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REPORT OF GEOPHYSICAL SURVEY

REPORT OF SEISMOGRAPH REFLECTION AND REFRACTION SURVEYS

Conducted by

Western Geophysical Company of Canada Ltd.

for

Abstracted for
Geo-Science Data Index

Amoco Canada Petroleum Company Ltd.

Date _____

January 15th, 1970 to March 16th, 1970

On and off Federal Permits (N.W.T.) 4164, 4165, 4166, 4167,
4168, 4174; N.W.T. Topographic Grids 85 L and 85 K

Prepared By

C. W. Allison

District Geophysicist

November 27th, 1970



Submitted in support of application for credit; see affidavit made by Northern Explorers Ltd., July 27th, 1970 and in accordance with work obligations under Section 54, Sub-section 1(f) of the Regulations.

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Enclosures in Pocket: Surface Elevations Spread Diagram	
Middle Devonian Carbonate Time Structure Maps: Registration Nos: BC-70-1895, 1896, 1897, 1898 and 1899 are attached.	

Introduction

During the winter of 1969-1970 a seismic survey was conducted by Western Geophysical Party F-63 for Amoco Canada Petroleum Company Ltd.

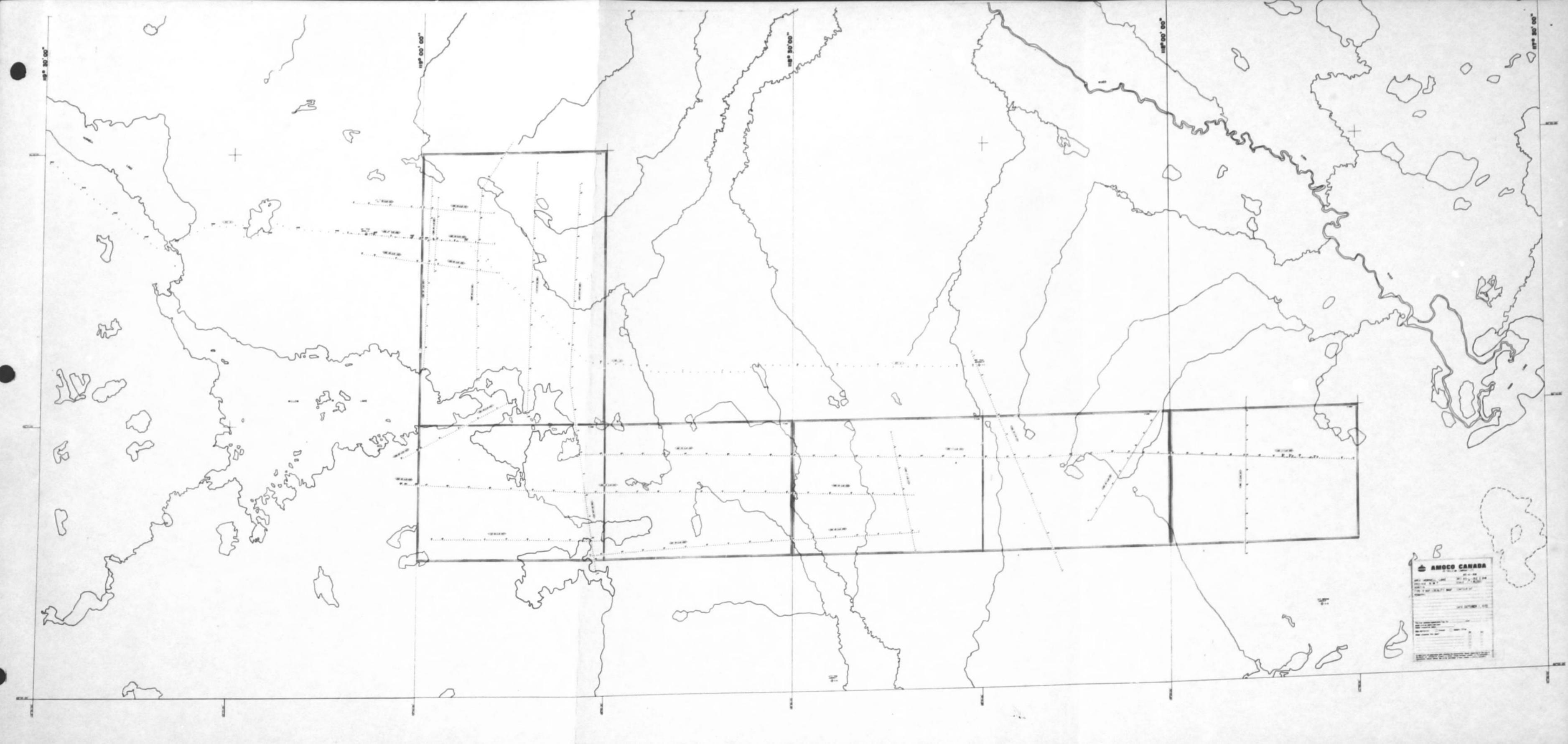
The area covered was on and off Federal Permits (N.W.T.) 4164, 4165, 4166, 4167, 4168 and 4174 held by Northern Explorers Ltd.

A total of 40 days (February 4th, 1970 to March 16th, 1970) were spent by the crew in the area gathering the data that was interpreted in Calgary over an estimated period of 5 months.

Western Geophysical Party F-63 was operating under the supervision of Mr. C. M. Larson, party manager.

Conventional wheel mounted equipment was used throughout the operation both for technical vehicles and for camp moving trucks and trailer facilities. Due to the remoteness of the prospect a Bell 47-J helicopter was stationed with the crew.

No major difficulties or unforeseen problems were encountered in the course of the survey.



Statistical DataA. Production

The survey consisted of 17 seismic lines (CLM-001 to CLM-013 and CLM-015 to CLM-018). 2114 shotpoints were drilled.

The survey began February 4th, 1970 and ended March 16th, 1970 including 5 weather days. The total number of productive days equalled 35, thus giving an average daily production of 5.4 miles.

B. Personnel

1) Recording

1 Observer
1 Junior Observer
1 Shooter
1 Shooter's Helper
2 Cable Truck Drivers
7 Helpers
2 Surveyors
2 Rodman/Chainman

TOTAL 17 men

2) Drilling

6 Drillers
6 Helpers
2 Spare Watertruck Drivers

TOTAL 14 men

3) Line Cutting

10 Bulldozer Operators

TOTAL 10 men

4) Helicopter (Alpine)

1 Pilot
1 Mechanic

TOTAL 2 men

5) Camp

1 Party Manager
1 Clerk
1 Mechanic
1 Supply Man
1 Cook
1 Cook's Helper
1 Camp Attendant

TOTAL 7 men

GRAND TOTAL = 50 men

C. Equipment

1 Recording Truck
1 Shooting Truck
2 Cable Trucks
1 Party Manager's Truck
1 Supply Truck
3 Conventional Shothole Drills
1 Sewell Auger
1 Conventional Drill Mounted on Tracks
8 Water Trucks
1 Foldout Kitchen-Sleeper Trailer
1 Foldout Utility-Sleeper Trailer
1 Foldout Power Supply-Shop Trailer
2 Trailers for Bulldozer Operators
1 Gas Trailer
2 D-6C (wide pad) Bulldozers
3 D-7 Bulldozers
1 Bell 47-J Helicopter

The DDS Model 620 digital instruments manufactured for Pan American Petroleum Corporation were used for recording the information on tape.

D. Mobilization and Recording Dates

Line cutting operations started on December 10th, 1969 and recording on February 4th, 1970. The program was completed on March 16th, 1970.

E. Navigation

The horizontal and vertical survey ran from triangulation station "Will" (Lat. $62^{\circ}01'32''$, Long. $118^{\circ}53'44''$). Azimuth control was obtained from celestial observations. Wild T1A theodolites were used for surveying.

F. Conditions

No major or unforeseen problems were encountered in the area. The operation was hampered somewhat by the numerous creeks and steep slopes of the Horn Plateau, as well as some days of bad weather.

Field Procedure

The area was surveyed by conventional reflection method, 600% CDP, apart from Line CLM-107 and the eastern portion of Line CLM-005 (from SP 55 to 139) where the inline refraction method was also employed (see spread diagram in pocket) using 300% multifold coverage.

Single shot holes were drilled with a normal charge size of 2.5 pounds at 40 feet.

The data that appear on the subsurface maps are vertical reflection times from a +2000 foot datum plane.

Data Processing

Elevation corrections were applied to a +2000 plane using a 7000 foot per second replacement velocity. Trace muting, dynamic corrections (NMO), maximum amplitude scaling (window: .500 to .900 seconds) and frequency filtering (15-25-40-80) were also applied before trace sorting, compositing and displaying the data. All processing was performed by Amoco Canada Petroleum Company Ltd. in Calgary.

Results and Interpretation

Objectives: To evaluate the area for the presence of Keg River patch reef on the Middle Devonian Carbonate platform (Lonely Bay Limestone), Rainbow type pinnacle reefs grown through the salt on the Ernestina dolomite, and structural traps involving the Chinchaga dolomite.

Results: The detailed seismic survey confirmed that anomaly 26-C-69 is located in a salt collapse channel running NE-SW. The period of salt solution apparently extends from Devonian to Lower Cretaceous times as shown by the decreasing amount of collapse with younger age. The evaluation of anomaly 26-C-69 pictures a reef-like relief on the Lonely Bay Limestone platform with only 100 feet of vertical and 270 acres of areal closures. The lack of isopaching in the drape over the anomaly and the absence of a basement reflection appears to dispute its reef nature.

While some of the structural reliefs and depressions recorded can be shown to coincide with topographic features or near surface velocity anomalies, others may have similar origin. However due to localized permafrost cover near surface anomalies are not always detectable.

Conclusions: The results of the survey are negative, inasmuch as hydrocarbon traps have not been found in dimensions large enough to justify further exploration.

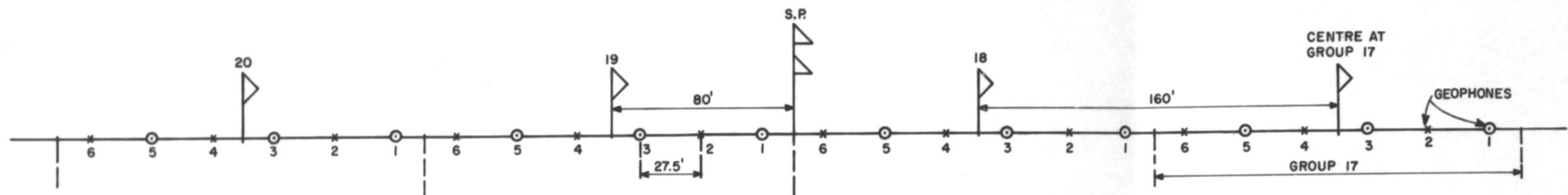
Respectfully submitted,

AMOCO CANADA PETROLEUM COMPANY LTD.

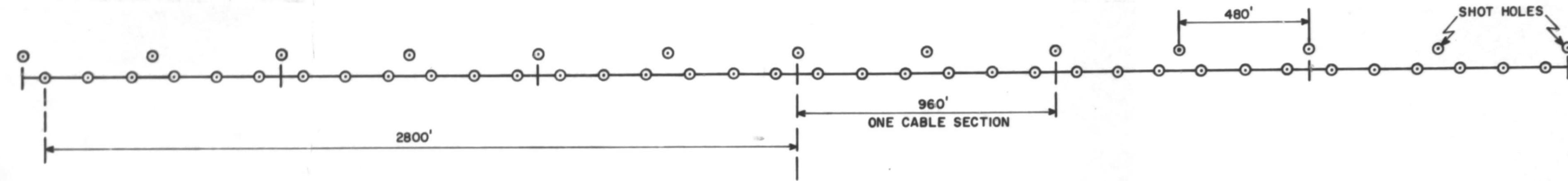
By:


C. W. Allison
District Geophysicist

AREA: HORNELL LAKE
 GEOPHONE TYPE: L-12, 8 CPS
 SPREAD DIAGRAM
 Scale: 1" = 50'



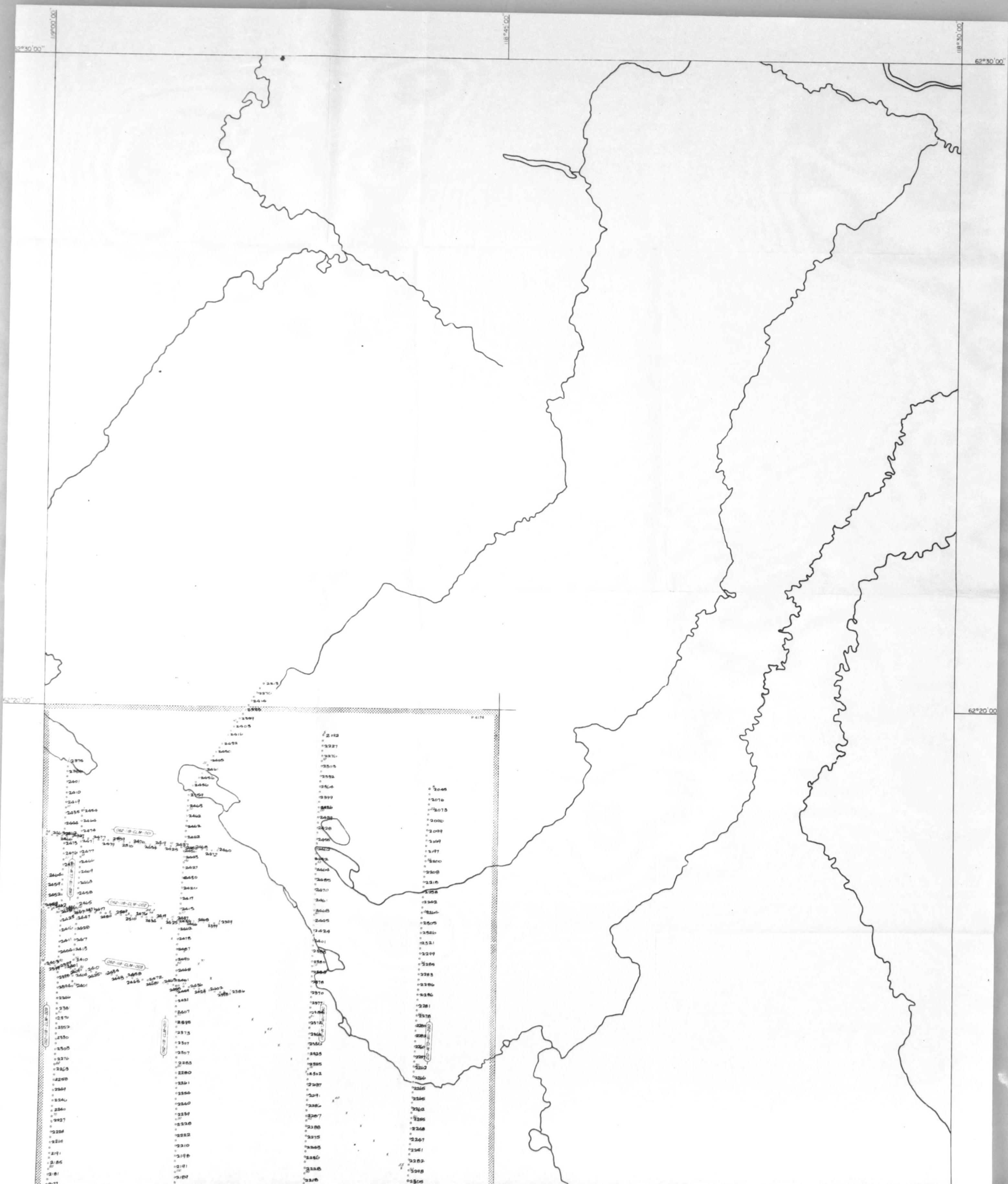
600 % CDP, 160 FT. GROUP INTERVAL
 Scale: 1" = 400'



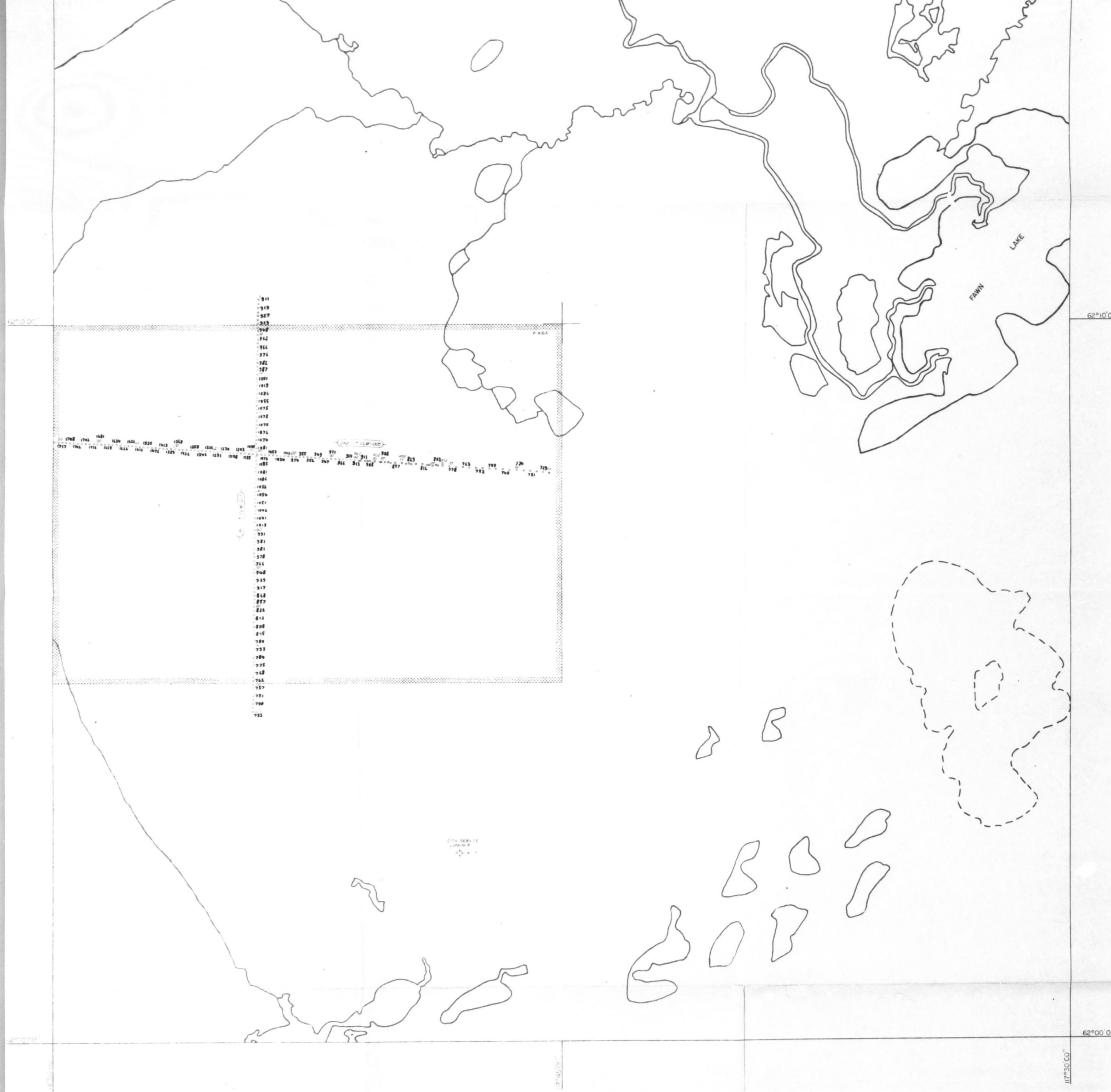
NOTE: 110' GROUP INTERVAL SIMILAR
 TO ABOVE: SP SPACING: 330'
 SPREAD LENGTH: 1925'
 GEOPHONE SPACING 18.4'

INLINE REFRACTION LAYOUT:

FROM EVERY THIRD REFLECTION SP. A 36 TRACE
 SINGLE ENDER IS SHOT IN BOTH DIRECTIONS
 SPREAD LENGTH: 2905'; GROUP INTERVAL: 110'

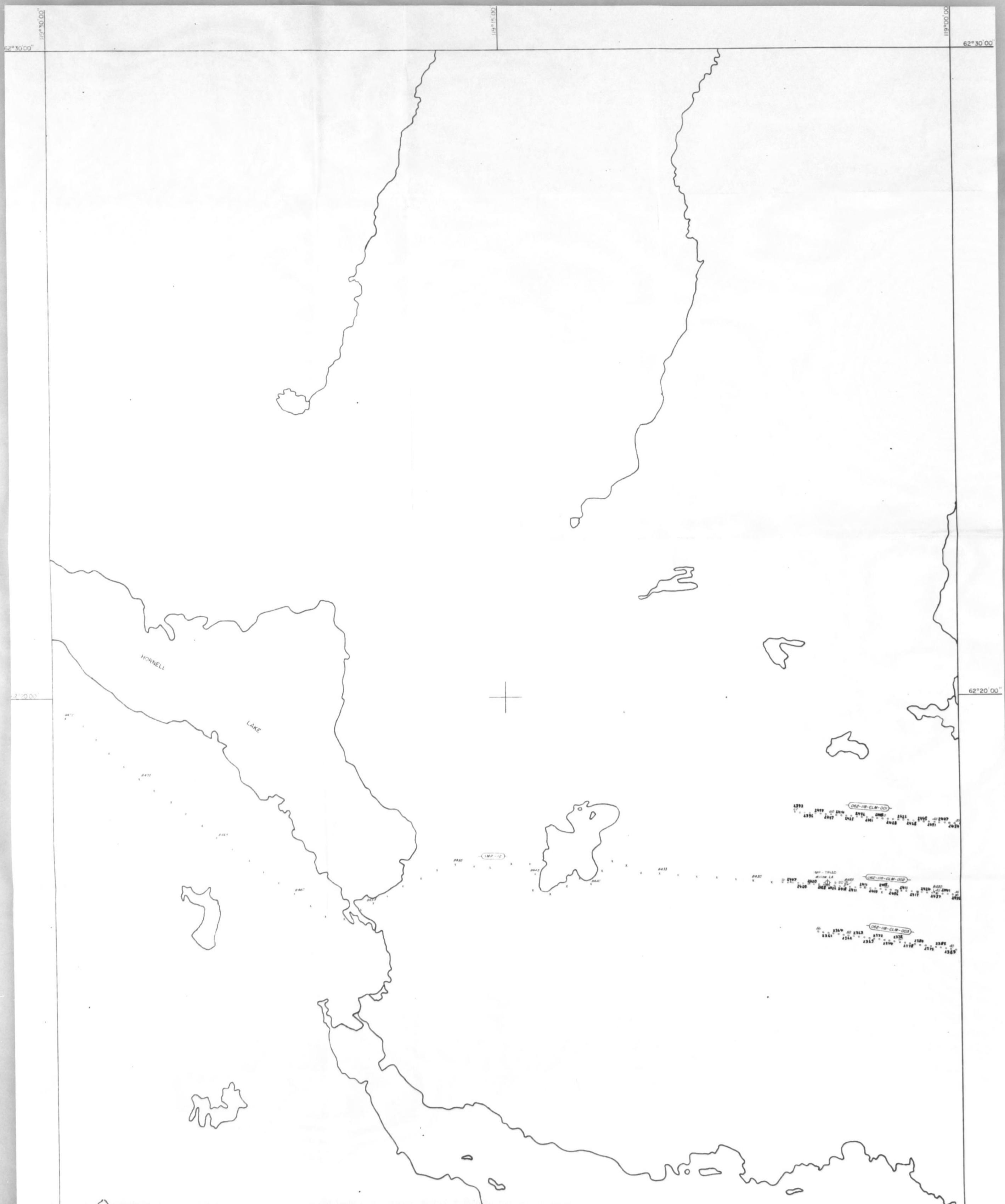


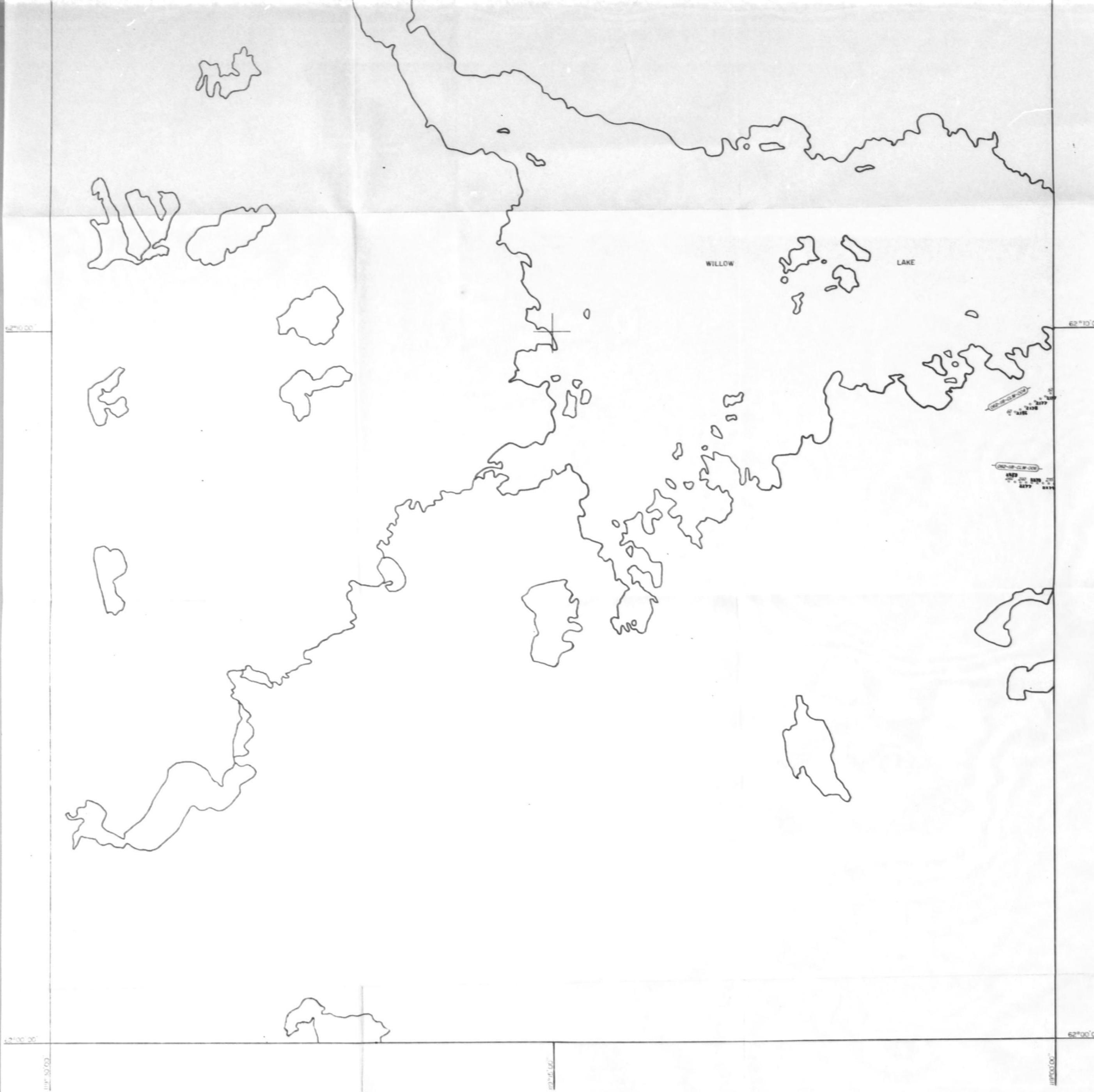




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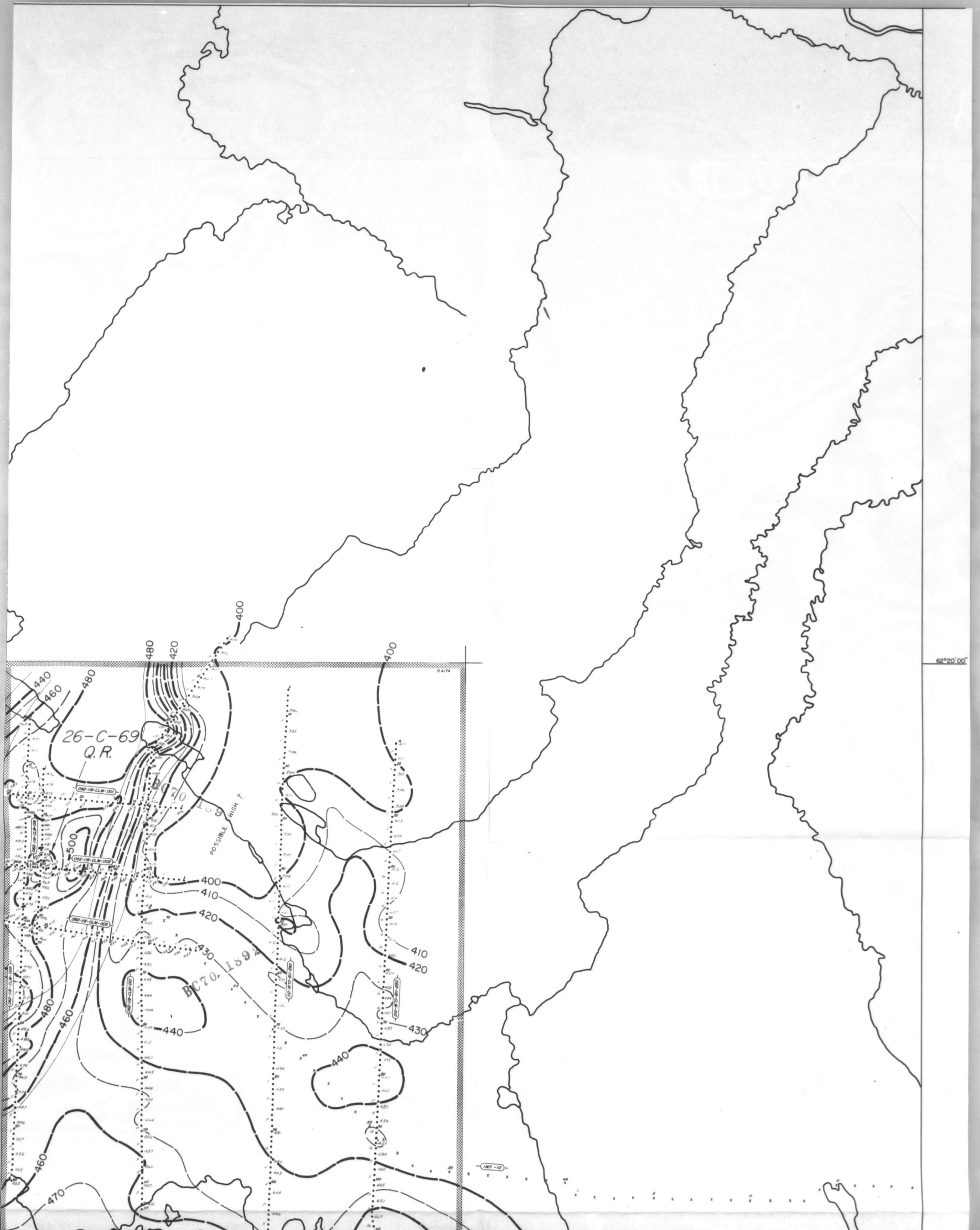
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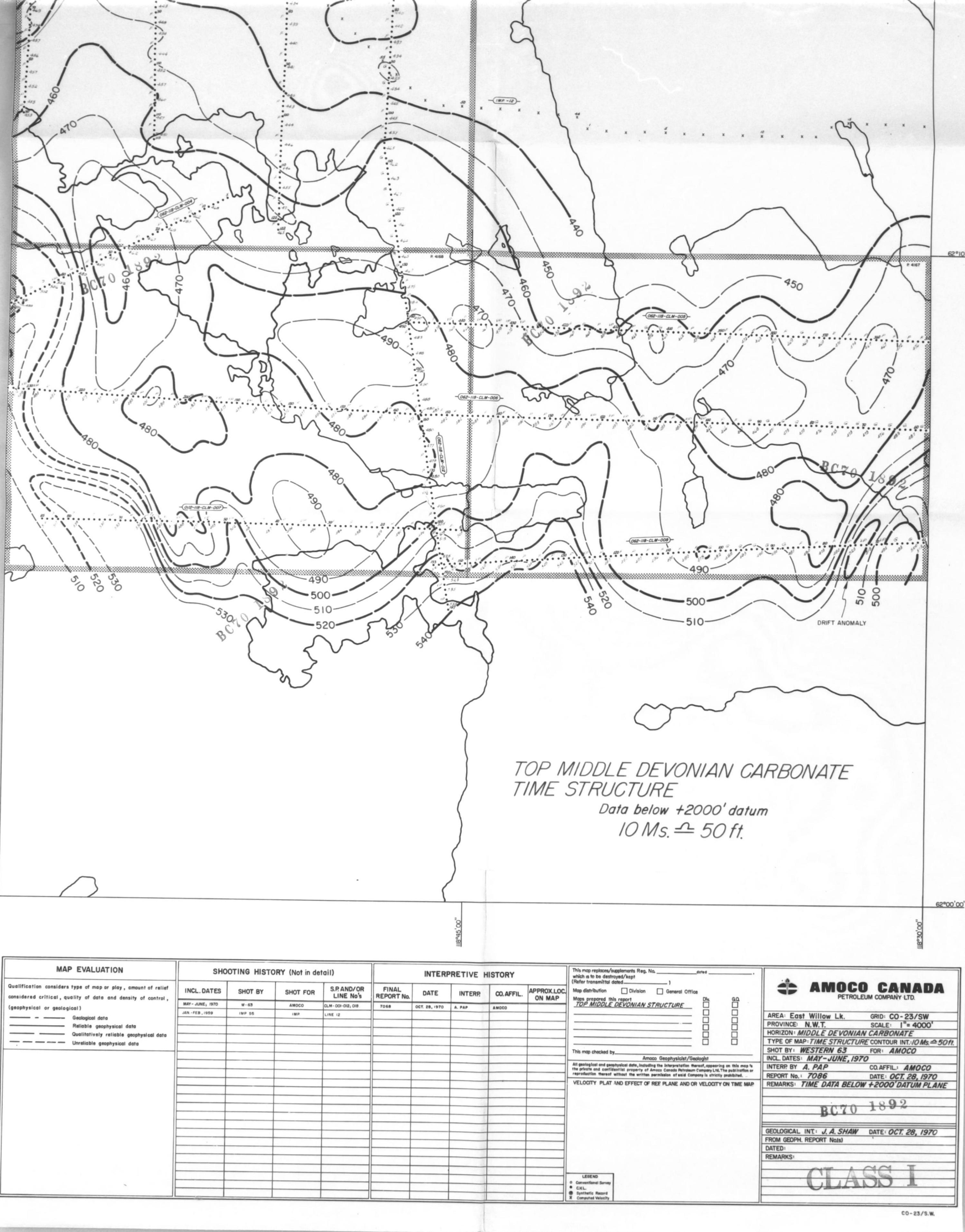


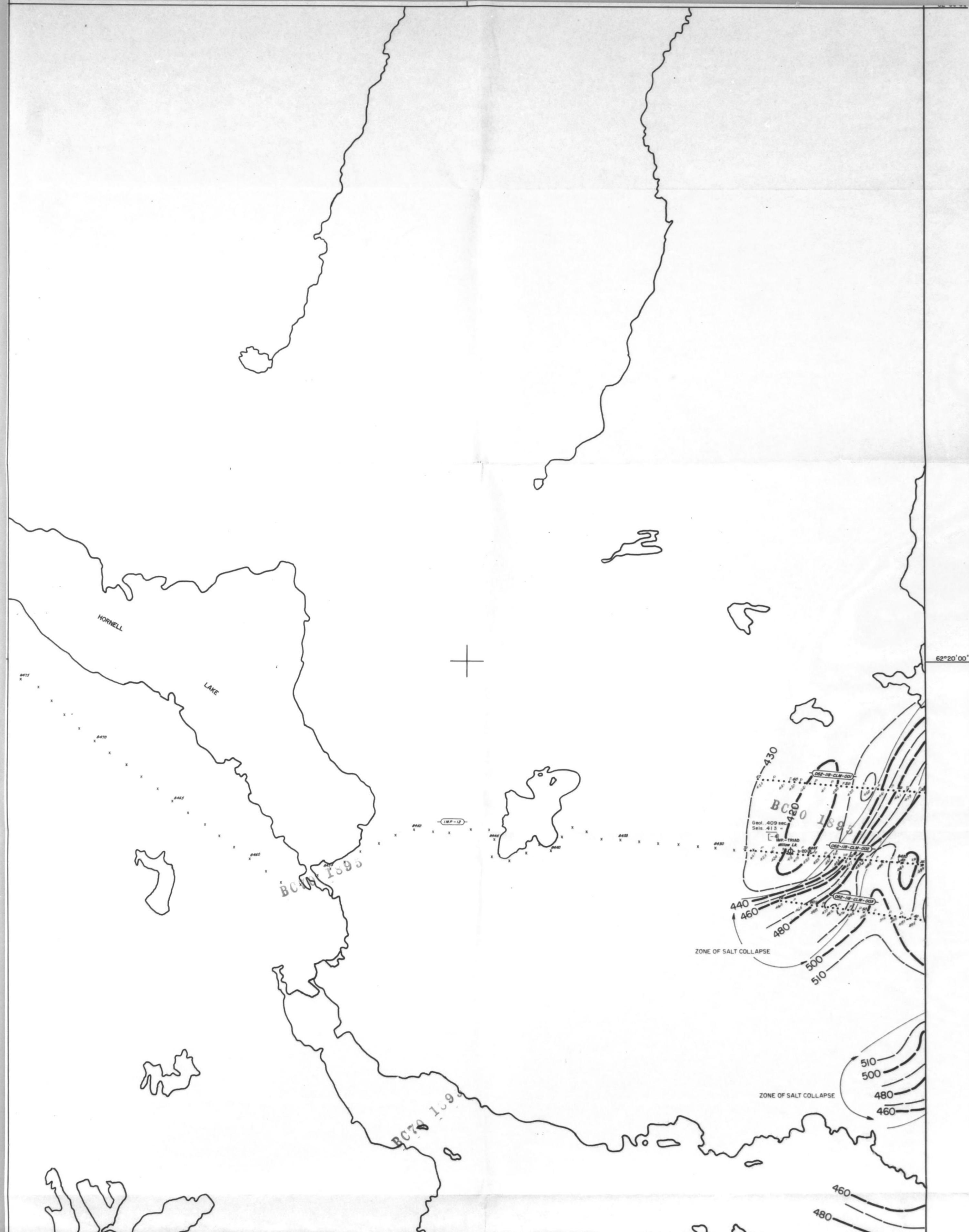


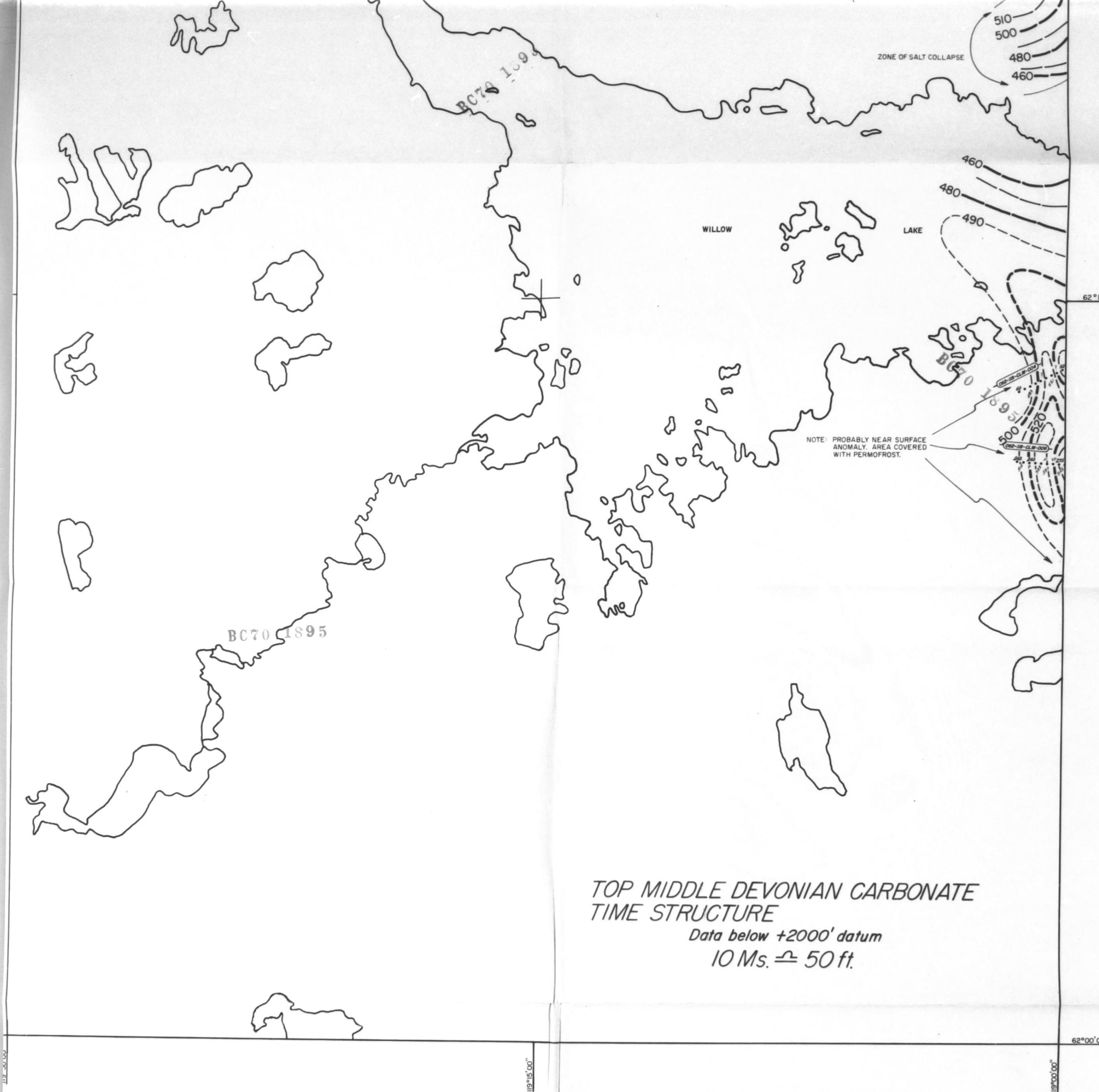
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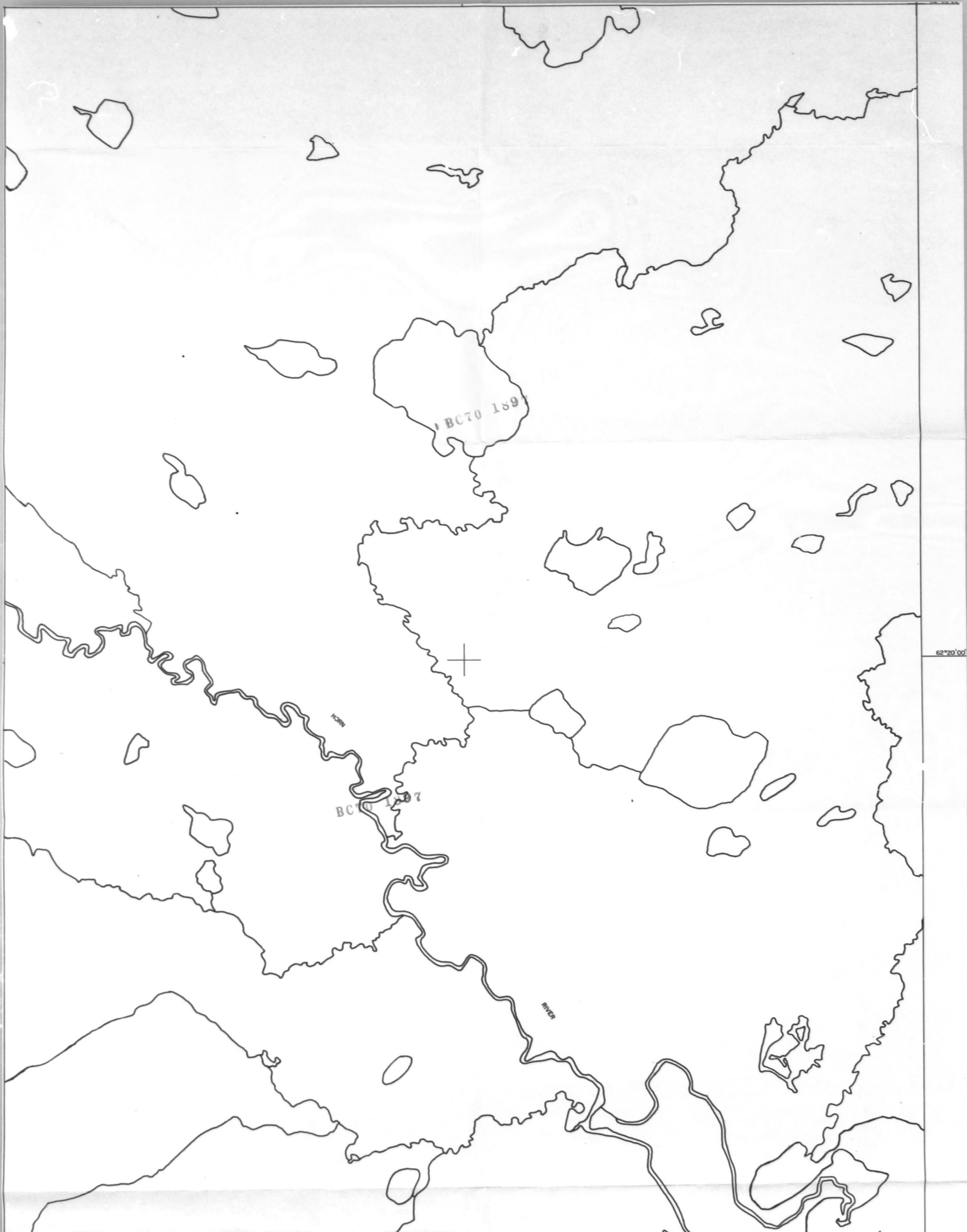


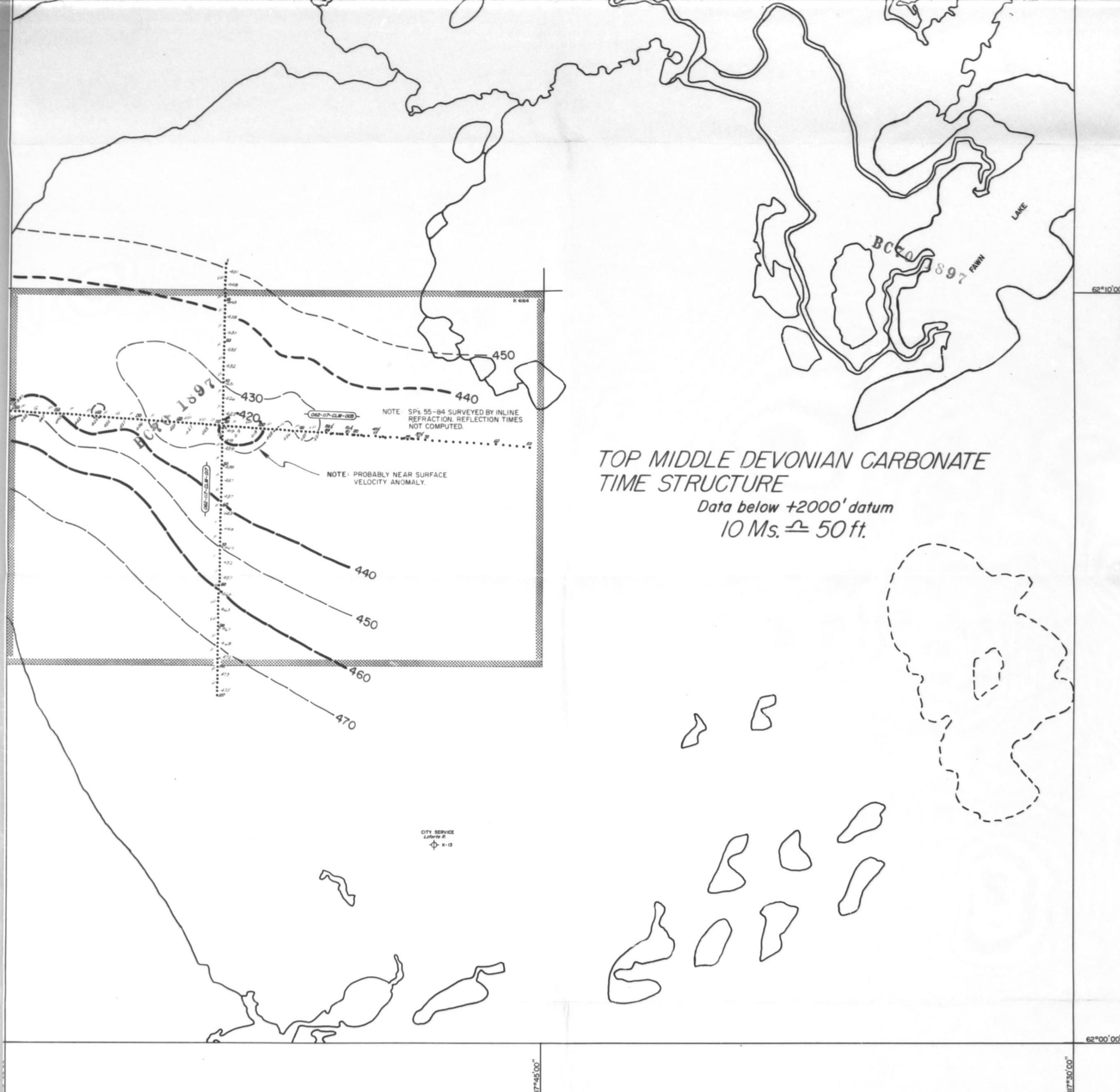




MAP EVALUATION				SHOOTING HISTORY (Not in detail)				INTERPRETIVE HISTORY				This map replaces/supplements Reg. No. _____ dated _____, which is to be destroyed/kept (Refer transmittal dated _____)				AMOCO CANADA PETROLEUM COMPANY LTD.	
INCL. DATES	SHOT BY	SHOT FOR	S.P. AND/OR LINE No's	FINAL REPORT No.	DATE	INTERP.	CO.AFFIL.	APPROX.LOC. ON MAP	Map distribution	<input type="checkbox"/> Division	<input type="checkbox"/> General Office	Div.	G.O.	AREA: Willow Lk.	GRID: CO-22/SE		
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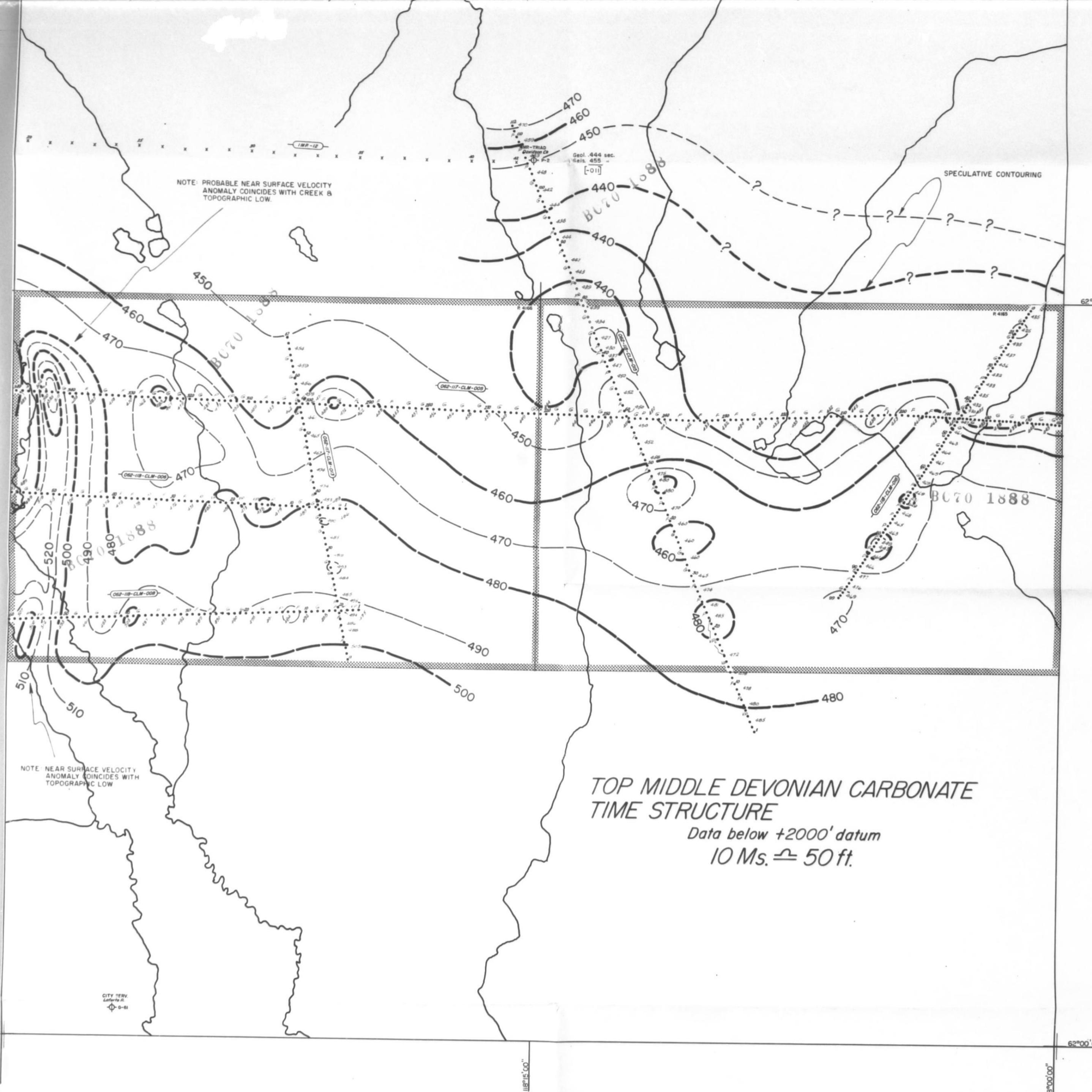




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MAP EVALUATION		SHOOTING HISTORY (Not in detail)			INTERPRETIVE HISTORY					
Qualification		INCL. DATES	SHOT BY	SHOT FOR	S.P. AND/OR LINE No's	FINAL REPORT No.	DATE	INTERR.	CO.AFFIL.	APPROX.LOC. ON MAP
Consider type of map or play, amount of relief considered critical, quality of data and density of control, (geophysical or geological) Geological data Reliable geophysical data Qualitatively reliable geophysical data Unreliable geophysical data		MAY-JUNE, 1970	WESTERN 63	AMOCO	CLM0001, 8, 13, 15, 16	7086	OCT. 28, 1970	A. PAP	AMOCO	
This map contains information Reg. No. _____ which is to be destroyed/kept (Refer transmission date _____) <input type="checkbox"/> Map distribution <input type="checkbox"/> Division <input type="checkbox"/> General Office										
Maps prepared this report _____ TOP MIDDLE DEVONIAN STRUCTURE										
This map checked by _____ Amoco Geophysical/Geologist All geological and geophysical data, including interpretations, appearing on this map is the private and confidential property of Amoco Canada Petroleum Company Ltd. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.										
VELOCITY PLAT AND EFFECT OF REF PLANE AND OR VELOCITY ON TIME MAP										
GEOLOGICAL INT: J.A. SHAW DATE: OCT. 28, 1970 FROM GEOPH. REPORT No. _____ DATED: _____ REMARKS: TIME DATA BELOW +2000' DATUM PLANE										
AMOCO CANADA PETROLEUM COMPANY LTD. AREA: Horn River GRID: C0-23/S.E. PROVINCE: N.W.T. SCALE: 1" 4000' HORIZON: MIDDLE DEVONIAN CARBONATE TYPE OF MAP: TIME STRUCTURE/CONTOUR INT: 10 Ms. ≈ 50 ft. INCL. DATES: MAY-JUNE, 1970 SHOT BY: WESTERN 63 FOR: AMOCO INCL. DATES: MAY-JUNE, 1970 SHOT BY: WESTERN 63 FOR: AMOCO REPORT No.: 7086 DATE: OCT. 28, 1970 REMARKS: TIME DATA BELOW +2000' DATUM PLANE										
BC70 1888										
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