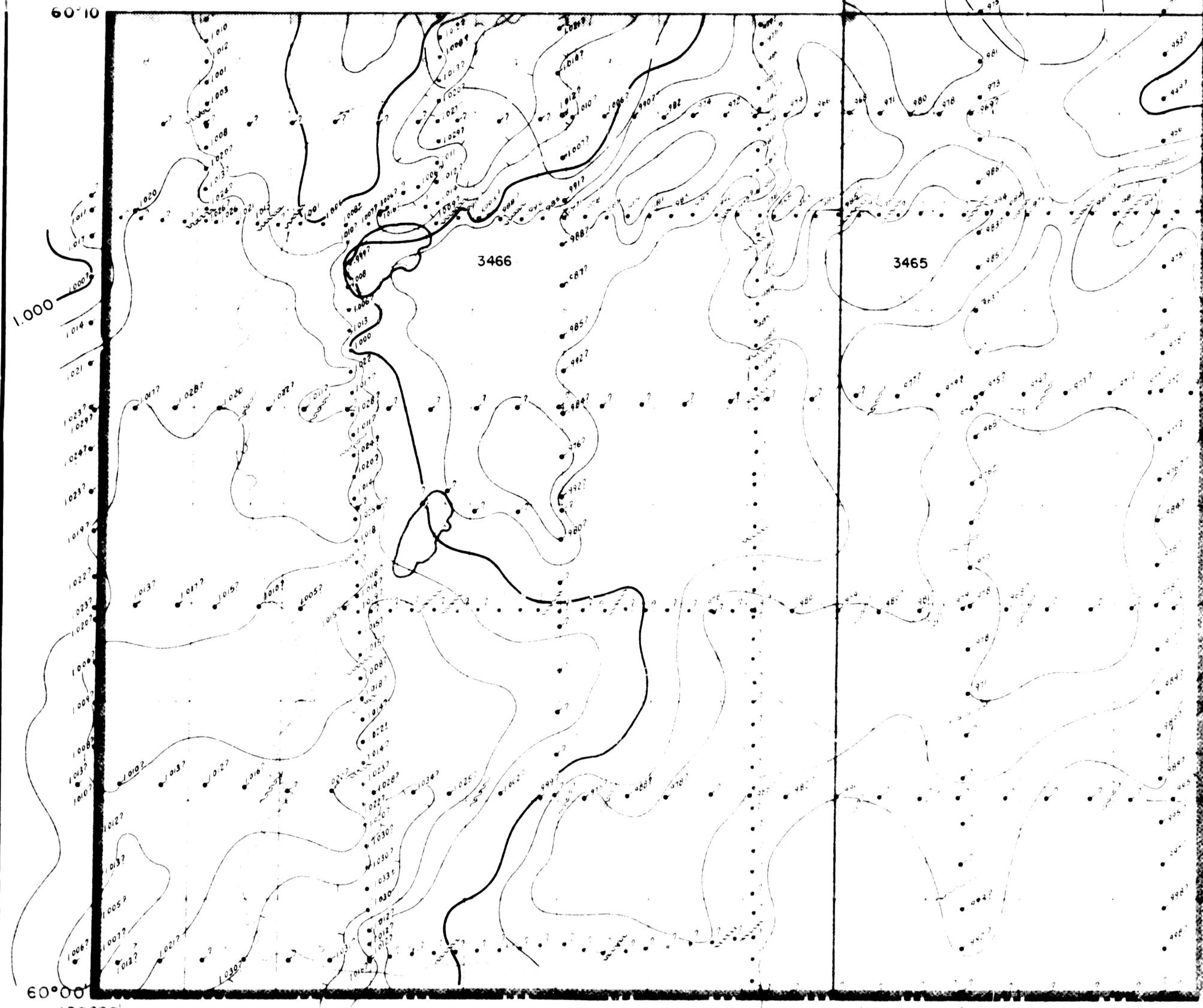
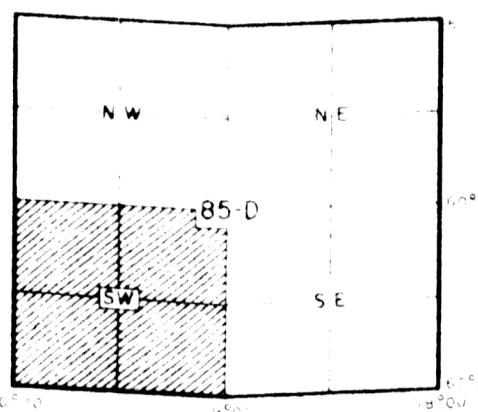
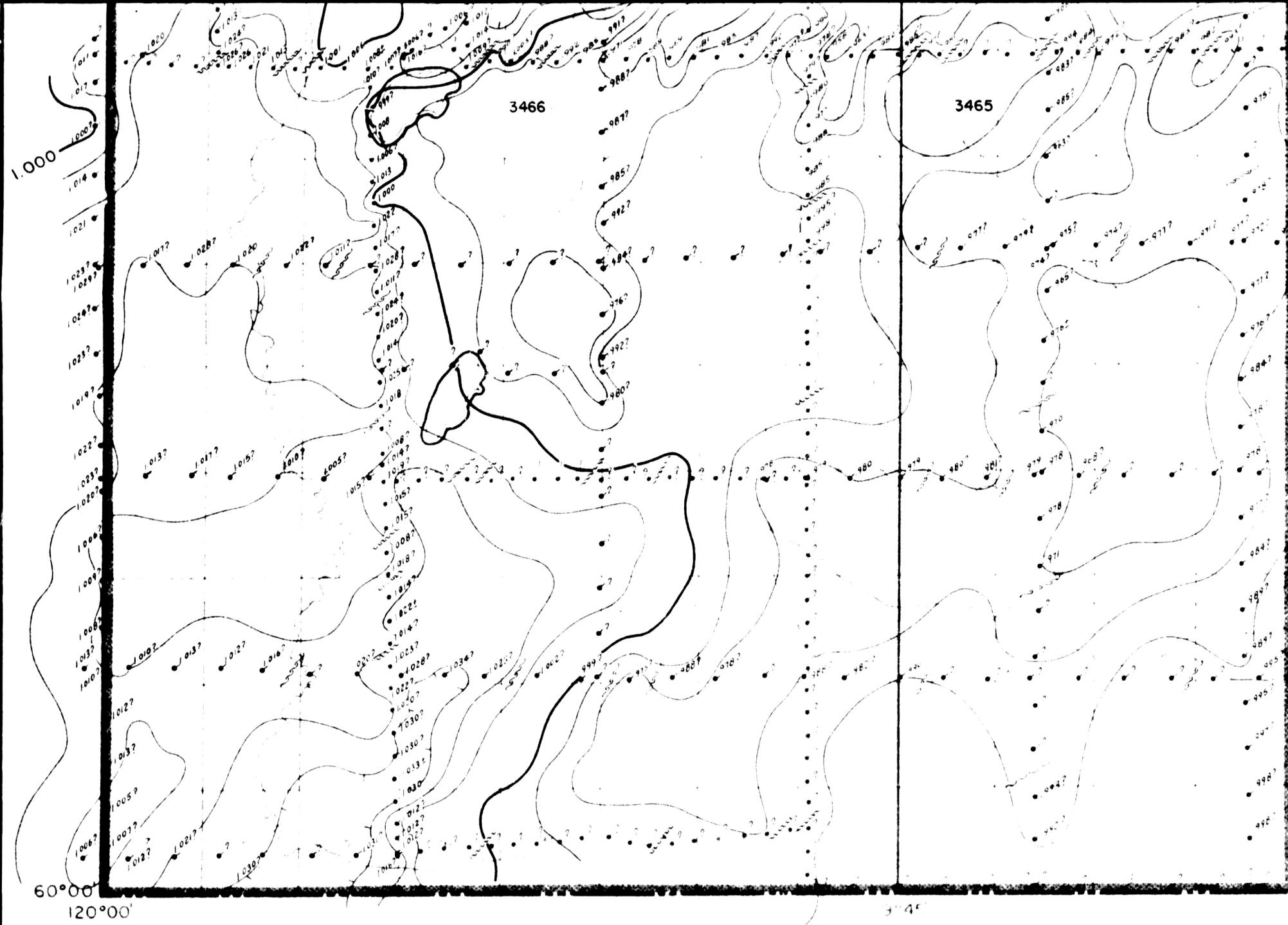


1 of

60-10



2



NOTE: A CONSTRUCTION MAP HAS BEEN PREPARED FROM
EXACT SURVEY INFORMATION AND NOT MAP.

Trainor Lake Project N.W.T.

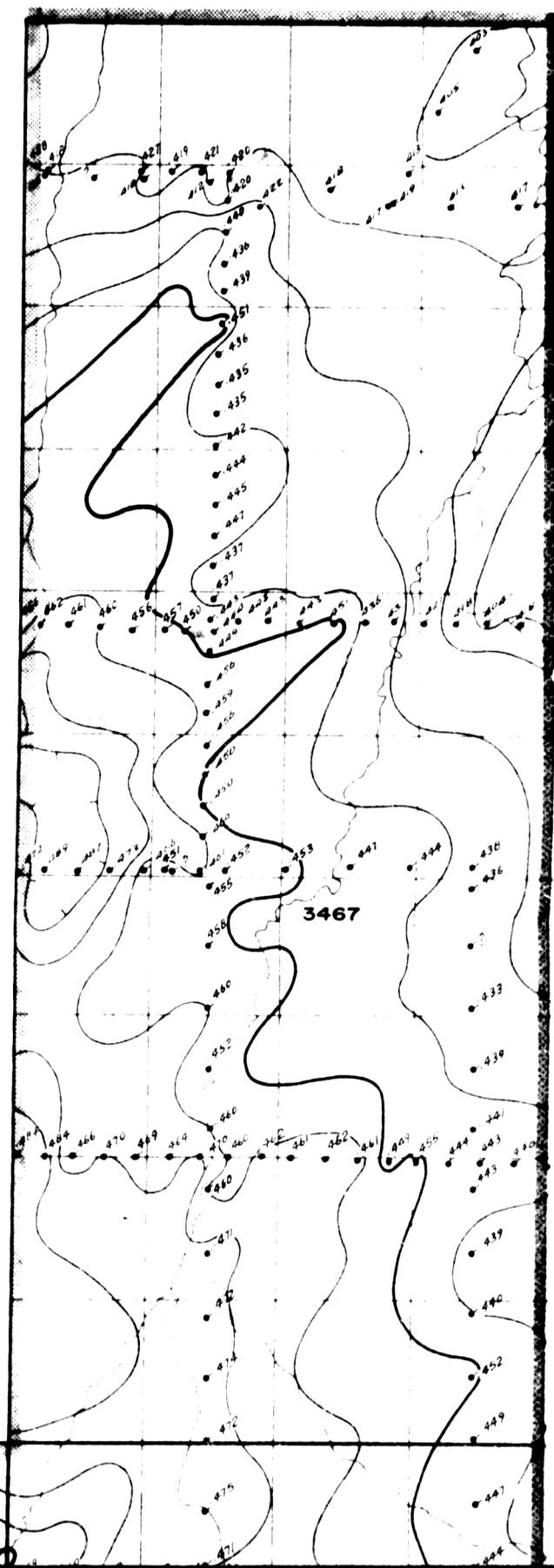
NTS 85-D-SW

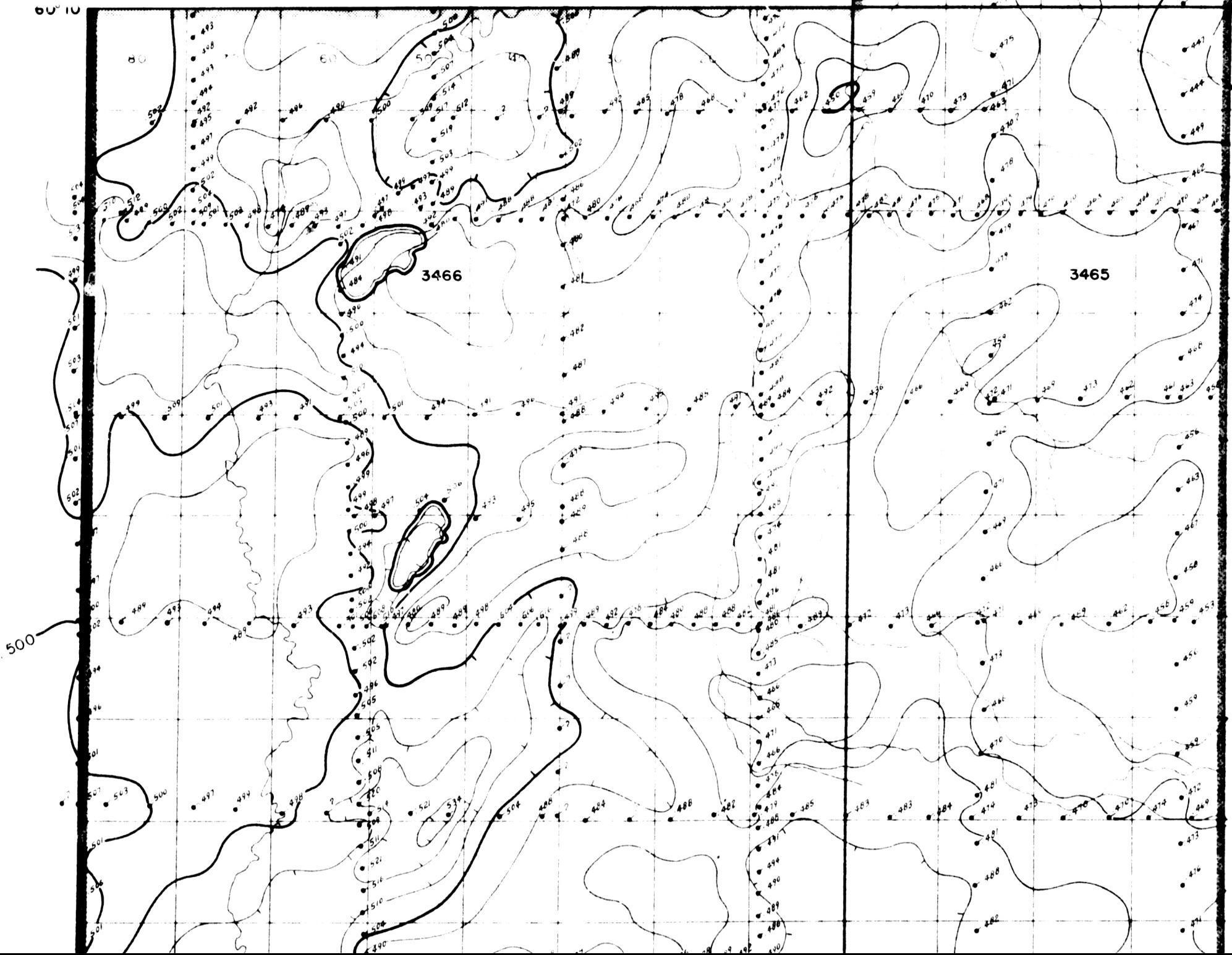
Seismic Middle Devonian Horizon
Contour Interval: 010 sec Scale: 1 inch = 1 mile
Datum: 1500 ft.

Date: June 22, 1965

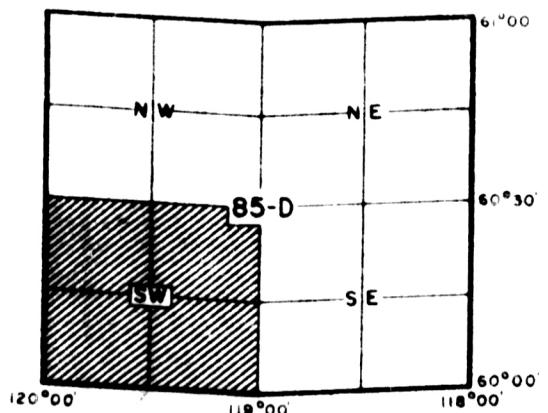
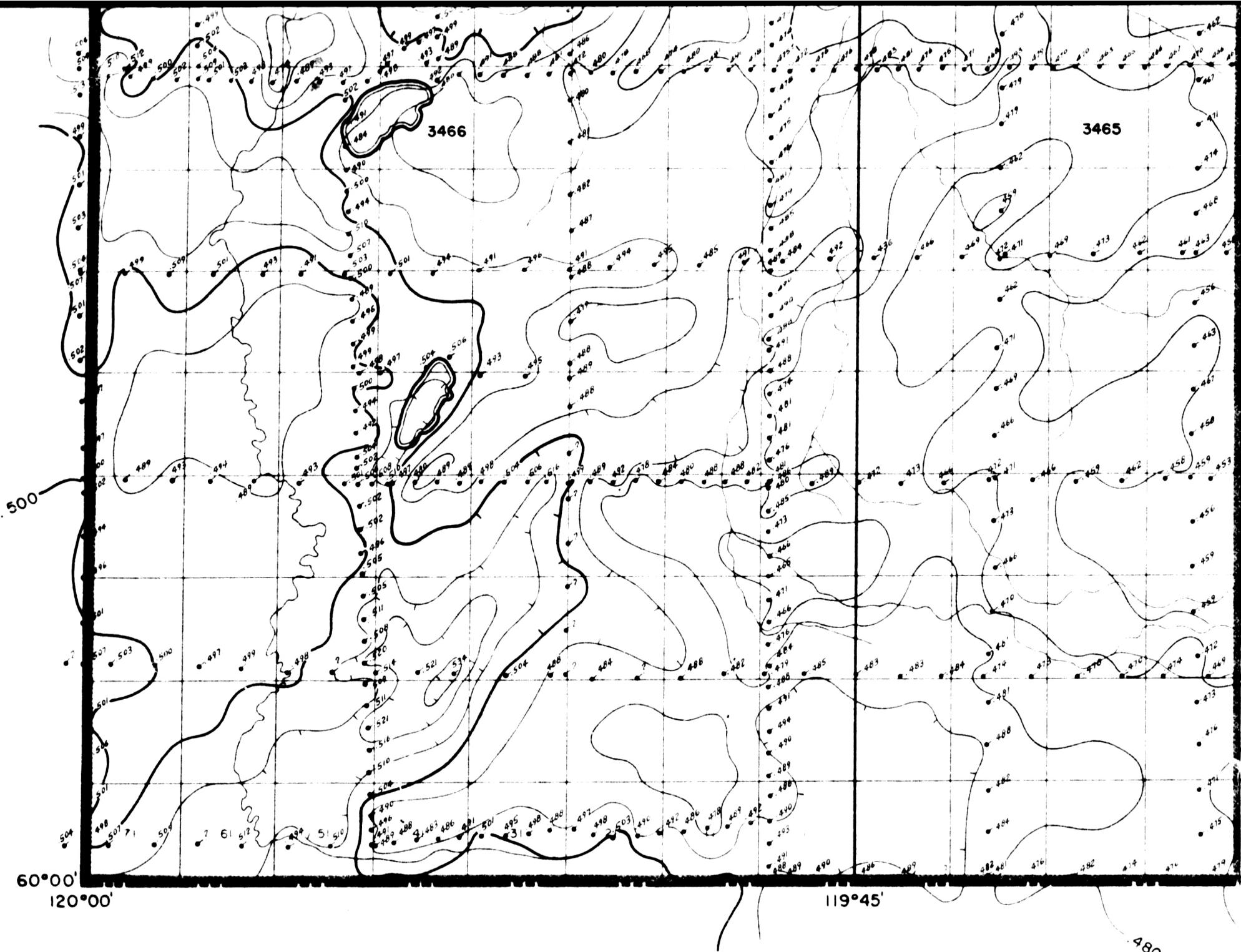
Permit Boundary

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Trainor Lake Project N.W.T.

NTS 85-D-SW

Seismic near top of Devonian Horizon

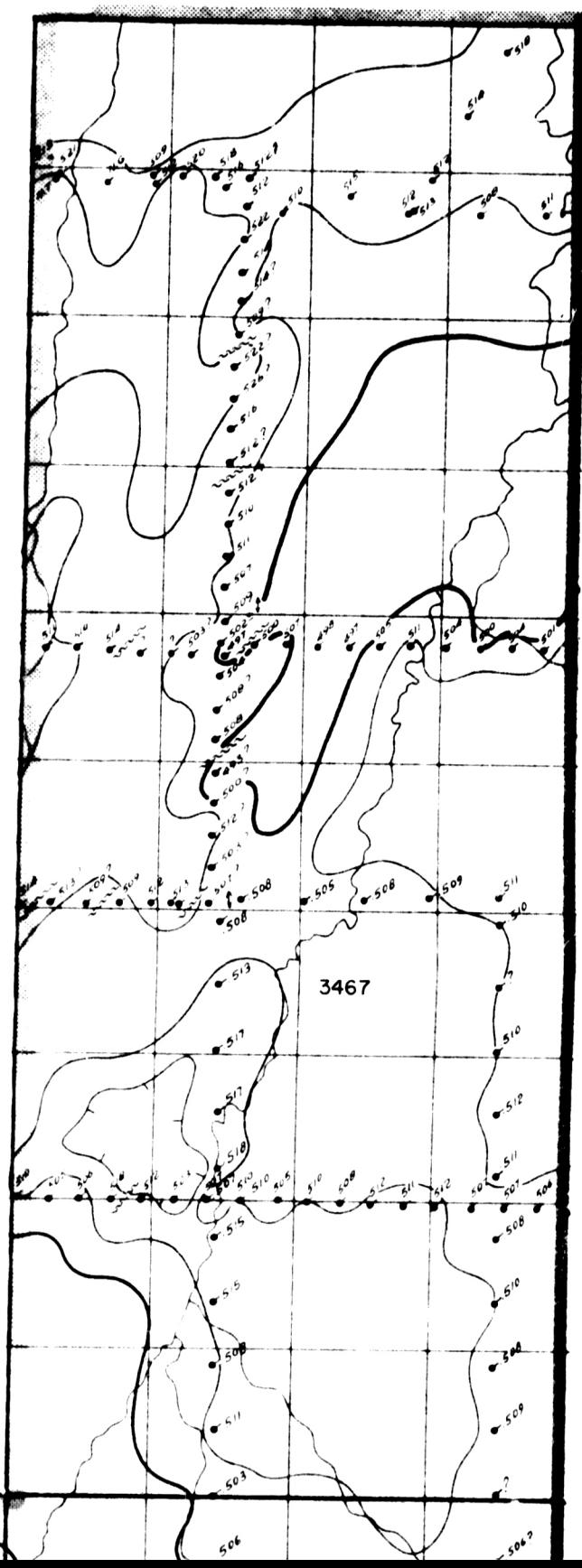
Contour Interval: .010 sec. Scale: 1 inch = 1 mile

Datum: 1500 ft.

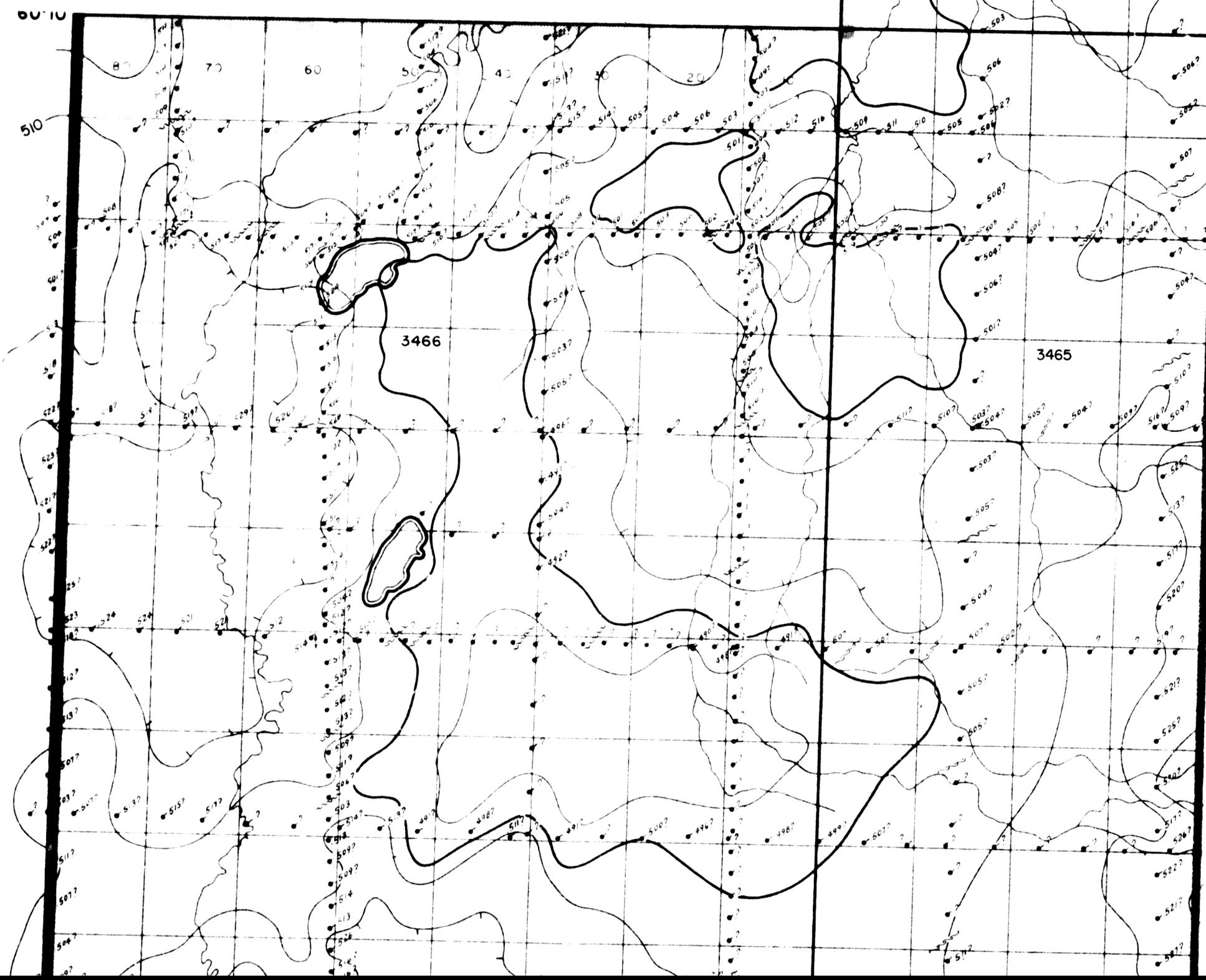
Date: June 22, 1965

Permit Boundary

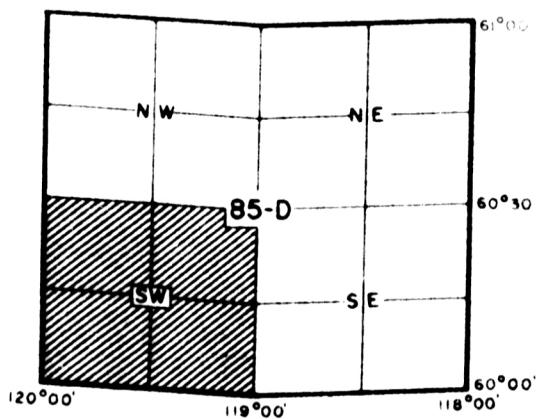
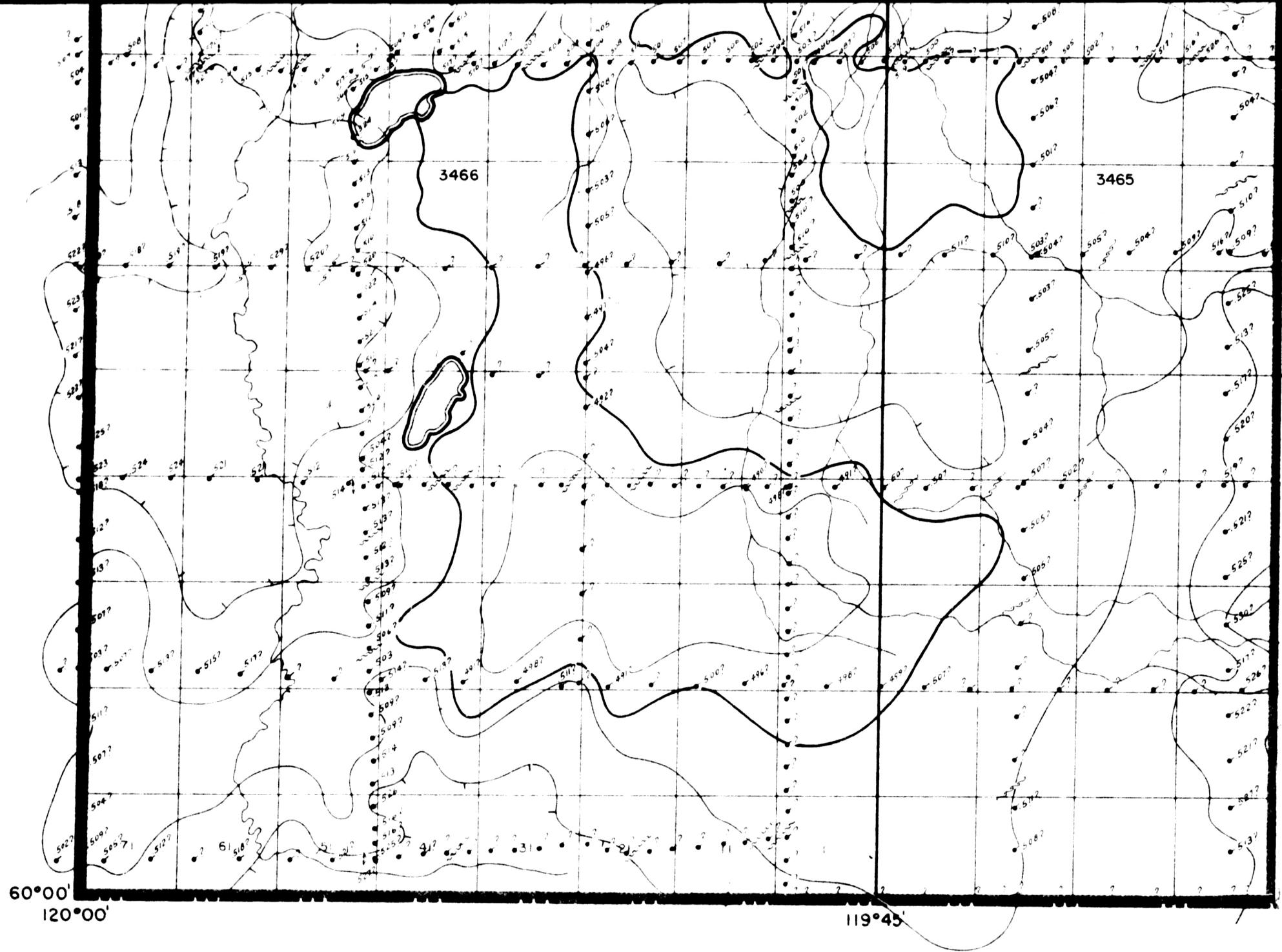
39



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NOTE: ADJOINING MAP 84-M-NW PREPARED FROM
LESS ACCURATE INFORMATION - WILL NOT MATCH

Trainor Lake Project

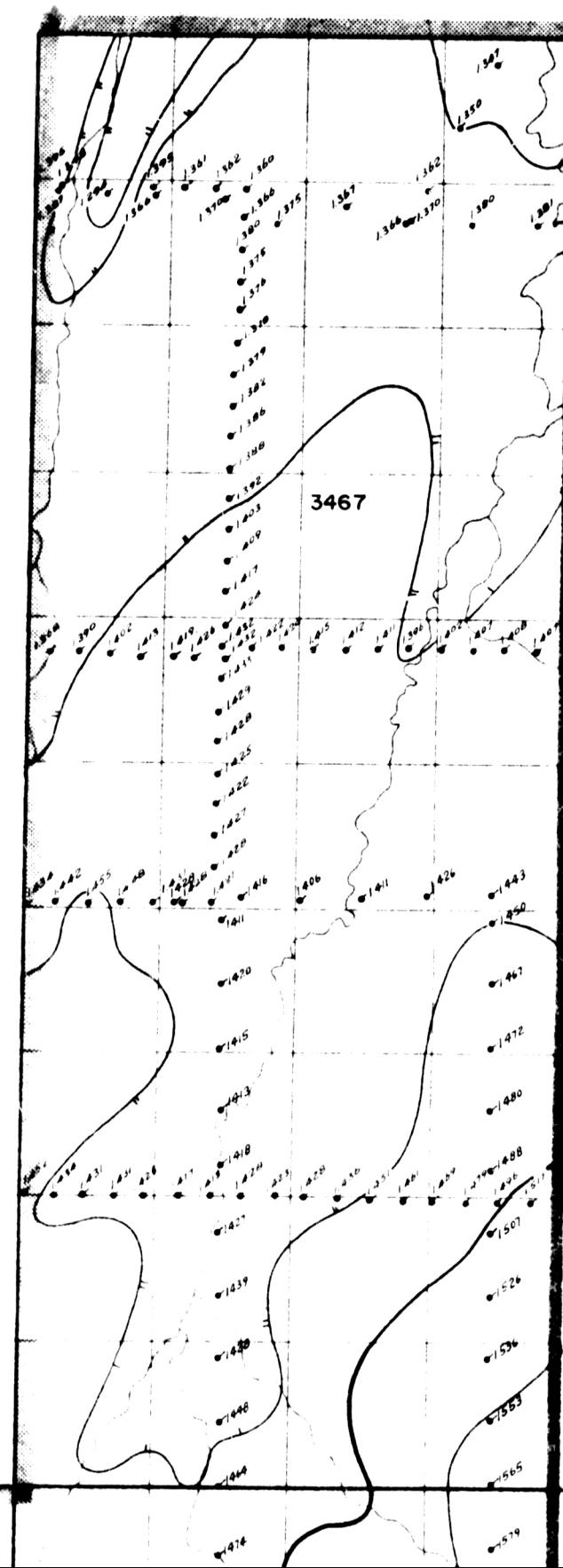
NTS 85-D-SW

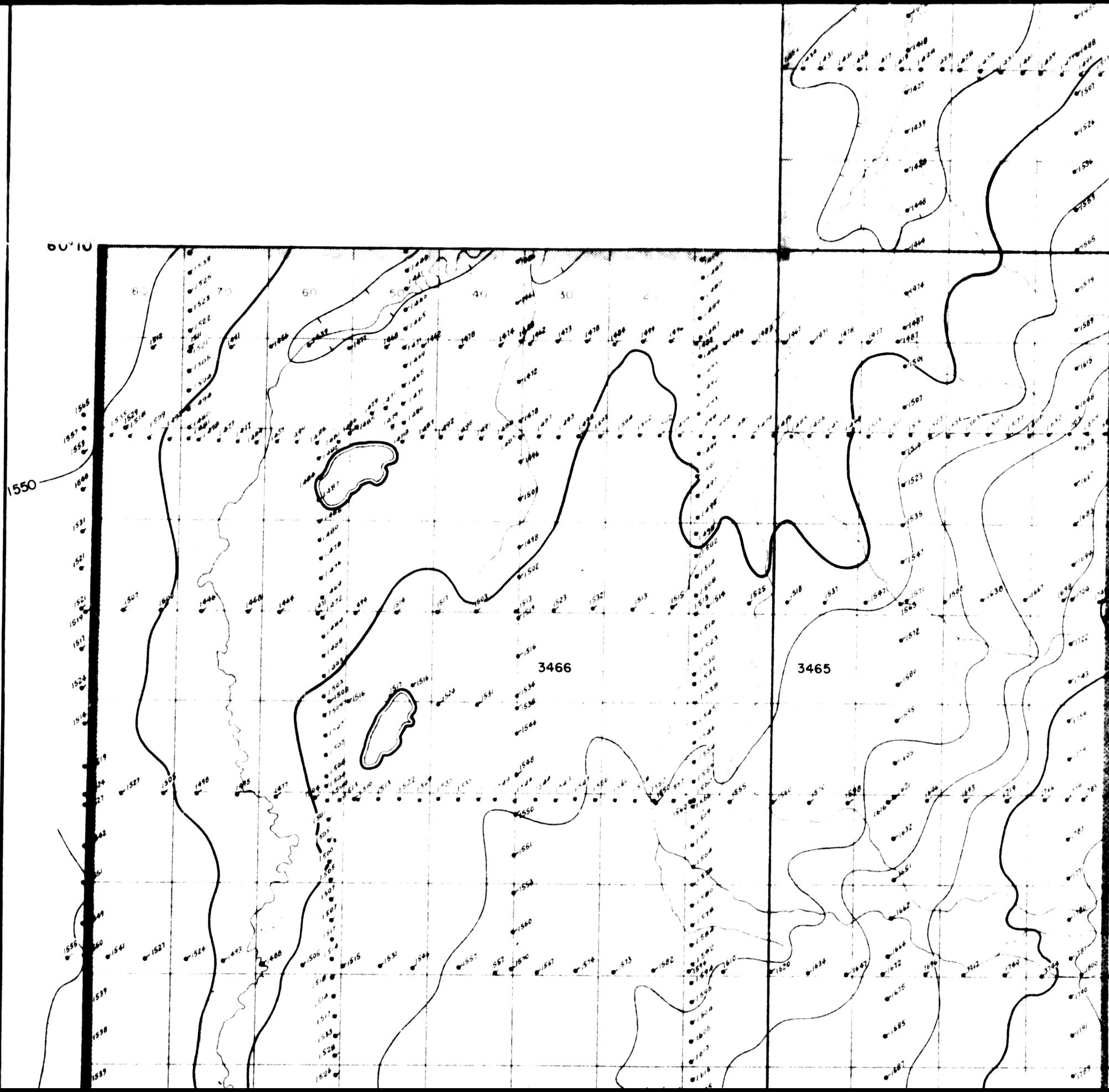
Seismic Interval top Devonian to Middle Devonian
Contour Interval: 010 sec. Scale: 1 inch = 1 mile

Date: June 22, 1965

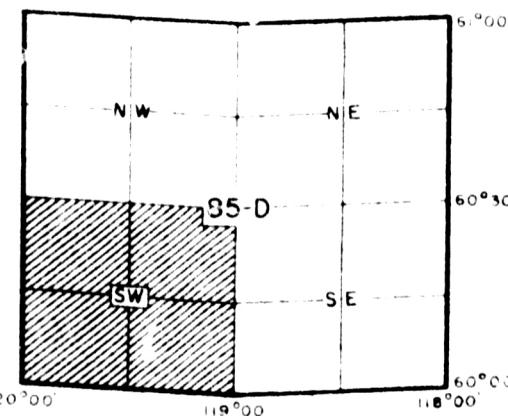
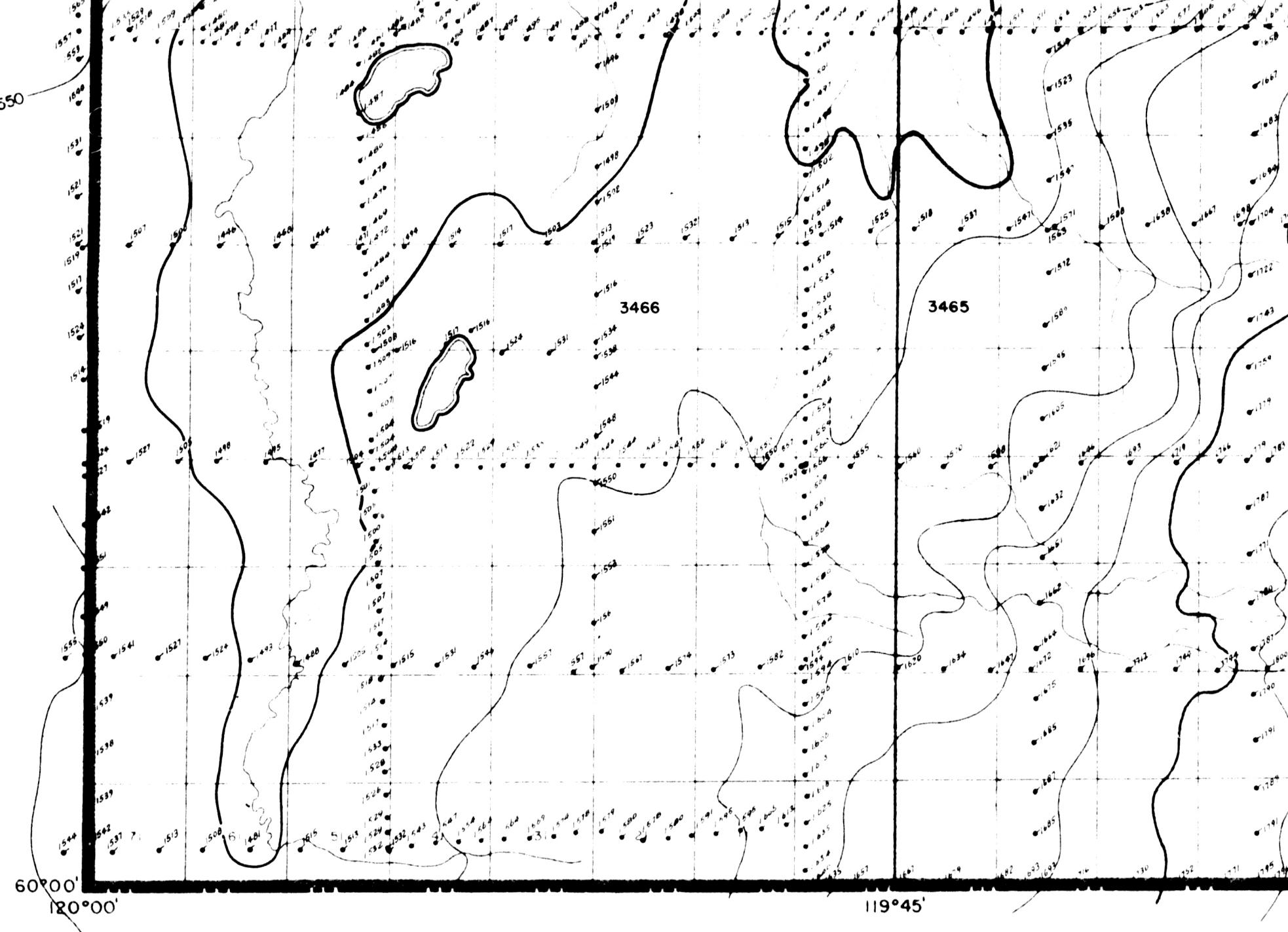
Permit Boundary

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NOTE ADJOINING MAP B4-M-NW PREPARED FROM
LESS ACCURATE INFORMATION - WILL NOT MATCH

The British American Oil Company Ltd.

Trainor Lake Project N.W.T.

NTS 85-D-SW

Section A-B at 5.2 ft. Section A-B at 4 miles

50 ft. Scale: 1

Datum: Sea Level

Date: June 22, 1965

Permit Boundary

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2-6-4-21

THE BRITISH AMERICAN OIL COMPANY LIMITED

NORTHWEST TERRITORIES OIL AND GAS
PERMIT NOS. 3465, 3466 AND 3467

TRAINOR LAKE - GEOPHYSICAL REPORT

June 22, 1965

THE BRITISH AMERICAN OIL COMPANY LIMITED



NORTHWEST TERRITORIES OIL AND GAS PERMITS NOS.

3465, 3466, AND 3467

TRAINOR LAKE

Geophysical Report

Heiland Geophysical Crew No. 3 shot a total of 112.5 miles of seismic control on these permits during a period of 46 crew-days. Operations commenced January 11, 1965, and terminated March 5, 1965. In addition, 65 miles of trade data have been interpreted and included with the new shooting.

Location

Permits 3465 and 3466 lie immediately to the north of the N.W.T. border, bounded within the outline formed by parallels 60 degrees 00 minutes and 60 degrees 10 minutes, north latitude, then meridians 119 degrees 37.5 minutes to 120 degrees, 00 minutes west longitude. Permit 3467 abuts to the north, and is bounded by 119 degrees 37.5 minutes to 119 degrees 45 minutes, then 60 degrees 10 minutes to 60 degrees 20 minutes.

Operations

Most of the pertinent data pertaining to operations are summarized in the Appendix under the headings "Recording, Drilling, and General". Field supervision for the crew was under the direction of Mr. James G. Murray, Calgary.

Interpretation

The following interpretation maps are enclosed in the pocket of this report:

Elevation Map
Near Top of Devonian Horizon
Middle Devonian Horizon
Interval Top Devonian to Middle Devonian

The Top of Devonian reflected event is of good quality, but the Middle Devonian reflected event appears to be interfered with by a multiple reflection from the top of the Devonian. This necessarily qualifies some of the data on the Middle Devonian Map, and the Interval Map.

APPENDIX TO TRAINOR LAKE GEOPHYSICAL REPORT

Trainor Lake Project

Recording

- Gulf Model 50 Recording Amplifiers
- S.I.E., PDA-2 Magnetic record - playback amplifiers
- 38-4 Filter
- Conventional shooting with long shots
- 1/2 mile detector line
- 4 detectors per trace with 60' spacing
- single holes 40 feet deep
- average charge size 1/5 lb.
- record quality generally good with some poor record areas
- approximately six miles of six-fold shot using 1/3 mile detector line, and 480 foot hole spacing.
- 112 miles of control obtained in 45 days of shooting
- 180 lb. Geogel and 650 60-foot seismocaps used

Drilling

- total of 312 shot holes drilled
- total depth drilled 13,720 feet
- average depth 40 feet
- drilling varied considerably over area
- considerable amount of gravel encountered
- two drills used - Failing CFD-1's
- long water hauls, used extra water truck with 1600 gallon tank for last 20 days.
- considerable amount of Polygel Mud used

General

- used existing cut lines for access
- entered project from Steen River
- after first month trails from Meander River used
- basic support by Beaver JKO, based in Fort Nelson
- crew flew in and out from High Level for time off, bus to Peace River
- wheeled equipment used exclusively to work project
- Atco rental camp used
 - three sleeper 10' x 52'
 - kitchen-diner-utility, 10' x 52'
 - 15 KVA Deutz Diesel Power Plant
- fuel supplied by B.A. in High Level

General Cont'd.

- explosives supplied by Explosives Ltd., Peace River
- groceries supplied by Fortier and Associates, Fort Nelson
- communications by SSB to Whitehorse and Fort Nelson
- terrain generally flat, sparsely covered with small trees.
Larger trees along creeks. Basic relief associated with creeks and rivers. Considerable amount of muskeg.

Trade Data

Shot By: Socony Mobil
Contractor: E.C.I.
Spread Length: 1/4 mile
Group Spacing: 110 feet
Detector Spacing: 4 detectors 25 feet apart for part of the shooting
and 9 detectors 15 feet apart for the rest.

Shot By: Pan American Petroleum Corporation
Contractor: United Geophysical
Spread Length: 1/2 mile
Group Spacing: 225 feet
Detector Spacing: 30 feet (six detectors per group)
Hole Pattern: 3 holes 40 feet deep and 25 feet apart.



THE BRITISH AMERICAN OIL COMPANY LTD.

Northwest Territories Oil and Gas Permit Nos.

3465, 3466, 3467, 3468

Geophysical Report

New data covered by this report includes 25½ miles of seismic reflection control shot by Independent Exploration Company Party No. 315 and 51 miles of trade data obtained from Socony Mobil. The new data is outlined in orange on Figure No. 4, Shot Point Locations and Elevations Map.

In addition to the new data covered by this report 16½ miles of reflection control was obtained on these lands during the '67-68 winter season by Canadian Fina Oils Ltd. Copies of the mapping of this survey were submitted with our letter of July 12, 1968.

The following seismic reflection maps are located in the pocket of this report:

Figure No. 1 - Portion Unit Map 85-D-SW
Contours on Intermediate Horizons
(Near Top Of Devonian)

Figure No. 2 - Portion Unit Map 85-D-SW
Contours on Deep Horizons
(Slave Point)

Figure No. 3 - Portion Unit Map 85-D-SW
Contours on Interval Between Intermediate and Deep Horizons (Near Top of Devonian and Slave Point)

Figure No. 4 - Portion Unit Map 85-D-SW
Shot Point Locations and Elevations

A discussion of the location of the project, terrain, communications and general operating conditions was undertaken in our report dated June 22, 1965. The following information is offered as being pertinent to the survey conducted by I.X.C. Party #315.

Instrumentation

- Model '65 Gulf amplifiers
- SIE-PMR magnetic tape system
- Geospace detectors (9 geophones/group, 20 ft. intervals
- Rollalong cables (5060' spread)

Equipment

- 3 drill trucks
- 2 line trucks
- 4 water trucks
- 1 recorder truck
- 1 survey pickup

- Single hole shot points were used and the average hole depth was 40 feet. Hole logs recorded frozen formations of gravels and sands, silts, clays and boulders.
- An average charge of $2\frac{1}{2}$ lbs. was used.
- Bulldozer equipment was contracted to cut line and maintain access trails.
- A wheeled trailer camp was supplied by British American to accommodate the 28 man crew.
- Heavy supplies were trucked in from High Level
- One Beaver aircraft serviced the camp.

The new four-fold data shot by I.X.C. Party #315 is considered to be of superior quality to the older data. Old time values which are not used in the contouring are boxed.