

MAP NO.: ASSESSMENT REPORT X
105 0 1 PROSPECTUS X
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092758
MINING DISTRICT: Watson Lake
TYPE OF WORK: Geochemical

REPORT FILED UNDER: Cominco Limited

DATE PERFORMED: August 29-30, 1988

DATE FILED: 10 November, 1989

LOCATION: LAT.: 63° 08'N

AREA: MacMillan Pass

LONG.: 130° 07'W

VALUE \$: 3900.00

CLAIM NAME & NO.: JERRY 1-26 YB 15501-26

WORK DONE BY: D. Rhodes

WORK DONE FOR: Cominco Limited

DATE TO GOOD STANDING:

REMARKS: #1 TOM Contour soil geochemical sampling (107 samples) was done in conjunction with a brief geological investigation. Samples were analyzed for Pb,Zn,Ag,Cu,Fe,Mn and Ba. Two high silver values (9.4 and 7.0 ppm) in the central stream traverse deserve follow up.

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 105-0/1

1989 ASSESSMENT REPORT - GEOCHEMISTRY
TOM EAST PROPERTY - JERRY CLAIMS
WATSON LAKE MINING DISTRICT, YUKON TERRITORY



LATITUDE: 63°08'N

LONGITUDE: 130°07'W

WORK PERIOD: AUGUST 29-30, 1989

092158

November, 1989

D. RHODES

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
rehabilitation work in the amount
of 3,900.

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

ASSESSMENT REPORT - 1989
JERRY PROPERTY

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Plate 89-2	Soil sample locations
Plate 89-3	Soil geochemistry Pb, Zn, Ag (ppm)
Plate 89-4	Soil geochemistry Ba, Mn (ppm)
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EXPLORATION

COMINCO LTD.

WESTERN DISTRICT

NTS: 10501

November, 1989

ASSESSMENT REPORT - 1989

JERRY CLAIMS

1. SUMMARY

The twenty-six Jerry claims were staked in 1988 adjoining the Tom mining leases to the south.

The work undertaken on these claims in 1988 was limited to contour soil geochemical sampling and a brief geological examination over two days (August 29 and 30) by three Cominco personnel. In total 107 soil samples were taken from fines derived from talus or colluvium in this alpine terrain. The samples were processed and analyzed for Pb, Zn, Ag, Cu, Fe, Mn and Ba at Cominco's Vancouver Research Lab.

The analytical data is presented in Appendix D and on Plates 89-3, 89-4 and 89-5 of this report. Based on a much larger population of soil samples taken on the Tom East claims in 1988 clearly anomalous values for Pb, Zn and Ag are regarded as values greater than 200, 1500 and 6 ppm respectively, moderately anomalous samples for Pb, Zn and Ag are greater than 100, 500 and 2 ppm respectively. Based on these threshold values there are no clearly anomalous values in the 1989 survey barring two high silver values on the central stream traverse. Some moderately anomalous lead/silver values occur on the western-most contour traverse. Barium values are elevated reflecting the generally high barium content of the Portrait Lake Formation. Only one sample at 17,405 ppm barium is clearly anomalous and coincides with an outcropping horizon of wispy laminated to nodular barite in the southeast corner of the claim group (Plates 89-1 and 89-4). No manganese values are significantly anomalous within the survey. Copper and iron are moderately enriched on the south end of the western-most two traverses where they overlie a diamictite unit and probably reflect somewhat elevated values in this lithology.

It is concluded that none of the soil analyses pinpoints a significant anomaly, however, a scattering of samples are moderately anomalous and deserve some further follow-up. In particular the anomalous silver values in the stream traverse corroborate a silver anomaly defined by previous HBM&S work and should be further examined.

It is recommended that a detailed (1:5000) mapping and prospecting program be undertaken on the claims.

2. LOCATION

The Jerry claim group is comprised of 26 claims staked in 1988 adjoining the Tom mining leases on their south boundary. The claims in part overlap the Tome claim group staked adjoining the eastern boundary of the Tom mining leases. The claims lie in NTS block 105-0-1, Watson Lake mining district and are centred about latitude 63°08'N and longitude 130°07'W.

3. TENURE

All of the Jerry claims are 100% Cominco owned. Assessment dates are tabulated below.

<u>Claim Name</u>	<u>Recorded</u>	<u>Original Assessment Due Date</u>
Jerry 1-26	October 11, 1988	October 11, 1989

4. HISTORY

In 1979 Hudsons Bay Mining and Smelting Ltd. staked Tom claims 147 to 183 south of their mining lease. Subsequently between 1980 and 1986 their work on the claims included mapping, grid soil sampling, a magnetometer survey and trenching. In 1987 HBM&S allowed their claims to lapse.

Cominco Ltd. restaked a part of these claims in 1988 as the Jerry claims because:

- (i) the favourable Tom stratigraphy outcropped/subcropped in this area
- (ii) Cominco was undertaking active exploration on the adjoining Tom leases.

5. WORK IN 1989

(i) Objective

The objective of the 1989 work was to provide a rapid preliminary examination of the Jerry claims by undertaking contour soil geochemistry.

(ii) Soil Geochemistry

Five soil geochemistry traverses were undertaken on the Jerry claims on August 29 and 30. Two were run at the 1650 and 1700 metre contours on the west side of the valley that bisects the Jerry claims while two lines were taken at the 1650 and 1700 metre contours on the east side of the valley. A further line of samples

were taken along the bank of the central stream. Samples were taken at 50 metre intervals along these lines. The sample locations and lines are shown on Plate 89-2 with results plotted on Plates 89-3, 89-4 and 89-5. The results are plotted on a geology map base (Plate 89-1) which is largely derived from previous work by HBM&S and by Abbot (1982) though it is augmented by some 1989 observations.

In total 107 samples were taken on the property. All of the samples were shipped to Cominco's Exploration Research Laboratory in Vancouver, B.C. for analysis. The samples were dried and screened. The -80 mesh size fraction was then digested by a 20% nitric acid solution and the lead, zinc, silver, copper, iron and manganese contents were determined by atomic absorption. The barium content was analyzed by x-ray fluorescence. All of the analyses are presented in Appendix D.

All of the samples were taken in alpine terrain above tree line and hence no true soil profiles were sampled. The "soils" taken comprise fines gathered from rock talus slopes and from material with greater downslope transport-colluvium.

6. RESULTS OF 1989 SOIL GEOCHEMISTRY PROGRAM

A previous soil geochemical program conducted in 1988 on the adjacent Tome claims was much more extensive (647 samples) but over similar terrain and rocks (Rhodes, 1988). Statistical analysis of this larger population showed that clearly anomalous values for Pb, Zn and Ag were greater than 200, 1500 and 6 ppm respectively while moderately anomalous samples were greater than 50, 500 and 2 ppm respectively.

Viewing the 1989 Jerry results in light of these thresholds there are no clearly anomalous values barring two high silver values at 9.4 ppm and 7.0 ppm on the stream traverse. These values lie close to and corroborate in part an area of high silver values defined by HBM&S and subsequently trenched by them (Plate 89-1). A few moderately anomalous lead/silver values occur on the western-most contour line. Barium values are elevated reflecting the generally high barium content of the Portrait Lake Formation Earn group. Only one sample at 17,405 ppm barium is clearly anomalous and coincides with an outcropping horizon of wispy laminated to nodular barite in the southeast corner of the claim group (Plates 89-1, 89-4). No manganese values are significantly anomalous within the survey. Copper and iron are moderately enriched on the south end of the western-most two traverses where they overlie a diamictite unit probably reflecting somewhat elevated values in this lithology.

7. CONCLUSIONS

It is concluded that none of the soil analyses pinpoints a significant anomaly however a scattering of samples are moderately anomalous and deserve some further follow-up. In particular the anomalous silver values in the stream traverse confirm a previous HBM&S anomaly and should be further examined.

8. RECOMMENDATIONS

It is recommended that a detailed (1:5000) mapping and prospecting program be undertaken on the claims.

9. REFERENCES

- Abbot, G, 1982;
Structure and Stratigraphy of the Macmillan Fold Belt - Evidence for Devonian Faulting; DIAND Open File.
- Bidwell, G.;
Assessment Report on Tom 147-183 Trenching Program, September 1985.
- Rhodes, D.;
1988 Assessment Report - Geochemistry Tom East Property - Tome Claims.
- Stroshein, R, 1980;
Geological-Geochemical Assessment Report Tom 147-183 August 17-25, 1980.
- Stroshein, R, 1981;
Geochemical, Magnetic Geological and Trenching Assessment Report on Tom 147-183, July-September 1981.

Reported by: *D. Rhodes*
D. Rhodes
Senior Geologist

Approved for Release by: *JR for JMH*
J.M. Hamilton
Manager Exploration,
Project Development

DR/jd

Distribution: Mining Recorder (2); Western District

FIGURE 1: LOCATION MAP OF JERRY CLAIMS



1989 ASSESSMENT REPORT
TOM EAST PROPERTY - JERRY CLAIMS

APPENDIX "A"

STATEMENT OF EXPENDITURES
AUGUST 29-30, 1989

Salaries:

D. Rhodes (Senior Geologist)	2 days @ \$398.33	\$ 796.66
E. Woolven (Field Technician)	2 days @ \$188.88	377.76
T. MacRobbie (Junior Geologist)	1 day @ \$188.88	188.88

Geochemistry:

107 soil samples prepared and analyzed for Cu, Pb, Zn, Ba @ \$12.75 per sample		1,364.25
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Accommodation:

Tom camp room and board, 5 mandays @ \$80/day		400.00
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Vehicle Lease

300.00

Drafting

600.00

Report writing, 1 manday - D. Rhodes @ \$398.33

398.33

TOTAL ESTIMATED EXPENDITURES

\$4,425.88

APPENDIX "B"

AFFIDAVIT

I, Dereck Rhodes, of the District of North Vancouver, in the Province of British Columbia, make oath and say:

1. THAT I am employed as a Senior Geologist by Cominco Ltd., and as such have a personal knowledge of the facts to which I hereinafter depose;
2. THAT annexed hereto and marked as Appendix "A" to this my affidavit is a true copy of expenditures incurred in connection with a soil geochemical program carried out on the Jerry mineral claims;
3. THAT said expenditures were incurred on the days of August 29 and 30, 1989 for the purpose of mineral exploration on the noted claims.



Dereck Rhodes
Senior Geologist

DR/jd


November, 1989

APPENDIX "C"

STATEMENT OF QUALIFICATIONS

I, Dereck Rhodes, of the District of North Vancouver, in the Province of British Columbia, hereby certify:

1. THAT I am a geologist residing at 2514 Bronte Road, North Vancouver, British Columbia with a business address at 700-409 Granville Street, Vancouver, British Columbia.
2. THAT I graduated with a B.Sc. in geology from McMaster University, Hamilton, Ontario in 1969
3. THAT I have practised geology with Cominco Ltd. from June, 1969 to the present.



Dereck Rhodes
Senior Geologist

DR/jd

November, 1989

APPENDIX "D"
SOIL GEOCHEMISTRY DATA

TOM EAST-MID

JOB U 89-04756

JERRY CLATHS

REPORT DATE 11 OCT 1989

LAD NO	FIELD NUMBER	EAST+ WEST-	NORTH+ SOUTH-	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Fe %	Mn PPM	Ba PPM
SB917005	93578	-1650	+0	1.1	192	49	113	12.3	83	1093
SB917006	93579	-1650	+50	1.8	139	81	99	16.6	141	1157
SB917007	93580	-1650	+100	1.4	44	24	49	3.76	37	1076
SB917008	93581	-1650	+150	.9	58	33	44	6	47	1927
SB917009	93582	-1650	+200	2.3	106	63	81	12.4	70	1114
SB917010	93583	-1650	+250	.5	60	41	72	9.3	69	1370
SB917011	93584	-1650	+300	1.3	81	50	93	10.8	111	1282
SB917012	93585	-1650	+377	1.4	25	28	54	3.46	62	1371
SB917013	93586	-1650	+400	.6	23	28	33	2.7	33	1282
SB917014	93587	-1650	+450	.7	27	44	62	3.48	93	2254
SB917015	93588	-1650	+500	1.7	41	37	60	3.83	60	2084
SB917016	93589	-1670	+670	2.3	28	34	68	3.39	142	1916
SB917017	93590	-1660	+720	1.2	77	52	137	8.4	237	2419
SB917018	93591	-1660	+780	1.6	22	42	84	2.81	64	1884
SB917019	93592	-1645	+830	1	45	48	125	3.12	58	2827
SB917020	93593	-1645	+880	1.2	55	54	137	3.74	56	3220
SB917021	93595	-1645	+1015	1	23	52	55	3.04	37	4124
SB917022	93596	-1645	+1065	.7	18	52	56	3.07	32	4300

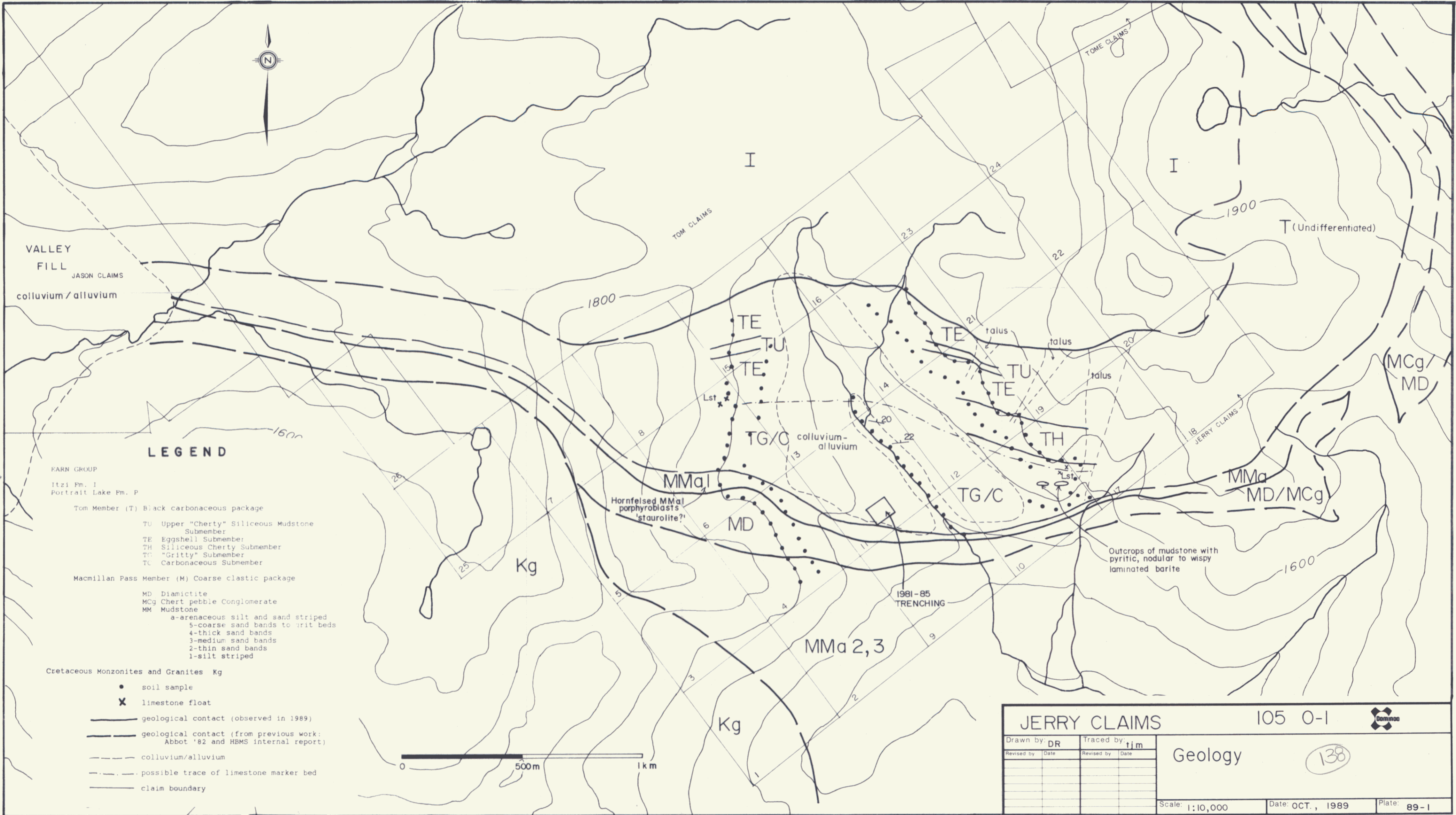
LAB NO	FIELD NUMBER	EAST+ WEST-	NORTH+ SOUTH-	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Fe %	Mn PPM	Ba PPM
SB917023	93770	+1575	-950	.9	14	24	23	1.01	47	3695
SB917024	93771	+1575	-1000	.8	16	38	37	2.35	68	4929
SB917025	93772	+1575	-1050	1	28	35	41	3.02	76	E6366
SB917026	93777	+1575	-1100	.6	28	36	65	8.1	63	E15791
SB917027	93778	+1575	-1150	.6	26	33	83	5.4	108	4111
SB917028	93779	+1575	-1200	.6	21	22	97	2.8	152	3451
SB917029	93780	STREAM	+0	<.4	21	13	112	18.1	327	1470
SB917030	93781	STREAM	+50	.8	24	15	54	15.3	70	1223
SB917031	93782	STREAM	+95	.6	21	22	61	9.7	97	1764
SB917032	93783	STREAM	+150	.6	18	20	44	3.06	104	1940
SB917033	93784	STREAM	+200	.8	19	23	66	5.8	132	2378
SB917034	93785	STREAM	+250	9.4	39	22	69	10.7	87	1772
SB917035	93786	STREAM	+300	7	18	10	34	3.93	42	1358
SB917036	93787	STREAM	+350	.4	13	14	65	7	48	1486
SB917037	93788	STREAM	+400	<.4	19	21	56	3.96	100	2071
SB917038	93789	STREAM	+460	<.4	18	17	59	3.13	119	1976
SB917039	93790	STREAM	+500	<.4	12	9	33	2.1	80	1526
SB917040	93791	STREAM	+550	1.5	23	13	52	3.72	82	1691
SB917041	93792	STREAM	+600	<.4	14	18	55	3.45	156	1956
SB917042	93793	STREAM	+650	<.4	14	12	43	2.74	94	1605
SB917043	93794	STREAM	+700	<.4	26	24	81	5.6	234	2093
SB917044	93662	-1700	+0	1.2	51	51	70	8.7	77	1137
SB917045	93663	-1700	+50	1.6	124	64	97	12.3	83	1062
SB917046	93664	-1700	+100	2.5	108	101	74	15.2	82	1051
SB917047	93665	-1700	+150	2	131	54	52	12.2	48	1076
SB917048	93666	-1700	+200	2.5	77	80	62	12.8	54	979
SB917049	93667	-1700	+250	.4	81	15	57	3.8	85	977
SB917050	93668	-1700	+300	1	66	29	78	7.3	104	1364
SB917051	93669	-1700	+350	.6	54	21	57	4.9	57	1283
SB917052	93670	-1700	+400	<.4	53	23	69	4.9	131	1448
SB917053	93671	-1700	+450	.7	57	38	72	5.3	106	1458
SB917054	93672	-1700	+500	1	45	40	62	7.3	59	1744
SB917055	93673	-1700	+550	1	1	1	1	1	1	1671
SB917056	93674	-1700	+600	1.6	53	80	261	7.8	43	1691
SB917057	93675	-1700	+650	1.3	71	104	245	9.7	86	1956
SB917058	93676	-1700	+700	1	38	56	255	6.4	62	2928
SB917059	93677	-1700	+750	1.3	20	47	101	3.45	31	3479
SB917060	93678	-1700	+800	1.9	30	48	159	4.6	193	2077
SB917061	93679	-1700	+850	2.7	25	54	178	3.35	117	2069
SB917062	93680	-1700	+900	4.5	42	134	214	7.4	187	2977
SB917063	93681	-1700	+950	1.9	28	89	148	6	97	2898
SB917064	93682	-1700	+1000	1.1	60	68	153	5.9	71	3150
SB917065	93683	-1700	+1050	2.8	67	99	178	13.6	165	2345
SB917066	93684	-1700	+1100	5.8	91	130	180	16.7	137	1961
SB917067	93685	+1700	+0	<.4	8	8	27	1.22	74	1181
SB917068	93686	+1700	-50	<.4	23	14	121	5.3	514	1849
SB917069	93687	+1700	-100	<.4	20	15	69	3.71	311	1733
SB917070	93688	+1700	-150	<.4	22	21	135	3.54	540	1737
SB917071	93689	+1700	-200	.4	12	11	34	1.33	36	1663
SB917072	93690	+1700	-250	<.4	15	10	41	1.95	84	1344
SB917073	93691	+1700	-300	1.4	40	45	201	10.3	76	2572
SB917074	93692	+1700	-350	2.2	57	45	128	10.1	62	2482
SB917075	93693	+1700	-400	2	67	39	195	14.2	232	2587
SB917076	93695	+1700	-500	1.2	27	27	168	5.4	111	2201

LAB NO	FIELD NUMBER	EAST+ WEST-	NORTH+ SOUTH-	AG PPM	CU PPM	PB PPM	ZN PPM	FE %	MN PPM	BA PPM
S8917077	93696	+1700	-550	.6	9	11	36	1.39	52	1373
S8917078	93697	+1700	-600	.9	14	19	34	2.43	40	2910
S8917079	93698	+1700	-650	2.6	15	43	32	7	42	4048
S8917080	93699	+1700	-700	.9	10	24	21	3.1	24	2550
S8917081	93701	+1700	-750	1.1	17	25	21	1.91	41	2595
S8917082	93702	+1700	-800	1.9	19	39	30	2.78	53	2801
S8917083	93703	+1700	-850	1.4	16	23	41	2.65	33	2123
S8917084	93704	+1700	-900	1.9	20	50	65	2.72	69	2493
S8917085	93705	+1700	-950	1.8	17	47	27	2.85	49	2372
S8917086	93706	+1700	-1000	3.6	10	99	22	5.8	24	3266
S8917087	93707	+1700	-1050	2.5	10	73	44	4.08	49	3503
S8917088	93709	+1700	-1100	1.8	9	49	22	3.55	64	3502
S8917089	93710	+1700	-1150	1.1	9	27	25	1.72	52	1788
S8917090	93711	+1700	X+50	1.4	11	67	24	3.05	48	4021
S8917091	93712	+1700	X+100	1.9	13	61	36	3.69	75	3959
S8917092	93713	+1700	X+160	1.3	29	61	72	7.9	47	E17405
S8917093	93760	+1650	-450	.7	11	5	34	1.3	238	1441
S8917094	93761	+1650	-500	.8	18	16	56	2.69	122	1808
S8917095	93762	+1650	-550	<.4	5	<4	5	.56	5	1107
S8917096	93763	+1650	-600	1.6	11	22	47	2.35	27	2488
S8917097	93764	+1650	-650	.6	16	33	65	3.08	43	2594
S8917098	93765	+1650	-700	1.5	29	48	81	5.3	160	2878
S8917099	93766	+1650	-750	1.1	21	21	55	2.5	59	2783
S8917100	93767	+1650	-800	1.4	20	38	81	3.43	83	2687
S8917101	93768	+1650	-850	1	14	37	40	2.47	44	2409
S8917102	93769	+1650	-900	3	16	75	29	6.1	48	4551
S8917103	93751	+1650	+0	<.4	11	11	52	3.26	120	1457
S8917104	93752	+1650	-50	<.4	18	11	90	3.28	177	1877
S8917105	93753	+1650	-100	<.4	18	7	99	3.08	179	1725
S8917106	93754	+1650	-150	<.4	13	6	77	2.8	126	1134
S8917107	93755	+1650	-200	1	38	14	227	3.54	511	2515
S8917108	93756	+1650	-250	<.4	17	20	70	3.69	132	2152
S8917109	93757	+1650	-300	<.4	15	9	29	1.6	161	1264
S8917110	93758	+1650	-350	<.4	31	17	92	3.93	343	2061
S8917111	93759	+1650	-400	<.4	16	15	78	3.08	127	1695

I=INSUFFICIENT SAMPLE X=SMALL SAMPLE E=EXCEEDS CALIBRATION C=BEING CHECKED R=REVISED
 IF REQUESTED ANALYSES ARE NOT SHOWN RESULTS ARE TO FOLLOW

ANALYTICAL METHODS

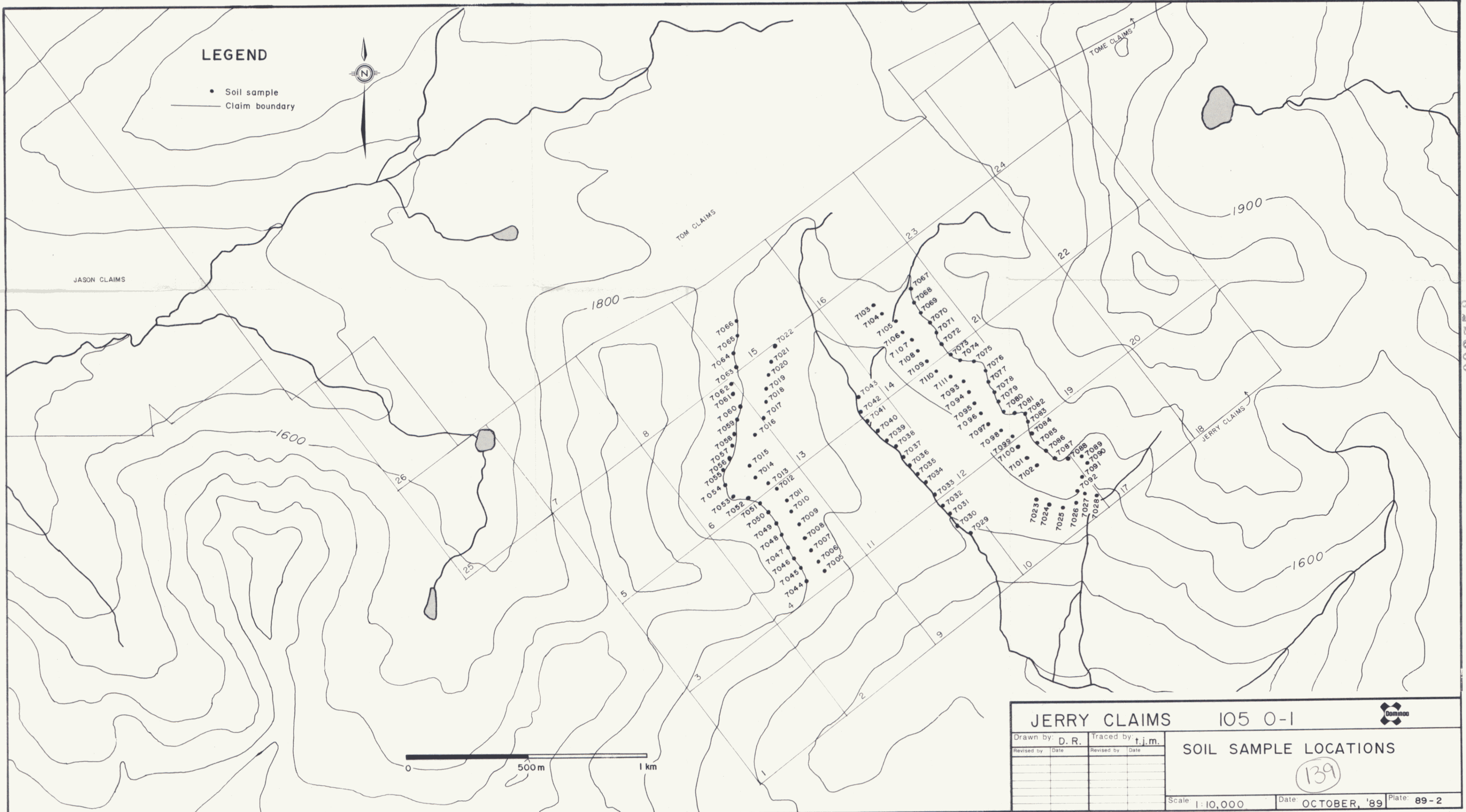
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 CU 20% HNO3 DECOMPOSITION / AAS
 PB 20% HNO3 DECOMPOSITION / AAS
 ZN 20% HNO3 DECOMPOSITION / AAS
 FE 20% HNO3 DECOMPOSITION / AAS
 MN 20% HNO3 DECOMPOSITION / AAS
 BA X-RAY FLUORESCENCE / LOOSE POWDER



092758

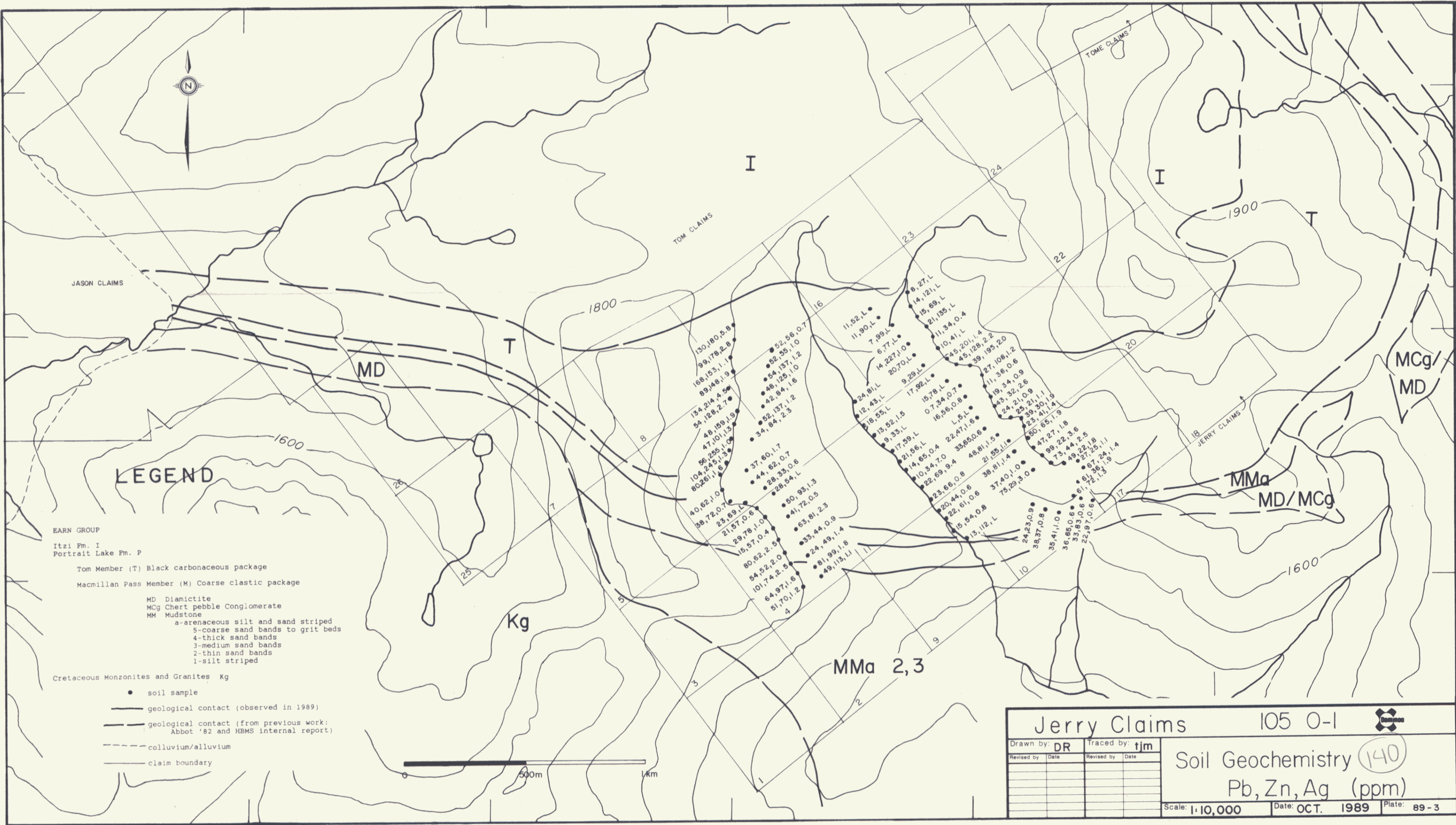
LEGEND

- Soil sample
- Claim boundary



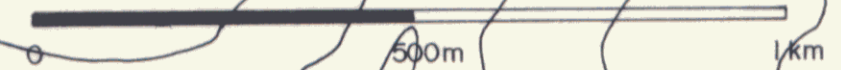
JERRY CLAIMS		105 0-1	
Drawn by: D.R.		Traced by: r.j.m.	
Revised by	Date	Revised by	Date
SOIL SAMPLE LOCATIONS		(139)	
Scale: 1:10,000	Date: OCTOBER, '89	Plate: 89-2	

092758



LEGEND

- EARN GROUP
 Itzi Fm. I
 Portrait Lake Fm. P
- Tom Member (T) Black carbonaceous package
 Macmillan Pass Member (M) Coarse clastic package
- MD Diamictite
 MCg Chert pebble Conglomerate
 MM Mudstone
 a-arenaceous silt and sand striped
 5-coarse sand bands to grit beds
 4-thick sand bands
 3-medium sand bands
 2-thin sand bands
 1-silt striped
- Cretaceous Monzonites and Granites Kg
- soil sample
 — geological contact (observed in 1989)
 - - - geological contact (from previous work: Abbot '82 and HBMS internal report)
 - - - colluvium/alluvium
 — claim boundary

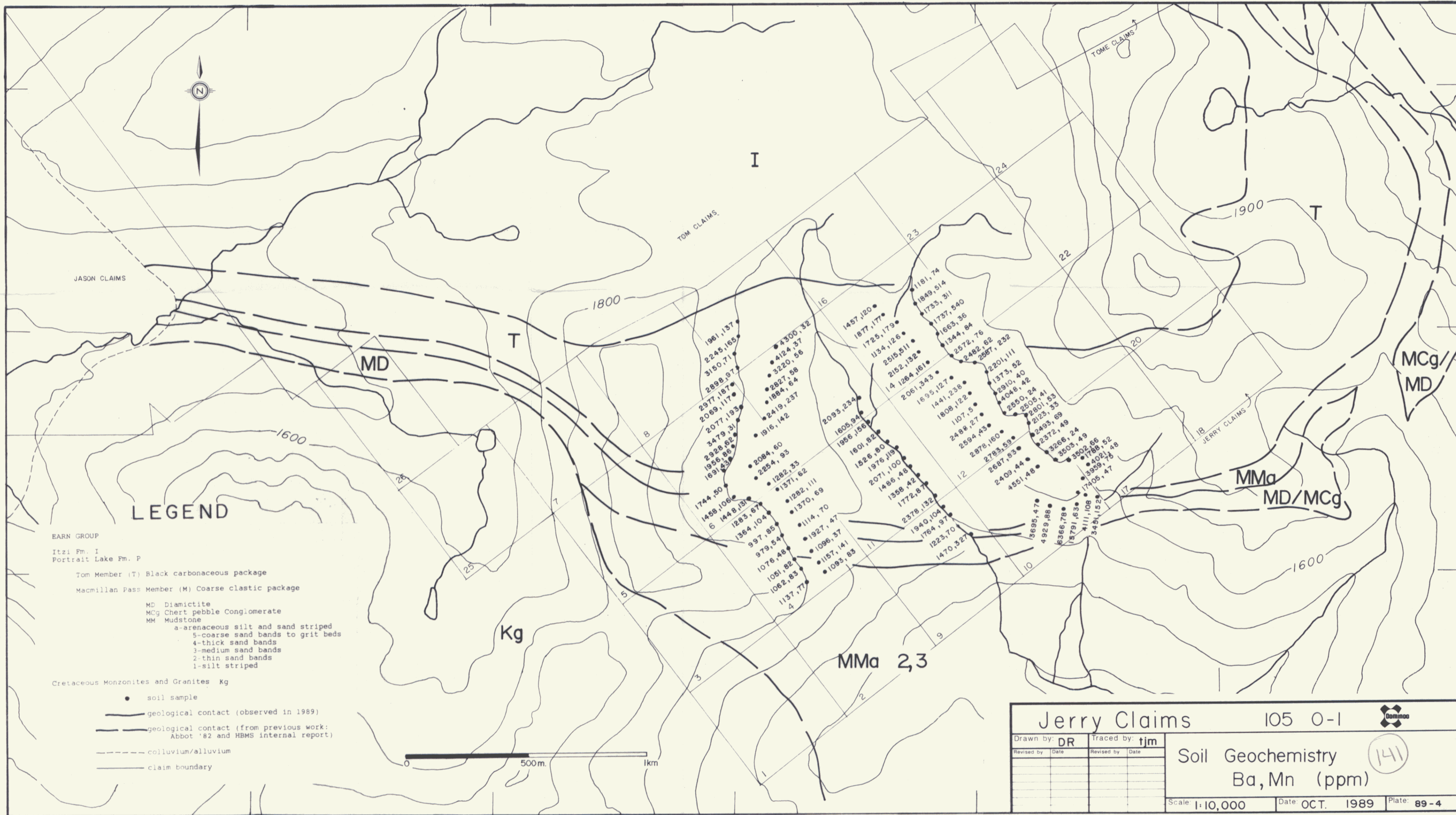


Jerry Claims 105 0-1

Drawn by: DR	Traced by: tjm
Revised by: Date	Revised by: Date

Soil Geochemistry **140**
 Pb, Zn, Ag (ppm)

Scale: 1:10,000 Date: OCT. 1989 Plate: 89-3



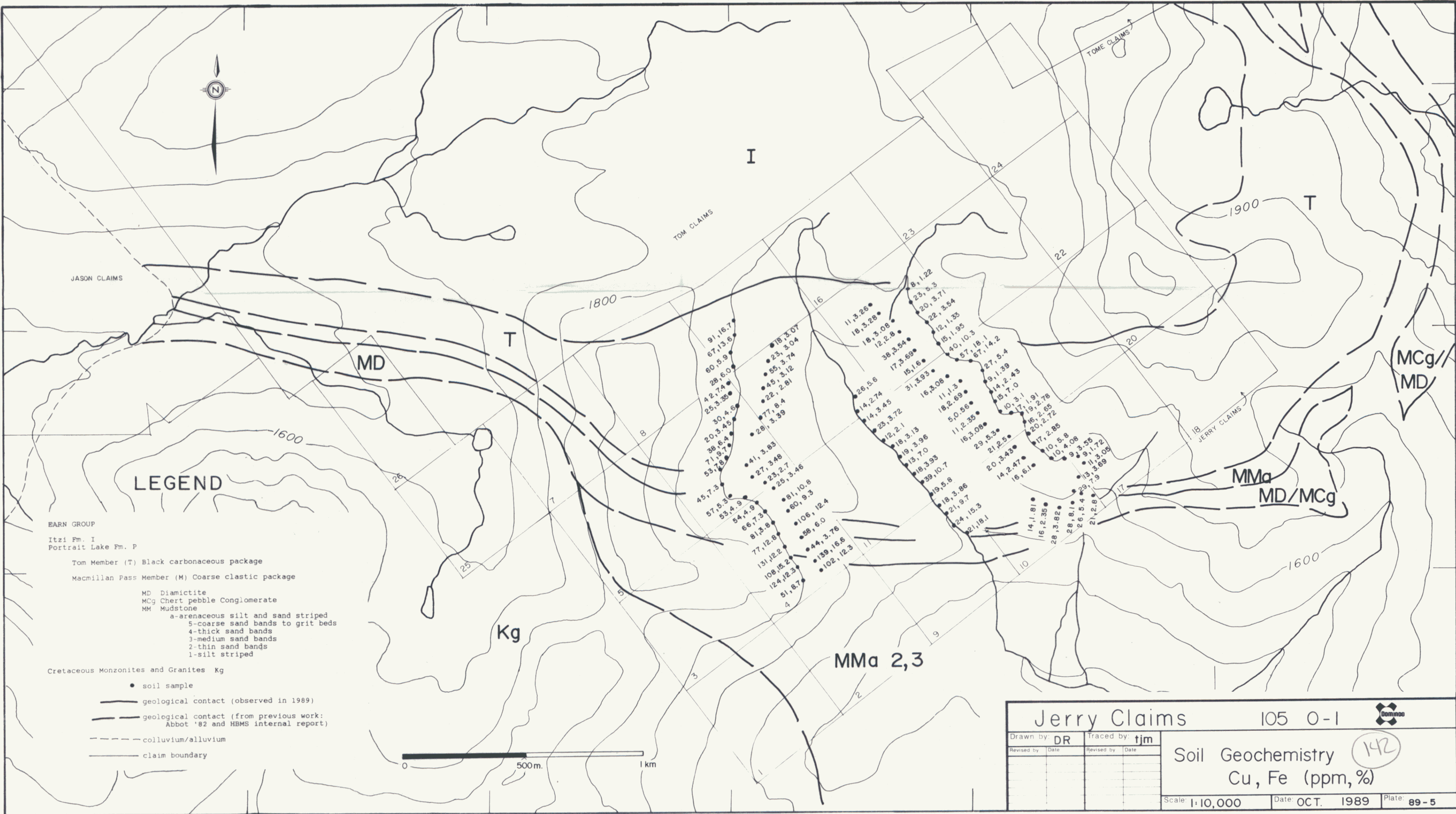
LEGEND

- EARN GROUP**
 Itzi Fm. I
 Portrait Lake Fm. P
- Tom Member (T) Black carbonaceous package
 Macmillan Pass Member (M) Coarse clastic package
- MD Diamictite
 MCg Chert pebble Conglomerate
 MM Mudstone
 a-arenaceous silt and sand striped
 5-coarse sand bands to grit beds
 4-thick sand bands
 3-medium sand bands
 2-thin sand bands
 1-silt striped
- Cretaceous Monzonites and Granites Kg
- soil sample
 - geological contact (observed in 1989)
 - - - geological contact (from previous work: Abbot '82 and HBMS internal report)
 - - - colluvium/alluvium
 - claim boundary



Jerry Claims		105 0-1	
Drawn by: DR	Traced by: tjm	Soil Geochemistry Ba, Mn (ppm) 141	
Revised by:	Revised by:		
		Scale: 1:10,000	Date: OCT. 1989
			Plate: 89-4

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LEGEND

- EARN GROUP**
 Itzi Fm. I
 Portrait Lake Fm. P
- Tom Member (T) Black carbonaceous package
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 — claim boundary



Jerry Claims		105 0-1	
Drawn by: DR	Traced by: tjm	Soil Geochemistry 142	
Revised by: _____	Date: _____		
Scale: 1:10,000		Date: OCT. 1989	Plate: 89-5

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