

660

NTS 104-I-4

GEOLOGICAL AND GEOPHYSICAL REPORT  
ON THE KRYSKO COPPER PROSPECT  
(JUNE CLAIMS 1-12, STIKINE CLAIMS 1-20)  
GNAT LAKE, B.C.

by R.D. Westervelt,  
NEWCONEX CANADIAN EXPLORATION LTD.

Claim Location: 75 miles south of Cassiar, B.C.  
(Longitude 129°47'W., Latitude 58°15'N.)  
Work Period: September 10 - October 19, 1964.

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Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 660 MAP

REPORT ON THE KRYSKO COPPER PROSPECT  
GNAT LAKE, BRITISH COLUMBIA.

1) INTRODUCTION

In September 1964, a one month working option was obtained on the Krysko Copper Prospect at Gnat Lake, B.C.

The present report outlines the field program and results obtained during the option period terminating on October 19, 1964.

2) PROPERTY AND LOCATION

The property consists of thirty unpatented claims and two fractional claims in the Liard Mining Division of Northern British Columbia as follows:

June Group - Nos. 1 to 6 (11514-11519 inclusive)  
June Group - Nos. 7 to 10 (12100-12103 inclusive)  
Stikine Group - Nos. 1 to 20 (14809-14829 inclusive)  
June Group - Fractional claims No. 11 and 12.

The claim group (58°15'N., 129°47'W.), located 75 miles due south of the asbestos operation at Cassiar, is traversed by the Cassiar-Stewart highway presently under construction. Road distance to the property from Cassiar is approximately 90 miles.

3) HISTORY

During the summer of 1960, a general prospecting program was carried out in the vicinity by Cassiar Asbestos Corporation. Several copper showings discovered near Gnat Lake were staked but the ground was allowed to come open following further prospecting and some hand trenching.

In 1963, the showings were re-staked as the June Group by Mr. Emil Krysko, a local prospector. Limited bulldozing uncovered additional copper showings and the claims were subsequently optioned to W.S. Kennedy and W.H. Gross of Toronto.

Twenty further claims were staked in 1964 and the property was submitted to Newconex by Dr. Gross. Following a brief field examination in August, the property was recommended on the basis of:

- a) widespread copper mineralization
- b) favourable geological environment
- c) extensive overburden with no previous geophysical investigation

A preliminary option agreement was subsequently arranged.

#### 4) GENERAL GEOLOGY

As shown on G.S.C. map 29-1962 (Cry Lake, B.C.), the property is located west of the Cassiar granitic batholith and within the Central British Columbia Basin.

The claims are underlain by Upper Triassic volcanics along the north flank of a large quartz-monzonite-granodiorite intrusive stock. The intrusive is believed to be related to the Cassiar batholith of Upper Jurassic or Cretaceous age.

The volcanics are andesites, basalts, and tuffs with minor altered basic intrusives and sediments. In the immediate vicinity of the claims, the general strike appears to be easterly parallel to the granodiorite contact.

#### 5) FIELD PROGRAM

During the examination period, geological and geophysical investigations were carried out over the entire claim group. All significant mineralization encountered was sampled and a D8 bulldozer with ripper was employed in stripping and trenching local areas of interest.

##### a) Geology

Geological mapping of the property was completed on a scale of 1"=200 feet. For mapping control, the grid established for the geophysical work was used.

Rock exposure in the claim group is quite limited. The western half of the property covers a broad, relatively flat, north trending valley. This area is blanketed with heavy sand and gravel deposits and outcrop is confined to the few road cuts and creeks. To the east of the valley, the topography rises fairly sharply in a series of prominent ridges. Even in this area of higher relief, overburden is extensive and outcropping is confined to the crests and western slopes of the ridges.

Mapping has indicated the claims are largely underlain by a volcanic complex consisting mainly of andesite and dacite. Rhyolite is exposed along a ridge east of the valley and several scattered outcrops of more basic rocks indicate the presence of minor basaltic flows or altered basic intrusives. The volcanics are moderately to strongly carbonatized and are generally sheared and fractured. Considerable brecciation occurs locally within the rhyolite exposures. Due to the deformation and alteration of the volcanic complex, no primary features were observed and the attitudes of the flows could not be determined.

The intensity of shearing and carbonate alteration increases toward the valley suggesting this distinctive topographic feature may represent a major broad shear zone. All exposures within the valley are extremely sheared and fractured and several coarse carbonate veins up to 2 inches in width occur. Although there is considerable variation in the shearing, the predominant direction appears to be north-westerly.

The granodiorite intrusive contact is somewhat irregular but generally strikes east-west along the southern boundary of the group. Where exposed, the intrusive is a fine to medium grained granitic rock varying in colour from light grey to pinkish. Mafic minerals (hornblende and biotite) are generally low and occasional accessory magnetite occurs as fine disseminated grains. The intrusive exposures are generally well jointed and have varying amounts of epidote developed along the joint planes.

A small associated granitic stock intrudes the volcanics north of the Creek showing.

Disseminated chalcopyrite mineralization is widespread and occurs, generally in trace amounts, in all the volcanic rocks. Only rarely are minute amounts of finely disseminated chalcopyrite observed within the intrusives. Where copper is present in any concentration, a thin surface skin of secondary malachite and azurite has developed.

Two distinctive types of mineralization are present:

- i) magnetite-chalcopyrite occurring as fracture-filling veinlets in the andesite and dacite flows. The veinlets, rarely exceeding  $\frac{1}{2}$ " in width, pinch and swell erratically along strike and are often accompanied by local chlorite alteration. Replacement of the host rocks is rare but in some cases has produced small higher grade lenses within the volcanics. The largest pod of this material found in place measured 2' x 2' x 1' and assayed 2.94% copper (trench 2). Rare flecks of molybdenite and occasionally heavy specular hematite are also associated with this type of mineralization.
  
- ii) fine disseminated chalcopyrite in the brecciated rhyolite east of the valley. The rhyolite is generally carbonatized and the brecciation varies from a fine mosaic structure to coarse fragments up to 2" cemented in a fine grained matrix. The chalcopyrite mineralization, often accompanied by weak chloritization, occurs as erratic fine disseminations within the matrix. More rarely, fine veinlets of chalcopyrite occur. No magnetite is present but occasional fine pyrite is noted locally. Available exposure indicates this type of mineralization is quite erratic.

b) Geophysics

To test for possible concentrations of the magnetite-chalcopyrite mineralization, a magnetic survey was completed on the property. For survey control, three base-lines were cut and a grid system established. In the central area, cross lines at 200'

intervals were picketed using pace and compass. The remainder of the property was covered with picketed lines at 400' intervals using chain and compass.

Magnetic readings were taken with a Sharpe MF-1 Fluxgate magnetometer at 100 foot stations along the lines. All profiles were tied into base stations at regular intervals and the corrected readings were plotted on the accompanying magnetic map at a scale of 1"=200 feet. A total of 43.3 line miles of magnetic traversing was completed.

A series of magnetic highs along the south boundary of the property defines the volcanic-intrusive contact. Magnetic relief over the granodiorite is quite high with a general background in excess of 1000 gammas. In contrast, the magnetic relief over the volcanics is relatively flat with a background value of approximately 350 gammas.

Several anomalous magnetic areas are present within the volcanic complex. These are quite irregular in shape and have intensities ranging up to 1700 gammas above background over lengths varying from 300 to 1200 feet. Although these anomalies have a general north-west distribution, no distinctive magnetic trends are apparent.

A Crone Sr. E.M. unit was used to test all magnetic anomalies and areas of known mineralization. A total of 9.5 miles of E.M. profiling was completed using a coil separation of 200 feet. Readings were plotted on the magnetic map. The Crone unit was also used as a vertical loop instrument to test the mineralization in the rhyolite breccia. No significant E.M. conductors were located. A weak but distinctive anomaly was obtained on the Creek showing (Trench No. 1).

c) Trenching and Stripping

Bulldozing was concentrated on the known showings and on the main magnetic anomalies. A total of 61 hours was accumulated on the D8 Cat and ripper in preparing 12 major trenches (cumulative length 3700 feet). An estimated 17,000 cu. yards of overburden and 1,700 cu. yards of rock were removed.

Depth of overburden varied from zero to in excess of 22 feet in five trenches which failed to reach bedrock. Sand, gravel, and coarse boulder till were encountered in the bulldozer cuts.

Where exposed, the magnetic anomalies were found to be caused by:

- i) low grade magnetite-chalcopyrite mineralization.
- ii) magnetite-chalcopyrite float similar to the lenses encountered in Trench No. 2.
- iii) basic volcanics or intrusives with weak disseminated chalcopyrite.
- iv) satellite plugs of granodiorite
- v) magnetite-bearing granodiorite rubble.

Additional trenching on showings not accompanied by magnetitic anomalies generally exposed only trace amounts of chalcopyrite. However, trench No. 3 on the rhyolite breccia exposed finely disseminated chalcopyrite mineralization grading 0.83% Cu. across 50 feet.

d) Sampling

Chip samples were taken from all outcrops and trenches containing more than trace amounts of chalcopyrite. The sample locations are shown on the accompanying geological map and assay results are summarized below.

<u>Sample No.</u>	<u>Width (Feet)</u>	<u>% Cu.</u>	<u>Oz. Au.</u>	<u>Oz. Ag.</u>	<u>Remarks</u>
/ 38277	3.4	2.02	0.005	0.18	"Main showing" proven by trenching to be float. 0.26% MoS <sub>2</sub> .
/ 38278	3.0	1.05			Chalcopyrite veinlets in rhyolite. Outcrop north of Trench No. 4.
/ 38279	21.0	0.10			"Creek showing". Traces of cpy. in andesite.
/ 38280	31.0	0.15			As above. Adjoining and east of 38279.



<u>Sample No.</u>	<u>Width (Feet)</u>	<u>% Cu.</u>	<u>Oz. Au.</u>	<u>Oz. Ag.</u>	<u>Remarks</u>
/ 38281	10.0	0.30	Trace	0.14	"Creek showing". Cpy. in fractured andesite. Sample partially follows fracture filling.
/ 38282	14.0	2.88	0.01	0.18	"Creek showing". Character sample along cpy.-magnetite fracture filling veinlet.
/ 38283	17.0	0.22			Taken at right angles to 38282. Probably represents average grade of Creek Showing.
/ K-1	45.0	0.10	Trace	Trace	Trench 2. Sparse cpy. in altered dacite.
/ K-2	50.0	0.83	Trace	Trace	Trench 3. Finely disseminated cpy. in rhyolite and rhyolite breccia.
/ K-3	50.0	0.28	Trace	Trace	As above. Adjoining and west of K-2.
/ K-4	50.0	0.19	Trace	Trace	As above. Adjoining and west of K-3.
/ K-5	Specimen	2.94	Trace	Trace	Trench 2. Heaviest magnetite-cpy. mineralization found. Lens 2'x 2'x 1'.
/ K-6	Specimen	2.48	Trace	Trace	Trench 4. Float at 7.0' depth. Cpy.-mag.-chl.
/ K-7	Specimen	1.90	Trace	Trace	Trench 4. Float at 5.0' depth. Cpy.-Spec. hem.-mag.
K-8	15.0	1.23	Nil	Trace	Trench 1. Erratic cpy.-mag. fracture fillings and dissemination in altered volcanic.

<u>Sample No.</u>	<u>Width (Feet)</u>	<u>% Cu.</u>	<u>Oz. Au.</u>	<u>Oz. Ag.</u>	<u>Remarks</u>
K-9	13.0	1.07	Nil	Trace	Trench 1. Mineralization similar to above but weaker.
K-10	15.0	0.72	Nil	Trace	Trench 7. Strongest disseminated cpy. in 25' pod of coarse grained basic volcanic or intrusive.
K-11	Specimen	0.46	Nil	Trace	Moderate disseminated cpy. in altered volcanic float downhill from K-10.

6) SUMMARY AND CONCLUSIONS

Traces of chalcopyrite are widespread within the volcanic rocks on the Krysko property. Mineralization appears to be associated with a broad shear zone along Gnat Creek and with an intrusive body to the south of the claims.

Although chalcopyrite is generally present only as weak erratic disseminations, stronger mineralization with magnetite is noted in several showings. Geophysical surveying, geological mapping, and trenching have failed to disclose any economic concentrations of the magnetic type of mineralization.

The area is largely overburden covered and the possibility of a large low-grade deposit cannot be ruled out. The geophysical methods applied have not adequately tested the ground for the non-magnetitic disseminated type of mineralization. Disseminated copper approaching interesting amounts has been encountered in an area of rhyolite breccia. Limited exposure in this immediate locality suggests the disseminated mineralization is quite erratic.

An I.P. survey of the group would be required to test for concentrations of the low-grade mineralization. Interpretation of the I.P. data would be complicated by the presence of the widespread weakly disseminated chalcopyrite and local minor amounts of magnetite and pyrite.

Respectfully submitted,

*R.D. Westervelt*

R.D. Westervelt,  
Newconex, Canadian Exploration Ltd.

Toronto, Ontario,  
December 8, 1964.



KRYSKO PROJECT

-- MAJOR EXPENSE ITEMS --

1)	Wages	-	\$ 4,226.08
2)	Bulldozer (Watson Lake Const.)	-	2,298.50
3)	Vehicle Rental (Hanna Gold Mines, Rancheria Mining)	-	398.00
4)	Assaying (X-Ray Lab, Whitehorse Assay Office)	-	108.50 23.50
5)	Groceries	-	546.00
6)	Mag and EM rental (1 month)	-	<u>300.00</u>
			<u>\$ 7,900.58</u>

KRYSKO COPPER PROSPECT

PROJECT PERSONNEL

<u>Name</u>	<u>Address</u>	<u>Period</u>	<u>Type of Work</u>	<u>Rate</u>	<u>Gross</u>
R. D. Westervelt, B.A.Sc., M.Sc., P.Eng. (Ontario)	Newconex Canadian Exploration Ltd., 1702-8 King St. E., Toronto 1, Ontario.	Sept. 19, 20 Oct. 2, 6-13 Dec. 7-8	Supervision and Report	\$25 per day x 13	\$ 325.00 156.00 (R.D.W. portion re Jan. salary)
L. M. Feasey	-	Sept. 23-25 Oct. 6-11	Survey base lines, E.M. Operator	\$16.67/day x 9	150.03
G. Scoretz	Newconex Canadian Exploration Ltd., 914-525 Seymour St., Vancouver, B.C.	Sept. 23 - Oct. 13	Geological map- ping, trenching, sampling.	\$15.83/day x 21	332.43
J. Verhaugen	Marshall, Macklin & Monaghan, 1480 Don Mills Rd., Don Mills, Ontario.	Sept. 10 - Oct. 12	Mag. Operator		470.00) 891.82)
E. Krysko	12025-79th Street, Edmonton, Alberta.	Sept. 10 - Oct. 11	Line cutting & prospecting	\$25/day x 28 Holiday pay	700.00 16.00
P. Ritco,	Newconex Canadian Exploration Ltd., 914-525 Seymour St., Vancouver, B.C.	Sept. 23 - Oct. 8	Line cutting, prospecting, assistant on EM survey.	\$15/day x 16	240.00
A. Nehass	Cassiar, B. C.	Sept. 23-25	Setting baselines	\$2 x 24 hrs. \$3 x 9 hrs.	75.00
J. James	Watson Lake, Yukon	Sept.23-Oct.8	Line cutting	\$15/day + Holiday	257.40
B.Barrett	-	Sept.23-Oct.8	Line cutting	\$15/day + Holiday	257.40
J. Dickson	-	Sept.23-Oct.13	Cook	\$15/day + Holiday	355.00
					<u>\$4,226.08</u>

I, Ralph Donaldson Westewell, certify that

- (1) I am a graduate engineer in Mining Geology from the University of Toronto (1956)
- (2) I have obtained a Master's Degree in Economic Geology from Queen's University (1960)
- (3) I am a registered professional engineer in Ontario and have been registered with the A.P.E.O. since 1956.
- (4) with the exception of one year's graduate study I have practised as a geologist in exploration and production since 1956. and have been employed by the following companies

Apr. 1956 - May 1957 M.J. Boylen Engineering, Toronto

May 1957 - Sept 1957 L.F. Labow, Toronto

March 1959 - April 1960 Northspan Uranium Mines,  
Elliot Lake.

May 1960 - Jan. 1963 Keevil Mining Group, Toronto

Feb. 1963 - Jan. 1964 Watts, Duffin & McQuat, Toronto

Feb. 1964 - April 1965 Newconex Canadian  
Explorations Ltd.  
Toronto.

Cassiar, B.C.

August 24, 1965

R.D. Westewell, P. Eng (Ont)

NEWCONEX CANADIAN EXPLORATION LTD.

EXPENSES RE: KRYSKO PROJECT

1.	Wages	\$ 4,226.08
2.	Bulldozer (Watson Lake Const.)	2,298.50
3.	Vehicle Rental (Hanna Gold Mines, Rancheria Mining)	398.00
4.	Assaying (X-Ray Lab, Whitehorse Assay Office)	108.50 23.50
5.	Groceries	546.00
6.	Mag. and E.M. rental (1 month)	<u>300.00</u>
	Total	\$ 7,900.58

Certified Correct

  
F.A. Wright  
Secretary-Treasurer.

NEWCONEX CANADIAN EXPLORATION LTD.

INVOICE

*Copy for payment  
Charge King's  
Prop.  
RAK*

X-RAY ASSAY LABORATORIES LIMITED

28 EGLINTON AVENUE WEST TORONTO, ONTARIO HUDSON 5-8907

Newconex Limited,  
8 King St. E. Suite 1701-06,  
Toronto 1, Ontario.

DATE Oct. 15-64

INVOICE N<sup>o</sup> 6978

ASSAY REPORT NO. 3636 & 3637

DATE		PRICE	AMOUNT
2	30 Element Semiquantitative Analyses	@8.00	16.00
7	% Cu	@2.50	17.50
9	Gold Assays	@2.50	22.50
9	Silver "	@2.50	22.50
			\$78.50

TERMS: NET 30 DAYS



INVOICE

X-RAY ASSAY LABORATORIES LIMITED

28 EGLINTON AVENUE WEST TORONTO, ONTARIO HUDSON 5-8907

Newconex Canadian Exploration Limited,  
8 King St. E. Suite 1702,  
Toronto 1, Ontario.

DATE Oct. 20-64

INVOICE N<sup>o</sup> 6986

ASSAY REPORT NO. 3646

DATE		PRICE	AMOUNT
4	Gold Assays	@2.50	10.00
4	Silver Assays	@2.50	10.00
4	% Cu	@2.50	10.00
<p><i>OKay for payment Charge Kriško Property</i></p>			<p><b>\$30.00</b></p>

TERMS: NET 30 DAYS

# Watson Lake Construction Limited

JER  
RDW

WATSON LAKE, YUKON

NewConex Holdings Ltd.,

Nov. 30/64

Suite 1702, Royal Bank Building

8 King St. E. Toronto 1, Ont.

DATE	DETAILS	CHGS	CREDITS	BALANCE
Oct. 6 - 12 kax	Trenching and stripping at Gnat Lake area with D8 Cat & Ripper  61 Hrs. @ \$28.00 per Hr.	\$1,738.50		
	Haulage of D8 & Ripper from Cassiar to Gnat Lakes and return to Watson Lake. 280 Miles @ \$2.00 per mile	560.00		\$2,298.50

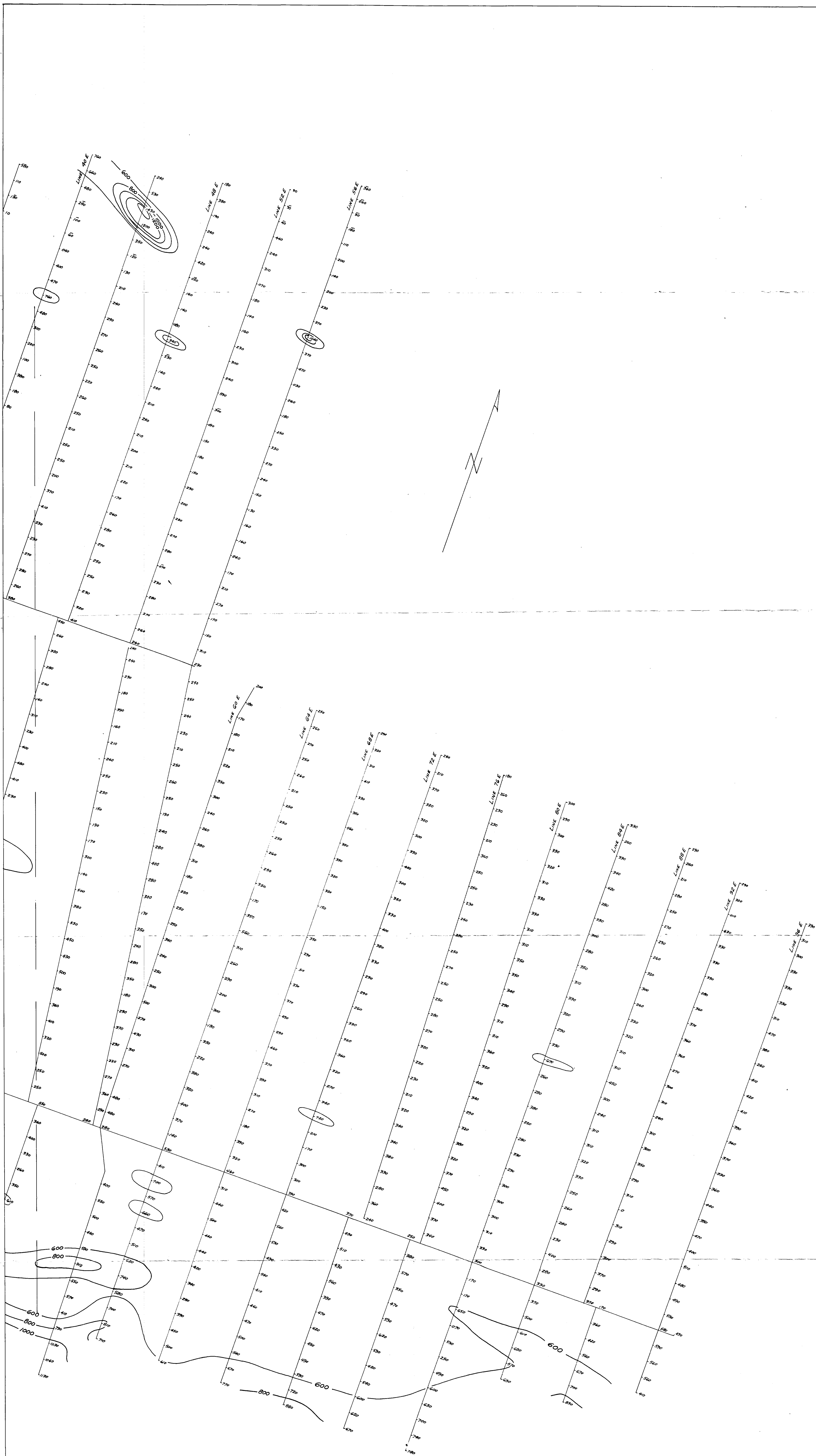
WAGES PAID RE: KRYSKO PROJECT

	<u>Period</u>	<u>Rate</u>	<u>Gross</u>
R.D. Westervelt	Sept. 19-20	\$25.00 per day	\$325.
	Oct. 2,6-13	x 13	156.(R.D.W. portion
	Dec. 7-8		re Jan. Salary)
L.M. Feasey	Sept. 23-25	\$16.67 per day	150.03
	Oct. 6-11	x 9	
G. Scoretz	Sept. 23-Oct. 13	\$15.83 per day x 21	332.43
J. Verhaegen	Sept. 10-Oct. 12		470.00) 891.82)
E. Krysko	Sept. 10-Oct. 11	\$25.00 per day	700.00
		x 28 Holiday Pay	16.00
P. Ritco	Sept. 23-Oct. 8	\$15.00 per day x 16	240.00
A. Nehass	Sept. 23-25	\$2.00 x 24 Hrs. \$3.00 x 9 Hrs.	75.00
J. James	Sept. 23-Oct. 8	\$15.00 per day + Holiday Pay	257.40
B. Barrett	Sept. 23-Oct. 8	\$15.00 per day + Holiday Pay	257.40
J. Dickson	Sept. 23-Oct. 13	\$15.00 per day + Holiday Pay	355.00
			<u>\$4,226.08</u>

NEWSOMEX CANADIAN EXPLORATION LTD.

Certified Correct

F.A. Wright, Sec/Treas.

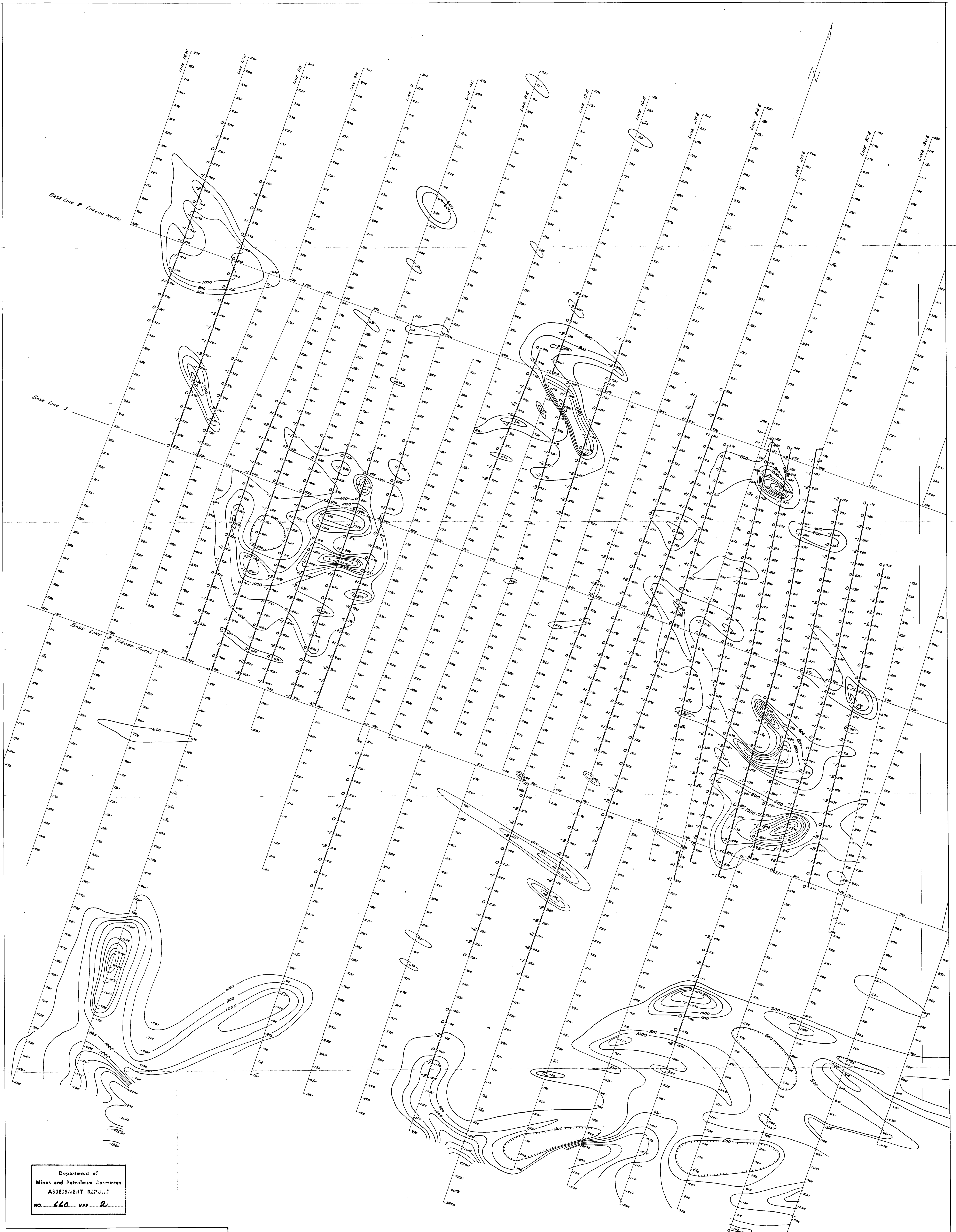


Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 660 MAP 1

NEWCONEX CANADIAN EXPLORATION LTD.  
**KRYSKO PROPERTY**  
DEASE LAKE, B.C. **660**  
MAGNETOMETER SURVEY and CRONE E.M. PROFILES  
SCALE 1" = 200' - OCT. 1964  
EAST SHEET

Note: Magnetic values shown to right of lines,  
Crone readings shown to left.

*R.D. Wattwell, P. Eng. (Cont.)*  
To accompany geological and geophysical report by  
R.D. Wattwell, P. Eng. (Cont.) on the Krysko Copper  
Prospect, Dease Lake, Zone 412, B.C. dated December 9, 1964



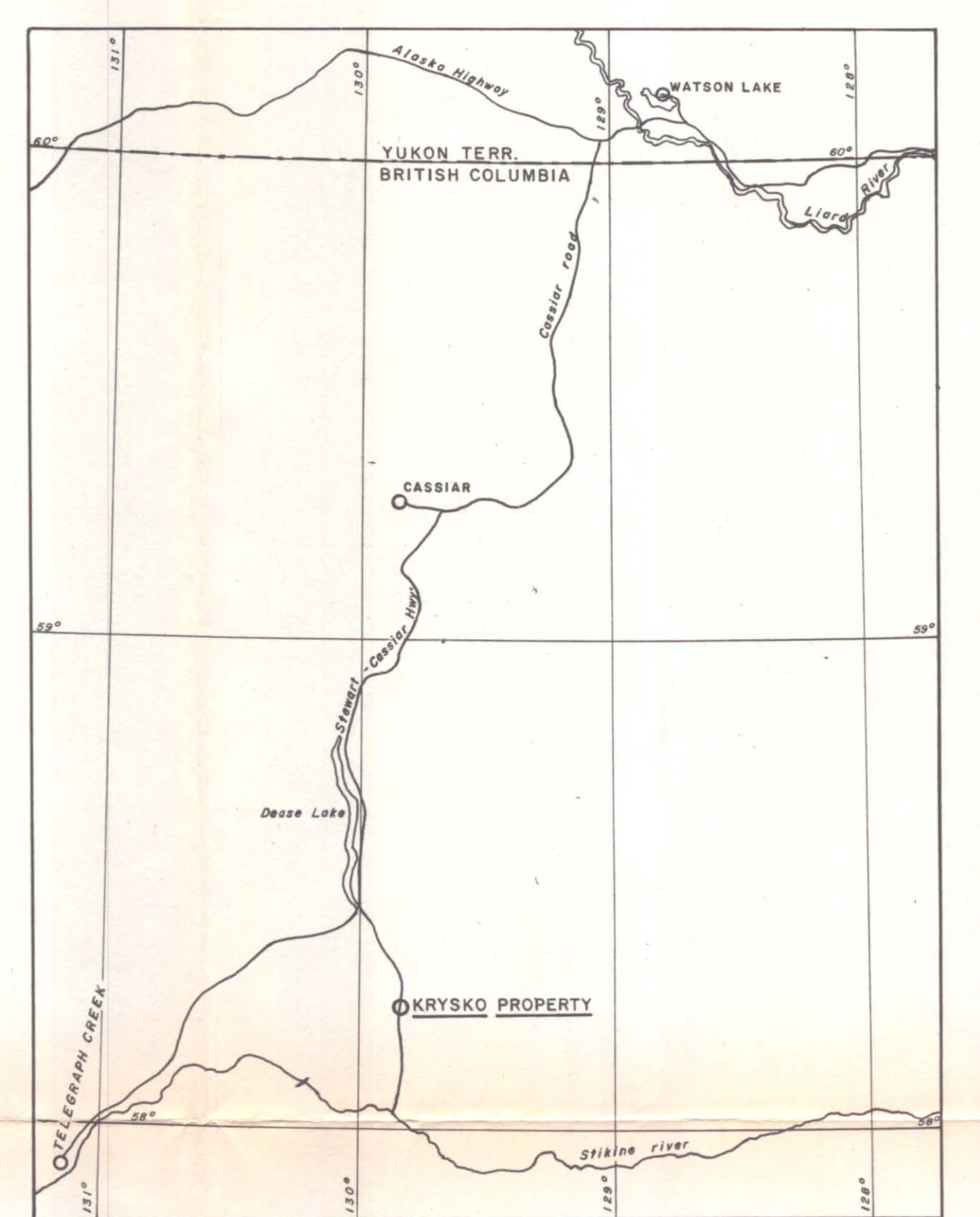
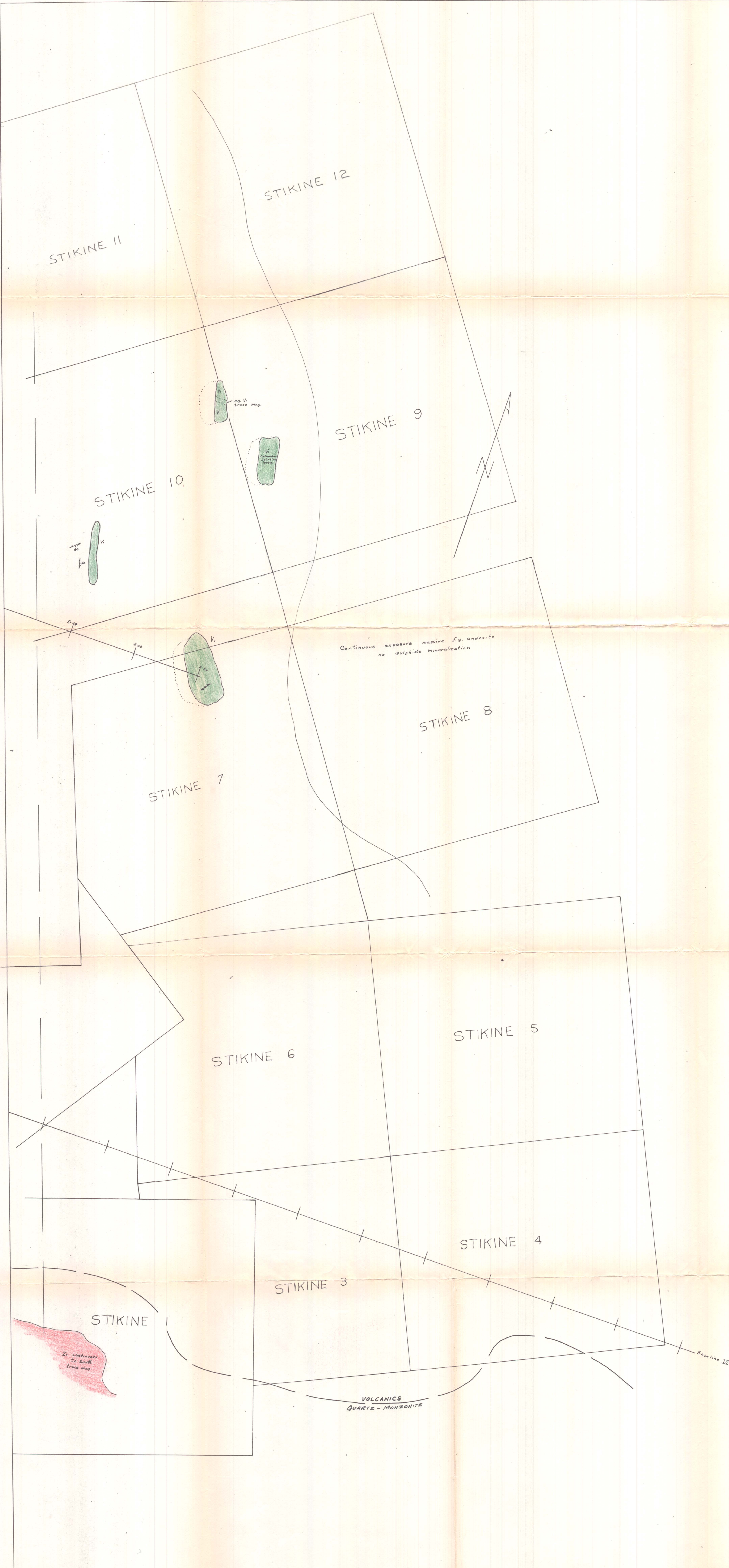
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 660 MAP 2

NEWCONEX CANADIAN EXPLORATION LTD.  
KRYSKO PROPERTY  
DEASE LAKE, B.C.  
MAGNETOMETER SURVEY and CRONE E.M. PROFILES  
SCALE 1" = 200' - OCT. 1964  
WEST SHEET

Note: Magnetic values shown to right of lines,  
Crone readings shown to left.

660

*By arrangement with the author and copyright owner  
R.D. Westwell, P. Eng. (Ret.) on the Krysko Copper Project,  
Dease Lake, B.C. dated December 15, 1964.*



INDEX MAP  
Scale - 1" = 20 Miles

LEGEND

INTRUSIVES

I1 Quartz monzonite, granodiorite-fine to coarse grained, pink to grey

VOLCANICS

V1 Andesite-dacite-fine to medium grained, medium to dark grey-green (may include some coarse basic intrusives)  
 V2 Rhyolite-fine grained, massive, generally highly carbonated  
 V3 Rhyolite breccia, rhyolite fragments up to 2" cemented by rhyolite matrix, strong carbonate alteration

SYMBOLS

Jointing  
 Fault  
 Contact  
 Claim post  
 Trench  
 Rubble

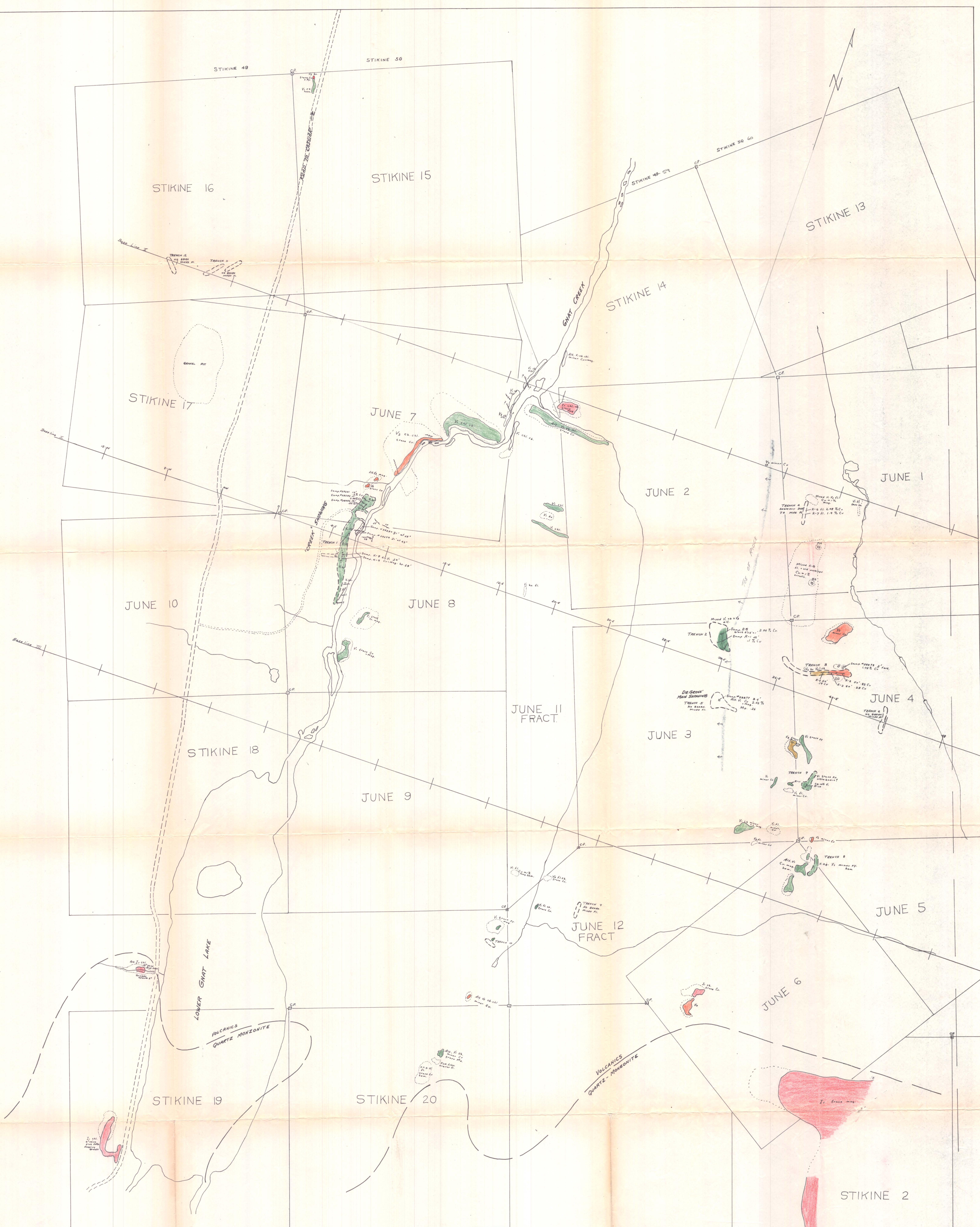
ABBREVIATIONS

Cb - Carbonate alteration  
 Chi - Chlorite alteration  
 Fl - Float  
 Bx - Breccia  
 Cu - Copper  
 Mag - Magnetite  
 Py - Pyrite  
 Hem - Hematite  
 Mo - Molybdenite

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 660 MAP 3

NEWCONEX CANADIAN EXPLORATION LTD.  
 KRYSKO PROPERTY  
 DEASE LAKE, B.C. 660  
 GEOLOGICAL MAP - EAST SHEET

SCALE 1" = 200' - OCT. 1964  
 F.D. Whitwell, P. Eng. (Cont.)  
 To accompany geological and geophysical report by  
 F.D. Whitwell, P. Eng. (Cont.) on the Krysko Property,  
 Dease Lake, British Columbia, dated December 5, 1964.



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 660 MAP 4

NEWGONEX CANADIAN EXPLORATION LTD.  
KRYSKO PROPERTY  
DEASE LAKE, B.C.  
**GEOLOGICAL MAP - WEST SHEET**  
SCALE 1" = 200' - OCT. 1964

*F.D. Whitwell, P. Eng. (Dist.)  
To accompany geological and geophysical report by  
F.D. Whitwell, P. Eng. (Dist.) on the Krysko Copper Project,  
Dease Lake, Dist. M.P., B.C. dated December 8, 1964.*

660