

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS 105 G/12

1994 ASSESSMENT REPORT

BOD PROPERTY

SOIL GEOCHEMISTRY AND GEOLOGICAL MAPPING

WATSON LAKE M.D., YUKON

PELLY MOUNTAINS AREA

LAT: 61°40'

LONG: 131°46'

WORK PERIOD

JULY 20, 1994

APRIL, 1995

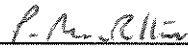
PAUL A. MacROBBIE

STATEMENT OF QUALIFICATIONS

I, Paul A. MacRobbie, of 11164 Southridge Rd., Delta, B.C. hereby declare that I:

1. Graduated from Carleton University, Ottawa, Ontario with a B.Sc. in Geology in May, 1986 and a M.Sc. in Geology in June, 1988.
2. Have been actively engaged in mineral exploration in Western Canada as a permanent geologist with Cominco Ltd. since June, 1988.
3. Am a registered member of The Association of Professional Engineers and Geoscientists of the Province of British Columbia.

Date: April 10, 1995



P.A MacROBBIE, P.Geo
GEOLOGIST



MAP NO:105G/12

ASSESSMENT REPORT: X

DOCUMENT NO: 093342

PROSPECTUS:

MINING DISTRICT: Watson Lake

CONFIDENTIAL: X

TYPE OF WORK:Geology,
geochemistry

OPEN FILE:

REPORT FILED UNDER: Cominco Ltd.

DATE PERFORMED:July 20, 1994

DATE FILED:June 23, 1995

LATITUDE:61 40

AREA:Hoole River

LONGITUDE:131 46

VALUE:\$2700

CLAIM NAME AND #:Bod 1-43

WORK DONE BY:P. MacRobbie

WORK DONE FOR:Cominco Ltd.

DATE TO GOOD STANDING	REMARKS:No mineralization or anomalies are reported from the program.

COMINCO LTD.

EXPLORATION

NTS 105 G/12

WESTERN DISTRICT



1994 ASSESSMENT REPORT

BOD PROPERTY

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APRIL, 1995

PAUL A. MacROBBIE

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FIGURE 2 CLAIM MAP (1:10,000)

FIGURE 3 GEOLOGY and GEOCHEMISTRY MAP (1:10,000)

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 2700

M. Burke

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

1994 ASSESSMENT REPORT
BOD PROPERTY, YUKON TERRITORY

1. SUMMARY

The BOD property is located west of the Hoole River on the Yukon Plateau, approximately 50 kms southeast of Ross River.

The property was staked to cover airborne geophysical targets identified during a Cominco survey conducted in early 1994.

The rocks underlying this part of southeastern Yukon have been assigned to 2 terranes: the Yukon-Tanana Terrane (YTT) and the Slide Mountain Terrane (SMT). The YTT consists primarily of a layered sequence of metamorphosed rocks comprising a "lower unit" of pre-Devonian quartzite, pelitic schist and minor marble, a late Devonian to mid-Mississippian "middle unit" comprising carbonaceous phyllite and schist with interbanded mafic and, locally significant, felsic metavolcanics, and an "upper unit" of Pennsylvanian marbles and quartzite. Volcanism within the "middle unit" was accompanied by the intrusion of 2-3, late Devonian to Mississippian, mafic to felsic metaplutonic suites. Felsic volcanics of the middle unit are host to Cominco's ABM VHMS deposit.

The property appears to be underlain by rocks correlated to mixed sediments/mafic volcanics of the "middle unit".

Outcrop exposure on the property is very poor. In the central part of the property, float and subcrop of locally silicified and often Fe-carbonate altered/veined chloritic phyllites/schists (mafic volcanics and associated sediments?) are present. Dark grey wacke intervals typically contain trace to 25% blue quartz crystals. The area immediately southwest of an AEM conductor contains abundant float of locally Fe-carbonate-quartz veined, dark grey to black, variably carbonaceous phyllite. Soil geochemistry revealed no anomalies of interest.

No felsic volcanics or base metal mineralization was found on the property. The carbonaceous phyllitic unit may explain the broad AEM conductor. A second AEM conductor has a character which also suggests a lithological or structural control. No further work is recommended.

2. LOCATION AND ACCESS

The BOD property is located northeast of the Tintina Fault, on the Yukon Plateau west of the Hoole River, approximately 50 kms southeast of Ross River (Figures 1 and 2). The gravel, all-weather Robert Campbell Highway provides access to within 10 kms of the property. Direct access is by helicopter.

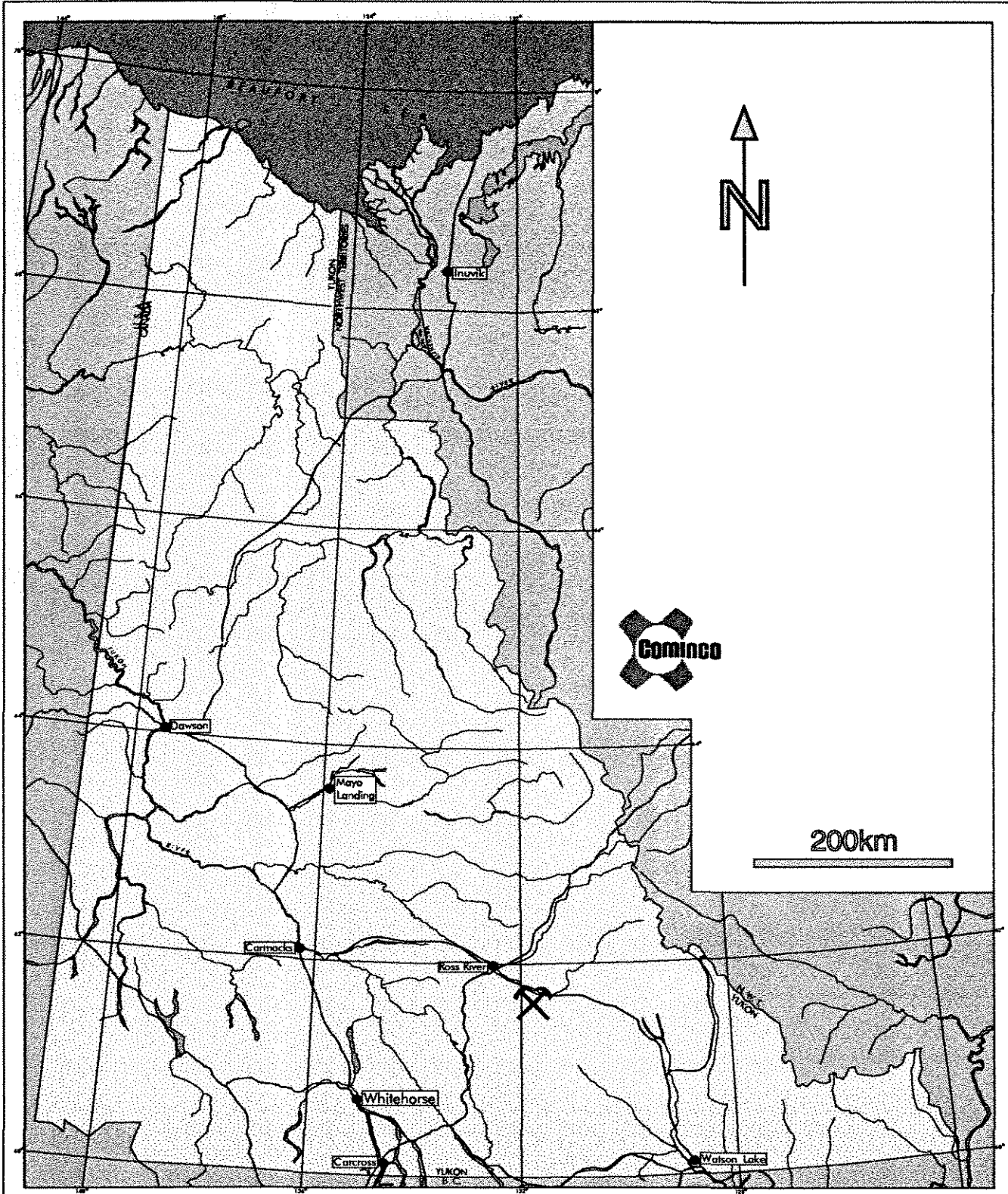
3. PROPERTY AND OWNERSHIP

The BOD property, totalling 43 units due June 22, 1995 (Figure 2), are 100% owned by Cominco Ltd.

<u>NAME</u>	<u>UNITS</u>	<u>CLAIM NO.</u>	<u>DUE DATES</u>
BOD 1-43	43	YB49744-9786	June 22/95

4. PREVIOUS WORK

No previous work by Cominco has been done in the immediate property area. The property area was previously staked (Minfile #45; Starr) by Newmont in 1963 and then again by Imperial Metals Corp. in 1988 apparently on the basis of aeromagnetics(?). No work was recorded.



Drawn by:		Traced by: a. m. a.	
Revised by:	Date:	Revised by:	Date:

**BOD
PROPERTY LOCATION**

105 G/12

Scale: As Shown

Date: April, 1995

Plate: 1

5. 1994 WORK

GEOLOGICAL MAPPING

On July 20, 1994, 1:10,000 scale geological mapping and prospecting was carried out by N.J.Callan (Figure 3).

GEOCHEMISTRY

A total of 38 soil samples and 1 silt sample were collected. Data is presented in Fig. 3 and Appendix 2.

The soil and silt samples were analyzed for Cu, Pb, Zn, Ag, As, Cd, Co, Ni, Fe, Mo, Cr, Bi, Sb, V, Sn, W, Sr, Y, La, Mn, Mg, Ti, Al, Ca, Na and K by I.C.P., Au by Aqua Regia decomposition/AAS and Ba by XRF at Cominco Exploration Research Laboratory (CERL) in Vancouver.

6. REGIONAL GEOLOGY

The rocks underlying this part of southeastern Yukon have been assigned to 2 terranes: the Yukon-Tanana Terrane (YTT) and the Slide Mountain Terrane (SMT) (Mortensen, 1983a; Mortensen and Jilson, 1985).

The YTT consists primarily of a layered sequence of metamorphosed rocks comprising a "lower unit" of pre-Devonian quartzite, pelitic schist and minor marble, a late Devonian to mid-Mississippian "middle unit" (3F) comprising carbonaceous phyllite and schist with interbanded mafic and, locally significant, felsic metavolcanics (3G), and an "upper unit" of Pennsylvanian marbles and quartzite. Volcanism within the "middle unit" was accompanied by the intrusion of 2-3, late Devonian to Mississippian, mafic to felsic metaplutonic suites (Simpson Range suite and augen and monzonitic orthogneisses). This sequence appears to reflect stable platformal or shelf sedimentation with an intervening period of mafic to felsic arc volcanism developed within a more reduced basinal setting.

A subhorizontal to moderately north to northeast dipping, penetrative ductile deformation fabric (S2) and associated middle greenschist facies (chlorite-biotite grade) metamorphism affects all YTT rocks. This fabric reflects the first, and most significant, deformational and metamorphic event (D1) perhaps related to a continent-arc collision during late Permian to early Triassic time.

The late Devonian to Triassic SMT comprises a heterogeneous package of mafic to ultramafic plutonic rocks, mafic volcanics, massive carbonate and chert. This sequence was structurally emplaced as thrust bounded klippen on YTT rocks or as thrust slices imbricated within YTT rocks during a period of crustal shortening (D2). The SMT is thought to represent a disrupted oceanic crust and volcanic arc assemblage thought to be located between the YTT and ancestral North America(?).

Late Triassic immature clastics comprising micaceous argillite, siltstone and sandstone unconformably(?) overlie the deformed and metamorphosed YTT rocks. These sediments are often closely associated with SMT volcanics and are invariably in fault contact with YTT rocks.

The SMT, Late Triassic sediments and Late Triassic to Middle Jurassic plutons are all affected by a period of thrust faulting (D2) during the Jurassic.

7. PROPERTY GEOLOGY AND GEOCHEMISTRY

The property appears to be underlain by rocks correlated to mixed sediments/mafic volcanics of the "middle unit".


Outcrop exposure on the property is very poor (Figure 3). In the central part of the property, float and subcrop of locally silicified and often Fe-carbonate altered/veined chloritic phyllites/schists (mafic volcanics and associated sediments?) are present. Dark grey wacke intervals typically contain trace to 25% blue quartz crystals. This sequence is typical of Mortensens' 3F unit. The area immediately southwest of an AEM conductor contains abundant float of locally Fe-carbonate-quartz veined, dark grey to black, variably carbonaceous phyllite.


Soil geochemistry revealed no anomalies of interest.


8. CONCLUSIONS and RECOMMENDATIONS

No felsic volcanics or base metal mineralization was found on the property. The carbonaceous phyllitic unit may explain the broad AEM conductor. A second AEM conductor has a character which also suggests a lithological or structural control.

No further work is recommended.

Report by: 
P.A. MacRobbie, P. Geo
Geologist

Endorsed by: 
D. Rhodes,
Senior Geologist

Approved for
Release by: 
J.M. Hamilton
Manager, Exploration
Western Canada

PAM/

DISTRIBUTION:
W.D. Files
Administration Files

9. REFERENCES

MORTENSEN, J. K., 1983a. AGE AND EVOLUTION OF THE YUKON-TANANA TERRANE, SOUTHEASTERN YUKON TERRITORY [Ph.D. Thesis]; Santa Barbara, University of California, 155 p.

MORTENSEN, J. K. AND JILSON, G. A., 1985. EVOLUTION OF THE YUKON-TANANA TERRANE : EVIDENCE FROM SOUTHEASTERN YUKON TERRITORY; *Geology*, 13, p. 806-810.


APPENDIX 1
STATEMENT OF QUALIFICATIONS

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Date: April 10, 1995



P.A MacROBBIE, P.Geo
GEOLOGIST

APPENDIX 2

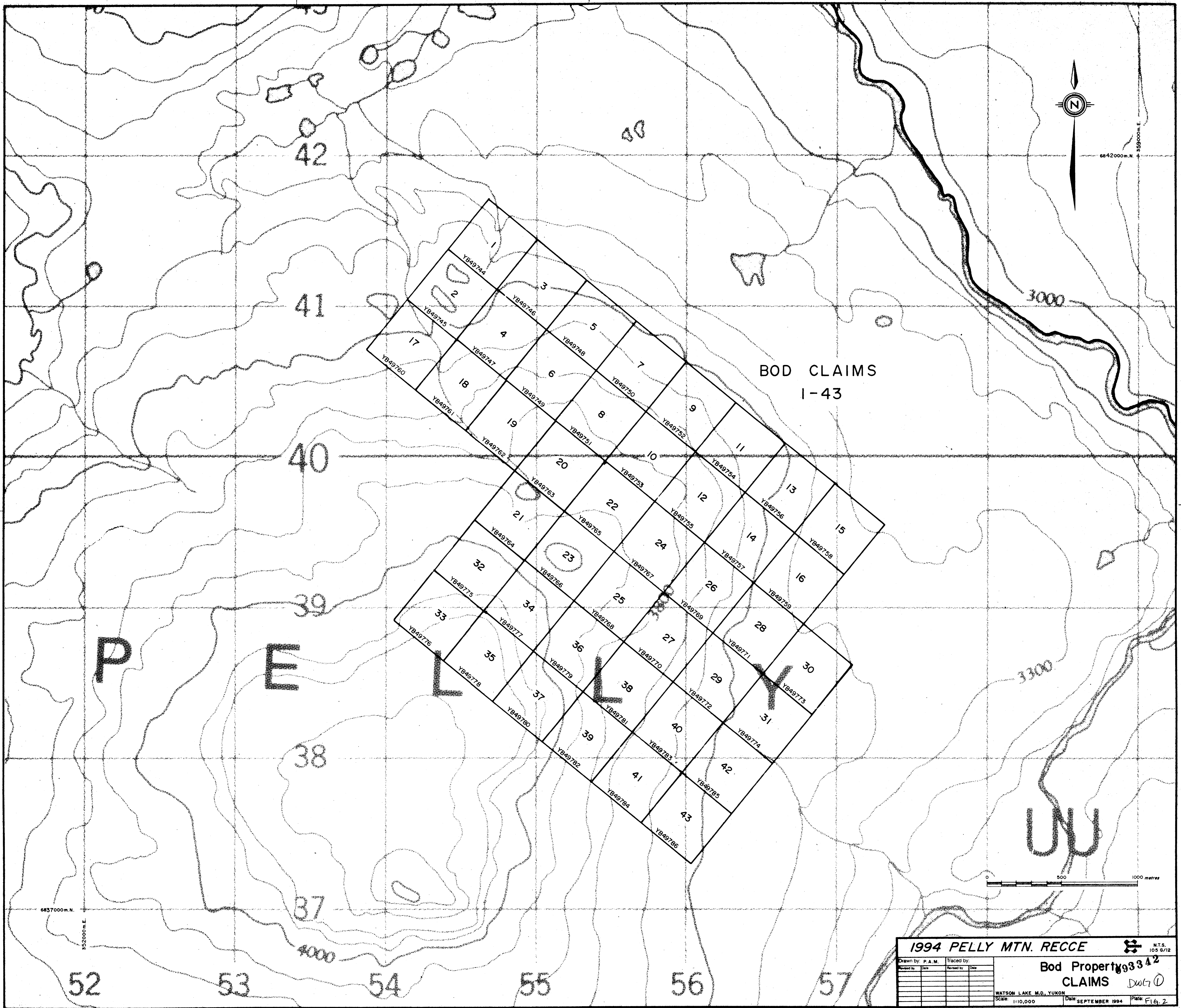
1994 GEOCHEMISTRY DATA

Property	LabNo	FieldNo	S	M	O	S	Cot	Sz	O	W	Dph	W/S	F/W	P	Cu	Pb	Zn	Ag	As	Ba(1cp)	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	Au	Wt	Ba(Xr)
Bod	S9414880	243035	**	2	1	2	3G	4	1	1	-1	10	1	**	29	10	84	0.2	29	207	1	10	33	2.05	1	22	2	2	25	1	1	54	12	10	551	0.52	0.01	0.88	1.43	0.01	0.04	5	10	1577
Bod	S9416557	241552	5	1	2	2	2G	25	2	1	30	2	B2	**	36	9	101	0.2	11	424	1	7	33	1.72	2	20	2	2	26	1	1	79	13	11	499	0.54	0.01	0.93	1.69	0.01	0.08	5	10	2233
Bod	S9416558	241553	5	1	5	2	B1	23	2	1	30	2	B2	**	13	9	59	0.2	6	201	1	5	15	1.41	1	13	2	2	21	2	2	40	6	7	284	0.29	0.01	0.89	0.91	0.01	0.02	5	10	1426
Bod	S9416559	241554	5	1	5	2	2G	25	2	1	30	3	B2	**	20	8	60	0.2	8	266	1	6	27	1.47	1	33	2	2	23	3	1	48	5	6	252	0.50	0.01	0.80	1.13	0.01	0.04	5	10	2300
Bod	S9416560	241555	5	1	5	2	2G	23	3	2	40	3	B2	**	15	5	56	0.2	5	255	1	5	17	0.93	1	13	2	2	15	3	1	60	3	3	283	0.36	0.01	0.59	1.56	0.01	0.03	5	10	1333
Bod	S9416561	241556	5	1	5	2	2G	23	2	2	30	3	B2	**	16	8	45	0.2	12	349	1	8	20	1.52	1	16	2	2	25	3	1	22	8	8	253	0.31	0.01	0.81	0.45	0.01	0.03	5	10	1854
Bod	S9416562	241557	5	1	5	2	2G	25	2	1	30	3	B2	**	23	9	53	0.4	8	305	1	6	20	1.16	1	16	2	2	20	1	1	86	10	8	306	0.44	0.01	0.76	1.78	0.01	0.02	5	10	1589
Bod	S9416563	241558	5	1	5	2	BG	23	2	1	35	3	B2	**	6	2	33	0.2	1	288	1	2	9	0.81	1	10	2	2	18	1	1	20	2	3	87	0.24	0.01	0.61	0.45	0.01	0.03	5	10	1633
Bod	S9416564	241559	5	1	2	2	BG	35	3	1	30	3	B1	**	17	13	93	0.4	9	233	1	7	20	1.59	2	15	2	2	25	2	1	56	9	9	353	0.40	0.01	0.77	0.98	0.01	0.05	5	10	1716
Bod	S9416565	241560	5	1	5	2	3K	35	3	2	40	2	A1	**	12	2	44	0.2	1	320	1	1	6	0.22	1	2	2	2	2	1	1	109	2	2	843	0.18	0.01	0.34	2.62	0.03	0.01	5	10	1261
Bod	S9416566	241561	5	1	5	2	2B	23	2	1	35	2	B2	**	12	6	56	0.2	7	269	1	3	12	1.11	2	10	2	2	22	1	1	40	3	4	142	0.22	0.01	0.77	0.71	0.01	0.02	5	10	1496
Bod	S9416567	241562	5	1	5	2	2B	23	2	1	30	3	B2	**	21	10	100	0.4	10	475	1	8	19	2.70	1	17	2	2	36	4	1	39	11	11	442	0.44	0.01	1.13	0.83	0.01	0.08	5	10	2156
Bod	S9416568	241563	5	1	5	2	2G	25	2	1	30	3	B2	**	10	6	77	0.2	1	275	1	6	14	1.29	1	15	2	2	23	3	1	32	3	5	260	0.34	0.01	0.81	0.59	0.01	0.04	5	10	1822
Bod	S9416569	241564	5	1	5	2	BK	23	3	2	45	3	A1	**	4	2	13	0.2	1	122	1	1	1	0.10	1	2	2	2	1	1	1	33	1	1	28	0.06	0.01	0.18	0.61	0.04	0.02	5	10	1233
Bod	S9416570	241565	5	1	5	2	BK	23	3	1	30	3	A2	**	24	7	70	0.2	4	266	1	5	24	1.09	2	12	2	2	16	3	1	66	10	8	241	0.35	0.01	0.63	1.46	0.01	0.04	5	10	1555
Bod	S9416571	241566	5	1	5	2	3K	35	3	2	40	2	Z	**	14	7	64	0.2	1	220	1	1	8	0.21	3	2	2	2	3	4	1	129	1	1	69	0.21	0.01	0.21	2.52	0.04	0.02	5	10	523
Bod	S9416572	241567	5	1	5	2	2G	23	1	2	30	3	B2	**	17	12	76	0.2	14	333	1	8	19	1.57	1	16	2	2	29	2	1	57	7	7	431	0.40	0.01	0.91	0.99	0.01	0.04	5	10	1923
Bod	S9416573	241568	5	1	5	2	2G	25	1	2	30	3	B2	**	19	7	72	0.2	4	177	1	12	27	3.24	3	32	2	2	33	1	1	43	11	29	438	0.79	0.01	1.56	0.79	0.01	0.01	5	10	1636
Bod	S9416574	241569	5	1	5	2	3K	35	3	2	45	3	Z	**	10	2	41	0.2	5	119	1	1	5	0.20	1	2	2	2	2	1	1	88	1	2	105	0.17	0.01	0.29	1.86	0.03	0.01	5	10	1004
Bod	S9416575	241570	5	1	5	2	3K	35	3	2	45	3	Z	**	14	2	42	0.2	4	165	1	2	11	0.43	1	2	2	2	4	1	1	104	2	3	332	0.21	0.01	0.40	2.09	0.02	0.01	5	10	955
Bod	S9416576	241571	5	1	5	2	2G	25	2	2	30	3	B2	**	16	5	77	0.4	8	172	1	7	24	1.97	3	20	2	2	23	5	1	36	12	18	235	0.50	0.01	0.98	0.56	0.01	0.03	5	10	1768
Bod	S9416577	241572	5	1	5	2	2K	23	1	2	40	3	B2	**	17	8	59	0.4	1	343	1	11	16	1.25	3	11	2	2	19	2	1	97	7	7	1405	0.38	0.01	0.61	1.91	0.01	0.02	5	10	1603
Bod	S9416578	241573	5	1	5	2	KG	23	3	2	30	3	A2	**	17	6	53	0.2	1	231	1	5	16	1.33	1	14	2	2	19	2	1	48	10	10	250	0.36	0.01	0.73	0.84	0.01	0.02	5	10	1621
Bod	S9416579	241574	5	1	5	2	KG	23	2	1	30	3	B1	**	13	7	57	0.2	7	248	1	5	14	1.17	2	12	2	2	17	3	1	57	8	7	307	0.26	0.01	0.65	1.12	0.02	0.02	5	10	1444
Bod	S9416580	241575	5	1	5	2	2K	25	3	2	40	3	A2	**	20	8	60	0.2	6	266	1	7	19	1.27	2	12	2	2	18	3	1	70	7	8	478	0.33	0.01	0.66	1.49	0.01	0.02	5	10	1593
Bod	S9416581	241576	5	1	5	2	3G	25	3	2	35	3	B2	**	20	9	66	0.2	7	190	1	7	22	1.66	2	14	2	2	20	1	1	51	11	12	397	0.39	0.01	0.74	1.00	0.01	0.03	5	10	1666
Bod	S9416582	241577	5	1	5	2	KG	35	3	2	45	3	A2	**	15	7	61	0.2	11	138	1	4	15	1.52	1	12	2	2	15	3	1	45	9	16	169	0.37	0.01	0.73	1.02	0.01	0.02	5	10	1478
Bod	S9416583	241578	5	1	5	2	BK	25	3	2	40	3	Z	**	4	2	18	0.2	1	50	1	1	2	0.15	1	2	2	2	1	2	1	31	1	1	52	0.06	0.01	0.19	0.60	0.04	0.02	5	10	845
Bod	S9416584	241579	5	1	5	2	KG	35	3	2	40	3	A2	**	11	4	24	0.2	1	136	1	2	10	0.57	1	5	2	2	7	2	1	53	3	4	86	0.16	0.01	0.41	1.46	0.02	0.01	5	10	1186
Bod	S9416585	241580	5	1	5	2	BG	23	2	2	30	3	B2	**	14	11	87	0.2	7	301	1	8	14	1.44	1	19	2	2	19	4	1	36	5	9	461	0.30	0.01	0.69	0.81	0.01	0.02	5	10	1678
Bod	S9416586	241581	5	1	5	2	2G	23	3	2	45	3	B2	**	14	8	62	0.2	10	195	1	6	16	1.61	2	12	2	5	17	4	1	56	6	13	300	0.33	0.01	0.66	1.46	0.01	0.03	5	10	1593
Bod	S9416587	241582	5	1	5	2	3K	34	3	2	40	3	Z	**	25	6	34	0.2	7	338	1	10	23	1.28	1	11	2	2	12	2	1	89	8	9	836	0.28	0.01	0.65	2.21	0.01	0.01	5	10	1451
Bod	S9416588	241583	5	1	5	2	3K	23	3	2	45	3	Z	**	7	4	23	0.2	1	126	1	2	5	0.44	1	2	2	2	4	1	1	52	2	3	163	0.13	0.01	0.29	1.11	0.02	0.02	5	10	1077
Bod	S9416589	241584	5	1	5	2	3K	12	3	2	45	3	Z	**	4	2	10	0.2	1	57	1	1	2	0.15	1	2	2	2	2	1	1	32	1	1	55	0.07	0.01	0.19	0.83	0.04	0.02	5	10	1061
Bod	S9416590	241585	5	1	5	2	2K	35	3	2	30	3	Z	**	1	2	6	0.2	1	44	1	1	1	0.04	1	2	2	2	1	2	1	17	1	1	12	0.01	0.01	0.13	0.23	0.05	0.01	5	10	1234
Bod	S9416591	241586	5	1	5	2	2G	4	2	2	45	2	B2	**	26	10	71	0.2	1	217	1	11	26	2.32	1	18	2	2	27	5	1	57	14	22	466	0.58	0.01	1.05	1.22	0.01	0.03	5	10	1656
Bod	S9416592	241587	5	1	5	2	K	-1	3	2	30	2	Z	**	18	4	36	0.2	4	174	1	1	12	0.35	1	2	2	2	3	5	1	130	2	3	160	0.24	0.01	0.41	3.36	0.05	0.02	5	10	833
Bod	S9416593	2																																										

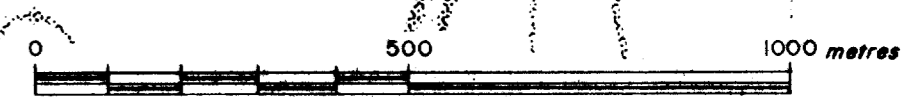
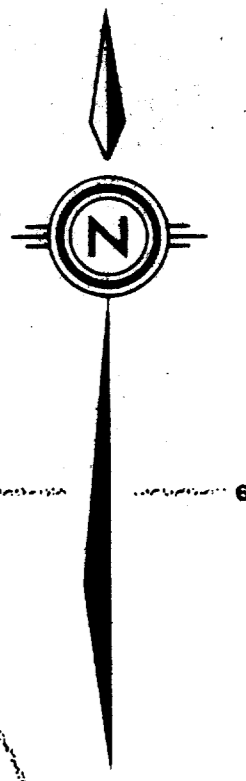
APPENDIX 3
STATEMENTS OF EXPENDITURES


BOD PROPERTY

STAFF COSTS	577
DOMICILE	218
GEOCHEMISTRY	667
HELICOPTER	864
COMMUNICATIONS	27
TRUCK RENTAL	56
FREIGHT	174
EXPEDITING	35
DRAFTING	168
TOTAL	2,786



BOD CLAIMS
1-43



1994 PELLY MTN. RECCE  N.T.S. 105 67/12

Drawn by	Date	Traced by	Date
P.A.M.			

Bod Property 93342
CLAIMS *Duty D*

WATSON LAKE M.D., YUKON
SCALE: 1:110,000
Date: SEPTEMBER 1994
Page: FIG. 2

6837000m.N.
852000m.E.

6842000m.N.
849000m.E.

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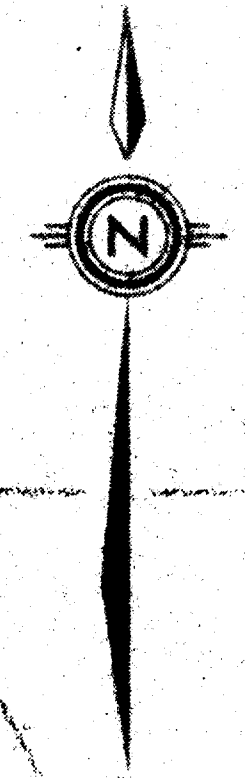
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6642000m N
899000m E

GEOLOGY

- FINLAYSON LAKE FAULT ZONE**
- 2a Cretaceous and / or Tertiary volcanics
 - 2b Early Mesozoic sediments
 - 2c Massive carbonate
 - 2d Undifferentiated metamorphic rocks
 - 2e Sheared mafic to ultramafic plutonic rocks
 - 2f Sheared greenstones and chert
 - 2g Two-mica quartz monzonite
- YUKON - TANANA TERRANE**
- 3a Cretaceous and / or Tertiary volcanics
 - 3b Early Mesozoic sediments
 - 3c Sheared mafic to ultramafic rocks
 - 3d Sheared greenstone
 - 3e Massive carbonate
 - 3f Mainly mafic metavolcanics and associated sediments
 - 3g Felsic metavolcanics
 - 3h Foliated K-feldspar porphyry
 - 3i Lower unit micaceous quartzite and marble
 - 3j Two-mica quartz monzonite
 - 3k Mafic stocks
 - 3l Augen orthogneiss
 - 3m Monzonitic orthogneiss
 - 3n Simpson Range Plutonic Suite

(after Mortensen, 1983)

SYMBOLS

- FROM REGIONAL MAPPING**
- conformable (?) contact
 - intrusive contact
 - fault
- FROM DETAILED MAPPING**
- - - conformable (?) contact
 - - - intrusive contact
 - - - fault
 - outcrop
 - x small outcrop
 - talus / subcrop
 - + float
 - leucocratic altered zone / gossan
 - S, dip
 - S, foliation
 - S, foliation
 - ↘ lineation with plunge
 - joint surface
 - ▲ Cominco rock sample
 - Cominco stream alt sample
 - Cominco soil sample
 - Cominco lithochem. sample
 - Cominco heavy mineral sample
 - R.G.S. stream alt sample
 - Mine showing
 - trench
 - D.D.H. collar
 - Cominco 1994 geophysical grid



1994 PELLY MTN. RECCE N.T.S.
105.6/12

Bod Property 093342

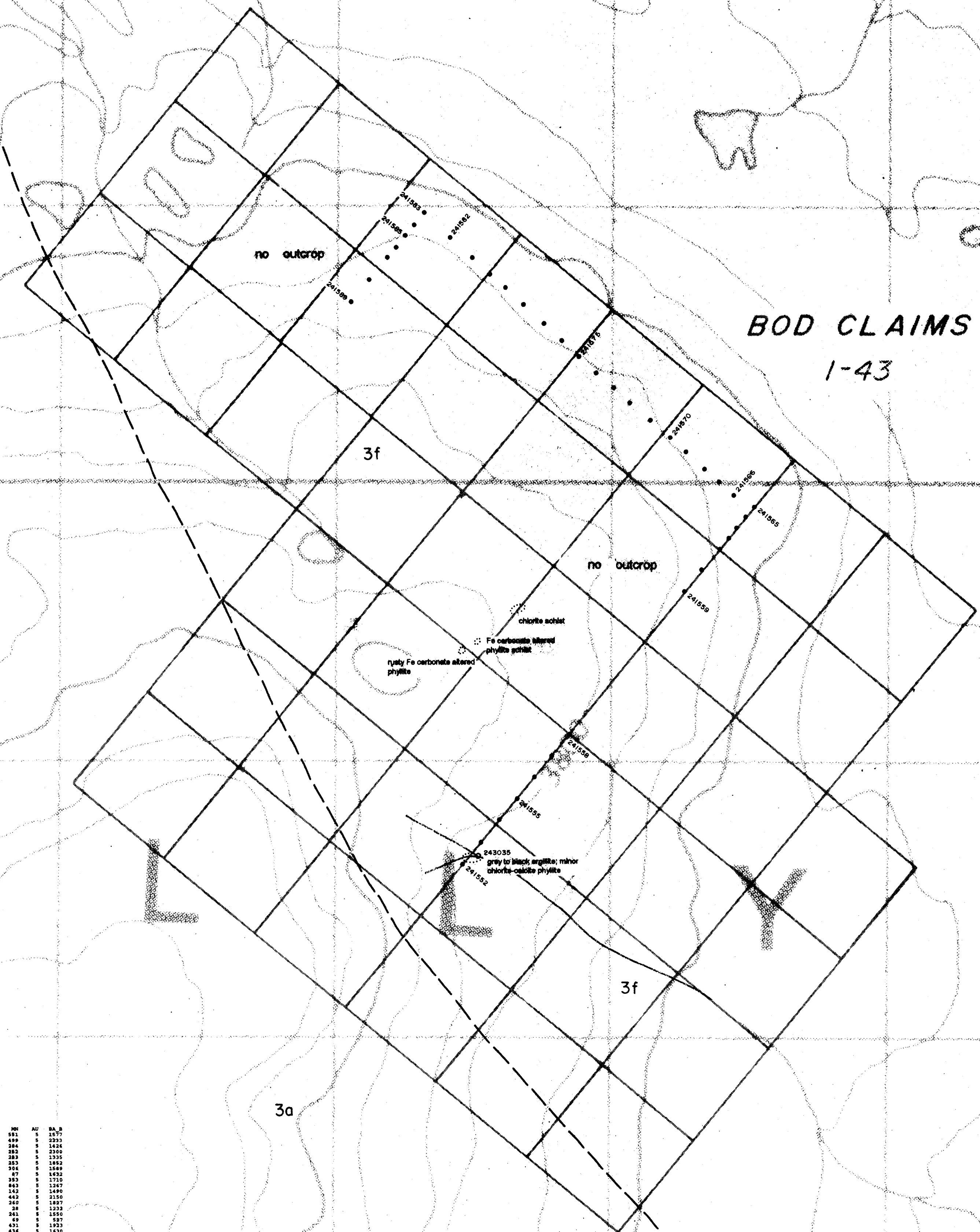
GEOLOGY & GEOCHEMISTRY

WATSON LAKE M.P., YUKON Dwb

Scale: 1:10,000 Date: SEPTEMBER 1994 Page: Fig. 3

Drawn by	P.A.M.	Traced by	
Reviewed by		Reviewed by	
Date		Date	

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BOD CLAIMS
1-43

PELLY

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6637000m N
852000m E