

1944

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

SEISMIC GEOPHYSICAL SURVEY ON THE BIN CLAIMS,  
NOS. 29 TO 48, 63, 64, 79 TO 111, 116 TO 128,  
163, AND 164; AND ON THE BIN FRACTIONAL CLAIMS  
NOS. 115, 162, 165 AND 166, SITUATED 15 MILES  
SOUTHEAST OF SPENCES BRIDGE, WITHIN THE  
KAMLOOPS MINING DIVISION  
50°20' N, 121° 02' W  
NTS: 92 I 6

BIN "A" GROUP - 38 claims and two fractional claims

<u>Claim</u>	<u>Record Nos.</u>	<u>REQUESTED Assessment Credit</u>
Bin 29-40	70408-70419	--
Bin 41-46	70420-70425	1 year each claim
Bin 47,48	70865,70866	1 year each claim
Bin 63,64	70881,70882	1 year each claim
Bin 95-100	71682-71687	2 years each claim
Bin 105-110	71692-71697	1 year each claim
Bin 127,128	71714,71715	1 year each claim
Bin 163	71914	1 year
Bin 164	71915	2 years
Bin 165Fr., 166 Fr.	71916,71917	<u>1 year each claim</u>
Total		35 years

Work was carried out on the above claims during the period May 20 to May 25, 1969.

BIN "B" GROUP - 35 claims and two fractional claims

<u>Claim</u>	<u>Record Nos.</u>	<u>Requested Assessment Credit</u>
Bin 79-94	71482-71497	--
Bin 101-104	71688-71691	--
Bin 111-114	71698-71701	--
Bin 115Fr.	71702	--
Bin 116-126	71703-71713	--
Bin 162Fr.	71913	--
Total		Nil

No seismic work was carried out on the Bin "B" Group.

REPORT BY

J. M. HAMILTON, P. ENG.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 1944A MAP

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

A REPORT ON A SEISMIC GEOPHYSICAL SURVEY  
ON A PORTION OF THE BIN GROUP OF MINERAL  
CLAIMS DURING THE PERIOD MAY 20 TO MAY 25, 1969,  
SITUATED AT THE JUNCTION OF SKUHUN AND SKUHOST CREEKS,  
15 MILES SOUTHEAST OF SPENCES BRIDGE,  
KAMLOOPS MINING DIVISION  
50°20' N, 121°02' W  
NTS: 92 I 6

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AUGUST 8, 1969

JOHN M. HAMILTON, P. ENG.

INTRODUCTION

This report details the results of a seismic geophysical survey carried out on the Bin A group of 38 mineral claims and two fractional claims between May 20 and May 25, 1969. This survey was conducted to outline the bedrock topography and overburden thicknesses in and near the valley floor.

METHOD

The survey was performed using a 12 Channel Electro-Tech Model ER-64 Oscillograph and PRA-1 amplifiers, connected to a string of 11 geophones. The maximum geophone spacing was 100 feet. The energy source used was small charges of dynamite detonated at each end of, and in the middle of the string of geophones. In addition, charges were detonated off the end of the string of geophones on all lines except S-2. Geophone elevations were determined within an accuracy of  $\pm 2$  feet with a Wallace and Teirnan aneroid altimeter. Depth to bedrock was determined wherever possible, using standard refraction interpretive techniques, by Geo-Recon Explorations. On Line S-2 a refraction was not obtained, and on this line a minimum depth to bedrock was obtained.

RESULTS

The location of the four seismic lines is shown on the Bin Property Seismic Survey Plan, Plate BIN-69-4, scale 1"=1000'. Profiles showing surface and interpreted bedrock topography are shown on the Bin Property Seismic Profiles, Plate BIN-69-5, scale 1"=200'. Both of these plates are appended to this report. A summary of the results obtained follows:-

<u>Line No.</u>	<u>Location</u>	<u>Length (feet)</u>	<u>Ovb. Velocity (f.p.s.)</u>	<u>Bedrock Velocity (f.p.s.)</u>	<u>Ovb. Thickness Range (ft.)</u>
S-1	In Skuhun Ck.	1000	7,500	14,500	175-285
S-2	Parallel Skuhun Ck.	2000	7,500	14,500	300-375 min.
S-3	Parallel Skuhost Ck.	2000	7,500	14,500	170-320
S-4	Along "Ridge"	2000	7,500	17,000	125-375


CONCLUSIONS

Four seismic profiles located near the junction of Skuhun and Skuhost Creeks located overburden thicknesses at least as great as 375 feet. The bedrock valley floor is located about 300 feet north of, and parallel to, the Skuhun Creek valley floor on surface. Bedrock topography in the Skuhun Creek valley is steeper than surface topography, as overburden thickness ranges down to 125 feet at a location about 2000 feet north of Skuhun Creek on traverse S-4.


RECOMMENDATIONS

Surface electrical geophysical surveys such as I.P. surveys, and drilling programs if any, should be designed to be able to penetrate overburden thicknesses of the order of at least 400 feet in the immediate Skuhun Creek-Skuhost Creek area if they are to be effective.

Report By

  
John M. Hamilton, P. Eng.,  
Geophysicist, Cominco Ltd.

Endorsed By

  
W. T. Irvine, P. Eng.,  
Manager, Cominco Ltd.,  
Exploration.

JMH:mk

Enclosures

Plate BIN 69-4, Seismic Survey Plan  
Plate BIN 69-5, Seismic Profiles  
Statutory Declaration of Expenditures  
Exhibit "A" to Statutory Declaration of Expenditures.

Distribution:

Mining Recorder 2  
Western District Expl'n. 1

DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

To Wit:

In the Matter of

STATUTORY DECLARATION RELATING TO EXPENDITURES ON A GEOPHYSICAL SURVEY OF THE BIN GROUP KAMLOOPS MINING DIVISION.

I, JOHN MURRAY HAMILTON, Professional Engineer

of the City of North Vancouver

in the Province of British Columbia, do solemnly declare that

1. Copies of a report regarding a geophysical survey on certain mineral claims situated in the Kamloops Mining Division are being filed with the Mining Recorder in Vancouver.
2. Attached hereto and marked with the letter "A" upon which I have signed my name at the time of declaring hereof, is a statement of expenditures incurred in connection with the geophysical survey of the said claims showing in addition the dates during which those making the said survey performed their work.

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City  
of Vancouver, in the  
Province of British Columbia, this 11<sup>th</sup>  
day of August 1969, A.D.

A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia.

In the Matter of

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**Statutory Declaration**  
(CANADA EVIDENCE ACT)



"E X H I B I T A"

C O M I N C O L T D.

EXPLORATION

WESTERN DISTRICT

SEISMIC GEOPHYSICAL SURVEY EXPENDITURES  
MIN GROUP SOUTHEAST OF SPENCES BRIDGE,  
KAMLOOPS MINING DIVISION  
92 I 6E

SALARIES

Chief Geophysicist, Geo-Recon Explorations Boyd O. Bush, P.Eng., 6½ hrs. at \$20 per hr. Office work, May 27, 1969	\$ 130.00
Geophysicist, Geo-Recon Explorations Robert L. Belhouse, 76 hrs. at \$12.50/hr. Field Work: May 20 to 25 incl. @ 10 hrs/day Office work May 27 and 28 @ 8 hrs/day	950.00
Junior Geophysicist, Geo-Recon Explorations David Cook, 62 hrs at \$10/hr Field work: May 20-25	620.00
Field Assistants, Geo-Recon Explorations P. Saunders and G. Burnikell, total 111 hrs. at \$6.50/hr. Field work: May 21-25 incl.	721.50
Drafting, Geo-Recon Explorations 9 hrs at \$8/hr., May 27 and 28	72.00
Geophysicist, Cominco Ltd. J.M. Hamilton, P.Eng., 3 days @ \$50/day Field work: May 21 Office Work: June 9, August 8	150.00
Project Geologist, Cominco Ltd., R.J. Nicholson, P.Eng., 2 days @ \$50/day Office Work: May 12, August 7	100.00
Drafting, Cominco Ltd. Gary Toop, 1 day @ \$40 Office Work: August 6	<u>40.00</u>
<b>TOTAL SALARIES:</b>	<b>\$ 2,782.50</b>

EQUIPMENT (Geo-Recon Explorations)

12-Channel Seismograph 4 days @ \$70/day of use	280.00
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EXPENSES (Geo-Recon Explorations)

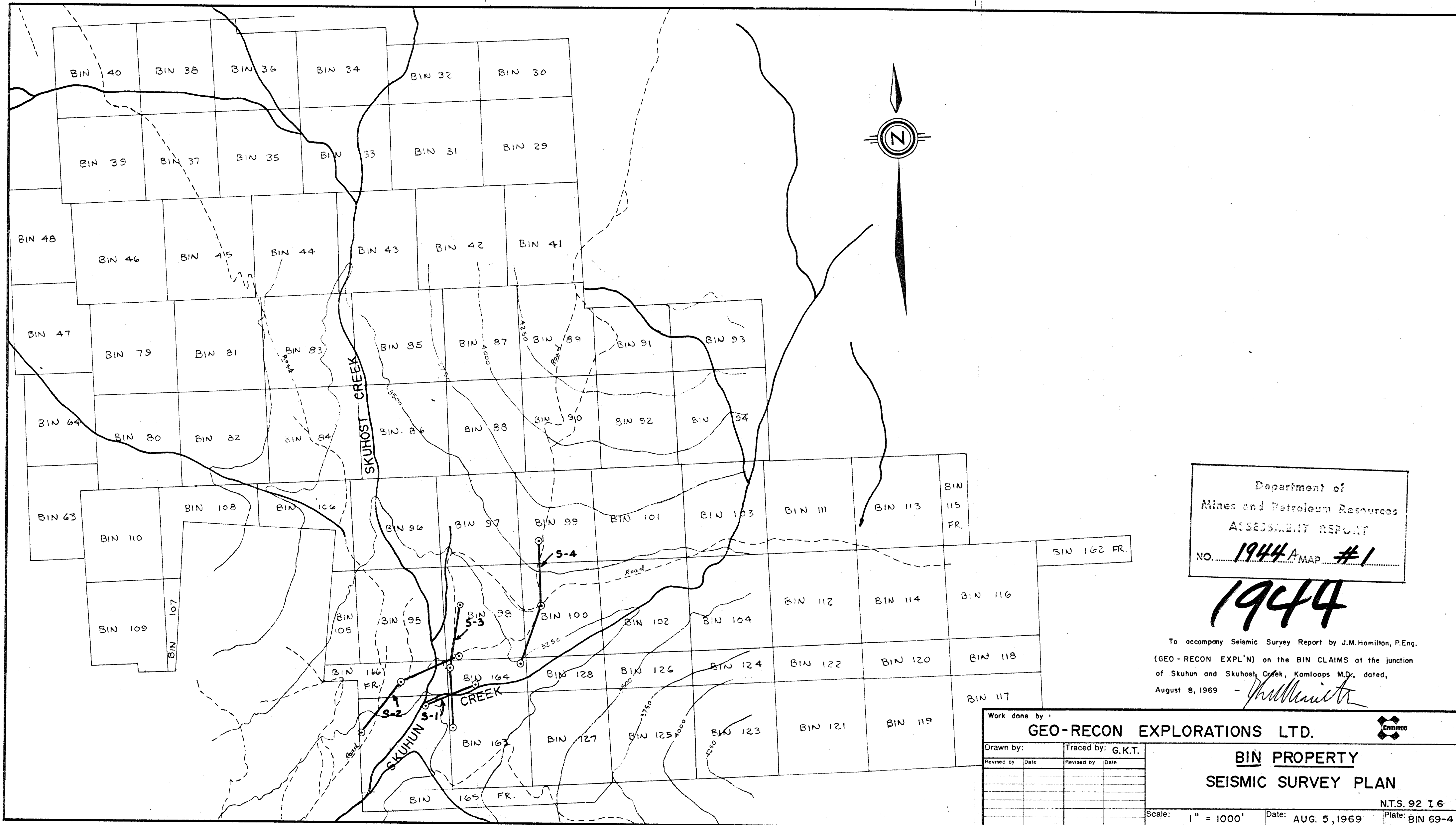
Reproductions	1.41
Meals and Lodging (4 men for 6 days)	284.00
Truck Rental	110.82
Gasoline for Truck	13.81
Explosives	64.26
Telephone Calls	<u>2.20</u>
<b>TOTAL EXPENSES</b>	<b>\$ 476.50</b>

**TOTAL** \$ 3,540.00

Signed

  
John M. Hamilton, P. Eng.

This is Exhibit "A" to the Statutory Declaration of  
John M. Hamilton declared before me this .....  
day of August, 1969.

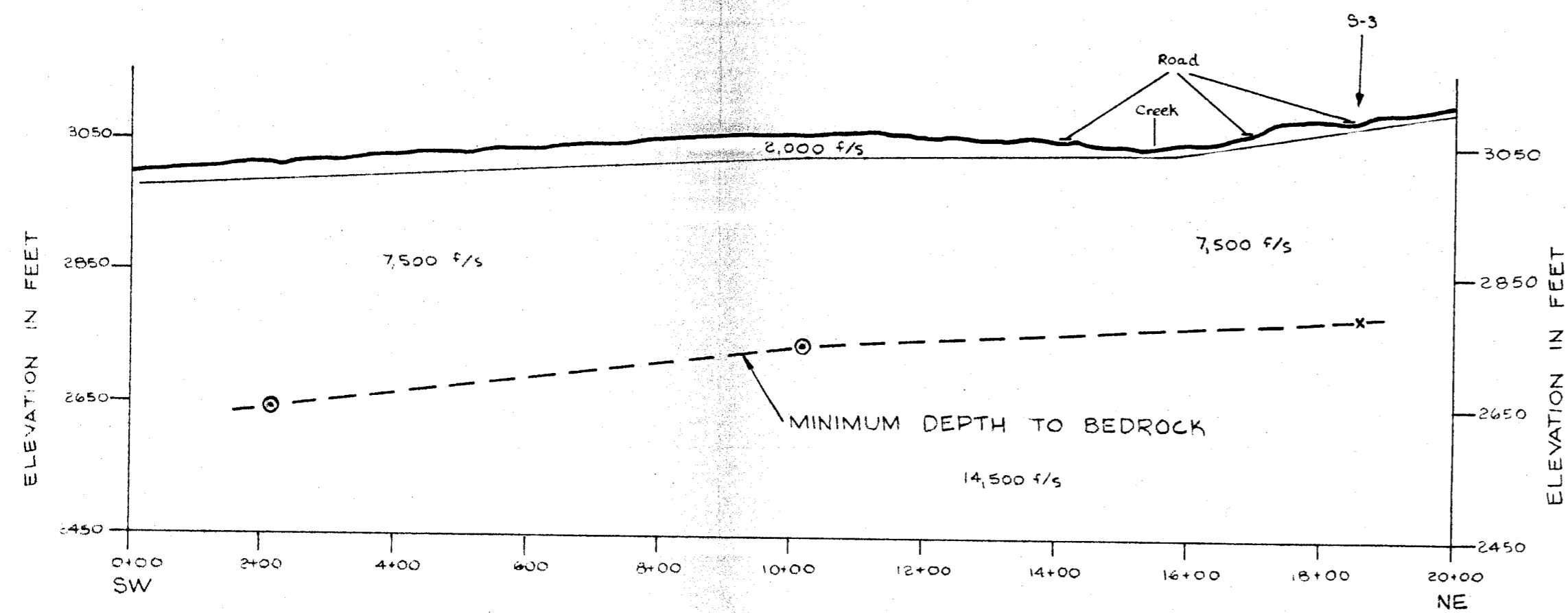


Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **1944** MAP #1

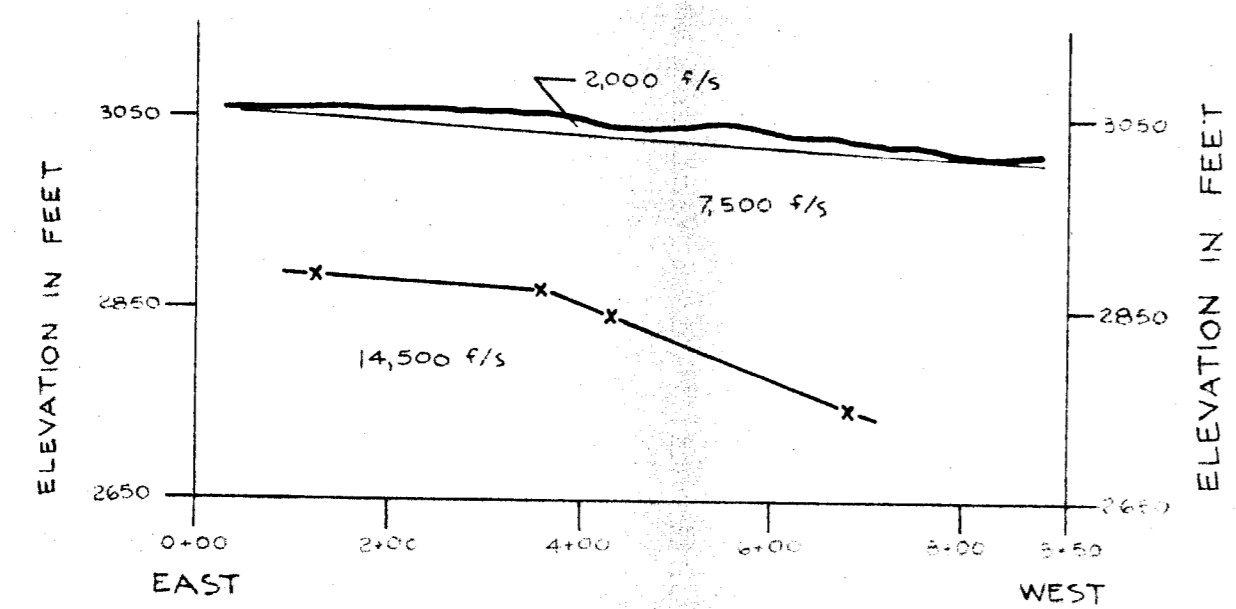
**1944**

To accompany Seismic Survey Report by J.M. Hamilton, P.Eng.  
(GEO-RECON EXPL'N) on the BIN CLAIMS at the junction  
of Skuhun and Skuhost Creek, Kamloops M.D., dated,  
August 8, 1969 - *J.M. Hamilton*

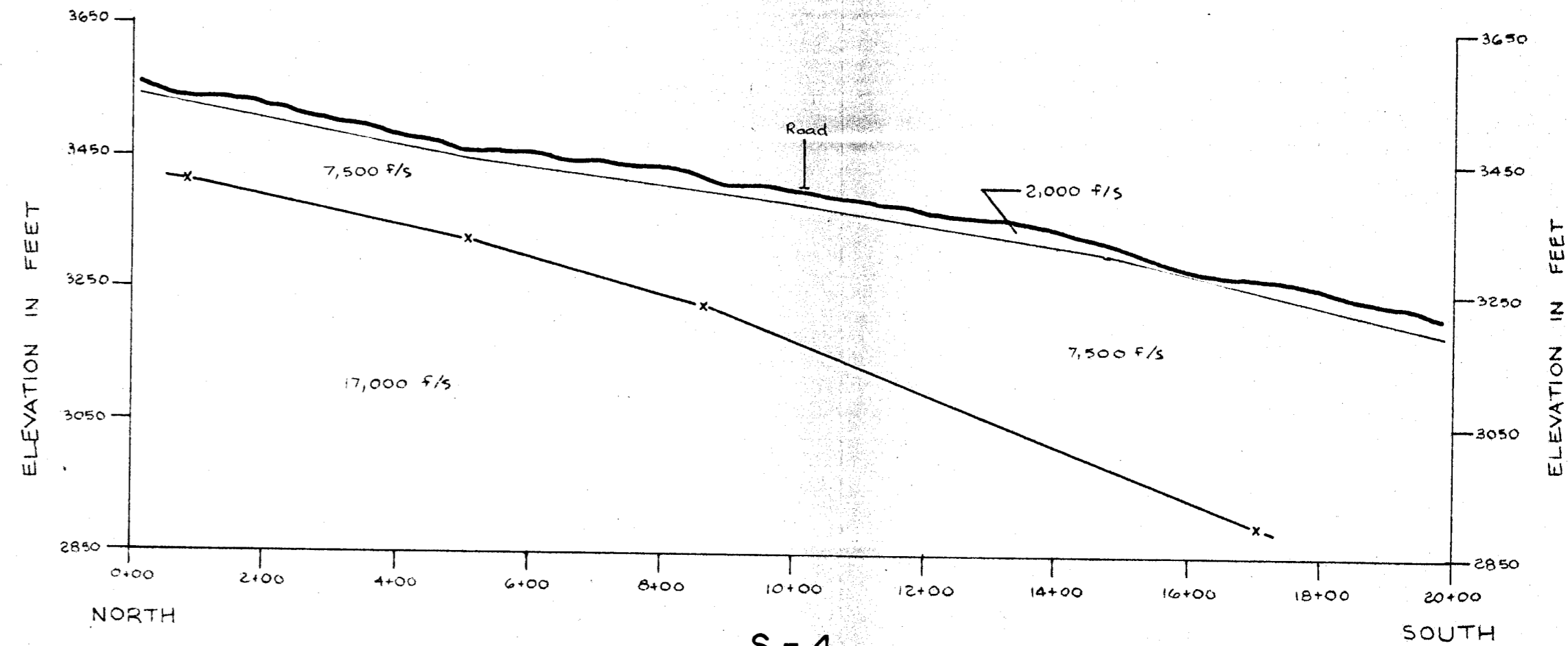
Work done by:				GEO-RECON EXPLORATIONS LTD.					
Drawn by:		Traced by: G.K.T.						<b>BIN PROPERTY SEISMIC SURVEY PLAN</b>	
Revised by	Date	Revised by	Date						
									N.T.S. 92 I 6
Scale: 1" = 1000'		Date: AUG. 5, 1969						Plate: BIN 69-4	



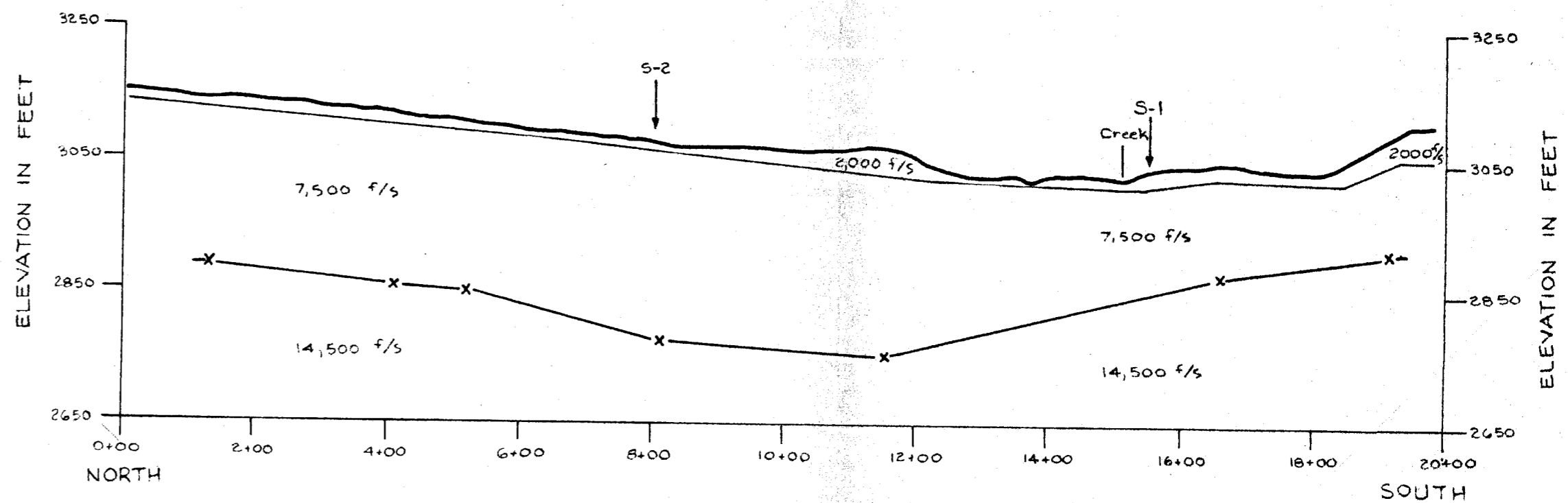
S-2



S-1



S-4



S-3

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 1944A MAP #2

To accompany Seismic Survey Report by J.M. Hamilton, P. Eng.  
(GEO-RECON EXPL'N on the Bin CLAIMS at the junction  
of Skuhun and Skuhost Creeks, Kamloops M.D., dated  
August 8, 1969 - *J.M. Hamilton*)

**1944A**

Work done by:		GEO-RECON EXPLORATIONS LTD.	
Drawn by:	Traced by: G.K.T.	<b>BIN PROPERTY SEISMIC PROFILES</b>	
Revised by: Date	Revised by: Date		
Scale: 1" = 200'		Date: AUG. 4, 1969	N.T.S. 92 I 6 Plate: BIN 69-5