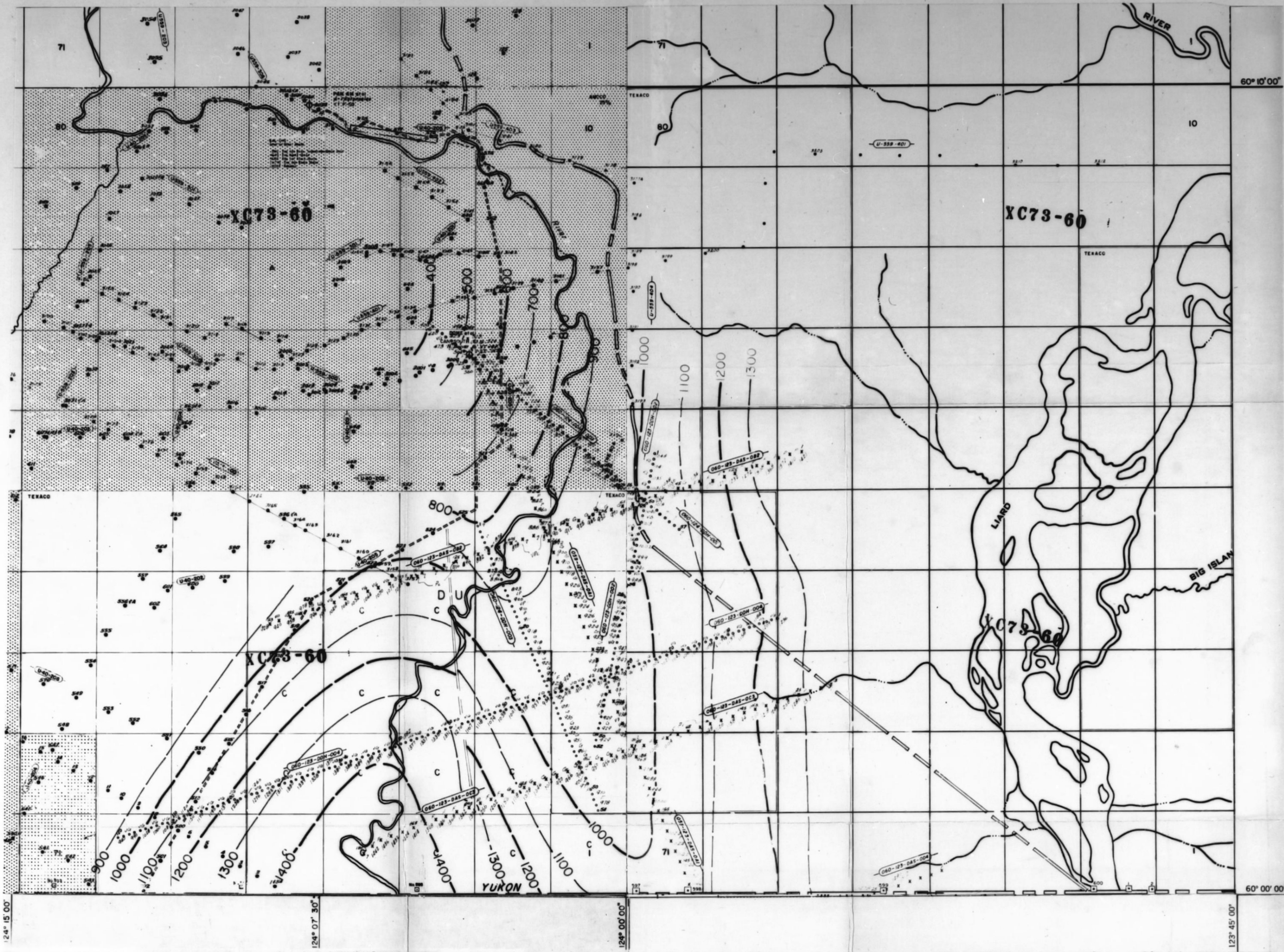
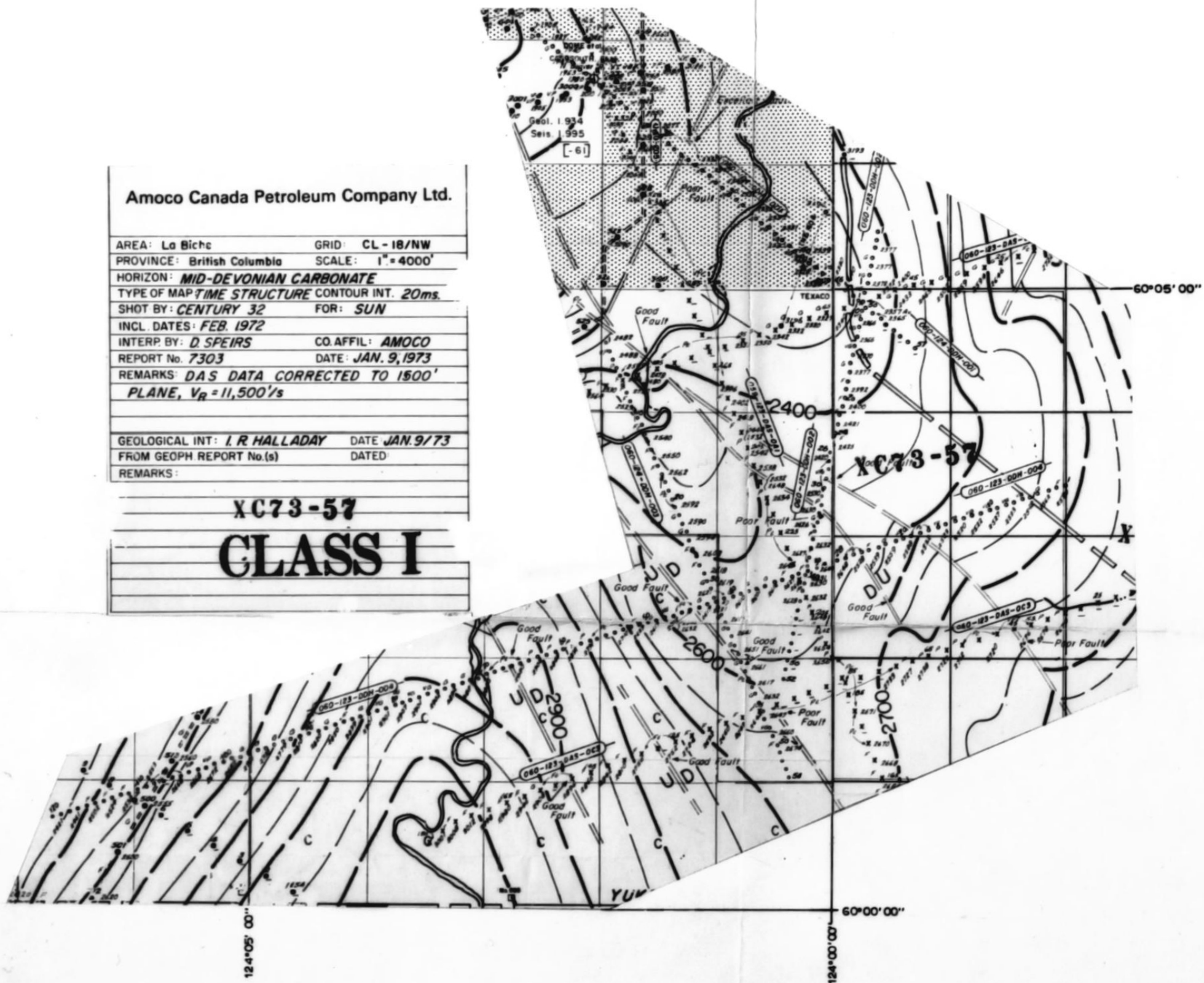
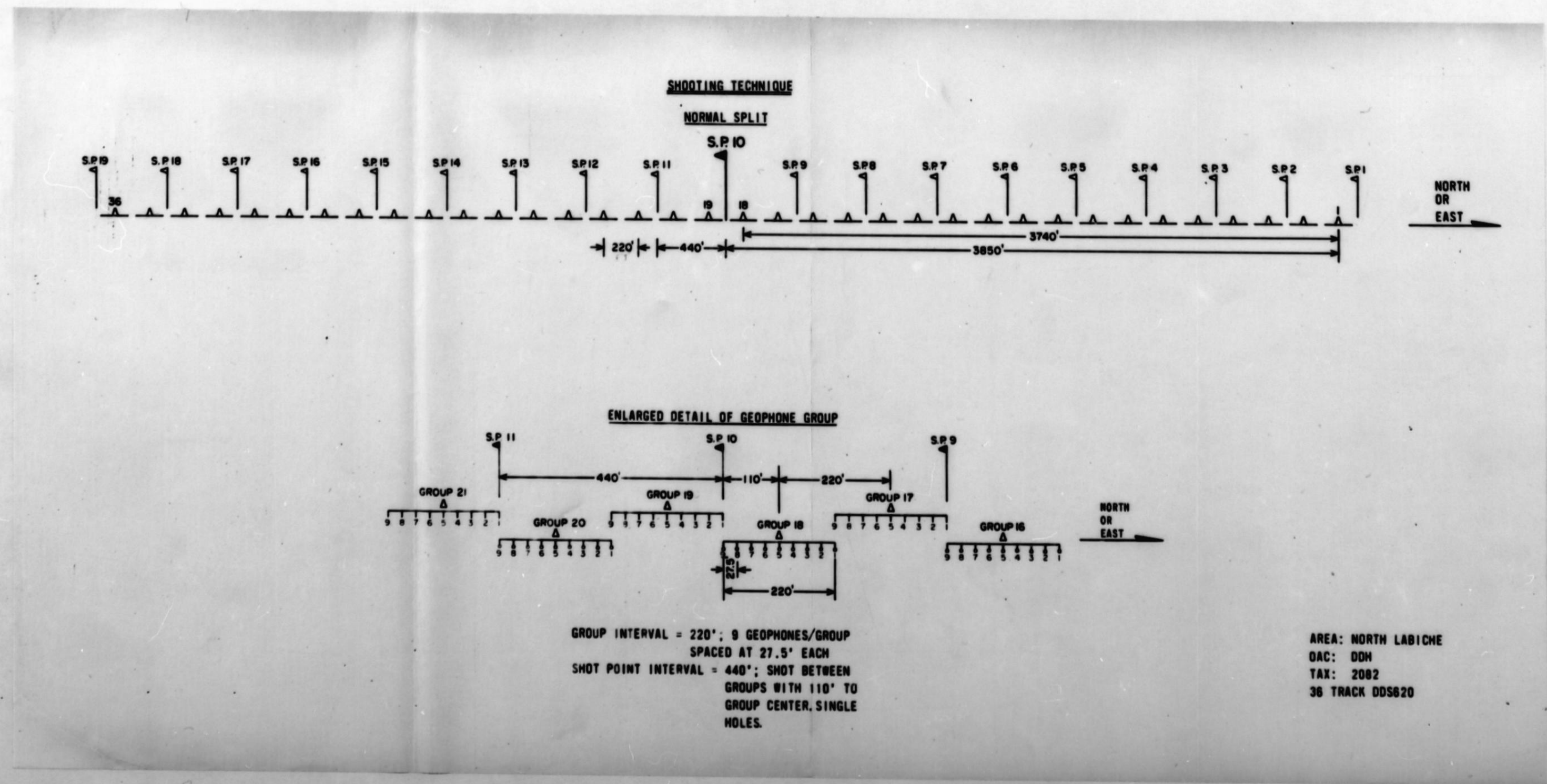
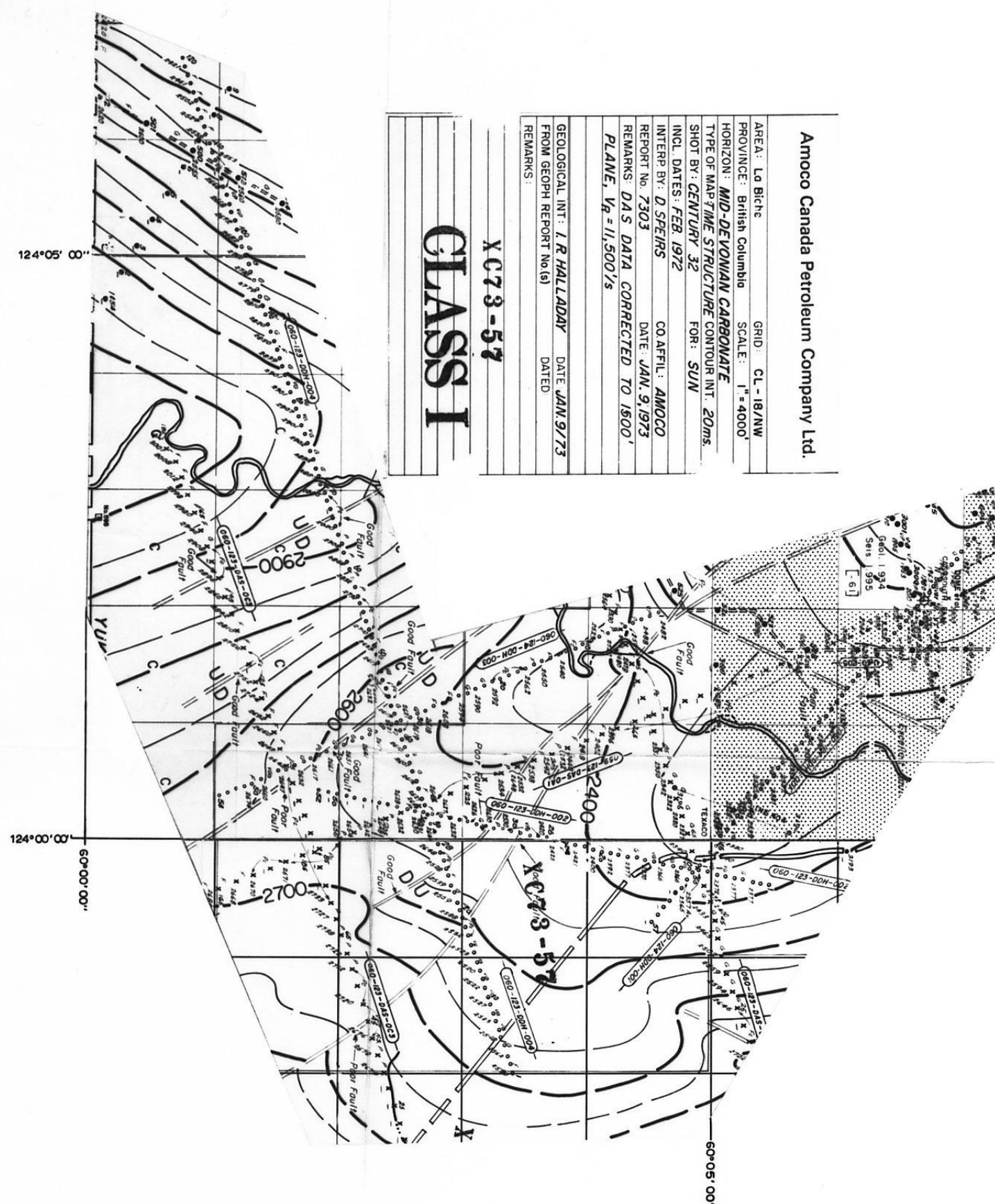




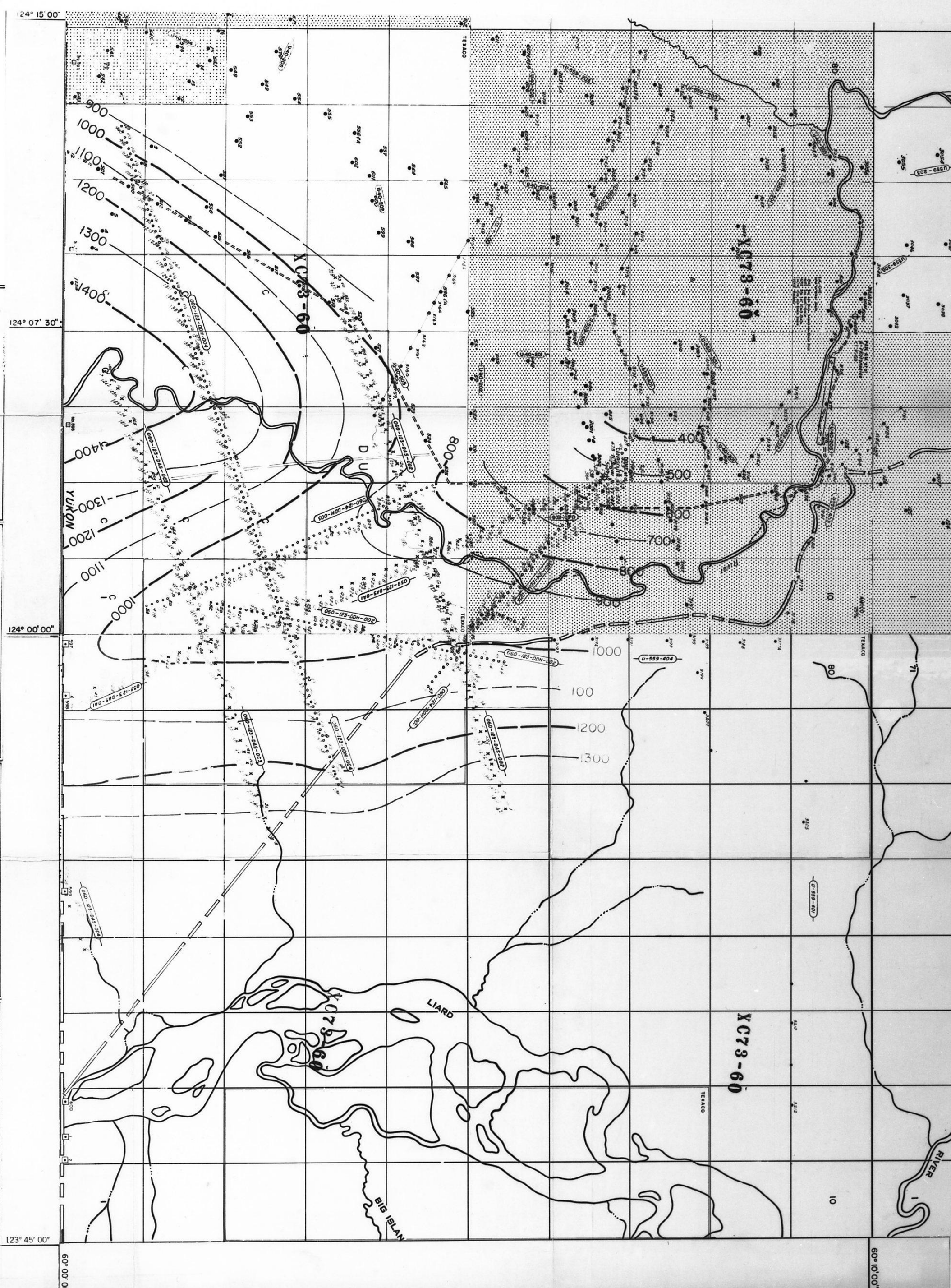
Amoco Canada Petroleum Company Ltd.		Amoco Canada Petroleum Company Ltd.		Amoco Canada Petroleum Company Ltd.		Amoco Canada Petroleum Company Ltd.	
AREA: Beaver River	GRID: CL-17/NE	AREA: Kootenay	GRID: CM-17/SE	AREA: Le Biche	GRID: CL-18/NW	AREA: Fisherman Lake	GRID: CM-18/SW
PROVINCE: British Columbia	SCALE: 1"=4000'	PROVINCE: Yukon and N.W.T.	SCALE: 1"=4000'	PROVINCE: British Columbia	SCALE: 1"=4000'	PROVINCE: N.W.T.	SCALE: 1"=4000'
HORIZON: TOP OF MATTISON		HORIZON: TOP OF MATTISON		HORIZON: TOP OF MATTISON		HORIZON: TOP OF MATTISON	
TYPE OF MAP: S.C.M.	CONTOUR INT. 100ms	TYPE OF MAP: S.C.M.	CONTOUR INT. 100ms	TYPE OF MAP: S.C.M.	CONTOUR INT. 100ms	TYPE OF MAP: S.C.M.	CONTOUR INT. 100ms
SHOT BY: CENT. 32	FOR: SUN	SHOT BY: W-63, CENT-32	FOR: AMOCO, SUN	SHOT BY: CENTURY 32	FOR: SUN	SHOT BY: W-63, CENT-32	FOR: AMOCO, SUN
INCL. DATES: FEB. 1972		INCL. DATES: AUG-SEPT. 1972; FEB. 1973		INCL. DATES: FEB. 1972		INCL. DATES: AUG-SEPT. 1972; FEB. 1973	
INTERP. BY: D. SPEIRS	CO. AFFIL.: AMOCO	INTERP. BY: D. SPEIRS	CO. AFFIL.: AMOCO	INTERP. BY: D. SPEIRS	CO. AFFIL.: AMOCO	INTERP. BY: D. SPEIRS	CO. AFFIL.: AMOCO
REPORT No. 7303	DATE: JAN. 9, 1973	REPORT No. 7303	DATE: JAN. 9, 1973	REPORT No. 7303	DATE: JAN. 9, 1973	REPORT No. 7303	DATE: JAN. 9, 1973
REMARKS:		REMARKS:		REMARKS:		REMARKS:	
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REMARKS:		REMARKS:		REMARKS:		REMARKS:	



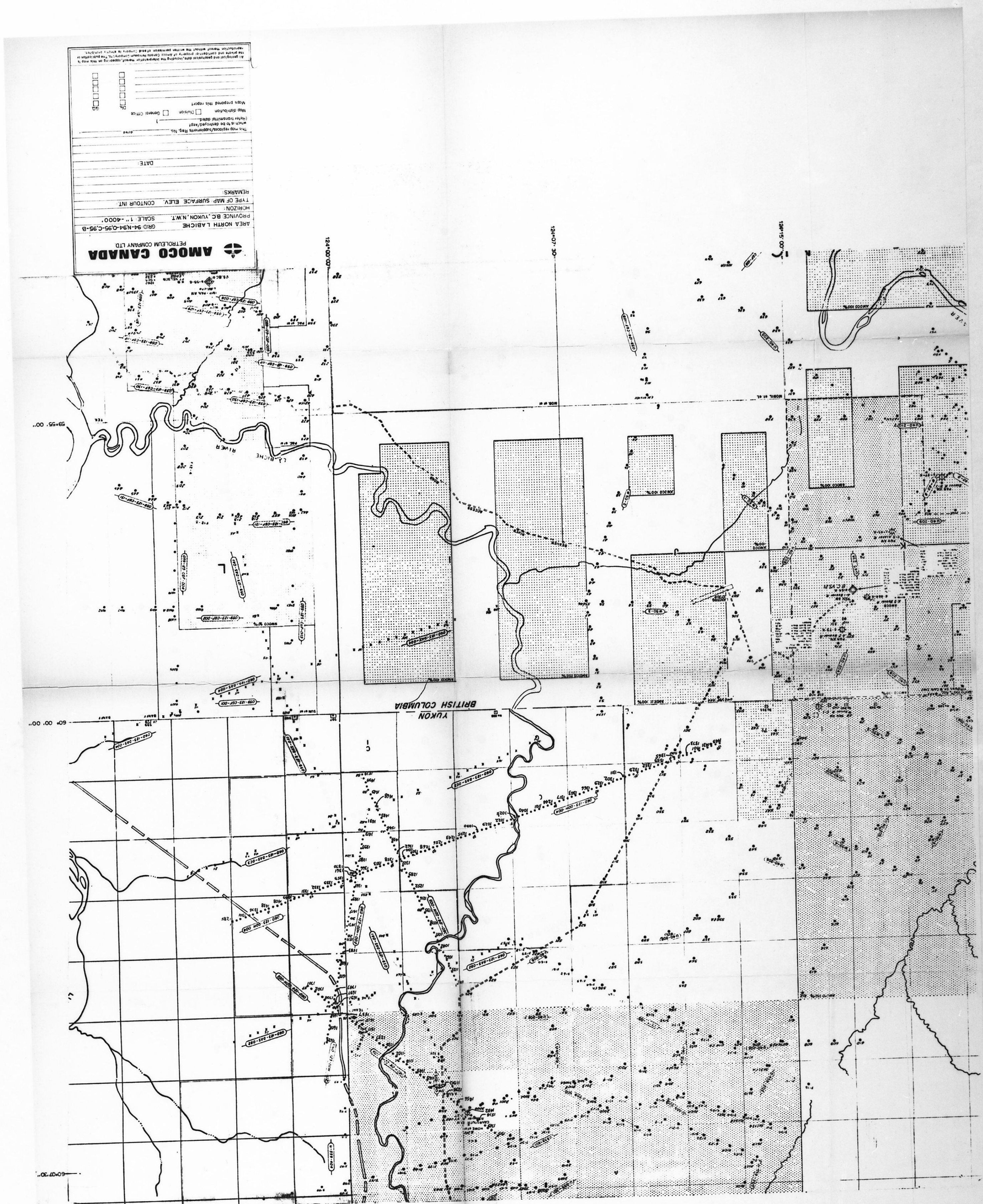
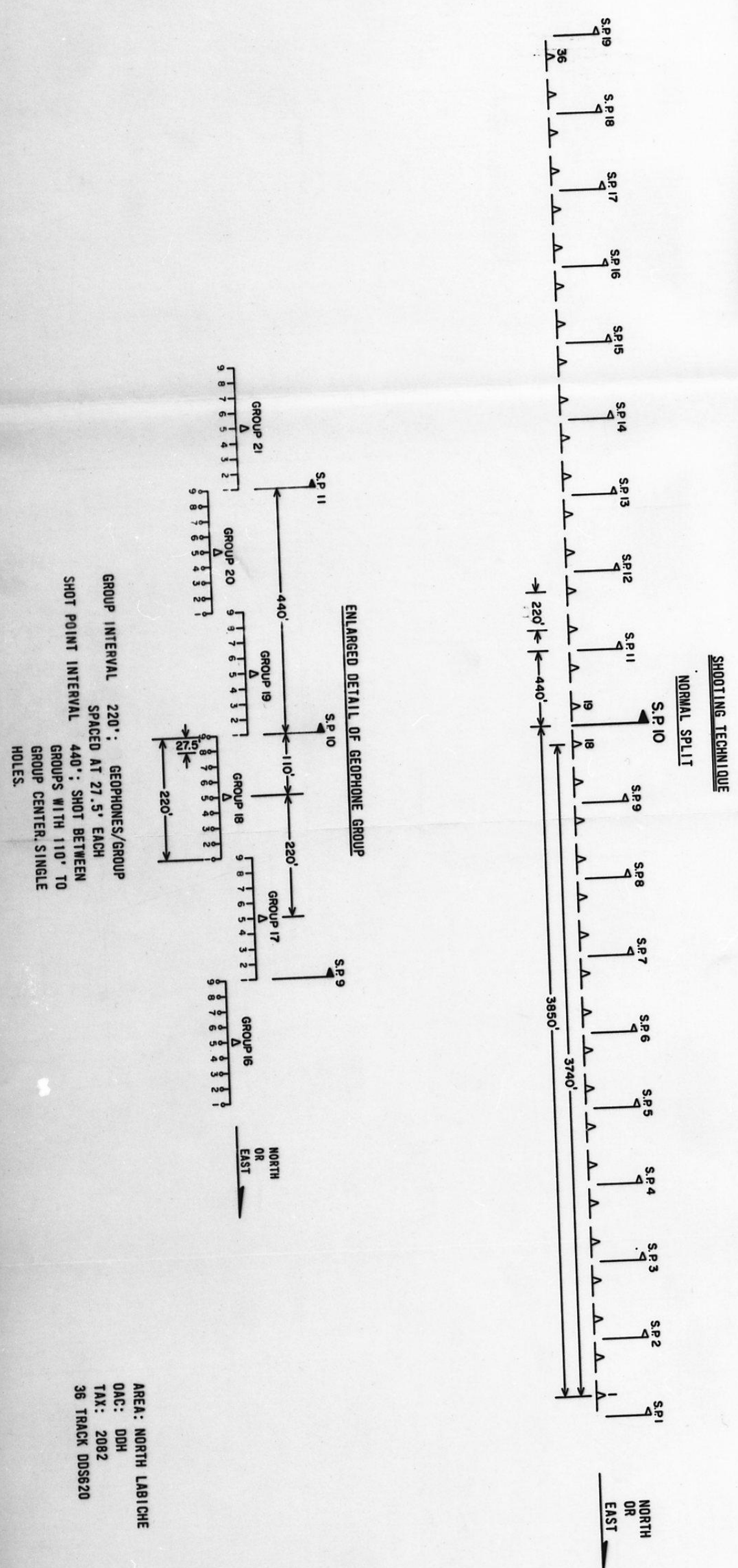
XC73-57
CLASS I

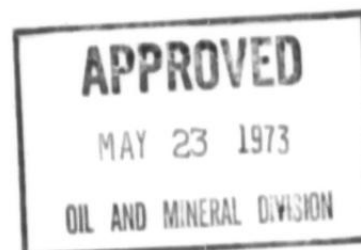
Amoco Canada Petroleum Company Ltd.

AREA: LA BRET	GRID: CL-18/AN
PROVINCE: BRITISH COLUMBIA	SCALE: 1" = 4000'
HORIZONTAL: TOP OF MATTSON	VERTICAL: 1000'
SHOT BY: CENTURY 32	FOR: SUN
INCL. DATES: FEB 1972	CO. APTL: AMOCO
REPORT NO: 7303	DATE: JAN 9, 1973
REMARKS: DATA CORRECTED TO 1800'	
CLASS: 1A-11/1800'	DATE: JAN 9, 1973
FROM: DEPT. REPORT NO. 1	DATE:
REMARKS:	



Amoco Canada Petroleum Company Ltd.		Amoco Canada Petroleum Company Ltd.		Amoco Canada Petroleum Company Ltd.	
AREA: LA BRET	GRID: CL-18/AN	AREA: LA BRET	GRID: CL-18/AN	AREA: LA BRET	GRID: CL-18/AN
PROVINCE: BRITISH COLUMBIA	SCALE: 1" = 4000'	PROVINCE: BRITISH COLUMBIA	SCALE: 1" = 4000'	PROVINCE: BRITISH COLUMBIA	SCALE: 1" = 4000'
HORIZONTAL: TOP OF MATTSON	VERTICAL: 1000'	HORIZONTAL: TOP OF MATTSON	VERTICAL: 1000'	HORIZONTAL: TOP OF MATTSON	VERTICAL: 1000'
SHOT BY: CENTURY 32	FOR: SUN	SHOT BY: CENTURY 32	FOR: SUN	SHOT BY: CENTURY 32	FOR: SUN
INCL. DATES: FEB 1972	CO. APTL: AMOCO	INCL. DATES: FEB 1972	CO. APTL: AMOCO	INCL. DATES: FEB 1972	CO. APTL: AMOCO
REPORT NO: 7303	DATE: JAN 9, 1973	REPORT NO: 7303	DATE: JAN 9, 1973	REPORT NO: 7303	DATE: JAN 9, 1973
REMARKS:		REMARKS:		REMARKS:	
CLASS: 1A-11/1800'	DATE: JAN 9, 1973	CLASS: 1A-11/1800'	DATE: JAN 9, 1973	CLASS: 1A-11/1800'	DATE: JAN 9, 1973
FROM: DEPT. REPORT NO. 1	DATE:	FROM: DEPT. REPORT NO. 1	DATE:	FROM: DEPT. REPORT NO. 1	DATE:
REMARKS:		REMARKS:		REMARKS:	
XC73-60		XC73-60		XC73-60	
CLASS I		CLASS I		CLASS I	





REPORT OF GEOPHYSICAL SURVEY
REPORT OF SEISMOGRAPH REFLECTION SURVEY

Conducted by 060-06-01-126

Western Geophysical Company of Canada Ltd.

for

Amoco Canada Petroleum Company Ltd.

August 22, 1972 to September 13, 1972

On and off Federal Leases 411 and 442, National Topographic Grid 95C

Prepared by

C.W. Allison
District Geophysicist

January 10, 1973

Submitted in support of application for credit; see affidavit made
by _____ of _____, 1972 and in
accordance with work obligations under Section 54, Subsection 1(f)
of the Regulations.

TABLE OF CONTENTS

	<u>Page</u>
Title Page	1
Table of Contents	2
Introduction	3
Locality Map	4
Statistical Data	5
Field Procedure	
Data Processing	
Results and Interpretation	
Enclosures in Pocket: Surface Elevations Spread Diagram	
Top Mid Devonian Carbonate Map: Registration No.	XC 73-56
Top Mattson: Registration No.	XC 73-59

Statistical Data

A. Personnel

(1) Recording:

1	Observer
1	Junior Observer
1	Shooter
1	Shooter's Helper
2	Cable Truck Driver
2	Helpers
1	Surveyor
<u>1</u>	Rodman

TOTAL 10 MEN

(2) Drilling:

3	Drillers
<u>3</u>	Helpers

TOTAL 6 MEN

(3) Line Cutting:

3 Bulldozer Operators

(4) Camp:

1	Party Manager
1	Clerk
1	Mechanic
1	Supply Man
1	Cook
1	Cook's Helper
<u>1</u>	Camp Attendant

TOTAL 7 MEN

GRAND TOTAL = 23 MEN

B. Equipment

	<u>Size</u>
1 Recorder (RN-110)	3 ton
1 Shooting Truck (RN-110)	
2 Cable Trucks (RN-110)	
1 Surveying Unit (RN-110)	
1 Supply Unit (RN-110)	
5 Fuel Storage Tanks (RN-110)	1500 gal.
3 Shothole Drills (RN-110)	10 ton
3 Water Trucks (RN-110)	10 ton
4 Foldout Campers on tracks (RN-110)	
1 Shop and Power Plant (RN-110)	
1 Bulldozer D6C wide pad	
2 Bulldozers D7	
3 Storage Tanks	2000 gal.

C. Mobilization Dates and Production

The survey consisted of four lines (DDH-001, DDH-002, DDH-003 and DDH-004), for a total of 23 miles. Approximately 300 shotpoints were drilled.

The recording started September 1, 1972 and was completed September 12, 1972. The average daily production was 1.8 miles.

Data Processing

Elevation corrections were applied to a +1500 foot plane using a replacement velocity of 11,500 ft./sec. and time-delay corrections to account for the presence of drift. Trace muting, dynamic corrections and average amplitude scaling (window 400 ms.) were applied prior to time and space variant filtering, sorting and compositing. All processing was performed 'inhouse'.

Results and Interpretation

Objective: To confirm the existence of and detail the previously mapped N. LaBiche anomaly.

Results: the 900% multifold reflection seismic was of considerably better quality than the normal reflection seismic obtained in the Liard Area.

Due to the more direct tie to Amoco's 100% Beaver River shooting, the Mid-Devonian carbonate pick appears to be considerably deeper than was previously interpreted.

Conclusions

The Mid Devonian carbonate horizon at North LaBiche is no longer an economically favourable play.

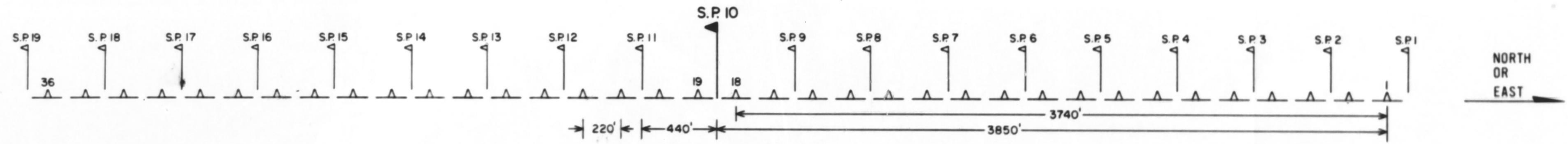
Respectfully submitted,

AMOCO CANADA PETROLEUM COMPANY LTD.

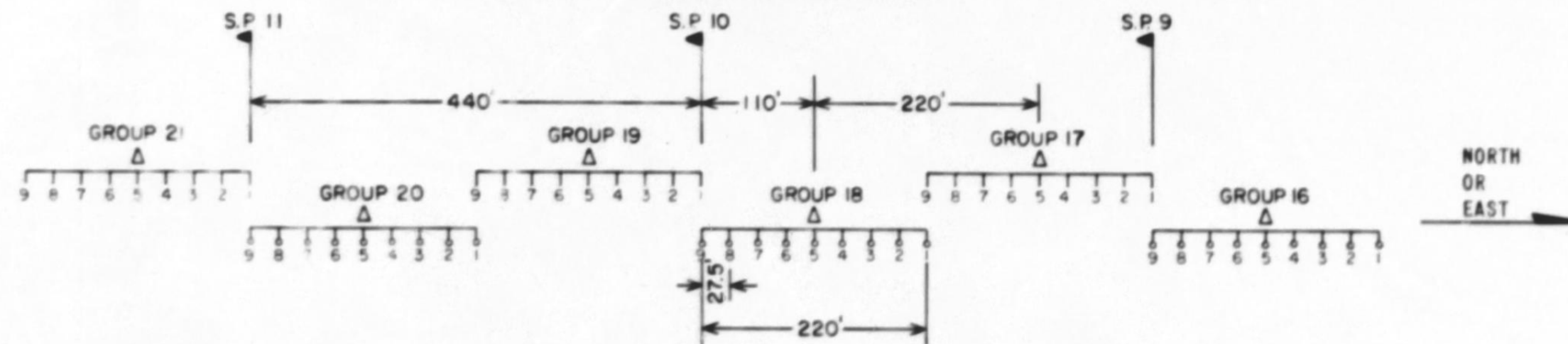
By: 
C.W. Allison
District Geophysicist

SHOOTING TECHNIQUE

NORMAL SPLIT

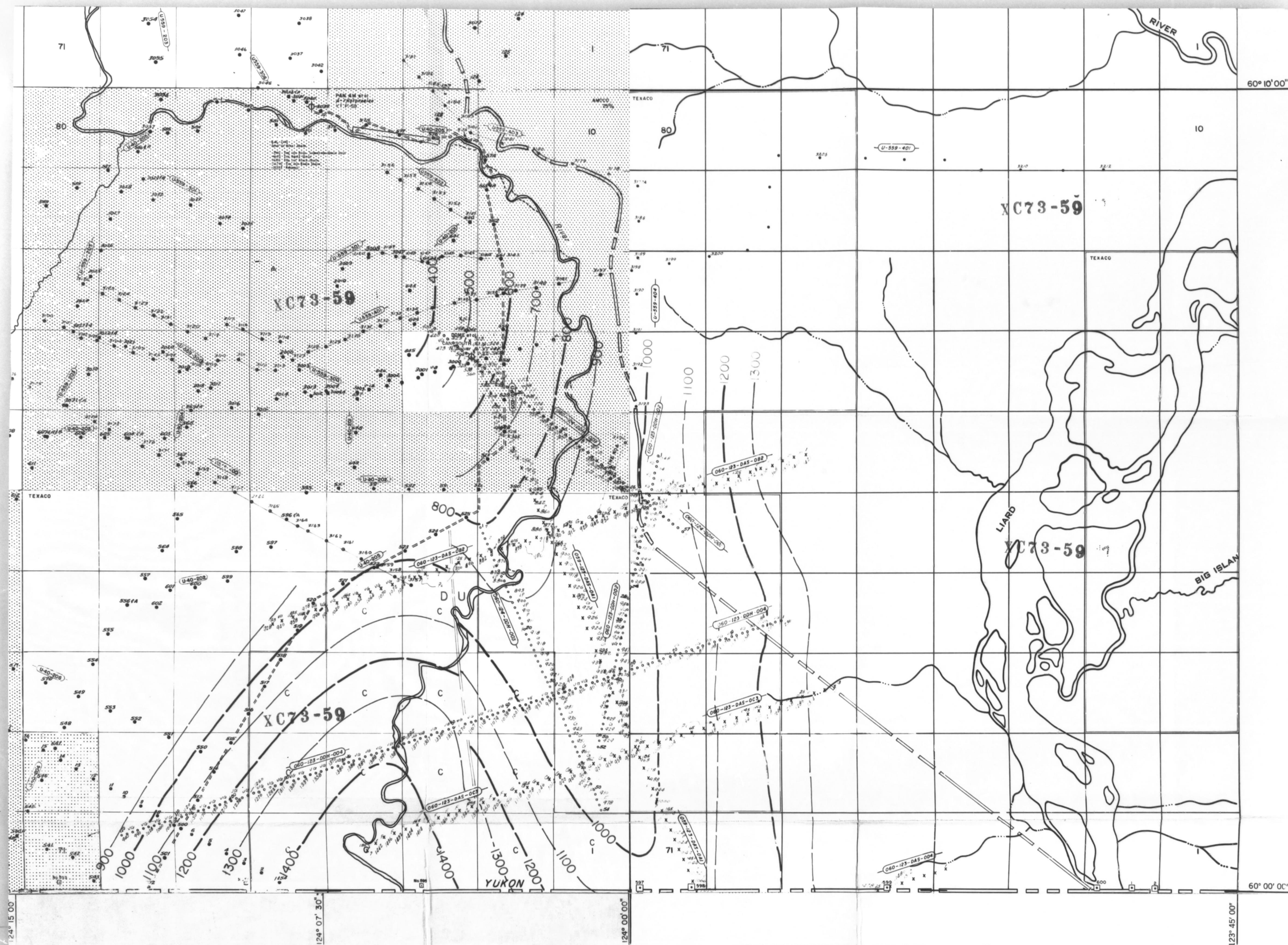


ENLARGED DETAIL OF GEOPHONE GROUP



GROUP INTERVAL = 220'; 9 GEOPHONES/GROUP
SPACED AT 27.5' EACH
SHOT POINT INTERVAL = 440'; SHOT BETWEEN
GROUPS WITH 110' TO
GROUP CENTER. SINGLE
HOLES.

AREA: NORTH LABICHE
OAC: DDH
TAX: 2082
36 TRACK DDS620



Amoco Canada Petroleum Company Ltd.

AREA: Beaver River GRID: CL-17/NE
PROVINCE: British Columbia SCALE: 1"=4000'
HORIZON: TOP OF MATTSON
TYPE OF MAP: S.C.M. CONTOUR INT. 100ms
SHOT BY: CENT. 32 FOR: SUN
INCL. DATES: FEB. 1972
INTERP. BY: D. SPEIRS CO. AFFIL: AMOCO
REPORT No. 7303 DATE: JAN. 9, 1973
REMARKS:

GEOLOGICAL INT: I. R. HALLADAY DATE: JAN. 9, 1973
FROM GEOPH. REPORT No(s) DATED:
REMARKS:

Amoco Canada Petroleum Company Ltd.

AREA: La Biche GRID: CL-18/NW
PROVINCE: British Columbia SCALE: 1"=4000'
HORIZON: TOP OF MATTSON
TYPE OF MAP: S.C.M. CONTOUR INT. 100ms
SHOT BY: CENTURY 32 FOR: SUN
INCL. DATES: FEB. 1972
INTERP. BY: D. SPEIRS CO. AFFIL: AMOCO
REPORT No. 7303 DATE: JAN. 9, 1973
REMARKS:

GEOLOGICAL INT: I. R. HALLADAY DATE: JAN. 9, 1973
FROM GEOPH. REPORT No(s) DATED:
REMARKS:

Amoco Canada Petroleum Company Ltd.

AREA: Kofanelee GRID: CM-17/SE
PROVINCE: Yukon and NWT SCALE: 1"=4000'
HORIZON: TOP OF MATTSON
TYPE OF MAP: S.C.M. CONTOUR INT. 100ms
SHOT BY: W-63, CENT.-32 FOR: AMOCO, SUN
INCL. DATES: AUG-SEPT, 1972; FEB. 1972
INTERP. BY: D. SPEIRS CO. AFFIL: AMOCO
REPORT No. 7303 DATE: JAN. 9, 1973
REMARKS:

GEOLOGICAL INT: I. R. HALLADAY DATE: JAN. 9, 1973
FROM GEOPH. REPORT No(s) DATED:
REMARKS:

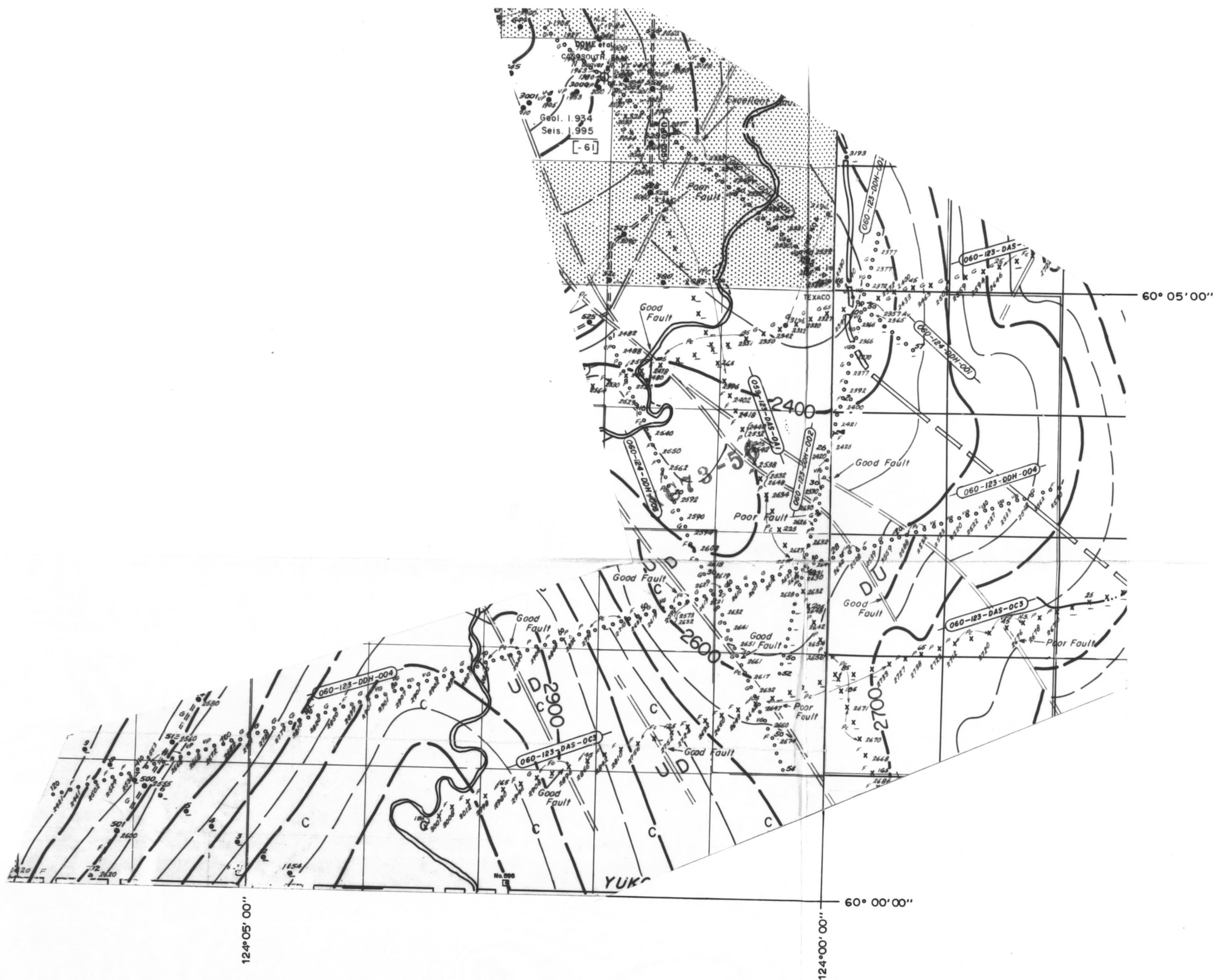
Amoco Canada Petroleum Company Ltd.

AREA: Fisherman Lake GRID: CM-18/SW
PROVINCE: N.W.T. SCALE: 1"=4000'
HORIZON: TOP OF MATTSON
TYPE OF MAP: S.C.M. CONTOUR INT. 100ms
SHOT BY: W-63, CENT.-32 FOR: AMOCO, SUN
INCL. DATES: AUG-SEPT, 1972; FEB. 1972
INTERP. BY: D. SPEIRS CO. AFFIL: AMOCO
REPORT No. 7303 DATE: JAN. 9, 1973
REMARKS:

GEOLOGICAL INT: I. R. HALLADAY DATE: JAN. 9, 1973
FROM GEOPH. REPORT No(s) DATED:

REMARKS: XC73-59

CLASS I



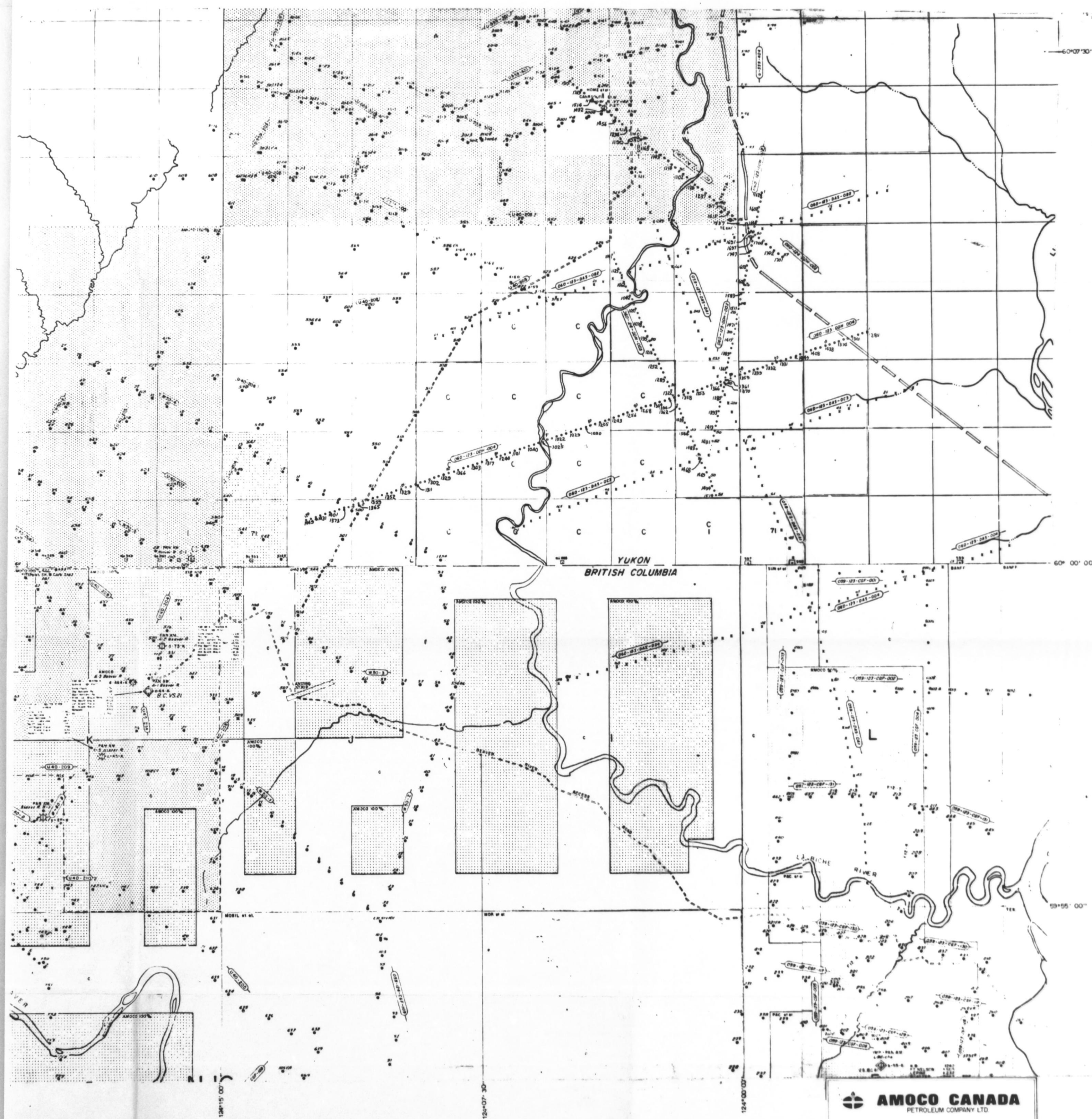
Amoco Canada Petroleum Company Ltd.

AREA: Kotaneelee GRID: CM-17/SE
 PROVINCE: Yukon and NWT SCALE: 1" = 4000'
 HORIZON: TOP OF MID DEVONIAN CARBONATE
 TYPE OF MAP: TIME STRUCTURE CONTOUR INT. 50 MS.
 SHOT BY: W-63, CENT.-32 FOR: AMOCO, SUN
 INCL. DATES: AUG.-SEPT., 1972 ; FEB. 1973
 INTERP. BY: D. SPEIRS CO. AFFIL: AMOCO
 REPORT No. 7303 DATE: JAN. 9, 1973
 REMARKS: DDH AND DAS DATA CORRECTED
 TO 1500' PLANE, $V_R = 11,500'/s$

XC73-56

GEOLOGICAL INT. I.R. HALLIDAY DATE JAN 9/73
 FROM GEOPH. REPORT No.(s) DATED
 REMARKS:

CLASS 1



AMOCO CANADA
PETROLEUM COMPANY LTD.

AREA NORTH LABICHE GRID 94-N34-Q95-C95-B
PROVINCE B.C., YUKON, N.W.T. SCALE 1"=4000'

HORIZON
TYPE OF MAP SURFACE ELEV. CONTOUR INT.
REMARKS

DATE

This map represents/updates Reg. No. _____
which is to be destroyed/kept _____
After transfer/for sale _____

Map distributed ☐ Through ☐ General Office
Map prepared this report _____

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