

CHU Mo-Cu PROSPECT

REPORT

on

GEOCHEMICAL AND GEOLOGICAL SURVEY AUGUST 8-22, 1977

NECH AND AKO CLAIMS (Nech Group)

Owner

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

LOCATED 6.5 KILOMETERS WEST OF WEST END OF CHUTANLI LAKE

OMINECA MINING DIVISION

(53°21'N, 124°37'W)

(93F/7E)

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D.H. Olson, P.Eng., B.C.

February/78

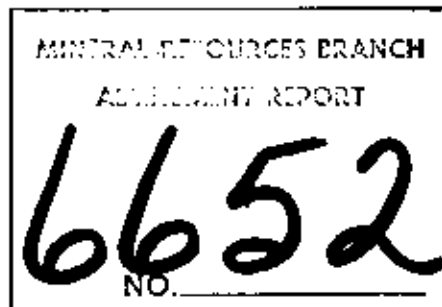


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## INTRODUCTION

The Nech, Nech #1, Nech #2 and AKO #1 mineral claims (Appendix A) discussed in this report, are owned by Asarco Exploration Company of Canada, Limited and are contiguous claims located approximately 82.5 kilometers southerly of Vanderhoof and 6.5 kilometers west of Chutanli Lake in the Omineca Mining Division of British Columbia. (Figures 1, 2 and 3.)

During the period August 8th to August 22nd, 1977, Asarco Exploration Company of Canada, Limited, under the direction and supervision of D.H. Olson, Professional Engineer of the Province of British Columbia, carried out a program of geochemical soil surveying and geologic mapping following establishment of a reference grid by means of chain and compass surveying. A total of 194 soil, 5 silt and 3 rock chip samples were collected and analyzed for Cu and Mo (Appendix B). Geologic mapping covered 19 units or 475 hectares at a scale of 1:6000 (Figure 6).

## LOCATION AND ACCESS

Mineral claims covering the Chu Mo-Cu prospect are situated principally on the south-facing slope of the Nechako Range, some 6.5 kilometers west of the west end of Chutanli Lake. Elevations within the claim group range from 1220 to 1400 meters, approximately, above sea level (Figure 2).

Equipment, supplies and personnel were transported by 4-wheel drive vehicle from and to Vancouver via Vanderhoof, to and from a point on the Kluskus-Ootsa Road approximately 121.5 kilometers from Vanderhoof and 2.5 kilometers south of the Chu Mo-Cu prospect. From this point, a helicopter was chartered to move equipment, supplies and personnel to and from the Nech Claim Group.

#### FIELD PROCEDURE

A soil survey and mapping grid was established by chain and compass surveying, contiguous on the Nech, Nech #1, Nech #2 and AKO #1 mineral claims. North-south grid lines spaced 90 to 200 meters apart were well marked with orange flagging tape at station intervals of 61 meters approximately. Lines marking claim boundaries are likewise well marked by orange flagging tape at 50 meter intervals. In all, some 29 kilometers of gridded lines were established on the above claims.

#### GEOCHEMICAL SURVEY

At 61 meter intervals on lines spaced 90 to 200 meters apart, whenever possible, soil samples were carefully collected from the "B" soil horizon at depths ranging up to 0.5 meters below the ground surface. During the program, 194 soil samples and 5 stream silt samples were collected and determinations made for Cu and Mo. In addition, 3 rock chip samples were collected and determinations made

for Mo, Cu, Pb, Zn, Ag and Au. The results of the analysis are shown on Figures 4 & 5, and a listing of all samples with assays is shown in Appendix B.

Detailed chemical analysis of the soil, silt and rock chip samples were made by Acme Analytical Laboratories Limited of Burnaby, B.C. Sample preparation, digestion and chemical analysis for Mo, Cu, Pb, Zn and Ag\* are detailed as follows:

#### SAMPLE PREPARATION

Silt and soil samples are dried at 75°C overnight and sieved to -80 mesh. Rock samples are ground to 98% -100 mesh.

#### DIGESTION

A 0.50 gram sample is digested with dilute aqua regia in a hot water bath for one hour and diluted to 10 mls. with demineralized water.

#### DETERMINATIONS

All the above elements are determined by atomic absorption from the solution (\*with background correction).

In the geochemical analysis for Au, the following procedures are required:

#### DIGESTION AND EXTRACTION

A 10 gram sample which has been ignited overnight at 600°C is digested hot with dilute aqua regia, and the clear solution is extracted with methyl isobuthyl ketone.

#### DETERMINATION

Au is determined by atomic absorption from the methyl isobuthyl ketone extractant and a background correction is applied.

#### GEOLOGIC SURVEY

Geologic mapping was carried out on the Nech, Nech #1, Nech #2 and AKO #1 claims by R. Basnett and M. Gruen between August 11th and 20th, 1977, and by D.H. Olson between August 11th and 15th, 1977. In all, some 475 hectares were mapped on a scale of 1:6000. Chain and compass control fixed the location of rock outcrops with respect to the claim boundaries and grid.

#### INTERPRETATION

The grid area, except for some small swamps, is heavily forested with Lodgepole pine, Alpine fir and Engelman spruce. Glacial till extends over most of the grid area, and it is thought to average approximately 4.5 meters in thickness but may approach 15 meters in thickness. Good soil samples representative of the "B" soil horizon were

obtained from all but a few sample sites where swampy conditions were encountered.

The purpose of the geochemical soil survey and the geologic mapping program on the particular claims of interest was to try and establish northwest and southwest extensions of Cu and Mo soil anomalies which overlie molybdenite and chalcopyrite bearing hornfelsed siltstones on the adjoining Chu 33 to 36 mineral claims, and to test for parallel Mo-Cu soil anomalies to the north and east. Results of the soil geochemistry and geologic mapping are shown on Figures 4, 5 and 6, respectively.

Soils containing greater than 5 ppm Mo and/or 40 ppm Cu are determined to be anomalous in Mo and Cu, respectively. In general, the highest Mo and Cu values overlie the meta-sedimentary volcanic rocks to the north of the contact with the granodiorite pluton. The exceptions are the two areas of anomalous Mo-Cu values which appear to overlie granodiorite in the SW corner of the Nech claim and the east-central portion of the Nech #1 claim. Barren granodiorite is noted to underlie the most westerly of the two areas, whereas no rock exposures were found in the vicinity of the anomalous Mo-Cu values to the east.

Paucity of rock outcrops throughout the claims area makes the task of correlating anomalous geochemical soil values with underlying rock formations rather difficult. It is apparent from diamond drilling programs carried out by

Asarco in 1970, and by Rio Tinto Canadian Exploration Limited in 1970 and 1971, that the most interesting Mo-Cu soil anomalies are underlain by sedimentary and volcanic rocks belonging to the Hazelton Group of Jurassic age (Tipper, 1963). These rocks which trend northwesterly and dip very steeply, more or less parallel the contact with the intrusive granodiorite pluton to the south.

A section of hornfelsed siltstone up to 500 meters thick extends northerly from the granodiorite contact and is the principal host rock for the Mo-Cu values which are contained in a well developed quartz vein stockwork. Molybdenite and chalcopyrite occur with the accessory minerals, pyrite and pyrrhotite. Secondary biotite and chlorite are the principal alteration minerals.

#### SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Anomalous Mo-Cu values in soils overlying favorable host sedimentary and volcanic rocks of the Hazelton Group, occur within a zone approximately 2835 meters long in a northwesterly direction, and an undetermined width exceeding 500 meters in a northeasterly direction. Further investigation of the geochemical anomalies, preferably by diamond drilling, appears warranted.



EXPENDITURES

GEOCHEMICAL SOIL SURVEY & GEOLOGIC MAPPING  
NECH & AKO CLAIMS

I.	<u>TRAVEL TIME</u>	
	<u>D.H. Olson, R. Basnett, M. Gruen</u> 8, 9, 10 Aug/77, Vancouver to Chu Prospect	\$ 381.00
	<u>D.H. Olson</u> 16 Aug/77, Chu Prospect to Vancouver	67.00
	<u>R. Basnett, M. Gruen</u> 21, 22 Aug/77, Chu Prospect to Vancouver	120.00
		<u>\$ 568.00</u>
II.	<u>GRID, GEOCHEMICAL SOIL &amp; GEOLOGICAL SURVEY</u>	
	R. Basnett - 11-20 Aug/77, 10 days @ \$40	\$ 400.00
	M. Gruen, 11-20 Aug/77, 10 days @ \$20	200.00
	D.H. Olson, 11-15 Aug/77, 5 days @ \$67	335.00
		<u>\$ 935.00</u>
III.	<u>SUBSISTENCE</u>	
	11-15 Aug/77, 3 men @ \$20/man day	\$ 300.00
	16-20 Aug/77, 2 men @ \$20/man day	200.00
		<u>\$ 500.00</u>
IV.	<u>ASSAYING</u>	
	5 silt samples - Mo and Cu, determinations and sample preparation @ \$ 1.80	\$ 9.00
	194 soil samples - Mo & Cu @ \$ 1.80 determinations & sample preparation	349.20
	3 rock samples- Mo, Cu, Pb,Zn, Ag, & Au, determinations & sample preparation @ \$ 5.55	16.65
	200 soil sample envelopes @ \$43.32/1000	8.66
		<u>\$ 383.51</u>
V.	<u>MOTEL AND MEALS IN TRANSIT</u>	<u>\$ 311.15</u>
VI.	<u>TAXIS</u>	<u>\$ 20.80</u>

VII.	<u>ASARCO VEHICLE(4 x 4 Suburban)</u> Vancouver to Chu Claims and return 1460 miles @ 25¢ /mile	\$ <u>365.00</u>
VIII.	<u>AIRFARE</u>  D.H. Olson, P.G. to Vancouver, 16 Aug/77	\$ <u>64.80</u>
IX.	<u>HELICOPTER CHARTER (Okanagan Helicopters Ltd.)</u>  10 Aug/77 - Bell 206B (IFX) Prince George to Chu Claims, 1.4 flying hrs. @ \$315.00 + gas and oil	\$ 472.66
	21 Aug/77 - Bell 206B (DYH) Chu claims to Prince George, 1.7 hrs. flying @ \$260 + gas and oil	480.68 \$ <u>953.34</u>
X.	<u>REPORT PREPARATION</u>  D.H. Olson - 4 days @ \$67	\$ <u>268.00</u>
	TOTAL EXPENDITURES	\$ <u>4,369.60</u>

APPENDIX A

MINERAL CLAIM SCHEDULE

<u>GROUP</u>	<u>CLAIM NAME</u>	<u>UNITS</u>	<u>RECORD NUMBER</u>
	(Nech	4	559
	(		
	(Nech #1	8	560
	(		
NECH	(Nech #2	3	715
	(		
	(AKO #1	4	558

## ACME ANALYTICAL LABORATORIES LTD.

Assaying &amp; Trace Analysis

6455 Laurel St., Burnaby, B.C. V5B 3B4

Tel: 299-5242

TO

American Smelting &  
Refining Co.,  
504 - 535 Thurlow St.,  
Vancouver, B. C. V6E 3L2

## ANALYSES CERTIFICATE

File No. 7501

Type of Samples Soils, Slits &  
Rocks

Disposition \_\_\_\_\_

No.	Sample	Mo	Cu						No.
01	AKO # 1SLT	1	72						01
02	2SLT	1	21						02
03	3SL	14	24						03
04	4	1	60						04
05	5	8	22						05
06	6	1	11						06
07	7	2	60						07
08	8	1	6						08
09	9	3	15						09
10	10	5	18						10
11	11	4	24						11
12	12	6	30						12
13	13	5	25						13
14	14	No sample							14
15	15	6	16						15
16	16	14	28						16
17	17	5	17						17
18	18	6	37						18
19	19	5	39						19
20	20	4	12						20
21	21	7	27						21
22	22	1	32						22
23	23SL	1	10	HO					23
24	24SLT	2	78						24
25	25SL	4	11						25
26	26	1	51						26
27	27	1	7						27
28	28	2	12						28
29	29	4	13						29
30	30	6	12						30
31	31	6	15						31
32	32	6	16						32
33	33	11	42						33
34	34	1	10						34
35	35	1	9						35
36	36	8	36						36
37	37	5	19						37
38	AKO #38SL	3	16						38
39									39
40									40

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All results are in parts per million.

DATE SAMPLES RECEIVED Aug. 23, 1977DATE REPORTS MAILED Aug. 25, 1977ANALYST Richard King

APPENDIX B  
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**ANALYSES CERTIFICATE**

File No. 7501

Type of Samples Soils, Silts &

Disposition Rocks

2

No.	Sample	Mo	Cu									No.
01	AKO #39 SL	14	25									01
02	40	2	23									02
03	41	1	15									03
04	42	1	11									04
05	43	8	45									05
06	44	15	16									06
07	45	16	32									07
08	46	7	10									08
09	47	28	29									09
10	48	7	21									10
11	49	3	16									11
12	50	6	29									12
13	51	3	36									13
14	52	1	11									14
15	53	1	9									15
16	54	1	11									16
17	55	2	21									17
18	56	1	11									18
19	57	2	17									19
20	58	3	12									20
21	59	4	9									21
22	60	2	14									22
23	61	28	176									23
24	62	1	11									24
25	63	3	14									25
26	64	1	12									26
27	65	1	12									27
28	66	1	14									28
29	67	1	13									29
30	68	1	15									30
31	69	1	21									31
32	70	1	15									32
33	71	1	11									33
34	72	1	15									34
35	73	2	12									35
36	74	1	10									36
37	75	5	39									37
38	AKO #76 SL	1	10									38
39												39
40												40

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## ANALYSES CERTIFICATE

File No. 7501Type of Samples Sofls, Sflts &  
Rocks

Disposition \_\_\_\_\_

No.	Sample	Mo	Cu								No.
01	AKO #77 SL	3	13								01
02	78	2	17								02
03	79	1	12								03
04	80	2	13								04
05	81	3	17								05
06	82	6	32								06
07	83	1	9								07
08	84	1	11								08
09	85	1	9								09
10	86	1	9								10
11	87	1	12								11
12	88	1	12								12
13	89	1	10								13
14	90	1	10								14
15	AKO #91 SL	1	12								15
16											16
17											17
18											18
19											19
20											20
21											21
22											22
23											23
24											24
25											25
26											26
27											27
28											28
29											29
30											30
31											31
32											32
33											33
34											34
35											35
36											36
37											37
38											38
39											39
40											40

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ANALYSIS CERTIFICATE

File No. 7501

Type of Samples Soils, Slits &  
Rocks

Disposition \_\_\_\_\_

4

No.	Sample	Mo	Cu								No.
01	NECH # 1 SL	1	42								01
02	2	2	29								02
03	3	3	35								03
04	4	2	19								04
05	5	1	10								05
06	6	2	68								06
07	7	1	22								07
08	8	1	38								08
09	9	1	36								09
10	10	1	15								10
11	11	1	24								11
12	12	2	19								12
13	13	1	20								13
14	14	1	30								14
15	15	2	25								15
16	16	1	16								16
17	17	1	27								17
18	18	1	13								18
19	19	1	18								19
20	20	2	24								20
21	21	1	56								21
22	22	1	21								22
23	23	3	37								23
24	24	2	20								24
25	25	1	14								25
26	26	1	16								26
27	27	1	62								27
28	28	6	34								28
29	29	1	26								29
30	30	1	40								30
31	31	6	58								31
32	32	6	52								32
33	33	7	156								33
34	34	4	19								34
35	35	6	29								35
36	36	4	49								36
37	37	11	20								37
38	NECH #38 SL	7	17								38
39											39
40											40

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ANALYST Reavis

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File No. 7501

Type of Samples Soils, Slits & Rocks

Disposition \_\_\_\_\_

**ANALYSES CERTIFICATE**

5

No.	Sample	Mo	Cu									No.
01	NECH #39 SL	8	19									01
02	40	4	12									02
03	41	4	16									03
04	42	1	7									04
05	43	12	22									05
06	44	8	23									06
07	45	3	10									07
08	46	61	132									08
09	47	1	9									09
10	48 SL	1	6									10
11	49 SLT	7	60									11
12	50 SL	1	7									12
13	51 SL	2	9									13
14	52 SLT	10	31									14
15	53 SL	8	48									15
16	54	1	6									16
17	55	1	11									17
18	56	3	8									18
19	57	14	27									19
20	58	5	19									20
21	59	6	16									21
22	60	11	31									22
23	61	2	9									23
24	62	4	18									24
25	63	9	31									25
26	64	5	16									26
27	65	9	21									27
28	66	5	31									28
29	67	11	74									29
30	68	3	13									30
31	69	7	104									31
32	70	12	56									32
33	71	9	48									33
34	72	4	24									34
35	73	5	19									35
36	74	4	18									36
37	75	1	8									37
38	NECH #75 SL	6	18									38
39												39
40												40

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ANALYST [Signature]



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Vancouver, B. C. V6E 3L2

## ANALYSES CERTIFICATE

File No. 7501Type of Samples Soils & Silts

Disposition \_\_\_\_\_

No.	Sample	Mo	Cu									No.
01	NECH #77 SL	3	11									01
02	78	2	14									02
03	79	1	13									03
04	80	13	50									04
05	81	9	29									05
06	82	7	18									06
07	83	4	18									07
08	84	3	16									08
09	85	3	14									09
10	86	4	26									10
11	87	3	41									11
12	88	1	62									12
13	89	1	20									13
14	90	1	60									14
15	91	2	33									15
16	92	2	48									16
17	93	2	9									17
18	94	7	14									18
19	95	4	15									19
20	96	2	13									20
21	97	3	12									21
22	98	2	9									22
23	99	7	10									23
24	100	5	14									24
25	101	26	34									25
26	102	7	24									26
27	103	3	13									27
28	104	3	12									28
29	105	6	16									29
30	106	2	9									30
31	107	1	10									31
32	NECH #108 SL	3	103									32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40

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DATE REPORTS MAILED Aug. 28, 1977  
ANALYST Dean - D.K.

APPENDIX B  
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 6455 Laurel St., Burnaby, B.C. V5B 3B4

Tel: 299-5242

TO

American Smelting &  
 Refining Co.,  
 504 - 535 Thurlow St.,  
 Vancouver, B. C.

**ANALYSES CERTIFICATE**

File No. 7501

Type of Samples Rocks

Disposition \_\_\_\_\_

No.	Sample		Mo	Cu	Pb	Zn	Ag	Au					No.
01	66718R		2	27	21	89	.1	.005					01
02	66719		1	76	11	64	.1	.005					02
03	66720		2	8	6	8	.1	.005					03
04	66743R		2	64	27	<u>122</u>	.5	.005					04
05													05
06													06
07													07
08													08
09													09
10													10
11													11
12													12
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34													34
35													35
36													36
37													37
38													38
39													39
40													40

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DATE SAMPLES RECEIVED Aug. 23, 1977  
 DATE REPORTS MAILED Aug. 30, 1977  
 ANALYST Debra

CERTIFICATION

I, D.H. Olson of the Municipality of South Burnaby,  
British Columbia, hereby certify that;

- (1) I am a graduate of the University of British Columbia  
in 1950 with a B.A. degree in Geology.
- (2) I have been practicing my profession with Asarco since  
1952.
- (3) I am a member of the Association of Professional  
Engineers of British Columbia.

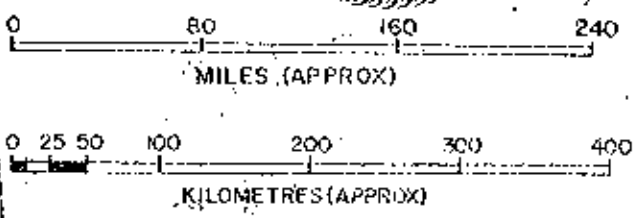
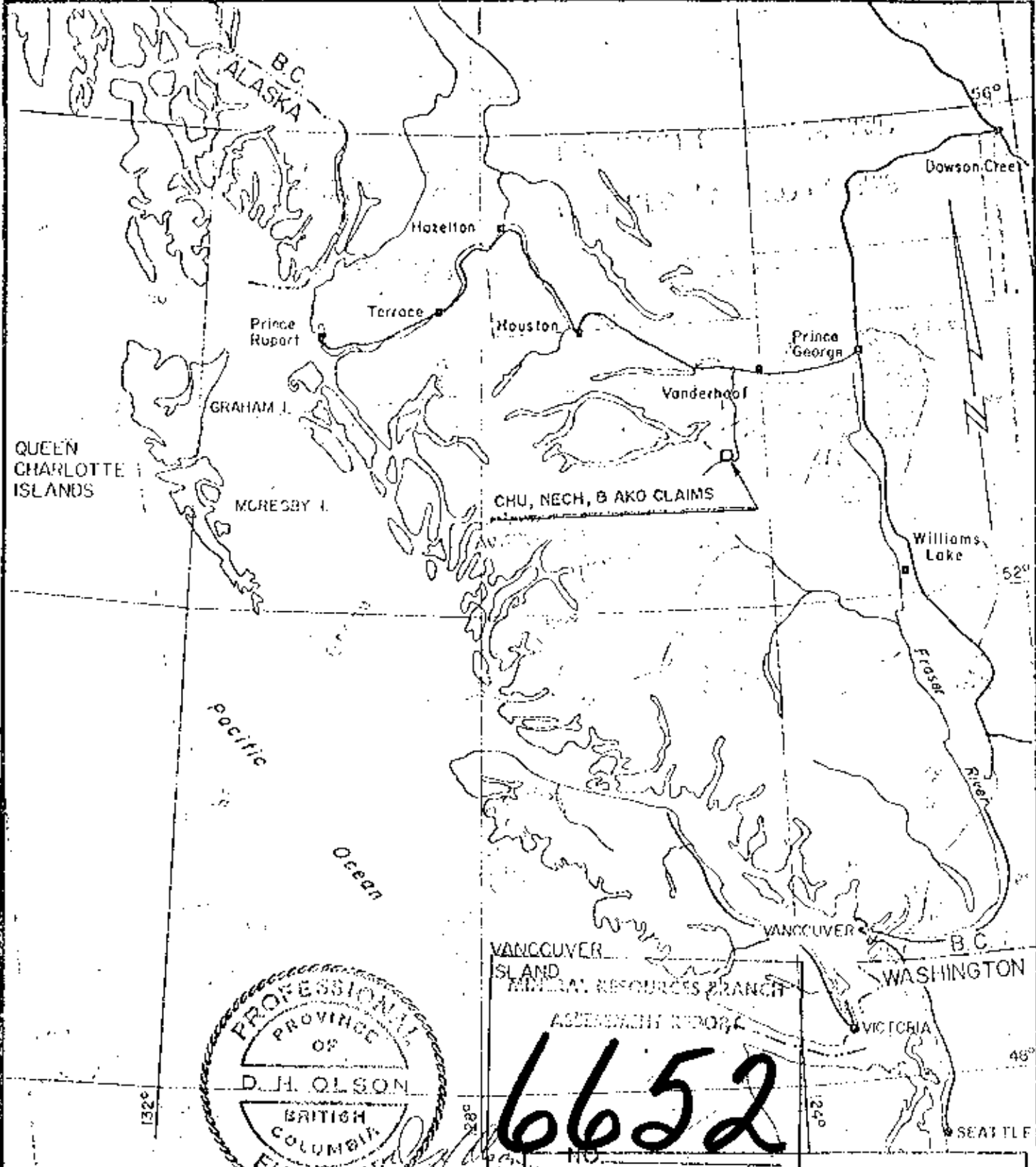


D.H. Olson, P.Eng.

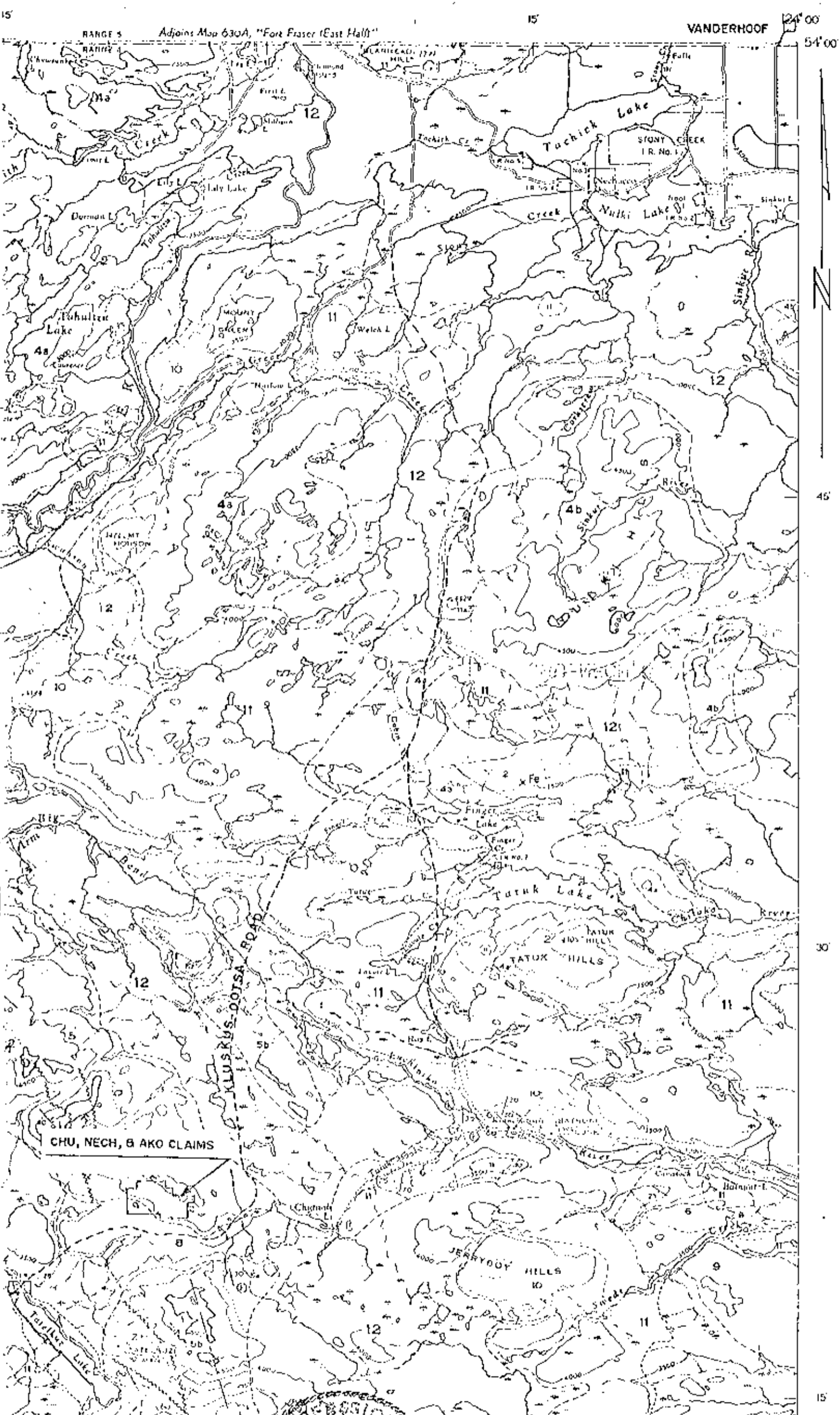
Vancouver, B.C.

February 1978

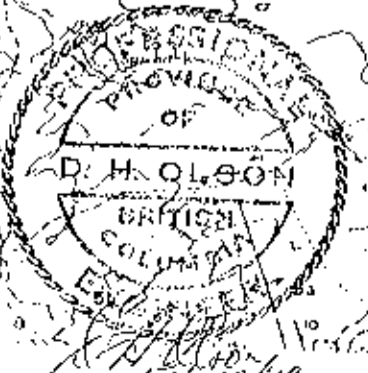




<b>ASARCO</b>		
<b>CHU, NECH, &amp; AHO CLAIMS</b>		
<b>LOCATION &amp; ACCESS MAP</b>		
<b>FIGURE 1</b>		
DATE DEC/77	DRAWN BY D. H. OLSON	NTS 93F/77



MINES BRANCH  
**6652**  
 NO.

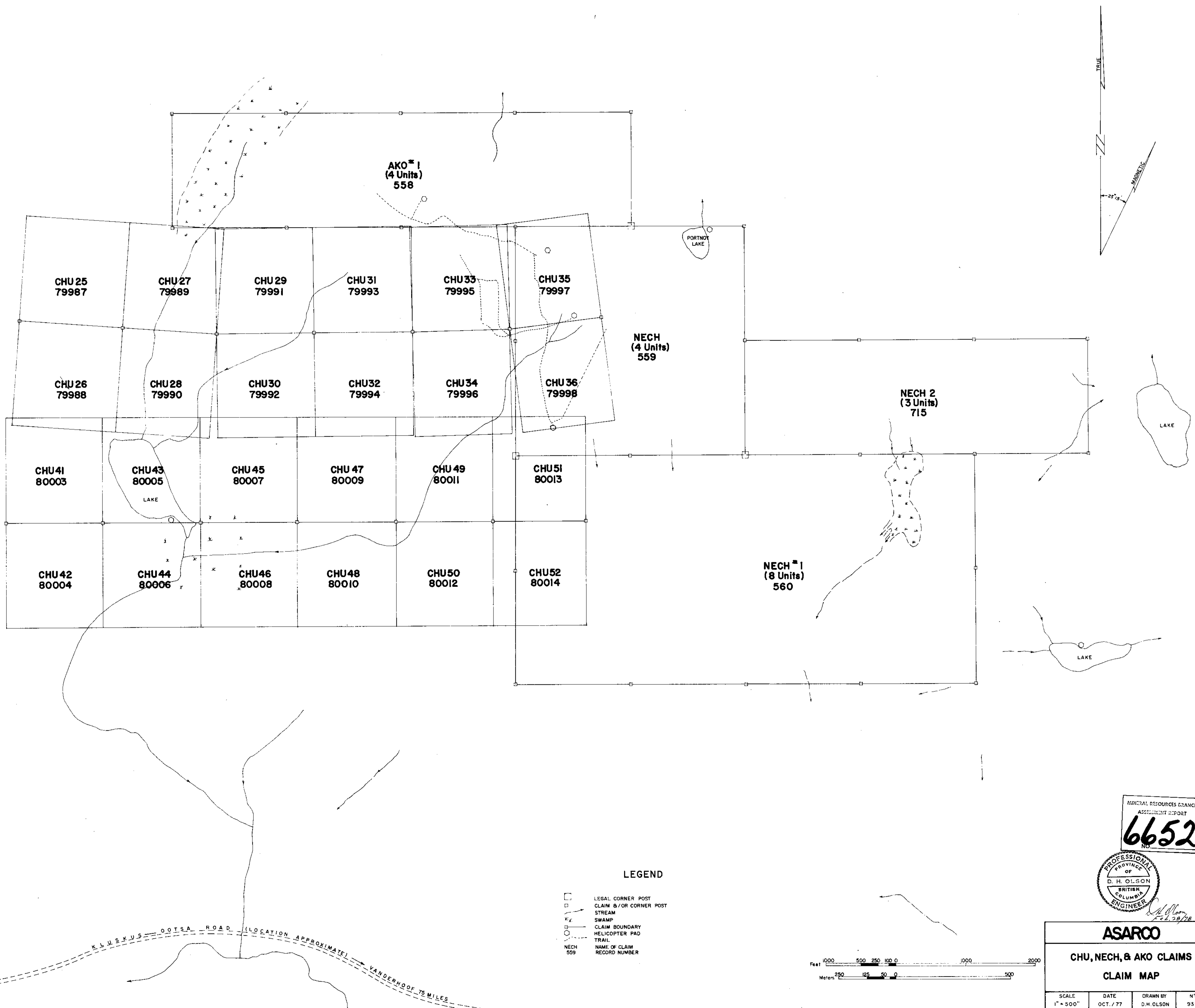


**ASARCO**

**CHU, NECH, & AKO CLAIMS**  
**LOCATION & ACCESS MAP**  
**FIGURE 2**

SCALE 1" = 4 MILES	DATE DEC/77	DRAWN BY D. H. OLSON	NTS 93F/7
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0 10 20  
 KILOMETRES



AKO<sup>1</sup>  
(4 Units)  
558

CHU 25  
79987

CHU 27  
79989

CHU 29  
79991

CHU 31  
79993

CHU 33  
79995

CHU 35  
79997

NECH  
(4 Units)  
559

CHU 26  
79988

CHU 28  
79990

CHU 30  
79992

CHU 32  
79994

CHU 34  
79996

CHU 36  
79998

NECH 2  
(3 Units)  
715

CHU 41  
80003

CHU 43  
80005  
LAKE

CHU 45  
80007

CHU 47  
80009

CHU 49  
80011

CHU 51  
80013

NECH<sup>1</sup>  
(8 Units)  
560

CHU 42  
80004

CHU 44  
80006

CHU 46  
80008

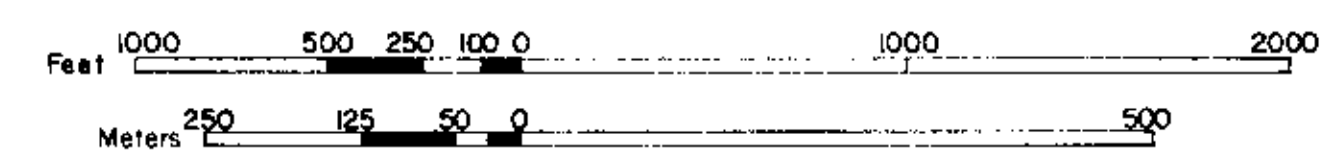
CHU 48  
80010

CHU 50  
80012

CHU 52  
80014

LEGEND

- LEGAL CORNER POST
- CLAIM B/OR CORNER POST
- ~ STREAM
- ~ SWAMP
- ~ CLAIM BOUNDARY
- HELICOPTER PAD
- ~ TRAIL
- NECH 559 NAME OF CLAIM RECORD NUMBER



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**6652**  
NO.



ASARCO

CHU, NECH, & AKO CLAIMS  
CLAIM MAP

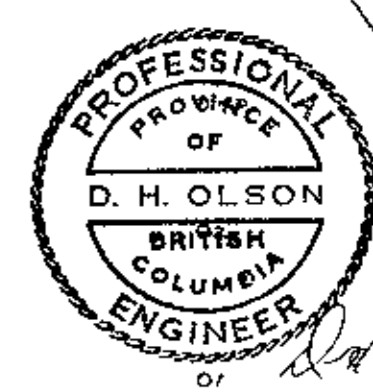
SCALE 1" = 500'	DATE OCT. / 77	DRAWN BY D.H. OLSON	NTS 95 F/7
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FIGURE 3



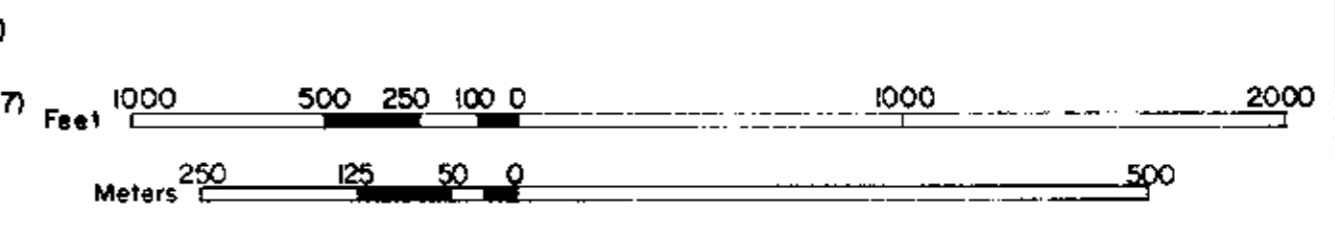


MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**6652**



**LEGEND**

- LEGAL CORNER POST
- CLAIM B/ OR CORNER POST
- STREAM
- SWAMP
- CLAIM BOUNDARY
- HELICOPTER PAD
- TRAIL
- 7 SOIL SAMPLE-ASARCO-PPM MO.(1970)
- +5 SOIL SAMPLE-RIO TINTO-PPM MO.
- 6 SILT SAMPLE-ASARCO-PPM MO.(1970)
- NONE DETECTED
- NS NO SAMPLE
- CONTOUR-PPM MO.-ANOMALOUS VALUES
- GEOLOGIC CONTACT
- HOLE NO.
- D.D.H. INCLINATION
- HOLE LENGTH
- SOIL SAMPLE-ASARCO-PPM MO.(1977)
- ▲ SILT SAMPLE-ASARCO-PPM MO.(1977)

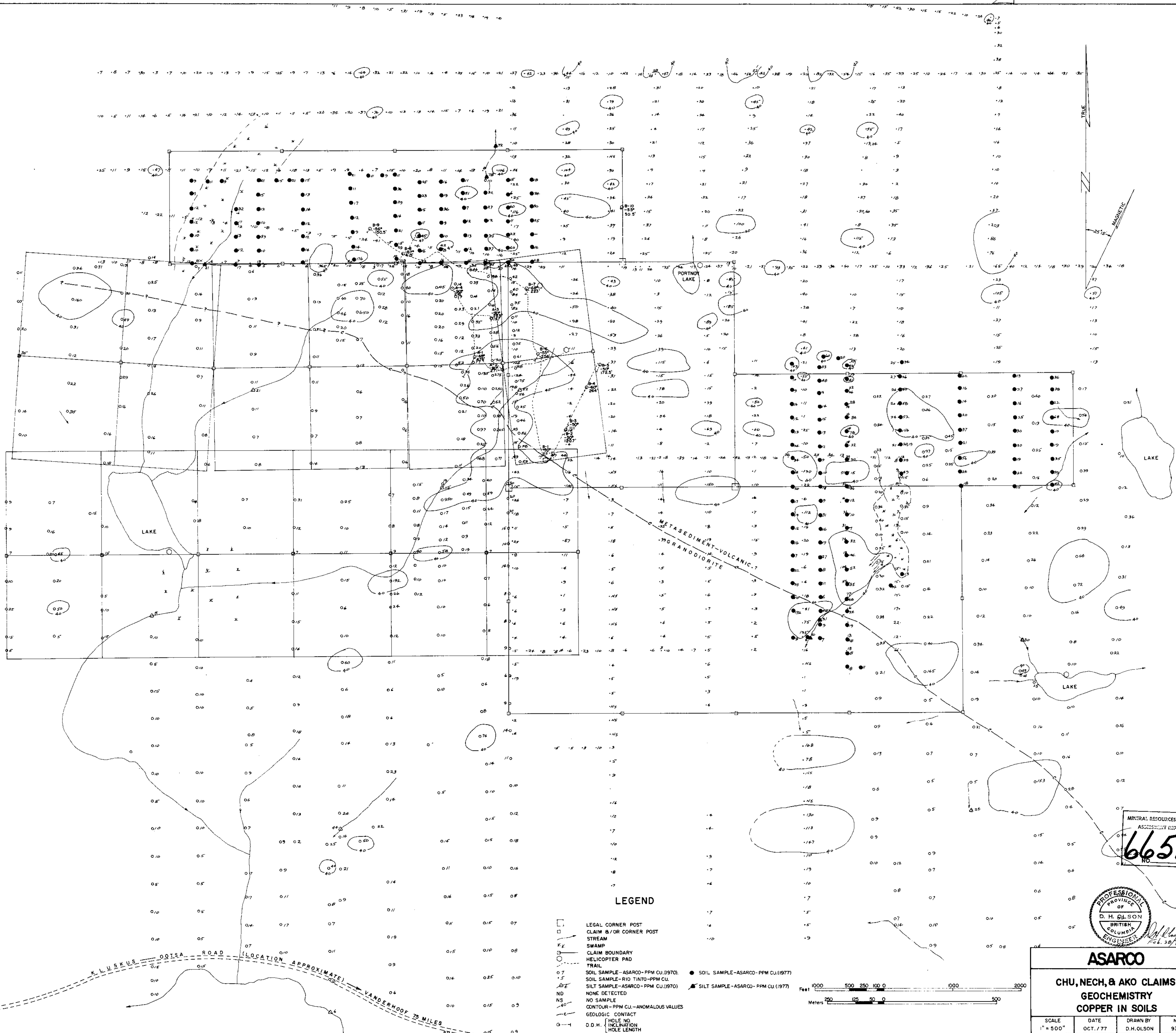


**ASARCO**

**CHU, NECH, & AKO CLAIMS  
GEOCHEMISTRY  
MOLYBDENUM IN SOILS**

SCALE 1" = 500'	DATE OCT. / 77	DRAWN BY D.H. OLSON	NTS 93F/7
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FIGURE 4



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**6652**  
NO.



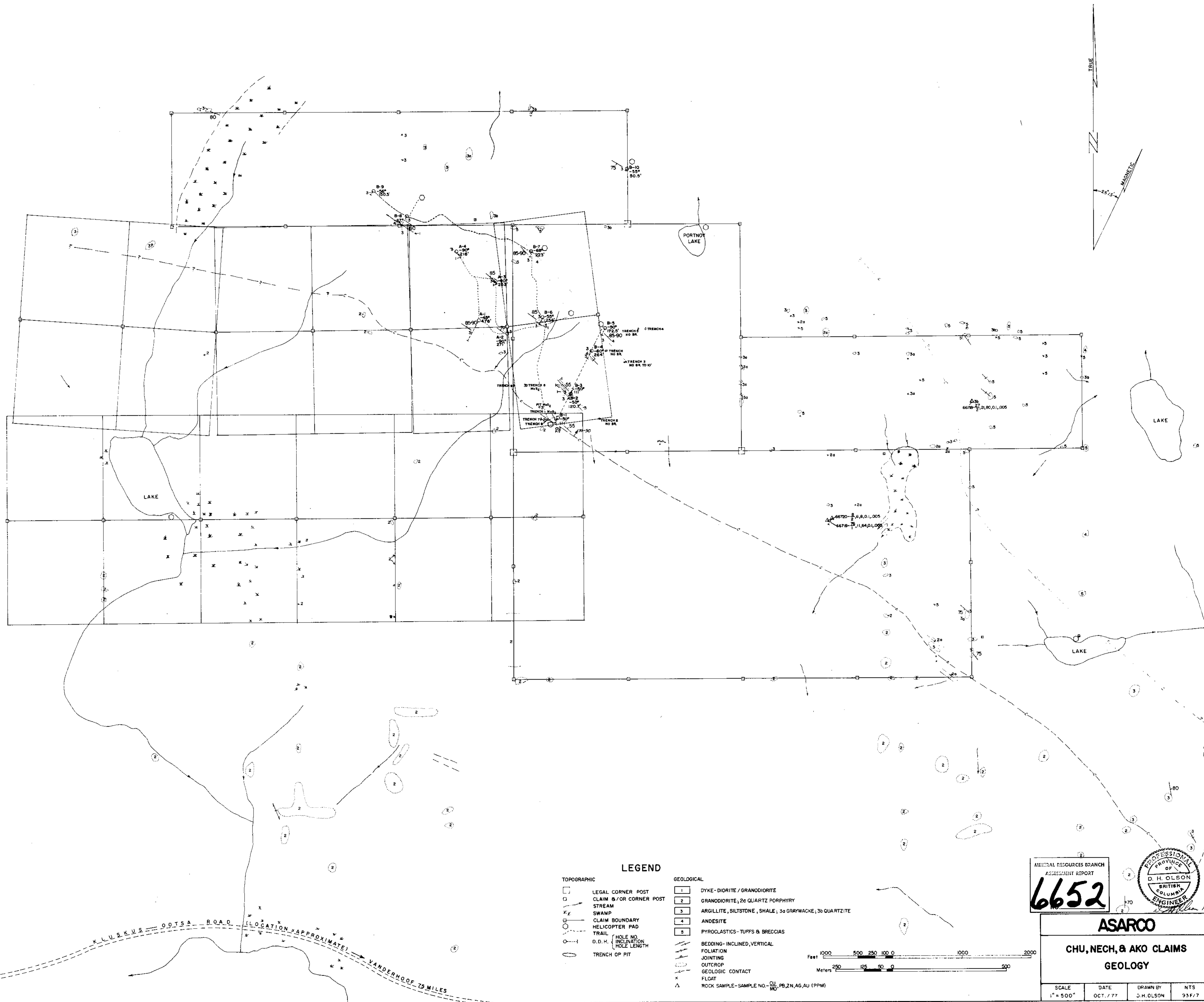
**ASARCO**

**CHU, NECH, & AKO CLAIMS  
GEOCHEMISTRY  
COPPER IN SOILS**

SCALE 1" = 500'	DATE OCT. / 77	DRAWN BY D.H. OLSON	NTS 93F/7
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FIGURE 5





MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

**6652**

**ASARCO**

**CHU, NECH, & AKO CLAIMS  
GEOLOGY**

SCALE 1" = 500'	DATE OCT. / 77	DRAWN BY D.H. OLSON	NTS 93F/7
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PROFESSIONAL ENGINEER  
D. H. OLSON  
BRITISH COLUMBIA

FIGURE 6