093391

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS 105 G/6

1995 ASSESSMENT REPORT

TIN PROPERTY

SOIL GEOCHEMISTRY AND GEOLOGICAL MAPPING

WATSON LAKE M.D., YUKON

PELLY MOUNTAINS AREA

WORK PERIOD

JULY 6, 1995

61°28'

131°16'

APRIL, 1995

PAUL A. MacROBBIE

TABLE OF CONTENTS

ATTACHMENTS

1995 ASSESSMENT REPORT
TIN PROPERTY, YUKON TERRITORY

1. SUMMARY

The TIN property is located northeast of the Hoole River, approximately 75 kms southeast of Ross River, 35 kms southwest of Finlayson Lake, and 35 km west of Cominco's ABM VHMS Deposit.

The property was staked to cover previously known showings and 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 and the Slide Mountain Terrane. The Yukon-Tanana Terrane 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 both Cominco's ABM and Westmin/Atna's Wolverine Zone VHMS deposits.

The western half of the TIN property is underlain by favourable YTT, *"middle unit"* felsic and mafic metavolcanics, including dense, aphyric felsic flows and feldspar augened schists (felsic crystal tuffs?) which appear to be of similar character as corresponding units in the ABM deposit area.

The felsic crystal tuffs(?) are variably Fe-carbonate altered and are host to vein and disseminated sphalerite±galena-pyrite at the EI showings. A significant Ba soil anomaly suggests the presence of barite at a stratigraphic level between the felsic flow and feldspar crystal tuff units.

The detailed AEM/MAG coverage for the showing area is not complete, and where AEM/MAG data is available, the flight lines are oriented near parallel to the strike of the favourable geology. It is therefore recommended that an airborne EM/MAG survey be flown to cover areas of interest previously not flown, and portions of the 1994 survey at an orientation perpendicular to geology.

The favourable volcanic stratigraphy seen on the TIN trends off the property to the northeast towards the CHUB property. Geological mapping, prospecting and soil geochemical sampling are recommended for these areas.

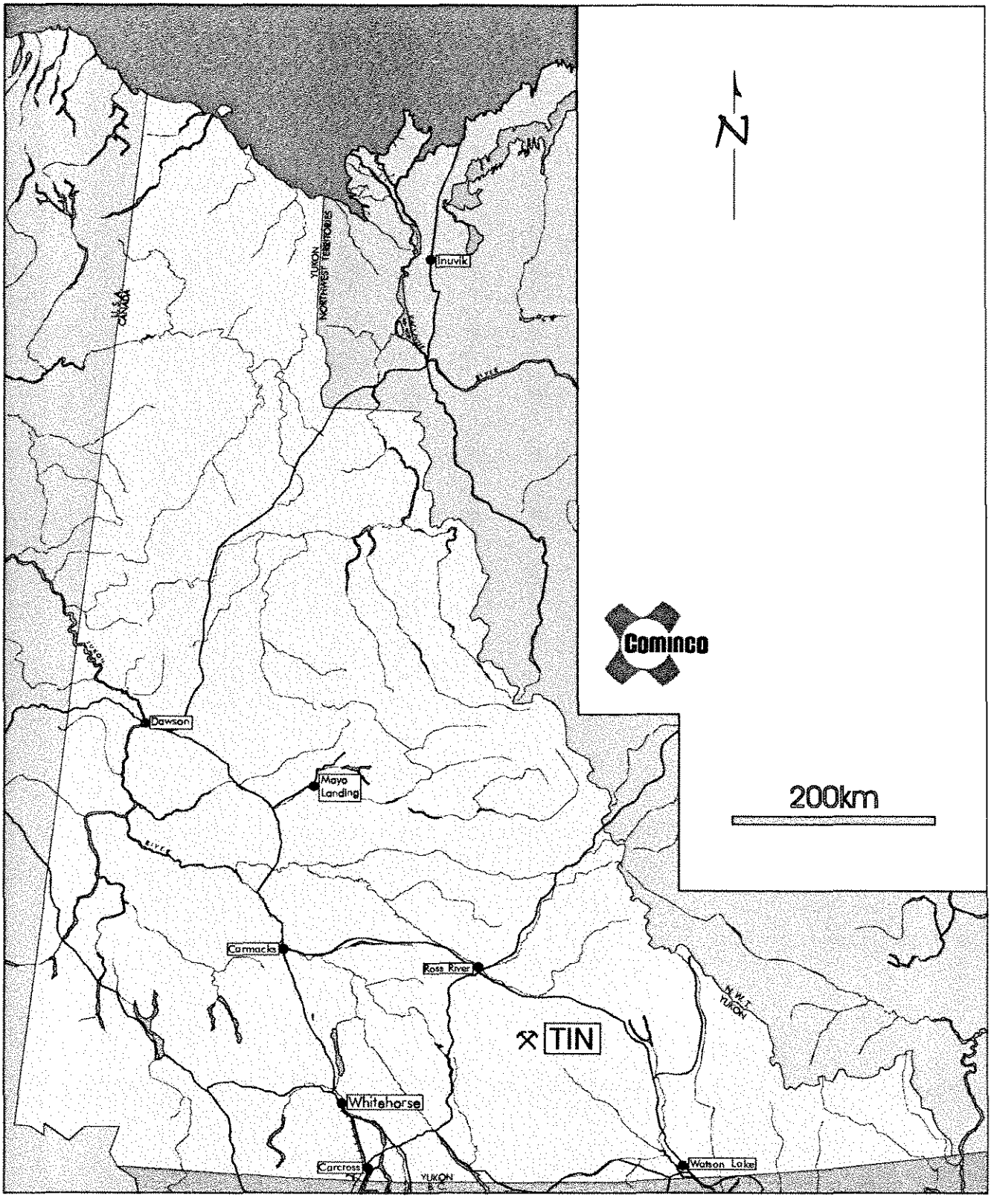
2. LOCATION AND ACCESS

The TIN property is located northeast of the Tintina Fault and Hoole River, approximately 75 kms southeast of Ross River, 35 kms southwest of Finlayson Lake, and 35 km west of the ABM deposit (Figure 1). The gravel, all-weather Robert Campbell Highway provides access to within 30 kms of the property. Direct access is by helicopter. An old, overgrown winter road joins the property to the highway at Mink Creek.

3. PROPERTY AND OWNERSHIP

The TIN property, totalling 96 units due May 15, 1996 (Figure 2), is 100% owned by Cominco Ltd.

NAME	UNITS	CLAIM NO.	DUE DATES
TIN 1-96	96	YB49431-9526	May 15/96



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

TIN PROPERTY LOCATION MAP

105 G/6

Scale:	Date:	Plate:
As Shown	Feb., 1996	1

4. PREVIOUS WORK

The property area was initially staked (Minfile #16; EI) by Newmont in 1955 and then restaked by Northlake Mines Ltd. in 1966 following an airborne geophysical survey. Northlakes conducted prospecting, trenching and grid soil sampling in 1966 and drilled 4 holes (324 m) in 1967. The claims eventually lapsed and the ground was restaked by Empire Metals Corp. (Sovereign Metals Corp.) in 1974. The property was optioned to Texasgulf in 1975 and then to St. Joseph Exploration in 1976. Both companies undertook mapping and soil geochemical surveys. The claims again lapsed. In 1988, Welcome North restaked an aeromagnetic anomaly and completed a mapping, prospecting and soil geochemical survey in that same year. The claims subsequently lapsed and apparently remained open until 1994.

In the summer of 1994, Cominco Ltd. completed geological mapping/prospecting and geochemical sampling on the property. Soil results returned significant Ba (3500 to 10493 ppm) values over a 1,500 metre strike length. Scattered Zn (425, 430 ppm) anomalies often with supporting Cd (up to 23 ppm) values and elevated Pb (30 to 36 ppm) values were also present.

The showing of interest comprises veins of Zn-Pb-Ag mineralization within a feldspar augened schist (felsic crystal tuff or intrusive?). Previous work outlined a 120 x 850 metres weak Zn±Pb anomaly centered on the showings exposed in trenches. A grab sample from the trenches returned 26.8% Pb, 0.5% Zn and 20.6 g/t Ag. The best drill result was 0.6% Pb, 0.6% Zn and 6.9 g/t Ag over 11.3 metres in Hole-1, including 2.5% Zn, 0.8% Pb and 10.3 g/t Ag over 1.2 metres.

Other showings on the property are reported to include asbestos fibre float and showings and a strong As with weak scattered Au values coincident with zones of quartz-carbonate alteration in mafic metavolcanics.

5. 1994 WORK

GEOLOGICAL MAPPING

On July 6, 1995, 1:10,000 scale geological mapping and prospecting was carried out by P.A. MacRobbie, D. Senft, T.C. Schwartz, and L. Hall (Figure 3), one rock sample was collected for lithogeochemical analyses.

GEOCHEMISTRY

A total of 177 soil samples and 4 silt samples were collected on July 6, 1995. Data is presented in Figure 4 and Appendix 2.

The soil, silt and rock 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 heterogenous 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

Regional mapping suggests the property is underlain primarily by the *"middle unit"* comprising mafic metavolcanics and associated sediments (3F) and lesser felsic metavolcanics (3G) (Mortensen, 1983a).

Outcrop exposure on the property is generally poor (Figure 3) with outcrop and talus/subcrop restricted to the northwest corner, on the slopes above the El showings, and on the ridge at the east end of the property. A significant fault is interpreted to be present in the main valley bottom seperating these 2 areas of contrasting geology.

The east end of the property is underlain by a series of EW-trending, red brown weathering, variably magnetic, strongly quartz (silica)-Fe-carbonate (listwanite?) altered gabbroic(?) intrusives up to 300 metres thick/wide, cutting a monotonous sequence of fissile grey phyllites. No felsic metavolcanics were encountered in this area.

The northwest corner of the property is underlain by NE-trending package of mafic and felsic metavolcanics with minor argillite and siltstones. On the property, the rocks strike generally NW with shallow to steep (5 to 85^{o}) NE and SW dips; perpendicular to the trend of the units. Outcrops to the northeast, off the property, exhibit more northerly trends and west dips.

The lowest (structurally/stratigraphically?) unit is a black, variably carbonaceous argillite exposed low on the slope and in a small tributary creek. Overlying the argillites is a relatively thin interval (50-100 m) of laminated to thinly banded, siliceous, light silvery green, quartz-sericite-chlorite schist, which grades upwards into a thick interval (300-400 m) of sheared, feldspar augened, locally Fe-carbonate altered, sericite-chlorite-quartz schist with interbanded argillaceous sediments. The interbedded/interbanded nature of the interval (as seen in old drill core) suggest the augened unit to be a series of felsic crystal-rich tuffs similar to rhyolitic feldspar crystal tuffs hosting the ABM Deposit. At the TIN, this unit is host to disseminated and vein sphalerite±galena-pyrite mineralization. This augened unit appears to thin and then thicken, to the northeast, off the property.

Above the El showing and overlying(?) the feldspar augened schists, is a thick (200-300 m), very distinctive white, massive, dense, fine-grained aphyric felsic flow(?) similar to rhyolite flows/sills in the hosting felsic sequence of the ABM Deposit. This unit appears to thin rapidly to the northeast, grading laterally into massive to well bedded/banded(?), grey sericite-quartz-feldspar and white to grey sericite-quartz schists (felsic tuffs?) exposed in the small tributary creek. In this area and to the northeast, the felsics interfinger and grade laterally into variably Fe-carbonate altered, locally magnetic, bedded/banded(?) mafic chlorite-calcite phyllitic schists. Outcrops off the property, to the northeast, suggest equivalent rocks to comprise locally epidote altered mafic to intermediate flows and agglomerate(?).

Above the dense felsic flow unit is an interval of interbedded/banded biotitic schists (metasediments), siliceous banded/bedded(?) quartz-feldspar-sericite schist (felsic volcaniclastics) and grey to black siltstone, argillite and minor sedimentary breccias/conglomerate.

At the western edge of the property, serpentinized ultramafics of the SMT, containing trace chromite disseminations, structurally overlie the YTT metavolcanic/ sedimentary rocks.

8. GEOCHEMISTRY

A total of 181 samples were collected every 50 metres from 4 contour soil lines on the property in 1995. Results returned one sample highly anomalous in Pb (6746 ppm), Zn (642 ppm), Ag (6.4 ppm), and As (1427 ppm), with elevated Au (84 ppm). This sample was taken approximately 400 metres west of the El Minfile showing. Other results were limited to minor elevated Pb (up to 513 ppm), Zn (up to 416 ppm), and Ba (up to 3212 ppm), all occuring in the vicinity of the showing.

9. CONCLUSIONS and RECOMMENDATIONS

The western half of the property is underlain by favourable YTT, *"middle unit"* felsic and mafic metavolcanics, including dense, aphyric felsic flows and feldspar augened schists (felsic crystal tuffs?) which appear to be of similar character as corresponding units which host the ABM VHMS Deposit.

The felsic volcanics are variably Fe-carbonate altered and are host to vein and disseminated sphalerite±galena-pyrite at the El showings. A significant Ba soil anomaly suggests the presence of barite at a stratigraphic level between the felsic flow and feldspar crystal tuff.

This favourable volcanic stratigraphy trends off the property to the northeast. Geological mapping, prospecting and soil geochemistry sampling are recommended for this immediate area and areas proximal to the CHUB property.

The detailed AEM/MAG coverage for the showing area is not complete, and where AEM/MAG data is available, the flight lines are oriented near parallel to the strike of the favourable geology. It is therefore recommended that an airborne EM/MAG survey be flown to cover areas of interest previously not flown, and portions of the 1994 survey at an orientation perpendicular to geology.

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

Endorsed by: D W Moore for D. Rhodes.
D. Rhodes,
Senior Geologist

Approved for Release by: D W Moore
D.W. Moore
Manager, Exploration
Western Canada

PAM/

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10. 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

STATEMENT OF QUALIFICATIONS

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

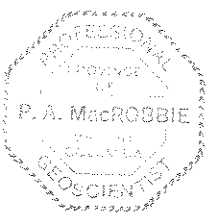
1. Graduated from Carleton University, Ottawa, Ontario with a B.Sc. in Geology in May, 1986 and a M.Sc. in Geology in June, 1988.

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: February, 1996

P.A MacROBBIE, P.Geo
GEOLOGIST



APPENDIX 2

1994 GEOCHEMISTRY DATA

LAB NO	sample #	property	Au	Ba(4)	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K
R9515932	TS95-R12	TIN	100	1918	110	<4	313	<.4	4	97	2	33	213	E16.27	<2	78	<5	13	82	40	<2	18	4	3	2687	0.75	<.01	0.77	0.16	<.01	0.07

PELLY MOUNTAIN LITHO.		SiO2	TiO2	Al2O3	Al2O3/TiO2	Fe2O3	FeO	MnO	MgO	CaO	Na2O	K2O	P2O5	Ba	LOI	Total	Zr	Y	Nb
PMR95 040	TIN	72.42	0.31	13.01	41.97	1.10	1.25	0.04	1.15	0.81	1.98	4.00	0.08	0.20	2.31	98.46	307	53	38
PMUH95 065	TIN	47.27	1.23	13.02	10.59	2.39	4.90	0.13	5.75	13.66	3.47	0.11	0.17	0.01	5.97	99.08	94	24	22
PMUH95 068	TIN	85.58	0.60	15.82	26.03	2.70	1.18	0.08	0.57	0.75	0.72	8.22	0.18	0.17	2.84	98.87	558	53	38

Lab,Field,S,M,O,S,C,S,O,W,Dpth,W/S,F/H,Cu,Pb,Zn,Ag,As,Ba,Cd,Co,Ni,Fe,Mo,Cr,Bi,Sb,V,Sn,W,Sr,Y,La,Mn,Mg,Ti,Al,Ca,Na,K,Au,Ba(XRF)

TIN LAB#	FIELD#	S	M	O	S	C	S	O	W	DPH	W/S	F/W	CU	PB	ZN	AG	AS	BA_A	CD	CO	NI	FE	MO	CR	BI	SB	V	SN	W	SR	Y	LA	MN	MG	TI	AL	CA	NA	K	AU	BA_B
9516771	177931	4	1	4	-1	2B	4	1	1	25	3	B2	15	8	37	0.2	2	108	1	9	25	2.56	2	38	2	8	43	17	1	5	2	4	327	0.45	0.04	0.84	0.09	0.01	0.02	5	1152
9516772	177932	4	1	4	-1	2B	4	1	1	25	3	B2	17	8	43	0.2	28	115	1	7	26	2.47	4	33	2	5	36	15	1	7	3	7	226	0.38	0.02	0.91	0.08	0.01	0.03	5	1239
9516773	177933	4	1	4	-1	2B	4	1	1	25	3	B2	10	9	35	0.2	6	99	1	4	15	1.06	1	15	2	2	20	10	1	5	1	3	276	0.13	0.01	0.35	0.05	0.01	0.03	5	1118
9516774	177934	4	1	4	-1	2B	4	1	1	25	3	B2	11	4	24	0.2	8	113	1	3	11	0.82	5	10	2	2	11	9	1	6	2	4	112	0.14	0.01	0.57	0.11	0.01	0.02	5	1038
9516775	177935	4	1	4	-1	2B	4	1	1	25	3	B2	41	11	56	0.2	50	375	1	13	25	3.22	3	20	2	10	37	20	1	11	9	8	663	0.31	0.01	1.13	0.14	0.01	0.04	5	1644
9516776	177936	4	1	4	-1	2B	4	1	1	25	3	B2	33	10	80	0.2	5	385	1	10	24	2.37	3	23	2	7	30	8	1	19	4	7	712	0.26	0.01	1.15	0.22	0.01	0.06	5	1733
9516777	177937	4	1	4	-1	2B	4	1	1	25	3	B2	18	15	54	0.2	23	463	1	7	24	1.99	3	26	2	7	23	14	1	19	6	15	281	0.38	0.01	0.99	0.32	0.01	0.04	5	2339
9516778	177938	4	1	4	-1	2B	4	1	1	25	3	B2	19	8	38	0.4	2	294	1	4	19	1.11	2	15	2	15	14	5	1	31	9	9	224	0.23	0.01	0.95	0.56	0.01	0.02	5	1353
9516779	177939	4	1	4	-1	2B	4	1	1	25	3	B2	7	14	38	0.2	29	214	1	3	16	1.64	4	22	2	2	17	10	5	9	2	15	152	0.21	0.01	0.66	0.13	0.01	0.03	5	1976
9516780	177940	4	1	4	-1	2B	4	1	1	25	3	B2	10	10	44	0.2	12	284	1	6	36	1.58	1	38	2	2	20	8	1	11	3	9	189	0.39	0.01	0.79	0.11	0.01	0.03	5	1425
9516781	177941	4	1	4	-1	2B	4	1	1	25	3	B2	1	13	13	0.2	17	128	1	1	3	0.46	1	4	2	2	19	1	1	4	1	11	34	0.05	0.01	0.4	0.02	0.01	0.03	5	1578
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9516783	177943	4	2	4	-1	2B	34	1	3	25	33	B1	37	15	95	0.4	12	285	1	7	61	1.65	1	40	2	2	15	3	1	58	17	15	267	0.53	0.01	0.82	1.08	0.01	0.06	5	1436
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9516787	177947	4	1	4	-1	2B	4	1	3	25	3	B2	6	10	14	0.2	3	76	1	2	3	0.44	1	2	2	2	7	4	1	5	1	4	804	0.02	0.01	0.49	0.04	0.01	0.01	5	1142
9516788	177948	4	1	4	-1	2B	4	1	3	25	3	B2	13	7	30	0.2	19	286	1	4	13	1.25	1	7	2	5	15	8	1	7	1	11	130	0.03	0.01	0.33	0.04	0.01	0.04	5	1662
9516789	177949	4	1	4	-1	2B	4	1	3	25	3	B2	15	14	66	0.2	17	285	1	7	35	1.72	1	38	2	2	19	1	1	15	4	15	229	0.47	0.01	0.77	0.18	0.01	0.06	5	1858
9516790	177950	4	1	-1	-1	2B	4	1	1	-1	3	B2	20	20	43	0.4	6	330	1	13	15	1.58	1	18	5	2	16	3	1	45	17	23	792	0.16	0.01	0.78	0.78	0.01	0.03	5	1772
9516791	177951	4	-1	-1	-1	2B	4	1	1	-1	3	B2	5	22	58	0.2	64	88	1	3	11	1.08	1	10	2	2	9	4	1	9	3	12	175	0.06	0.01	0.37	0.09	0.01	0.05	5	1425
9516792	177952	4	-1	-1	-1	2B	4	1	1	-1	3	B2	13	11	47	0.2	5	128	1	4	7	0.68	1	2	2	6	5	5	1	23	5	6	550	0.05	0.01	0.38	0.32	0.01	0.01	5	1235
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9516796	177956	4	-1	-1	-1	2B	4	1	1	-1	3	B2	24	12	126	0.2	21	188	1	5	14	0.96	1	5	2	2	5	9	1	63	11	7	888	0.12	0.01	0.49	1.18	0.01	0.02	5	1213
9516797	177957	4	-1	-1	-1	2B	4	1	1	-1	3	B2	26	8	63	0.4	5	170	1	3	15	0.61	1	6	2	2	5	4	1	65	9	6	302	0.13	0.01	0.41	1.19	0.01	0.03	5	1223
9516798	177958	4	2	4	-1	2B	34	1	3	-1	3	B1	17	18	85	0.2	15	123	1	6	20	1.48	1	13	2	2	8	10	5	34	8	13	265	0.29	0.01	0.51	0.64	0.01	0.06	5	1686
9516799	177959	4	-1	-1	-1	2B	34	1	3	-1	3	B2	24	17	85	0.2	33	243	1	9	28	1.98	1	19	7	2	15	6	1	47	16	22	670	0.23	0.01	0.81	0.62	0.01	0.04	5	1497
9516800	177960	4	-1	-1	-1	2B	34	1	3	-1	3	B2	5	6	17	0.2	5	41	1	1	2	0.19	1	2	2	2	2	1	1	20	1	1	61	0.05	0.01	0.18	0.37	0.01	0.01	5	1063
9516801	177961	4	-1	-1	-1	2B	34	1	3	-1	3	B2	13	11	48	0.2	6	160	1	3	14	0.76	1	6	2	2	8	8	1	44	5	6	273	0.11	0.01	0.48	0.77	0.01	0.03	5	1345
9516802	177962	4	-1	-1	-1	2B	34	1	3	-1	3	B2	18	19	82	0.2	22	189	1	9	30	2.06	1	23	5	2	17	7	1	35	11	14	472	0.37	0.01	0.78	0.54	0.01	0.06	5	1685
9516803	177963	4	-1	-1	-1	2B	34	1	3	-1	3	B2	24	15	52	0.2	19	211	1	4	16	1.22	1	12	2	2	9	1	4	39	7	10	235	0.18	0.01	0.62	0.5	0.01	0.02	5	1785
9516804	177964	4	-1	-1	-1	2B	34	1	3	-1	3	B2	40	13	70	0.2	10	199	1	5	26	1.17	1	11	2	11	8	1	1	129	17	14	270	0.26	0.01	0.68	1.3	0.01	0.03	5	1489
9516805	177965	4	-1	-1	-1	2B	34	1	3	-1	3	B2	19	16	107	0.2	38	197	1	10	30	2.26	1	27	7	2	21	1	1	44	9	16	468	0.48	0.01	1.12	0.64	0.01	0.07	5	1653
9516806	177966	4	-1	-1	-1	2B	34	1	3	-1	3	B2	14	17	79	0.2	23	158	1	8	24	1.96	1	22	2	2	17	8	1	41	6	15	273	0.44	0.01	0.98	0.6	0.01	0.07	5	1511
9516807	177967	4	-1	-1	-1	2B	34	1	3	-1	3	B2	17	19	121	0.2	26	218	1	7	24	1.8	2	19	2	2	13	5	1	67	10	15	304	0.38	0.01	0.77	1.06	0.01	0.07	5	1769
9516808	177968	4	-1	-1	-1	2B	34	1	3	-1	3	B2	123	33	103	0.5	18	557	1	9	86	1.95	18	27	2	2	12	1	1	106	233	228	811	0.3	0.01	1.31	1.54	0.01	0.06	5	2342
9516809	177969	4	-1	-1	-1	2B	34	1	3	-1	3	B2	13	25	111	0.2	39	150	1	10	26	1.93	1	20	2	2	12	1	2	12	7	12	609	0.19	0.01	0.62	0.16	0.01	0.05	10	1534
9516810	177970	4	1	4	-1	2B	4	1	1	25	3	-1	13	15	56	0.2	17	154	1	4	16	1.07	1	11	2	2	10	6	1	30	13	16	267	0.12	0.01	0.48	0.43	0.01	0.04	5	1245
9516811	177971	4	1	4	-1	2B	4	1	1	25	3	-1	17	26	93	0.2	23	163	1	8	24	1.71	1	19	2	2	15	1	1	32	11	15	448	0.34	0.01	0.74	0.52	0.01	0.07	5	1895
9516812	177972	4	1	4	-1	2B	4	1	1	25	3	-1	16	17	82	0.2	5	204	1	6	17	1.35	1	16	2	2	12	1	1	87	8	13	448	0.28	0.01	0.67	1.16	0.01	0.1	5	1552
9516813	177973	4	1	4	-1	2B	4	1	1	25	3	-1	19	26	115	0.2	30	204	1	8	25	2	1	23	2	2	17	2	1	63	11	17	326	0.45	0.01	1.03	0.91	0.01	0.2	5	1680
9516814	177974	4	1	4	-1	2B	4	1	1	25	3	-1	7	13	45	0.2	17	103	1	3	8	0.9	2	9	2	2	8	1	1	48	4	8	136	0.23	0.01	0.58	0.68	0.01	0.06	5	1248
9516815	177975	4	1	4	-1	2B	4	1	1	25	3	-1	20	14	73	0.2	15	117	1	7	32	1.67	1	25	5	5	16	10	1	63	8	13	338	0.47	0.01	0.86	0.88	0.01	0.06	5	1183
9516816	177976	4	1	4	-1	2B	4	1	1	25	3	-1	20	14	79	0.2	11	195	1	10	29	2.46	3	31	2	2	24	4	1	32	11	20	484	0.57	0.01	1.34	0.44	0.01	0.07	5	1683
9516817	177977	4	1	4	-1	2B	4	1	1	25	3	-1	30	13	93	0.2	22	254	1	9	30	1.68	1	22	2	5	16	8	1	88	10	13	1266	0.48	0.01	1.1	1.29	0.01	0.05	5	1365
9516818	177978	4	1	4	-1	2B	4	1	1	25	3	-1	20	16	67	0.2	21	165	1	10	28	2.09	1	27	2	2	21	1	1	44	10	19	511	0.52	0.01	1.05	0.63	0.01	0.06	5	1467
9516819	177979	4	1	4	-1	2B	4	1	1	25	3	-1	27	18	89	0.2	29	136	1	9	34	2.43	1	31	5	2	24	12	1	44	13	22	351	0.63	0.01	1.16	0.59	0.01	0.09	5	1472
9516820	177980	4	1	4	-1	2B	4	1	1	25	3	-1	27	16	100	0.2	39	167	1	11	40	2.76	1	36	2	2	24	5	1	64	11	18	611	0.71	0.01	1.3	0.89	0.01	0.08	5	1637
9516821	177981	4	2	4	-1	2B	4	1	3	25	33	1	24	11	67	0.2	22	137	1	8	31	1.87	1	30	2	7	20	12	1	62	15	21	335	0.56	0.01	0.9	2.21	0.01	0.07	5	1098
9516822	177982	4	1	4	-1	2B	4	1	3	25	3	-1	16	19	79	0.2	32	156	1	9	29	2.13	1	37	2	2	23	6	1	43	9	17	348	0.62	0.01	1.09	0.7	0.01	0.09	5	1370
9516823	177983	4	1	4	-1	2B	4	1	3	25	3	-1	17	13	72	0.2	20	142	1	9	28	2.28	1	36	2	2	24	27	1	45	11	18	356	0.65	0.01	1.17	0.67	0.01	0.07	5	1262
9516824	177984	4	1	4	-1	2B	4	1	3	25	3	-1	10	7	58	0.2	17	100	1	8	24	1.93	1	31	2	2	21	1	1	37	9	17	349	0.56	0.01	0.93	0.54	0.01	0.07	5	1134
9516825	177985	4	1	4	-1	2B	4	1	3	25	3	-1	8	10	43	0.2	19	59	1	5	20	1.56	1	24	2	2	18	1	6	22	6	12	160	0.47	0.01	0.8	0.33	0.01	0.05	5	1064
9516826	177986	4	1	4	-1	2B	4	1	3	25	3	-1	10	11	76	0.2	10	120	1	8	24	2	1	32	5	2	24	2	1	53	8	16	230	0.63	0.01	1.03	0.7	0.01	0.06	5	1078
9516827	177987	4	1	4	-1	2B	4	1	3	25	3	-1	12	12	55	0.2	18	141	1	8	23	2.01	1	30	2	2	27	4	1	27	6	16	313	0.57	0.01	1.06	0.36	0.01	0.05	5	1292
9516828	177988	4	1	4	-1	2B	4	1	3	25	3	-1	18	15	68	0.2	25	194	1	10	27	2.19	1	32	2	2	27	1	1	77	12	16	476	0.65	0.01	1.19	0.94	0.01	0.06	5	1372
9516829	177989	4	1	4	-1	2B	4	1	3	25	3	-1	24	14	87	0.2	30	212	1	12	34	2.49	3	39	2	2	32	9	1	41	13	18	462	0.74	0.01	1.29	0.58	0.01	0.08	5	1553
9516830	177990	4	1	4	-1	2B	4	1	1	25	3	B2	20	17	88	0.2	38	164	1	9	28	2.1	1	28	2	2	25	1	1	68	11	14	568	0.6	0.01	1.11	0.76	0.01	0.06	5	1233
9516831	177991	4	1	4	-1	2B	4	-1	-1	25	3	B2	16	14	64	0.2	23	177	1	7	22	1.75	1	22	2	2	20	14	1	54	8	11	325	0.47	0.01	0.89	0.77	0.01	0.04	5	1406
9516832	177992	4	1	4	-1	2B	4	-1	-1	25	3	B2	22	16	113	0.2	18	249	1	9	25	1.83	1	25	2	5	22	6	1	86	11	13	543	0.52	0.01	1.01	1.34	0.01	0.07	5	1472
9516833	177993	4	1	4	-1	2B	4	-1	-1	25	3	B2	16	12	89	0.2	17	309	1	8	24	2.12	1	29	2	2	27	3	1	55	8	14	274	0.61	0.01	1.22	0.86	0.01	0.06	5	1554
9516834	177994	4	1	4	-1	2B	4	-1	-1	25	3	B2	21	13	100	0.2	7	168	1	9	30	2.18	1	32	2	2	29	3	1	50	10	16	257	0.64	0.01	1.07	0.67	0.01	0.08	5	1390
9516835	177995	4	1	4	-1	2B	4	-1	-1	25	3	B2	12	18	63	0.2	14	101	1	10	25	2.59	1	30	2	2	30	1	1	11	5	16	266	0.58	0.01	1.26	0.16	0.01	0.05	5	1170
9516836	177996	4	1	4	-1	2B	4	-1	-1	25	3	B2	19	14	82	0.2	17	284	1	9	26	1.77	1	26	2	2	23	1	1	68	8	12	634	0.51	0.01	1.06	1.07	0.01	0.05	5	1494

Lab,Field,S,M,O,S,C,S,O,W,Dpth,W/S,F/H,Cu,Pb,Zn,Ag,As,Ba,Cd,Co,Ni,Fe,Mo,Cr,Bi,Sb,V,Sn,W,Sr,Y,La,Mn,Mg,Ti,Al,Ca,Na,K,Au,Ba(XRF)

9516837	177997	4	1	4	-1	2B	4	-1	-1	25	3	B2	10	6	43	0.2	6	124	1	4	16	1.06	1	19	2	2	14	11	1	35	5	8	171	0.32	0.01	0.63	0.6	0.01	0.04	5	1144
9516838	177998	4	1	4	-1	2B	4	-1	-1	25	3	B2	20	12	95	0.2	26	224	1	9	28	1.96	1	29	2	2	22	4	1	84	9	12	315	0.65	0.01	1.09	1.26	0.01	0.06	5	1411
9516839	177999	4	1	4	-1	2B	4	-1	-1	25	3	B2	14	5	42	0.2	8	171	1	4	15	0.89	1	11	2	2	9	8	1	99	4	5	278	0.3	0.01	0.56	1.64	0.01	0.03	5	1186
9516840	178000	4	1	4	-1	2B	4	-1	-1	25	3	B2	14	12	57	0.2	19	291	1	8	18	1.9	1	25	2	2	23	7	1	53	8	10	548	0.38	0.01	0.93	0.82	0.01	0.04	5	1511
9516841	138423	4	1	4	-1	2B	4	-1	-1	25	3	-1	18	12	96	0.2	4	186	1	8	22	2.02	1	26	2	2	24	1	1	57	9	12	443	0.54	0.01	1.04	0.94	0.01	0.05	5	1292
9516842	138424	4	1	4	-1	2B	4	-1	-1	25	3	-1	16	7	49	0.2	22	173	1	6	15	1.22	1	14	2	2	14	2	1	74	8	9	255	0.33	0.01	0.75	1.45	0.01	0.02	5	1065
9516843	138425	4	2	4	-1	2B	4	1	3	25	33	B1	27	15	116	0.2	1	244	1	12	41	2.65	1	61	2	2	34	4	1	68	12	13	352	0.93	0.01	1.26	1.26	0.01	0.1	5	1361
9516844	138426	4	1	-1	-1	2B	-1	-1	-1	25	3	-1	18	7	91	0.2	3	214	1	8	21	1.69	1	25	2	2	20	2	1	66	8	11	378	0.53	0.01	1	1.17	0.01	0.07	5	1353
9516845	138427	4	1	-1	-1	2B	-1	-1	-1	25	3	-1	23	16	94	0.2	22	283	1	9	27	2.02	1	34	5	2	23	3	1	108	12	13	326	0.65	0.01	1.09	1.94	0.01	0.08	5	1377
9516846	138428	4	2	4	-1	2B	4	1	3	25	33	B1	14	13	103	0.2	22	183	1	10	31	2.09	1	40	2	2	25	3	1	55	10	14	254	0.68	0.01	1.01	0.96	0.01	0.08	5	1201
9516847	138429	4	1	-1	-1	2B	4	-1	-1	25	3	-1	14	11	56	0.2	28	203	1	11	22	2.47	1	26	2	2	28	4	1	11	5	14	352	0.49	0.01	1.24	0.12	0.01	0.05	5	1271
9516848	138430	4	1	4	-1	2B	4	1	1	25	3	B2	12	16	60	0.2	27	160	1	12	21	2.72	1	24	2	2	29	3	1	23	5	14	456	0.44	0.01	1.29	0.25	0.01	0.05	5	1158
9516849	138431	4	1	4	-1	2B	4	1	1	25	3	B2	8	10	42	0.2	18	289	1	6	15	1.5	1	22	5	5	18	5	1	40	2	5	210	0.3	0.01	0.7	0.71	0.01	0.03	5	1345
9517395	298551	5	1	5	-1	1B	34	1	2	30	2	B	21	14	69	0.2	11	235	1	9	33	1.92	1	31	2	2	32	3	1	22	9	13	340	0.54	0.03	0.85	0.33	0.01	0.09	5	1615
9517396	298552	5	1	5	-1	1B	34	1	2	30	2	B	19	18	65	0.2	33	265	1	8	38	1.92	3	33	2	2	20	5	1	19	11	20	455	0.42	0.01	0.69	0.27	0.01	0.19	5	2218
9517397	298553	5	1	5	-1	1B	34	1	2	30	2	B	22	15	63	0.2	17	215	1	10	39	1.73	3	27	2	2	28	1	1	23	11	13	433	0.47	0.03	0.74	0.33	0.01	0.09	5	1583
9517398	298554	5	1	5	-1	1B	34	1	2	30	2	B	24	14	66	0.2	14	263	1	10	59	2.22	4	64	2	2	31	1	1	16	11	21	396	0.74	0.02	1.02	0.3	0.01	0.06	5	1990
9517399	298555	5	1	5	-1	1B	34	1	2	30	2	B	20	12	56	0.2	12	231	1	9	50	2.01	3	58	2	2	28	1	1	17	9	19	313	0.69	0.02	0.94	0.34	0.01	0.05	5	1760
9517400	298556	5	1	5	-1	1B	34	1	2	30	2	B	14	21	59	0.2	21	148	1	6	27	1.82	1	33	2	2	23	6	1	9	5	12	267	0.42	0.01	0.89	0.14	0.01	0.05	5	1841
9517401	298557	5	1	5	-1	1B	34	1	2	30	2	B	20	20	63	0.2	23	258	1	9	30	1.98	2	38	2	2	24	1	1	13	7	17	424	0.46	0.01	0.9	0.2	0.01	0.06	5	2160
9517402	298558	5	1	5	-1	1B	34	1	2	30	2	B	7	12	23	0.2	9	62	1	3	12	0.99	1	23	2	2	19	2	1	4	1	7	86	0.2	0.01	0.44	0.02	0.01	0.02	5	1329
9517403	298559	5	1	5	-1	1B	34	1	2	30	2	B	8	19	35	0.2	20	67	1	3	13	1.28	1	20	2	5	15	2	1	5	2	7	104	0.19	0.01	0.61	0.04	0.01	0.05	5	1384
9517404	298560	5	1	5	-1	1B	34	1	2	30	2	B	20	17	73	0.2	19	426	1	9	34	1.99	1	44	2	2	24	5	1	32	8	16	382	0.58	0.01	1.02	0.44	0.01	0.06	5	2305
9517405	298561	5	2	5	-1	1B	34	1	2	30	2	B	23	18	85	0.2	9	356	1	8	34	1.86	1	41	2	2	21	1	1	54	11	16	409	0.55	0.01	0.99	0.83	0.01	0.06	5	2025
9517406	298562	5	1	5	-1	1B	34	1	2	30	2	B	20	18	77	0.2	13	249	1	8	29	1.8	3	29	2	2	17	1	1	31	10	18	322	0.43	0.01	0.88	0.5	0.01	0.07	5	1878
9517407	298563	5	1	5	-1	1B	34	1	2	30	2	B	16	16	80	0.2	16	185	1	12	40	2.07	1	53	2	2	24	1	1	20	7	19	386	0.66	0.01	0.95	0.31	0.01	0.07	5	1579
9517408	298564	5	1	5	-1	1B	34	1	2	30	2	B	15	25	82	0.2	27	260	1	8	28	1.92	1	29	2	2	19	1	1	25	8	16	382	0.44	0.01	0.92	0.42	0.01	0.07	5	1801
9517409	298565	5	1	5	-1	1B	34	1	2	30	2	B	19	17	82	0.2	26	502	1	8	31	1.78	1	26	2	2	16	1	1	28	14	20	396	0.37	0.01	0.84	0.34	0.01	0.07	5	2518
9517410	298566	5	1	5	-1	1B	34	1	2	30	2	B	16	19	75	0.5	15	248	1	7	28	1.54	2	25	2	8	12	1	1	44	12	14	315	0.36	0.01	0.68	0.79	0.01	0.07	5	2068
9517411	298567	5	1	5	-1	1B	34	1	2	30	2	B	7	9	37	0.4	19	134	1	3	9	0.76	1	10	2	2	6	3	1	9	3	6	94	0.13	0.01	0.37	0.06	0.01	0.05	5	1542
9517412	298568	5	1	5	-1	1B	34	1	2	30	2	B	20	23	94	0.2	25	459	1	9	31	1.86	4	25	2	2	15	1	1	91	16	18	600	0.36	0.01	0.88	0.61	0.01	0.05	5	2348
9517413	298569	5	1	5	-1	1B	34	1	2	30	2	B	3	5	27	0.2	7	124	1	1	4	0.57	1	10	2	2	10	1	1	9	2	13	51	0.1	0.01	0.36	0.07	0.01	0.06	5	1825
9517414	298570	5	1	5	-1	1B	34	1	2	30	2	B	8	8	8	0.2	5	84	1	1	2	0.28	1	2	2	2	5	3	1	5	1	5	16	0.02	0.01	0.23	0.02	0.01	0.03	5	1526
9517415	298571	5	1	5	-1	1B	34	1	2	30	2	B	5	14	5	0.2	2	113	1	1	1	0.24	1	2	2	2	4	1	1	7	2	13	18	0.03	0.01	0.26	0.05	0.01	0.02	5	1404
9517416	298572	5	1	5	-1	1B	34	1	2	30	2	B	23	12	14	0.2	3	214	1	4	11	0.66	1	5	2	5	5	5	1	66	6	6	185	0.09	0.01	0.51	0.95	0.01	0.02	5	1388
9517417	298573	5	1	5	-1	1B	34	1	2	30	2	B	7	15	60	0.2	12	67	1	4	17	1.41	1	21	2	2	23	1	1	4	1	8	151	0.1	0.01	0.49	0.02	0.01	0.04	5	1567
9517418	298574	5	1	5	-1	1B	34	1	2	30	2	B	45	27	114	0.4	26	362	2	8	36	1.95	1	27	2	2	20	2	1	51	10	15	529	0.2	0.01	0.89	0.83	0.01	0.07	5	1919
9517419	298575	5	1	5	-1	1B	34	1	2	30	2	B	15	43	167	0.2	78	280	1	15	51	3.37	1	76	2	2	25	6	1	24	6	15	724	0.58	0.01	1.19	0.25	0.01	0.09	5	2885
9517420	298576	5	1	5	-1	1B	34	1	2	30	2	B	24	17	42	0.2	28	242	1	4	15	1.27	1	12	2	2	9	1	1	60	17	18	237	0.21	0.01	0.85	1.01	0.01	0.05	5	1662
9517421	298577	5	1	5	-1	1B	34	1	2	30	2	B	6	17	61	0.2	170	89	1	4	12	2.24	1	14	2	2	20	2	1	9	2	8	168	0.18	0.01	0.71	0.08	0.01	0.06	5	1483
9517422	298578	5	1	5	-1	1B	34	1	2	30	2	B	12	87	95	0.5	132	186	1	8	20	2.67	1	18	2	2	17	12	1	23	4	9	319	0.29	0.01	0.96	0.32	0.01	0.07	5	1665
9517423	298579	5	1	5	-1	1B	34	1	2	30	2	B	44	513	416	2.2	86	347	8	11	23	2.05	1	15	2	2	14	1	1	123	8	11	1290	0.25	0.01	0.87	1.2	0.01	0.06	5	1772
9517424	298580	5	1	5	-1	1B	34	1	2	30	2	B	10	6746	642	6.4	1427	110	6	6	18	2.79	1	5	2	7	5	9	1	39	8	11	398	0.11	0.01	0.29	0.26	0.01	0.21	84	1970
9517425	298581	5	1	5	-1	1B	34	1	2	30	2	B	16	149	220	0.6	269	129	2	8	16	4.05	2	18	2	2	18	14	1	40	7	17	364	0.21	0.01	1.03	0.42	0.01	0.1	5	2045
9517426	298582	5	1	5	-1	1B	34	1	2	30	2	B	4	35	64	0.2	57	78	1	1	4	1.02	1	2	2	7	13	1	1	26	1	6	52	0.03	0.01	0.27	0.25	0.01	0.07	5	1847
9517427	298583	5	1	5	-1	1B	34	1	2	30	2	B	5	15	26	0.2	23	112	1	1	1	0.52	1	2	2	2	6	1	1	10	1	4	58	0.04	0.01	0.42	0.07	0.01	0.04	5	1381
9517428	298584	5	1	5	-1	1B	34	1	2	30	2	B	1	24	24	0.2	35	66	1	1	2	0.97	1	7	2	2	17	1	1	3	1	10	152	0.07	0.01	0.56	0.03	0.01	0.04	5	1527
9517429	298585	5	1	5	-1	1B	34	1	2	30	2	B	6	17	57	0.2	48	184	1	5	9	1.47	1	14	2	2	14	1	1	19	3	8	258	0.24	0.01	0.75	0.19	0.01	0.04	5	1675
9517430	298586	5	1	5	-1	1B	34	1	2	30	2	B	7	19	52	0.2	76	138	1	5	16	1.77	1	18	2	2	15	11	1	11	4	12	185	0.31	0.01	0.84	0.12	0.01	0.04	5	1446
9517431	298587	5	1	5	-1	1B	34	1	2	30	2	B	10	37	85	0.2	50	121	1	5	17	3.21	4	18	2	2	28	19	1	8	6	17	274	0.32	0.01	1.38	0.07	0.01	0.09	5	1863
9517432	298588	5	1	5	-1	1B	34	1	2	30	2	B	9	40	90	0.2	50	113	1	16	16	3.1	3	19	2	2	26	3	8	6	5	14	785	0.29	0.01	0.97	0.06	0.01	0.09	5	2038
9517433	298590	5	1	5	-1	1B	34	1	2	30	2	B	13	61	335	0.2	75	255	1	11	27	2.89	3	29	2	2	24	11	1	34	10	22	1039	0.48	0.01	1.51	0.33	0.01	0.15	5	1814
9517434	298591	5	1	5	-1	1B	34	1	2	30	2	B	8	13	71	0.2	20	100	1	4	16	1.89	4	20	2	2	27	16	2	9	5	22	133	0.26	0.01	0.81	0.05	0.01	0.12	5	2053
9518050	299115	-1	1	5	2	2B	34	1	1	30	3	B	31	20	84	0.2	71	154	1	8	45	2.47	4	29	2	2	28	4	2	6	3	13	265	0.33	0.01	1.05	0.06	0.01	0.03	5	3212
9518051	299116	-1	1	5	2	2B	23	1	2	30	3	B	9	20	67	0.2	19	190	1	3	11	1.57	4	14	2	2	14	1	2	17	7	10	172	0.17	0.01	0.71	0.29	0.01	0.11	5	2007
9518052	299117	-1	1	5	2	GB	23	2	2	30	3	B	3	6	12	0.2	6	90	1	1	5	0.61	1	7	2	2	6	1	1	15	1	5	54	0.07	0.01	0.38	0.19	0.01	0.1	5	1600
9518053	299118	-1	1	5	2	2B	34	2	1	30	3	B	30	19	84	0.5	41	512	1	9	37	2.66	5	32	2	2	23	1	1	35	36	25	625	0.47	0.01	1.37	0.43	0.01	0.11	5	2291
9518054	299119	-1	2	1	2	2B	23	2	1	5	53	3	22	16	123	0.2	31	372	1	12	33	2.53	4	29	2	2	22	1	1	46	12	16	967	0.49	0.01	1.02	0.62	0.01	0.1	5	1858
9518055	299120	-1	1	5	2	2B	34	2	2	30	3	B	5	6	13	0.2	9	90	1	1	5	0.49	2	6	2	2	6	2	1	19	2	4	44	0.07	0.01	0.31	0.21	0.01	0.02	5	1373
9518056	299121	-1	1	5	2	2B	34	2	2	30	3	B	21	10	81	0.2	19	337	1	9	29	2.02	2	27	2	2	20	1	1	13	10	11	1561	0.31	0.01	1.48	0.11	0.01	0.09	5	1779
9518057	299122	-1	1	5	2	GB	24	2	2	30	3	B	3	2	16	0.2	1	131	1	2	5	0.48	1	6	2	2	5	1	1	19	1	4	198	0.06	0.01	0.33	0.24	0.01	0.03	5	1433
9518058	299123	-1	1	5	2	BK	34	3	2	30	3	B	16	5	30	0.2	17	376	1	3	11	0.98	3	12	2	2	10	6	1	85	7	9	161	0.19	0.01	0.92	1.09	0.01	0.03	5	1667
9518059	299124	-1	1	5	2	3B	34	2	2	30	3	B	14	6	38	0.2	8	231	1	3	9	0.86	1	10	2	2	8	1	1	49	8	8	157	0.17	0.01	0.91	0.63	0.01	0.02	5	1396
9518060	299125	-1	1	5	2	2B	34	2	2	30	3	B	2	2	2	0.2	3	45	1	1	2	0.16	1	2	2	2	1	1	1	8	1	1	15	0.01	0.01	0.11	0.06	0.01	0.01	5	1385
9518061	299126	-1	1	5	2	BK	34	2	2	30	3	B	16	11	53	0.2	22	413	1	8	22	1.93	3	24	2	2	20	1	2	51	11	15	403	0.34	0.01	1.23	0.51	0.01	0.04	5	1969
9518062	299127	-1	1	5	2	2B	34	2	2	30	3	B	15	8	45	0.2	7	93	1	6	23	1.72	2	23	2	2	27	5	2	17	8	13	256	0.45	0.04	0.78	0.29	0.01	0.06	5	1418
9518063	299128	-1	1	5	2	GB	34	1	2	30	3	B	15	10	57	0.2	8	165	1	7	23	1.96	4	26	2	2	26	1	3	16	8	18	316	0.46	0.02	1.05	0.26	0.01	0.04	5	1589
9518064	299129	-1	1	5	2	BK	34	2	2	30	3	B	20	16	96	0.2	26	279	1	7	28	2.39	2	26	5	2	28	1	1	33	11	17	282	0.47	0.01	1.32	0.44	0.01	0.06	5	1952

Lab,Field,S,M,O,S,C,S,O,W,Dpth,W/S,F/H,Cu,Pb,Zn,Ag,As,Ba,Cd,Co,Ni,Fe,Mo,Cr,Bi,Sb,V,Sn,W,Sr,Y,La,Mn,Mg,Ti,Al,Ca,Na,K,Au,Ba(XRF)

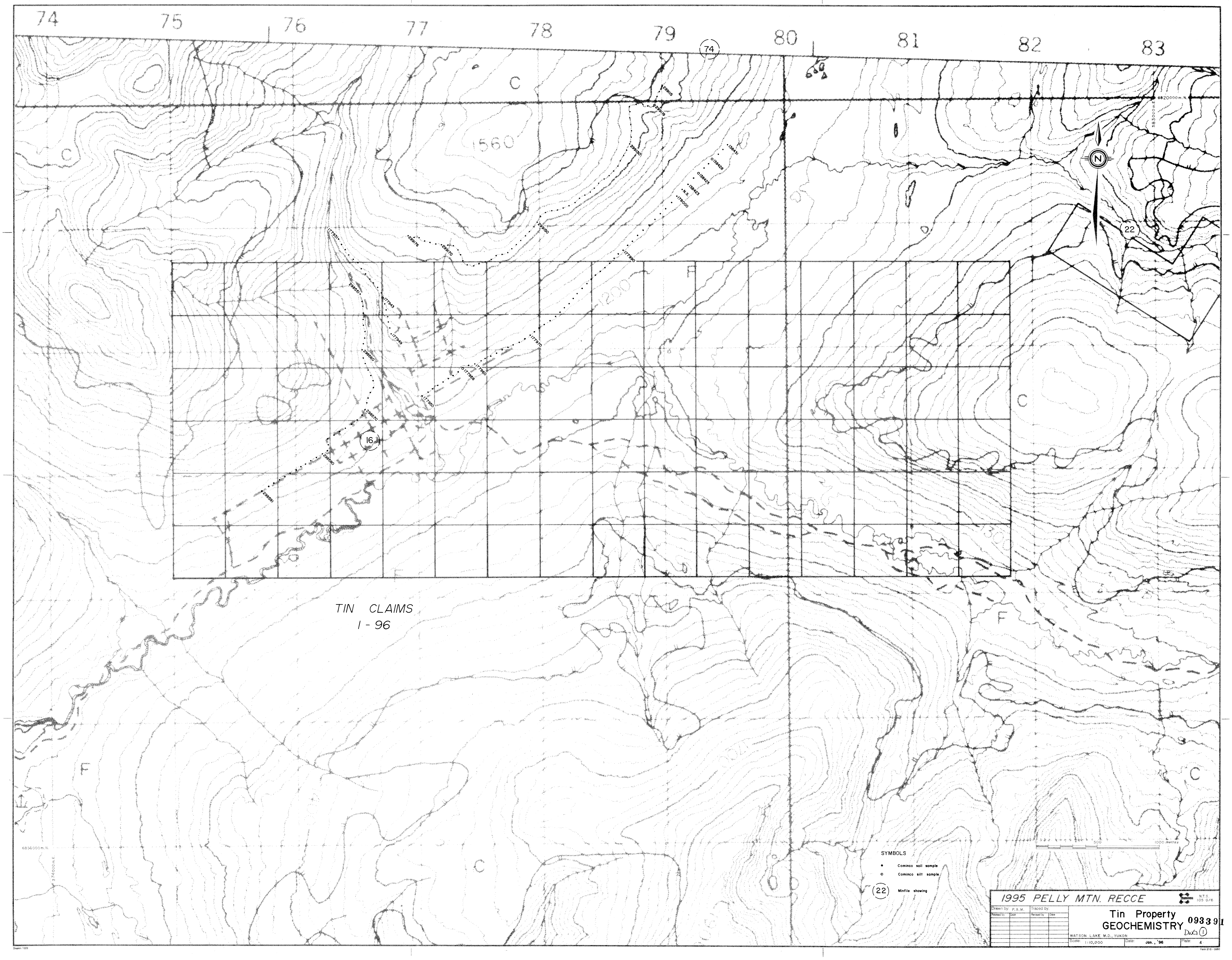
9518065	299130	-1	1	5	2	BK	34	3	2	30	3	B	12	4	24	0.2	13	300	1	3	10	0.88	2	8	2	2	8	1	1	58	6	6	231	0.11	0.01	0.75	0.72	0.02	0.02	5	1565
9518066	299131	-1	1	5	2	2B	34	2	2	30	4	B	8	4	20	0.2	8	131	1	3	8	0.78	1	7	8	2	9	2	1	34	5	7	116	0.11	0.01	0.68	0.41	0.02	0.02	5	1365
9518067	299132	-1	1	5	2	2B	34	2	2	30	4	B	1	2	5	0.2	9	22	1	1	1	0.15	1	2	2	2	4	1	1	9	1	1	27	0.02	0.01	0.1	0.12	0.04	0.01	5	1371
9518068	299133	-1	1	5	2	3B	34	3	2	30	4	B	19	9	57	0.2	3	241	1	5	16	1.56	1	14	2	2	11	1	1	96	9	9	258	0.33	0.01	0.94	1.74	0.01	0.06	5	1438
9518069	299134	-1	1	5	2	2B	34	2	2	30	4	B	33	24	97	0.2	63	312	1	11	22	2.43	3	25	2	2	18	1	1	19	8	19	460	0.34	0.01	1.56	0.24	0.01	0.05	5	2022
9518070	299135	-1	1	5	2	2B	34	2	2	30	4	B	14	10	66	0.2	17	112	1	6	11	1.32	2	12	2	2	13	1	1	11	3	10	262	0.19	0.01	0.61	0.12	0.01	0.07	5	1426
9518071	299136	-1	1	5	2	2B	34	2	2	30	4	B	18	10	43	0.2	9	150	1	9	12	1.17	2	8	6	2	12	1	10	19	2	5	1241	0.13	0.01	0.59	0.27	0.02	0.05	5	1621
9518072	299137	-1	1	5	2	2B	34	2	2	30	4	B	19	10	46	0.2	21	200	1	6	18	1.9	3	18	2	2	14	2	3	45	8	10	291	0.34	0.01	1.03	0.77	0.01	0.07	5	1940
9518073	299138	-1	1	5	2	BK	34	3	2	30	4	B	28	2	8	0.2	12	263	1	4	13	0.73	4	4	5	2	3	1	12	224	27	13	484	0.35	0.01	0.99	3.36	0.01	0.03	5	889
9518074	299139	-1	1	5	2	BK	34	3	2	30	4	B	60	30	102	0.2	32	540	1	9	34	2.62	2	18	5	2	16	1	1	91	34	20	757	0.26	0.01	1.36	1.18	0.01	0.1	5	2510
9518075	299140	-1	1	5	2	2B	34	2	2	30	4	B	8	9	32	0.2	14	105	1	5	9	1.28	2	8	6	2	12	1	1	13	2	13	295	0.12	0.01	0.53	0.17	0.01	0.11	5	1583
9518076	299141	-1	1	5	2	2B	34	1	2	30	4	B	6	15	27	0.2	17	159	1	8	7	1.56	3	9	2	2	15	3	1	10	2	19	651	0.13	0.01	0.63	0.13	0.01	0.13	5	1738
9518077	299142	-1	1	5	2	2B	34	2	2	30	4	B	14	12	51	0.2	8	120	1	11	11	1.37	2	9	2	2	11	1	1	17	2	10	778	0.14	0.01	0.55	0.25	0.02	0.1	5	1607
9518078	299143	-1	1	5	2	2B	34	2	2	30	4	B	12	14	47	0.2	72	123	1	6	14	2.05	6	13	5	2	20	1	4	9	4	26	340	0.15	0.01	0.64	0.09	0.01	0.11	5	1815
9518079	299144	-1	1	5	2	3B	34	3	2	30	4	B	36	16	32	0.2	27	339	1	9	19	1.66	4	14	10	2	18	1	1	73	13	17	1297	0.18	0.01	1.13	1.39	0.01	0.08	5	1611
9518080	299145	-1	1	5	2	GB	24	2	1	30	4	B	14	13	68	0.2	50	203	1	5	18	2.16	1	21	2	2	18	1	3	28	5	23	249	0.35	0.01	0.94	0.39	0.01	0.11	5	2142
9518081	299146	-1	1	5	2	2B	34	2	1	30	4	B	8	4	17	0.2	9	153	1	1	8	0.8	4	12	2	2	10	3	1	11	4	9	151	0.11	0.01	0.53	0.11	0.01	0.08	5	1415
9518082	299147	-1	1	5	2	2B	34	1	1	30	4	B	6	11	26	0.2	31	133	1	3	10	1.41	4	12	2	2	12	1	2	13	4	22	165	0.22	0.01	0.73	0.16	0.01	0.14	5	1711
9518083	299148	-1	1	5	2	2B	34	1	1	30	4	B	5	11	40	0.2	36	91	1	5	14	2.23	5	19	2	2	23	1	3	6	2	20	310	0.29	0.01	0.78	0.06	0.01	0.08	5	1680
9518084	299149	-1	1	5	2	2B	34	2	1	30	4	B	3	5	6	0.2	11	59	1	1	4	0.41	5	4	7	2	6	1	2	6	1	4	53	0.05	0.01	0.27	0.06	0.02	0.04	5	1323
9518085	299150	-1	1	5	2	2B	34	2	1	20	4	B	3	7	15	0.2	10	112	1	3	7	0.7	2	7	2	2	11	1	1	8	1	9	170	0.12	0.01	0.4	0.09	0.02	0.07	5	1415
9518086	299151	-1	1	5	2	2B	34	2	1	30	4	B	1	2	2	0.2	1	92	1	1	1	0.18	1	2	2	2	2	1	1	15	1	1	316	0.04	0.01	0.14	0.15	0.03	0.05	5	1320
9518087	299152	-1	1	5	2	2B	34	2	1	30	4	B	10	17	40	0.2	24	205	1	6	11	2.2	7	12	2	2	19	1	1	11	3	25	858	0.15	0.01	0.65	0.13	0.01	0.16	5	1830
9518088	299153	-1	1	5	2	2B	34	2	1	30	4	B	8	26	50	0.2	18	203	1	10	15	2.41	3	16	2	2	23	4	1	16	3	21	1328	0.22	0.01	0.79	0.23	0.01	0.16	5	1834
9518089	299154	-1	1	5	2	2B	34	1	1	30	4	B	4	6	22	0.2	17	113	1	2	7	1.23	6	8	2	2	13	1	1	7	3	43	116	0.11	0.01	0.65	0.08	0.01	0.13	5	1863
9518090	299155	-1	1	5	2	2B	34	2	1	30	4	B	4	5	17	0.2	2	122	1	2	5	0.65	1	2	2	6	5	1	1	6	1	6	277	0.05	0.01	0.43	0.07	0.02	0.06	5	1443
9518091	299156	-1	1	5	2	1B	34	2	1	30	4	B	3	2	6	0.2	7	77	1	1	3	0.27	1	2	2	2	3	1	1	5	1	9	20	0.01	0.01	0.17	0.05	0.02	0.07	5	1894
9518092	299157	-1	1	5	2	2B	34	2	1	30	3	B	6	11	55	0.2	30	165	1	2	8	1.26	4	5	2	2	13	3	1	6	2	25	169	0.05	0.01	0.65	0.05	0.01	0.12	5	2062
9518093	299158	-1	1	5	2	2B	34	2	1	30	3	B	9	19	30	0.2	6	168	1	4	6	1.79	5	2	2	2	8	1	1	13	2	11	1134	0.05	0.01	0.7	0.18	0.01	0.12	5	1380
9518094	299159	-1	1	5	2	2B	34	2	1	30	4	B	3	2	5	0.2	8	64	1	1	2	0.27	1	2	2	2	4	1	1	5	1	2	320	0.03	0.01	0.37	0.05	0.02	0.03	5	1307
9518095	299160	-1	1	5	2	1B	34	2	1	20	3	B	1	2	1	0.2	1	33	1	1	1	0.16	1	2	2	2	3	1	1	3	1	1	9	0.01	0.01	0.16	0.01	0.02	0.03	5	1358
9518096	299161	-1	1	5	2	2B	24	2	1	30	3	B	6	15	32	0.2	170	61	1	2	8	2.35	9	7	2	2	14	2	1	4	4	67	186	0.08	0.01	0.85	0.01	0.01	0.11	5	2311
9518097	299162	-1	1	5	2	2B	34	2	2	30	3	B	10	12	38	0.2	13	163	1	3	13	1.68	2	23	5	2	28	1	1	9	4	15	170	0.26	0.01	1.11	0.12	0.01	0.05	5	1385
9518098	299163	-1	1	5	2	2B	34	2	2	30	3	B	14	7	34	0.2	9	376	1	5	18	1.74	2	25	2	2	31	1	1	25	9	14	203	0.35	0.02	1.01	0.4	0.01	0.03	5	1639
9518099	299164	-1	1	5	2	2B	24	2	1	30	3	B	4	11	23	0.2	79	96	1	2	5	1.37	9	5	6	2	12	10	1	4	4	58	106	0.06	0.01	0.85	0.02	0.01	0.1	5	2205
9518100	299165	-1	1	5	2	2B	34	2	1	30	3	B	2	4	4	0.2	5	54	1	1	2	0.39	1	5	6	2	7	4	1	5	1	2	62	0.04	0.01	0.42	0.05	0.02	0.02	5	1238
9518101	299166	-1	1	5	2	2B	34	2	1	30	3	B	9	9	42	0.2	17	260	1	6	20	1.56	1	22	2	2	23	1	1	17	6	11	237	0.35	0.01	0.84	0.25	0.01	0.03	5	1755
9518102	299167	-1	1	5	2	2B	24	2	1	30	3	B	2	2	5	0.2	6	81	1	1	1	0.18	1	2	5	2	2	1	1	8	1	2	9	0.01	0.01	0.25	0.06	0.01	0.01	5	1327
9518103	299168	-1	1	5	2	2B	34	2	1	30	3	B	7	12	15	0.2	71	295	1	2	6	1.32	3	7	2	2	10	1	6	8	3	14	91	0.08	0.01	1.09	0.07	0.01	0.05	5	2567
9518104	299169	-1	1	5	2	GB	34	2	2	30	3	B	10	7	34	0.2	18	230	1	5	18	1.13	5	20	5	2	14	1	1	12	6	10	265	0.25	0.01	0.69	0.15	0.01	0.03	5	1792
9518105	299170	-1	1	5	2	2B	34	2	1	30	3	B	18	8	48	0.2	15	254	1	6	23	1.63	2	26	2	2	25	1	1	12	4	8	183	0.34	0.01	1	0.15	0.01	0.04	5	1619
9518106	299171	-1	1	5	2	2B	34	1	1	30	3	B	12	8	38	0.2	23	115	1	4	18	1.56	6	24	7	2	26	1	1	8	4	9	141	0.34	0.02	0.82	0.14	0.01	0.03	5	1564
9518107	299172	-1	1	5	2	2B	34	1	1	30	3	B	16	9	47	0.2	18	225	1	6	26	1.77	4	26	2	2	29	8	1	13	5	9	189	0.4	0.02	0.92	0.18	0.01	0.03	5	1542
9518108	299173	-1	1	5	2	2B	34	1	1	30	3	B	11	12	33	0.2	22	240	1	5	16	1.6	3	22	2	2	22	1	1	12	4	11	203	0.29	0.01	0.97	0.18	0.01	0.05	5	2141
9518109	299174	-1	1	5	2	GB	34	2	1	30	3	B	13	13	38	0.2	16	135	1	4	18	1.63	3	23	2	2	20	4	1	9	4	10	137	0.35	0.01	0.91	0.15	0.01	0.04	5	1944
9518110	299175	-1	1	5	2	2B	34	2	1	30	3	B	10	10	38	0.2	12	241	1	4	16	1.24	3	17	5	2	19	1	1	10	4	7	161	0.27	0.01	0.78	0.14	0.01	0.02	5	1656
9518111	299176	-1	1	5	2	3B	34	2	1	30	3	B	10	6	25	0.2	14	226	1	3	10	1.11	3	13	2	2	15	1	1	10	3	8	184	0.15	0.01	0.69	0.11	0.01	0.04	5	1669

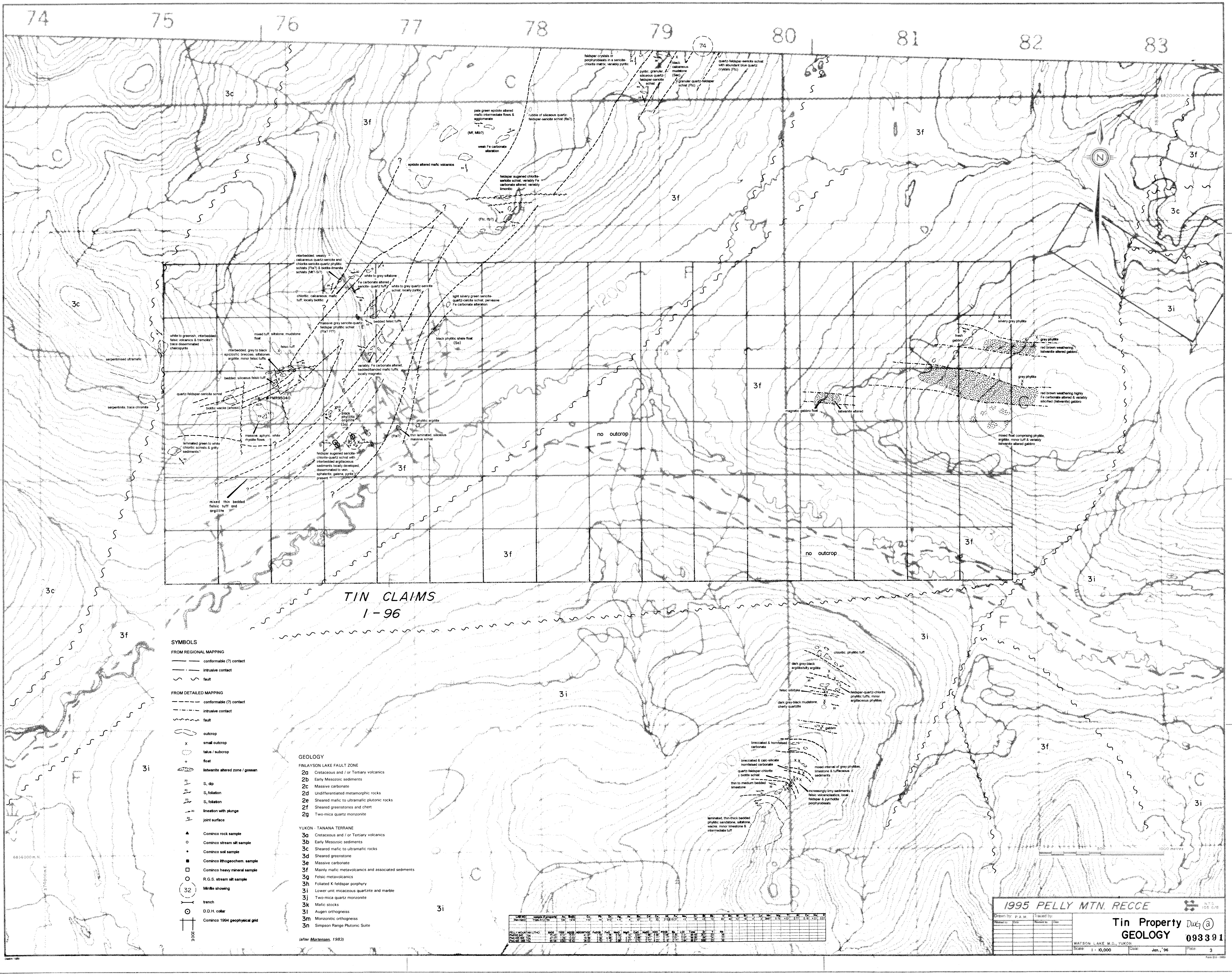
APPENDIX 3

STATEMENT OF EXPENDITURES

TIN PROPERTY

STAFF COSTS	2,625
DOMICILE	425
GEOCHEMISTRY	2,050
HELICOPTER	1,463
COMMUNICATIONS	60
EXPEDITING	355
DRAFTING	882
TOTAL	**7,860**


74
75
76
77
78
79
80
81
82
83
74
C
1560
C
F
1200
16
22
C
F
TIN CLAIMS
I - 96
F
C
C
SYMBOLS
Cominco soil sample
Cominco silt sample
22
Minfile showing
0
500
1000 metres
1995 PELLY MTN. RECCE
N.T.S.
105 G/6
Drawn by: P.A.M.
Traced by:
Tin Property
GEOCHEMISTRY
093391
DWG 1
WATSON LAKE M.D., YUKON
Scale: 1:10,000
Date: Jan., '96
Plate: 4


74
75
76
77
78
79
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81
82
83
74
3c
3f
C
N
6820000 m.N.
3c
feldspar crystals or porphyroblasts in a sericite-chlorite matrix; variably pyritic
pyritic, granular, siliceous quartz-feldspar-sericite schist
black calcareous mudstone (Sec)
granular quartz-feldspar schist (Ftc)
quartz-feldspar-sericite schist with abundant blue quartz crystals (Ftc)
pale green epidote altered mafic-intermediate flows & agglomerate
(Mf, Mtb?)
rubble of siliceous quartz-feldspar-sericite schist (fta?)
weak Fe carbonate alteration
epidote altered mafic volcanics
feldspar augened chlorite-sericite schist, variably Fe carbonate altered; variably limonitic
(Ftc, Ifp?)
interbedded, weakly calcareous quartz-sericite and chlorite-sericite-quartz phyllitic schists (Fta?) & biotite-ilmenite schists (Mt?-Si?)
white to grey siltstone
Fe carbonate altered sericite- quartz tuff
white to grey quartz-sericite schist, locally pyritic
chloritic, calcareous, mafic tuff; locally biotitic
light silvery green sericite-quartz-calcite schist, pervasive Fe carbonate alteration
massive grey sericite-quartz-feldspar phyllitic schist (Fta? Ff?)
bedded felsic tuffs
black phyllitic shale float (Sa)
white to greenish, interbedded felsic volcanics & tremolite?; trace disseminated chalcopyrite
mixed tuff, siltstone, mudstone float
felsic tuff
interbedded, grey to black epiclastic breccias, siltstones, argillite, minor felsic tuffs
serpentinised ultramafic
bedded, siliceous felsic tuff
variably, Fe carbonate altered, bedded/banded mafic tuffs, locally magnetic
quartz-feldspar-sericite schist
PMR95040
biotitic wacke (arkosic)
serpentinite; trace chromite
black phyllitic argillite (Sa)
phyllitic argillite
(Fta?)
thin laminated, siliceous massive schist
massive, aphyric, white rhyolite flows
laminated green to white chloritic schists & gritty sediments?
feldspar augened sericite-chlorite-quartz schist with interbedded argillaceous sediments locally developed; disseminated to vein, sphalerite, galena, pyrite present
mixed thin bedded felsic tuff and argillite
no outcrop
1200
silvery grey phyllite
fresh gabbro
grey phyllite
red brown weathering, listwanite altered gabbro
grey phyllite
red brown weathering highly Fe carbonate altered & variably silicified (listwanite) gabbro
magnetic gabbro float
listwanite altered
mixed float comprising phyllite, argillite, minor tuff & variably listwanite altered gabbro
3i
no outcrop
TIN CLAIMS
1-96
F
chloritic, phyllitic tuff
dark grey-black argillite/silty argillite
felsic sill/dyke
feldspar-quartz-chlorite phyllitic tuffs; minor argillaceous phyllites
dark grey-black mudstone, cherty quartzite
gabbro
brecciated & hornfelsed carbonate
brecciated & calc-silicate hornfelsed carbonate
quartz-feldspar-chlorite ± biotite schist
mixed interval of grey phyllites, limestone & tuffaceous sediments
thin to medium bedded limestone
increasingly limy sediments & felsic volcaniclastics; local feldspar & pyrrhotite porphyroblasts
laminated, thin-thick bedded phyllitic sandstone, siltstone, wacke; minor limestone & intermediate tuff
6814000 m.N.
0
500
1000 metres
SYMBOLS
FROM REGIONAL MAPPING
conformable (?) contact
intrusive contact
fault
FROM DETAILED MAPPING
conformable (?) contact
intrusive contact
fault
outcrop
small outcrop
talus / subcrop
float
listwanite altered zone / gossan
S1 dip
S2 foliation
S3 foliation
lineation with plunge
joint surface
Cominco rock sample
Cominco stream silt sample
Cominco soil sample
Cominco lithogeochem. sample
Cominco heavy mineral sample
R.G.S. stream silt sample
32
Minfile showing
trench
D.D.H. collar
Cominco 1994 geophysical grid
200E
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)
1995 PELLY MTN. RECCE
N.T.S. 105 G/6
Drawn by: P.A.M.
Traced by:
Revised by
Date
Tin Property
GEOLOGY
DWG ②
093391
WATSON LAKE M.D., YUKON
Scale: 1 : 10,000
Date: Jan., '96
Plate: 3

LAB NO	sample #	property	Au	Ba(t)	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K
R9515832	TS95-R12	TIN	100	1918	110	<4	313	<4	4	97	2	33	213	E15.27	<2	78	<5	13	82	40	<2	18	4	3	2887	0.75	<.01	0.77	0.18	<.01	0.07

PELLY MOUNTAIN LITHO		SiO2	TiO2	Al2O3	Al2O3/TiO2	Fe2O3	FeO	MnO	MgO	CaO	Na2O	K2O	P2O5	Ba	LOI	Total	Zr	Y	Nb
PMR95 040	TIN	72.42	0.31	13.01	41.97	1.10	1.25	0.04	.15	0.61	1.98	4.00	0.08	0.20	2.31	98.48	307	53	38
PMU95 065	TIN	47.27	1.23	13.02	10.59	2.39	4.90	0.13	5.75	13.66	3.47	0.11	0.17	0.01	5.97	98.08	94	24	22
PMU95 066	TIN	65.58	0.60	15.62	26.03	2.70	1.18	0.06	0.57	0.75	0.72	6.22	0.16	0.17	2.64	98.97	559	53	38

74 75 76 77 78 79 80 81 82 83

6820000 m. N.

383000 m. E.

1 YB49431	3 YB49433	5 YB49435	7 YB49437	9 YB49439	11 YB49441	13 YB49443	15 YB49445	17 YB49447	19 YB49449	21 YB49451	23 YB49453	25 YB49455	27 YB49457	29 YB49459	31 YB49461
2 YB49432	4 YB49434	6 YB49436	8 YB49438	10 YB49440	12 YB49442	14 YB49444	16 YB49446	18 YB49448	20 YB49450	22 YB49452	24 YB49454	26 YB49456	28 YB49458	30 YB49460	32 YB49462
33 YB49463	35 YB49465	37 YB49467	39 YB49469	41 YB49471	43 YB49473	45 YB49475	47 YB49477	49 YB49479	51 YB49481	53 YB49483	55 YB49485	57 YB49487	59 YB49489	61 YB49491	63 YB49493
34 YB49464	36 YB49466	38 YB49468	40 YB49470	42 YB49472	44 YB49474	46 YB49476	48 YB49478	50 YB49480	52 YB49482	54 YB49484	56 YB49486	58 YB49488	60 YB49490	62 YB49492	64 YB49494
65 YB49495	67 YB49497	69 YB49499	71 YB49501	73 YB49503	75 YB49505	77 YB49507	79 YB49509	81 YB49511	83 YB49513	85 YB49515	87 YB49517	89 YB49519	91 YB49521	93 YB49523	95 YB49525
66 YB49496	68 YB49498	70 YB49500	72 YB49502	74 YB49504	76 YB49506	78 YB49508	80 YB49510	82 YB49512	84 YB49514	86 YB49516	88 YB49518	90 YB49520	92 YB49522	94 YB49524	96 YB49526

TIN CLAIMS
1-96

6814000 m. N.

374000 m. E.

500 0 1000 metres

1995 PELLY MTN. RECCE

N.T.S. 105 G/6

Drawn by: P.A.M.

Traced by:

Tin Property Dwg (3)

CLAIMS 093391

WATSON LAKE M.D., YUKON

Scale: 1:10,000

Date: Jan., '96

Plate: 2