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HORN SILVER & UTICA CLAIMS  
ASSESSMENT REPORT

FILMED

Osoyoos Mining Division  
British Columbia  
NTS 82E/4E  
Latitude 49°03'N 37"  
Longitude 119°41'W 40'13"

CLAIMS OWNER:

Dankoe Mines Ltd.  
7 Ridgewood Road  
Toronto, Ontario M5P 1T4

CONSULTANTS:

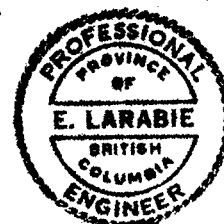
Operator: Laroth Engineering Ltd.  
405 - 595 Howe Street  
Vancouver, B.C. V6C 2T5

DATED:

December 5, 1987

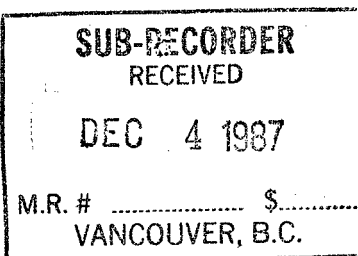
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GEOLOGICAL BRANCH  
ASSESSMENT REPORT



## TABLE OF CONTENTS

	Page
SUMMARY	
1.0 INTRODUCTION	1
1.1 Location and Access	1
1.2 Topography and Climate	1
1.3 Property Description	4
1.4 Mining History	7
2.0 GEOLOGY	8
2.1 Regional Geology	8
2.2 Property Geology	12
3.0 SURVEY PROCEDURE	12
3.1 Grid Emplacement	12
3.2 Geological Mapping	13
3.3 Geophysical Surveys	13
4.0 MINERALIZATION AND STRUCTURE	13
5.0 COST STATEMENT	15
6.0 CONCLUSIONS	16
7.0 BIBLIOGRAPHY	18
8.0 CERTIFICATE OF QUALIFICATIONS	19



## FIGURES

Maps		Page
Figure 1	Location Map	2
Figure 2	Topography Map	3
Figure 3	Claim Map	5
Figure 3a	Claim Map (Showing Grid Area)	6
Figure 4	Mining Areas	9
Figure 5	Regional Geology	11
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Figure 6	Property Geology	
Figure 7	VLF-EM Profile Map	
Figure 8	Magnetometer Map	
Appendix	Field Notes, Calculations Re VLF-EM Survey	

## SUMMARY

Dankoe Mines Ltd. owns the Horn Silver crown grant claims that are situated within the Utica claim block located near Keremeos, British Columbia. The mine up to its closure in August, 1981 had mined 469,171 tons producing 3,856,870 ozs of silver with minor gold, zinc and lead.

A minor amount of mining (1,000 tons) was done in 1983.

A total of 35.5 km of grid lines were established including 2.4 km of cut baseline. (1.5 km of lines disregarded due to faulty compass)

A magnetometer and EM-VLF Survey was conducted over 32.5 km of lines with readings taken at 25m stations. The rugged terrain necessitated that on numerous occasions, for safety reasons, two men worked together, in some circumstances ropes were used.

The program must be considered reconnaissance exploration as it forms a small part of a major exploration program recommended by W.A. Gewargis, B.Sc., F.G.A.C. in 1986. One of the objects was to determine the effectiveness of the geophysical instruments in these rock formations and ore deposits.

Previous surface work on the claim group consisted mainly of prospecting and some geological mapping performed in 1977. The 1987 program confirmed some of the geology and related the 1977 and 1987 geology to the grid. Slope correction was made on the grid, however, geological contacts may in some cases be slightly inconsistent with suggested geophysical contacts due to slope correction errors and/or geological assumptions. The 1987 was hampered in part by 4-6 cm of snow on the ground at higher elevations and north slopes. Some lines were shortened due to it being impossible, impractical or to proceed further, due to the nature of the terrain.



## 1.0 INTRODUCTION

The writer, E.N. Larabie, P.Eng. of Laroth Engineering Ltd., was engaged by Dankoe Mines Ltd., to conduct an exploration program that would comply with the Mineral Act Regulations pertaining to the assessment work requirements on the claim block. The writer is familiar with the property as he acted as mine manager during 1980 and 1981.

This report describes the results from the program as well as the physical aspects of the claim block.

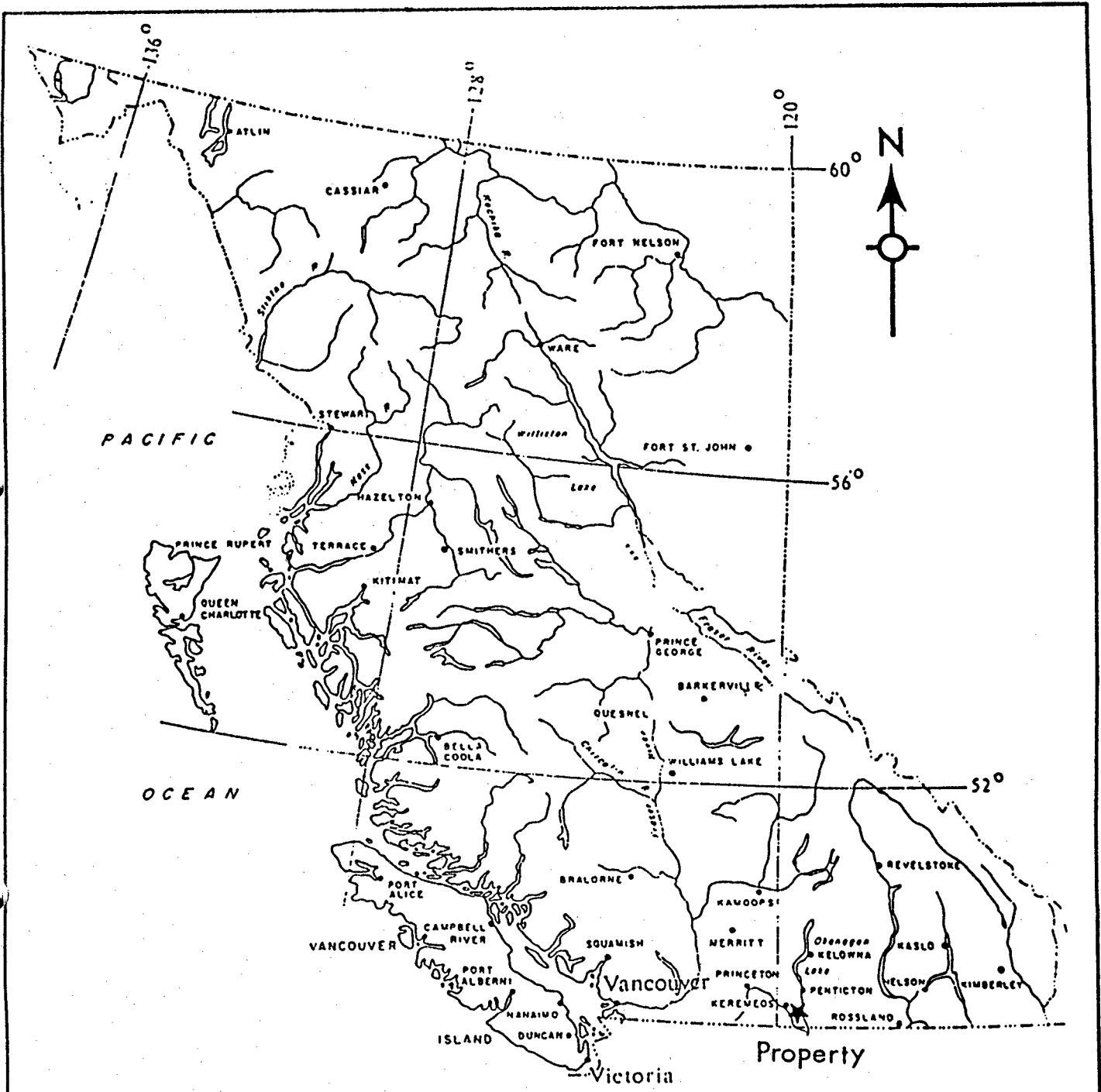
### 1.1 Location and Access (Figure 1)

The Utica claim is located in the Similkameen Valley, 26 kilometers southeast of Keremeos, and 35 kilometers northwest of Osoyoos, British Columbia. The Mill and other infrastructure is located 300 meters east of Highway No. 3 and is connected by a 0.6 kilometer gravel road and a 3.5 kilometer road to the upper mine workings. The claims are situated within the National Topographic System area 82E/4E at  $49^{\circ} 03'$  North Latitude and  $119^{\circ} 41'$  West Longitude.

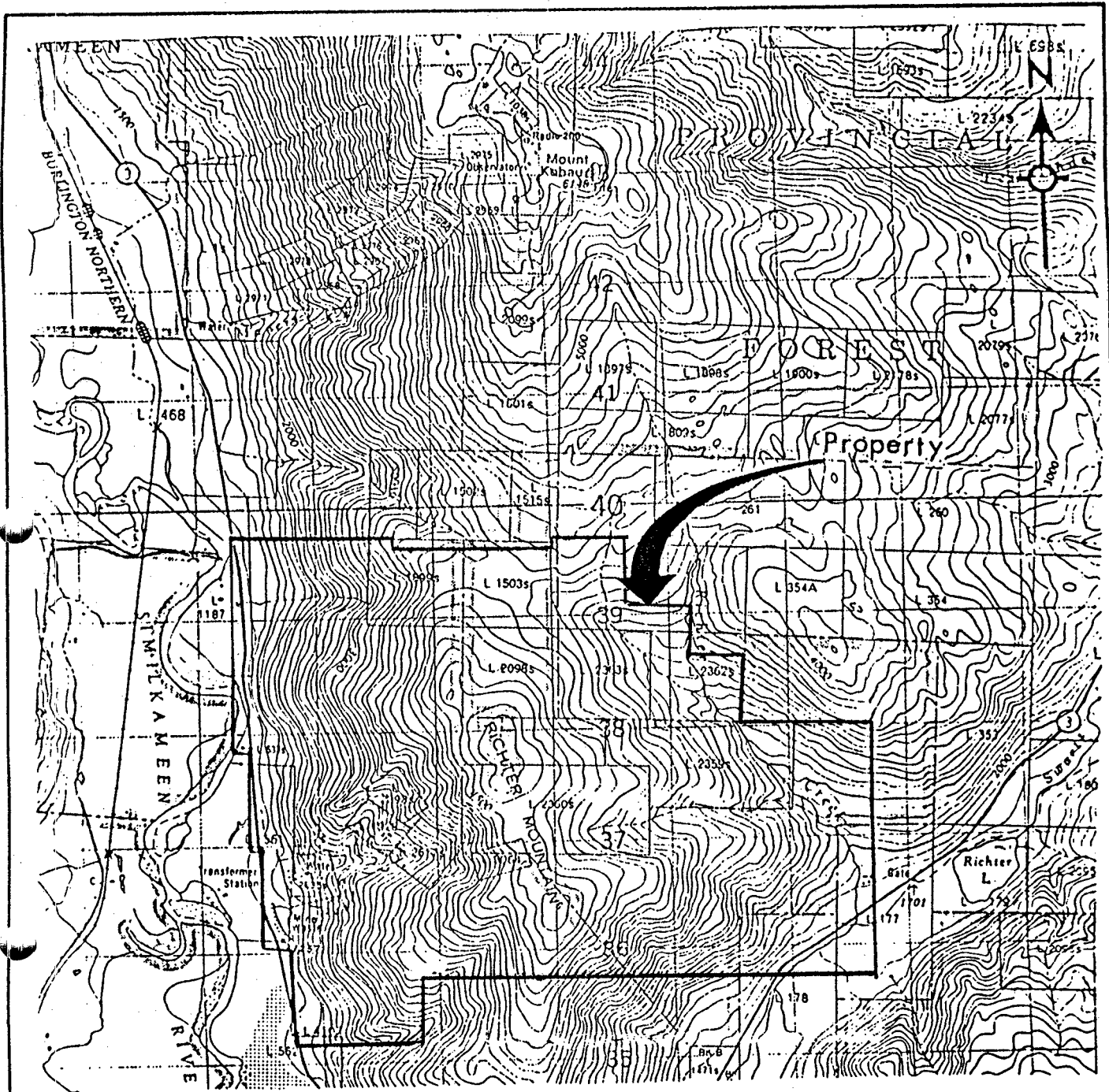
At the present time, there are no roads connecting the Mine to a portion of the exploration target area due to the steep rugged terrain, therefore, future exploration work in certain parts of the property may require helicopter assistance. The upper section west and north of line 10+00 may be reached by gravel road with permission from the owner of the Elking Ranch who has surface rights on about 40% of the 1987 exploration area, as well as surrounding property.

### 1.2 Topography and Climate (Figure 2)

The property is located on a steep mountainside with the Similkameen valley to the west and the Richter mountain range



<b>DANKOE MINES LTD.</b>	
HORN SILVER & UTICA PROPERTY KEREMEOS, B.C. N.T.S. 82E/4E OSOYOOS MINING DIVISION LOCATION MAP	
SCALE: 1:7,500,000	FIG: 1
DRAWN BY: D.G.	DATE: Dec. 5, 87



<b>DANKOE MINES LTD.</b>	
HORN SILVER & UTICA PROPERTY KEREMEOS, B.C. N.T.S. 82E/4E OSOYOOS MINING DIVISION TOPOGRAPHY MAP	
SCALE: 1:50,000	FIG: 2
DRAWN BY: D.O.	DATE: Dec. 5, 87

to the east at an elevation ranging between 609 to 1372 meters. The north-east and southern portions of the property are in a steep rugged terrain.

Below the 1000 meter elevation level vegetation is sparse, consisting mainly of grass and sage brush, with fir and pine being the principal trees above this level. The climate of the area is typical of southeastern British Columbia where the average precipitation is 20 to 25 centimeters of rain, with light snowfall. Freezing conditions do occur during part of December, January and February.

1.3 Property Description (Figure 3 and 3a)

The Horn Silver property is located in the Osoyoos Mining District, British Columbia, NTS 82E/4E, and it encompasses a past-producing silver mine. The property consists of 95 re-grouped mineral claims (2 post claims) and 3 Crown-granted claims for a total of approximately 1000 hectares (2471.2 acres). The geographic coordinates of the property are 49° 03' North Latitude and 119° 41' West Longitude.

The property consists of the following claims:

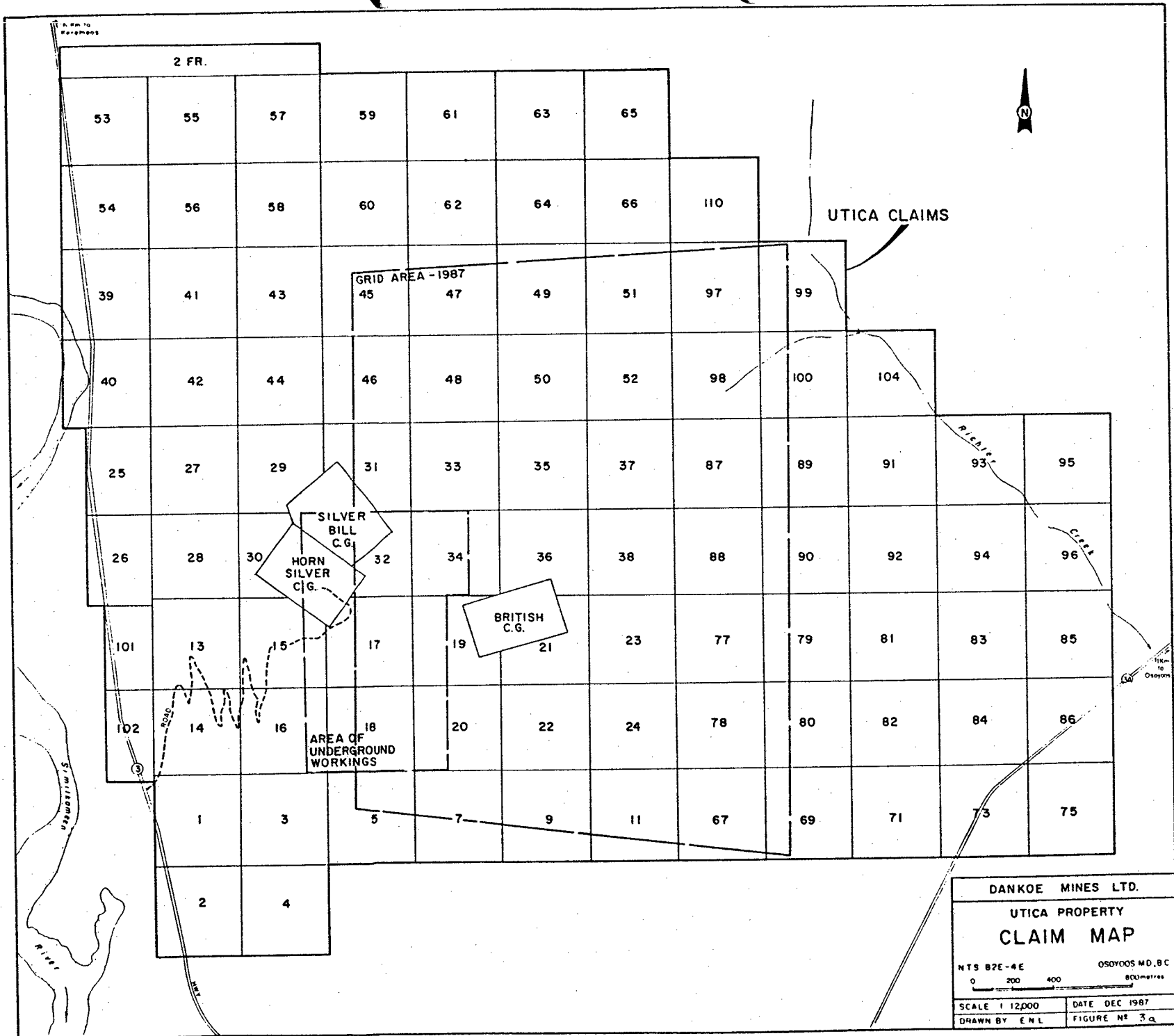
CROWN GRANTS:

Horn Silver	Lot 1928
Silver Bell	Lot 23935
British	Lot 30645

Claim Group

<u>Name</u>		<u>Expiry Date</u>
Utica	1 to 6, 9, 11, 13 to 46, 48, 50 52 to 60 incl. 101, 102	Dec 6, 1987
Utica	No. 2 Fraction	Dec 6, 1987
Utica	47, 49, 51, 61 to 67, 69, 71, 73 75, 77 to 100, 104, 110	Dec 19, 1987





ENL

The writer examined these claims in the field and checked at the Mine Recording Office in Vancouver and found all expiry dates to be Dec. 1987. All the claims are registered under Dankoe Mines Ltd.

#### 1.4 Mining History

##### (A) Horn Silver Mine:

The first activity on the property was in 1901 when J. Hunter staked the discovery claim. In 1909, these claims were Crown-granted and the property was under development every year from 1914 to 1922. Between 1918-1920 the property was managed by the Condit Bros., of Similkameen and continued active operation with several hundred tons of good gold-silver ore being shipped between 1920 and 1927. In 1925, the Horn Silver Mining Corporation built a small mill which operated at 22 tons per day capacity. The mill, during its operation in 1926, milled only 700 tons.

In 1927, the management and ownership of the Mine changed. The Horn Silver Mining Corporation took control and continued development work until 1930 when the mine was closed. The mine and mill equipment was removed by 1933.

In 1933, Madison Oils Ltd. took control of the Horn Silver Mine property, and no work was recorded until 1958 when Canada Radium Corp. Ltd. of Toronto, optioned the property and carried out a development and diamond drill program. A total production of 5,878 tons containing 682 oz gold, 249,090 oz silver, 131 lbs copper, 1,471 lbs lead and 85 lbs zinc.

In the following year, Santo Silver Mines Ltd. optioned the property and carried out surface diamond drill and re-sampling programs. The operation was suspended in September, 1959 and no records are available to the writer for the period between 1959 to 1964 when the property was optioned by Utica Mines Ltd. In 1965, a major development and construction program was carried out and included the building of a 400-ton per day Mill facility.

Low silver prices starting in 1967 resulted in the closure of the Mine in 1970, and in 1972 re-organization took place with the name of the company being changed to Dankoe Mines Ltd. In 1974, the silver prices improved and Dankoe Mines Ltd. re-opened the Mine and continued its operation until June, 1981 when low-grade ore and depressed silver prices caused the closure of the underground operation. The Mill facility was kept in good condition in an attempt to continue operations, and in 1985, the mill was in operation for a short period of time on a custom-milling basis.

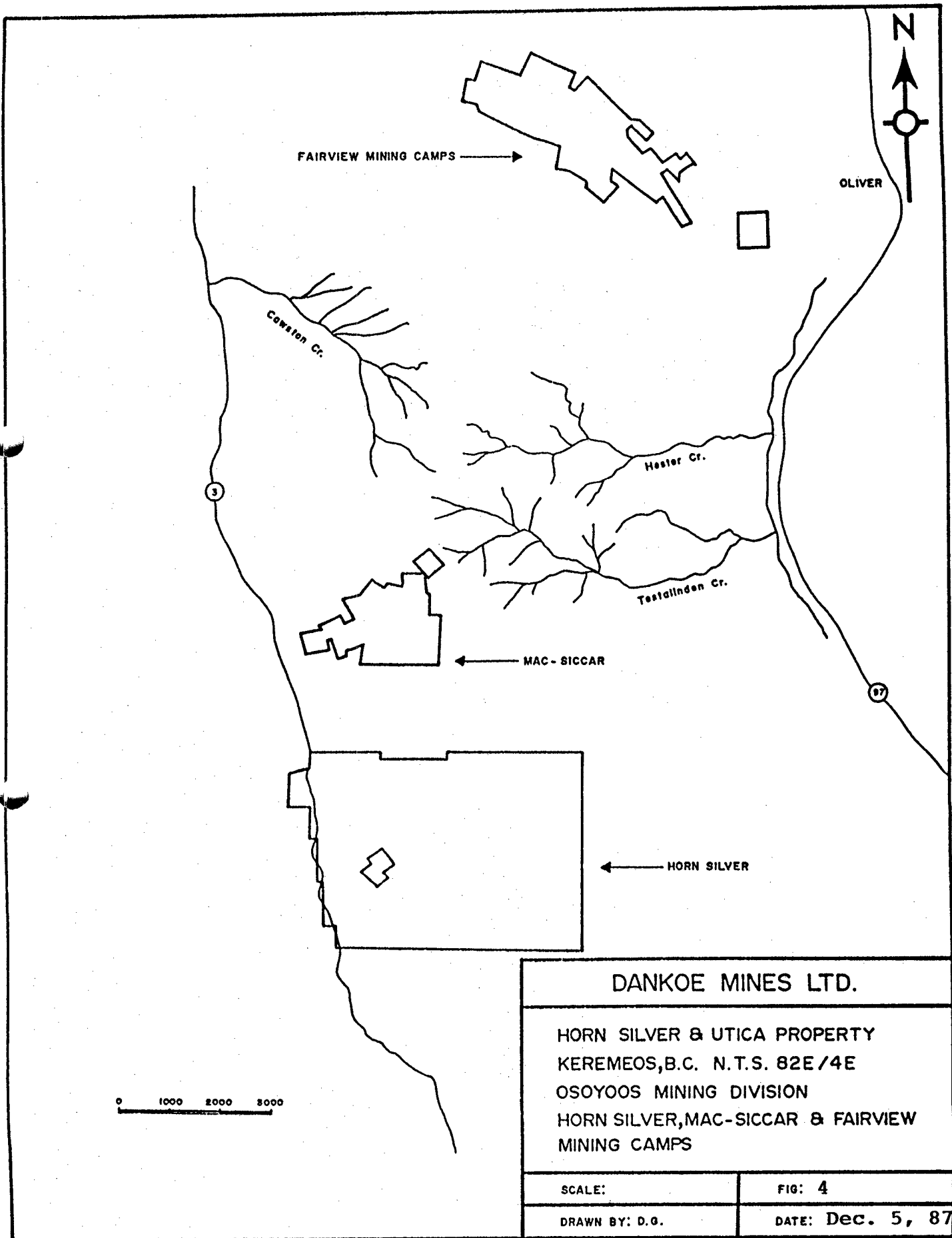
Adjacent or nearby properties are the Mak-Siccar which recorded production during 1934, 35, 38 and 39 of 189 tons producing 189 tons of gold and 69 ozs of silver. The Fairview camp recorded production between 1898 and 1949 of 16,263 ozs of gold and 34,050 ozs of silver from 38,938 tons.

## 2.0 GEOLOGY

### 2.1 Regional Geology (Figure 5)

The geology of the centre part of Keremeos and Oliver has been described in a number of memoirs, company and government reports. In essence, the geology of this comprises carbon-



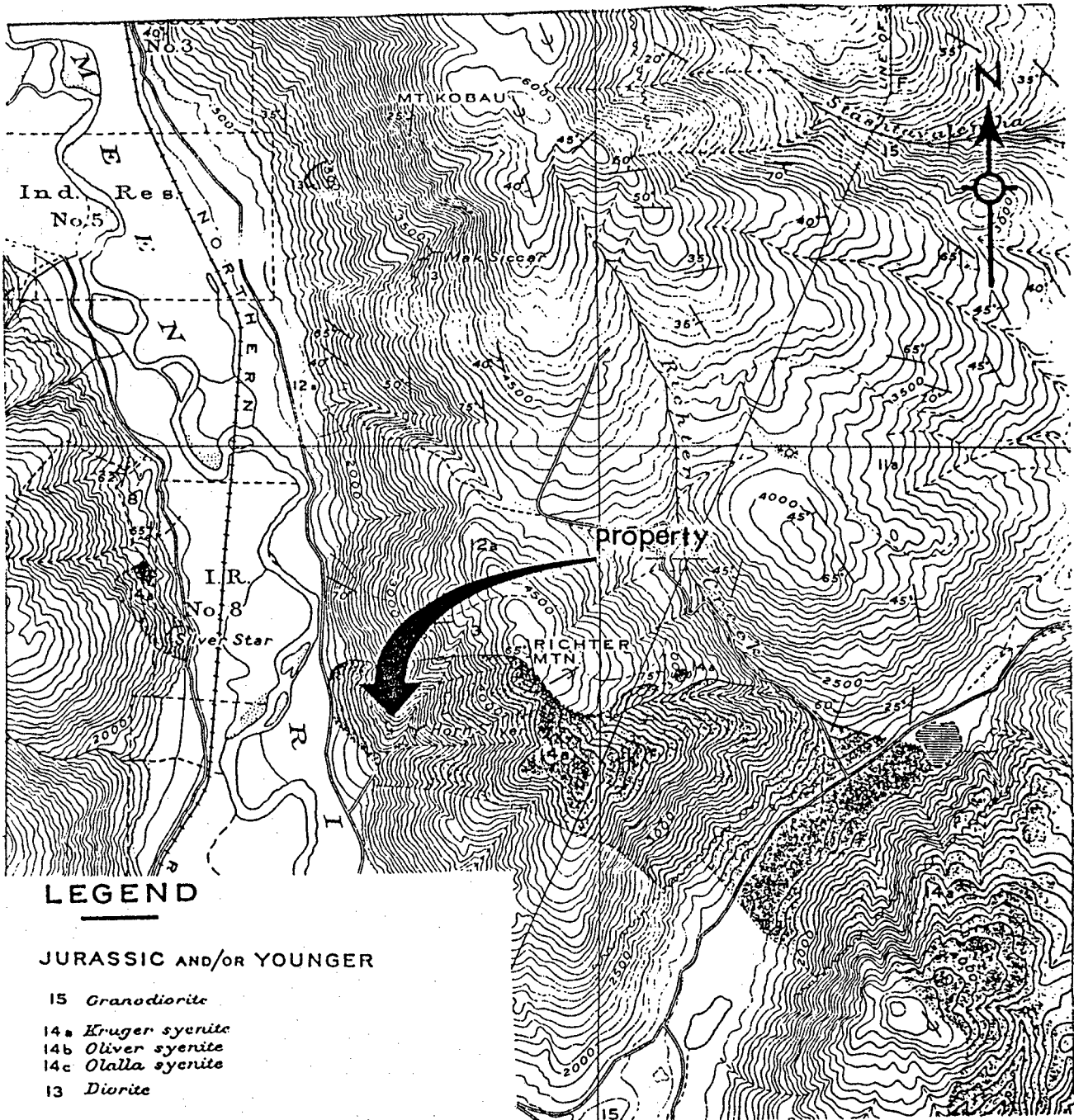


iferous sequence of the Kobau group (Unit 3), which comprises of a great thickness of metamorphosed, stratified rocks mainly of sedimentary origin. The quartzite members are thinly-bedded and commonly micaceous or graphitic. There are also fine grained, siliceous, mica schists, and other containing chlorite, hornblended, graphite and talc. The associated greenstones are variously sheared, and in a few locations are greatly faulted. It is probable that slices of formations other than those represented are present.

The Kobau group (Unit 3) has been intruded by younger intrusive rocks at Jurassic or younger in age and comprised of granodiorite, diorite and syenite. The intrusive rocks of the area, with the exception of the Fairview (Unit 11b) and the Osoyoos (Unit 11a) bodies, indicate a succession from ultra-basic and alkaline to more siliceous types. The syenites (Unit 14) have been invaded and largely replaced by intrusions of granodiorite and granite. The diorite (Unit 13) and granodiorite (Unit 15), lying within the area of Oliver granite have been intruded by granite. Elsewhere, diorite is intruded by granodiorite.

The Osoyoos and Fairview intrusives (Units 11a and 11b) included types varying from granite to diorite, granodiorite and quartz diorite being the most abundant. Some of the small bodies mapped as diorite are like dioritic phases of the Osoyoos and Fairview intrusives and may be contemporaneous. The age of Osoyoos and Fairview bodies relative to the intrusives in the area is not known, but they are believed to be older as they are more sheared and altered.

The gold veins of the Fairview camp and vicinity are grouped in a northwest trending belt and occur mainly in rocks of the Kobau group (Unit 3), and within 1.6 kilometers of the contact of Oliver granite (Unit 16a). Goldbearing veins are also found in this granite.



**LEGEND**

**JURASSIC AND/OR YOUNGER**

- 15 *Granodiorite*
- 14a *Kruger syenite*
- 14b *Oliver syenite*
- 14c *Olalla syenite*
- 13 *Diorite*
- 12a *Richter Mountain hornblendite*
- 12b *Olalla pyroxenite*

- 11a *Osoyoos granodiorite and associated rock types*
- 11b *Fairview granodiorite and associated rock types*

**CARBONIFEROUS**

- 3 **KOBAU GROUP**  
*Quartzite, schist, greenstone*

**DANKOE MINES LTD.**

HORN SILVER & UTICA PROPERTY  
 KEREMEOS, B.C. N.T.S. 82E /4E  
 OSOYOOS MINING DIVISION  
 REGIONAL GEOLOGY MAP

SCALE: 1" = 1 MILE

FIG: 5

DRAWN BY: D.G.

DATE: Dec. 5, 87

## 2.2 Property Geology (Figure 6)

The Utica claim block is underlain by an east-west trending 2.0 km to 1.3 km wide band of Kruger Syenite (Unit 14a) bordered to the north by Kobau group (Unit 3) and on the south and west by a large mass of younger granodiorite (Unit 15). The Kobau group is itself bordered to the north by the Richter Mountain hornblendite (Unit 12a) Argentite, tetrahedrite, pyrargyrite, ceragyrite, native silver, galena, sphalerite, pyrite. Irregular bodies of pyroxenitic hornblendite occur scattered through the monzonite and have replaced the ore in locations underground. Several similar dykes were noted on surface and appear to be related to magnetic highs and VLF cross overs. Narrow syenitic pegmatite dykes have been cut and displaced by the veins in the mine, some of these were also observed on surface.

## 3.0 SURVEY PROCEDURES

The November, 1987 work program on the Utica claim block was designed to form part of a proposed exploration program as well as determine the effectiveness of the instruments. This would aid in deciding what type of instruments may be most suitable for detailed work in the future.

Field work was intensified and conducted between November 13 and November 30th, 1987.

**3.1 Grid Emplacement:** 35.5 km of grid lines were emplaced over a portion of the claim group including 2.5 km of cut baseline. Cross lines were blazed and flagged with stations at 25 km intervals (1.5 km not used due to faulty compass).

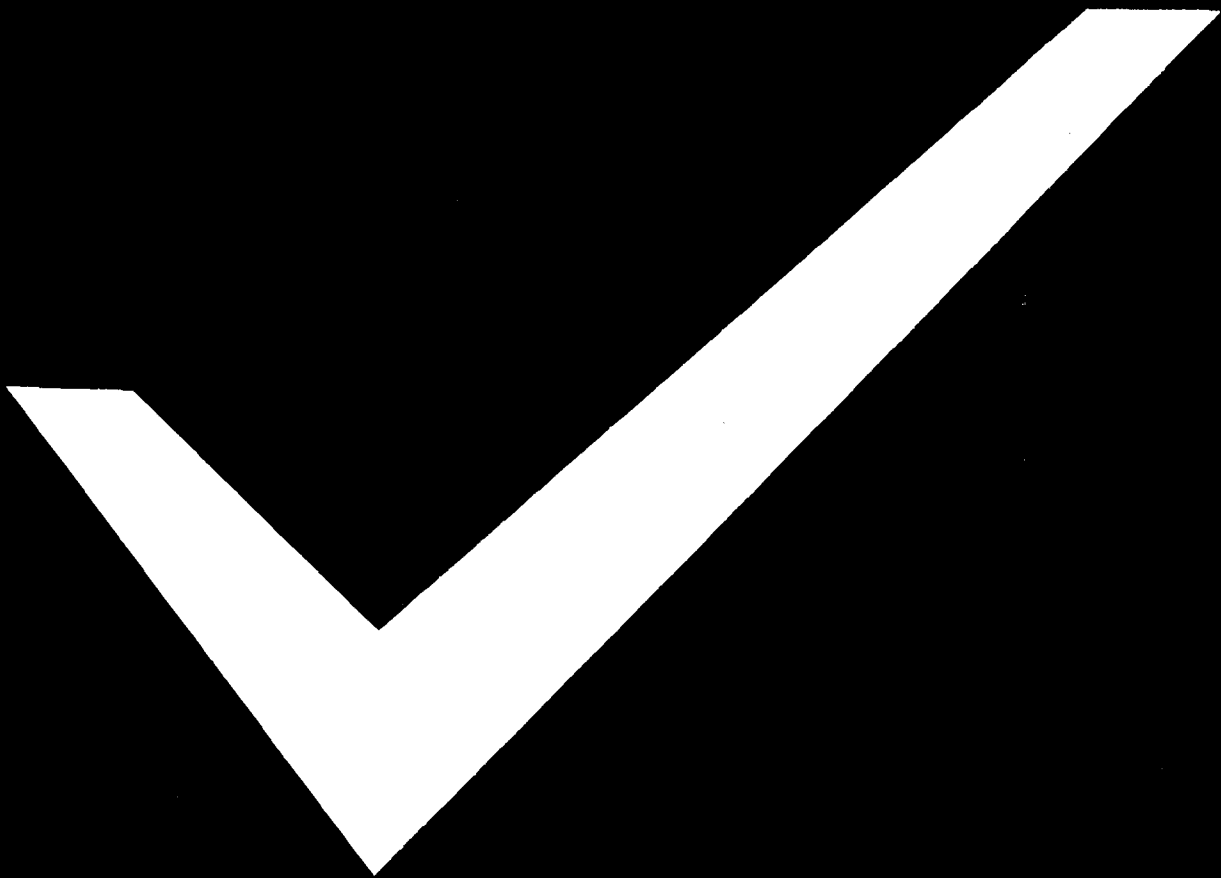
3.2 Geological Mapping: Reconnaissance geological mapping over the claims was performed to tie in and confirm contacts as well as locate known and new showings and/or veins. A considerable amount of rock outcrop is visible (approx. 35%).

3.3 Geophysical Surveys: A magnetometer survey using a Scintrex model GM-122 proton MP-2 procession magnetometer was conducted over the grid with readings in gammas taken at 25 m stations. The survey was performed to gather profile information and data was averaged and manually smoothed. A base station was maintained and looped for time variations, however, the rugged terrain made systematic loops impossible. A VLF-EM Survey using an EM16 receiver and the transmitter located at Seattle, Washington, U.S.A. with in-phase and quad-phase readings taken at 25 m stations. Dip angle data has been filtered and plotted using the method of Fraser (1970).

#### 4.0 MINERALIZATION AND STRUCTURE (Figure 6)

The silver bearing veins are mainly quartz with some calcite with the main economic mineral being argentiferous pyrite with minor native silver and acanthite, some galena, chalcopyrite and sphalerite are also present.

The mineralized veins exposed in the Mine generally strike easterly or south easterly and dip from  $0^{\circ}$  to  $30^{\circ}$  south. To the east these structures intersect a vein striking north  $15^{\circ}$  -  $40^{\circ}$  east and dip  $30^{\circ}$  -  $40^{\circ}$  to the southeast. Numerous small faults exist in the Mine and have been noted on surface as well. The most significant fault is located on the extreme east end of the workings and strikes northeast and dips  $55^{\circ}$  to the west. This fault has displaced the ore beyond the fault and ore has never been relocated.



# CORRECTION

# OF DOCUMENTS TO BE CORRECTED	REASON FOR THE CORRECTION	OPERATOR
1	HAND IN WAY	B. JENSEN

Some of the veins and surface structures are shown on the geology map and described herewith. Faults shown on geology maps have to some extent been assumed and no strong evidence was noted on surface besides topographic features and rock texture.

1. Pegmatite dykes
2. Narrow qtz. stringer heavily oxidized.
3. Narrow qtz. stringer barren.
4. Shurston vein strong qtz. vein with 10 m adit.
5. 30 - 40 cm qtz. veins significant as it has shown as a conductor on line 6 North and probably on line 8 North.
6. Narrow qtz. stringers.
7. 30 cm barren qtz. stringer.
8. Flat qtz. stringer  $45^{\circ}$ .
9. Flat qtz. stringer  $45^{\circ}$ .
10. Qtz. stringer some pyrite and chalcopryrite.

## 5.0 COST STATEMENT

Field personnel (including travel allowance or food and accomodations, W.C.B., C.P.P., U.I.C. and H.P.)

Man and chain saw 5 man days @ \$250.00/day	1,250.00	
Grid emplacement 22 man days @ \$145.00/day	3,190.00	
Instrument operators 17 man days @ \$175.00/day	2,975.00	
Travel - Vancouver to Kelowna to site and return		
Mileage	250.00	
2 man days @ \$300.00/day (Including program preparation)	600.00	
Cost Statement Continued...		
Consultant, supervisor geologist, (field work) 16 man days @ \$360.00/day	5,760.00	
	Sub-total	14,025.00
Equipment rental		
Geophysical equipment	658.00	
4 X 4 vehicles (2) 31 days @ \$50.00/day	1,550.00	
	Sub-total	2,208.00
Open Mine road from 520 m elev. to 800 m elev. to allow access to working area (approx. 3.5 km) 16 hrs. @ \$55.00/hr.	870.00	
Supplies including gasoline	578.60	
	Sub-total	1,468.60
Report preparation (Including plotting, drafting, filtering, averaging, word processing, copying, discussions re project with Ruben S. Verzosa, P.Eng.) Unit Cost	3,000.00	<u>3,000.00</u>
	TOTAL COST	<u><u>20,701.60</u></u>



## 6.0 CONCLUSIONS (Figure 7 and 8)

The Kobau formation in the Keremeos area is known to host gold bearing quartz veins which saw production around the turn of the century to mid 1900's. The Kobau formation as mapped, covers approximately 40 % of the Utica claim block.

The 1987 program must be considered reasonably successful as it did establish that the geophysical tools appears to be a useful prospecting tool and several stringers, veins and geological phenomena unrelated to the underground workings have been uncovered. To completely evaluate the program's effectiveness, more detailed work in specific grid locations would be well justified. This should take priority in any future work considered, which would in effect implement some of Mr. Gewargis' recommendations in his 1986 report.

- (1) Changes in conductivity and/or magnetic properties at or near geological mapped contacts are apparent. Several interpretations are offered below.
- (2) The most significant is the conductor and magnetic high at 4+00 to 4+50 North on line 6N. This represents a 40cm oxidized shear zone (qtz. vein?) and also appears as a cross over on line 8+00N.

Line 2 + 75N and 4+25N are over mine workings (8+00S to approximately 6+00N).

Line 22+00N, 20+00N, 18+00N at approximately 3+00 North may be topographical as deep gully is most apparent.

Conductor near baseline may represent dyke and/or fault zone.

Conductors to south of the baseline may be topographic, however, no evidence was noted to explain magnetic highs.

- (3) It is most apparent that in order to fully explain some of the anomalous features, more detail work is necessary which the scope of this program did not allow.

## 7.0 BIBLIOGRAPHY

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D.W. Pringle, P. Eng. 1984: Report on Horn Silver Mine, Dankoe Mines Ltd.

Review of some Company data and maps relating to the surface work on Utica claims.

W.A. Gewargis, B.Sc., F.G.A.C. evaluation report, 1986.

8.0 CERTIFICATE OF QUALIFICATIONS

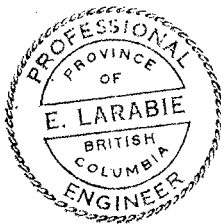
I, EUGENE N. LARABIE OF 332 St. Patrick Avenue, North Vancouver, British Columbia, hereby certify that:

1. I am a Consulting Engineer and President of Laroth Engineering Ltd., with an office at Suite 405, 595 Howe Street, Vancouver, British Columbia.
2. I am a Professional Engineer registered in British Columbia and Ontario.
3. I have practiced my profession since 1957 and have held several positions of responsibility in the mining and mining exploration field throughout Canada and the U.S.A.
4. That I personally supervised the 1987 work program described in this report.
5. And that I reviewed all pertinent data available.

Eugene N. Larabie, P.Eng.



December 5, 1987



Line 2+35W

00				
25	(+39) + (+36)	+75		
50		+63	+32	
75		+43	+38	
1 00		+25	-15	
25		+18	-14	
50		+11	-14	
75		+4	-11	
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50		-29	+14	
75		-20	+23	
10 00		-6	+25	
25		+5	+13	
50		+7	-6	
75		-1	-18	

2+25-4

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	75	-44	-21
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17	00	-41	+7
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	75	-10	+30
18	00	+2	+2
	25	+2	-6
	50	-4	-9
	75	-7	-6
15	00	-10	+2
	25	-5	+7
	50	-3	+6
	75	+1	



4+50.14

11 00

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+10

+3

-1

-8

-15

-20

-23

-21

-11

-1

+2

+3

+11

+15

+5

+3

-6

-11

-4

-16

-28

-38

-41

-34

-22

-13

-4

-9

-12

+16

+12





Line 4+255

00					
25	(+38) / (+41)		+ 79		
50			+ 86	+ 19	
75			+ 98	+ 24	
1 00			+ 110	+ 29	
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50					
75					
11 00					

L-6-14

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14 00	+ 11	- 19
25	+ 1	- 13
50	- 2	- 3
75	- 4	
15 00		

LINE 6 N

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	25	+43	-12
	50	+16	+27
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	25	+40	+8
	50	+44	+9
	75	+44	-4
8	00	+40	-8
	25	+32	-10
	50	+30	-2
	75	+30	-6
9	00	+24	-43
	25	-0	-69
	50	-42	-21
	75	-31	+21
10	00	-21	+23
	25	-9	+17
	50	-7	+8
	75	-1	+2



L-8-S

11 00  
25  
50  
25  
12 00

+36 -1  
+36 -2  
+39 -3  
+37 -6  
+40



Line 8-5

00					
25					
50					
75					
1 00					
25					
50					
75					
2 00					
25					
50					
75					
3 00					
25					
50					
75					
4 00					
25					
50					
75					
5 00					
25					
50					
75					
6 00					
25					
50					
75					
7 00					
25					
50					
75					
8 00					
25					
50					
75					
9 00					
25					
50					
75					
10 00					
25					
50					
75					

+37	
+27	-12
+25	-4
+31	+12
+37	+2
+33	+8
+45	+16
+49	-2
+43	-7
+42	+2
+45	-8
+34	-17
+28	-10
+28	-9
+17	-9
+13	-7
+10	-8
+5	-8
+2	-4
+1	-2
0	-0
-1	-0
0	-0
0	-5
-5	-15
-15	-35
-10	-33
-49	-9
-31	-17
-22	-15
-16	-8
-9	-7
-5	+10
+1	+16
+11	+22
+23	+19
+30	+12
+35	+10
+40	+1
+36	-7
+35	0
+36	+4
+37	0

L-10-N

11 00  
25  
50  
25  
12 00  
25  
50  
25  
13 00  
25  
50  
25  
14 00  
25  
50  
25  
15 00

-4  
-9  
-17  
-19  
-15  
-5  
+3  
+5  
+6  
+6  
+7  
+17  
+23  
+19  
+19  
+20  
+21

+9  
+13  
+10  
+2  
+14  
+10  
+3  
+1  
+1  
+9  
+16  
+2  
-5  
+1  
+2







1-12-5

11 00

25

50

25

12 00

25

50

25

13 00

25

50

25

14 00

25

50

25

15 00

~~-26~~

~~-17~~

~~-22~~

~~-26~~

~~-27~~

~~-29~~

~~-33~~

~~-31~~

~~-32~~

~~-29~~

~~-17~~

~~-12~~

~~-13~~

~~-15~~

~~-11~~

~~-9~~

~~-13~~

+21

+4

-9

-5

-3

-6

-2

+1

+2

+16

+17

+4

-1

-2

-4

-2



1-12-5

11 00

25

50

25

12 00

25

50

25

13 00

25

50

25

14 00

25

50

25

15 00

~~-26~~

~~-17~~

~~-22~~

~~-26~~

~~-27~~

~~-29~~

~~-33~~

~~-31~~

~~-32~~

~~-29~~

~~-17~~

~~-12~~

~~-13~~

~~-31~~

~~-11~~

~~-9~~

~~-13~~

+21

+4

-9

-5

-3

-6

-2

+1

+2

+16

+17

+4

-1

-2

-4

-2







Line 14 N

0 00	+10°	+12	(+19) (+19) 0
0 25	-10°	+18	(-10) (-5) -15
0 50	-5°	+12	(-5) (-5) -10
0 75	-5°	+18	(-5) (-5) -10
1 00	-5°	+18	(-5) (-19) -15
1 25	-10°	+18	(-10) (-20) -30
1 50	-20°	+12	(-20) (-24) -44
1 75	-24°	+14	(-24) (-26) -50
2 00	-26°	+14	(-26) (23) -54
2 25	-28°	+16	(-28) (24) -52
2 50	-24°	+12	(-24) (-24) -48
2 75	-24°	+10	(-24) (-20) -44
3 00	-20°	+8	(-20) (-15) -35
3 25	-15°	-8	(-15) (-10) -25
3 50	-10°	-10	(-10) (-27) -12
3 75	-2°	-12	(-2) (-4) -6
4 00	-4°	-12	(-4) (-10) -14
4 25	-10°	-10	(-10) (-14) -24
4 50	-14°	-16	-30
4 75	-16°	-12	-33
5 00	-12°	-12	-33
5 25	-16°	-4	-26
5 50	-10°	-8	-38
5 75	-8°	-10	-38
6 00	-20°	-10	-28
6 25	-18°	-8	-14
6 50	-10°	-2	-9
6 75	-4°	-2	-10
7 00	-5°	-4	-10
7 25	-5°	-2	-10
7 50	-5°	0	-9
7 75	-4°	0	-8
8 00	-4°	+2	-4
8 25	0°	+2	+3
8 50	+3°	+4	+8
8 75	+5°	+10	+19
9 00	+5°	+6	+2
9 25	-3°	+1	-8
9 50	-8°	+4	-13
9 75	-8°	+8	-13
10 00	-5°	+12	-2
10 25	+3°	+8	+8
10 50	+5°	+10	+18
10 75	+13°	+10	+18
11 00	+5°	+8	+18
11 25	+13°	+6	+30



L-14-S

11 00  
25  
50  
75  
12 00  
25  
50  
75  
12 00  
25  
50  
75  
12 00  
25  
50  
75  
12 00  
25  
50  
75  
12 00

-108  
-113  
-116  
-117  
-117  
-111  
-99  
-81  
-87  
-79  
-78  
-87  
-101  
-122  
-132  
-142

-7  
-8  
-4  
-1  
+6  
+18  
+30  
+12  
+2  
+9  
+8  
+23  
+35  
+36  
+20



L-16-S

11 00	-150	0
25	-148	-1
50	-151	+3
75	-145	+14
12 00	-137	+8
25	-137	+9
50	-148	+19
75	-156	+5
13 00	-153	+1
25	-155	-3
50	-156	+4
75	-151	+3
14 00	-153	+3
25	-148	+13
50	-140	+15
75	-133	+12
15 00	-128	



L-16-M

11 00

25

50

75

12 00

25

50

75

13 00

25

50

75

14 00

25

50

75

15 00

+10

+7

+7

+16

+23

+20

+3

+2

-5

-11

-16

-17

-21

-24

-32

-40

-44

+24

+17

+23

+30

+36

+36

+2

+18

+0

-11

-6

-5

-7

-9

-14

-8



L-18-14

11 00  
25  
50  
75  
12 00  
25  
50  
75  
13 00  
25  
50  
75  
14 00  
25  
50  
75  
15 00

+17  
+14  
+10  
+16  
+10  
+11  
+15  
+18  
+24  
+19  
+12  
+13  
-11  
-31  
-51  
-46

+2  
+7  
+2  
0  
-5  
-5  
-7  
-9  
+1  
+12  
+6  
-13  
~~-44~~  
-50  
-15

-44







L+125

11 00	-142	-1
25	-148	+13
50	-129	+15
75	-133	+12
12 00	-117	+17
25	-116	+4
50	-113	+6
75	-110	+5
13 00	-108	+4
25	-106	+3
50	-105	+1
75	-105	-1
14 00	-106	-5
25	-110	+1
50	-105	+9
75	-101	
15 00		







Line 20 N

00	+17	+24							
25	+15	+22							
50									
75									
100									
25									
50									
75									
200									
25									
50									
75									
300									
25									
50									
75									
400									
25									
50									
75									
500									
25									
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75									
600									
25									
50									
75									
700									
25									
50									
75									
800									
25									
50									
75									
900									
25									
50									
75									
1000									
25									
50									
75									

+32  
 +27  
 +15  
 +3  
 -10  
 -32  
 -62  
 -56  
 -27  
 -33  
 -28  
 -28  
 -23  
 -22  
 -19  
 -20  
 -33  
 -47  
 -58  
 -67  
 -75  
 -75  
 -70  
 -65  
 -50  
 -35  
 -28  
 -24  
 -19  
 -13  
 -7  
 -1  
 +3  
 +4  
 +2  
 -6  
 -15  
 -15  
 -9  
 -7  
 -9  
 -15  
 -23

-17  
 -24  
 -25  
 -35  
 -52  
 -22  
 +15  
 +23  
 -1  
 +5  
 +5  
 +6  
 +5  
 +2  
 -14  
 -27  
 -25  
 -20  
 -17  
 -8  
 +5  
 +10  
 +20  
 +20  
 +22  
 +11  
 +9  
 +11  
 +12  
 +12  
 +10  
 +5  
 +1  
 -10  
 -17  
 -9  
 +6  
 +8  
 0  
 -8  
 -14  
 -10

L-22-N

11	00	+13	+8	+30	+17
	25	+17	+10	+33	+12
	50	+16	+10	+26	-7
	75	+10	+8	+15	-18
12	00	+5	+2	+12	-14
	25	+7	0	-3	-18
	50	-10	-10	-9	-8
	75	-9	-8	-11	+10
13	00	-2	0	-11	-7
	25	-9	-6	-18	-13
	50	-9	-2	-25	-7
	75	-16	-2	-20	+10
14	00	-9	+4	-15	+6
	25	-6	+4	-14	0
	50	-8	+6	-14	+3
	75	-7	+6	-11	
15	00	-4	+7		



LINE 22 N

	00	+5	+10		+10			
	25	+5	+10		+15	+2		
	50	+10	+12		+12	-13		
	75	+2	+12		+4	-15		
1	00	+2	+12		-3	-17		
	25	-5	+14	R	-13	-18		
	50	-8	+14	R	-21	-17		
	75	-13	+18		-27	-16		
2	00	-24	+12		-67	-50		
	25	-43	+10		-77	+15		
	50	-34	+6		-52	+59		
	75	-18	+8		-23	+49		
3	00	-5	+8		-31	+15		
	25	+2	0		-8	+4		
	50	-10	-10		-7	+25		
	75	+3	-10		+17	+19		
4	00	+14	-10		+12	+33		
	25	-2	-12		-18	-49		
	50	-16	-14		-37	-36		
	75	-21	-14		-52	-38		
5	00	-31	-16		-77	-36		
	25	-44	-18		-82	-14		
	50	-44	-18		-89	+3		
	75	-45	-14		-81	+12		
6	00	-40	-8		-77	+22		
	25	-33	-6		-63	+17		
	50	-30	-6		-60	+9		
	75	-30	-6	R	-54	+15		
7	00	-24	-2	R	-45	+16		
	25	-21	0		-38	+14		
	50	-17	+2	RMT	-29	+20		
	75	-12	+2		-18	+25		
8	00	-6	+4		-4	+21		
	25	+2	+8		+34	+8		
	50	+1	+6		+37	+1		
	75	+2	+8		+41	+2		
9	00	+2	+8		+57	+9		
	25	+3	+4		+77	+4		
	50	+4	+4		+9	+4		
	75	+5	+4		+11	+4		
10	00	+6	+4		+131	+1		
	25	+7	+4		+121	0		
	50	+5	+2		+13	+8		
	75	+8	+4		+21	+7		

L-20-3

11 00  
25  
50  
75  
12 00  
25  
50  
75  
13 00  
25  
50  
75  
14 00  
25  
50  
75  
15 00

~~-118~~ -1  
~~-113~~ -2  
~~-120~~ -2  
~~-134~~ 0  
~~-120~~ +30  
~~-101~~ +26  
~~-94~~ +15  
~~-86~~ +17  
~~-80~~ +10  
~~-76~~ +12  
~~-68~~ +17  
~~-55~~ +25  
~~-43~~ +16  
~~-39~~ +5  
~~-38~~ 0  
~~-37~~ -3  
~~-41~~







L-2+75 5

Nov 21 1957

PAGE

12+00	-2	-4
12+15	-4	-4
12+40	-1	-4
12+50	-1	-4
12+55	-2	-4
12+58	0	-4
12+50	+1	-4
12+55	+1	-2
12+58	-1	-6
12+50	-8	-6
12+55	-8	-6
12+58	-7	-4
12+55	+8	+2
12+50	+15	+4
12+55	+17	-4
12+58	+22	+4
12+55	+27	+10
12+50	+14	+4
12+55	+37	+4
12+58	+38	+2
12+55	+39	0
12+50	+38	-1
12+25	+39	-1

Line 2+75 N

Nov 21 1957

PAGE

0+00	+39	+2
0+25	+36	-2
0+50	+21	-10
0+75	+5	-2
1+00	+9	-16
1+25	+9	-20
1+50	+3	-20
1+75	+1	-20
2+00	-1	-22
2+25	-2	-24
2+50	-5	-20
2+75	-7	-20
3+00	-10	-22
3+15	-12	-24
3+50	-13	-18
3+75	-12	-20
4+00	-10	-18
4+25	-6	-18
4+50	-9	-16
4+75	-11	-16
5+00	-5	-12
5+25	-1	-12
5+50	+4	-6
5+75	+9	-2

JOB

DATE

PAGE

12+00	-22	-34
12+25	-27	-22
12+50	-24	-16
12+75	-21	-14
13+00	-20	-16
13+25	-18	-14
13+50	-10	-14
13+75	0	-14
14+00	+2	-14
14+25	0	-18
14+50	-4	-20
14+75	-3	-20
15+00	-7	-18
15+25	-3	-18
15+50	-2	-16
15+75	-1	-8
16+00	+2	-2

PARTY CHIEF

WEATHER

PARTY CHIEF

WEATHER





9+00	- 25	+10
8+75	- 20	+14
8+50	- 20	+14
8+25	- 25	+14
8+00	- 30	+18
7+75	- 20	+22
7+50	- 18	+22
7+25	- 15	+22
7+00	- 11	+18
6+75	- 12	+18
6+50	- 10	+16
6+25	- 7	+14
6+00	- 9	+10
5+75	- 15	+8
5+50	- 16	+8
5+25	- 23	+8
5+00	- 20	+9
4+75	- 15	+12
4+50	- 5	+10
4+25	+9	+8
3+00	+16	+4
2+25	+20	+9
2+50	+5	+12
2+75	+4	+14

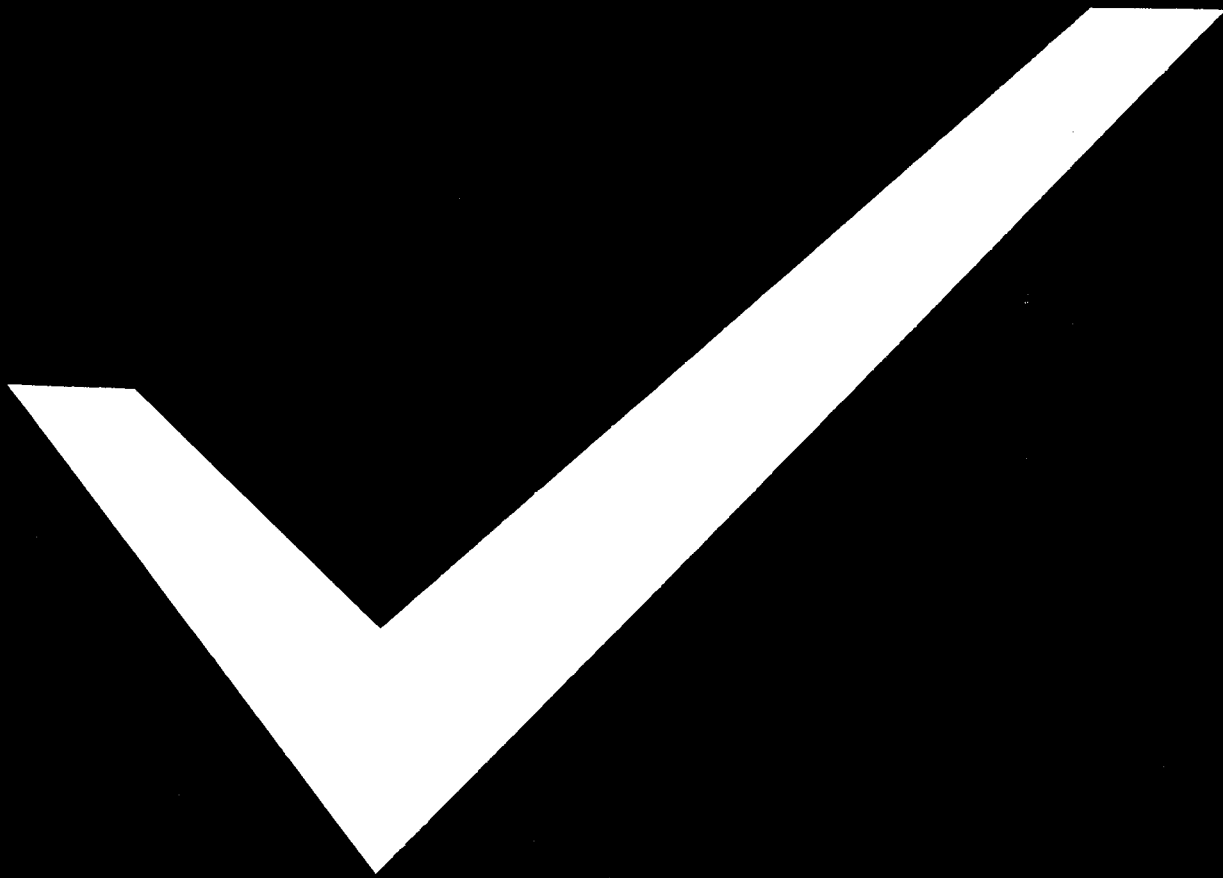
15+00	-2	-4
14+75	-2	-6
14+50	0	-6
14+25	+1	-8
14+00	+10	-8
13+75	+10	-12
13+50	+15	-8
13+25	+14	-6
13+00	+12	-8
12+75	+10	-6
12+50	+5	-2
12+25	+11	-8
12+00	+11	-6
11+75	+10	-4
11+50	+3	-6
11+25	+0	-4
11+00	-2	0
10+75	0	0
10+50	-1	+2
10+25	-3	+4
10+00	-6	+4
9+75	-15	+4
9+50	-19	+10
9+25	-23	+10

PARTY CHIEF.....  
 WEATHER.....

PARTY CHIEF.....  
 WEATHER.....

2600	110	116
2525	140	115
2450	125	116
2375	100	116
2300	110	115
2225	119	114
2150	115	114
2075	111	113
2000	114	114
1925	115	114
1850	116	114
1775	117	113
1700	118	112
1625	119	111
1550	120	110
1475	121	109
1400	122	108
1325	123	107
1250	124	106
1175	125	105
1100	126	104
1025	127	103
950	128	102
875	129	101
800	130	100
725	131	99
650	132	98
575	133	97
500	134	96
425	135	95
350	136	94
275	137	93
200	138	92
125	139	91
50	140	90

No.....  
 Date..... 26 Nov 1957 Page.....



# CORRECTION

# OF DOCUMENTS TO BE CORRECTED	REASON FOR THE CORRECTION	OPERATOR
1	DOCUMENT UPSIDE DOWN	BUTENSEN

OB..... Line 6 - 5

DATE..... PAGE.....

	10+00	-18		-22
	9+75	-21		-22
	9+50	-20		-20
	9+25	-20		-20
	9+00	-19		-20
	8+75	-15		-16
	8+50	-14		-14
	8+25	-14		-14
	8+00	-13		-12
	7+75	-9		-14
	7+50	-8		-14
	7+25	-4		-10
	7+00	-2		-10
	6+75	+5		-6
	6+50	+9		-4
	6+25	+12		-4
	6+00	+17		+2
	5+75	+21		+6
	5+50	+23		+8
	5+25	+27		+8
	5+00	+28		+10
	4+75	+27		+14
	4+50	+25		+12
	4+25	+28		+12

10<sup>5</sup>\*

BCLS

PARTY CHIEF.....

WEATHER.....





5150	-20	+6	
5125	-15	+4	
5100	-15	+4	
4175	-13	+6	BCLS
4150	-9	+6	
4125	-10	+6	
4100	-11	+4	
3175	-10	+6	
3150	-5	+6	
3125	-4	+6	
3100	-1	+10	
2175	0	+10	
2150	+4	+10	
2125	+6	+10	
2100	+10	+12	
175	+14	+12	
150	+13	+16	
125	+19	+16	
100	+17	+16	
75	+27	+16	
50	+30	+16	
25	+33	+18	
0	+30	+16	

5150	-0	+3	
5125	-1	+0	
5100	-1	+1	
4175	-6	+2	
4150	-9	+3	
4125	-12	+7	
4100	-23	+10	
3175	-25	+10	
3150	-26	+12	
3125	-29	+19	
3100	-18	+20	
2175	-15	+20	
2150	-11	+18	
2125	-10	+21	
2100	-9	+20	
175	-7	+17	
150	-2	+15	
125	-4	+15	
100	-8	+20	
75	-4	+8	
50	-1	+9	
25	-2	+7	
0	-5	+8	
5175	-10	+3	

RTY CHIEF.....  
 FATHER.....

6+00	0	-14	
6+25	-5	-12	
6+50	-16	-14	
6+75	-30	-20	
7+00	-19	-16	
7+25	-12	-12	
7+50	-10	-10	
7+75	-6	-6	
8+00	-3	-6	
8+25	-2	-4	
8+50	+3	-2	
8+75	+8	0	
9+00	+15	+4	
9+25	+15	0	
9+50	+20	+8	
9+75	+20	0	
10+00	+16	+8	
10+25	+17	+2	
10+50	+19	+2	
10+75	+18	+4	
11+00	+19	+4	
11+25	+18	+4	
11+50	+16	+2	
11+75	+21	+6	

+ + 61 + 00 + 12

PARTY CHIEF.....  
 WEATHER.....

JOB: L-E-S  
 DATE: ..... PAGE: 14

6+00	0	-14
6+25	-5	-12
6+50	-16	-14
6+75	-30	-20
7+00	-19	-16
7+25	-12	-12
7+50	-10	-10
7+75	-6	-6
8+00	-3	-6
8+25	-2	-4
8+50	+3	-2
8+75	+8	0
9+00	+15	+4
9+25	+15	0
9+50	+20	18
9+75	+20	0
10+00	+6	+8
10+25	+17	+2
10+50	+19	+2
10+75	+18	+4
11+00	+17	+4
11+25	+18	+4
11+50	+11	+2
11+75	+6	+6

PARTY CHIEF.....  
 WEATHER.....

No. L-E-S  
 Date: ..... Page: 10

07-35	+2	-
08-00	+6	-10
08-15	+7	-8
08-30	+1	-5
08-45	+5	-5
09-00	+6	-4
09-15	+8	-6
09-30	+7	-7
09-45	+5	-6
10-00	+2	-2
10-15	+6	-6
10-30	+2	-7
10-45	+1	-4
11-00	+4	-3

(P. B. Smith)

JOB.....  
 DATE..... *Line 10 South* PAGE.....

JOB.....  
 DATE..... *Line 10 South* PAGE.....

1100	-5	+18
135	-3	+12
150	-4	+11
175	-3	+10
200	-5	+10
225	-3	+8
250	-5	+5
275	-5	+8
300	-1	+8
325	-2	+6
350	-2	+6
375	-5	+4
400	-6	+4
425	-10	0
450	-12	-2
475	-16	0
500	-14	-4
525	-12	-4
550	-11	-2
575	-8	-2
600	-1	+4
625	0	+6
650	-2	0
675	-1	-2

6100	13	+2
6125	+3	0
6150	+5	0
6175	+6	0
6200	+9	+2
6225	+11	0
6250	+15	+2
6275	+18	+2
6300	+20	+3
6325	+24	+6
6350	+18	+6
6375	+12	+6
6400	+13	+8
6425	+12	+6
6450	+14	+15
6475	+20	+6
6500	+29	+8

PARTY CHIEF.....  
 WEATHER.....

PARTY CHIEF.....  
 WEATHER.....

*Line 10 N*

15.00	+11	+8
14.75	+10	+4
14.50	+10	+2
14.25	+9	+2
14.00	+10	+1
13.75	+13	+2
13.50	+4	0
13.25	+3	-
13.00	+3	+2
12.75	+3	0
12.50	+2	0
12.25	+1	+2
12.00	-6	-8
11.75	-9	-6
11.50	+10	-5
11.25	-7	-6
11.00	-2	-7
10.75	-2	-10
10.50	-3	-8
10.25	-1	-10
10.00	-2	-10
9.75	-3	-6
9.50	-3	-10
9.25	-2	-8

JOB.....  
 DATE..... *Nov 17 87* PAGE.....

PARTY CHIEF.....  
 WEATHER.....

OB..... 2-10-14 .....

JOB..... 2-10-14 .....

DATE..... PAGE.....

DATE..... PAGE.....

	3	+00	+9		+4
	2	+75	+9		+4
	2	+50	+8		+4
	2	+25	+2		0
	2	+00	+2		+2
	1	+75	+2		+4
	1	+50	+4		+8
	1	+25	-10		+6
	1	+00	-15		+4
	0	+75	-13		+8
	0	+50	-2		-12
	0	+25	-1		+14
	0	+00	+1		214

	9	+00	0		-6
	8	+75	-2		-6
	8	+50	-3		-8
	7	+25	-5		-6
	7	+00	-4		-4
	7	+75	-4		-2
	7	+50	-4		-4
	7	+25	-4		-6
	7	+00	-7		-4
	6	+75	-7		-8
	6	+50	-6		-8
	6	+25	-5		-6
	6	+00	-5		-6
	5	+75	-3		-8
	5	+50	+4		-4
	5	+25	+5		-2
	5	+00	+7		-2
	4	+75	+10		-2
	4	+50	+12		+4
	4	+25	+8		+2
	4	+00	+5		+2
	3	+75	+3		0
	3	+50	+7		+4
	3	+25	+7		+4

PARTY CHIEF.....

PARTY CHIEF.....

WEATHER.....

WEATHER.....

7+00	+24	+4	0+00	-18	2
8+25	-20	+4	0+25	-15	-4
8+50	-14	-12	0+50	-10	-0
8+25	-13	-6	0+75	-5	+2
8+00	-9	-6	1+00	-5	+2
7+75	+4	-4	1+25	-3	+0
			1+50	0	+6
			1+75	+3	+8
			2+00	+4	+8
			2+25	+5	+8
			2+50	+6	+8
			2+75	+8	+10
			3+00	+9	+10
			3+25	+9	+12
			3+50	+5	+8
			3+75	0	+8
			4+00	0	+8
			4+25	0	+8
			4+50	0	+8
			4+75	0	+0
			5+00	0	+8
			5+25	+2	+6
			5+50	+3	+4
			5+75	+7	+6

PARTY CHIEF.....  
 WEATHER.....

Line 12 South PAGE.....

7+00	-9	+24
7+25	-4	+14
7+50	-5	+12
7+75	-6	+10
8+00	-7	+10
8+25	-6	+15
8+50	-6	+6
8+75	-11	+6
9+00	-8	+6
9+25	-15	+8
9+50	-17	+6
9+75	-16	+6
10+00	-13	+6
10+25	-16	+9
10+50	-12	+8
10+75	-10	+12
11+00	-7	+11
11+25	-14	+16
11+50	-14	+16
11+75	-20	+16
12+00	-20	+14
12+25	-24	+12
12+50	-21	+16
12+75	-21	+11

PARTY CHIEF.....  
 WEATHER.....







Line 14+00 S

Nov 17, 87

PAGE

JOB

L-14-5

DATE

PAGE

14	00	-8	+16
0	25	-7	+12
0	50	-2	+14
0	75	0	+12
1	00	-4	+12
1	25	+3	+14
1	50	+8	+18
1	75	+10	+16
2	00	+12	+16
2	25	+10	+14
2	50	+8	+14
2	75	+7	+14
3	00	+5	+12
3	25	+3	+10
3	50	+3	+10
3	75	+2	+8
4	00	+1	+8
4	25	-1	+4
4	50	-2	+4
4	75	-6	+2
5	00	-7	0
5	25	-8	0
5	50	-12	-2
5	75	-14	-4

12	00	-59	-20
12	25	-58	-18
12	50	-53	-20
12	75	-46	-18
13	00	-45	-18
13	25	-42	-18
13	50	-37	-16
13	75	-41	-18
14	00	-46	-18
14	25	-55	-18
14	50	-67	-22
14	75	-70	-22
15	00	-72	-18

CHIEF  
ER

PARTY CHIEF

WEATHER

PAGE

14	00	-8	+16	
0	25	-7	+12	-10
0	50	-2	+14	-10
0	75	0	+12	-8
1	00	-4	+12	-2
1	25	+3	+14	-2
1	50	+8	+18	+4
1	75	+10	+16	+4
2	00	+12	+16	0
2	25	+10	+14	0
2	50	+8	+14	+2
2	75	+7	+14	+2
3	00	+5	+12	+4
3	25	+3	+10	+10
3	50	+3	+10	+6
3	75	+2	+8	+1
4	00	+1	+8	+4
4	25	-1	+4	+8
4	50	-2	+4	+17
4	75	-6	+2	+8
5	00	-7	0	+10
5	25	-8	0	+8
5	50	-12	-2	+10
5	75	-14	-4	+8

PARTY CHIEF  
WEATHER

JOB.....  
 DATE.....PAGE.....

JOB.....  
 DATE 2-14-14.....PAGE.....

6+00	-18	-4
6+25	-22	-4
6+50	-22	-6
6+75	-24	-5
7+00	-32	-10
7+25	-32	-10
7+50	-35	-12
7+75	-37	-12
8+00	-40	-12
8+25	-42	-12
8+50	-44	-14
8+75	-47	-16
9+00	-52	-18
9+25	-55	-20
9+50	-53	-18
9+75	-40	-14
10+00	-47	-17
10+25	-52	-20
10+50	-53	-16
10+75	-51	-16
11+00	-53	-18
11+25	-55	-18
11+50	-58	-20
11+75	-58	-10

	11+50	+22
	11+75	+18
	12+00	+14
	12+25	+12
	12+50	+4
	12+75	+3
	13+00	-3
	13+25	-10
	13+50	-14
	13+75	-18
	14+00	-20
	14+25	-24
	14+50	-23
	14+75	-25
	15+00	-26

PARTY CHIEF.....  
 WEATHER.....

PARTY CHIEF.....  
 WEATHER.....

Line 1414  
 Nov. 15, 87

Line	0+00	0+25	0+50	0+75	1+00	1+25	1+50	1+75	2+00	2+25	2+50	2+75	3+00	3+25	3+50	3+75	4+00	4+25	4+50	4+75	5+00	5+25	5+50
Angle	+12	+18	+12	+18	+18	+18	+14	+14	+16	+12	+10	+8	-8	-10	-12	-12	-10	-10	-12	-12	-4	-8	
Dist	40	100	50	50	50	100	200	200	260	200	240	240	260	150	100	100	140	160	170	160	160	160	100

CHIEF.....  
 R.....

	3+	75	-22	-8
	4+	00	-28	-10
	4+	25	-22	-14
	4+	50	-21	-12
	4+	75	-15	-12
	5+	00	-11	-10
	5+	25	-9	-6
	5+	50	-7	-2
	5+	75	-8	-2
	6+	00	-13	-4
	6+	25	-14	-2
	6+	50	-17	-2
	6+	75	-7	+2
	7+	00	-9	+2
	7+	25	-5	+6
	7+	50	-4	+4
	7+	75	-10	+4
	8+	00	-7	+2
	8+	25	-8	+4
	<del>8+</del>	<del>50</del>	-8	+2
	8+	75	-10	+2
A R	9+	00	-13	0
	9+	25	-14	-2
	9+	50	-16	0

	0+	00	+2	+2
	0+	25	-5	+2
	0+	50	-15	+2
	0+	75	-14	+2
	1+	00	-10	+2
	1+	25	-33	+2
	1+	50	-18	+2
	1+	75	-10	+2
	2+	00	-10	+2
	2+	25	-5	+2
	2+	50	-7	+2
	2+	75	-15	+2
	3+	00	-14	-2
	3+	25	-20	-2
	3+	50	-27	-6

PARTY CHIEF.....  
 WEATHER.....

PARTY CHIEF.....  
 WEATHER.....

3..... Line 16 N ..... PAGE.....

9+	75	-7	+6
10+	00	+3	+12
10+	25	+9	+18
10+	50	+11	+16
11+	00	+6	+14
11+	25	+4	+12
11+	50	+3	+12
12+	00	+4	+14
12+	25	+12	+16
12+	50	+11	+18
13+	00	+9	+18
13+	25	+4	+14
13+	50	-2	+14
13+	75	-3	+18
13+	00	-8	+10
13+	25	-8	+6
13+	50	-11	+2
14+	00	-10	+2
14+	25	-14	0
14+	50	-18	-4
14+	75	-22	-4
15+	00	-22	-8

PARTY CHIEF.....  
 WEATHER.....

JOB.....

L 165

L-16-5

PAGE.....

DATE.....

PAGE.....

1+00	47	+22	3+00	-1	44
0+75	48	+22	2+75	+2	46
0+50	+20	+24	2+50	+7	+8
0+25	+25	+26	2+25	+10	+12
0+00	+28	+28	2+00	+12	+12
			1+75	+12	+10
			1+50	+12	+14 R
			1+25	+11	44
			1+00	+10	+18
			0+75	+8	+18
			0+50	+11	+22
			0+25	+6	+22
			0+00	+1	+22

PARTY CHIEF.....

WEATHER.....

Line 16-5  
Nov 17, 27

15	00	-65	-78
14	75	-63	-81
14	50	-70	-16
14	25	-70	-72
14	00	-78	-10
13	75	-75	-18
13	50	-76	-20
13	25	-80	-20
13	00	-75	-20
12	75	-78	-18
12	50	-78	-18
12	25	-70	-14
12	00	-67	-14
11	75	-70	-16
11	50	-75	-16
11	25	-76	-18
11	00	-72	-14
10	75	-78	-18
10	50	-70	-16
10	25	-78	-20
10	00	-64	-21
9	75	-58	-10
9	50	-60	-10
9	25	-55	-10

PARTY CHIEF.....

WEATHER.....

JOB.....

DATE.....PAGE.....

9+00	- 54	- 8	
8+75	- 54	- 10	
8+50	- 56	- 12	
8+25	- 55	- 10	
8+00	- 54	- 10	
7+75	- 54	- 10	
7+50	- 50	- 8	
7+25	- 46	- 8	
7+00	- 44	- 6	
6+75	- 37	- 6	
6+50	- 27	- 2	
6+25	- 27	- 2	
6+00	- 30	- 4	
5+75	- 26	- 4	
5+50	- 25	- 4	
5+25	- 24	- 6	
5+00	- 25	- 6	
4+75	- 23	- 4	
4+50	- 22	- 4	
4+25	- 17	- 4	
4+00	- 15	- 2	
3+75	- 8	0	
3+50	- 5	+2	
3+25	- 3	+4	

PARTY CHIEF.....

WEATHER.....





1+00	-6	-2	
8+75	0	+2	
7+50	+2	+4	
8+25	+2	+2	
8+00	+1	+2	
7+75	-2	0	
7+50	-5	0	
7+25	-8	0	
7+00	-11	-2	
6+75	-13	0	
6+50	-15	+2	
6+25	-20	0	
6+00	-30	+4	
5+75	-35	-2	
5+?	-35	-6	
5+25	-40	-12	
5+00	-35	-10	
4+75	-32	-12	
4+50	-26	-10	
4+25	-21	-10	
4+00	-12	-12	
3+75	-8	-14	
3+50	-11	-18	
3+25	-11	-18	

PARTY CHIEF.....

WEATHER.....

	3+00	-12	-14	R
	2+75	-16	-6	
	2+50	-12	+12	R
	2+25	-11	+14	R
	2+00	-16	+16	
	1+75	-40	+18	
	1+50	-22	+22	
	1+25	-10	+16	
	1+00	0	+18	
	0+75	+3	+20	
	0+50	+12	+20	
	0+25	+15	+22	
	0+00	+17	+24	

PARTY CHIEF.....

WEATHER.....





JOB..... Line 20 N

DATE..... PAGE.....

	15	00	-34	+2	
	14	75	-18	+8	
	14	50	-10	+8	AR
	14	25	-4	+4	
	14	00	+7	+10	
	13	75	+12	+8	
	13	50	+17	+8	
	13	25	+20	+8	
	12	00	+20	+10	
	12	75	+12	+8	
	12	50	+11	+8	
	12	25	+7	+8	R
	12	00	+11	+6	
	11	75	+12	+4	
	11	50	+4	+6	
	11	25	-1	+4	
	11	00	-12	-4	
	10	75	-13	-10	AR
	10	50	-10	-2	
	10	25	-5	0	
	10	00	-4	0	
	9	75	-3	+2	
	9	50	-6	0	
	9	25	-9	-2	

PARTY CHIEF.....

WEATHER.....

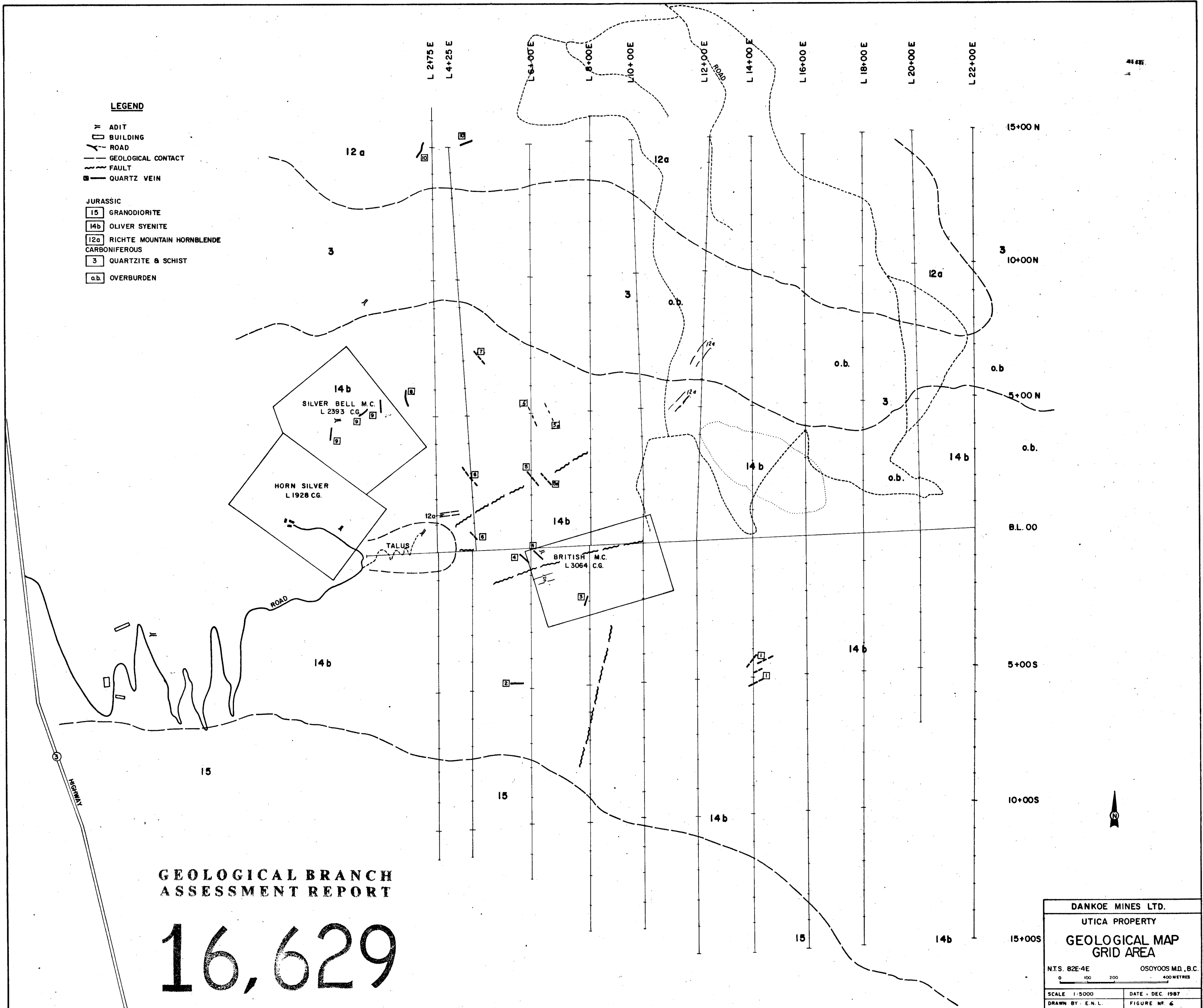




**LEGEND**

- ADIT
- BUILDING
- ROAD
- GEOLOGICAL CONTACT
- FAULT
- QUARTZ VEIN

- JURASSIC**
- GRANODIORITE
  - OLIVER SYENITE
  - RICHTÉ MOUNTAIN HORNBLENDE
- CARBONIFEROUS**
- QUARTZITE & SCHIST
  - OVERBURDEN



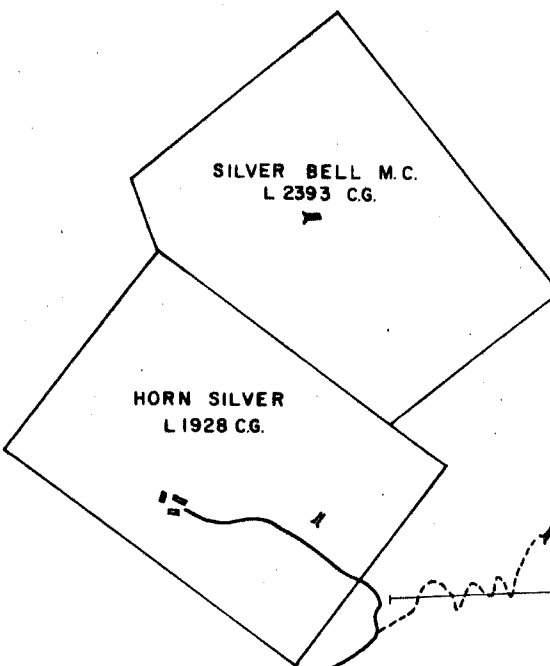
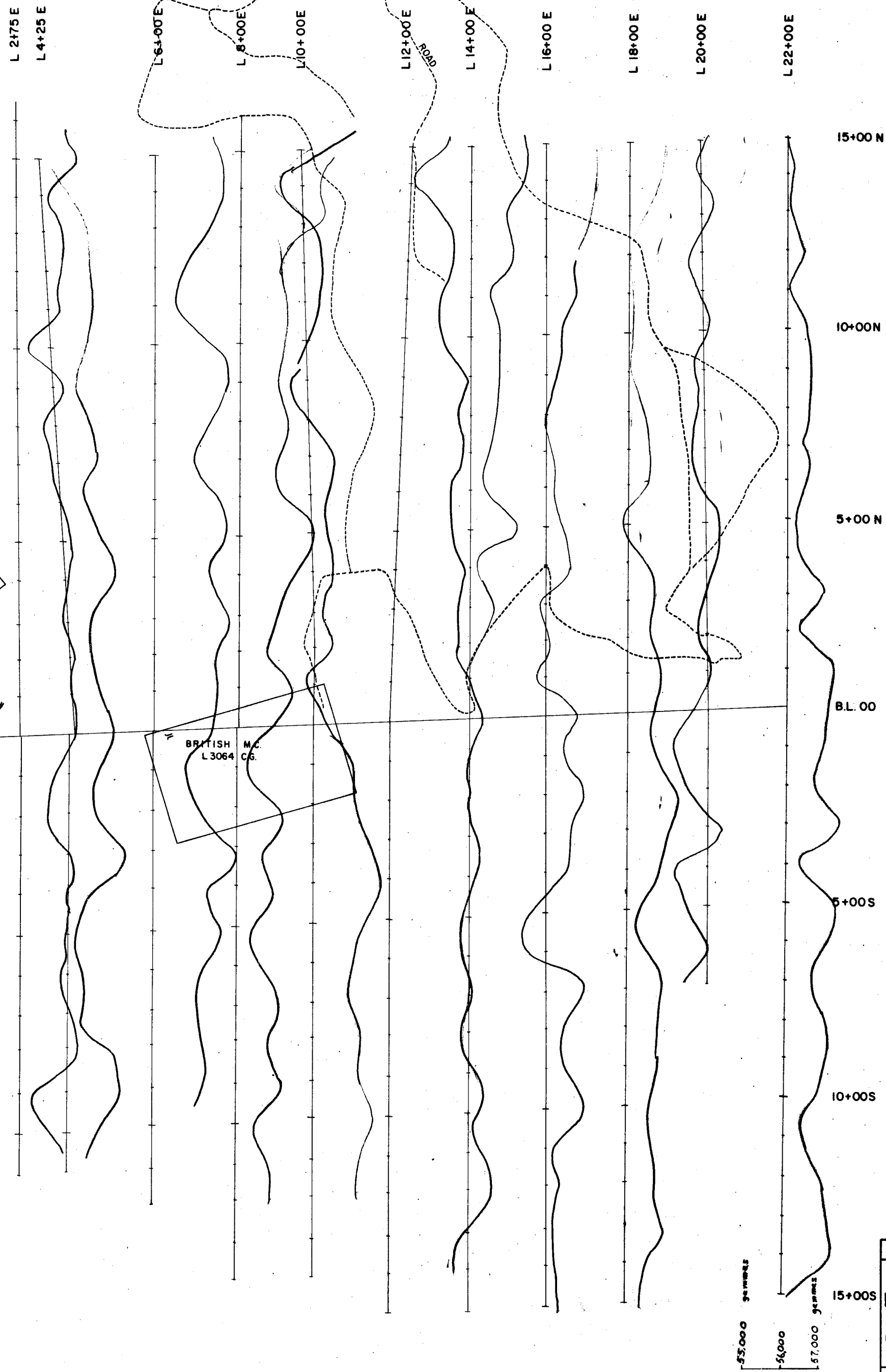
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,629**

DANKOE MINES LTD.	
UTICA PROPERTY	
<b>GEOLOGICAL MAP GRID AREA</b>	
N.T.S. 82E-4E	OSOYOOS M.D., B.C.
0 100 200 400 METRES	
SCALE 1:5000	DATE DEC. 1987
DRAWN BY: E.N.L.	FIGURE NO. 6

**LEGEND**

- ADIT
- BUILDING
- ROAD

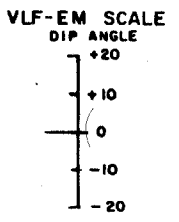


**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,629**

DANKOE MINES LTD.	
UTICA PROPERTY	
<b>MAGNETOMETER PROFILES</b>	
N.T.S. 82E-4E	OSOYOOS M.D., B.C.
0 100 200 400 METRES	
SCALE 1:5000	DATE DEC. 1987
DRAWN BY: E.H.L.	FIGURE NO. 8

**LEGEND**  
 Y ADIT  
 □ BUILDING  
 — ROAD  
 ~ CONTOUR



L 2175 E  
 L 4+25 E  
 L 6+00 E  
 L 8+00 E  
 L 10+00 E  
 L 12+00 E  
 L 14+00 E  
 L 16+00 E  
 L 18+00 E  
 L 20+00 E  
 L 22+00 E

15+00 N  
 10+00 N  
 5+00 N  
 BL 00  
 5+00 S  
 10+00 S  
 15+00 S

SILVER BELL M.C.  
 L 2393 CG.

HORN SILVER  
 L 1928 CG.

BRITISH M.C.  
 L 3064 CG.

ROAD

HIGHWAY

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**16,629**

DANKOE MINES LTD.	
UTICA PROPERTY	
<b>VLF-EM PROFILES</b>	
N.T.S. 82E-4E	OSOYOOS M.D., B.C.
0 100 200 400 METRES	
SCALE 1:5000	DATE DEC. 1987
DRAWN BY: E.N.L.	FIGURE NO. 7

