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CORDILLERAN SEDIMENTS  
GEOCHEMICAL STREAM SEDIMENT  
PROGRAM  
WATSON LAKE AREA  
YUKON TERRITORY  
JULY 10 TO 14, AUGUST 14, 1980

DIAND - YUKON REGION. LIBRARY

NTS 105 A 2, 7, 10, 15  
Edward P. Dillon  
November 1980



SUMMARY AND RECOMMENDATIONS

Three anomalous areas were outlined by the 1980 reconnaissance stream sediment geochemical program in the Watson Lake area.

One anomaly, located in the NE part of the survey area is recommended for follow-up in 1981, if time permits.



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## 1.0 INTRODUCTION

A total of 94 stream sediment geochemical samples were collected during a helicopter supported reconnaissance program in the Watson Lake area, Yukon territory from July 10 to 14, and August 14, 1980.

This survey was undertaken by Edward P. Dillon (Project Geologist), Paul Matysek and Steve Riddell (Senior Assistants); and Lorne Burden, Mark Langridge and Neil Gilbert (Junior Assistants).

The 1380 km.<sup>2</sup> survey area comprised NTS 1:50,000 scale map sheets 105 A 2, 7, 10 and 15. Sample density averaged 1 sample per 15 km.<sup>2</sup>.

Helicopter support for this survey was provided by Frontier helicopters, Watson Lake, Y.T. Fuel was purchased from Yukon aviation products, Watson Lake, Y.T.

## 2.0 LOCATION, ACCESS AND TOPOGRAPHY

The survey area is located in South Central Yukon Territory approximately 60 km. north of the town of Watson Lake (Fig 1). Longitudes 128°30' and 129°15' and latitudes 60°15' and 61°00' form approximate boundaries to the survey area.

Throughout the duration of this survey the crew was based at the Gateway Motor Inn, Watson Lake, Y.T.

Limited access to the survey area was provided by the Robert Campbell highway and the Canada Tungsten Road which pass through the western and northern extremities of the survey area. Approximately 90% of the survey area is accessible only by helicopter.





The topography within the survey area is fairly low and rolling with maximum relief averaging 250 m. The southern half of the area is low and swampy. Ridges in the north and west of the survey area have a maximum relief of 600 m.

### 3.0 LAND SITUATION AND EXPLORATION ACTIVITIES

Claims cover approximately 10% of the survey area. The only known mineral occurrence in the survey area is the Mount Hundere Pb-Zn skarn showings which are located approximately 50 km. north of Watson Lake. At the present time, Cima Resources is drilling off a small, high grade lense of Pb-Zn-Ag mineralization.

A description of this property is listed in Appendix II.

### 4.0 METHOD OF INVESTIGATION

A total of 94 stream silt geochemical samples were collected over the 1380 km.<sup>2</sup> survey area. This survey was conducted in 7 crew days from July 10 to 14 and August 14, 1980 and employed 18.8 hours of helicopter time.

Samples were collected at 3 to 4 km. intervals along major rivers and streams and, where access permitted, the tributaries to the rivers and streams were sampled upstream from the confluence.

Most of the stream sediment sampling was performed by two man crews. "Chopper-hopping" in which two crews would be set out at different sample stations and then moved to subsequent sample stations separately was employed. Maximum utilization of the helicopter was realized.



At each sample station the silt from several different locations in the stream bed was wet sieved through a twenty mesh stainless steel sieve into a small pan. Approximately 1.5 to 2 kilograms of silt was taken at each sample station.

The -20 mesh silt was transferred to prenumbered, 5" x 7" wet strength kraft sample bags and stored in the cargo compartment of the helicopter prior to return to camp. The samples were then dried and shipped to Min En Laboratories, 705 West 15th Street, North Vancouver, B.C.

Sample preparation consisted of oven drying of the entire sample and then passing the sample through a series of heavy liquids. The resultant Heavy Mineral Concentrate (HMC), with a specific gravity of 3.1 g/cc or higher, was then dried, weighed, subjected to conventional hot acid digestion and analyzed for Cu, Pb, Zn, Ag, Mo, As, Au, Ba, V, Mn and Fe by Atomic Adsorption Spectroscopy.

#### 5.0 GENERAL GEOLOGY AND STRUCTURE

The general geology of the survey area shows a north trending belt of Devono-Mississippian black shales with overlying Mississippian volcanics. In the Northern part of the survey area, the shales have been intruded by a large biotite-hornblende granodiorite stock of Cretaceous age.

Near the centre of the survey area, a small window of Cambrian to Devonian clastics and carbonates are exposed.

The Mount Hundere Pb-Zn-Ag skarn "deposit" is located within the Cambro-Ordovician carbonates in this central area.



In general, the formations dip gently to the west except where intruded by Cretaceous stocks. Here, the units dip more steeply away from the intrusive contacts.

## 6.0 INTERPRETATION OF GEOCHEMICAL RESULTS

The results of the statistical calculations performed on the Watson Lake data are listed in Table I.

The data is compiled on 1:250,000 scale map sheets in the rear pocket of this report.

## 6.1 DISCUSSION OF ANOMALOUS AREAS

Within this survey area there are three zones exhibiting anomalous zinc values.

Zinc values ranging from 750 ppm to 1300 ppm occur in samples from streams draining the Mount Hundere Pb-Zn-Ag skarn showings of Cima Resources Ltd. Anomalous Pb and Ag values are most abundant in this area.

Two samples taken from streams draining Devono-Mississippian shales in the N.E. part of the area, along the Can Tung Road returned values in the 950 ppm to 1400 ppm Zn range with slightly anomalous Pb values in one sample.

In the south east end of the survey area anomalous Zn and Cu values occur in streams draining Mississippian volcanics.



TABLE 1

## SUMMARY OF STATISTICS

ELEMENT	MEAN	STANDARD DEVIATION	MEAN + 2 STD. DEV.
Cu	47	22	91
Pb	46	27	100
Zn	294	207	708
Ag	1.97	1.07	4.13
Ba	5973	5969	17,912
V	31	18	67.0

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## 7.0 CONCLUSIONS AND RECOMMENDATIONS

A total of three anomalous areas were outlined by the 1980 Cordilleran sediments reconnaissance geochemical survey.

- i) Mount Hundere Area
- ii) N-E Tungsten Road
- iii) S-E Mississippian Volcans

The writer recommends a brief follow up of the N-E Tungsten Road area, if time and weather permits, during the 1981 field season.

Respectfully submitted

Edward P. Dillon



APPENDIX 1

LIST OF DATA



PROJECT No.: AFF 0421 FAC 08115

MINERALOGICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

PHONE (604) 980-5814

DATE: July 18

ATTENTION: T. Gillon

Heavy Mineral 1980.

Sample Number	Ni ppm	Cu ppm	Pb ppm	Zn ppm	Mn ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Ba ppm	V ppm	H.M. %	
81	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
282	82	120	118	1400	45		20	20500		150	1080	15	7800	24	0.38	
283	83	90	58	950	10		20	90500		120	875	10	7600	20	0.36	
284	84	60	20	200	10		10	63500		4	1100	10	3000	6	0.25	
285	85	35	25	260	3		22	76200		5	1285	15	2300	2	0.21	
286	86	35	20	125	4		23	48800		3	820	10	2700	3	0.32	
287	87	50	18	105	5		18	33500		8	605	5	5000	3	0.39	
288	88	65	102	269	4		13	59500		3	475	15	22000	2	0.49	
289	89	70	36	109	2		10	80000		2	725	20	4200	4	0.38	
290	90	75	15	58	4		13	39500		32	445	20	450	28	1.90	
291	91	52	17	53	4		11	34500		105	430	15	1300	19	1.44	
CS80-292	92	34	13	216	9		09	21700		52	390	15	18000	11	1.47	
CS80-293	93	30	22	160	5		07	35000		24	840	15	33000	25	1.96	
294	94	20	45	160	8		08	40000		23	840	15	96000	10	0.98	
295	95	25	62	250	10		20	80500		65	1275	10	9000	20	0.58	
296	96	56	75	250	5		15	82000		73	1450	25	4400	65	0.48	
297	97	50	44	160	10		14	63000		41	1100	10	42200	70	0.78	
298	98	35	20	200	5		15	50000		33	790	10	1500	50	0.35	
CS80-299	99	80	140	140	50		40	89000		29	1300	5	1960	20	0.17	



COMPANY Gulf Minerals

GEOCHEMICAL ANALYSIS DATA SHEET

No. 0-536

PROJECT No.: APE 0421 FAC 08115

MIN. EN Laboratories Ltd.  
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

DATE: Aug 1980  
Heavy Mineral 1980

ATTENTION: R. P. Dillon

Sample Number	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Ba ppm	V ppm	H.M. %
6	15	20	25	30	35	40	45	50	55	60	65	70	75	80
81	85	90	95	100	105	110	115	120	125	130	135	140	145	150
CS80-600	23	20	68	3		13	31500		39	540	15	720	25	0.09
CS80-601	56	87	150	8		18	57100		79	870	10	120	35	0.34
CS80-602	32	15	65	4		11	30000		29	485	10	610	10	1.44
603	12	22	63	5		19	18500		27	470	15	500	5	1.01
604	38	40	330	15		18	49000		79	1500	15	15700	1	0.78
605	36	39	269	6		10	33000		49	775	5	1120	55	1.89
606	100	370	750	19		27	58500		116	1350	5	6820	95	2.31
607	32	68	226	3		10	31500		32	595	5	1020	40	1.57
608	85	51	775	33		32	71000		141	720	5	2930	80	1.59
609	18	21	125	3		06	23000		19	585	5	930	35	2.75
610	12	10	110	2		08	22000		15	430	10	810	40	1.03
CS80-611	35	40	400	10		09	34000		1072	190	5	4280	45	0.08
CS80-613	85	60	1300	50		60	100000		224	1000	10	2700	40	0.58
614	48	52	450	10		14	76000		119	1100	10	3210	30	1.15
615	68	42	360	10		11	77000		87	740	5	17300	45	0.98
616	48	45	700	20		30	100000		183	1670	10	18440	55	0.37
617	90	55	1200	19		25	200000		121	1300	5	2800	60	0.76
618	55	58	390	5		10	99000		24	1300	5	4600	65	0.39
619	40	56	440	20		14	99000		70	1400	10	6000	20	0.41
CS80-620	16	15	60	5		07	24000		18	420	5	970	35	0.81

PROJECT No: **APR 0421 FAC 08115**

MIN - EN Laboratories Ltd.

Heavy Mineral

DATE: **Sept 11**

ATTENTION: **E.P. Dillon**

705 WEST 15th ST, NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 950-5814

Sample Number	AS ppm	Cu ppm	Pb ppm	Zn ppm	SE ppm	Mo ppm	HM %	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	V ppm	Ba ppm	W ppm	Bi ppm
900	30	18	18	85	4	1.08	0.827600				22	180	15	10012000			
901	12	10	10	61	2	2.73	0.520100				77	600	35	55	2800		
902	10	8	8	61	2	3.88	0.325100				10	810	50	50	1400		
903	80	30	30	398	9	4.08	1.44400				108	1700	10	7524000			
904	48	20	20	675	15	1.18	0.831600				46	1675	20	20024000			
905	36	15	15	510	16	3.28	0.821300				16	980	25	195	2400		
906	60	25	25	550	18	1.71	1.356300				10	1050	15	13054000			
907	90	10	10	160	9	0.76	1.051800				46	650	15	150	8800		
908	55	25	25	250	7	1.74	1.347700				29	750	15	12015000			
908	40	15	15	235	5	1.39	0.859000				26	500	10	220	1800		
910	75	20	20	510	10	1.12	1.363700				47	800	20	13512000			
911	33	18	18	135	8	1.05	0.621900				14	130	10	80	3500		
912	51	16	16	370	9	1.28	0.743800				19	360	15	150	5200		
913	42	25	25	105	6	1.82	0.641900				13	400	25	110	6300		
914	28	22	22	85	4	2.01	0.539300				13	380	20	65	3300		
915	100	20	20	520	5	0.28	0.113200				77	300	20	120	4900		
916	12	18	18	170	8	0.95	0.328600				10	190	15	90	1700		
917	31	26	26	275	17	3.87	0.643000				23	200	10	30	7300		
918	35	27	27	135	14	1.07	1.238000				50	250	10	110	2900		
919	7	22	22	65	6	1.53	0.743800				35	800	15	120	1900		
920	7	30	30	70	9	1.65	0.650700				55	800	15	100	1500		
921	18	17	17	85	5	1.70	0.645000				32	180	15	105	1850		
922	20	22	22	145	3	2.68	0.532400				30	200	15	75	2000		
923	29	36	36	570	4	1.52	0.558600				13	500	30	85	2000		
924	168	145	145	380	8	3.09	1.718400				123	2400	10	75	1200		
925	54	42	42	315	9	1.01	0.910700				33	900	15	120	1700		
926	44	42	42	60	3	7.53	0.930800				20	380	15	60	1200		
927	33	22	22	110	4	1.21	0.533300				23	220	10	60	3000		
928	26	14	14	37	4	0.54	1.287700				93	450	10	100	1850		

COMPAR

Gulf Minerals Canada

## GEOCHEMICAL ANALYSIS DATA SHEET

wh

File No. 0-770

PROJECT No.: AFE 0421 FAC 08115

MIN - EN Laboratories Ltd.

DATE: Oct. 3,

ATTENTION: E. P. Dillon

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 960-5814

Heavy Mineral

1980.

Sample Number	K <sub>2</sub> O ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Ba ppm	V ppm	H.M. %
6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
81	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155
CS80-10	2.2	1.1	3.5	7.0	8		0.9	2300.0		6	45.0	1.5	3000	95	1.13
	2.3	1.4	2.5	8.0	5		0.5	3250.0		8	56.0	1.0	2200	40	1.53
	2.4	3.0	1.8	13.0	4		0.6	5700.0		1	120.0	5	1200	48	5.73
	2.5	10.0	5.5	14.0	12		1.0	20800.0		21	125.0	2.0	10500	65	0.48
	2.6	10.0	6.0	11.5	6		1.0	19700.0		2.5	15.0	1.5	10000	50	0.34
	2.7	4.0	5.0	23.0	6		0.8	6000.0		1	7.0	5	1200.0	40	0.35
	2.8	7.0	8.5	8.75	8		0.9	19000.0		1	14.0	1.0	10000	60	0.54
	2.9	3.4	3.0	27.0	5		0.5	7800.0		1.0	10.0	2.0	1100	55	1.50
	3.0	2.9	5.0	20.0	10		0.6	7250.0		1.4	9.5	1.0	1900	80	0.89
	3.1	4.0	2.5	18.0	8		0.8	4500.0		8.7	7.5	1.0	9000	30	0.22
	3.2	5.0	4.5	27.5	15		1.0	11500.0		3.2	13.0	2.0	2500	60	0.75
	3.3	1.5	2.6	9.0	6		0.7	4800.0		1.4	15.0	1.0	2500	80	1.20
CS80-10	3.4	1.7	3.5	2.0	4		0.4	1300.0		6	2.5	1.0	2000	30	1.69

APPENDIX II

LIST OF MINERAL PROPERTIES



Property Name: Common RITCO Other Mt. Hundere  
Location: Lat. 60°33' Long. 128°53' NTS 105A/10  
Metals: Major Lead, Zinc Minor Silver  
Type of Mineral Deposit: Skarn

History and Previous Work:

Staked in July/62 by Frances River Synd (Canex Placer L, Kerr Addison ML, Newconex Can EL) as JP and OP cl (79573), which were explored with trenching and one hole (388 ft) and fringed by Conwest's Tom cl (86925) in 1963, and transferred to a new company, Mt. Hundere ML in 1965. The property was then optioned to Atlas EL, which performed trenching, geochem and geophysical surveys in 1966 to earn a 70% interest. Atlas changed its name to Cima Res L in 1974 and restaked as Mica cl (YA412) in Aug/76.

Description:

\* Galena and sphalerite occur in garnet-diopside-wollastonite skarn developed in Lower Cambrian crystalline limestone near the contact with overlying phyllite or argillite of Cambro-Ord age. An aplite dike occurs near the showing and is the only igneous rock in the area. The deposit is 120 ft long and up to 30 ft wide. Drilling showed that the skarn is the eroded remnant of a synclinal trough and has no depth extension. Surface sampling gave the following assays.

<u>Type</u>	<u>Ag (oz/ton)</u>	<u>Pb (%)</u>	<u>Zn (%)</u>	<u>Au (oz/ton)</u>
Chips - 420 ft long by 25 ft wide	1.2	11.3	7.2	
Chips - 250 ft long by 42 ft wide	1.3	14.3	10.0	
Grab - Galena	2.5	25.0	19.9	trace

References:

- P63-38, pp.33-34  
P64-36, pp.44-45  
P67-40, pp.65-66  
"Geology of the Mt. Hundere Deposit" by K.M. Dawson, unpub. B.Sc. Thesis, U.B.C., April/64  
ER, May/66 by D.D. Campbell in Atlas E Prospectus  
\*\* "Structure and Stratigraphy of the Mt. Hundere Area" by J.G. Abbott, unpub. M.Sc. Thesis, Queen's University, Oct/77  
P78-1A, p.292

Property Name: Common HUNDERE Other  
Location: Lat. 60°31' Long. 128°53' NTS 105A/10  
Metals: Major Lead, Zinc Minor Silver, Fluorite  
Type of Mineral Deposit: Skarn

History and Previous Work:

Staked in July/62 by Frances River Synd (Canex, Newconex, Kerr Addison & Anglo-Huronian L) as PJ and OP cl (79569), which were explored with trenching and 6 holes (1452 ft) and fringed by Conwest's Tom cl (86929) in 1963, and transferred to a new company, Mt. Hundere ML. The property was then optioned to Atlas EL, which performed bulldozer trenching and geochem and geophysical surveys in 1966 to earn a 70% interest. Atlas changed its name to Cima Res L in 1974 and restaked as Mica cl (YA416) in Aug/76.

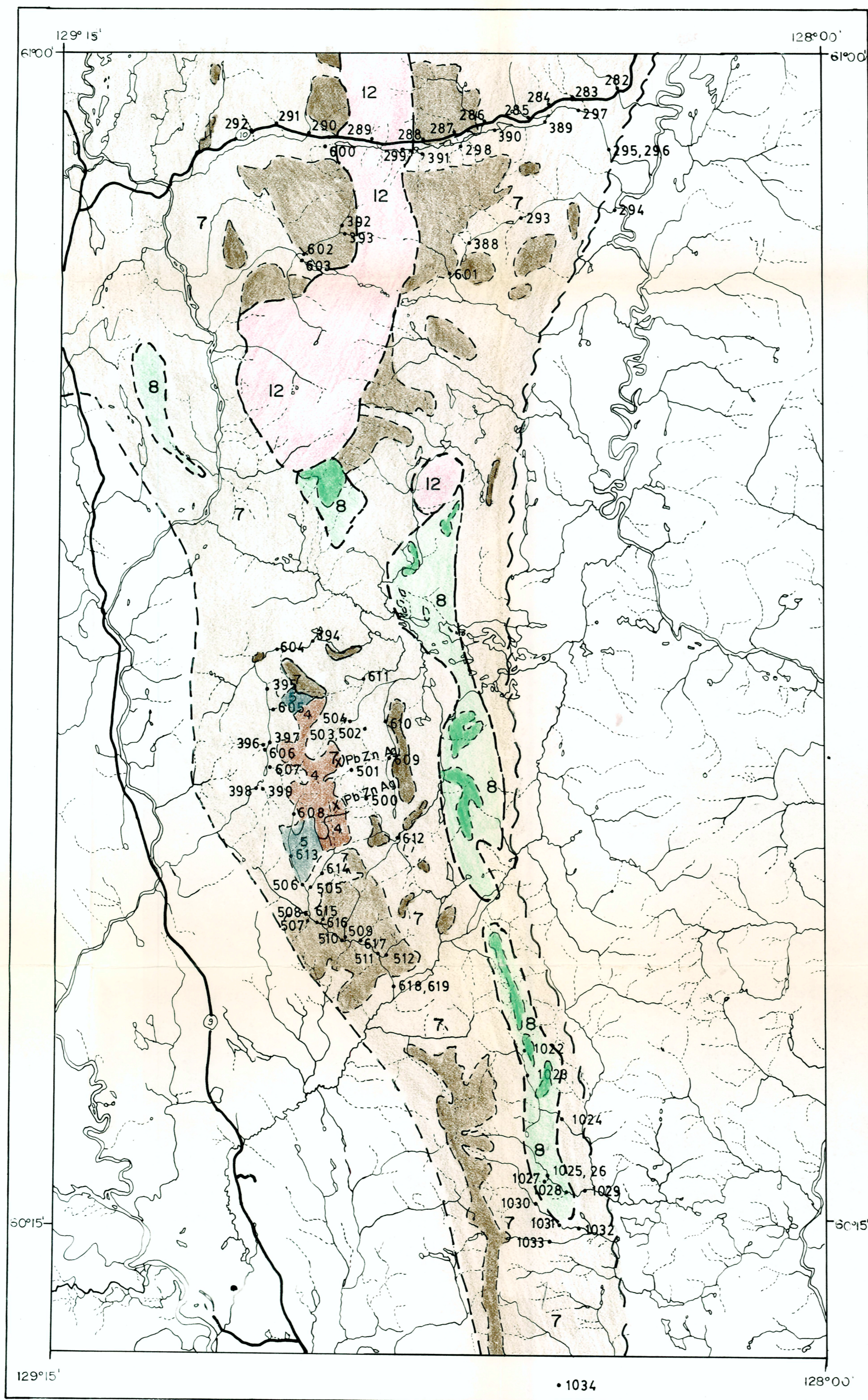
Description:

\* Galena and sphalerite are developed in garnet-diopside-wollastonite skarn in Lower Cambrian crystalline limestone near the contact with overlying phyllite or argillite of Cambro-Ord age. No igneous rocks have been seen near the showing. The outcrop is mineralized over a length of 200 ft and drilling showed it to be a lens 420 ft long that thins from a 25 ft width at surface to 10 ft at a depth of 80 ft and grades 10 to 20% combined Pb-Zn. It occurs in a shallow syncline 800 ft from a major fault. Quartz-fluorite veins are common near the fault. Surface sampling in trenches showed:

<u>Type</u>	<u>Ag (oz/ton)</u>	<u>Pb (%)</u>	<u>Zn (%)</u>	<u>Au (oz/ton)</u>
Grab - skarn	0.4	3.1	2.0	trace
Grab - galena	15.5	76.4	4.5	trace
Chips - 170 ft long by 34 ft wide	5.3	34.4	18.3	trace
Chips - 160 ft long by up to 50 ft wide	3.5	11.6	5.0	trace

References:

- P63-38, pp.33-34  
P64-36, pp.44-45  
P67-40, pp.65-66  
"Geology of the Mt. Hundere Deposit" by K.M. Dawson, unpub. B.Sc. Thesis, U.B.C., April/64  
ER, May/66, D.D. Campbell in Atlas EL Prospectus  
\*\* "Structure and Stratigraphy of the Mt. Hundere Area" by J.G. Abbott, unpub. M.Sc. Thesis, Queen's University, Oct/77  
P78-1A, p.292  
Northern Cordillera Mineral Inventory - 1972 - Archer, Cathro & Associates Ltd.



**LEGEND**

**CRETACEOUS**

12 Bio-Hb granodiorite and qtz. diorite

**MISSISSIPPIAN**

8 Greenstone, chert, Phyllite, argillite, chert-pebble conglomerate

**DEVONIAN and/or MISSISSIPPIAN**

7 Chert-pebble conglomerate, carbonaceous black slate, impure siltstone, sandstone, quartzite, greywacke

**SILURIAN and/or DEVONIAN**

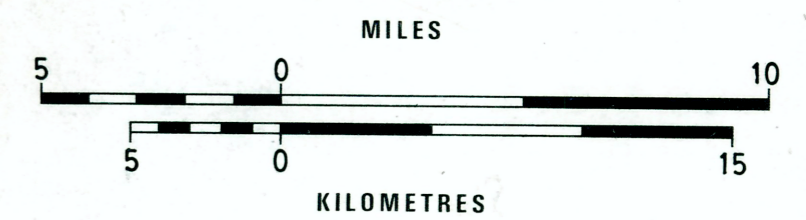
5 Buff, brown, grey, laminated, calcareous siltstone; grey orthoquartzite, black argillaceous limestone

**CAMBRIAN, ORDIVICIAN**

4 Dk. grey, black argillite, slate and phyllite; buff and grey calcareous phyllitic limestone, phyllite and slate

**SYMBOLS**

- Geological Boundary (def., approx., assumed) ——— ———
- O.C. Boundary (approx.) - - - - -
- Fault (approx.) ~~~~~
- Mineral occurrence X Pb, Zn



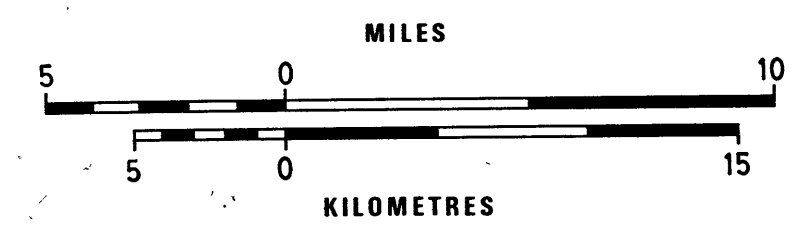
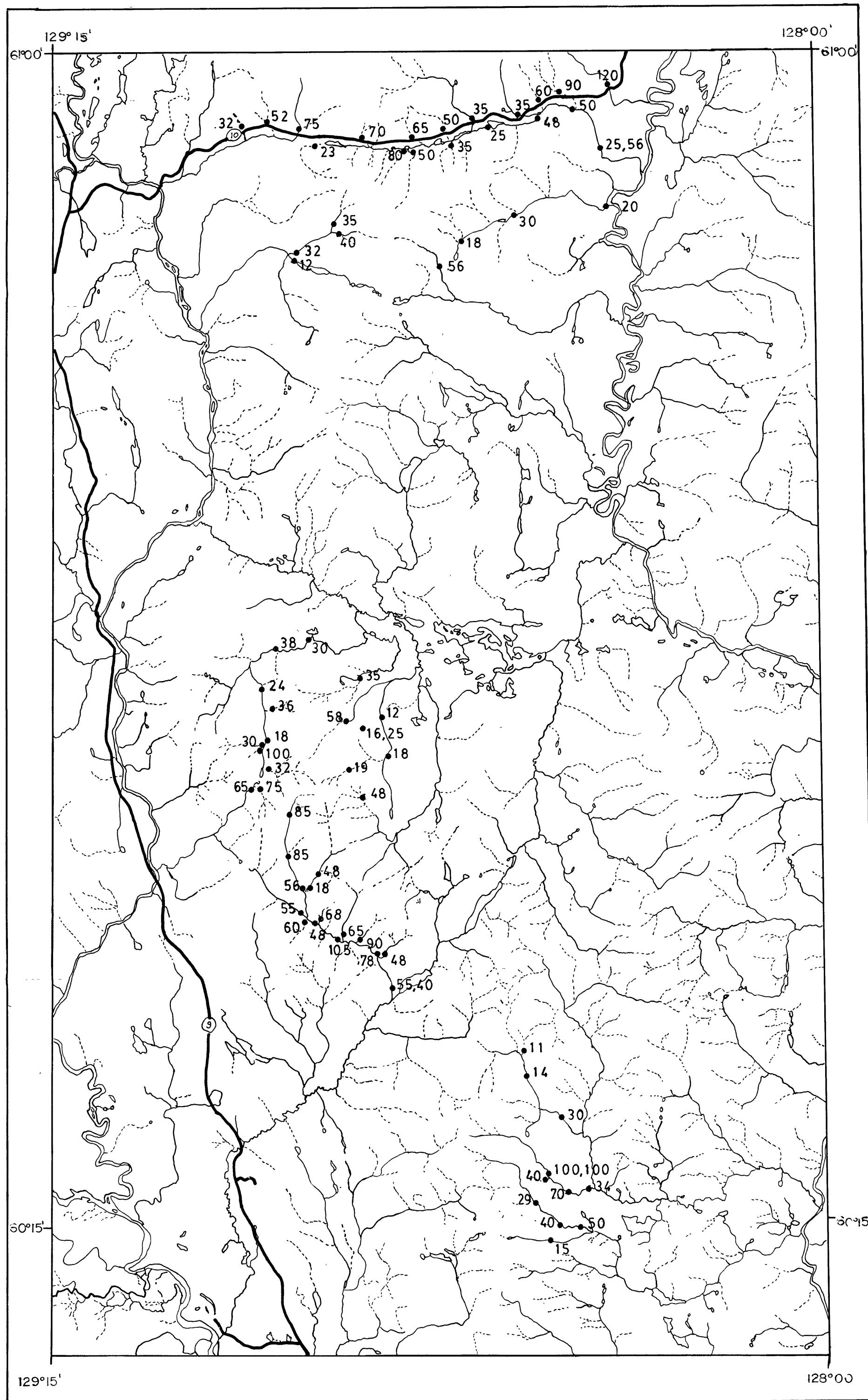
Gulf Minerals Canada Limited

CORDILLERAN SEDIMENTS  
Watson Lake Area  
GEOLOGY AND SAMPLE LOCATIONS (HMC)

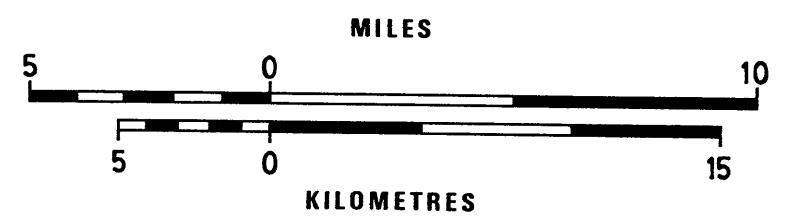
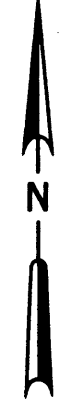
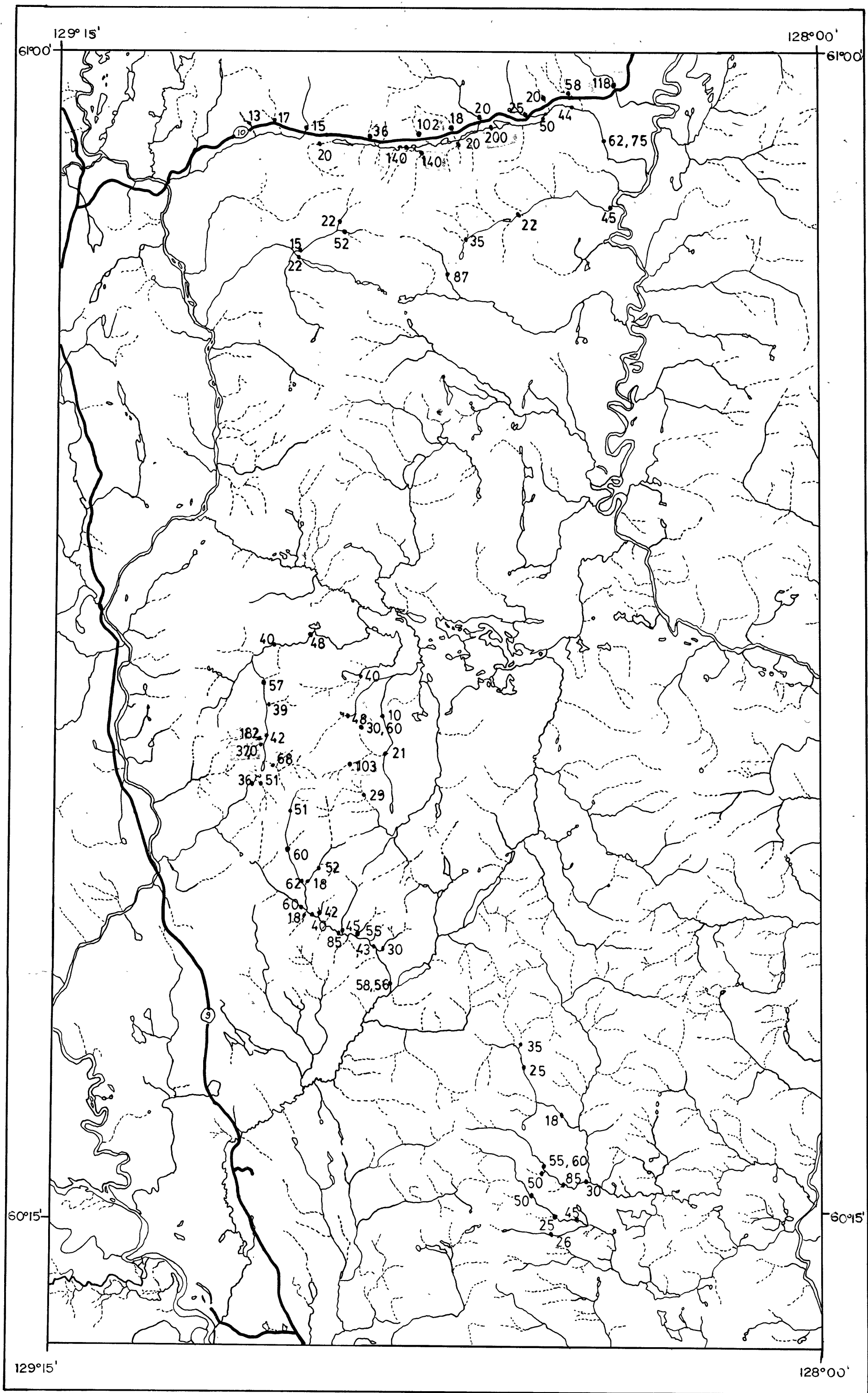
YUKON TERRITORY

DATE	SCALE	DRAWN BY	PLATE
OCT/80	1:250,000	EPD	105A

1000559286

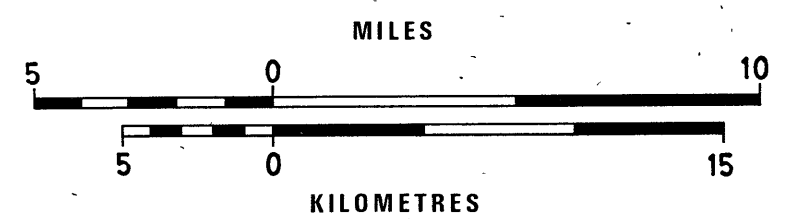
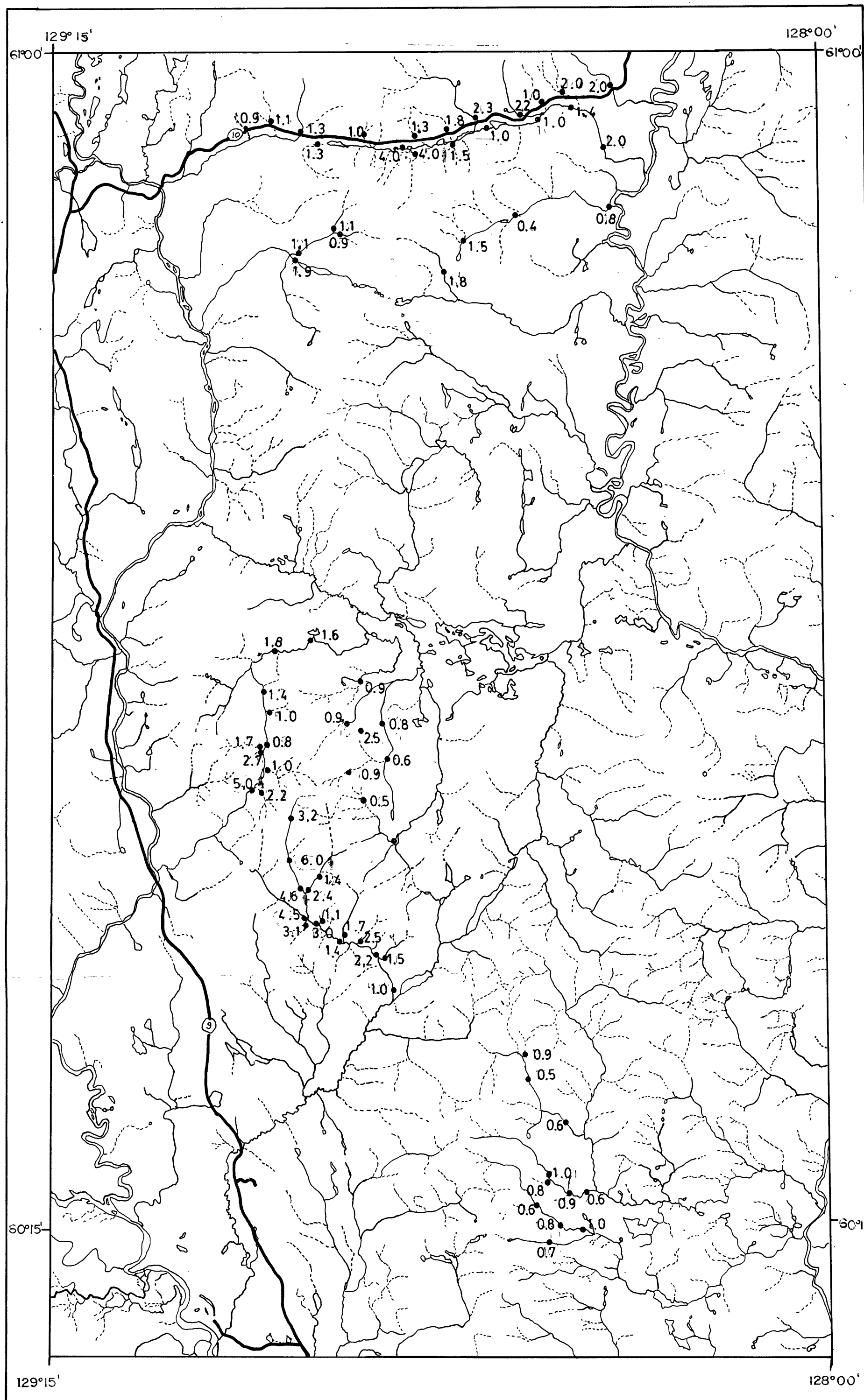


Gulf Minerals Canada Limited			
CORDILLERAN SEDIMENTS PROJECT			
RECONNAISSANCE STREAM GEOCHEM SURVEY (HEAVY MINERAL CONCENTRATES)			
Cu values in PPM			
DATE	SCALE	DRAWN BY	PLATE
JULY, 1980	1:250000	S. R., OCT/ 80	105 A



<b>Gulf Minerals Canada Limited</b>			
CORDILLERAN SEDIMENTS PROJECT			
RECONNAISSANCE STREAM GEOCHEM SURVEY (HEAVY MINERAL CONCENTRATES)			
<b>Pb</b> values in PPM			
YUKON TERRITORY			
DATE: JULY, 1980	SCALE: 1:250000	DRAWN BY: S.R., OCT/ 80	PLATE 105 A





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RECONNAISSANCE  
STREAM GEOCHEM SURVEY  
(HEAVY MINERAL CONCENTRATES)

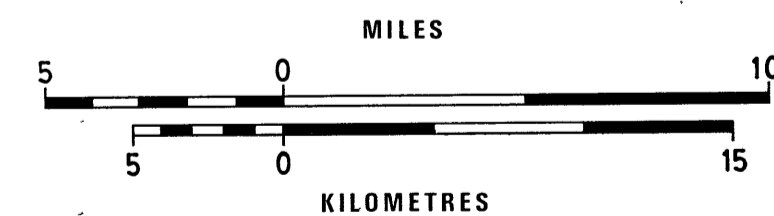
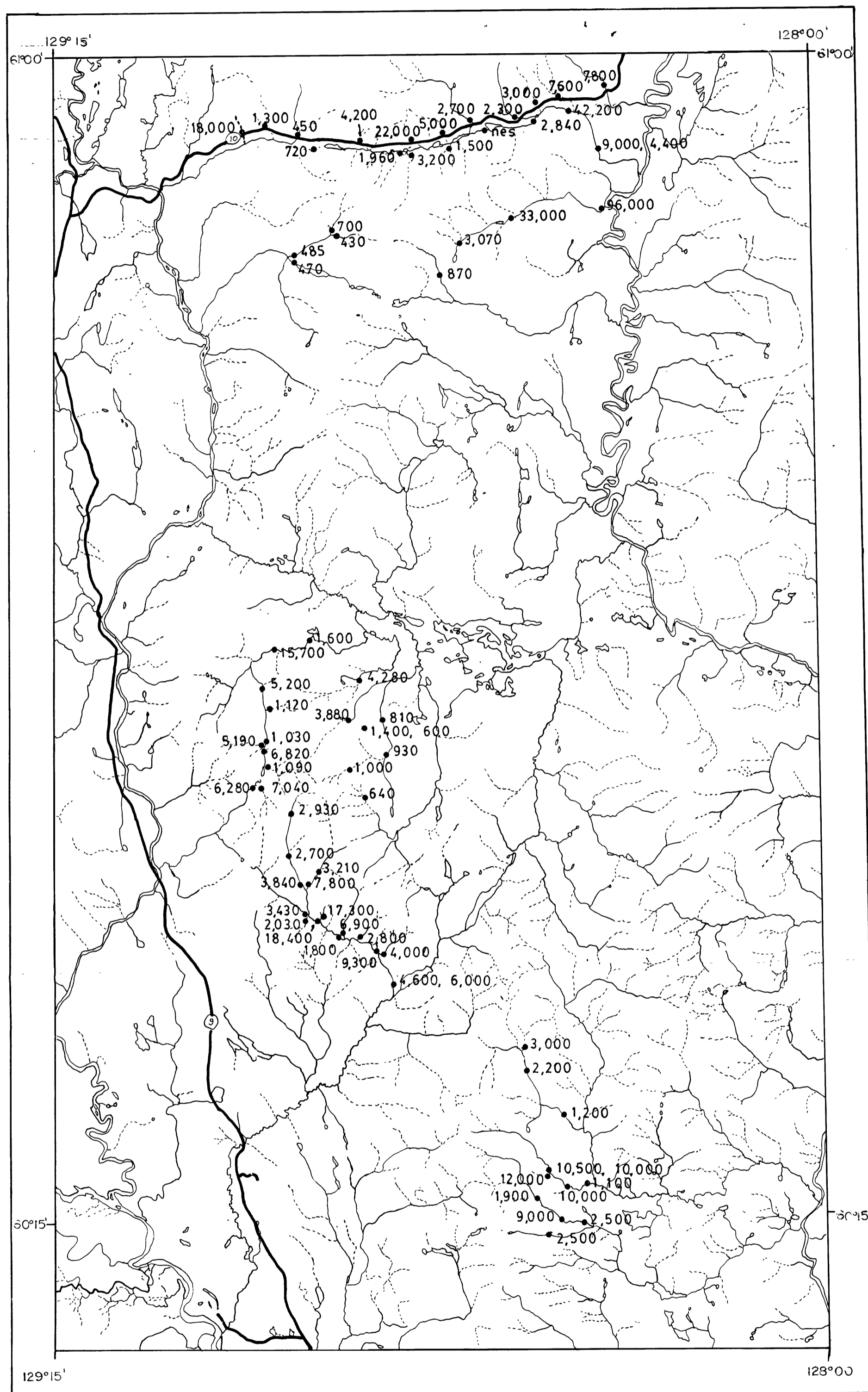
**Ag**

values in PPM

YUKON TERRITORY

DATE: JULY, 1980	SCALE: 1:250000	DRAWN BY: S.R., OCT/ 80	PLATE 105 A
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STREAM GEOCHEM SURVEY  
(HEAVY MINERAL CONCENTRATES)

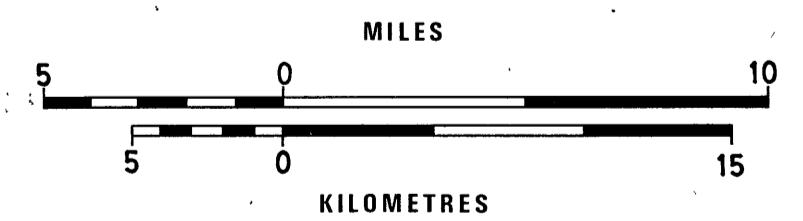
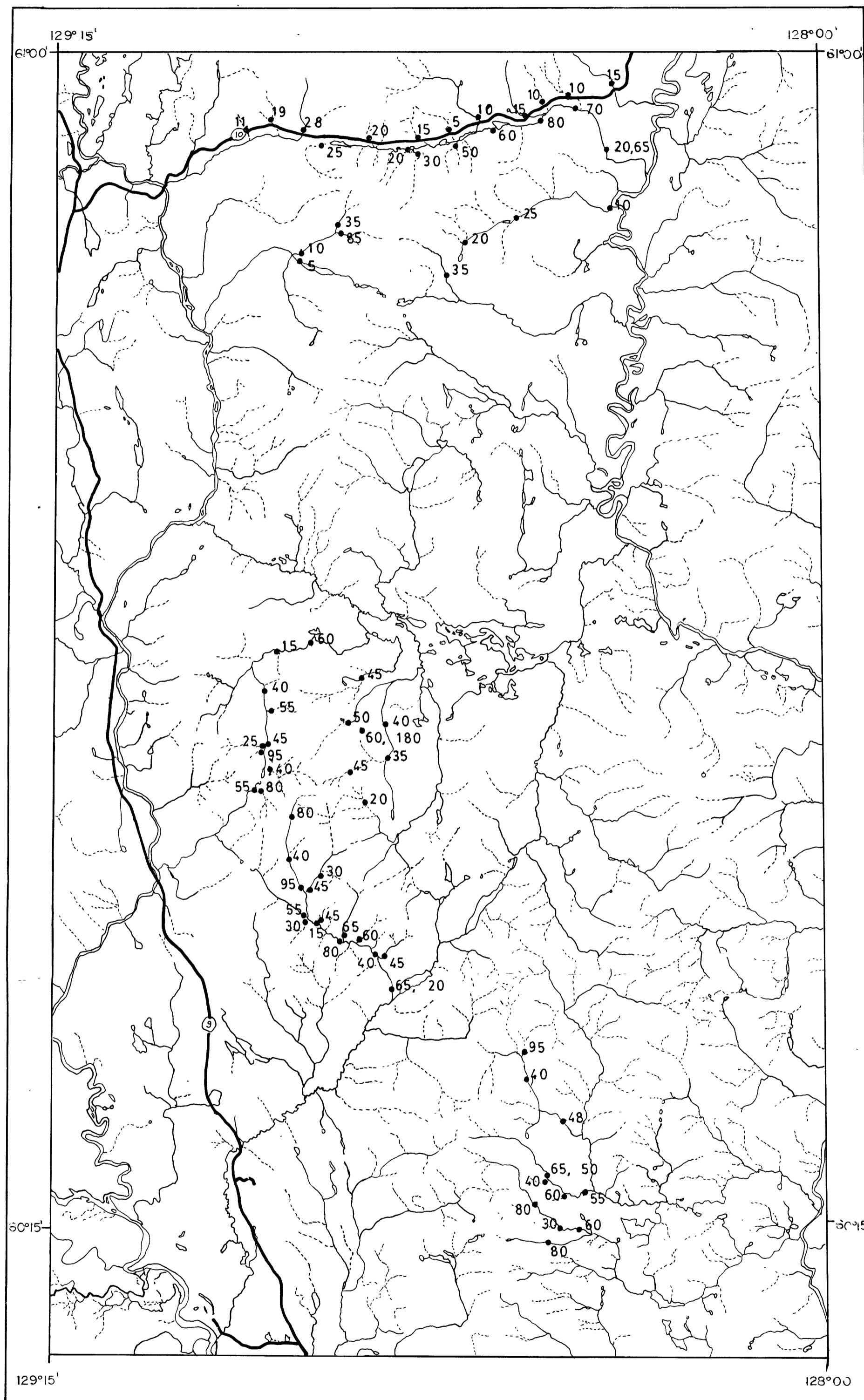
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values in PPM

YUKON TERRITORY

DATE	SCALE	DRAWN BY	PLATE
JULY, 1980	1:250000	S.R., NOV/80	105 A

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RECONNAISSANCE  
STREAM GEOCHEM SURVEY  
(HEAVY MINERAL CONCENTRATES)

V

values in PPM

YUKON TERRITORY

DATE	SCALE	DRAWN BY	PLATE
JULY, 1980	1:250000	S. R., OCT/80	105 A

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