

87-310-16090  
5/21

1987 ASSESSMENT REPORT

DIAMOND DRILLING

Title: GOLDEN CROWN PROPERTY

Claims: Golden Crown, Winnipeg, Calumet, Hard  
Cash, Hecla, Joe Joe, Nabob Fr.,  
Sissy, War Cloud, Winnipeg Fr.,  
Attwood Fr., Add #1

Location: Phoenix area, Greenwood M.D.  
49° ~~05'N~~ 044' 118° ~~25'W~~ 34.3'  
N.T.S. 82E/2E

Owner: Consolidated Boundary Exploration Ltd.  
Grand Forks Mines Ltd.

Operator: Consolidated Boundary Exploration Ltd.  
Box 1739  
Grand Forks, B.C.  
VOH 1HO

Author: H. Kim, P.Geol., F.G.A.C., P.E.

Dates of Work: January 15, 1987 to February 28, 1987

Dates of Report: May 25, 1987

FILMED

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

16,090

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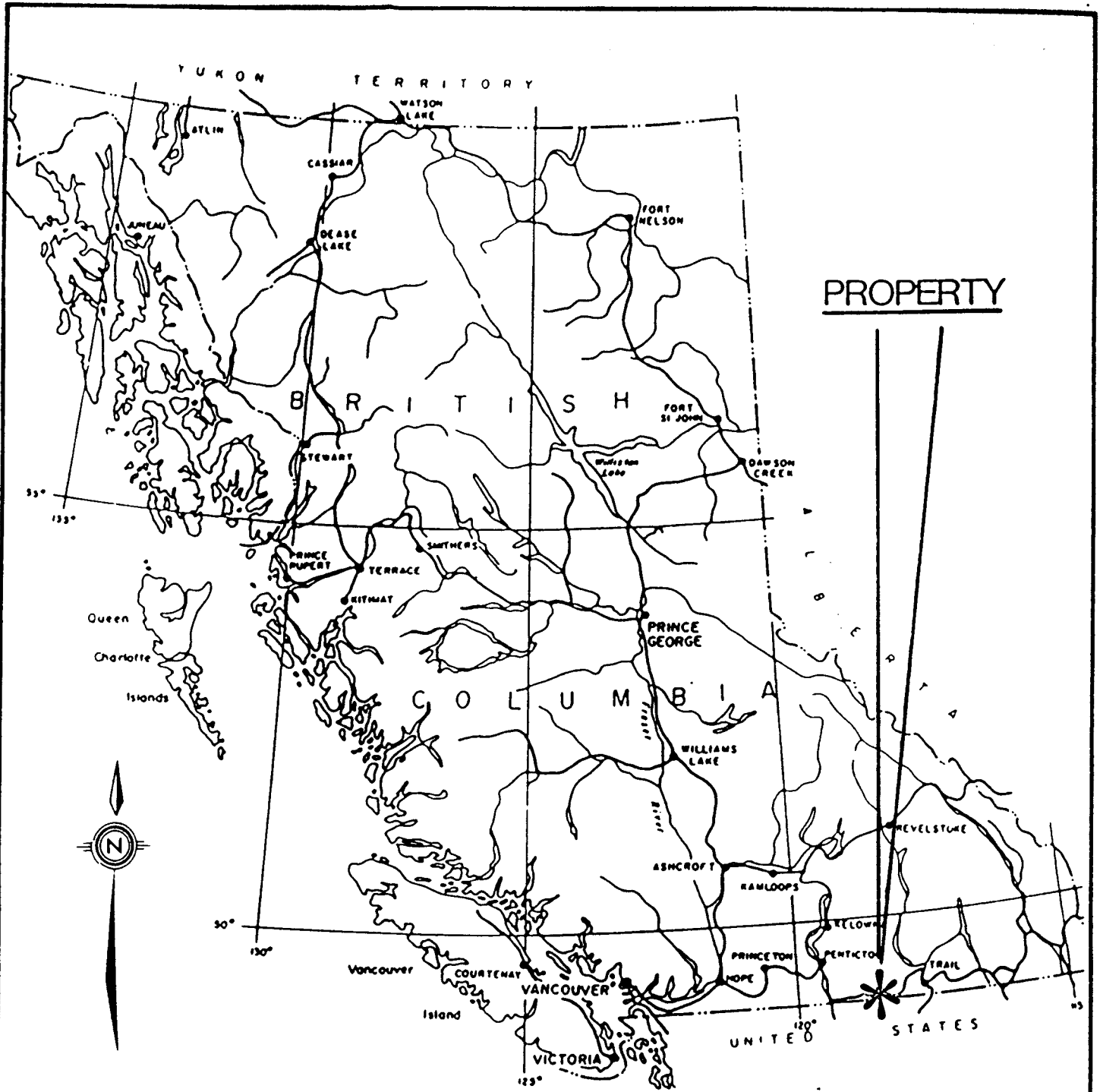
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**PROPERTY**

<b>GRAND FORKS MINES LTD.</b>				
<b>CONSOLIDATED BOUNDARY EXPLORATION LTD.</b>				
<b>GOLDEN CROWN PROPERTY</b>				
<b>LOCATION MAP</b>				
SCALE 1:6,300,000	DATE	NTS 82E-2E	JOB NO.	FIGURE 1



INTRODUCTION

During the period from January 1987 to February 28, 1987 a diamond drill program consisting of seven BQ diamond drill holes totalling 421 metres (1381 feet) was completed on the eastern sector of the GOLDEN CROWN PROPERTY. The purpose of this drilling was to locate and test the extensions of the known main gold bearing zones (Centre and Winnipeg) on the eastern edge of the property (Calumet claim) where a strike-entry drift portal is proposed (Kim, April 1987). The recommended drift is designed to reach a centre of drill indicated reserve blocks of Centre and McArthur Veins at an approximate elevation of 1277 m. The drift will be driven along the veins of high commercial interest and therefore, some production will be realized. Also, the drift will allow for shorter diamond drill holes in testing the downward extensions of the various veins.

The 1987 drilling program was managed by Consolidated Boundary Exploration Ltd. and supervised by H. Kim, P.Geol.

PROPERTY

Legal descriptions of all mining claims and tracts of land known as the "Golden Crown Property" are as follows:

A. Crown Granted Claims

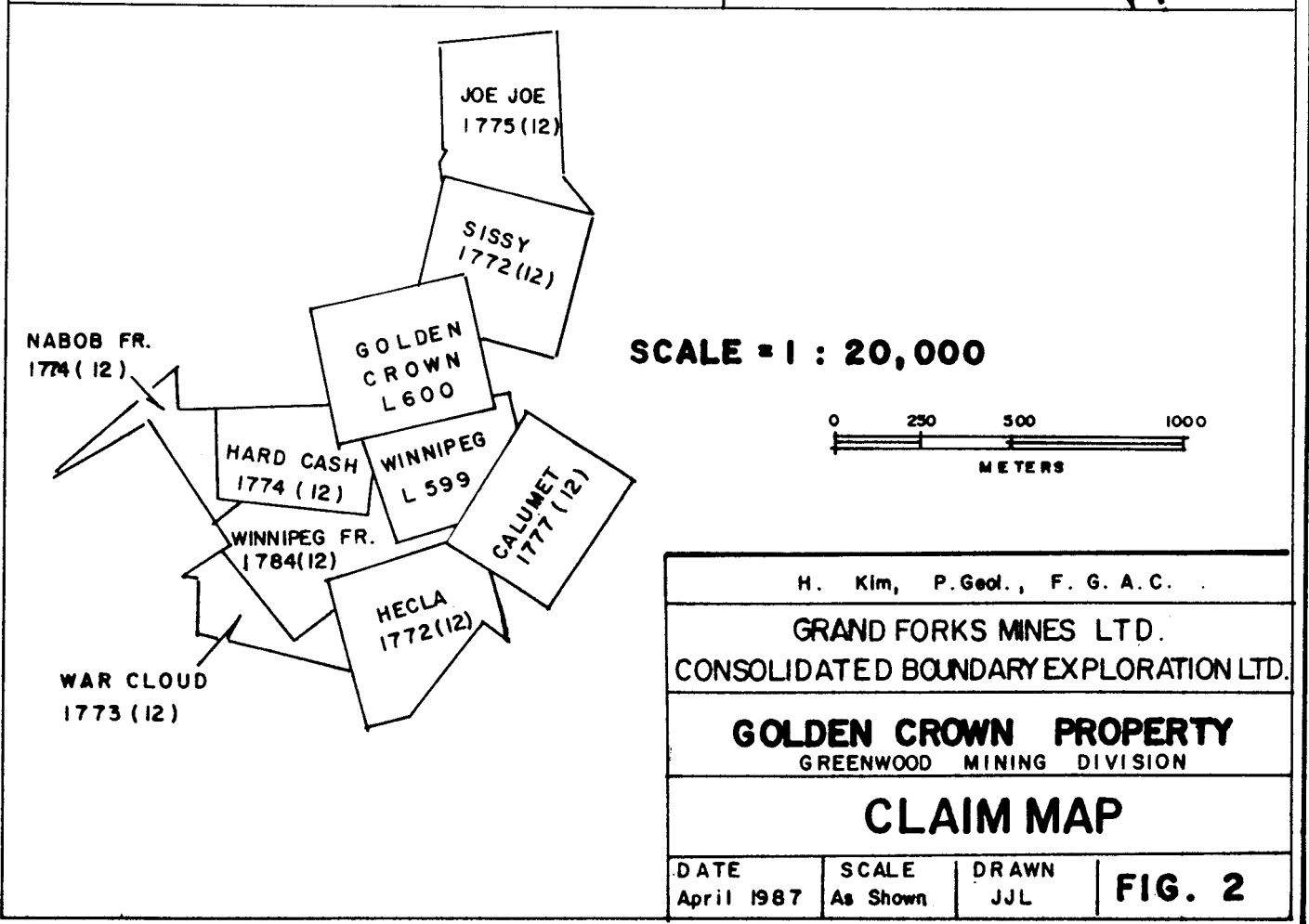
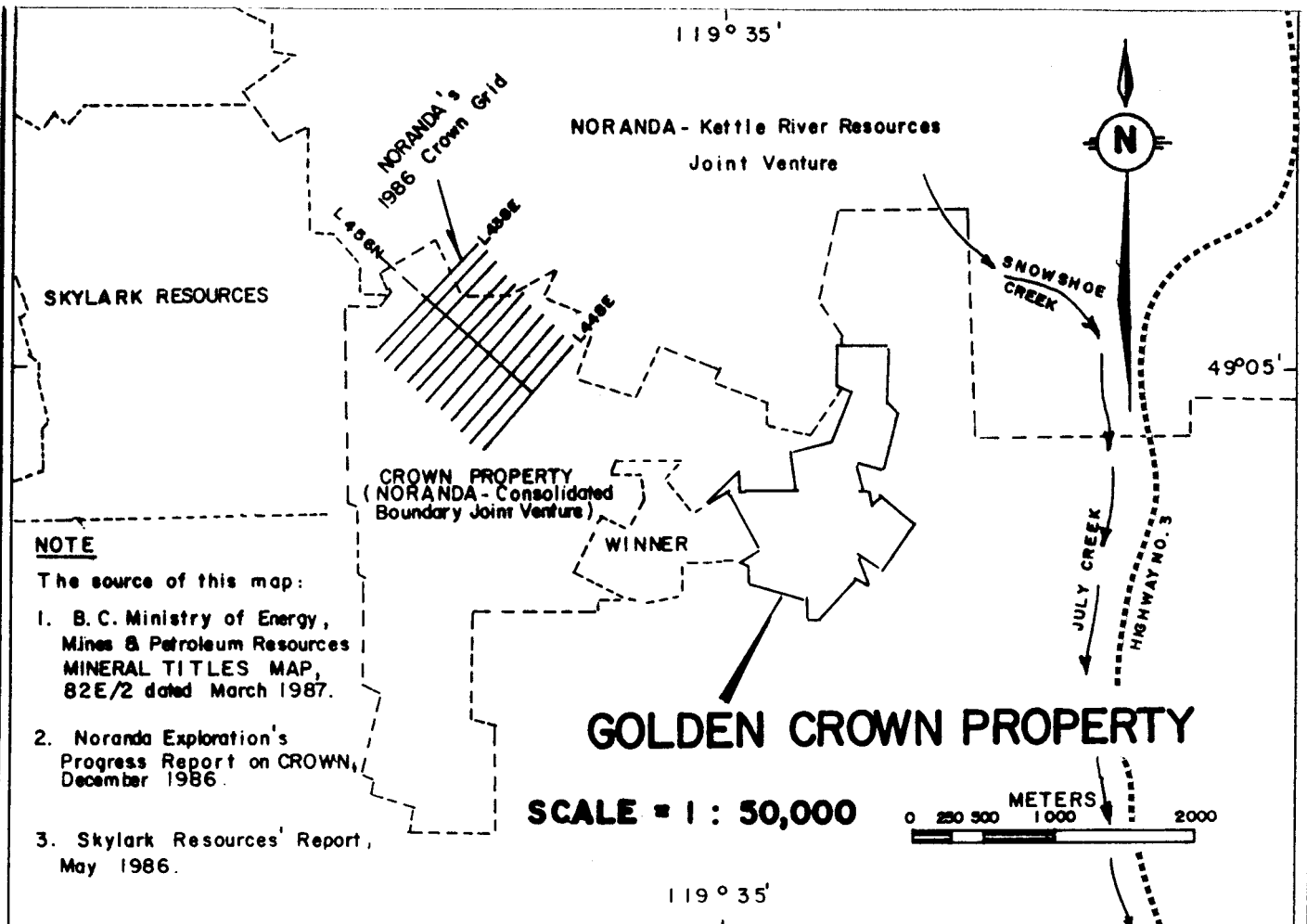
Golden Crown (Tax due July 1st)  
Winnipeg (Tax due July 1st)

B. Reverted Crown Grants

<u>Claim Name</u>	<u>Lot No.</u>	<u>Record No.</u>	<u>Expiry Date</u>
Hecla	859	1772	Dec. 12, 1992
War Cloud Fr.	1316	1773	Dec. 12, 1994
Hard Cash	1062	1774	"
Nabob Fr.	1063	1774	"
Joe Joe	7595	1775	"
Sissy	1068	1776	"
Calumet	1314	1777	"

C. Recorded claims (Two post)

Winnipeg Fr.	1784	Sept. 24, 1994
Attwood Fr.	4243	June 1988
Add #1	4615	June 1987



#### LOCATION AND ACCESS

The Golden Crown property is located in the historically renowned Boundary Mining Camp near the International border 500 kms east of Vancouver, British Columbia. It is eight kilometres east of Greenwood and three kilometres south of the formerly producing Phoenix Mine. A major center for food and industrial supplies is the city of Grand Forks with 4,000 population located 13 kms southeast of the claims.

The property is readily accessible from Highway No. 3 through an all weather black-topped road, the Phoenix Ski Hill dirt road, and through numerous other mine haulage and secondary roads. It can be reached in less than 30 minutes from Grand Forks by normal automobile transportation.

#### PHYSIOGRAPHY, CLIMATE, WATER AND POWER

The property is situated in gently rolling wooded terrain between 1250 and 1350 m above sea level within the Midway Range of the Monashee Mountains. Both the easterly flowing Skeff and the westerly flowing Lind Creeks are originated from the claims.

The climate in the area is influenced by British Columbia Interior Dry Belt with low summer precipitation and moderate winter snowfalls. Annual precipitation is approximately 45 cm. The regional temperature ranges from -15° to +40°C. The fresh snow in the area occurs by mid-November and is snow free by the end of April.

Sufficient water for all phases of exploration, mining and development would be available from water courses on or near the property.

## HISTORY

The history of the Golden Crown property dates back to 1891 when the original Winnipeg and Golden Crown claims were staked. Between then and 1905, approximately 2,438 m (8,000 ft.) of shaft sinking and drifting were completed. Underground development and ore shipment from both claims continued in 1901 to 1902 and 1910 to 1912. During the above periods, reported production from these two claims are tabulated below.

	<u>Tonnes</u>	<u>Gold</u>	<u>Silver</u>	<u>Copper</u>
Golden Crown	2,742	1,234 oz (0.45 oz/t)	2,248 oz (0.82 oz/t)	83,890 lbs (1.53%/t)
Winnipeg	58,772	11,675 oz (0.202 oz/t)	36,550 oz (0.62 oz/t)	190,617 lbs (0.16%/t)

The Winnipeg was reported to produce more ore than all other gold properties combined in the Phoenix area prior to 1912.

The property was dormant until 1965 when Sabina Mines and Scurry Rainbow initiated some geophysical work, followed by diamond drilling. Between 1965 and 1968, a total of 1,652 m were drilled in 16 B.Q. diamond drill holes. The program was directed toward exploration for nickel and chromium in the serpentine intrusive. It should be noted that the 1965-1969 Scurry Rainbow program identified massive sulphide veins in virtually all drill holes, but they did not accord them any importance or assay all intersections. (DDH number S or 68 series).

In 1976, five diamond drill holes totalling 317 m were drilled by the Golden Crown syndicate (W or 76 series).

In 1977, Con Am Resources optioned the property and drilled 12 diamond drill holes for 769 m (77-78 series).

In 1979, Boundary Exploration Ltd., former name of the present owners of the property, drilled four holes totalling 329 m (79 series).

In 1980, the property was optioned by Munde Mines. Dolmage Campbell & Associates, as contractor for Munde, carried out an exploration program consisting of surface geological mapping, chip sampling of old workings, transit survey of all the old surface workings and previous drill holes, dewatering of the Golden Crown shaft to the 30 m level, surveying and geological mapping 250 meters of the 30 m level drift and chip sampling of the 30 m level (56 samples). In addition, 16 diamond drill holes were drilled for a total of 1,564 metres. Hole depth ranged from 8.7 m to 121.3 m (80 series).

In 1983, Grand Forks Mines Ltd. optioned the property to earn a 50% interest. Since then the property has continuously been under active exploration to date. From 1983 to the present, a total of 49 holes were drilled, totalling 2,234 m (83-87 series). During this period, seven massive sulphide zones of commercial interest were discovered. In addition, diamond drilling in 16 shallow holes, 300 m south of the Golden Crown-Winnipeg area, resulted in the discovery of massive sulphide zone with significant gold values, up to 1.26 oz/ton Au over 4 ft.

Noranda Mines' most active exploration in the Greenwood Mining Division is on the Crown, which is adjacent to the west of the property and owned by Consolidated Boundary Exploration. The 1986 Noranda program on the Crown property resulted in the discovery of multiple, parallel significant mineralized structures of strong economic interest. The most impressive one is from trenching at TR. CR. 86-2, returning 1.22 oz/ton gold across 2 m (6.5 ft).

## GEOLOGY

### REGIONAL GEOLOGY

B.N. Church (1985) updates the regional geologic information and refers to the forty-three earlier publications in the Greenwood-Grand Forks map area. A 1975 geological report in the area by the writer forms a part of the references for the report by B.N. Church (1985).



Church presented twenty-two geological units in the Mount Atwood-Greenwood Area. These include metamorphic, sedimentary and intrusive and extrusive igneous rocks ranging in age from Permo-Carboniferous to tertiary that "reflect multiple episodes of deformation and igneous intrusion". The property occupies approximately a centre of this regional geological map. A portion of this map is presented in Fig.2A of this report.

Mineral deposits in the Greenwood-Grand Forks area vary, ranging from contact metasomatic skarn deposits with base metal occurrences to structurally controlled quartz veining and sulphide deposits carrying precious metal values.

#### LOCAL GEOLOGY

The property is underlain by Permo-Carboniferous to Triassic aged metavolcanic rocks and intrusive rocks. The predominant rock types on the claims are green to dark green metavolcanic rocks.

The metavolcanics in the area have been generally termed greenstone, which is known to be of andesitic to basaltic composition and in places has been metamorphosed and recrystallized into amphibolite and amphibolitic schist (green schist). The greenstones include both flow and tuffaceous textures. The tuffaceous greenstones contain subrounded to angular cherty fragments of various sizes.

The igneous intrusion of Triassic age was shown as map unit "A" (old diorite) and "B" (microdiorite) by Church (1985). Based on the actual core logging, the intrusive is of dioritic to tonalitic composition and appears as very irregular dykes or stocks. The rocks are commonly equigranular, fine to coarse grained and contain euhedral feldspar and hornblende phenocrysts in a light grey to green matrix. Most of them are richly disseminated by pyrite.

Serpentinized ultramafic rocks of Cretaceous age (Church 1985) occur extensively in the area which the Athelstan-Jackpot mine is located, about 2 km southeast of the property. A small body of serpentine also outcrops on the Golden Crown claim. Based on the results of diamond drilling for more than 80 holes, the serpentine lies as sill-like body below the greestone in the entire Golden Crown and possibly the Winner Claim, neighbouring property to the west.

B.N. Church (1985) indicates that major north-west block faults disrupt the entire property area and surrounding claims and possible syngenetic shearing (fissure) is expressed in predominantly parallel north-west shears (Fig.2A). Whether these block faults have provided conduits for mineralizing hydrothermal solution is not defined. However, in this respect, Church (1985) gives the following note related to mineralization in his map area: "It is conceivable that the intricate and extensive fissure system of the Mt. Attwood-Phoenix area as above shown in part on the accompanying map, provided the necessary chanelways leading metalliferous solutions to the ore deposits. In this model the igneous intrusions served principally as heat engines in the process of convection and dispersion of the solutions."

#### MINERALIZATION

Precious metal mineralization on the property occurs as fissure fillings and replacement veins along several parallel to subparallel, northwest trending structures hosted in greenstone and diorite. Based on surface and drill intersections, the precious metal values are associated only with massive sulphides comprising pyrrhotite, with minor pyrite and chalcopyrite, although not all massive sulphides are auriferous. Most of drill-intersected quartz veins on the property are very low in gold values or almost non gold-bearing.

The 30 m level of the Golden Crown Mine was dewatered, mapped and sampled by Dolmage Campbell & Associates in 1980. The results of this investigation indicate that the ore shoot (stopping) of commercial interest in the drift is about 55 m long and centred near the Golden Crown shaft. A total of 56 chip samples were picked from the 30 m level. The assay results of these samples are not considered to be representative of the Main Golden Crown Vein, since the vein of commercial interest has already been stoped out in the past, leaving only pillars of sub-economic values in the drift.

1987 DIAMOND DRILLING

Seven BQ diamond drill holes were completed in the Calumet claim for a total of 421 metres. The purpose of these holes was to locate and test the extension of the former productive Winnipeg vein in the vicinity of the proposed portal site of vein-drift tunnelling (Kim, April 1987).

Particulars of the 1987 drill holes are as follows:

<u>Hole No.</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Length</u>	
			<u>feet</u>	<u>metres</u>
87-18	30°	-65°	173	52.7
87-19	30°	-50°	249	75.8
87-20	30°	-70°	146	44.5
87-21	30°	-50°	216	65.8
87-22	30°	-60°	213	64.9
87-23	30°	-60°	294	89.6
87-24	30°	-60°	91	27.7

Although massive sulphide mineralization persists on the eastern edge of the property, gold values were poor; the best being in hole 87-21 at .236 oz/ton over 0.2 ft. and .134 oz/ton over 0.5 ft.

The results of the sulphide intersections are summarized as follows:

<u>Hole No</u>	<u>Intercept</u> (ft)	<u>Width</u> (ft)	<u>Remarks</u>
87-18	79.1 - 94.0	4.9	Massive pyrrhotite-pyrite, insignificant gold values pyrrhotite-quartz; .081 oz/t gold, .17% Cu pyrrhotite & pyrite, insignificant gold values
	105.3 - 107.0	1.7	
	111.3 - 111.7	0.4	
87-19	73.2 - 74.0	0.8	pyrrho. & py; insignif. gold values solid pyrrho; .43% Cu
	81.5 - 83.5	2.0	
87-20	53.5 - 54.5	1.0	Qtz & pyrrho; insignif. gold values py. & pyrrho; insignif. gold values pyrrho. & qtz; insignif. gold values pyrrho. & py; .22% Cu.
	79.3 - 79.5	0.2	
	98.0 - 98.5	0.5	
	118.8 - 119.4	0.6	

*Some of the core is stored at the drill site(s), and the company warehouse in Grand Forks.*

<u>Hole No</u>	<u>Intercept</u> (ft)	<u>Width</u> (ft)	<u>Remarks</u>
87-21	70.0 - 71.0	<del>0.5</del> 1.0	pyrrho. & py.; .134 oz/t Au solid pyrrho.; .04 oz/t Au; .15% Cu solid pyrrho.; .04 oz/t Au. pyrrho. & py; .236 oz/t Au; .13 oz/t Ag; .16% Cu. Apparent sulphide zone; zero core recovery
	83.0 - 83.3	0.3	
	130.0 - 131.5	1.5	
	182.0 - 182.2	0.2	
	197.0 - 204.0	7.0	
87-22		No sulphide intersection due to apparen transverse faulting.	
87-23	0 - 12.8	12.8	Significant loss of core recovery. pyrrho, py & chaclopyrite. Not assayed pyrrho. & py. 50% not assayed pyrrho. & py. minor chalcopyrite. Not assayed
	25.5 - 29.0	3.5	
	36.0 - 37.5	1.5	
87-24		No sulphide intersection.	

### CONCLUSIONS

1. To date a total of 24,970 ft. consisting of 131 BQ diamond drill holes were completed on the Golden Crown property.

Based on previous reports and the findings from recent exploration operations, the property is proven to have two former productive veins, the Winnipeg and Main Golden Crown Veins and seven newly discovered mineralized zones, including the Golden Crown North, Golden Crown South, G.C. 1, G.C.2, Centre Vein, McArthur and Ike Veins.

Of the 131 diamond drill holes on the property, 99 holes were concentrated within 400 m along strike, surrounding the Winnipeg and Main Golden Crown Veins, leading to the discovery of the aforementioned seven mineralized zones.

2. The most important exploration program, yielding significant results, was achieved from 1983 to the present. During this period, seven other mineralized zones, in addition to the Winnipeg and the Main Golden Crown Veins, were discovered by diamond drilling. An estimated 77,602 tons averaging 0.44 oz/ton gold, 0.513 oz/ton silver and 0.66% copper has been drill indicated along the 9 known mineralized zones.
3. The 1987 exploration diamond drilling was successful in locating the extension of the known pyrrhotite-pyrite structures on the eastern limit of the Golden Crown property. Of seven holes drilled five holes resulted in solid massive sulphide intersections up to 4.9 ft. Gold values in the drill tested locations were poor, but these do not preclude the recommended drifting program northwesterly to reach a centre of the known mineralized zones for a more detailed exploration, augmentation of the proven reserves, partial and productive mine operation and development.

#### RECOMMENDATIONS

It is recommended that the following works be implemented, prior to or concurrent with the recommended drifting (Kim, April 1987).

- a) Transit survey
- b) Completion of detailed relogging of old drill holes, specifically 1980 holes, to establish any geological control of the vein systems of commercial interest
- c) Shallow diamond drilling to test extensions of the Golden Crown North, South, Golden Crown Zone 1 and 2 Veins.
- d) Preliminary metallurgical testing of the cored massive sulphides

SELECTED REFERENCES

- CHURCH, B.N. 1985 - Geology and Mineralization in the Mount Attwood-Phoenix Area, Greenwood, B.C. Notes to accompany preliminary Map No.59  
\* Map Scale = 1:25,000
- DAWSON, B.N. 1982 - Report on the Sylvester K. Property, Greenwood Mining Division, B.C., Corporate Report for Kettle River Resources Ltd.
- KIM, H. 1975 - Geology of the quadrangle between Midway and Grand Forks; The Granby Mining Company Ltd. report.
- KIM, H. 1986 - Complementary Report on A Recommended Exploration Program on the Golden Crown property for Grand Forks Mines Ltd  
  
- April 1987, Golden Crown Property, Summary Geological Report and Recommended Tunnelling Program
- LEROY, O.E. 1912 - Geological Survey of Canada Memoir No. 21
- LITTLE, H.W. 1983 - Geology of the Greenwood Map-Area G.S.C. \* 79-29 \* Map Scale = 1:5000
- McNAUGHTON, D.A. 1945 - Greenwood-Phoenix Area, B.C. G.S.C. \* paper 45-20 \* Map Scale = 1 in. to 800 ft.
- MINDEP FILES - Computer retrieval mineral inventory files on B.C. incl. entries 82E/SE 001 (Providence) and 82E/SW 020-028 (Phoenix). B.C. Ministry of Energy, Mines and Petroleum Resources.
- NORANDA MINES - December 1986 progress report on the Crown Property (Results of Drilling and Trenching).
- NEWS RELEASE - Consolidated Boundary Exploration Ltd. - Grand Forks Mines Ltd. Joint venture on Golden Crown property December 12, 1986

PAXTON, J. 1980 - Mining potential of the Phoenix Area, Grand Forks, B.C., unpublished report.

PHENDLER, R.W. 1980 - Preliminary Report on the Keno property, Greenwood Mining Division for Kalco Mines Ltd.

SAUNDERS et al (1980) - Geological and Diamond Drilling Report on the Golden Crown Property for Mundee Mines (Dec. 1980).

SCURRY RAINBOW (1969) - Drilling Report on the Golden Crown Area for Sabina Mines (March 1969)

SOOKOCHOFF, L. (1984-1986) - Ass. Rept. Diamond Drilling, Golden Crown Property for Consolidated Boundary Explorations Ltd.

TAYLOR, D.P. (1984) - Report of the Geology of Legal Tender, Buena Vista Fr., Wren, Black Bear Fr., Bank of England Fr., Ranger, Reverted Crown grants and the Nova claims, Greenwood Mining Division for Scotia Resources Ltd.

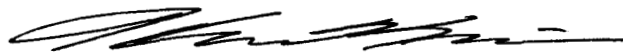
WARES, R. (1985) - Report on Golden Crown and Winnipeg property.

8.0 CERTIFICATE

I, Hun Kim, with a business address in the city of Vancouver, B.C. do hereby certify that:

1. I am a consulting geologist and registered in the Geological Association of Canada (Registration #F1309).
2. I am a registered, licensed member, in good standing, of the Association of Professional Engineers, Geologists and Geophysicists in the Province of Alberta (Registration #5848).
3. I am a graduate of Seoul University (1958) holding a B.Sc. degree in Geology and completed one year of post graduate studies for a Master of Science degree (1960).
4. I have practised my profession for 16 years in Canada, and for 7 years in foreign countries per US Agency of International Development overseas project for the U.N. and assessed about 200 different metallic and non-metallic mines and properties including 104 precious metal deposits.
5. I have been a mine geologist with Granby Mining's Phoenix Division near the property for several years prior to 1977. This report is based on the writer's recent visit to the property between September 13 and September 29, 1986 plus available maps and reports from government and private sources on the region.
6. I have no interest, direct nor indirect, in the properties described herein, or in the securities of any company involved, nor do I expect to receive any interest in the future.
7. That I hereby give my consent to Consolidate Boundary Exploration Ltd. to reproduce this report or any part thereof for financing purposes; provided, however, that no portion may be used out of context in such a manner as to convey a meaning which differs from that set out in the whole.

Vancouver, B.C.  
May 25, 1987



H. Kim, P.Geol., F.G.A.C.  
Consulting Geologist



CERTIFICATE OF EXPENSE

The diamond drill program on the Golden Crown Property was carried out from January 15, 1987 to February 28, 1987 to the value of the following:

Diamond drilling BQ 1381 ft (87-18 to 87-24) @ \$20.00/ft	\$27,620
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APPENDIX I

ASSAY SHEETS

Golden Crown

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: MAR 4 1987

DATE REPORT MAILED: *Mar 9/87*.....

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.HG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: CORE AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. C. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

CONSOLIDATED BOUNDARY

FILE # 87-0565

PAGE 1

SAMPLE#	Cu PPM	Ag PPM	Au* PPB
2142	30	.1	14
2143	535	1.1	660
2144	294	.3	95
2147	127	.1	14
2148	76	.1	25
2150	86	.1	7
2151	61	.1	9
2152	3	.1	11
2153	71	.1	3
STD C/AU-R	58	6.9	510

CONSOLIDATED BOUNDARY

FILE # 87-0565

PAGE 2

SAMPLE#	Ni PPM	Co PPM	Cr PPM	Au** PPB	Pt** PPB
2112	1557	67	903	2	12
2113	637	50	495	3	22
2114	921	101	475	4	18
2115	950	77	343	5	26
2138	1346	63	594	1	9
2139	1163	66	724	1	13
2140	1114	60	693	2	9
2141	1014	52	1156	4	10
2159	1403	28	789	7	8
2160	1700	57	736	12	3
STD C/FA-5X	68	29	58	99	101

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE: 251-1011

DATE RECEIVED: MAR 4 1987

DATE REPORT MAILED:

*Mar 9/87...*

### ASSAY CERTIFICATE

SAMPLE TYPE: CORES AU\*\* AND AG\*\* BY FIRE ASSAY

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER.

CONSOLIDATED BOUNDARY

FILE # 87-0565A

PAGE 1

SAMPLE#	Cu %	Ag** OZ/T	Au** OZ/T
2101	.05	.01	.003
2102	.06	.01	.005
2103	.02	.01	.001
2104	.04	.01	.001
2105	.11	.01	.005
2106	.05	.01	.019
2107	.10	.01	.059
2108	.11	.04	.011
2109	.16	.03	.002
2110	.17	.01	.081
2111	.27	.03	.001
2116	.01	.01	.001
2117	.01	.01	.001
2118	.06	.01	.003
2119	.02	.01	.001
2120	.43	.02	.002
2121	.01	.02	.001
2122	.01	.01	.001
2123	.01	.01	.001
2124	.04	.02	.006
2125	.01	.02	.001
2126	.01	.02	.002
2127	.06	.05	.009
2128	.01	.02	.001
2129	.03	.02	.002
2130	.02	.01	.001
2131	.05	.02	.016
2132	.04	.02	.002
2133	.01	.02	.001
2134	.01	.02	.008
2135	.02	.03	.002
2136	.05	.01	.001
2137	.22	.13	.001
2145	.08	.06	.134
2146	.02	.02	.025
2149	.15	.12	.040

SAMPLE#	Cu %	Ag** OZ/T	Au** OZ/T
2154	.06	.04	.010
2155	.01	.01	.001
2156	.05	.04	.006
2157	.02	.04	.001
2158	.16	.13	.236

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE: 251-1011

DATE RECEIVED: MAR 4 1987

DATE REPORT MAILED:

*May 9/87...*

### ASSAY CERTIFICATE

SAMPLE TYPE: CORES AU\*\* AND AG\*\* BY FIRE ASSAY

ASSAYER: *Deane* DEAN TOYE. CERTIFIED B.C. ASSAYER.

CONSOLIDATED BOUNDARY

FILE # 87-0565A

PAGE 1

SAMPLE#	Cu %	Ag** OZ/T	Au** OZ/T
2101	.05	.01	.003
2102	.06	.01	.005
2103	.02	.01	.001
2104	.04	.01	.001
2105	.11	.01	.005
2106	.05	.01	.019
2107	.10	.01	.059
2108	.11	.04	.011
2109	.16	.03	.002
2110	.17	.01	.081
2111	.27	.03	.001
2116	.01	.01	.001
2117	.01	.01	.001
2118	.06	.01	.003
2119	.02	.01	.001
2120	.43	.02	.002
2121	.01	.02	.001
2122	.01	.01	.001
2123	.01	.01	.001
2124	.04	.02	.006
2125	.01	.02	.001
2126	.01	.02	.002
2127	.06	.05	.009
2128	.01	.02	.001
2129	.03	.02	.002
2130	.02	.01	.001
2131	.05	.02	.016
2132	.04	.02	.002
2133	.01	.02	.001
2134	.01	.02	.008
2135	.02	.03	.002
2136	.05	.01	.001
2137	.22	.13	.001
2145	.08	.06	.134
2146	.02	.02	.025
2149	.15	.12	.040

SAMPLE#	Cu %	Ag** OZ/T	Au** OZ/T
2154	.06	.04	.010
2155	.01	.01	.001
2156	.05	.04	.006
2157	.02	.04	.001
2158	.16	.13	.236



ACME ANALYTICAL LABORATORIES  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: MAR 23 1987

DATE REPORT MAILED: *Mar 27/87*

### GEOCHEMICAL/ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN FE CA P CR NB BA TI B AL NA K W SI ZR CE SN Y NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM

- SAMPLE TYPE: Core PT\*\* ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE. AG\*\* AND AU\*\* BY FIRE ASSAY

ASSAYER: *D. Toy* DEAN TOYE, CERTIFIED B.C. ASSAYER

CONSOLIDATED BOUNDARY File # 87-0760

SAMPLE#	NI PPM	CR PPM	PT** PPB	AG** OZ/T	AU** OZ/T
2169	-	-	-	.05	.008
2170	1295	968	4	-	-
2171	1482	1021	10	-	-
2172	-	-	-	.01	.004

ACME ANALYTICAL LABORATORIES  
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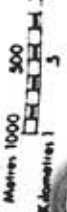
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ASSAYER: *D. Toye*. DEAN TOYE, CERTIFIED B.C. ASSAYER

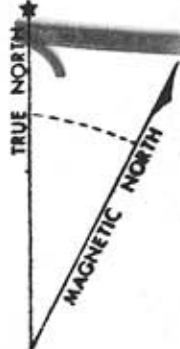
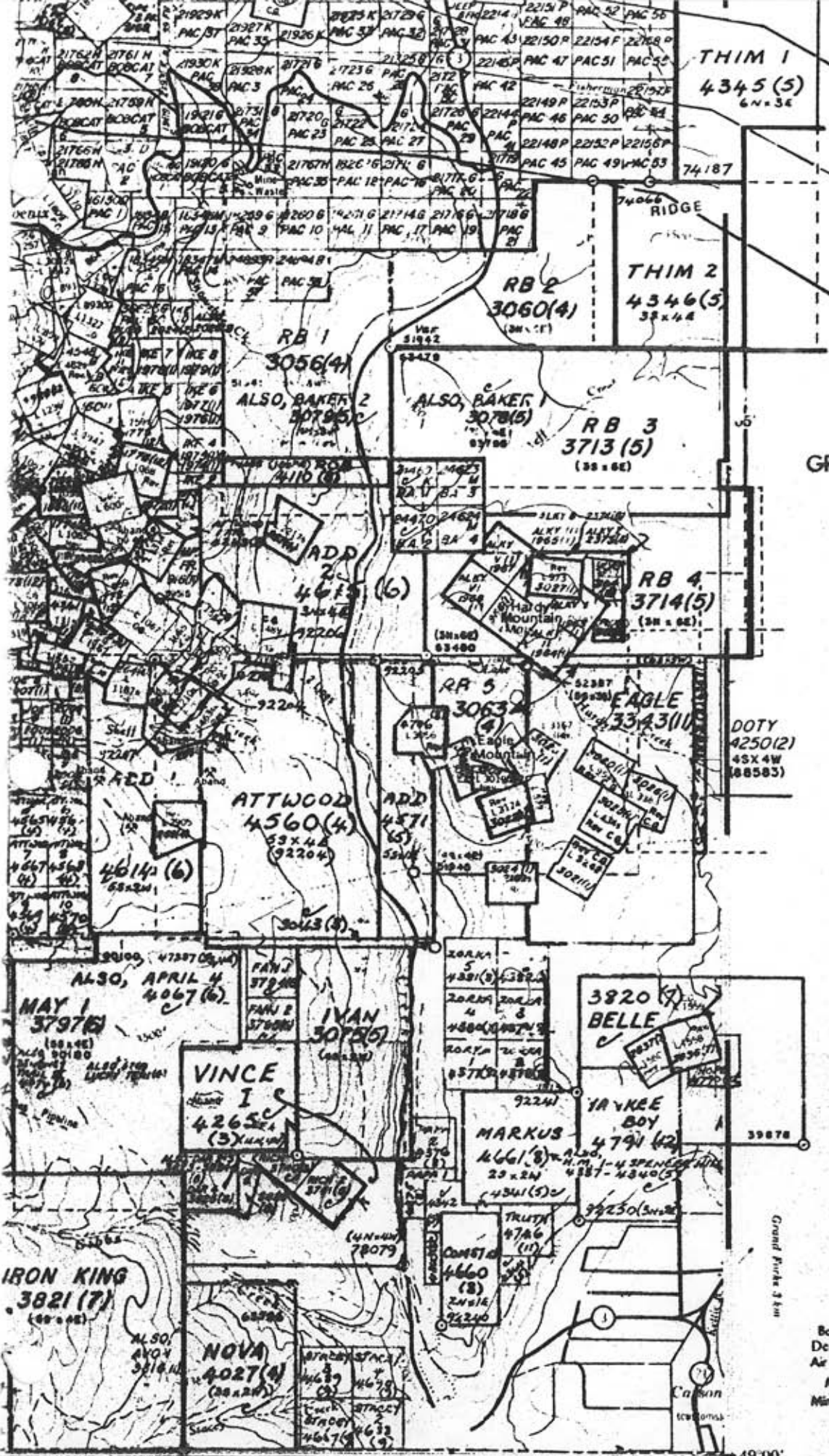
CONSOLIDATED BOUNDARY File # 87-0760

SAMPLE#	NI PPM	CR PPM	PT** PPB	AG** OZ/T	AU** OZ/T
2169	-	-	-	.05	.008
2170	1295	968	4	-	-
2171	1482	1021	10	-	-
2172	-	-	-	.01	.004



# 16,090

GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
EAST HALF  
M 82E/2  
GREENWOOD MINING DIVISION



Use diagram only to obtain numerical values  
APPROXIMATE MEAN DECLINATION

Annual change decreasing

CONTOUR INTERVAL 100 FEET  
(30.48 metres)

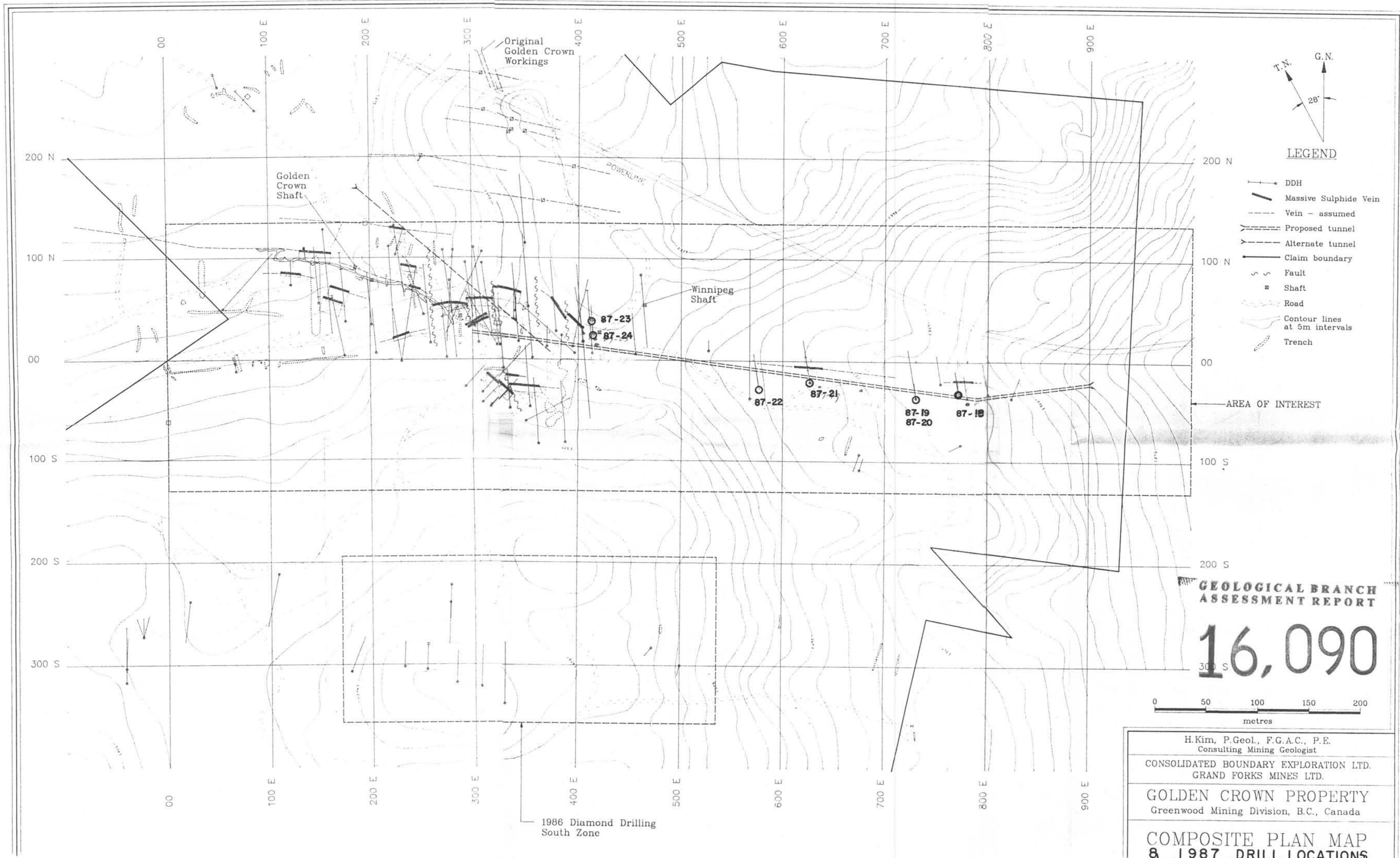
Transverse Mercator Projection

82E 6	82E 7	82E 8
82E 3	82E 2	82E 1
USA	USA	USA

INDEX TO ADJOINING SHEETS OF  
THE NATIONAL TOPOGRAPHIC SYSTEM

Grand Forks 3 km

Base map supplied by the Surveys and Mapping Branch  
Department of Energy, Mines and Resources, Ottawa.  
Air photographs dated 1975.  
Mineral Titles Map prepared 5/79 by Titles Division  
Mineral Resources Branch, Victoria, B.C.



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**16,090**

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Consulting Mining Geologist  
CONSOLIDATED BOUNDARY EXPLORATION LTD.  
GRAND FORKS MINES LTD.  
GOLDEN CROWN PROPERTY  
Greenwood Mining Division, B.C., Canada  
**COMPOSITE PLAN MAP  
& 1987 DRILL LOCATIONS**