

5998

CANADIAN SUPERIOR EXPLORATION LIMITED

DIAMOND and PERCUSSION DRILLING REPORT

on the

COMET PROPERTY

#5998

September 15, 1976

DM, NORMA

92I/9W

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

NO. 5998

CANADIAN SUPERIOR EXPLORATION LIMITED

DIAMOND and PERCUSSION DRILLING REPORT

on the

COMET PROPERTY

LOCATION: 5 miles West of Kamloops, B.C.

Lat. 50°40' Long. 120°27'

N.T.S. 92 I/9W

CLAIM NAMES:

DM 55 to 57, 61 to 64, 71, 73, 75, 77, 96 to 99,  
120, 121, 124, DM 2, 3, 5, 94, 95, and 99 Fractions,  
LORNA 1 to 4, AUDRA 1 Fraction, RO 5, 7 to 10, 11  
to 26, 47 to 52, 61, 63 to 65, EB 1 to 12, 14 to  
19, ID 3, 5, 6, and 16 Fractions, A 1 to 10, 12,  
13, 15, 16, A 1 to 3 Fractions, AA 1 and 2, REX 4  
to 7 Fractions, DELLA 2 Fraction, DEN 4 and 5  
Fractions, JAN 1 to 3, JAN 4 to 8 Fractions, MRO  
1 to 8 and 10 to 14 Fractions, IRON CAP (Mineral  
Lease M-21), ERIN FR. (Lot 1066), NORMA (Lot 1302),  
IRON MASK (Lot 878), SUNRISE (Lot 879), COPPER QUEEN  
(Lot 880), CIVIL FR. (Lot 1068), VICTOR (Lot 1340),  
MINT FR. (Lot 1342), EARNSCLIFF FR. (Lot 1301),  
EMORY (Lot 1050), NIGHTHAWK (Lot 1747), LUCKY STRIKE  
(Lot 1036), JUMBO FR. (Lot 1067), CHAMPION NO. 1  
(Lot 5622), CHAMPION NO. 2 (Lot 5623), LS 6 (Lot  
5624), LS 7 (Lot 5625), LS 8 (Lot 5628), LS 9  
(Lot 5629), LS 10 (Lot 5627), LS 11 (Lot 5626),  
WINTY (Lot 4667), CON VERDANT (Lot 1341), MAY FR.  
(Lot 1311), SODIUM FR. (Lot 4666).

WORK PERIOD: JULY 1 to SEPTEMBER 4, 1976

J.D. Blanchflower, B.Sc.  
Kamloops, British Columbia  
September 15, 1976

TABLE OF CONTENTS

SUMMARY

COST STATEMENT

DRILL LOGS

Diamond Drill Hole Logs

Percussion Drill Hole Data

ILLUSTRATIONS:

Location Map (1 : 50,000)

Drill Hole Plan (1" = 400')

## SUMMARY

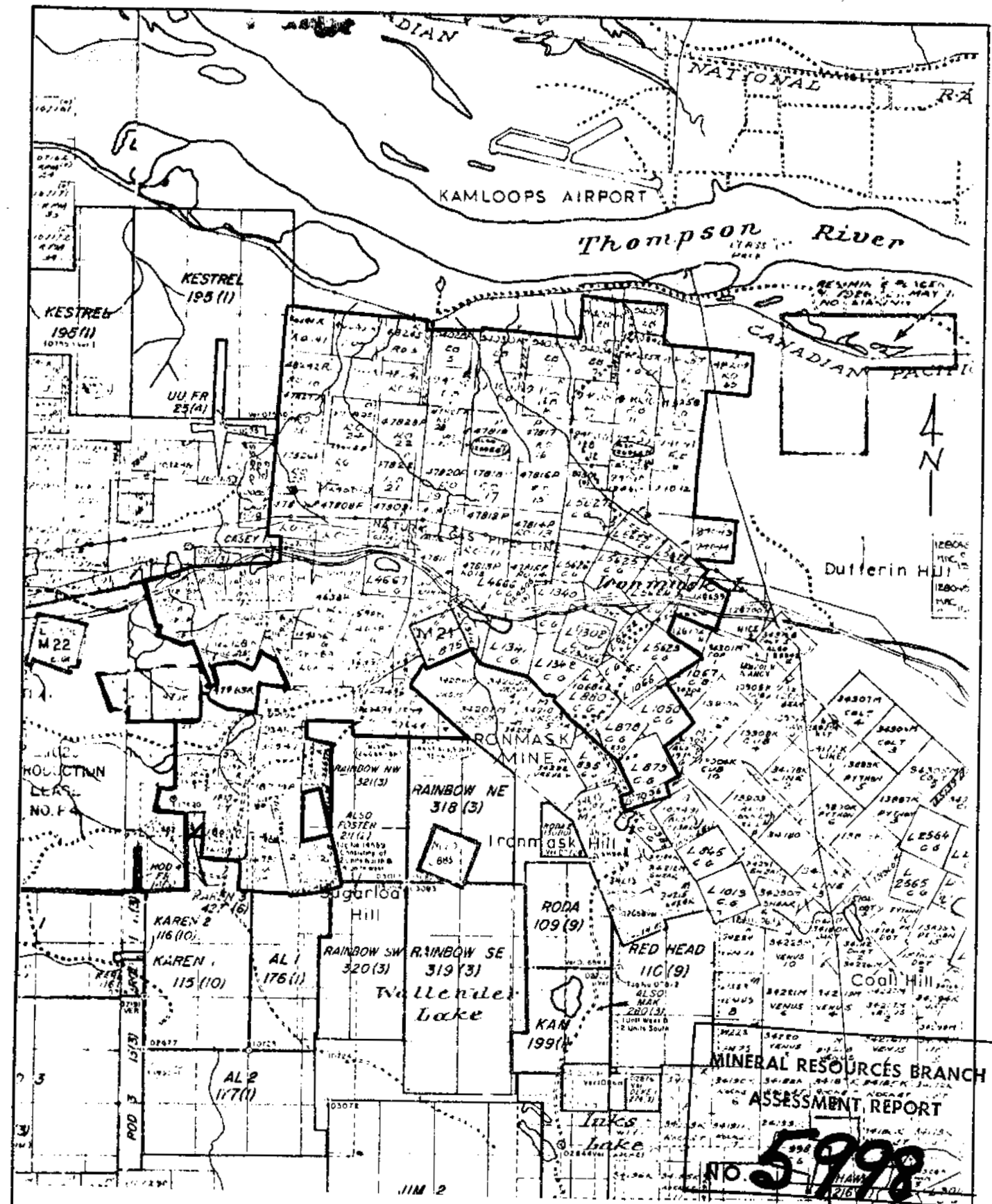
The Comet property is an irregularly - shaped block of mineral claims measuring approximately 3 miles by 2.5 miles located on the western boundary of the City of Kamloops in south central British Columbia. On April 1, 1976 Canadian Superior Exploration Limited negotiated the rights of mineral exploration from the property owners: Comet Industries, Initial Developers, and Davenport Industries.

The property consists of 103 located mineral claims, 25 Crown granted mineral claims and 1 mineral lease. All located mineral claims and 7 Crown granted mineral claims have been grouped into Comet A, Comet B, and Comet C groups of mineral claims.

Previous work has included: underground mining, magnetometer surveys, I.P. surveys, geochemical surveys, geological mapping, and over 100,000 feet of combined diamond, rotary and percussion drilling.

The present property covers many old showings including Lucky Strike, Iron Mask, Erin, Larsen, Iron Cap, and DM. Copper mineralization occurs along the northeastern edge of the Upper Triassic Iron Mask batholith where either major fault structures have deformed dioritic and serpentized basaltic rocks or where microdiorite and micromonzonite porphyry has intruded.

Typical alteration products in the area of chalcopyrite mineralization include epidote, chlorite, potassic feldspar and albite.



scale: 1 : 50,000

0 .5 1 1.5 2 Miles

0 1000 2000 3000 Meters

CANADIAN SUPERIOR EXPLORATION LIMITED

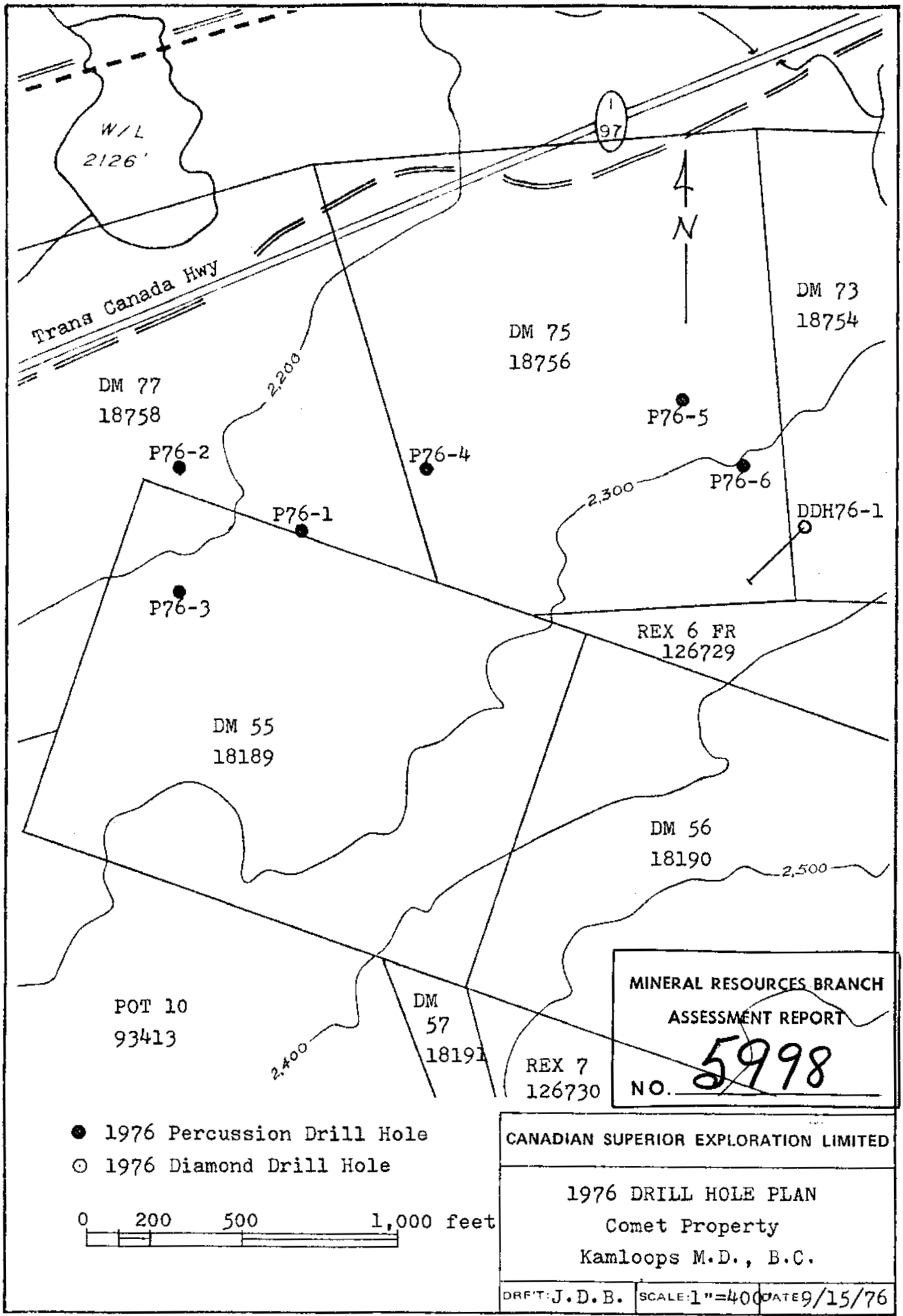
LOCATION MAP  
Comet property  
Kamloops M.D., B.C.

DRAFT J.D.B.

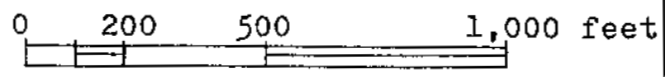
SCALE:

DATE: 9/15/76

During 1976 Canadian Superior undertook a percussion and diamond drilling program involving 19 percussion drill holes totalling 5,580 feet plus 13 diamond drill holes totalling 7,786 feet. The purpose of this program was to evaluate known mineralized showings and test anomalous areas not previously drilled. Work was contracted to H.N. Horning Percussion Drilling Ltd. and J.T. Thomas Diamond Drilling Limited. Total cost of the project for 1976 is approximately \$120,000.



- 1976 Percussion Drill Hole
- 1976 Diamond Drill Hole

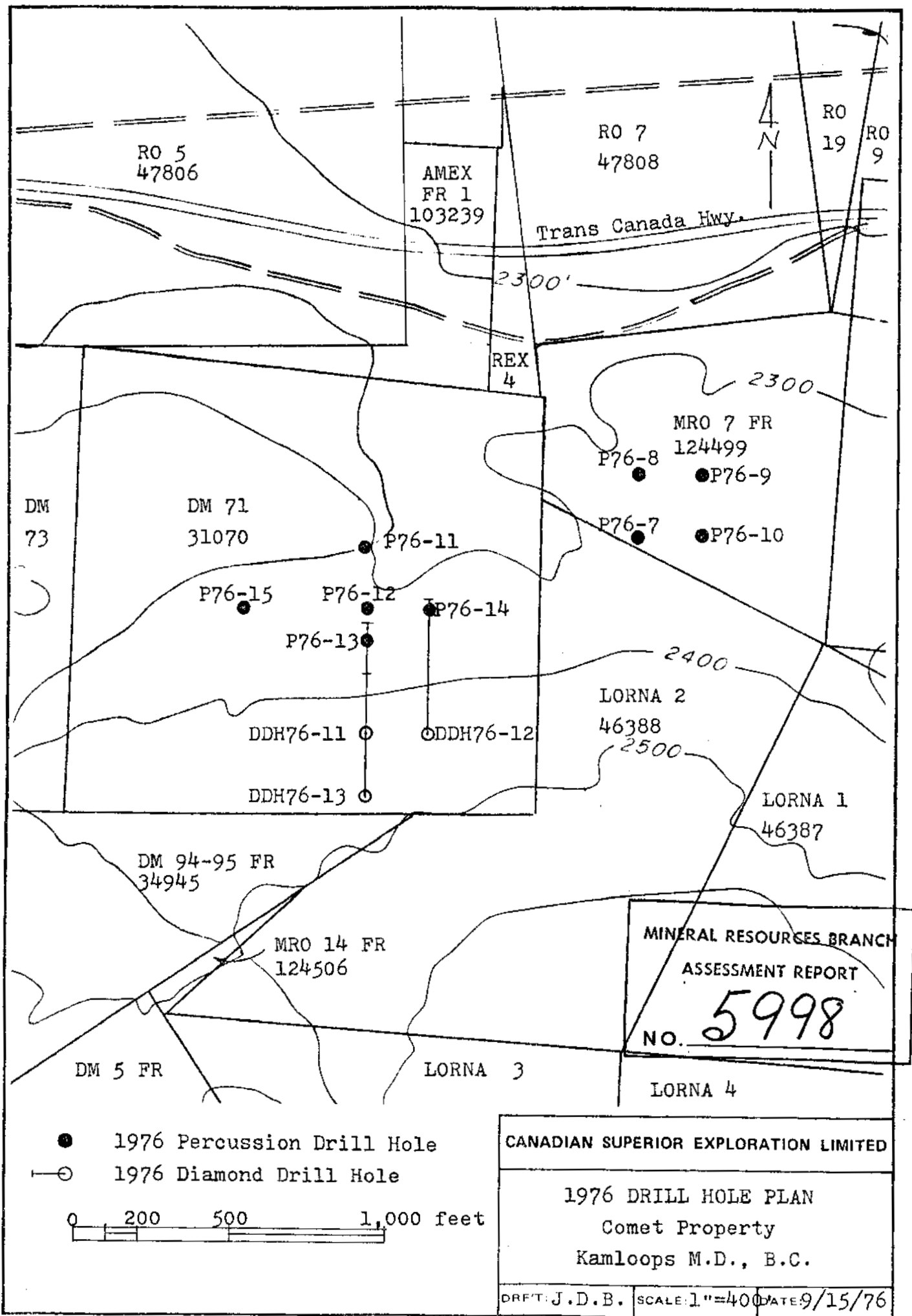


MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
 NO. **5998**

CANADIAN SUPERIOR EXPLORATION LIMITED

1976 DRILL HOLE PLAN  
 Comet Property  
 Kamloops M.D., B.C.

DRAFT: J.D.B. SCALE: 1"=400' DATE: 9/15/76



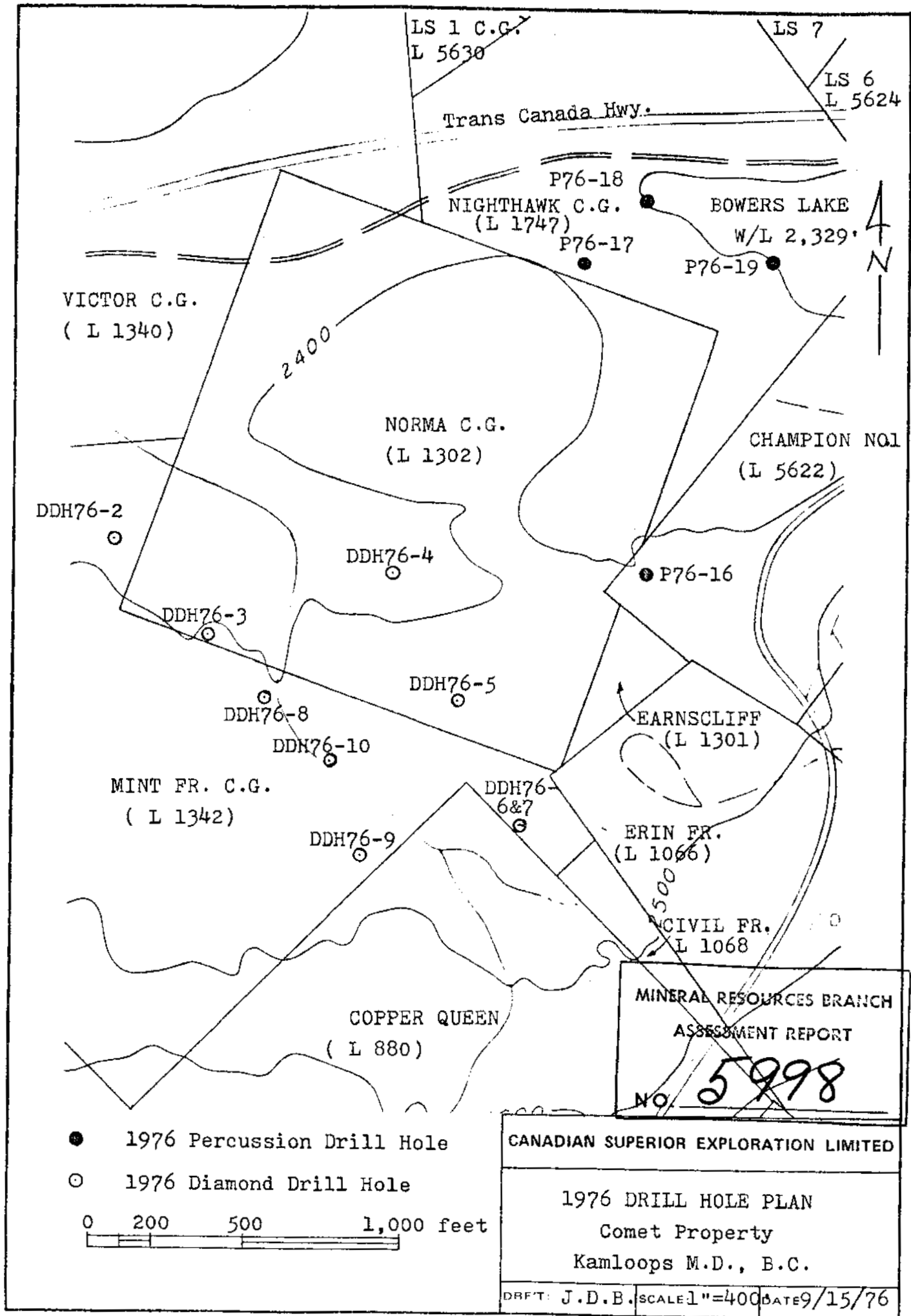
MINERAL RESOURCES BRANCH  
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CANADIAN SUPERIOR EXPLORATION LIMITED

1976 DRILL HOLE PLAN  
 Comet Property  
 Kamloops M.D., B.C.

DRAFT: J.D.B. SCALE: 1"=400' DATE: 9/15/76





LS 1 C.G.  
L 5630

LS 7

LS 6  
L 5624

Trans Canada Hwy.

P76-18

NIGHTHAWK C.G.  
(L 1747)

P76-17

BOWERS LAKE  
W/L 2,329'

P76-19

VICTOR C.G.  
(L 1340)

2400

NORMA C.G.  
(L 1302)

CHAMPION NO.1  
(L 5622)

DDH76-2

DDH76-4

P76-16

DDH76-3

DDH76-5

EARNSCLIFF  
(L 1301)

DDH76-8

DDH76-10

MINT FR. C.G.  
(L 1342)

DDH76-6&7

ERIN FR.  
(L 1066)

DDH76-9

CIVIL FR.  
L 1068

COPPER QUEEN  
(L 880)

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
NO. 5998

- 1976 Percussion Drill Hole
- 1976 Diamond Drill Hole



CANADIAN SUPERIOR EXPLORATION LIMITED

1976 DRILL HOLE PLAN  
Comet Property  
Kamloops M.D., B.C.

DRAFT: J.D.B. SCALE 1"=400' DATE 9/15/76

COST STATEMENT

In support of an Affidavit on Application to Record Work on the  
Comet A, B, and C groups of mineral claims, Kamloops Mining Division.

Costs incurred in percussion drilling, diamond drilling, and super-  
vision from July 1 to September 4, 1976.

1. Percussion Drilling		
5,580 feet @ \$3.00/ft.		\$16,740.00
2. Diamond Drilling		
7,786 feet @ \$10.00/ft.		\$77,860.00
3. Project management and supervision		
J.D. Blanchflower, geologist		
20 days @ \$50.00/day		<u>\$ 1,000.00</u>
	TOTAL	\$95,600.00

CANADIAN SUPERIOR EXPLORATION LIMITED  
DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 1  
 Claim No.: DM 73  
 Date Started: July 27, 1976 Type Drill: Longyear 38 Collar Elevation: 2,347 ft. A.M.S.L.  
 Date Completed: July 29, 1976 Contractor: J.T. Thomas Latitude: 12 North  
 Total Depth: 500 ft. or 152.25 m. Logged By: J.D. Blanchflower Departure: 90 West  
 Cased To 18 Ft. Sheet No. 1 of 1 Inclination: -60°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: 225°

Dip and Azimuth Tests: Acid Test at 490 ft.

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	18'	18'		OVERBURDEN	
18'	386'	368'		CHERRY CREEK INTRUSIVE BRECCIA - Micromonzonitic frags. in microdiorite	
386'	401.5'	15.5'		CHERRY CREEK INTRUSIVE - Micromonzonitic dyke	
401.5'	500'	98.5'		CHERRY CREEK INTRUSIVE BRECCIA - Micromonzonitic frags. in microdiorite	
				End of Hole at 500 ft.	

*J.D. Blanchflower*

## CANADIAN SUPERIOR EXPLORATION LIMITED

## DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 2  
 Claim No.: MINT FR. (L 1342)  
 Date Started: July 30, 1976 Type Drill: Longyear 38 Collar Elevation: 2,385 ft. A.M.S.L.  
 Date Completed: Aug. 1, 1976 Contractor: J.T. Thomas Latitude: 1 North  
 Total Depth: 746 ft. or 227.2 m. Logged By: J.D. Blanchflower Departure: 5 East  
 Cased To 28 Ft. Sheet No. 1 of 1 Inclination: -90°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: Nil

Dip and Azimuth Tests: \_\_\_\_\_

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	28'	28'		OVERBURDEN	
28'	169'	141'		CHERRY CREEK INTRUSIVE - Microdiorite, pervasive epidotization	
169'	189'	20'		POTHOOK DIORITE INTRUSIVE - Diorite, minor pyritization	
189'	299'	110'		CHERRY CREEK INTRUSIVE - Microdiorite, pervasive epidotization	
299'	391'	92'		IRON MASK DIORITE - Diorite, minor to moderate chalcopyrite	
391'	746'	355'		PICRITE - Basalt, local serpentization in intensely sheared zones	
				End of Hole at 746 ft.	

*J.D. Blanchflower*

CANADIAN SUPERIOR EXPLORATION LIMITED  
DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 3  
 Claim No.: NORMA (L 1302)  
 Date Started: Aug. 2, 1976 Type Drill: Longyear 38 Collar Elevation: 2,405  
 Date Completed: Aug. 4, 1976 Contractor: J.T. Thomas Latitude: 1 South  
 Total Depth: 750 ft. or 228.4 m. Logged By: J.D. Blanchflower Departure: 8 East  
 Cased To 40 Ft. Sheet No. 1 of 1 Inclination: -90°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: Nil

Dip and Azimuth Tests:

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	40'	40'		OVERBURDEN	
40'	108'	68'		CHERRY CREEK INTRUSIVE - Microdiorite, pervasive epidotization	
108'	135'	27'		POTHOOK INTRUSIVE - Diorite, pervasive epidotization	
135'	155'	20'		CHERRY CREEK INTRUSIVE - Microdiorite, quartz and/or calcite veining	
155'	223'	68'		IRON MASK INTRUSIVE - Diorite, with Xenoliths of Pothook Diorite	
223'	281'	58'		PICRITE - dk. grn. (serpentinized) to black Basalt, well sheared	
281'	325'	44'		POTHOOK INTRUSIVE - Diorite dyke, moderate chalcopyrite	
325'	750'	425'		PICRITE - Basalt, with locally assimilated section like Iron Mask Diorite	
				End of Hole at 750'	

*J.D. Blanchflower*

CANADIAN SUPERIOR EXPLORATION LIMITED  
DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 4  
 Claim No.: NORMA (L 1302)  
 Date Started: Aug. 5, 1976 Type Drill: Longyear 38 Collar Elevation: 2,383 ft. A.M.S.L.  
 Date Completed: Aug. 7, 1976 Contractor: J.T. Thomas Latitude: 0 North  
 Total Depth: 946 ft. or 288 m. Logged By: J.D. Blanchflower Departure: 14 East  
 Cased To 30 Ft. Sheet No. 1 of 1 Inclination: -90°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: Nil

Dip and Azimuth Tests: \_\_\_\_\_

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	30'	30'		OVERBURDEN	
30'	54'	24'		POTHOOK INTRUSIVE - Diorite, epidote, chlorite veining	
54'	185'	131'		CHERRY CREEK INTRUSIVE - Microdiorite, minor pyritization	
185'	256'	71'		IRON MASK INTRUSIVE - Diorite, pervasive epidotization	
256'	946'	690'		CHERRY CREEK INTRUSIVE - Microdiorite, moderate saussuritization	
				End of Hole at 946 ft.	

*J.D. Blanchflower*

CANADIAN SUPERIOR EXPLORATION LIMITED  
DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 5  
 Claim No.: NORMA (L 1302)  
 Date Started: Aug. 7, 1976 Type Drill: Longyear 38 Collar Elevation: 2,458  
 Date Completed: Aug. 9, 1976 Contractor: J.T. Thomas Latitude: 4 South  
 Total Depth: 926 ft. or 282 m. Logged By: J.D. Blanchflower Departure: 16 East  
 Cased To 58 Ft. Sheet No. 1 of 1 Inclination: -90°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: Nil

Dip and Azimuth Tests:

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	58'	58'		OVERBURDEN	
58'	167.5'	109.5'		CHERRY CREEK INTRUSIVE - Microdiorite, moderate saussuritization	
167.5'	189'	21.5'		PICRITE - intensely sheared Basalt, serpentinization	
189'	680'	491'		CHERRY CREEK INTRUSIVE - Microdiorite, moderate saussuritization	
680'	895.5'	215.5'		PICRITE - Basalt intruded by Cherry Creek microdioritic dykes	
895.5'	926'	30.5'		CHERRY CREEK INTRUSIVE - Microdiorite, moderate saussuritization	
				End of Hole at 926 ft.	

*J.D. Blanchflower*

CANADIAN SUPERIOR EXPLORATION LIMITED

DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 6  
 Claim No.: MINT FR. (L 1342)  
 Date Started: Aug. 9, 1976 Type Drill: Longyear 38 Collar Elevation: 2,485 ft. A.M.S.L.  
 Date Completed: Aug. 10, 1976 Contractor: J.T. Thomas Latitude: 8 South  
 Total Depth: 96 ft. or 29.2 m. Logged By: J.D. Blanchflower Departure: 18 East  
 Cased To 76 Ft. Sheet No. 1 of 1 Inclination: -90°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: Nil

Dip and Azimuth Tests:

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	76'	76'		OVERBURDEN	
76'	86'	10'		POTHOOK INTRUSIVE - Diorite, moderate chalcopyrite mineralization	
86'	96'	10'		CHERRY CREEK INTRUSIVE - Microdiorite, moderate saussuritization	
				Abandoned at 96' after intersecting underground drift	

*J.D. Blanchflower*



CANADIAN SUPERIOR EXPLORATION LIMITED  
DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 7  
 Claim No.: MINT FR. (L 1342)  
 Date Started: Aug. 10, 1976 Type Drill: Longyear 38 Collar Elevation: 2,485 ft. A.M.S.L.  
 Date Completed: Aug. 12, 1976 Contractor: J.T. Thomas Latitude: 8 South  
 Total Depth: 501 ft. or 152.6 m. Logged By: J.D. Blanchflower Departure: 18 East  
 Cased To 76 Ft. Sheet No. 1 of 1 Inclination: -85°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: 090°

Dip and Azimuth Tests: Acid Test at 491 ft.

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	76'	76'		OVERBURDEN	
76'	80'	4'		POTHOOK INTRUSIVE - Diorite, gypsum veinlets	
80'	146'	66'		CHERRY CREEK INTRUSIVE - minor to moderate chalcopyrite	
146'	226'	80'		CHERRY CREEK/POTHOOK INTRUSIVE - Microdiorite to Diorite	
226'	501'	275'		CHERRY CREEK INTRUSIVE - Microdiorite, saussuritization	
				End of Hole at 501 ft.	

*J.D. Blanchflower*

CANADIAN SUPERIOR EXPLORATION LIMITED  
DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 8  
 Claim No.: MINT FR. (L 1342)  
 Date Started: Aug. 12, 1976 Type Drill: Longyear 38 Collar Elevation: 2,410  
 Date Completed: Aug. 14, 1976 Contractor: J.T. Thomas Latitude: 4 South  
 Total Depth: 594 ft. or 180.9 m. Logged By: J.D. Blanchflower Departure: 10 East  
 Cased To 86 Ft. Sheet No. 1 of 1 Inclination: -90°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: Nil

Dip and Azimuth Tests:

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	86'	86'		OVERBURDEN	
86'	166.5'	80.5'		PICRITE - Basalt; locally sheared and serpentinized	
166.5'	194'	27.5'		CHERRY CREEK INTRUSIVE - well foliated Microdiorite	
194'	594'	400'		PICRITE - Basalt, locally sheared and serpentinized	
				End of Hole at 594 ft.	

*J.D. Blanchflower*

## CANADIAN SUPERIOR EXPLORATION LIMITED

## DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 9  
 Claim No.: MINT FR. (L 1342)  
 Date Started: Aug. 15, 1976 Type Drill: Longyear 38 Collar Elevation: 2,475 ft. A.M.S.L.  
 Date Completed: Aug. 17, 1976 Contractor: J.T. Thomas Latitude: 9 South  
 Total Depth: 458 ft. or 139.5 m. Logged By: J.D. Blanchflower Departure: 13 East  
 Cased To 75 Ft. Sheet No. 1 of 1 Inclination: -90°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: Nil

Dip and Azimuth Tests: \_\_\_\_\_

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	75'	75'		OVERBURDEN	
75'	97'	22'		PICRITE - hybridized Basalt; epidote, chlorite veinlets	
97'	101'	4'		CHERRY CREEK INTRUSIVE - pyritic Microdiorite	
101'	123'	22'		PICRITE - Basalt; epidote, chlorite veinlets, pyrite disseminations	
123'	130'	7'		CHERRY CREEK INTRUSIVE - pyritic Microdiorite	
130'	458'	328'		PICRITE - Basalt; locally intensely sheared and serpentinized	
				End of Hole at 458 ft.	



CANADIAN SUPERIOR EXPLORATION LIMITED  
DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 10  
 Claim No.: MINT FR. (L 1342)  
 Date Started: Aug. 18, 1976 Type Drill: Longyear 38 Collar Elevation: 2,435 ft. A.M.S.L.  
 Date Completed: Aug. 20, 1976 Contractor: J.T. Thomas Latitude: 6 South  
 Total Depth: 433 ft. or 131.8 m. Logged By: J.D. Blanchflower Departure: 12 East  
 Cased To 90 Ft. Sheet No. 1 of 1 Inclination: -90°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: N11

Dip and Azimuth Tests:

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	90'	90'		OVERBURDEN	
90'	136'	46'		POTHOOK INTRUSIVE - Diorite; moderate saussuritization	
136'	188'	52'		PICRITE - Basalt, local 1 ft. wide Pothook Diorite dykes	
188'	316'	128'		POTHOOK INTRUSIVE - Diorite, saussuritized, orthoclase veinlets	
316'	336.5'	20.5'		PICRITE - Basalt; intense shearing and serpentinization	
336.5'	372.5'	36'		CHERRY CREEK INTRUSIVE - Microdiorite, pyritic	
372.5'	433'	60.5'		PICRITE - Basalt; locally sheared and serpentinized	
				End of Hole at 433 ft.	

*J.D. Blanchflower*

CANADIAN SUPERIOR EXPLORATION LIMITED  
DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 11  
 Claim No.: DM 71  
 Date Started: Aug. 20, 1976 Type Drill: Longyear 38 Collar Elevation: 2,448 ft. A.M.S.L.  
 Date Completed: Aug. 22, 1976 Contractor: J.T. Thomas Latitude: 14 North  
 Total Depth: 553 ft. or 168.4 m. Logged By: J.D. Blanchflower Departure: 69 West  
 Cased To 22 Ft. Sheet No. 1 of 1 Inclination: -50°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: 360°

Dip and Azimuth Tests: Acid test at 543 ft.

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	22'	22'		OVERBURDEN	
22'	98'	76'		CHERRY CREEK INTRUSIVE - Micromonzonite, magnetite veinlets	
98'	108.5'	10.5'		CHERRY CREEK - Aphanitic, dark grey microdiorite dyke	
108.5'	292'	183.5'		CHERRY CREEK INTRUSIVE - Micromonzonite, minor chalcopyrite	
292'	405'	113'		CHERRY CREEK INTRUSIVE BRECCIA - Micromonzonitic breccia	
405'	511'	106'		CHERRY CREEK INTRUSIVE BRECCIA - Microdioritic breccia	
511'	518'	7'		CHERRY CREEK - Aphanitic, dark brown microdiorite dyke	
518'	553'	35'		CHERRY CREEK INTRUSIVE BRECCIA - Micromonzonitic breccia	
				End of Hole at 553 ft.	

*J.D. Blanchflower*

CANADIAN SUPERIOR EXPLORATION LIMITED

DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 12  
 Claim No.: DM 71  
 Date Started: Aug. 22, 1976 Type Drill: Longyear 38 Collar Elevation: 2,455 ft. A.M.S.L.  
 Date Completed: Aug. 29, 1976 Contractor: J.T. Thomas Latitude: 12 North  
 Total Depth: 668 ft. or 203.4 m. Logged By: J.D. Blanchflower Departure: 67 West  
 Cased To 24 Ft. Sheet No. 1 of 1 Inclination: -50°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: 360°

Dip and Azimuth Tests: Acid Test at 658 ft.

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	24'	24'		OVERBURDEN	
24'	45'	21'		CHERRY CREEK INTRUSIVE - Micromonzonite, magnetite dissemination	
45'	188'	143'		CHERRY CREEK INTRUSIVE - Microdiorite, saussuritization	
188'	576'	388'		CHERRY CREEK INTRUSIVE - Micromonzonite, saussuritization	
576'	668'	92'		CHERRY CREEK INTRUSIVE BRECCIA - Micromonzonitic breccia	
				End of Hole at 668 ft.	

*J.D. Blanchflower*

CANADIAN SUPERIOR EXPLORATION LIMITED

DRILL LOG

Project: COMET Hole Size: BQ Hole No.: D.D.H. 76 - 13  
 Claim No.: DM 71  
 Date Started: Aug. 30, 1976 Type Drill: Longyear 38 Collar Elevation: 2,476 ft. A.M.S.L.  
 Date Completed: Sept. 4, 1976 Contractor: J.T. Thomas Latitude: 10 North  
 Total Depth: 615 ft. or 187.3 m. Logged By: J.D. Blanchflower Departure: 69 West  
 Cased To 66 Ft. Sheet No. 1 of 1 Inclination: -50°  
 Casing Pulled: Yes  No  Core Stored At: Comet Warehouse Bearing: 360°

Dip and Azimuth Tests: Acid test at 605 ft.

FROM	TO	THICKNESS	% RECOVERY	GEOLOGIC DESCRIPTION AND REMARKS	INTERVAL SAMPLED
0	66'	66'		OVERBURDEN	
66'	170'	104'		CHERRY CREEK INTRUSIVE - Micromonzonite, saussuritization	
170'	381'	211'		CHERRY CREEK INTRUSIVE - Microdiorite cut by augite pphy. dyke swarm	
381'	615'	234'		CHERRY CREEK INTRUSIVE BRECCIA - Micromonzonitic breccia	
				End of Hole at 615 ft.	

*J.D. Blanchflower*

## CANADIAN SUPERIOR EXPLORATION LIMITED

## PERCUSSION DRILL HOLE LOG

PERCUSSION HOLE NUMBER	ELEVATION (ft. A.M.S.L.)	DEPTH of OVERBURDEN		TOTAL DEPTH		AZIMUTH	DIP	COMMENT
		Meters	Feet	Meters	Feet			
P 76 - 1	2,215	4.57	15	91.35	300		-90°	
P 76 - 2	2,181	18.27	60	91.35	300		-90°	
P 76 - 3	2,212	35.02	115	91.35	300		-90°	
P 76 - 4	2,235	4.57	15	91.35	300		-90°	
P 76 - 5	2,283	7.00	23	91.35	300		-90°	
P 76 - 6	2,304	1.52	5	91.35	300		-90°	
P 76 - 7	2,318	1.52	5	91.35	300		-90°	
P 76 - 8	2,318	3.04	10	91.35	300		-90°	
P 76 - 9	2,326	3.04	10	91.35	300		-90°	
P 76 - 10	2,343	3.04	10	91.35	300		-90°	
P 76 - 11	2,300	10.66	35	91.35	300		-90°	
P 76 - 12	2,320	6.7	22	91.35	300		-90°	
P 76 - 13	2,360	4.56	15	91.35	300		-90°	
P 76 - 14	2,325	1.52	5	91.35	300		-90°	
P 76 - 15	2,340	9.14	30	91.35	300		-90°	
P 76 - 16	2,409	6.09	20	54.81	180		-90°	Abandoned due to caving
P 76 - 17	2,374	3.04	10	91.35	300		-90°	
P 76 - 18	2,320	19.18	63	91.35	300		-90°	
P 76 - 19	2,320	19.79	65	91.35	300		-90°	



CERTIFICATE

I, J. Douglas Blanchflower, of the City of Kamloops,  
in the Province of British Columbia, do hereby certify:

That I am a practising Geologist and employed by Canadian  
Superior Exploration Limited, with offices located at 2201 - 1177  
West Hastings Street, Vancouver, British Columbia.

I further certify:

1. That I am a graduate of the University of British Columbia  
(1971) and hold a B. Sc., degree in Geology.
2. I have been practising my profession for the past five years.
3. This report is based on information obtained by the writer  
from personal supervision of the percussion and diamond drill  
programs.



J.D. Blanchflower, B.Sc.  
Geologist

Kamloops, B.C.

September 15, 1976

MEMORANDUM OF AGREEMENT

Between

CANADIAN SUPERIOR EXPLORATION

#5 - 465 VICTORIA ST.

KAMLOOPS, B.C.

(hereinafter called "the Company")

And

H. N. HORNING PERCUSSION DRILLING LTD.

(hereinafter called "Horning")

% JARRETT, GOULD & ELLIOTT

Ste. 200 - 186 Victoria Street

KAMLOOPS, B. C.

WHEREAS the Company has requested Horning to proceed to the Company's mineral property in the KAMLOOPS area of \_\_\_\_\_ and there carry out a programme of percussion drilling totalling approximately 3,000 feet.

NOW THEREFORE IT IS AGREED AS FOLLOWS:

1. Horning will provide all the equipment, supplies, fuel and labour to carry out the said programme and will, at its expense, have these available and in good order at the drill site on a date to be stated by the Company.
2. The Company will construct all necessary access roads and drilling sites and will provide on request and with out delay such transport, bulldozers, equipment, labour or assistance as may be necessary in moving the said drilling equipment to or from or on or about the drill site and will bear the cost thereof.
3. The Company will determine the location of all drill holes, the order of drilling the said holes, and the method of obtaining samples but in all other respects the drilling operations shall be carried out under the direction and control of Horning. Horning will carry out the drilling as expeditiously as possible but shall not be liable for delays due to weather, mechanical failures or other circumstances beyond its control nor shall Horning be obliged to drill at any site or move its equipment by any route which it considers unsafe for its equipment or personnel.
4. Horning will hold the Company harmless from all and any demands claims, write, suits or causes of action arising out of the operations conducted by Horning saving always those attributable in whole or in part to the acts or omissions, negligent or otherwise, of the Company, its servants or employees. For the greater certainty of this undertaking, Horning shall maintain public liability insurance in the amount of \$ 500,000.00 and in a form acceptable to the Company.
5. Horning will comply with all laws of the state, province or country having jurisdiction and shall do all things necessary to prevent the mineral property of the Company being subjected to charges or liens or in any way imperilled by reason of the act omission or default of Horning. Without restricting the generality of the foregoing it is expressly provided that Horning shall maintain registration with the Workmen's Compensation Board of British Columbia and shall promptly pay all levies and assessments made by that Board.
6. Horning will maintain a daily record of the drilling operation and will furnish to the Company a copy thereof duly signed by the Company's representative at the drill site. In the report the hole identification number shall be those prescribed by the Company if any.
7. The remuneration payable by the Company to Horning shall be \$2.75 per foot drilled.
8. The Company shall reimburse Horning for additional costs according to the following Schedule "A".

SCHEDULE "A"

<u>Additional Cost</u>	<u>Reimbursement</u>
(a) Chemical grout and mud used	GROUT \$20.00 PER BATCH
(b) Casing lost by Horning in any hole requiring over 50 feet of casing.	AT COST
(c) Time driving casing in excess of 50 feet and excessive time recovering any casing.	FIELD COST
(d) Rods lost by Horning in any hole exceeding 300 feet in depth.	AT COST
(e) Excessive time required to draw rods from any hole exceeding 300 feet in depth.	FIELD COST
(f) Waiting time (including Saturdays, Sundays and Statutory Holidays, if a designated working day)	FIELD COST
(g) On site moving time.	NIL
(h) Travelling time in excess of 1 hour from camp to drill site or vice-versa.	MAN HOURS
(i) Water supplied with water truck	25¢ PER FT. - DRILLED LAKE 40¢ PER FT. - DRILLED SHAFT
(j) Mobilisation	NIL
(k) Moving in and moving out.	NIL

For the purpose of this Agreement "waiting time" includes only time lost by Horning through delays occasioned by the Company, its servants or employees, through failure to provide instruction, permits, licences, access road, transportation and the like when required. It is understood and agreed that item (f) in the foregoing schedule is intended to reimburse Horning for delays beyond its control and that if a normal working day is lost the reimbursement shall be the stipulated rate for each hour which would normally have been worked. (i.e. 8 hours for single shift operation and 16 hours for double shift operation.)

Also for the purposes of this agreement "on site moving time" shall mean time required to move the drilling equipment on and about the company's property from camp to drill platform or landing and from one drill platform or landing to another but not including moving to or from the property itself.

Field cost is defined as the aggregate of the following: -

1. Labour - per man hour \$ 7.50
2. Equipment rental - per hour 12.00
3. Materials used or lost on job to which field rate is applied at delivered cost to job site.
4. Overhead at 10% of labour and rentals.

9. Horning shall render statements of account at weekly or greater intervals and the amount due to Horning as shown by the statement shall be payable seven days after presentation.

10. On or before arrival of Horning's equipment at the Company's property the company as security for payment of the contract price shall deposit in trust with Horning's solicitors, N/A and accompany the deposit with a letter of instruction in the form set out in Schedule "B" appended hereto.

IN WITNESS WHEREOF the parties have caused these presents to be signed on their behalf by their respective officers at the places and on the dates stated below.

AT: *Kamloops, B.C.*

ON: *June 25, 1976*

AT: Kamloops, B.C.

ON: June 25, 1976

CANADIAN SUPERIOR EXPL. LTD.

Per: *J. H. Blanchflower*

H.N. HORNING PERCUSSION DRILLING LTD.

Per: *H. R. Horning*

AGREEMENT

COMET PROPERTY

**BETWEEN:** CANADIAN SUPERIOR EXPLORATION LTD.  
2201 1177 West Hastings Street  
Vancouver, British Columbia  
(Hereinafter referred to as the  
'COMPANY' of the First Part)

**AND:** J.T. THOMAS DIAMOND DRILLING LTD.  
P.O. Box 394  
Smithers, British Columbia  
(Hereinafter referred to as the  
'CONTRACTOR' of the Second Part)

**A. THE CONTRACTOR COVENANTS AND AGREES:**

1. THAT all holes shall be drilled with BQ wireline equipment providing a core approximately 1-7/16" in diameter.
2. THAT the Contractor shall use his best endeavor to complete all holes according to the wishes of the Company, but should rock conditions prevent successful completion of the hole, the Contractor is not obliged to complete the same, but shall be paid for such incomplete holes at contract rates for the completed footage.
3. THAT the Contractor will supply his own transportation, accommodation and mobilization.
4. THAT the Contractor will supply water to the drill at his own expense.
5. THAT the Contractor will not give out any information regarding drill results, or access to core to any person other than to the Company's representative.
6. THAT the Contractor will supply a machine suitable for moving the drill and preparing drill sites.
7. THAT the Contractor will pay the cost of moving between sites.
8. THAT the Contractor will supply coreboxes at no cost.
9. THAT the Contractor will absorb all cementing cost if necessary.
10. THAT the Contractor will pay the cost of drilling mud and additives required for this job.
11. THAT the Contractor shall maintain General Comprehensive Liability Insurance with minimum inclusive limits of \$300,000 covering bodily injuries and property damage and Motor Vehicle Liability with minimum inclusive limits of \$300,000. This insurance coverage shall not be reduced or cancelled during the period work is being done for the Company unless ten days prior written notice is furnished to the Company.



12. THAT the Contractor shall be responsible for and will pay promptly all dues and assessments payable under the Workmen's Compensation Act, in accordance with the laws of the Province of British Columbia, in respect of its employees.
13. THAT the Contractor agrees to indemnify and save harmless the Company and its personnel against any and all loss and expense including attorney's fees and other legal expenses, by reason of liability imposed or claimed to be imposed by law upon the Company for damages because of bodily injuries, including death, or on account of damage to property, sustained by any person or persons arising out of or in consequence of the performance of the work called for by this contract whether or not such bodily injuries, death or damage to property arise or are claimed to arise in whole or in part out of negligence or any other ground of legal liability, including violation or any duty imposed by a statute or ordinance or regulation on the part of the Contractor, their employees or agents of them.
14. THAT during the course of the work, the Contractor shall, at all times, keep the Company's premises free from accumulation of waste material or rubbish and upon completion of the work shall remove all tools, scaffoldings, surplus materials and rubbish and leave the premises in a clean condition and as near as possible to its original condition. The Contractor shall observe and comply with all applicable laws of the Province of British Columbia.
15. THAT this agreement may be altered only by written consent of both parties hereto.
16. THAT time is of the essence in this agreement.

B. THE COMPANY COVENANTS AND AGREES:

1. THAT the payment for the herein described work shall be \$10.00 (Ten Dollars) per foot for core drilling and \$10.00 (Ten Dollars) per foot for overburden.
2. THAT the Company will prepare access roads.
3. THAT the Company requests the Contractor to complete a minimum of 4,000 (Four Thousand) feet of drilling and other services as set forth herein.
4. THAT the Company agrees to make payments at the rates hereinbefore specified in accordance with the terms hereinafter set out, that is: For all work done hereunder between the first and 15th day and the 16th and last day of the month, invoices shall be rendered promptly to the Company, and such invoices shall be due and payable within 15 days of receipt of an invoice by the Company.

IN WITNESS WHEREOF these presents have been executed by the parties hereto, this 20 day of July A.D. 1976.

CANADIAN SUPERIOR EXPLORATION LTD.

W. G. Robinson

Raymond Lamont

J.T. THOMAS DIAMOND DRILLING LTD.

Jean Thomas

Alan Baker