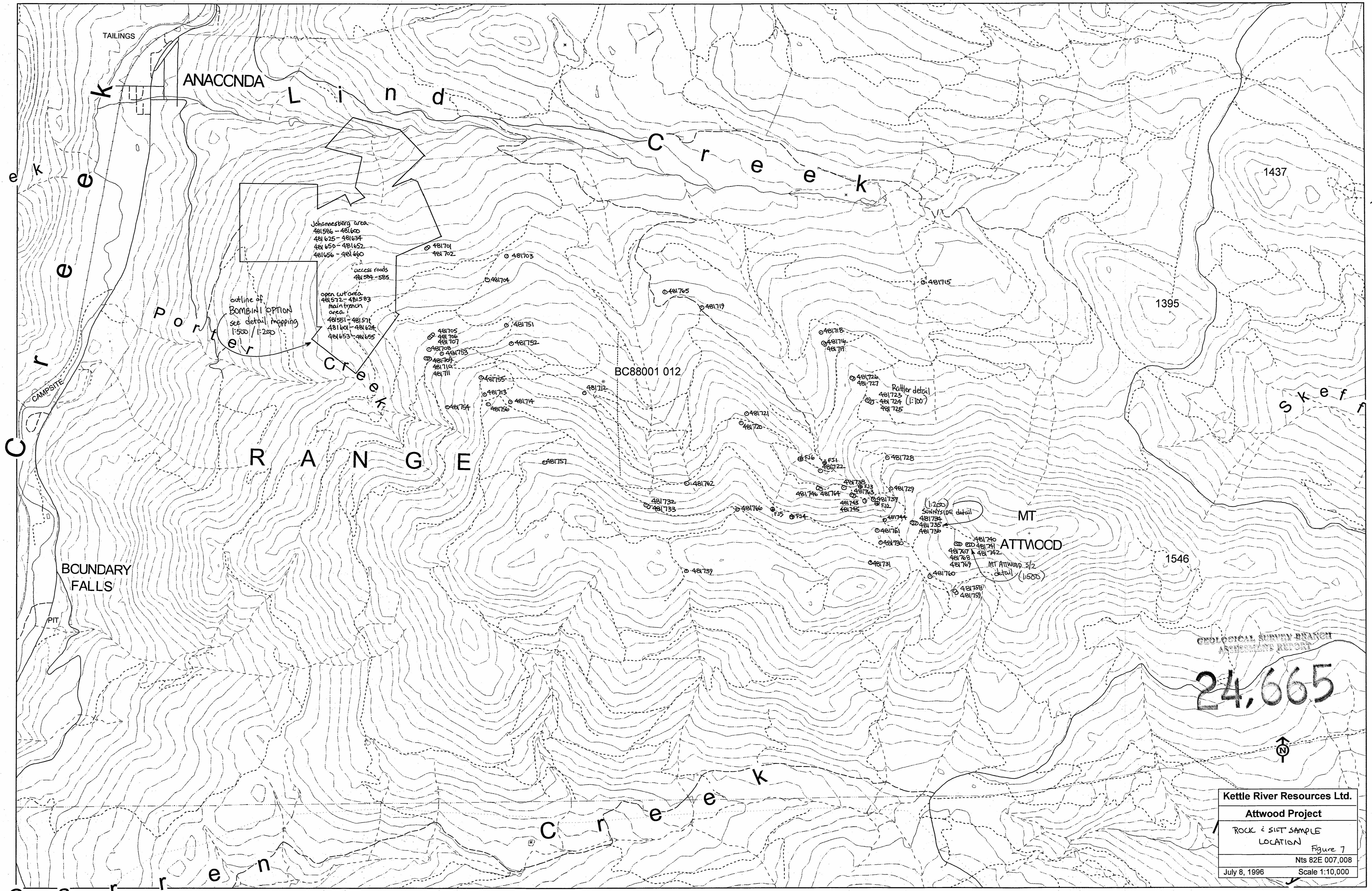
STATEMENT OF QUALIFICATIONS

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 Oct 28/96

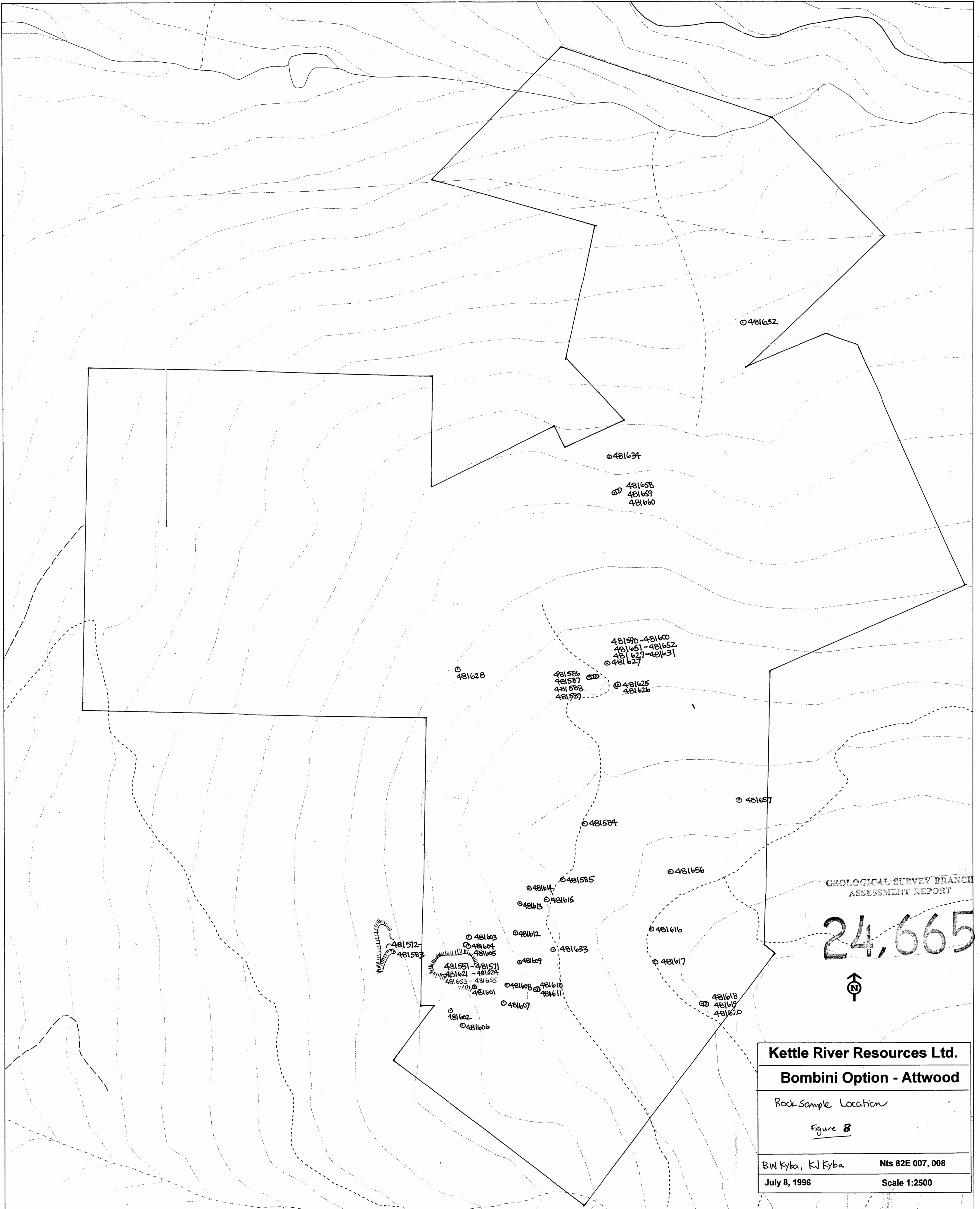
Linda Caron, P. Eng.



GEOLOGICAL SURVEY BRANCH
ALBERTA REPORT

24,665

Kettle River Resources Ltd.
Attwood Project
ROCK & SIFT SAMPLE
LOCATION
Figure 7
Nts 82E 007,008
July 8, 1996 Scale 1:10,000

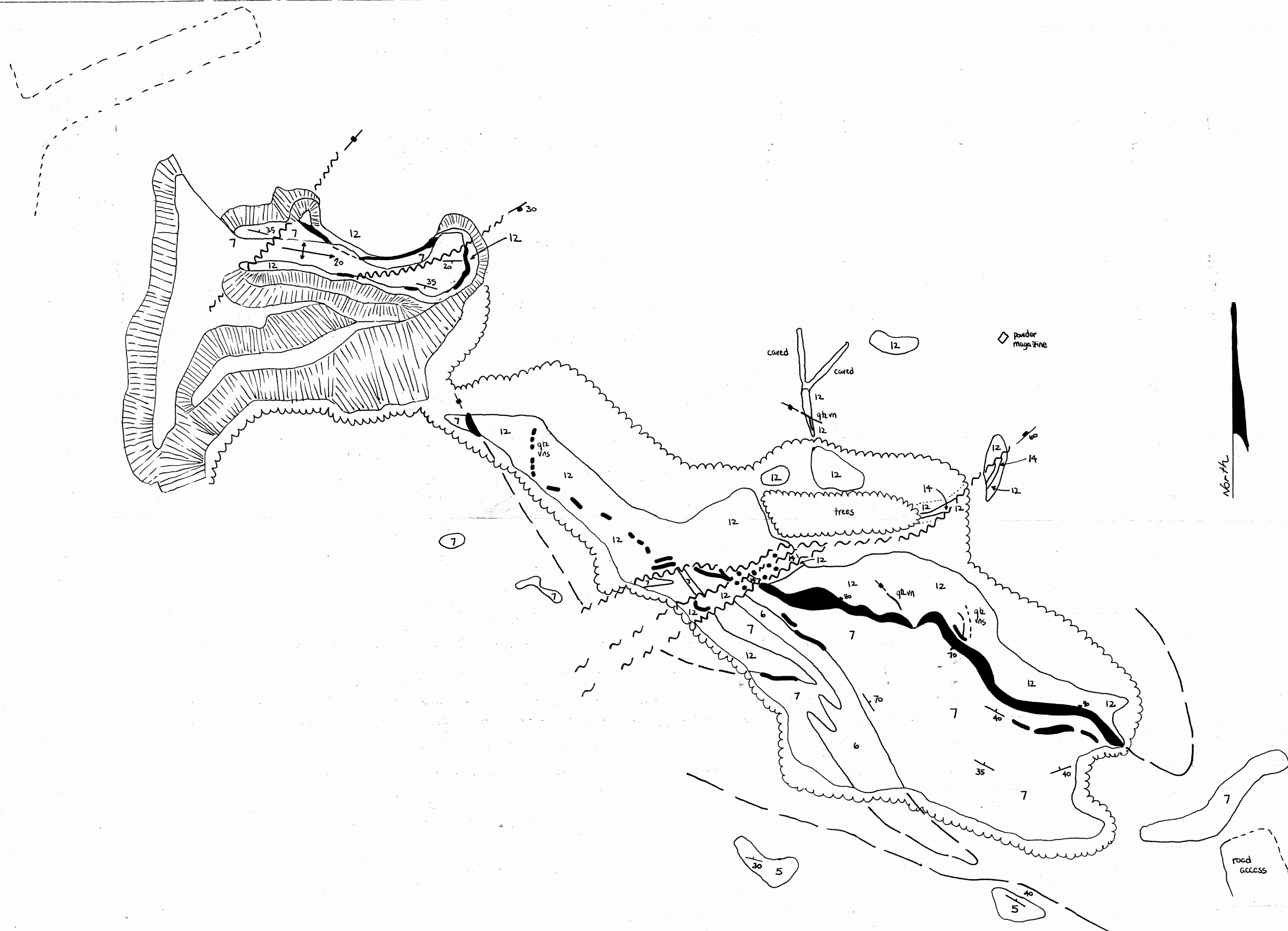


GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,665



Kettle River Resources Ltd.	
Bombini Option - Attwood	
Rock Sample Location	
Figure 8	
BW Kyba, KJ Kyba	Nts 82E 007, 008
July 8, 1996	Scale 1:2500



stratigraphic Legend : Mt Atwood Area

- | | |
|--|---|
| 11 greenstone / siliceous greenstone | 14 basalt dykes |
| 10 tuffaceous argillite / bleached tuff | 13 serpentinite |
| 9 argillite / silty argillite / sandy argillite / limy argillite | 12 hornblende quartz diorite |
| 8 tuffaceous argillite / horn fels | massive pyrrhotite, pyrite, minor chalcopyrite, sphalerite and galena |
| 7 limestone / marble / skarn | |
| 6 calcareous chert pebble conglomerate | |
| 5 black argillite | |
| 4 phyllite | |
| 3 quartzite | |
| 2 quartz - sericite / chlorite gneiss | |
| 1 black argillite | |

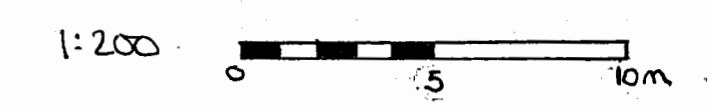
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,665

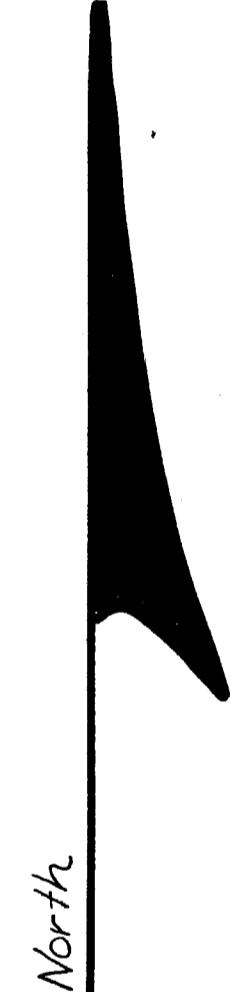
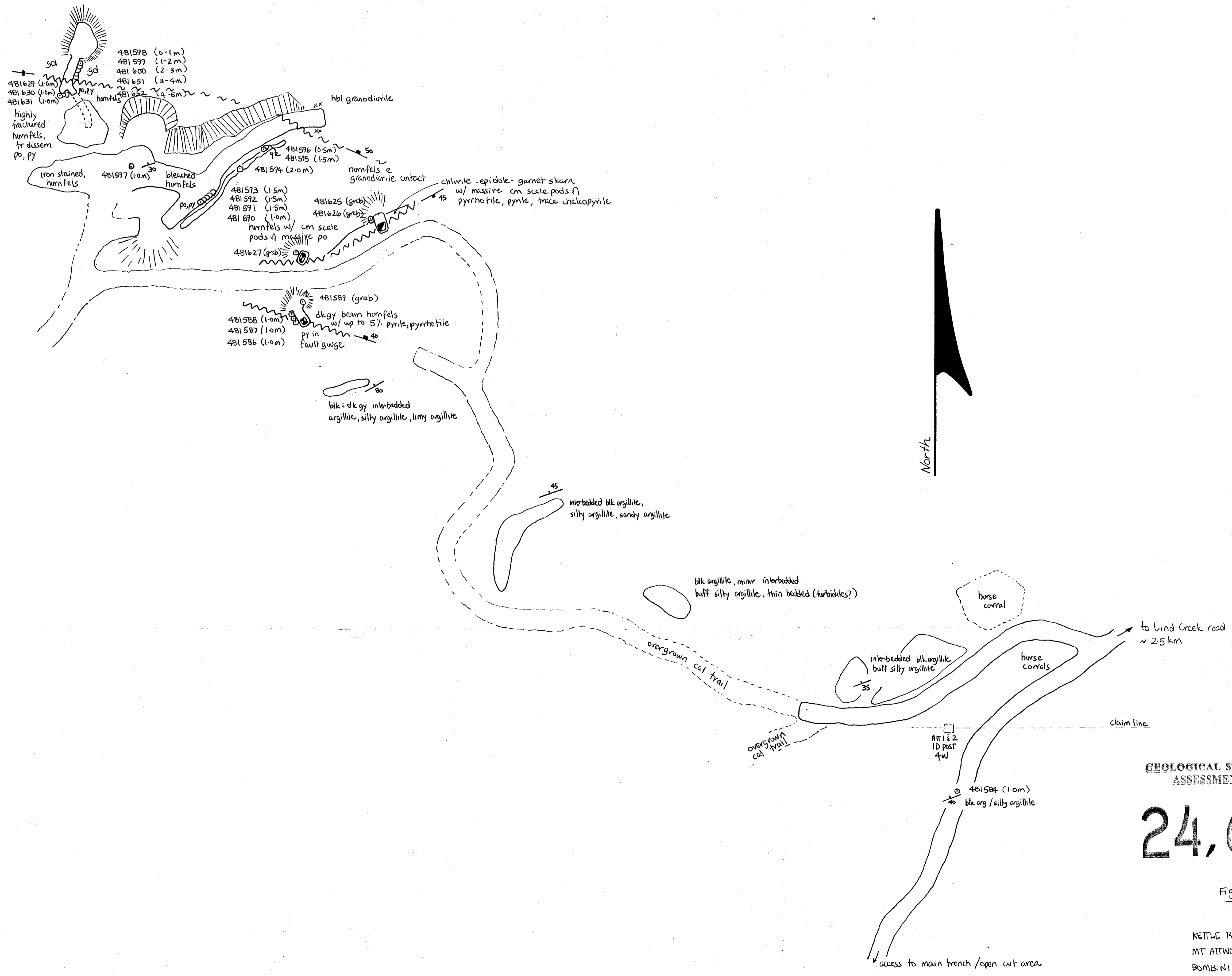
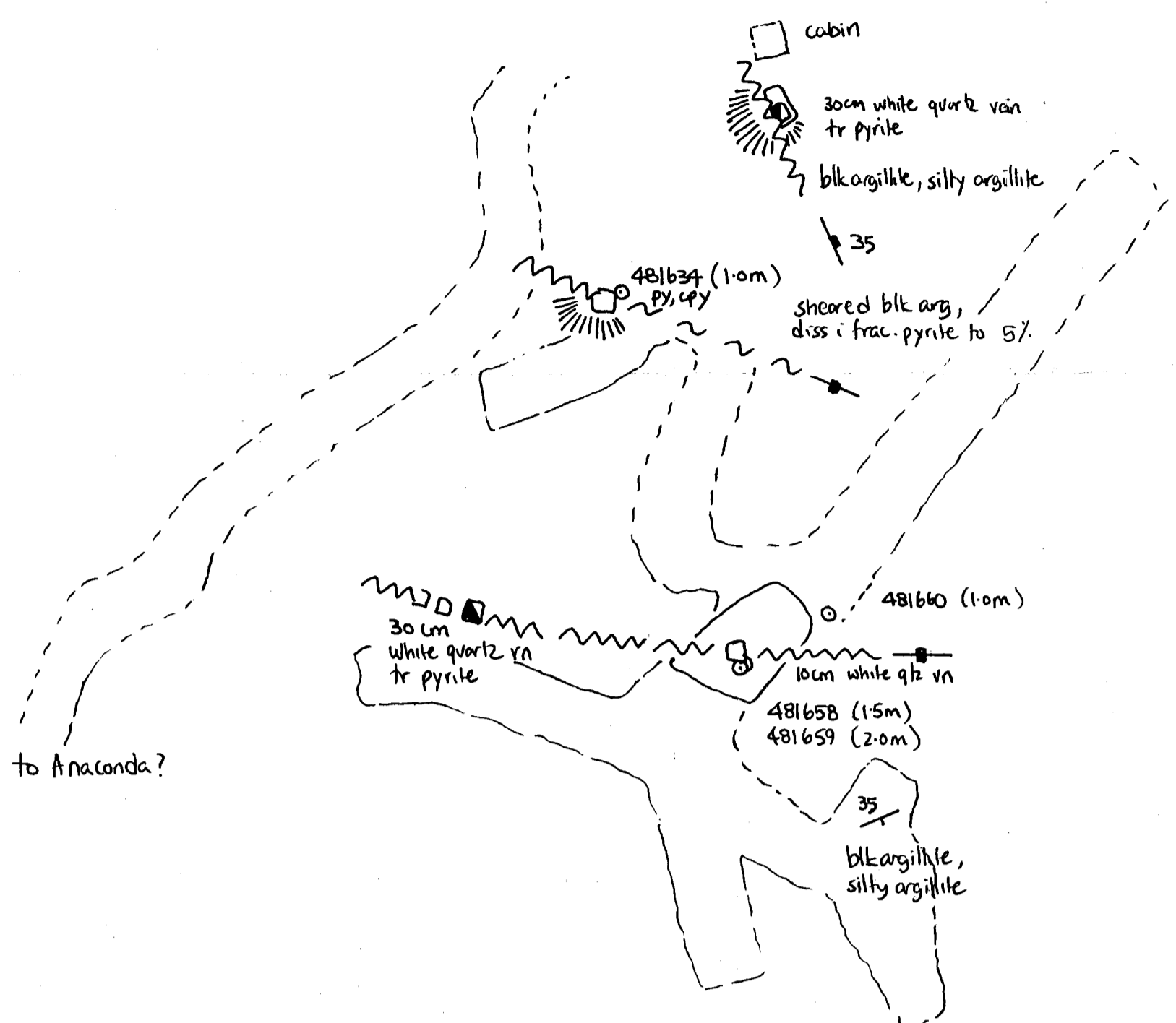
Figure 5

KETTLE RIVER RESOURCES LTD
MT ATWOOD PROJECT
BOMBINI OPTION

MAIN TRENCH and OPEN CUT
DETAIL GEOLOGY



BW Kyba, P. Geo
KJ Kyba, Geo Asst. July 1996



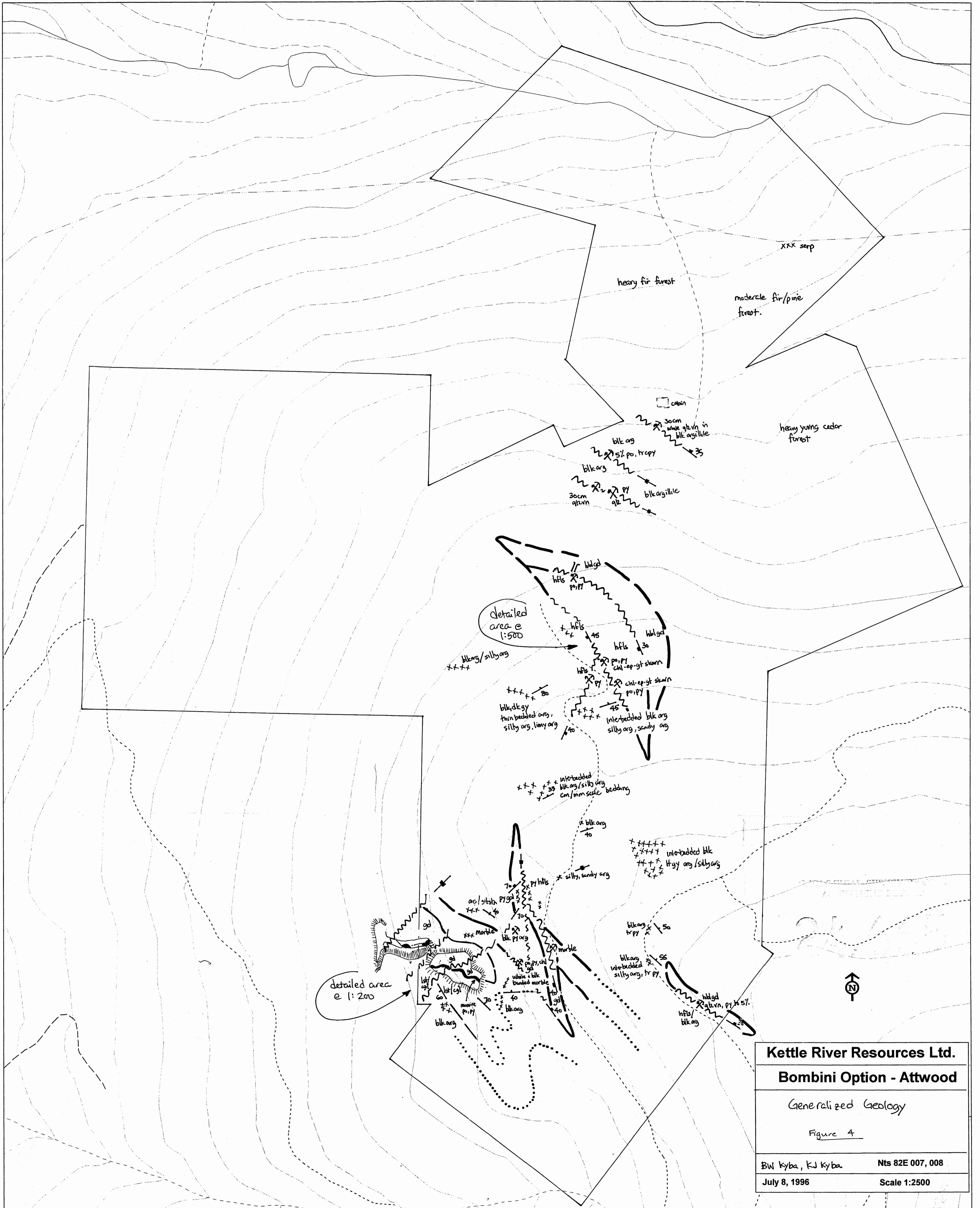
GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT

24,665

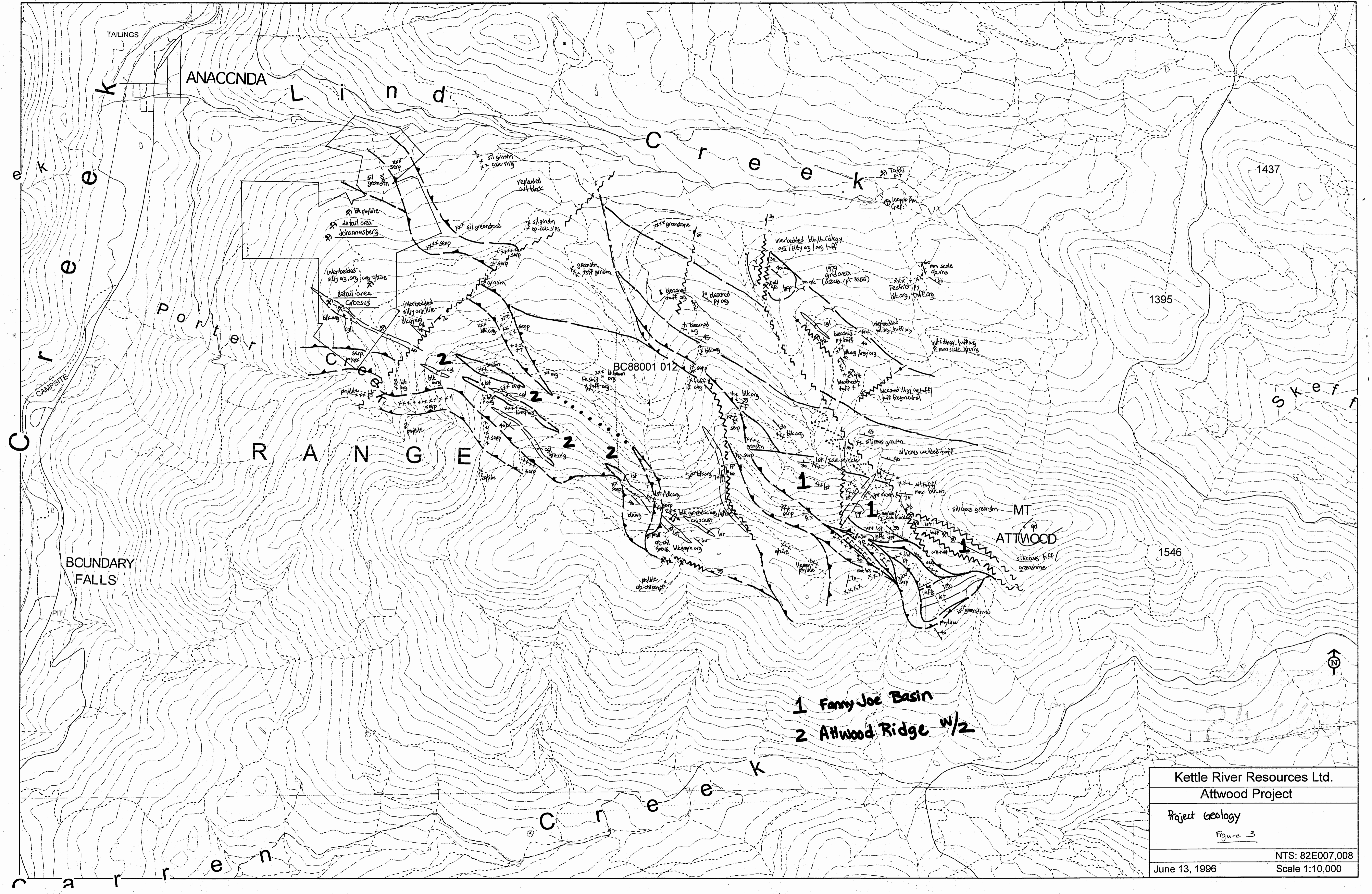
Figure 6

KETLE RIVER RESOURCES LTD
 MT AITWOOD PROJECT
 BOMBINI OPTION
 Johannesberg / Tonglefoot
 Detail Geology and
 Rock Sample Locations

1:500
 0 10 20m
 B.J. Kyle, P. Geo
 K.J. Kyle, Geostat
 July 1976



Kettle River Resources Ltd.
Bombini Option - Attwood
 Generalized Geology
 Figure 4
 BW Kyba, KJ Kyba Nts 82E 007, 008
 July 8, 1996 Scale 1:2500



Kettle River Resources Ltd.	
Attwood Project	
Project Geology	
Figure 3	
June 13, 1996	NTS: 82E007,008 Scale 1:10,000