

83-#666

-11868

11/83

DIAMOND DRILLING ON TREN #2 M. C.

LA FRANCE CREEK, NELSON MINING DISTRICT, B. C.

82E/10E

19° 32' 5" N 116° 40' W

This report details the diamond drilling programme carried out by TRENAMAN MINING SERVICES LTD. in September and early October, 1983, and discusses the results obtained. The diamond drilling programme was recommended in reports written by R. T. Trenaman, P. Eng. (1975, 1977), and R. A. Nelson, P. Eng. (1981), as the most practicle follow-up to previous exploration work done on the Tren claim group.

SABLE RESOURCES LTD. of 970-625 Howe Street, Vancouver, B.C. V6C 2T6, the owner of the group of claims, requested the work as partial fulfillment of assessment requirements on the Tren (supplementary) group of claims.

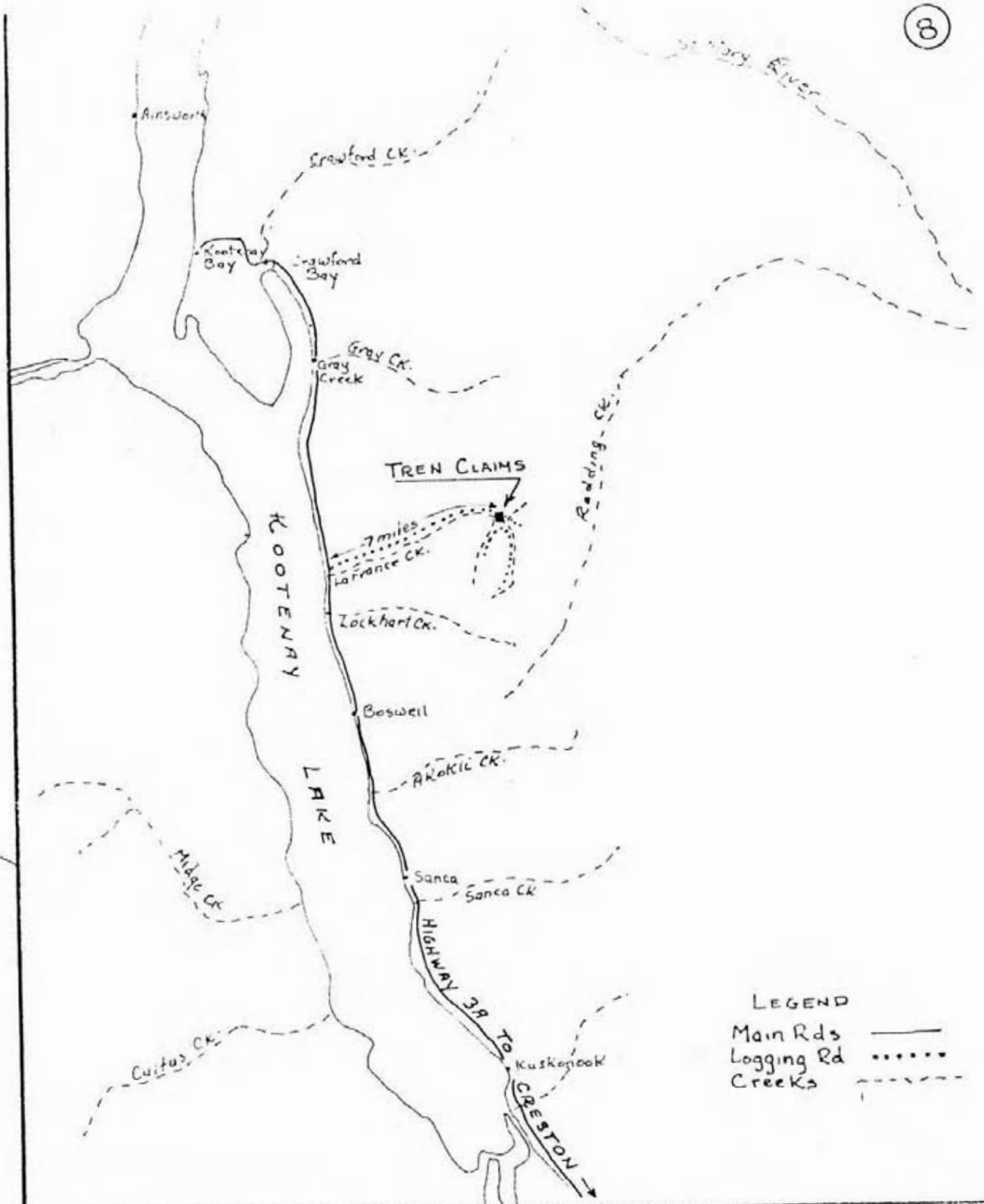
The diamond drilling programme was carried out between September 14 and October 3, 1983.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,868**

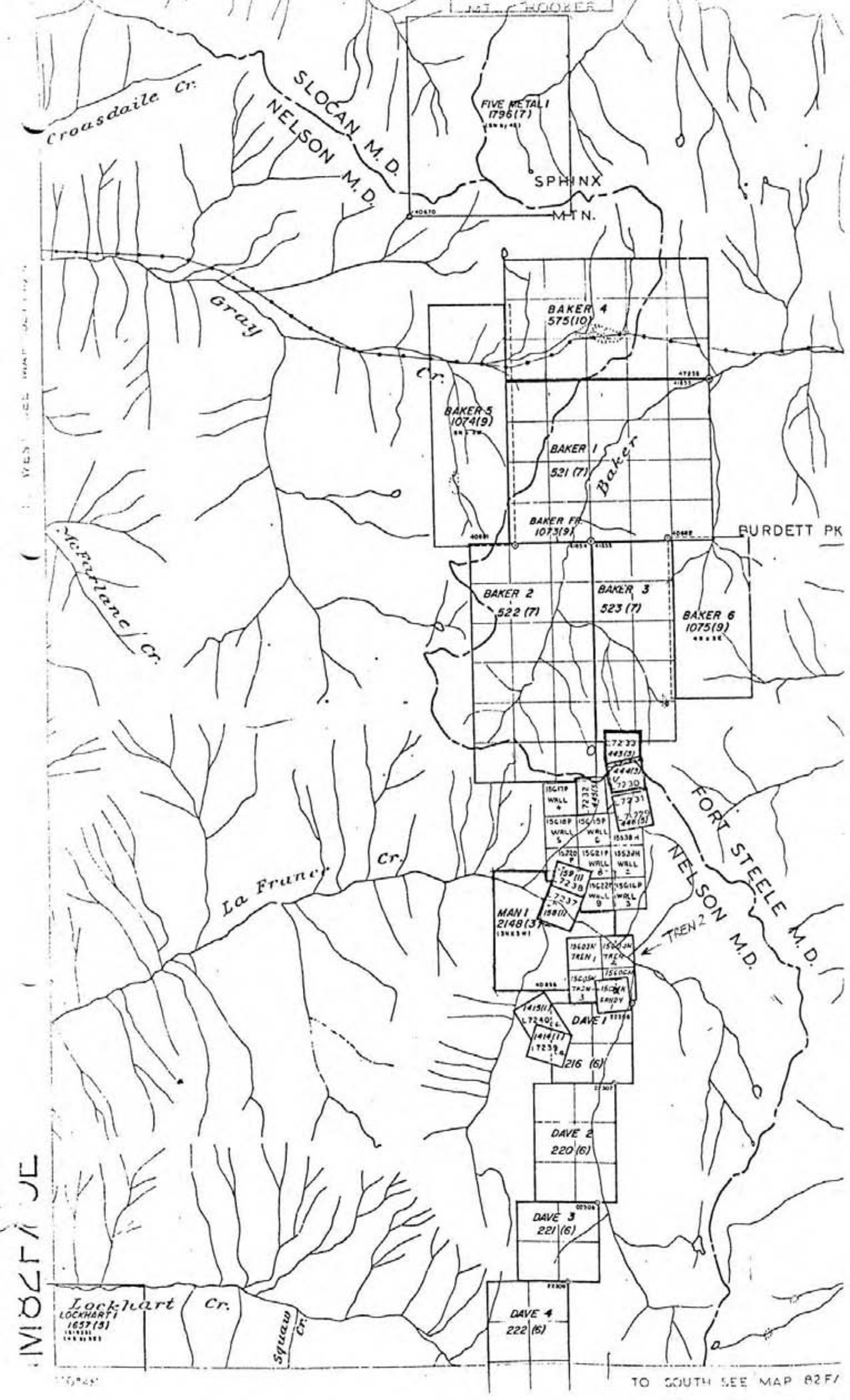
LOCATION AND TOPOGRAPHY

The Tren (supplementary) group of 15 claims (Tren #1, 2, 3, 4 and Man #1 consisting of 9 units) straddles La France Creek, extending up both sides of the main valley at a distance approximately 7 miles (12 km) east of Kootenay Lake (see attached index map). Access to the claims normally is by a well graded logging road which passes



LEGEND  
 Main Rds ———  
 Logging Rd .....  
 Creeks - - - - -

Block No \_\_\_\_\_ Plate No \_\_\_\_\_  
 Title: INDEX MAP FOR TREN CLAIMS, LA FRANCE CK NELSON M.D.  
 Drawn by R. Trenaman Signed SEPT / 75 Date \_\_\_\_\_ Scale 4 miles Drawing No S  
 Checked by \_\_\_\_\_ Refer Drawing Nos \_\_\_\_\_  
 Approved \_\_\_\_\_



Crossdaile Cr.

SLOAN M.D.  
NELSON M.D.

FIVE METAL I  
1796(7)

SPHINX  
MTN.

Gray Cr.

BAKER 4  
575(10)

BAKER 5  
1074(9)

BAKER 1  
521(7)

Baker

BAKER FR  
1073(9)

BURDETT PK

McFarlane Cr.

BAKER 2  
522(7)

BAKER 3  
523(7)

BAKER 6  
1075(9)

La France Cr.

FORT STEELE M.D.  
NELSON M.D.

7233  
443(5)  
444(5)  
7230  
7231  
7229  
446(5)  
15G1P WALL 4  
15G1P WALL 5  
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15G1P WALL 95  
15G1P WALL 96  
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15G1P WALL 98  
15G1P WALL 99  
15G1P WALL 100

MAN 1  
2148(3)

TREN 1  
TREN 2  
TREN 3

DAVE 1  
216(6)

DAVE 2  
220(6)

DAVE 3  
221(6)

DAVE 4  
222(6)

Lockhart Cr.  
LOCKHART 1  
1657(3)

Squaw Cr.

MONTA JE

TO SOUTH SEE MAP 82F/

through the centre of the claim area. A large proportion of the land encompassed by the claim boundaries has been logged within the last decade, thus the logging main and skid roads provide easy access to all but the northern most sections of the claims.

The claim area north of La France Creek slopes upward at approximately 35°. The vegetation on this part of the claims (except for the logged areas) consists mainly of young hemlock, fir and western cedar. Less extensive is a dense mat of tag alders and buckbrush.

The claim area south of the creek rises more gently (approximately 20°) and prior to logging was forested by mature cedar, hemlock and spruce. Much of this area has been logged but remnant patches of non-economic timber still exists.

#### GENERAL GEOLOGY

Although most of the claim area for 800 (approximately) feet north and south of the creek is covered by a heavy blanket of glacial till and slide debris, a good idea of the stratigraphy and composition of the underlying bedrock may be determined by extrapolating data obtained on the higher slopes to the north and south.

The rocks underlying the claim area are north trending, generally vertically dipping sediments of the Kitchener-Siyeh (Lower Purcell age) and the Dutch Creek formations of Upper Purcell age.

The upper beds of the Kitchener-Siyeh which underly the east half of the Tren #2 and #4 claims, consists of light grey quartzites in beds up to 12 inches thick, alternating with thin laminated sandy argillites, and limey quartzites. Certain of the latter beds exhibit a striking colour pattern of browns, buffs and creams. At least three interbedded grey-green sills up to 40 feet thick occur in the portion of the formation covered by the claims.

Overlying the above described sequence apparently conformable to the west, is a series of limey quartzites, and light coloured shales. Also present in this series are limestones and cream coloured dolomites. Few beds exceed 6 inches in thickness, with the exception of an occasional bed of massive cream coloured dolomite which can reach 2 feet. The maximum measured thickness of this series is 300 feet. It is suspected that intertongues to black shale reduce the thickness of the series along strike. A distinctive breccia structure is characteristic of certain limey members of this series and is thought to reflect collapse features. These beds are assumed to be the basal strata of the Upper Purcell-Dutch Creek formation.

A massive series of blue, grey and black shales (phyllites) overlie the predominately limey strata described above. On the ridge north of La France Creek this series has a measured thickness of 1300 feet. Closer to the creek, it appears to be thinner, and contains interbedded limestones. Thin light coloured lime partings characterize certain sections of the sequence, and a slatey cleavage has been well developed at other locations.

The basal members of the Mount Nelson formation lie near the western edge of the Tren claims, and is the predominant formation contained within the Man #1 claims. Most rock exposures in the claim area reflect the effects of major stress. Tight chevron folds are well developed in the shaley beds, supporting the suspicions that local thickening has taken place. Regional stresses have provided crenulated folds in most rocks exposed. The axis of these folds dips gently to the north.

Most rocks have undergone medium grade metamorphism. Shales have been altered to phyllites, and clay components in limey rocks have been changed to mica.

The basal limey members of the Dutch Creek formation in the La France Creek area and for some distance north has been the subject of mineral exploration dating back to the 1890's. Minor disseminations of galena, sphalerite, tetrahedrite and pyrite have been observed and tested by various methods and at various places for a distance of up to 8 miles along strike.

A number of old test pits and trenches were located within the claim boundaries while conducting the geochemical survey and the surface trenching programme.

#### DIAMOND DRILLING PROGRAMME

The diamond drilling programme conducted had as its main objectives the following:

1. To attempt to detail the stratigraphy underlying one of the main north-south geochemical anomalies.
2. To attempt to identify the particular carbonate or other member of the underlying strata hosting the sulfide mineralization known to occur.
3. To attempt to identify any structural features which might localize sulfide mineralization.

To this end, 1016.5 feet (approximately 313 metres) were drilled in five diamond drill holes coring B.Q. wireline core. Four of these holes were completed to approximately the desired depth, the fifth, Hole 83-3, was lost due to bad ground.

The core from these holes was completely logged; these logs are attached. Locations are as detailed on the attached 1" = 200' (Dwg. No. 1) and 1" = 40' (Dwg. No. 2) prints and graphic logs of the holes are shown on the attached section (Dwg. No. 3). The core is currently stored in the basement of a house at Lockhart Creek, near Boswell, B.C. Core recovery was generally very good, considering the incompetent nature of the ground cored.

#### COMMENTS

The drilling cross-cut a 500 foot stratigraphic section assumed to be the lower Dutch Creek formation. From east to west,

the section commences with blue grey phyllites followed by a sequence of up to 40 feet thickness of phyllitic limestones, dense somewhat dolomitic limestones, phyllites, limestone breccias and minor quartzites.

There is considerable evidence of faulting and fracturing. A diagnostic feature of the section is a unique limestone breccia consisting of cream coloured limey fragments in a chocolate brown limey matrix. In Hole 83-1 it occurs at three locations, and is present in Holes 83-2 and 83-4. It has been logged as a slump breccia.

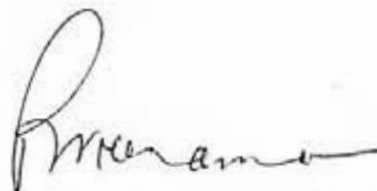
The total section has been subjected to extreme weathering, even to the bottom of Hole 83-1, which has penetrated to below the level of the La France valley bottom. The cores are bleached, with the many hues of crimson, rust and brown oxides of iron.

Only the more dolomitic or siliceous sections are present in the unweathered state.

Sulfide mineralization, which consists of pyrite, with minor galena and tetrahedrite appears to be restricted to the dense limestones which maybe somewhat dolomitic or siliceous. Certain sections of these rocks have been fractured at regular intervals and the sulfides occur as minor blebs and streaks associated with narrow quartz stringers, calcite, siderite and sericite which have infilled the fractures.



No sulfides in economic amounts were cut by the  
drilling.

A handwritten signature in cursive script, appearing to read "R. T. Trenaman".

R. T. Trenaman, P. Eng.

RTT:lm

October 31, 1983

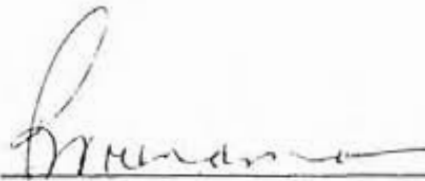
C E R T I F I C A T E

I, Roland Trevor Trenaman, do certify as follows:

- 1) That I am a Consulting Mining Engineer with offices at 960 - 625 Howe Street, Vancouver, B.C.
- 2) That I am a graduate of the University of British Columbia with a degree of Bachelor of Applied Science 1957 in Mineral Engineering.
- 3) That I am a member of the Association of Professional Engineers of the Province of British Columbia.
- 4) That during the last five years, I have directed exploration and mine development programmes in northern British Columbia, and elsewhere.

November 7, 1983

Date



Roland Trevor Trenaman

## APPENDIX I

## COST STATEMENT - DIAMOND DRILLING

TREN #2 M.C.

September 12 to October 3, 1983Fees

R. T. Trenaman - Office & Field  
- 7 days @ \$450.00 per diem \$ 3,000.00

Travel/Transportation Costs

Vehicle Mileage - 2100 miles @ 35¢ per mile 735.00

Room & Board

6 days @ \$30.00 per day 180.00

Contracts

Diamond Drilling - Kamaro Drilling Company 23,391.00

Catwork - E. Strom, Crawford Bay, B.C. 660.00  
to open up 7½ miles of logging road

Typing & Reproduction

Re Report 50.00

TOTAL COSTS \$ 28,016.00

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## LEGEND

### ROCK TYPES USED FOR GRAPHIC LOGS

#### 1. Argillaceous

- A Blue grey phyllites
- A-1 Limey phyllites - thinly, often contorted laminations
- A-2 Limey phyllites - with quartz stringers and minor sulfide mineralization

#### 2. Limestones

- B Dense, light grey to cream limestone, occasional sericite partings (contorted), commonly with minor sulfide mineralization
- B-1 Light grey limestone, interbanded with limey phyllites
- B-2 Limestone breccia - angular to subangular fragments of cream coloured limestone in darker brown matrix
- B-3 Impure, soft weathering limestone, crumpled with slump structures

#### 3. Siliceous

- C Quartzites
- C-1 Limestones, with high percentage silica

#### 4. Dolomitic

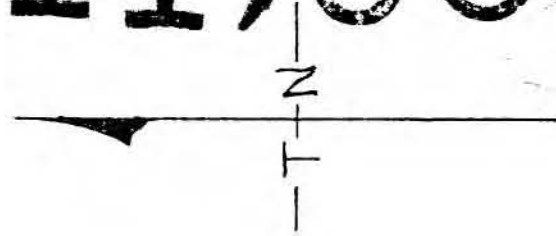
- D Dolomites or siliceous dolomites
- D-1 Interbedded dolomites and limey phyllites

#### 5.

- E Lamprophyre dyke

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,868



Cabin  
El. 4840'

No 3 Fork East.

LOGGING ROAD

LOGGING ROAD

Boundaries of Heavy Metal  
Geochemical Anomalous Areas

TREN No.2

TREN No 4. MR.

TREN No 2 M.C.

INITIAL POSTS  
TREN No I

83-4

83-1

83-5


83-2

Trenches

SANDY M.C.  
(D. Wicklund)

7.0 Miles  
to Kootenay Lake

LA FRANCE CREEK

RELATED DWGS OR REVISIONS	283
 Tremaman Mining Services Ltd. 260 625 HOWE STREET VANCOUVER, B.C. V6C 1K7	
<b>SABLE RESOURCES LTD</b>	
LOCATION PLAN FOR DIAMOND DRILLING PROGRAMME - TREN CLAIMS 1983	
DRAWN BY RTT	DATE 25/10/83
CHECKED BY	SCALE 1/4200'
APPROVED BY	

D.D. Hole 83-4  
302 ft @ -50° 573°W

DD Hole 83-3  
30' @ -50° (LOST)

\*DD Hole 83-1  
341.5' @ -50° 573°W

DD Hole 83-2  
202' @ -50° 578°W

DD. Hole 83-5  
141' @ -50° 570°W

530' @ N 27° E To INITIAL  
POSTS  
TRENCH CLAIMS

SKID ROAD


LOGGING ROAD

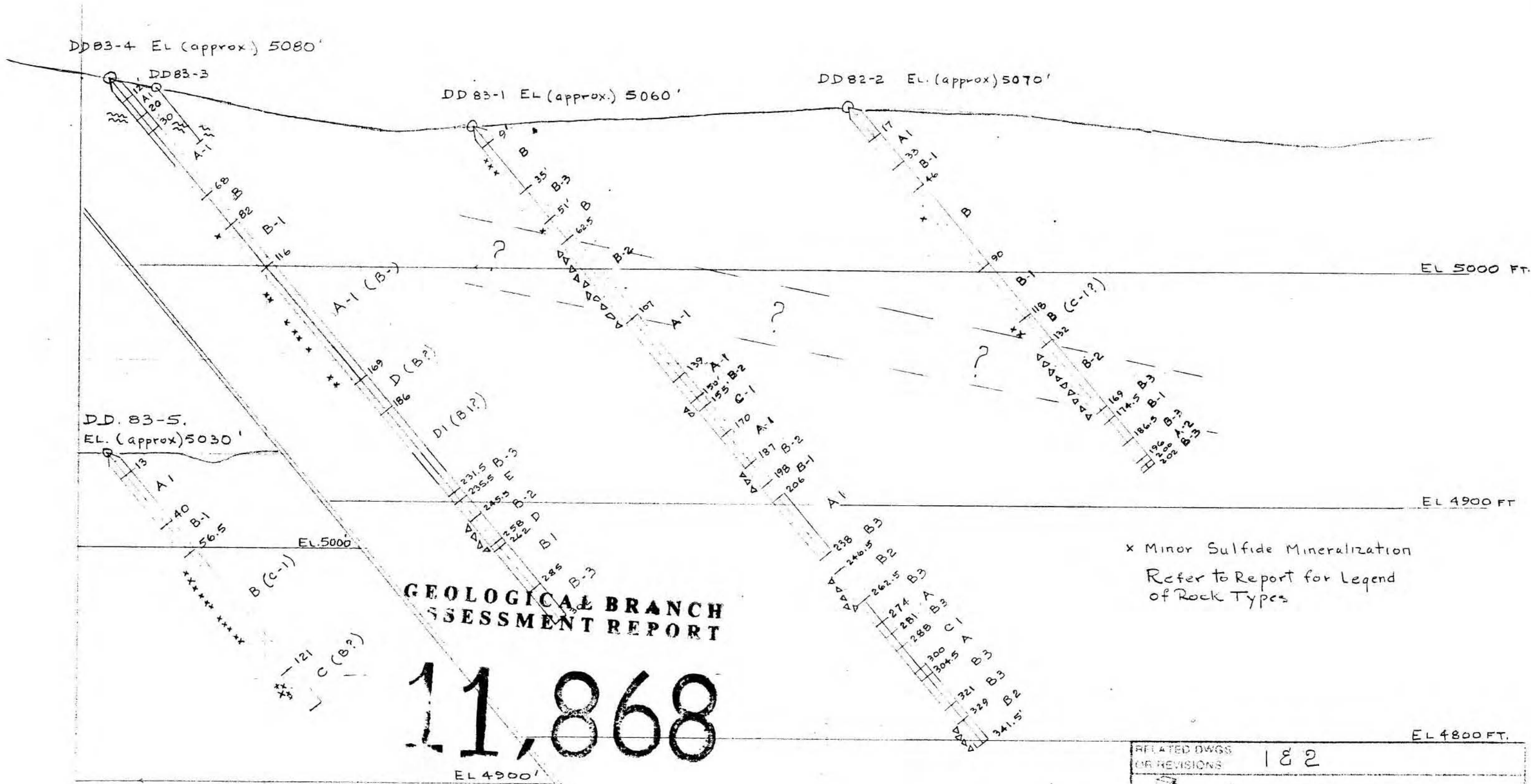
TRENCH

TRENCH

GEOLOGICAL BRANCH  
ASSESSMENT REPORT


11,868

RELATED DWGS. (OR REVISIONS)	1 & 3
 Transman Mining Services Ltd 460-625 HOWE STREET VANCOUVER B.C. V6Z 2T6	
SABLE RESOURCES LTD	
PLAN SHOWING LOCATION OF D.D. HOLES 83-1, 2, 3, 4 & 5	
DRAWN BY: R.T.T.	DATE: OCT 25/83
CHECKED BY:	SCALE: 1" = 40'
APPROVED BY:	2



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,868**

RELATED DWGS OR REVISIONS	1 & 2
 Tremaman Mining Services Ltd 960 626 HOWE STREET VANCOUVER, B.C. V6C 1T6	
<b>SABLE RESOURCES LTD</b>	
GRAPHIC LOGS OF DD HOLES 83-1, 2, 3, 4 & 5	
DATE: RTT 10/25/10/83	
SCALE: 1"=40'	3













Trenaman Mining Services Ltd.

DIAMOND DRILL LOG

Property: Tren Claims	Core Size: B.Q. Wireline	Page 1 of 1	Hole No.: 83-3
N.T.S.: M82E/10E	Logged By: R.T. Trenaman	Collared:	
Elevation: 5076 ft. approx.	Bearing: 253°	Completed:	
Latitude:		Depth: 30 ft.	Dip: 50°W
Departure:			

Ft./M.	Rec'y	Description	Sample Length		Sample No.	Assays
			From	To		
0	8.0	Casing				
8.0	30.0	Core recovery 40% Light grey limey phyllite - dull white thin lenses of limestone interbedded with dark grey phyllite partings, crumpled folding parallel to 45° to core				
		No core recovery possible beyond this point.				
		End of hole.				













