

**1985 ASSESSMENT REPORT  
ON THE SAM FRACTION**

SIMILKAMEEN MINING DIVISION

NTS: 92 H/8E

LATITUDE: 49° 22' NORTH

LONGITUDE: 120° ~~00'~~ WEST

08

12/86

MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES	
Rec'd	MAR 17 1986
SUBJECT	_____
FILE	_____
VANCOUVER, B.C.	

Prepared

for

OPERATOR: SOUTHERN INTERIOR MINING CO. LTD.

OWNER: Paul La Fontaine

**FILMED**

by

ROBERT T. MCKNIGHT, P.ENG.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,354**

March 15, 1986

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1985 ASSESSMENT REPORT  
ON THE SAM FRACTION

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- I. Geochemical Analyses Results
- II. Corrected Magnetometer Data
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	Scale
FIGURE 1. LOCATION MAP	(1:250000)
FIGURE 2. CLAIM MAP	(1: 50000)
FIGURE 3. GEOCHEMICAL SURVEY	(1: 5000)

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1985 ASSESSMENT REPORT  
ON THE SAM FRACTION

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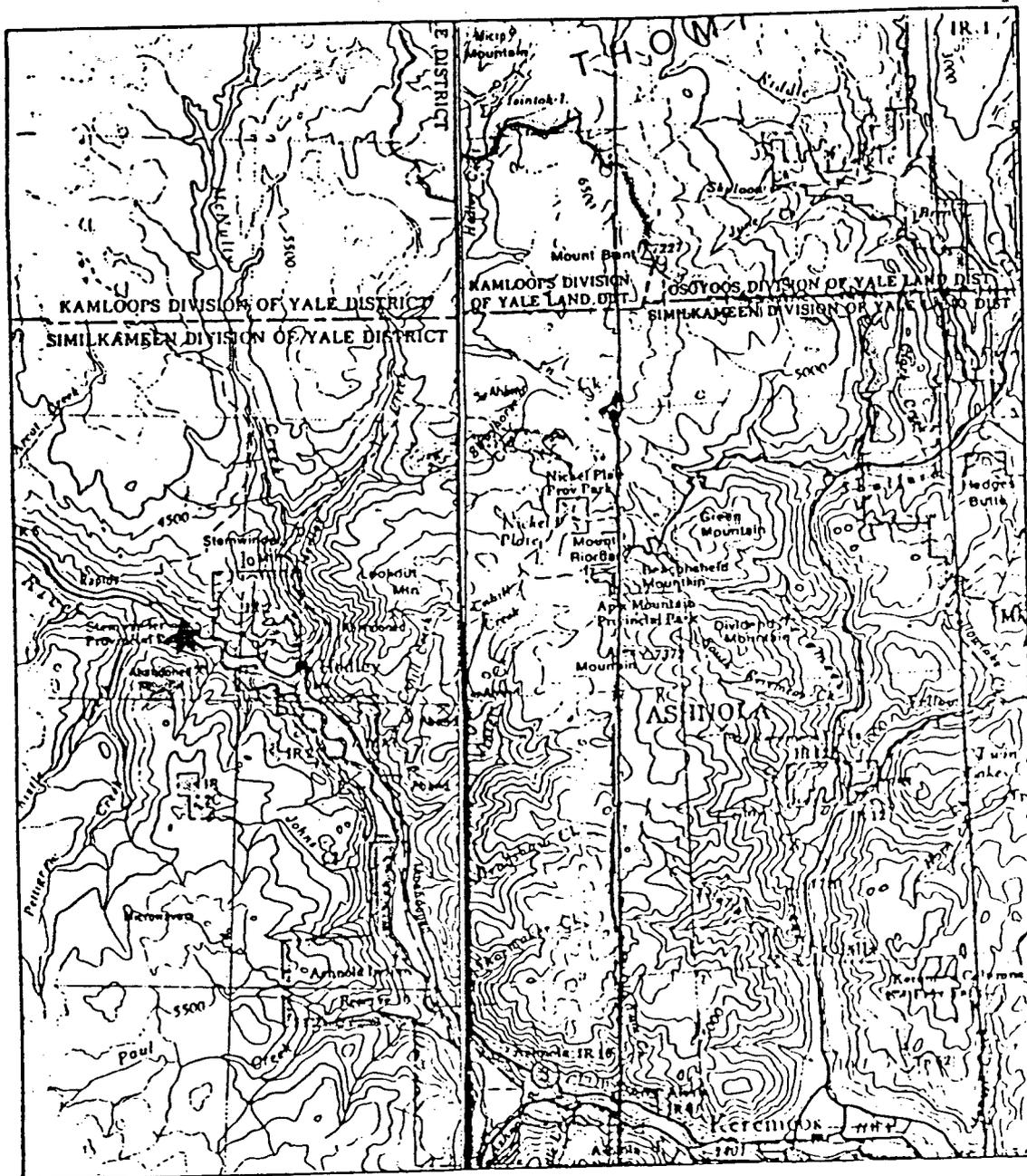
SUMMARY

The SAM Fraction is located approximately 5 kilometres West Southwest of the town of Hedley, B.C. (see Location Map). The claims occupy the lower east-facing slopes of the Similkameen Valley.

In 1985, a short reconnaissance was made of the property. A number of soil and samples were taken (8 in total) and some prospecting was done along the base of the cliffs. Further work should concentrate on the areas of rock exposure at the higher levels. The claim is too heavily covered by river gravels at the north end for much meaningful exploration to be done.

LOCATION

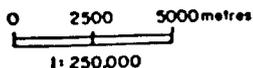
The SAM Fraction is located approximately 5 kilometres west of the town of Hedley, B.C. (see Location Map). The claim partially overlays a gravel river terrace on the south bank of the Similkameen River. Altitude is approximately 1800 feet asl. The claim is only lightly treed at the higher levels and is cleared for cultivation at the lower (northern) end of the claim.



# LOCATION MAP

SAM FRACTION

HEDLEY B.C.  
NTS 92H/8E



To accompany report by ROBERT T. MCKNIGHT, P. Eng.  
JANUARY, 1986

ACCESS

Excellent road access to the property is available by vehicle over a good gravel road. This road leaves Highway 3 about 6 kilometers west of Hedley and heads southeast to the Banbury Gold Mines property.

The northern half of the claim is river terrace which is under cultivation. The remainder is cliffy, with numerous talus slopes.

Drainage is to the northeast into the Similkameen. Snowfall is moderate in winter months but this would not significantly affect access except perhaps in the steeper areas. The area is generally dry in summer with warm days and cool nights. Water supply is abundant as the Similkameen is nearby.

CLAIMS

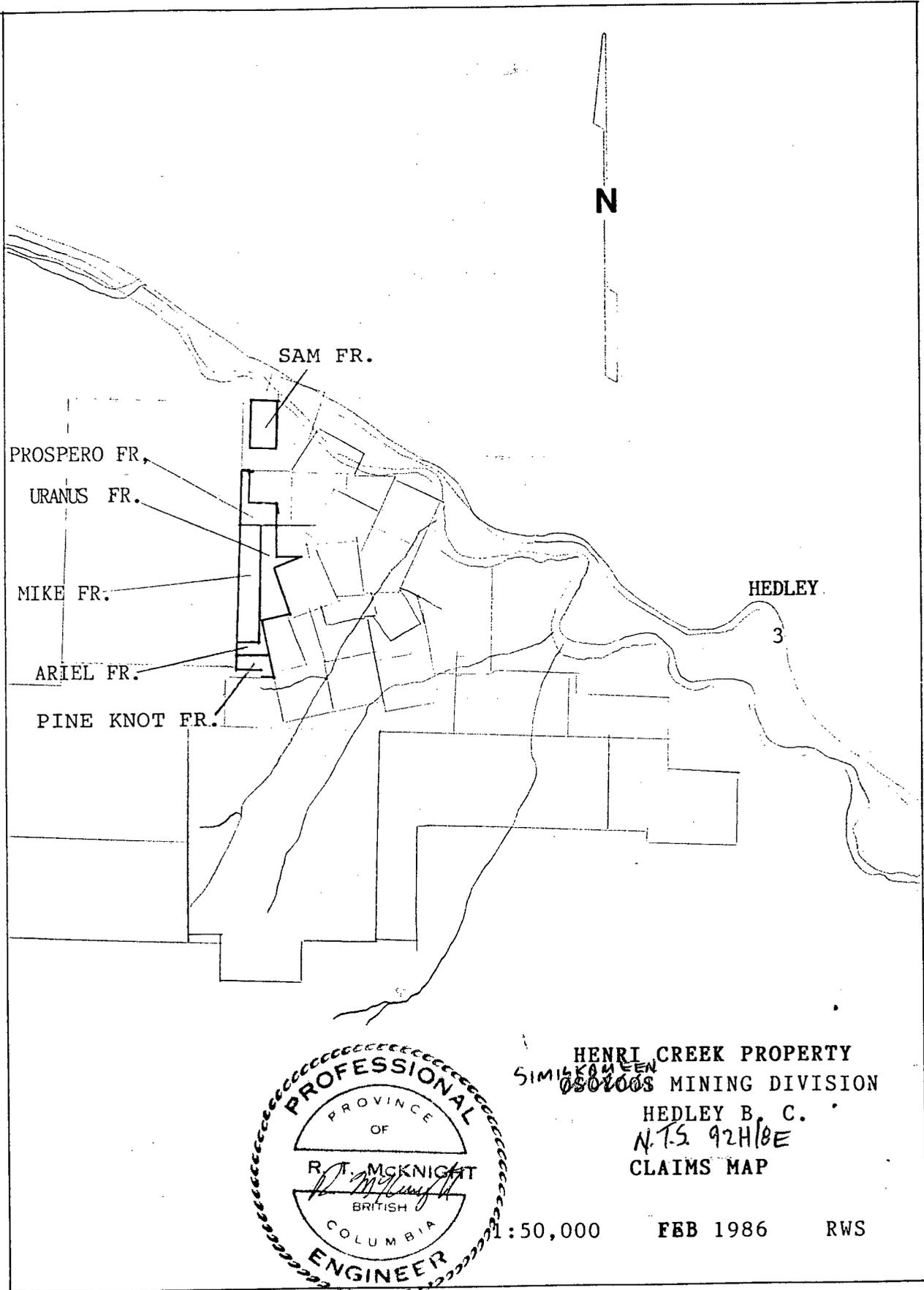
The SAM fraction is registered to Paul W. LaFontaine of Vancouver, B.C. Other information is shown in the below:

Claim Information

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>RECORD</u>	<u>DATE</u>
SAM FR	2341 (12)	December 17,	1984

HISTORY

The Hedley area in the late 1800's and early part of this century has been the scene of extensive gold mining and exploration activities. The ore deposits were first discovered



HENRI CREEK PROPERTY  
SIMISKAN MINING DIVISION  
HEDLEY B. C.  
N.T.S. 92H/8E  
CLAIMS MAP

1:50,000      FEB 1986      RWS

in 1896 and by 1899 a wagon road had been constructed up to the portal on Nickle Plate Mountain and a tramway built to deliver ore to the mill in the Similkameen Valley. The mines operated until the 1930's and, briefly, in the 1950's. Gold production over the years totalled about 1,500,000 ounces at an average grade of 0.45 oz/ton of ore.

Exploration successes on the south side of the Similkameen River were initially confined to quartz veins near creek beds in lower elevations. The first of these to be developed was H.C. Pollock's properties which consisted of five crown grants at Henri Creek, four kilometers from Hedley. These five crown grants - Martin, Daisy, Mapple Leaf, Minnehaha, and Pine Knot - were located in 1900 and today form the nucleus of property controlled by Banbury Gold Mines Ltd. The main workings are located on the west side of the creek.

At about the same time - the early 1900s - the Golden Canyon (later known as the Patsy) was staked on the east side of Sterling Creek to explore a quartz vein containing good grades of gold and silver. (Sterling Creek is also known today as Whistle Creek.) However, the Patsy property did not achieve prominence until the late 1920s when Dan McKinnon, a very active promoter, drove five adits into the slope, the longest exceeding 200 m.

In 1934, the Hedley Gold Hill Mining Co. Ltd. acquired eight claims at the top of the ridge flanked by Henri and

Sterling Creeks. Some trenching, short shafts, and a 60 m adit were completed.

Little exploration of significance took place in the area again until 1976 when Canadian Occidental Petroleum acquired, explored and drilled ground which included Hedley Gold Hill's. In 1980, Banbury Gold Mines Ltd. recommenced undergroundwork on the Maple Leaf and Pine Knot crown grants at Henri Creek, following renewed exploration by Mascot Gold Mines Limited at the old Nickel Plate mine on the north side of the Similkameen River. In 1985, Noranda optioned Banbury's ground in order to investigate the area's potential for open pit operations.

#### GEOLOGY

No geological mapping was undertaken in 1985. According to other maps of the general area, the fraction should be underlain by Triassic sediments or metasediments with perhaps some local dikes.

#### GEOCHEMISTRY

As shown in the Gold Geochemistry Map (FIGURE ), approximately 6 soil samples and 2 rock samples were obtained and submitted for assay. Geochemical analyses for 30 elements were performed at ACME Analytical Laboratories in Vancouver. The tabulated results and a description of the analysis method

are included in the Appendices. Values for gold and arsenic are plotted on the map.

A single anomalous gold value (290 ppb) was obtained at sample location SF 1+25. This area should be re-sampled to confirm this value and further samples should be taken in the area. The sampling should avoid the cultivated part of the claim which means restricting sampling to the southern part of the fraction.

#### GEOPHYSICAL

No geophysical data was obtained on the SAM fraction in 1985.

RECOMMENDATIONS

The following program is recommended to further evaluate the potential of the claims:-

RECOMMENDED 1986 PROGRAM

1. Geological mapping/prospecting	\$ 300
2. Soil sampling	\$ 1,000
4. Geochemical analyses	\$ 1,500
5. Engineering & supervision	\$ 200
6. Food & lodging	\$ 400
8. Transportation & rentals	\$ 250
9. Reports & drafting	\$ 200
10. Contingency	\$ 500
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TOTAL ALLOWANCE	\$ 4,350
	=====

The figures shown in the budget above are allowances only. If encouraging results are obtained, further programs should be implemented in conjunction with a qualified geologist.

## DETAILED COST STATEMENT

## 1985 PROGRAMME

## 1. WAGES and FEES

Robert T. McKnight, P.Eng.; 1½ days @ \$300/day November 3, 1985; March 15, 1986	\$ 450.00
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Paul W. LaFontaine; 1 day @ \$175/day November 3, 1985	175.00
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## 2. FOOD, ACCOMMODATIONS

2½ man days \$32.82/man day	82.05
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## 3. TRANSPORTATION

1 trip Vancouver to Princeton to Vancouver	50.41
1 trip Princeton to property to Princeton	

## 4. ASSAYS

6 samples \$10.76/sample	64.56
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## 5. REPORT

Drafting, typing, supplies, photo-copying	<u>343.96</u>
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	<u><u>\$1,165.98</u></u>
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CERTIFICATE OF QUALIFICATIONS

I, Robert T. McKnight, P.Eng., residing in North Vancouver,  
B.C. do certify that:-

1. I am a registered Professional Engineer in the Province of  
British Columbia.
2. I have a degree of Bachelor of Applied Science in Geological  
Engineering from the University of British Columbia. I am a  
member of the Canadian Institute of Mining and Metallurgy.
3. I have practiced as a geologist, geophysicist and mining  
financial analyst in B.C., Alberta, and other Provinces of  
Canada since 1972.
4. I am the author of the Report entitled "**ASSESSMENT REPORT ON  
THE SAM FRACTION**". The report is based on a trip to the  
property by myself and on fieldwork supervised by myself.
5. I have no financial interest in the ownership of the  
property, nor do I expect to receive such interest.

Respectfully Submitted,



Robert T. McKnight, P.Eng.  
Vancouver, B.C.  
March 15, 1986



APPENDICES

## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MM.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1-SOILS -80 MESH P2-ROCKS AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: FEB 28 1986 DATE REPORT MAILED: *Mar 4/86* ASSAYER: *De Jager* DEAN TOYE, CERTIFIED B.C. ASSAYER.

RAY STEWART FILE # 86-0234

PAGE 1

SAMPLE#	No	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	M	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
C330	1	104	2	83	.1	66	22	900	3.30	12	5	ND	2	47	1	2	2	53	1.12	.20	16	54	.93	108	.11	7	1.62	.01	.35	1	33
C400	1	68	6	89	.1	55	18	935	3.41	6	5	ND	5	46	1	2	2	55	.54	.16	16	46	.82	153	.15	5	2.03	.01	.38	1	6
C500	1	59	4	77	.4	43	15	758	2.75	7	5	ND	4	55	1	3	2	45	1.43	.14	14	39	.73	132	.11	5	1.58	.02	.34	1	4
C575	1	67	7	78	.1	51	18	907	3.08	9	11	ND	5	47	1	2	2	50	.71	.13	15	49	.83	122	.12	6	1.66	.02	.35	1	7
C625	1	68	6	85	.2	48	18	991	2.77	11	5	ND	4	41	1	2	8	43	.74	.19	12	41	.69	134	.09	3	1.40	.01	.33	1	100
C700	1	59	4	78	.1	56	18	893	3.16	9	5	ND	3	53	1	3	3	52	.54	.15	15	55	.84	134	.13	8	1.80	.02	.32	1	12
C750	1	60	11	95	.1	53	17	1003	3.20	9	7	ND	4	48	1	2	4	53	.56	.18	16	46	.76	165	.13	4	1.83	.01	.39	1	5
C800	1	62	45	142	.2	51	17	886	3.31	11	5	ND	6	44	1	2	5	55	.54	.16	15	49	.77	138	.14	8	1.78	.02	.32	1	8
C900	1	74	4	75	.2	59	16	648	3.37	15	5	ND	5	42	1	2	3	59	.54	.15	16	52	.89	97	.14	8	1.56	.02	.31	1	16
C1000	1	57	4	84	.1	49	16	968	2.87	3	5	ND	4	49	1	2	2	49	.64	.18	16	40	.68	179	.12	3	1.75	.02	.31	1	6
C1100	1	49	6	62	.2	54	15	693	2.91	10	5	ND	4	79	1	3	2	47	.59	.16	15	58	.85	95	.12	4	1.39	.01	.26	1	5
Q 0+300W	1	174	10	95	.8	18	14	1259	4.15	2	9	ND	9	147	1	2	2	109	1.43	.33	29	21	.75	74	.13	6	1.73	.04	.32	1	7
Q 0+250W	1	221	11	98	1.1	14	15	1186	4.28	3	5	ND	7	122	1	2	2	114	1.71	.33	28	15	.94	49	.14	14	1.83	.05	.51	1	13
Q 0+145W	1	101	10	84	.4	19	12	1178	3.11	5	5	ND	5	71	1	2	2	71	.91	.20	20	26	.73	97	.12	12	1.64	.03	.34	1	14
Q 0+110W	1	97	6	89	.1	18	11	881	2.93	3	5	ND	5	62	1	2	2	64	.75	.19	21	26	.54	138	.13	7	2.05	.03	.26	1	7
Q 0+60W	1	134	11	123	.1	15	13	1409	3.53	2	5	ND	7	82	1	2	2	85	.99	.23	28	21	.66	119	.13	7	1.88	.03	.32	1	6
Q 0+30W	1	99	6	85	.5	15	11	1008	2.86	4	5	ND	7	85	1	2	2	69	1.05	.28	27	18	.51	105	.13	5	1.95	.04	.22	1	1
Q 11N 3W	1	71	6	82	.1	21	12	787	2.99	5	5	ND	5	67	1	2	2	66	1.13	.24	21	28	.68	129	.13	9	1.76	.03	.37	1	3
Q 10N 3W	1	69	4	44	.2	24	11	554	2.40	3	5	ND	2	81	1	2	2	56	2.09	.20	16	25	.54	73	.09	7	1.00	.04	.21	1	7
Q 9+70N 3W	1	50	7	65	.1	19	10	720	2.28	3	5	ND	1	66	1	2	2	48	.84	.18	15	24	.49	153	.10	5	1.58	.03	.25	1	1
Q 9+15N 3W	1	74	2	83	.3	22	11	859	2.72	4	7	ND	4	59	1	2	2	58	.79	.22	19	27	.53	167	.11	6	1.99	.03	.23	1	2
Q 8N 3W	1	47	4	60	.1	23	11	681	2.70	2	5	ND	4	51	1	2	2	59	.83	.20	18	25	.53	127	.12	9	1.62	.03	.24	1	4
Q 7N 3W	1	36	2	58	.1	18	9	429	2.21	2	5	ND	1	67	1	2	2	38	.69	.12	15	20	.51	145	.11	7	1.82	.05	.33	1	2
Q 6N 3W	1	61	4	71	.1	22	11	747	2.80	4	5	ND	5	54	1	2	2	62	.81	.18	19	27	.54	137	.12	5	1.75	.03	.28	1	2
Q 5+25N 3W	1	36	3	61	.1	19	9	714	2.13	5	5	ND	3	56	1	2	2	43	.74	.19	14	22	.39	151	.08	4	1.43	.02	.18	1	3
Q 4N 3W	1	62	3	71	.1	31	13	833	3.29	7	5	ND	7	49	1	2	4	70	.71	.18	19	40	.61	110	.14	2	1.77	.02	.28	1	4
Q 3+50N 3W	1	46	6	65	.1	16	9	760	2.15	3	6	ND	5	60	1	3	2	44	.72	.14	14	17	.40	158	.10	3	1.70	.03	.18	1	1
Q 3+15N 3W	1	59	23	77	4.6	16	9	940	2.34	2	5	ND	4	64	1	6	2	48	.69	.16	18	19	.42	180	.11	13	1.95	.03	.20	1	1
Q 2N 3W	1	67	4	78	.1	36	13	921	3.06	5	5	ND	3	53	1	2	2	60	.72	.19	19	40	.67	137	.12	4	1.68	.02	.29	1	1
Q 1N 3W	1	194	3	87	.1	23	13	1225	3.69	2	5	ND	6	141	1	2	2	91	1.20	.28	27	29	.67	74	.13	2	1.92	.04	.25	1	4
SF 0+35	1	37	4	93	.1	14	8	747	2.07	7	6	ND	3	31	1	2	2	37	.46	.09	7	13	.25	151	.10	5	1.81	.03	.12	1	1
SF 0+75	1	33	4	58	.1	16	8	403	3.21	2	5	ND	2	43	1	2	2	70	.47	.07	9	25	.46	122	.11	2	1.33	.02	.16	1	3
SF 1+25	1	31	5	58	.1	15	9	427	3.42	3	5	ND	3	41	1	2	2	82	.43	.09	12	26	.46	97	.11	2	1.18	.02	.12	1	290
SF 1+75	1	28	7	58	.1	14	8	398	2.95	2	5	ND	3	41	1	2	2	59	.43	.05	11	18	.42	141	.11	4	1.52	.02	.13	1	2
SF 2+25	1	33	7	58	.1	13	7	272	2.94	2	5	ND	2	43	1	2	2	60	.41	.04	10	20	.41	125	.11	5	1.45	.03	.10	1	1
SF 2+75	1	29	2	54	.1	13	7	250	3.11	2	5	ND	3	38	1	2	2	68	.36	.05	11	24	.41	113	.11	2	1.36	.02	.09	1	1
STD C/AU-0.5	21	61	38	139	7.0	75	29	1231	3.99	38	16	7	35	49	18	15	21	62	.48	.15	38	61	.88	185	.08	35	1.72	.06	.10	13	480

SAM  
FR.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	I	I	PPM	PPM	I	PPM	I	PPM	I	I	I	PPM	PPB
2R 1N 3W	1	15	4	11	.1	3	1	218	1.19	4	5	ND	15	41	1	2	2	23	.35	.05	25	2	.06	17	.06	2	.22	.06	.08	1	1
SF R-1	1	6	2	5	.1	5	1	436	.53	2	5	ND	1	36	1	2	2	3	2.89	.01	2	2	.07	4	.01	2	.09	.01	.01	1	2
SF R-2	1	4	2	2	.1	4	1	56	.37	2	5	ND	1	2	1	2	2	1	.04	.01	2	1	.01	3	.01	2	.01	.01	.01	1	9

SAM FR

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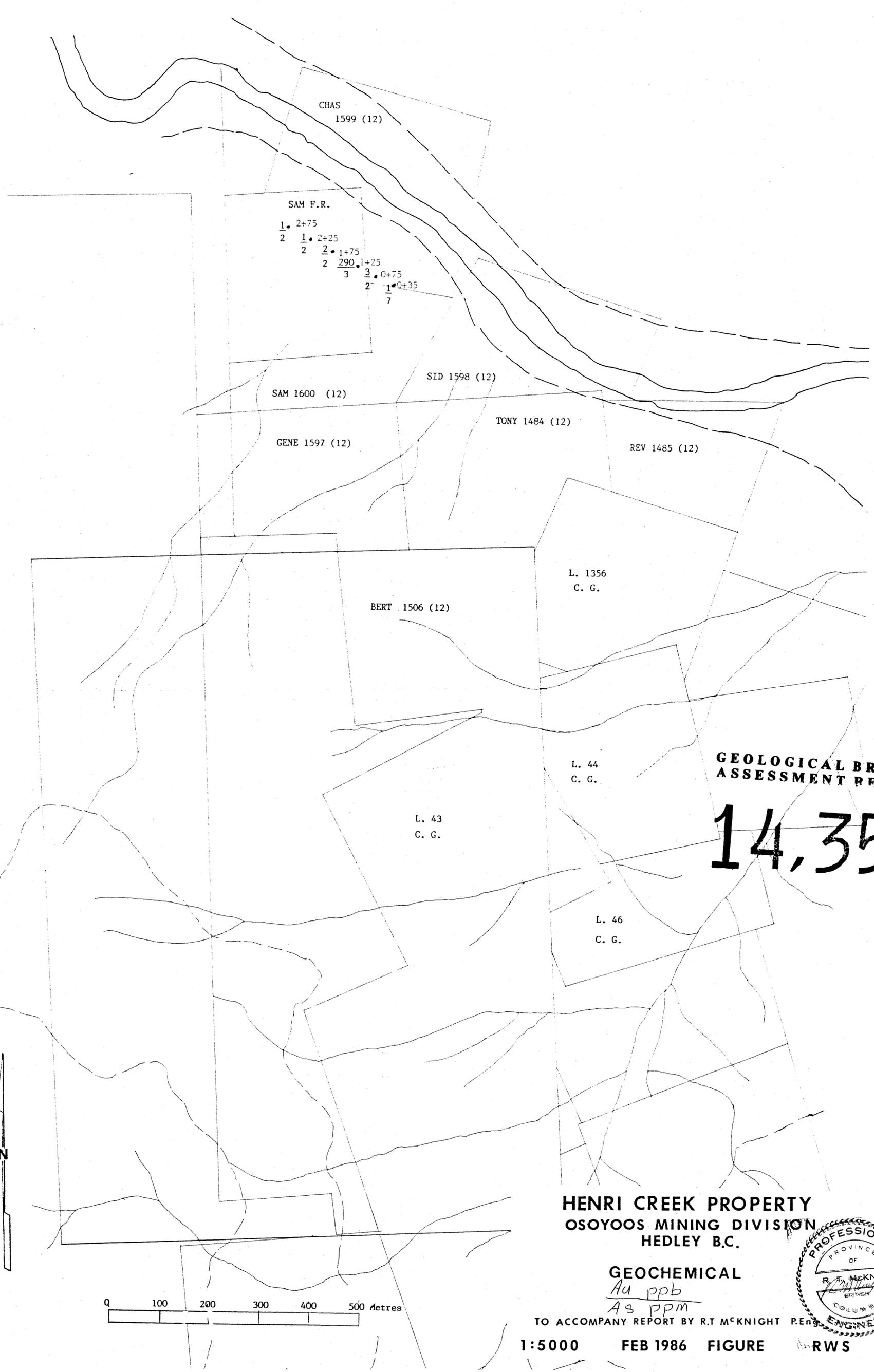
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**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,354**

**HENRI CREEK PROPERTY  
OSOYOOS MINING DIVISION  
HEDLEY B.C.**

**GEOCHEMICAL**

*Au ppb  
As ppm*

TO ACCOMPANY REPORT BY R.T. MCKNIGHT P.Eng.

**1:5000**

**FEB 1986**

**FIGURE**

**RWS**

