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**Gold Commissioner's Office  
VANCOUVER, B.C.**

**Geochemical and Geological Report**

to accompany

**Geophysical Surveys**

Concha Property  
Miner Mountain  
Princeton Area, B.C.  
Dated: 25 November 1997

by  
*E.R. ROCKEL P.GEO.*  
S. J. Geophysics, Ltd.

West Longitude 120°27.5"  
North Latitude 40°29.5"

**Report Prepared and Written by**

Douglas H. Hopper  
Mining Technologist  
Vancouver, B.C.

26 January 1998

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

**25,448**

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## THE CONCHA CLAIM GROUP

The Concha claim group consists of the following Two Post and four Post claims:

<u>CLAIM NAME</u>	<u>TENURE #</u>	<u>CLAIM TYPE</u>	<u>EXPIRY DATE</u>
Concha 1	309823	1-2 Post	06 June 2002
Concha 2	309824	1-2 Post	06 June 2002
Concha 3	309825	1-2 Post	06 June 1999
Concha 4	309826	1-2 Post	06 June 2002
Conchita 5	348125	1-2 Post	10 July 2000
Concha 6	309828	1-2 Post	06 June 1999
Concha 15	311201	1-2 Post	09 July 2000
Concha 16	311202	1-2 Post	09 July 2000
Concha 19	311205	1-2 Post	09 July 2003
Concha 20	311206	1-2 Post	09 July 2002
Concha 21	311207	1-2 Post	09 July 2001
GNU 88	332202	IN x 5W	15 October 2000
Gould #2	344737	5N x 4W	17 March 1999

### FRACTIONAL CLAIMS

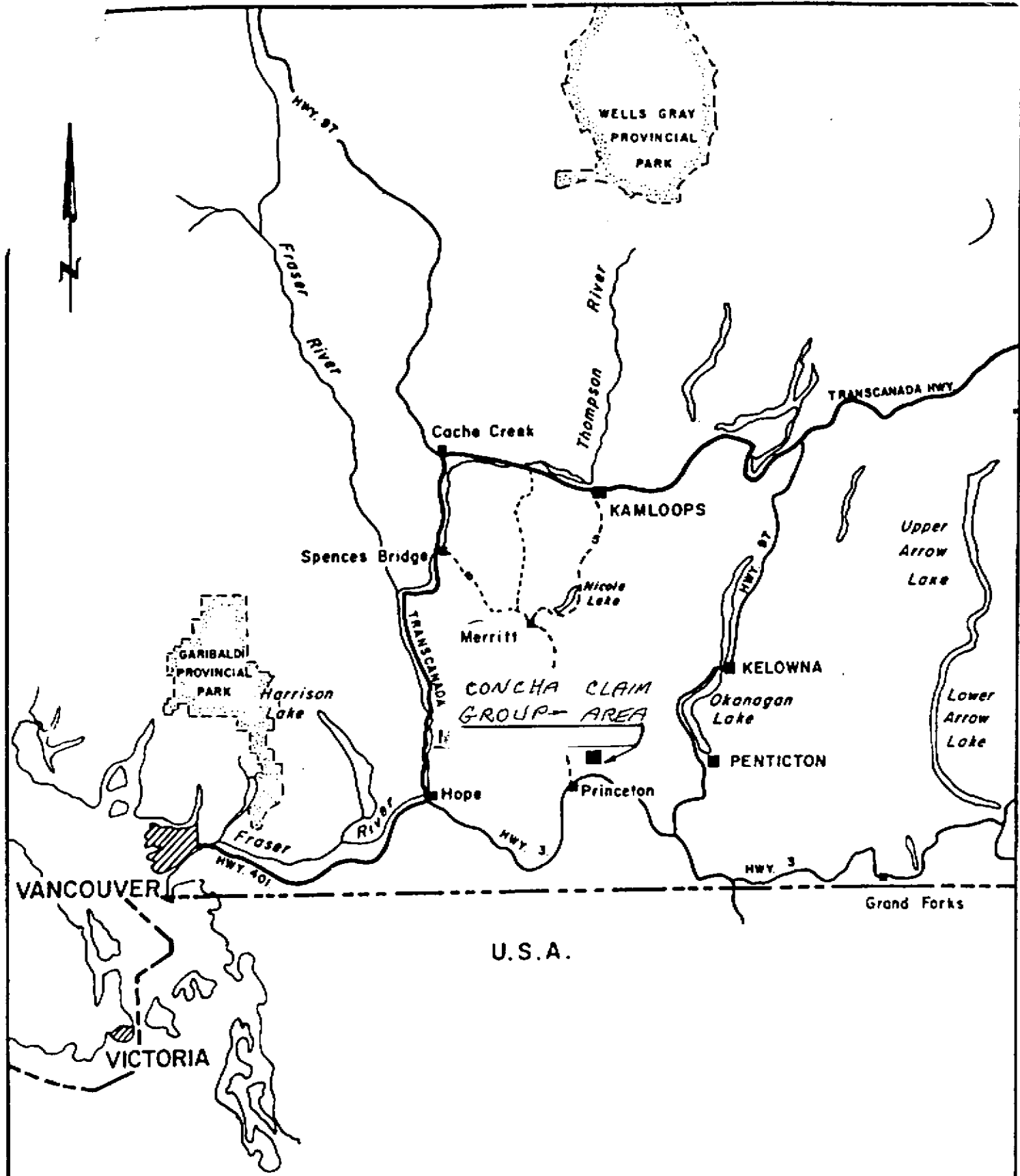
CONCHITA 1	348126	1-2 Post	03 July 2000
CONCHITA 3	348123	1-2 Post	05 July 2000
CONCHITA 4	348124	1-2 Post	09 July 2000
CONCHITA 6	359686	1-2 Post	09 October 2001
GNU 79	359685	15 x 4W	09 October 2000

### CONCHA CLAIM LOCATION

The Concha Claim Group are located on Mount Minor (or Baldy), covering the south and west slopes of the mountain. The claims extend to the eastern boundary, Shisler Creek, then southerly to the Hedly-Princeton Highway, north side of the Similkameen River. The west boundary extends to Allison Creek and the old railway grade there, the northern extension of Gould #2 to Gould Lake is the most northerly point.

The west longitude is 120°27.5" and the north latitude is 49°29.5", this point being the southeast corner of Concha #2.

The claims are located on maps 92H/8W and the southwest corner of 92H/058.



BALD MOUNTAIN AREA, SIMILKAMEEN M.D.  
BRITISH COLUMBIA

4

LOCATION MAP




247000m E  
120 30 33 34 150 35 36 25 88 89 90

49°30'  
5488000m. N.  
82  
Vermilion Forks - R  
Pumpkin - R

80  
25

CONCHITAS-CONCHA 1-4, 6

 SURVEYED AREA  
GEOPHYSICAL

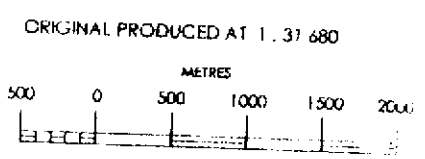
CONCHA SOUTH GROUP

S I M I L K A M E E N

MAP 092H08W

U.T.M. ZONE 10

LAST MAP UPDATE: 1997 OCT 05



ADMINISTRATIVE AREAS

MINING DIVISIONS: SIMILKAMEEN



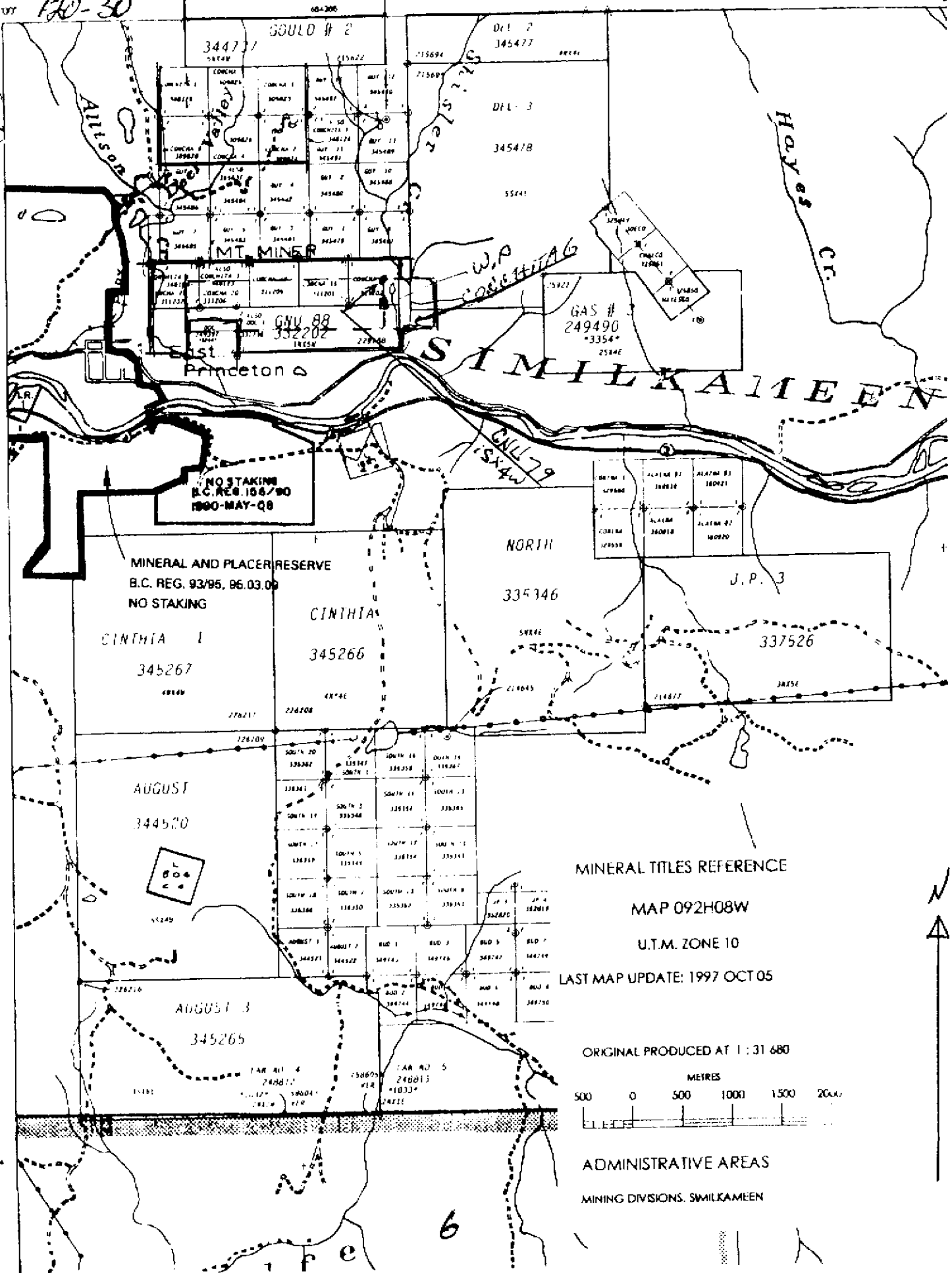
120°30'00"  
49°30'00"

120-30'

49-30'

348240

347430



NO STAKING  
B.C. REG. 108790  
1990-MAY-Q8

MINERAL AND PLACER RESERVE  
B.C. REG. 93795, 96.03.09  
NO STAKING

CINTHIA 1  
345267

CINTHIA  
345266

AUGUST  
344520

AUGUST 3  
345265

NORTH  
335346

J.P. 3

337526

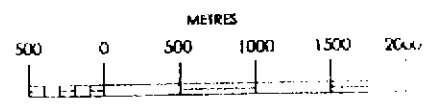
MINERAL TITLES REFERENCE

MAP 092H08W

U.T.M. ZONE 10

LAST MAP UPDATE: 1997 OCT 05

ORIGINAL PRODUCED AT 1 : 31 680



ADMINISTRATIVE AREAS

MINING DIVISIONS, SIMILKAMEEN



6

## WORK DONE

### SOILS

A total of 44 soil samples were taken on lines 42E, 43E and 44E, from 43N to the south on the east side of Concha 20, with the line 44E being the boundary line between Concha 20 and Concha 19.

Further soils were taken along north boundary of Concha 15, 43N (49E to 53+50E), then line 53+50E (43N to 39N).

All the above soils were dug up with a Mattock to the depth of 4'10", usually a dark loam to a brown loam type. The samples, usually 2 - 3 big handfuls, from the Mattock, then placed in a Kraft bag designed for this purpose. The grid co-ordinates were then written on the bag, taken and dried out to be shipped to the laboratory later.

The samples are all taken at 50 meter intervals, with line separations of 100 meters, using a common string machine for distance and a compass for direction.

### ROCK SAMPLES

A total of six rock samples were taken from various grid locations.

Sample 41+25N - 42+00E was taken from the pipe line debris area showing visible chalcopyrite, pyrite, torsion cracks, vuggy, calcite stringers, malachite, hematite and magnetite, in a dark volcanic rock. The rock assayed 2016 Cu (PPM); 1.2 (PPM) Ag; 5.22 % Fe; 9.96% Ca.

A sample taken 44E - 39+50N was a quartz-carbonate, black fine fracture fillings. A soil taken from the same location exhibits a trace of moly, 134 Cu (PPM) and 21 (PPB) Au. This area deserves further attention, as it appears to be a small quartz body.

Other samples PL (pipe line) 187W, 244W, 266W, 329W, were taken from the pipe line debris and outcrops there. The rock units were of volcanic tuffs, pyritic, with the later samples PL 329W being altered dyke material, that assays 752 Cu (PPM). The above samples were taken from the near area 42N-36E.

A sample 42N-36E was re-assayed (altered dyke material) for Au 55 (PPB), Pt 2(PPB), Pd 12 (PPB). The previous assay was 5256 (PPM) Cu and 1.7 (PPM) Ag was being very anomalous.

### SOIL SAMPLE RESULTS:

The new soil lines 42E, 43E and 44E were redone as there may have been an error in the first work. The new work extends the copper-gold-lead-zinc from the known line 40+50E to 46E. These lines are all south of the base line 43N.

Another new copper-gold-lead-zinc has been discovered near the north east corner of Concha 15, and extends to the north east.

### FIELD OBSERVATIONS:

While sampling the lines 42E, 43E and 44E, south of the 43N base line, abundant quartz-calcite stringer fragments were seen. They have been observed in place near the road, N. E. corner Concha 20, in the andesites there trending N. W.

On line 44E - 39+50N a small body of quartz-carbonate was found. Further sampling is to be done here.

### FIELD WORK DONE - NORTH AREA GEOPHYSICS

On 08 October 1997 I went with the crew of S J Geophysics Ltd. to the claims in Princeton, B.C. to get them located for geophysical work. They started on the claims Concha 1 & 2 where they did 4.5 kilometers over the known Geochemical anomaly. Using the fence line (common line for the claims) as the base line for their work survey, they did lines 45E, 46E, 48E, 49E, (53N - 62N) and line 44E (53N - 56+50N). Their co-ordinate 57N-49E is at the #1 claim post of Concha #1 & 2.

### FIELD WORK DONE - SOUTH AREA GEOPHYSICS

On the south area 4.8 kilometers were surveyed with the lines 37E, 38E, 39E, 40E, 41E, 42E, from the base line at 43N to the south at 35N (800M). The co-ordinate 42E - 43N is 200 meters west of the #1 post of Concha 20, which is the beginning point of the survey. The line 43N is the claim line for Concha 16 to Concha 21, also for the claims Conchita 4 and Conchita 3 (Fractional Claims). The southern extension 38N to 35N is the approximate width of GNU79, to the north boundary of GNU88. This area is traversed by several roads. (co-ordinate of Concha 20 #1 Post is 43N - 44E).

The post #2 of Concha 20 and #1 Post of Concha 21 was set up again, a new hole was dug, at the post's old location, a new stub of post put in and the old post strapped to the new stub. The old post had rotted off, the cattle there enjoy rubbing up against these posts, rocks, etc. The geophysics grid station 43N - 39E was 20 meters west of the claim post.

The new claims GNU79 (1S x 4W) and Conchita 6 (2 post claim) were staked to cover the open area that existed between GNU 88 and the Conchas 16, 15, 19, 20 and 21. Which is believed to be 250 - 300 meters wide. The posts for Concha 15 and 16 were not found.



## PROPOSED WORK

It has been recommended to diamond drill the south zone geophysical area that has been located on the line 4000 E.

Two drill locations are 39N drill north - 50°, and drill south - 65°, which are down the two geophysical arms or conduits of the zone (see section [pseudo section] 4000E, in the geophysical report). This area is also interesting due to the copper-gold geochemistry that surrounds the area, also in direct co-ordination with the lead-zinc geochemistry. Note: - see the copper-gold geochemistry map within the geophysical high indicated, and drill holes.

A drill hole is proposed for line 46E - 53N or 54N to test the high geochemistry of copper-gold area as well as the lead-zinc anomaly. There is also a low magnetometer reading in the area.

One drill hole DDH 73-4, located on this grid at 49E - 52N, intersected 232' of 0.27% copper. No gold assays reported. See Minfile 92HSE203, G.E., Granby zone, TNT.

Another drill hole in 1987, by Big I Developments, Grid co-ordinates approximately 44E - 50N, intersected 400' of sulphides. As reported some drill intersections of this hole assayed 0.9% copper, 0.5 oz/ton gold and 0.01 oz/ton combined platinum and paladium, platinum group elements.

To the east of this area, DDH73-4, by Bethlehem Copper, by calculation 600,000 tons of 0.25 - 0.30% copper, to the west some 220,000 tons of 0.50% copper in slide area, with 200 (PPB) gold.

## LOCAL GEOLOGY:

To the west of Deer Valley Creek are coal bearing sand stones and shale, and to the east are andesite tuffs and breccias, to the south 46N - 41E a feld spar porphyry dike in contact with limestone. Other dikes and volcanics occur near the pipe line Concha 21.

Most of the above rock descriptions by Preto, Minfile # 92HSE203.

Mr. K. W. Livingstone, assessment report #9634, goes on to say that the mineralization is confined to the nicola-rocks of pyrite and chalcopryite with associated equivalents. There are abundant brown copper oxides. Some of the better copper mineralization occurs with local zones of K-Feldspar alteration. A very interesting subject, as the soil geochemistry shows very good potassium values throughout the property. To further back up Mr. Livingstone's statement, the potassium values range from 0.10 to 0.25% (K-Feldspar).

## EXPLORATION HISTORY

The area known as the Regal Zone was explored for coal by the United Empire Company, 1908. This area is the south east side of Deer Valley, near its confluence with Allison Creek.

The underground workings are west of Deer Valley Creek, and just north of the road, 100 - 200 meters. The underground workings have encountered sulphides at depth. Chalcopyrite is found to occur in blocks of quartz at the bottom of one shaft. Sulphides in a tunnel assayed 1.87 - 2.8 % copper and 2.5 grams per tonne of gold and silver. See Minfile 92HSE078 Regal, United Empire Mine, GE, TNT.

From 1951 - 1962 Granby Consolidated M. S. & P. Co. did work on 66 claims - stripping, trenching, and diamond drilling - finding two zones of low grade copper.

In 1950 Granby Company did magnetometer, S. P., and electro-magnetic over the Regal claim and adjoining ground. Fahmi (1958) concluded the results of the surveys above were discouraging.

In 1960 Silver Standard Mines did some drilling, results not available.

In 1962 E. Mullins & G. Burr of Princeton restaked the ground of the main workings as the GE & V1 Claims. These claims were optioned to Climax Copper Mines (Silver Standard) who carried out I. P. Surveys, geological mapping and 1,077 meters of diamond drilling, with unknown results.

On the I. P. results, Nichols (1963) reports a number of graphitic zones, showing areas of weathering which may be due to presence of sulphides. The high I. P. background over the south grid may be due to widely scattered mineralization, which makes a very complex pattern.

In 1987 - 1988 Mingold did some geochemical surveys (indicated in Hopper's earlier work) and found a gold target with co-incident copper-gold and lead-zinc anomalies. (see AR 19043)

Since 1992 - 1997 Hopper has done several copper-gold and lead-zinc geochemical surveys. See in this report two reduced maps from 1 - 500 metric scale where the two surveys, i.e. copper-gold and lead-zinc, are co-incident.

Minfile 92HSE79, the Shamrock Blue Ridge, has copper, gold and silver.

Minfile 92HSE199, Elaine Shamrock, describes a dike 5M wide with 5% copper, trace of silver.

Minfile 92HSE198, Bornite Shamrock (Blue Ridge), has chalcopyrite and pyrite in the volcanics.

All three of the above are found on the east slope of Holmes Mountain, or west of Hayes Creek and north of the Similkameen River. This area is very interesting and further work is to be planned if the claims can be acquired, i.e. CAS 249490 claim area.

Climax Copper Mines (Minfile 92HSE204) trenched an area 180 meters x 150 meters that had copper and other minerals, such as chalcopyrite, pyrite and bornite, that assayed 0.215% and 0.295% copper. This area is located on Concha 20, north east corner.

There is some other copper values soil and rock to the north of the north east corner of Concha #1. Extra work may be planned for this area covered by Gould #2. Assessment report 9634, by Mr. Livingstone.

#### SCOPE OF THE AREA:

These last few years of geochemical sampling, using the advancement work of others as well as my own rock sampling, prospecting, and soil sampling, has helped put the property into an area where some possibility of finding a profitable mine exists.

Other engineers and geologists, after reviewing my maps, and in other cases *after some of them had been on the ground, allowed that there is a 50-50 chance of locating a body of porphyry copper-gold ore.*

Now some geophysics have been completed, with some results indicating a couple of drill sites in the south zone area. See pseudosection 4000E - 3900 E.

The area also corresponds with the copper-gold and lead-zinc geochemistry.

There are now new targets to the north and to the east for future exploration, but this new work may depend on the results of the proposed diamond drilling.

## AIR PHOTO SHOWING CLAIMS AND GEOPHYSICS LOCATION

This photo shows the best location of the total claim group, with some of my neighbours guy claims, now in the possession of Big I. Development.

The heavy lines indicate the areas that had geophysical work done, refer to the S J Geophysics report for further information.

The claims Concha 19 - 21 show some lineals, (fault) trends in a North Westerly direction, Deer Valley N. E. Fault Concha 4.

308CC9101

NORTH ZONE  
GEO PHYSICAL SURVEYED  
AREA - CONCHA 1+2



SOUTH ZONE  
GEO PHYSICAL  
SURVEYED AREA

CONCHA CLAIM GROUP  
MINOR MOUNTAIN  
PRINCETON, B.C.  
MAP 92N/8W  
SIMILKAMEEN, M.I.D.

0 500 1000 m  
SCALE (APPROX) WAS  
AIR PHOTO (COLOR)



D. HOPPER DEC 97  
13

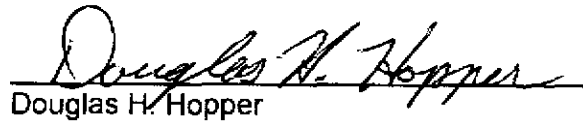
## STATEMENT OF QUALIFICATIONS

### DOUGLAS H. HOPPER

I attended Haileybury School of Mining during the years 1962 to 1966 studying Mining Technology.

Since the year 1964, I have worked with Hudson Bay Exploration, Kennecot Exploration, Sumitome Exploration, and a number of other exploration companies as a field geologist, underground geologist, Diamond Drill supervisor and other related duties concerning mining.

16 January 1997

  
Douglas H. Hopper

**CONCHA PROPERTY EXPENSES 1997 - 1998**

Oct 8 - 12/97	Wages for D. Hopper, 5 days @ \$250/day	\$ 1,250.00
Oct 9 - 12/97	3.5 days wages for N. WoychapeN @ \$250/day	875.00
Oct 9 - 12/97	3.5 days truck rent @ \$110/day	385.00
Oct 8 - 12/97	Meals for 4 days	160.00
Oct 12/97	Bus	36.33
Oct 8 - 12/97	4 days room rent	200.00
Oct 6/97	Concha Top Map	11.35
Oct 6/97	Drafting - Printing expenses	12.08
Sept 29/97	Assay for Pt-Pa (96-6215R)	20.33
Oct 30/97	Assaying 97-6223	17.30
Nov 13/97	Assaying 44 soils and 6 rock samples (97-6518)	754.24
Nov 24 - 26/97	Drafting expense	34.79
Nov 17/97	Drafting expense	20.97
Nov 10/97	Stationary	8.27
Nov 12/97	Drafting Expenses	95.21
Nov 12-97	Photos Concha Area	124.37

Sub-total	\$ 4,005.24
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Nov 19- Dec 11/97	Drafting	\$ 900.00
Nov 19 - Jan 30/98	Report, research, etc.	800.00

Total	\$ 5,705.24
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**CONCHA PROPERTY EXPENSES - GEOPHYSICAL WORK 1997 - 1998**

Oct 7/97	Courier Service	\$ 24.61
Oct 21/97	Acme Analytical, Description of Geochem Results	28.36
Oct 21/97	Courier Service	8.56
February 10/97	Typing Services	50.00
Oct 27/97	SJ Geophysics, invoice no. 40597	24,215.27
Dec 19/97	S.J.V. Consultants, invoice no. 60397	3,292.93

Total	\$ 27,619.73
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G.S.T.	1695.07
G.S.T.	215.43
<b>TOTAL</b>	<b>29,530.23</b>



**ACME ANALYTICAL LABORATORIES LTD.**

852 E. Hastings St. Vancouver, B.C. Canada V6A 1R6

Phone: (604) 253-3158 Fax: (604) 253-1716

Toll Free: 1-800-990-ACME E-Mail: acme\_labs@minklink.bc.ca

**METHOD FOR WET GEOCHEM GOLD ANALYSIS**

**Sample Preparation**

Soils and sediments are dried(60 deg. C) and sieve to -80 mesh.

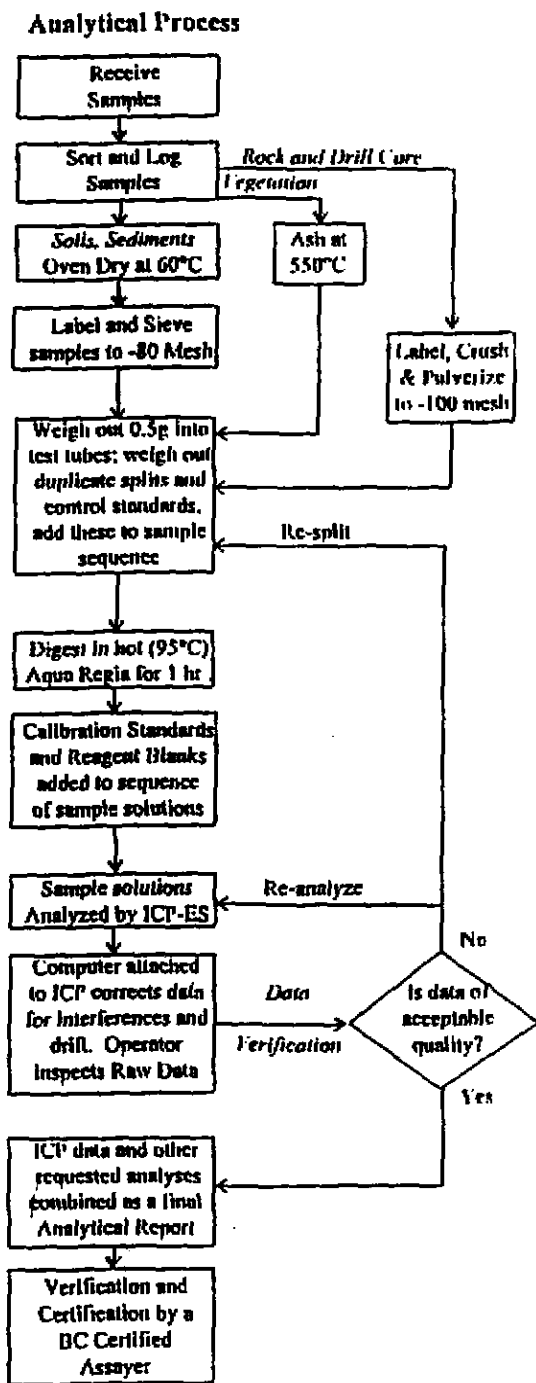
Rocks and cores are crushed and pulverized to -100 mesh.

**Sample digestion**

10g samples, ignite at 600 deg. C for four hours, digest with 3:1:2 mixture HCL:HNO<sub>3</sub>:H<sub>2</sub>O in hot water bath for one hour. 50ml digested solution is extracted into 10 ml MIBK (methyl-isobutyl ketone). The organic fraction is then analyzed for gold using Varian graphite furnace AA ( Spectr 10 plus). Detection for gold is 1 ppb.



**METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE  
 GROUP 1D - 30 ELEMENT ICP BY AQUA REGIA**



**Comments**

**Sample Preparation**

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 microns), rocks and drill core are crushed and pulverized to -100 mesh (-150 microns). Plant samples are dried (60°C) and pulverized or dry ashed (550°C). Moss-mat samples are dried (60°C), pounded to loosen trapped sediment then sieved to -80 mesh. At the clients request, moss mats can be ashed at 550°C then sieved to -80 mesh although this can result in the potential loss by volatilization of Hg, As, Sb, Bi and Cr. A 0.5 g split from each sample is placed in a test tube. A duplicate split is taken from 1 sample in each batch of 34 samples for monitoring precision. A sample standard is added to each batch of samples to monitor accuracy.

**Sample Digestion**

Aqua Regia is a 3:1:2 mixture of ACS grade conc. HCl, conc. HNO<sub>3</sub> and demineralized H<sub>2</sub>O. Aqua Regia is added to each sample and to the empty reagent blank test tube in each batch of samples. Sample solutions are heated for 1 hr in a boiling hot water bath (95°C).

**Sample Analysis**

Sample solutions are aspirated into and ICP emission spectrograph (Jarrel Ash AtomComp model 800 or 975) for the determination of 30 elements comprising: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

**Data Evaluation**

Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leang, other certified assayers are Dean Toye and Jacky Wang.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
44E 40+50N	1	66	7	56	<.3	8	10	754	2.70	8	<8	<2	3	37	.5	<3	<3	72	.56	.078	12	16	.38	160	.09	4	1.73	.02	.19	<2	6
44E 40+00N	2	87	9	95	<.3	12	14	1198	3.38	19	<8	<2	<2	47	1.2	<3	<3	74	.83	.100	12	18	.45	322	.08	6	1.89	.02	.25	<2	5
53+50E 42+50N	1	79	9	88	<.3	9	9	866	2.43	5	<8	<2	<2	93	.8	<3	<3	62	1.14	.145	13	16	.36	273	.08	6	1.72	.02	.22	<2	1
53+50E 42+00N	1	69	9	91	<.3	10	11	888	3.05	7	<8	<2	2	216	.9	<3	<3	75	1.12	.129	13	19	.57	179	.09	6	2.24	.02	.27	<2	<1
53+50E 41+50N	1	57	8	84	<.3	7	9	886	2.52	7	<8	<2	<2	82	.5	<3	<3	62	1.05	.114	13	15	.43	239	.08	6	1.87	.02	.16	<2	<1
53+50E 41+00N	1	56	9	77	<.3	9	9	807	2.41	5	<8	<2	<2	69	.6	<3	<3	63	.95	.141	12	15	.32	218	.08	5	1.52	.02	.16	<2	<1
53+50E 40+50N	1	51	8	77	<.3	10	9	812	2.34	5	<8	<2	<2	86	.5	<3	<3	61	1.05	.129	10	16	.36	208	.09	6	1.56	.02	.21	<2	<1
53+50E 40+00N	1	56	7	71	<.3	12	10	891	2.53	8	<8	<2	<2	86	.6	<3	<3	65	1.07	.123	10	18	.43	204	.10	6	1.78	.02	.21	<2	<1
RE 53+50E 40+00N	<1	58	6	74	<.3	12	10	920	2.64	10	<8	<2	<2	88	.7	<3	<3	68	1.10	.127	11	19	.45	209	.10	6	1.85	.02	.22	<2	<1
53+50E 39+50N	<1	56	6	82	<.3	12	10	939	2.45	9	<8	<2	<2	65	.9	<3	<3	62	1.10	.141	10	18	.40	209	.09	5	1.80	.02	.22	<2	3
53+50E 39+00N	<1	54	4	70	<.3	11	9	780	2.43	7	<8	<2	<2	61	.6	<3	<3	63	.75	.099	11	18	.38	189	.10	5	1.83	.02	.20	<2	1
STANDARD C3/AU-S	26	67	34	158	5.3	36	11	739	3.46	56	21	3	20	31	22.6	16	22	85	.58	.086	21	179	.59	151	.11	20	1.98	.04	.16	23	51
STANDARD G-1	<1	3	<3	40	<.3	5	4	521	1.98	<2	<8	<2	4	75	<.2	<3	<3	43	.64	.087	10	14	.58	229	.15	4	1.00	.08	.47	6	<1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158

FAX (604) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Hopper, Doug File # 97-6223

203 - 828 W. Hastings St., Vancouver BC V6C 4C8

*COUNCHA CLAIM*



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
41+25N 42E	1	2016	8	165	1.2	7	22	1997	5.22	4	<8	<2	<2	255	2.5	<3	<3	163	9.96	.101	7	11	2.19	515	.01	19	2.00	.02	.09	<2

ICP - .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 MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: ROCK

DATE RECEIVED: OCT 21 1997

DATE REPORT MAILED: *Oct 30/97*

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Hopper, Doug File # 97-6518 Page 1  
203 - 828 W. Hastings St., Vancouver BC V6C 4C8

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	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppb		
43N 49+00E	1	78	5	57	<.3	7	7	655	2.20	3	<8	<2	<2	516	.4	<3	<3	57	1.31	.109	10	13	.47	114	.06	10	1.45	.04	.17	<2	<1	
43N 49+50E	<1	74	7	66	<.3	6	7	614	2.13	3	<8	<2	<2	719	.3	<3	<3	56	1.71	.136	11	13	.51	133	.05	17	1.27	.04	.25	<2	1	
43N 50+00E	1	69	8	60	<.3	7	8	863	2.14	<2	<8	<2	<2	460	.4	<3	<3	57	1.08	.132	11	12	.38	195	.06	8	1.34	.02	.19	<2	<1	
43N 50+50E	1	54	5	44	<.3	7	7	593	2.00	3	<8	<2	<2	662	.2	<3	<3	53	1.26	.098	9	12	.51	72	.05	11	1.07	.05	.22	<2	5	
43N 51+00E	1	60	9	59	<.3	11	10	898	2.74	5	<8	<2	<2	177	.4	<3	3	72	1.09	.102	12	19	.54	177	.10	9	1.85	.11	.30	<2	<1	
43N 51+50E	1	71	12	75	.3	17	14	1071	3.68	9	<8	<2	<2	69	.4	3	<3	96	1.15	.125	13	28	.67	192	.13	5	2.22	.02	.24	<2	<1	
43N 52+00E	1	336	11	86	<.3	14	15	1210	3.50	9	<8	<2	<2	81	.3	3	<3	92	1.09	.154	15	24	.60	294	.10	5	2.12	.02	.25	<2	4	
43N 52+50E	2	179	9	112	.3	13	18	1370	4.16	11	<8	<2	2	181	.7	5	<3	98	1.34	.130	15	18	.64	335	.06	8	2.33	.02	.29	<2	<1	
43N 53+00E	1	96	12	103	<.3	14	13	1088	3.08	10	<8	<2	<2	97	.5	5	<3	76	1.22	.166	14	22	.51	266	.09	7	2.14	.02	.27	<2	<1	
43N 53+50E	<1	76	11	83	.3	16	13	1000	3.52	8	<8	<2	2	64	.3	4	<3	90	1.18	.128	14	25	.66	268	.10	5	2.20	.02	.27	<2	1	
44E																																
41E 39+50N	6	134	16	153	.3	19	25	1986	5.11	42	<8	<2	<2	44	2.9	7	<3	153	1.34	.162	14	44	1.59	203	.08	8	3.28	.02	.23	<2	21	
42E 43+00N	1	78	10	66	.3	9	10	990	2.56	4	<8	<2	2	88	.3	<3	<3	63	1.07	.119	14	14	.44	267	.06	7	1.66	.02	.27	<2	<1	
42E 42+50N	1	58	9	65	<.3	8	7	687	2.18	2	<8	<2	2	63	<.2	<3	<3	57	.67	.088	13	15	.29	224	.08	5	1.65	.02	.20	<2	<1	
42E 42+00N	1	31	10	54	<.3	7	7	578	2.14	<2	<8	<2	2	53	<.2	<3	<3	57	.56	.076	12	16	.22	172	.08	4	1.43	.02	.18	<2	<1	
42E 41+50N	<1	42	12	84	<.3	9	9	804	3.01	5	<8	<2	3	44	.4	5	<3	77	.68	.082	15	18	.32	232	.10	6	2.06	.02	.26	2	<1	
RE 42E 41+50N	<1	39	6	77	<.3	7	8	762	2.69	4	<8	<2	2	41	.2	<3	<3	68	.64	.075	14	16	.31	222	.09	5	1.95	.02	.25	<2	2	
42E 41+00N	<1	106	11	58	<.3	8	9	744	2.94	5	<8	<2	3	35	.2	<3	<3	78	.52	.068	15	17	.31	181	.10	4	1.85	.02	.22	<2	1	
42E 40+50N	<1	77	12	65	<.3	15	14	994	3.16	7	<8	<2	2	38	.3	3	<3	85	.68	.081	14	27	.46	169	.11	5	2.31	.02	.31	<2	2	
42E 40+00N	1	88	8	64	.3	14	18	1036	3.58	10	<8	<2	3	52	.2	3	<3	99	.66	.082	13	29	.60	137	.13	3	2.18	.02	.24	<2	1	
42E 39+50N	<1	121	7	54	.3	16	18	946	3.38	11	<8	<2	<2	236	.3	3	<3	92	3.86	.094	10	31	.84	144	.10	12	2.22	.02	.28	<2	1	
42E 39+00N	2	123	13	75	.3	18	22	1293	3.78	12	<8	<2	3	204	.5	<3	<3	103	1.34	.122	13	33	.96	171	.09	9	2.22	.02	.38	<2	1	
42E 38+50N	1	141	7	68	<.3	14	17	1124	4.20	10	<8	<2	2	50	.3	4	<3	118	1.04	.137	13	27	.91	192	.08	5	2.09	.01	.32	<2	5	
42E 38+00N	1	86	11	74	<.3	12	13	1042	3.46	4	<8	<2	2	48	.2	3	<3	94	.80	.115	13	23	.55	226	.10	5	2.16	.02	.28	<2	1	
43E 43+00N	1	96	8	61	<.3	11	13	837	3.18	6	<8	<2	2	176	<.2	4	<3	82	1.16	.107	15	20	.64	197	.07	7	1.85	.02	.29	<2	1	
43E 42+50N	1	60	7	59	<.3	9	10	732	2.45	4	<8	<2	2	121	.4	<3	<3	61	.96	.119	14	16	.41	222	.08	6	1.91	.02	.27	<2	1	
43E 42+00N	1	58	6	58	<.3	8	10	667	2.68	2	<8	<2	2	65	<.2	<3	<3	71	.74	.100	14	16	.42	169	.08	5	1.75	.02	.24	<2	1	
43E 41+50N	1	59	8	58	<.3	7	10	716	2.59	3	<8	<2	3	50	.2	<3	<3	69	.67	.104	14	15	.39	175	.08	5	1.77	.02	.25	<2	2	
43E 41+00N	1	48	10	49	<.3	7	8	581	2.34	4	<8	<2	3	50	.3	<3	<3	64	.58	.077	13	15	.32	151	.09	5	1.54	.02	.22	<2	1	
43E 40+50N	1	55	10	67	<.3	11	11	905	3.08	9	<8	<2	2	41	<.2	<3	<3	84	.56	.073	14	24	.38	159	.11	5	2.29	.02	.24	<2	1	
43E 40+00N	3	130	53	134	.4	20	21	1257	4.24	33	<8	<2	2	41	1.8	3	<3	98	.87	.106	16	26	.67	253	.06	6	1.95	.01	.29	<2	7	
44E 43+00N	1	70	8	65	<.3	7	7	510	1.62	3	<8	<2	<2	70	.6	<3	<3	41	1.84	.139	10	12	.33	129	.05	9	1.53	.03	.10	<2	<1	
44E 42+50N	1	63	9	80	<.3	13	14	1169	3.34	7	<8	<2	2	44	.4	<3	<3	91	.62	.123	12	23	.45	170	.15	3	3.20	.02	.14	<2	<1	
44E 42+00N	1	117	14	65	<.3	7	15	978	3.25	10	<8	<2	2	62	.5	<3	4	91	.90	.120	15	17	.61	144	.09	5	2.22	.02	.22	<2	5	
44E 41+50N	1	88	9	48	<.3	8	12	603	2.84	8	<8	<2	3	45	.4	<3	<3	79	.49	.083	14	18	.46	138	.10	4	2.05	.02	.17	<2	1	
44E 41+00N	1	61	7	51	<.3	6	9	664	2.20	2	<8	<2	2	47	.4	<3	<3	59	.52	.088	12	13	.32	171	.07	4	1.61	.01	.19	<2	4	
STANDARD C3/AU-S	27	65	38	156	5.8	39	12	784	3.51	58	18	3	20	31	23.9	20	23	87	.62	.088	20	188	.61	150	.11	19	1.96	.04	.15	24	43	
STANDARD G-1	1	2	7	43	<.3	7	5	589	2.20	<2	<8	<2	5	85	<.2	<3	<3	47	.74	.098	11	17	.65	252	.17	4	1.12	.10	.52	5	<1	

ICP - .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 MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.

- SAMPLE TYPE: SOIL AU\* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 3 1997 DATE REPORT MAILED: Nov 18/97 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA

## GEOCHEMICAL ANALYSIS CERTIFICATE

Hopper, Doug File # 97-6519

203 - 828 W. Hastings St., Vancouver BC V6C 4C8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
PL 187W	1	3	<3	58	<.3	10	23	1079	4.79	<2	<8	<2	<2	94	<.2	<3	<3	109	4.27	.064	6	27	1.97	76	.03	4	2.13	.02	.11	<2	<1
PL 244W	<1	1	4	47	<.3	7	20	1085	4.52	<2	<8	<2	<2	86	<.2	<3	<3	104	5.86	.061	6	16	1.70	78	.03	4	1.80	.02	.13	<2	<1
PL 266W	1	<1	<3	39	<.3	7	15	828	4.74	<2	<8	<2	<2	110	<.2	<3	<3	96	4.33	.077	7	15	1.28	292	.04	3	1.63	.02	.17	<2	<1
PL 329W	<1	103	<3	62	<.3	5	10	1101	5.37	2	<8	<2	<2	78	<.2	<3	<3	105	4.45	.135	7	5	1.41	61	.03	3	1.61	.02	.18	<2	<1
PL 329W dup.	1	752	<3	33	<.3	13	15	872	4.14	4	<8	<2	<2	118	.2	<3	<3	179	6.71	.149	9	28	1.75	222	.01	<3	1.72	.04	.04	<2	<1
44E 39+50N	7	47	5	45	<.3	9	13	1096	3.33	18	<8	<2	<2	186	.3	<3	<3	114	17.03	.088	5	29	1.35	47	.12	<3	1.45	.01	.03	<2	4
RE 44E 39+50N	8	50	5	49	<.3	10	14	1187	3.64	19	<8	<2	<2	199	.4	<3	<3	122	18.55	.094	6	28	1.47	51	.12	<3	1.57	.01	.03	<2	5

ICP - .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 MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: ROCK AU\* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)  
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 3 1997 DATE REPORT MAILED: NOV 18/97 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

## GEOCHEM PRECIOUS METALS ANALYSIS

Doug Hopper PROJECT CONCHA CLAIMS File # 96-6215R

203 - 828 W. Hastings St., Vancouver BC V6C 4C8

SAMPLE#	Au** ppb	Pt** ppb	Pd** ppb
42+00N <sup>36+00E</sup> <del>41+00E</del>	55	2	12

30 GRAM SAMPLE FIRE ASSAY AND ANALYSIS BY ICP/AA.  
 - SAMPLE TYPE: ROCK PULP

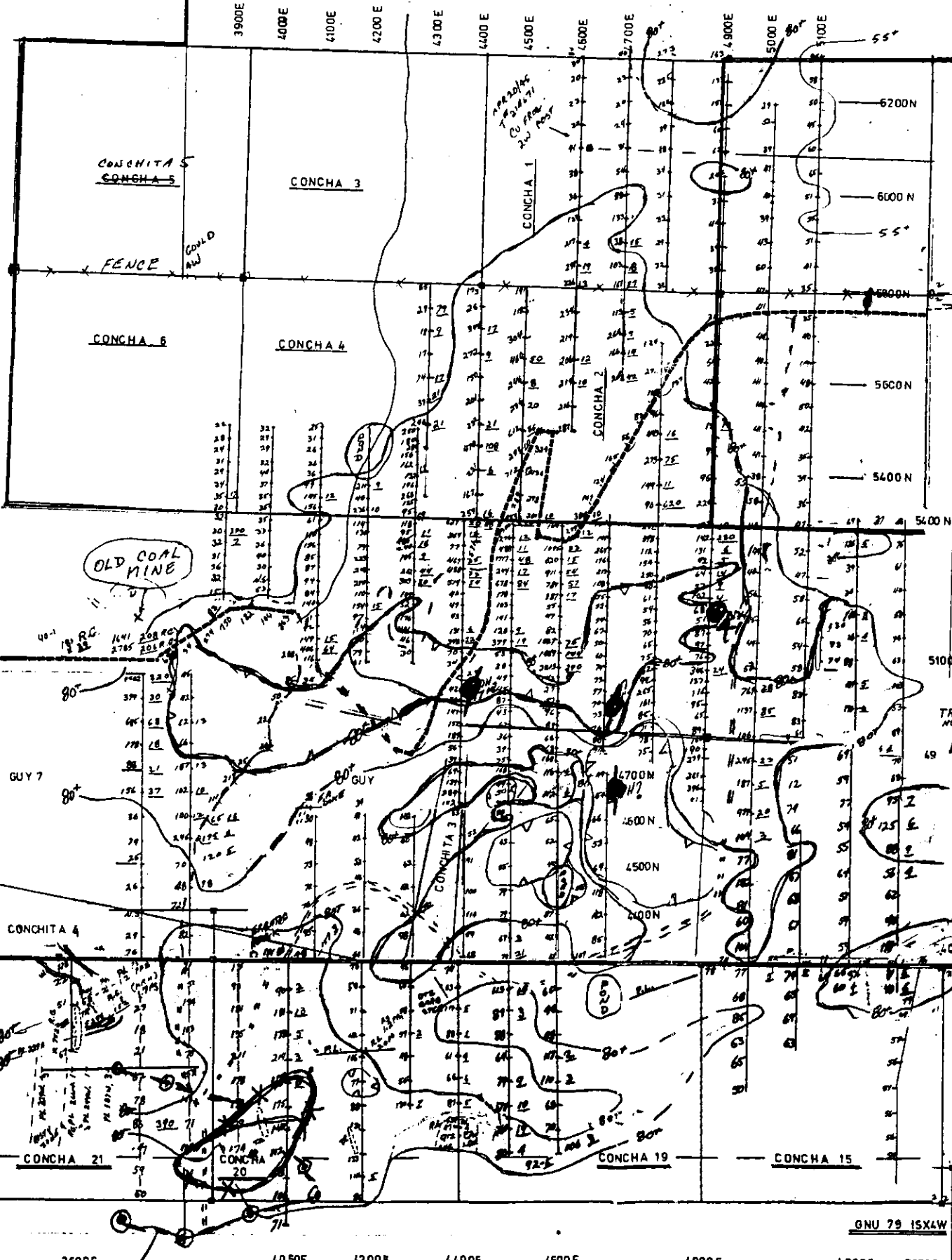
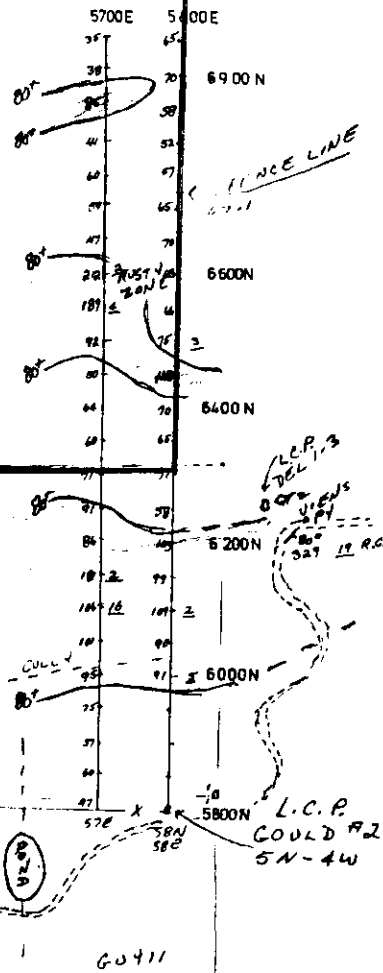
DATE RECEIVED: SEP 22 1997 DATE REPORT MAILED: Sept 29/97 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

1  
*or*

25,448

GOULD #2  
 4W-5N

GOULD #2  
 4W-2N



1977  
 ● DDH-4 232'  
 GUY 10 0.25-0.30% Cu  
 ● DDH-BIG I OXTON  
 DEV. 1987 0.5 AU  
 5' INTER-0.9% Cu @ 14'-PA.  
 LEGEND

SCALE	0 100 200 300 400 500 600 700 800 900 1000 1150
CLAIM POST	•
ROAD	---
MAPS	92H/BW • 92H/050
STRIKE + DIP	—/—
RG - ROCK SAMPLE	○
P.L. - PIPE LINE	—
COPPER-GOLD GEOCHEMISTRY MAP	
COPPER	0.25-0.30% Cu
GOLD	20 P.P.M.

\* MAGNETIC LOW (ALTERATION)  
 ⊙ CHARGEABILITY ZONE (HIGH BACK GROUND)  
 GNU 88 1N15W

SHISLER CR.

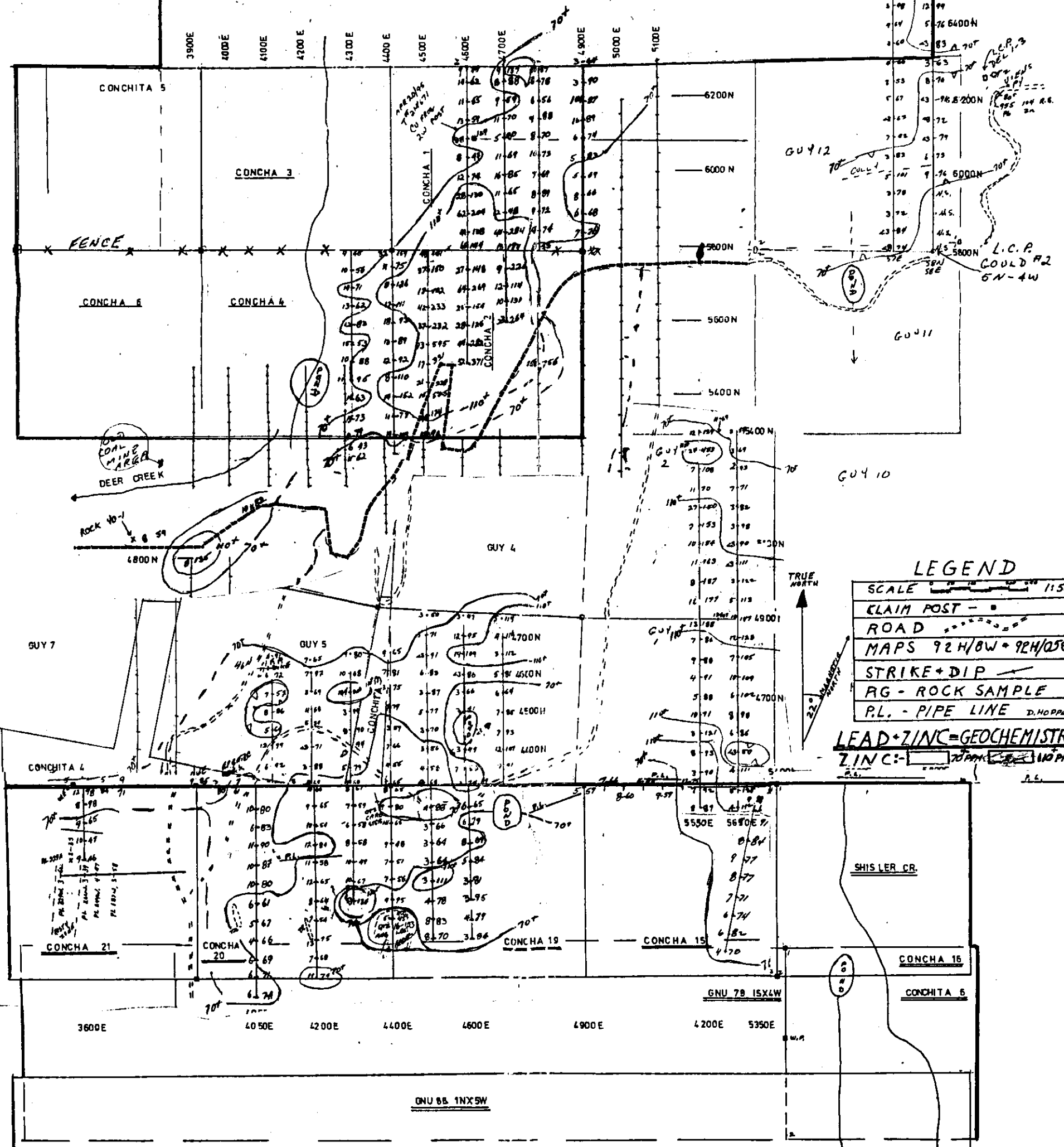
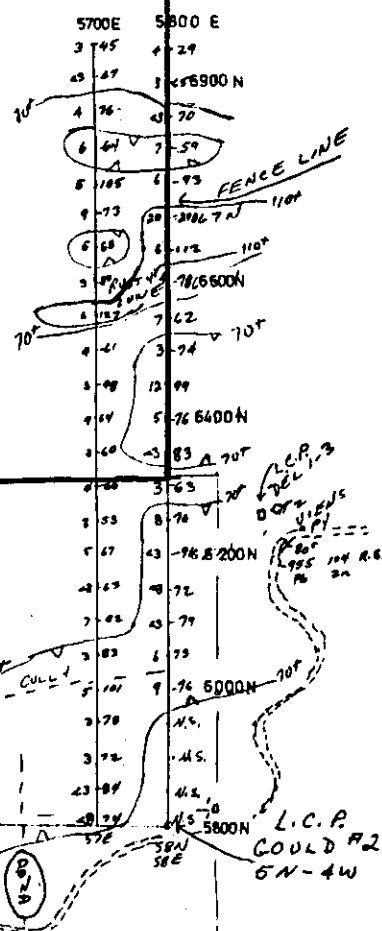
GNU 79 15X4W

CONCHITA 6

25,448

GOULD #2  
4W x 5N

GOULD #2  
4W-2N



**LEGEND**

SCALE	1" = 1150'
CLAIM POST	— • —
ROAD	— — — — —
MAPS	92H/BW + 92H/050
STRIKE + DIP	— / —
RG - ROCK SAMPLE	—
P.L. - PIPE LINE	—

LEAD + ZINC = GEOCHEMISTRY  
ZINC: —

GNU 85 1N x 5W

GNU 78 15 x 4W

# LEGEND

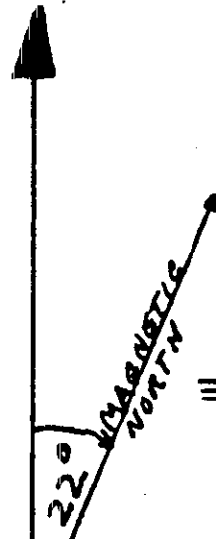
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CLAIM POST	-	•
ROAD	- - - - -	==
MAPS	92H/8W + 92H/05B	
STRIKE + DIP	- / -	
RG - ROCK SAMPLE		
P.L. - PIPE LINE		NOV 97 D. HOPPER

## GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT

# 25,448

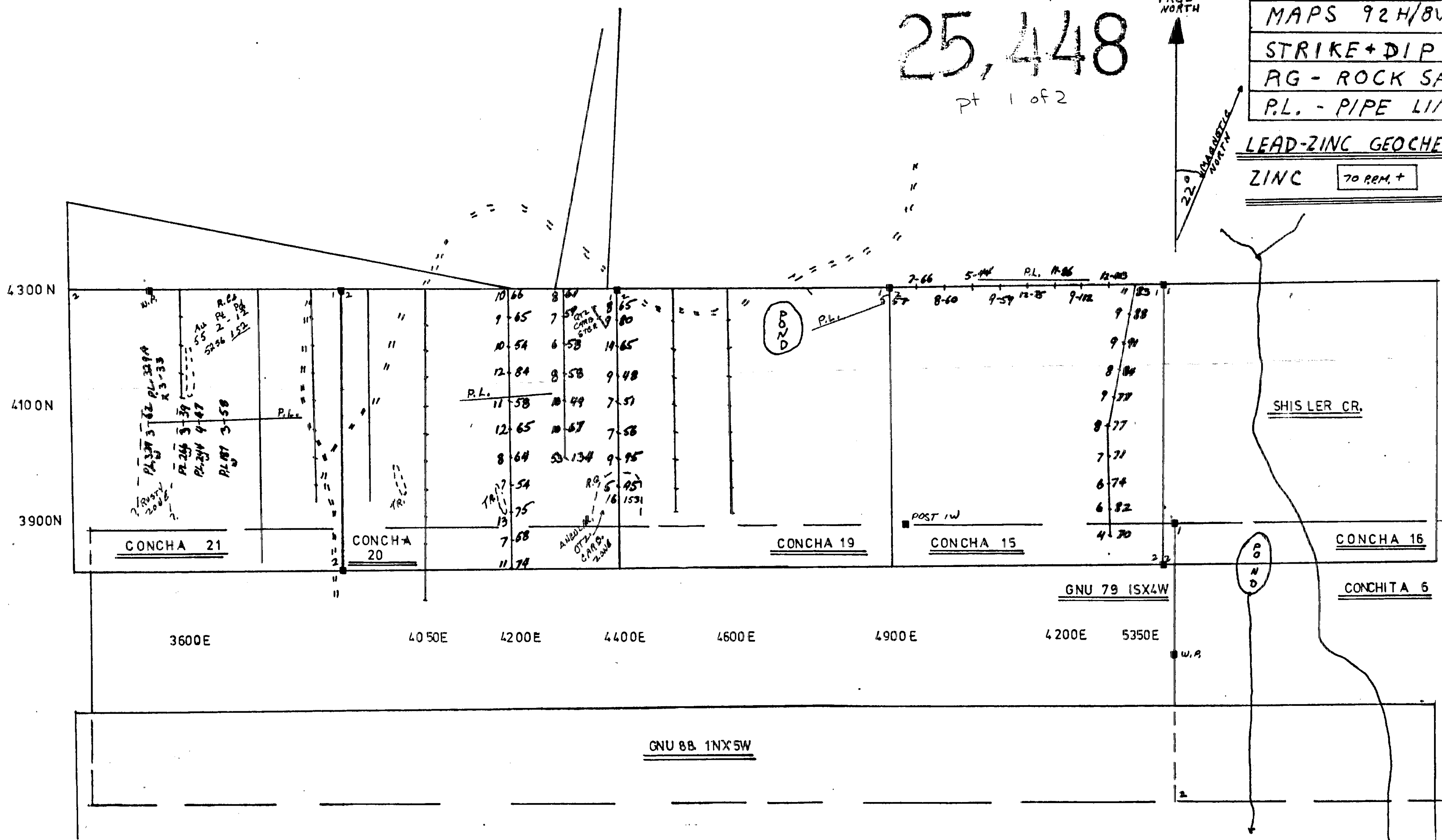
Pt 1 of 2

TRUE NORTH



### LEAD-ZINC GEOCHEMISTRY MAP

ZINC	70 PPM +	110 PPM +
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MAPS FOR  
1997  
REPORT

