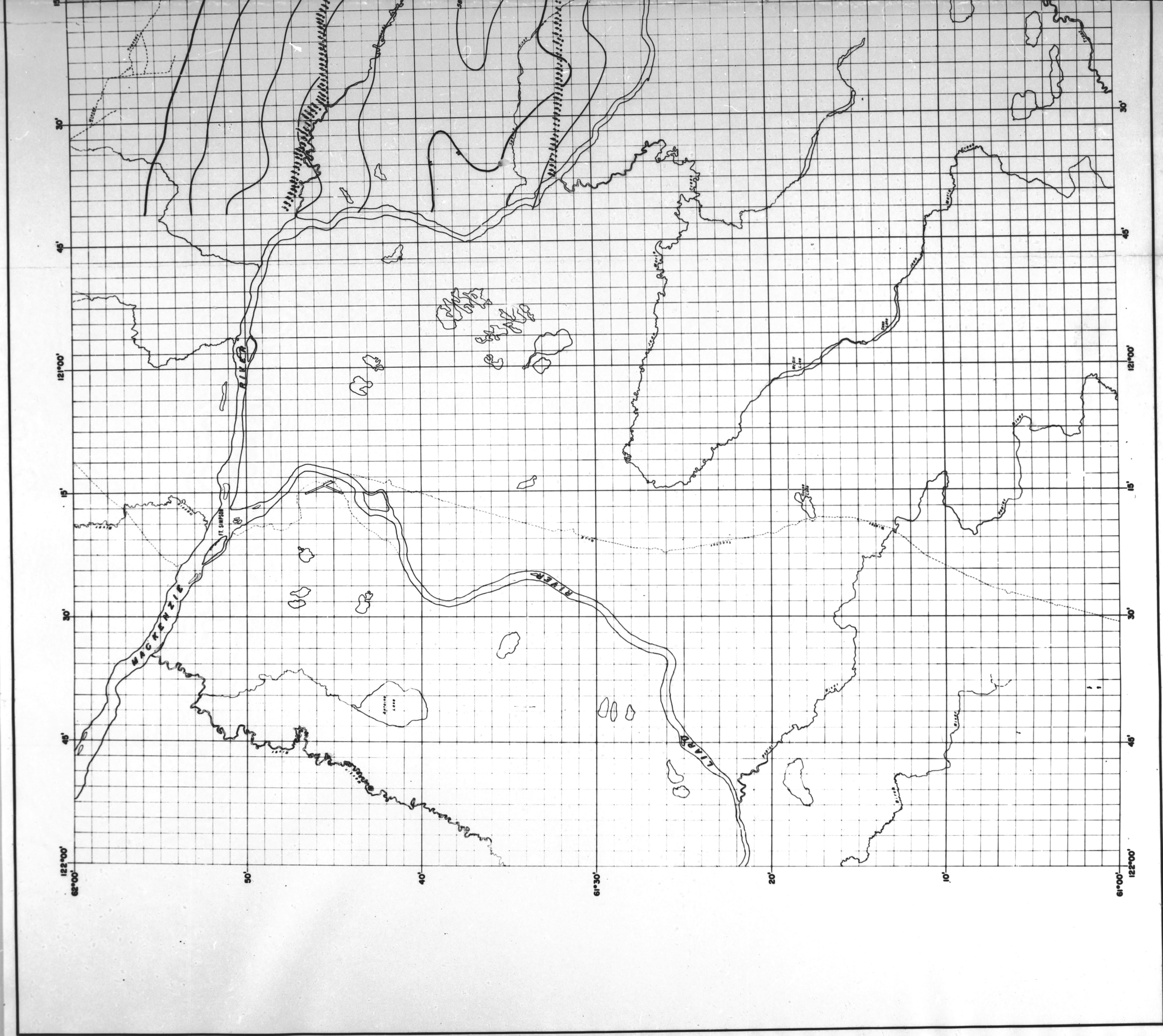
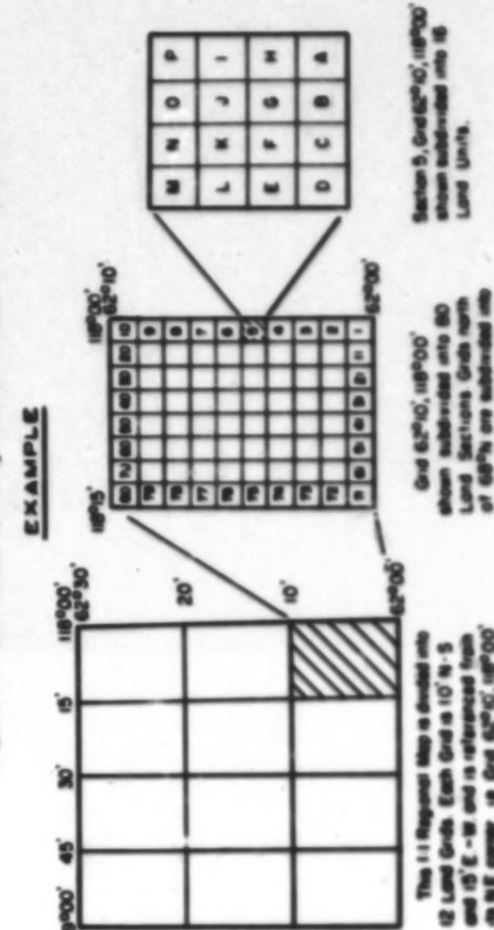


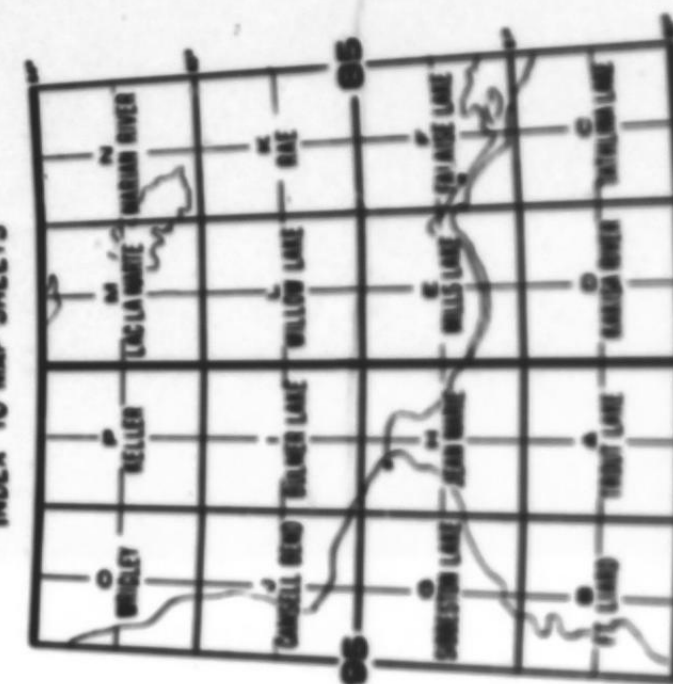
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West Canadian Graphic Industries Ltd.

**N.W.T. LAND REFERENCING SYSTEM
AS APPLIED TO
TERRITORIAL OIL & GAS REGULATIONS**

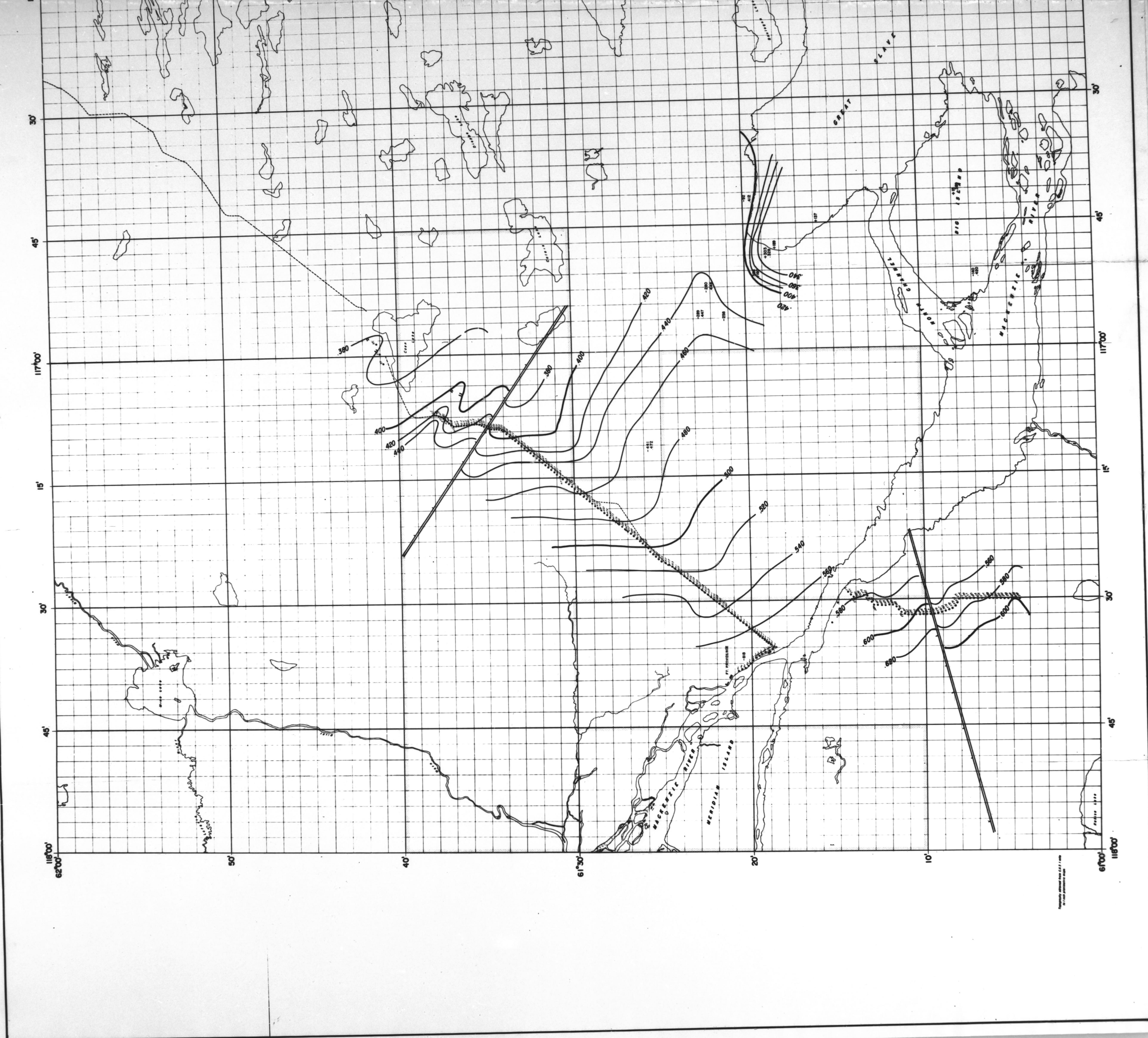


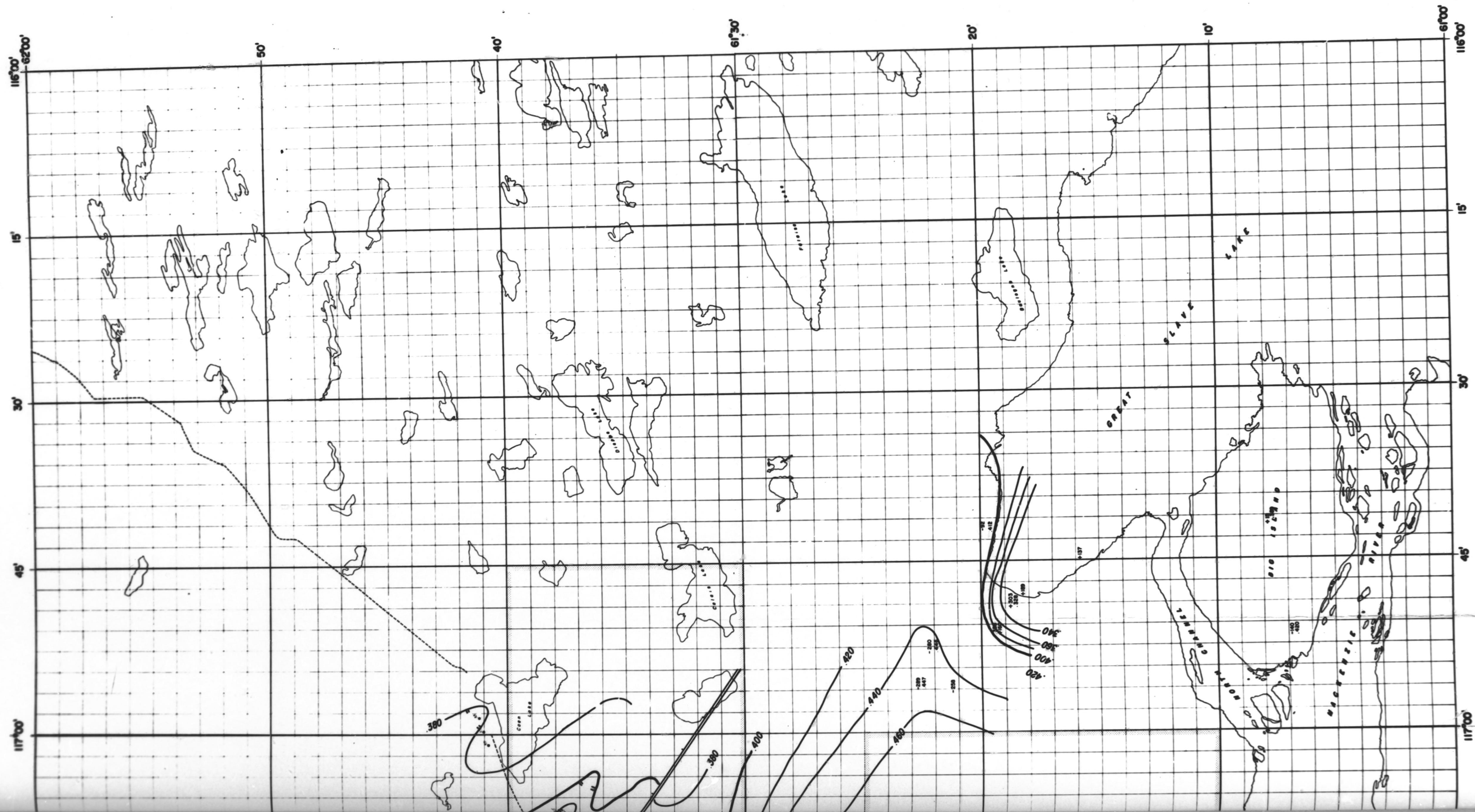
INDEX TO MAP SHEETS

[illegible]

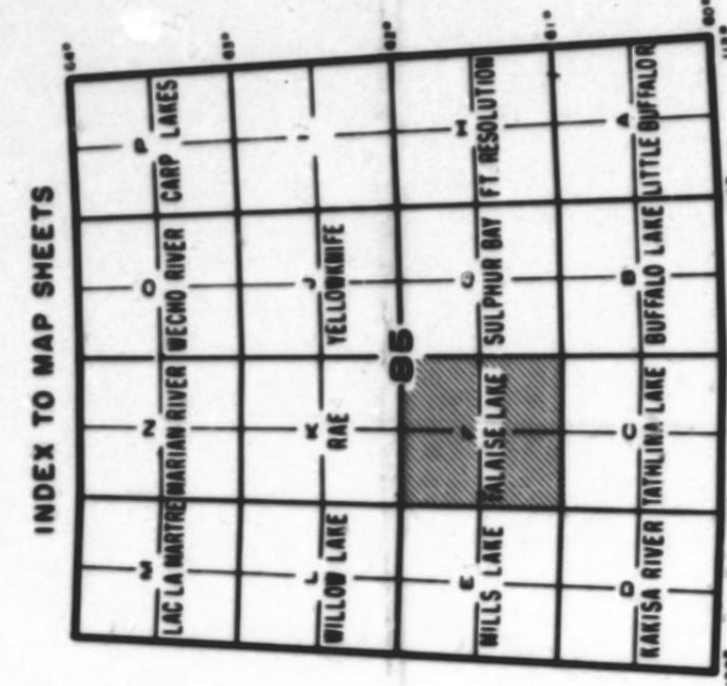
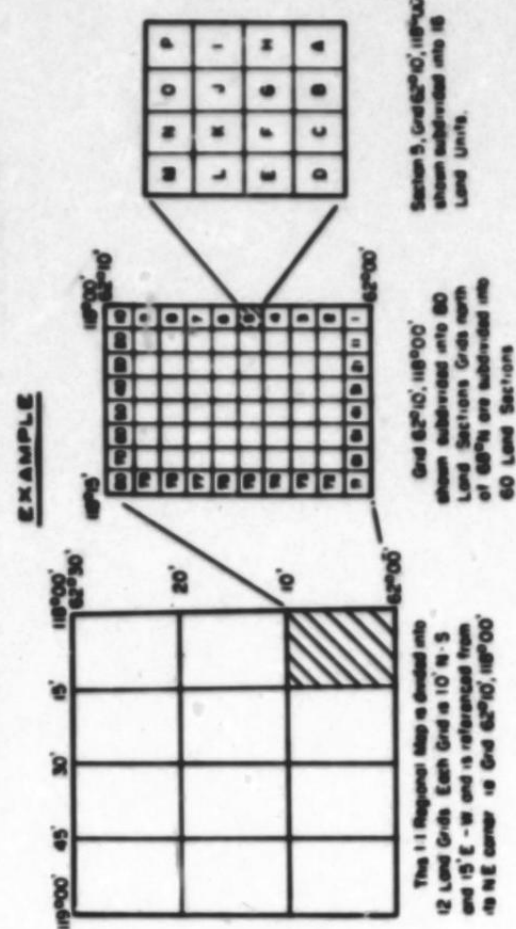
INTERN. CL. LIMITED
SEISMOGRAPH MAP
WALL E. NEWMAN CARPENTERS

954 JEAN MARIE
8 MILES TO 1 INCH





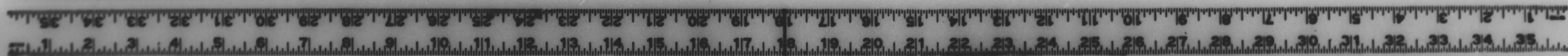
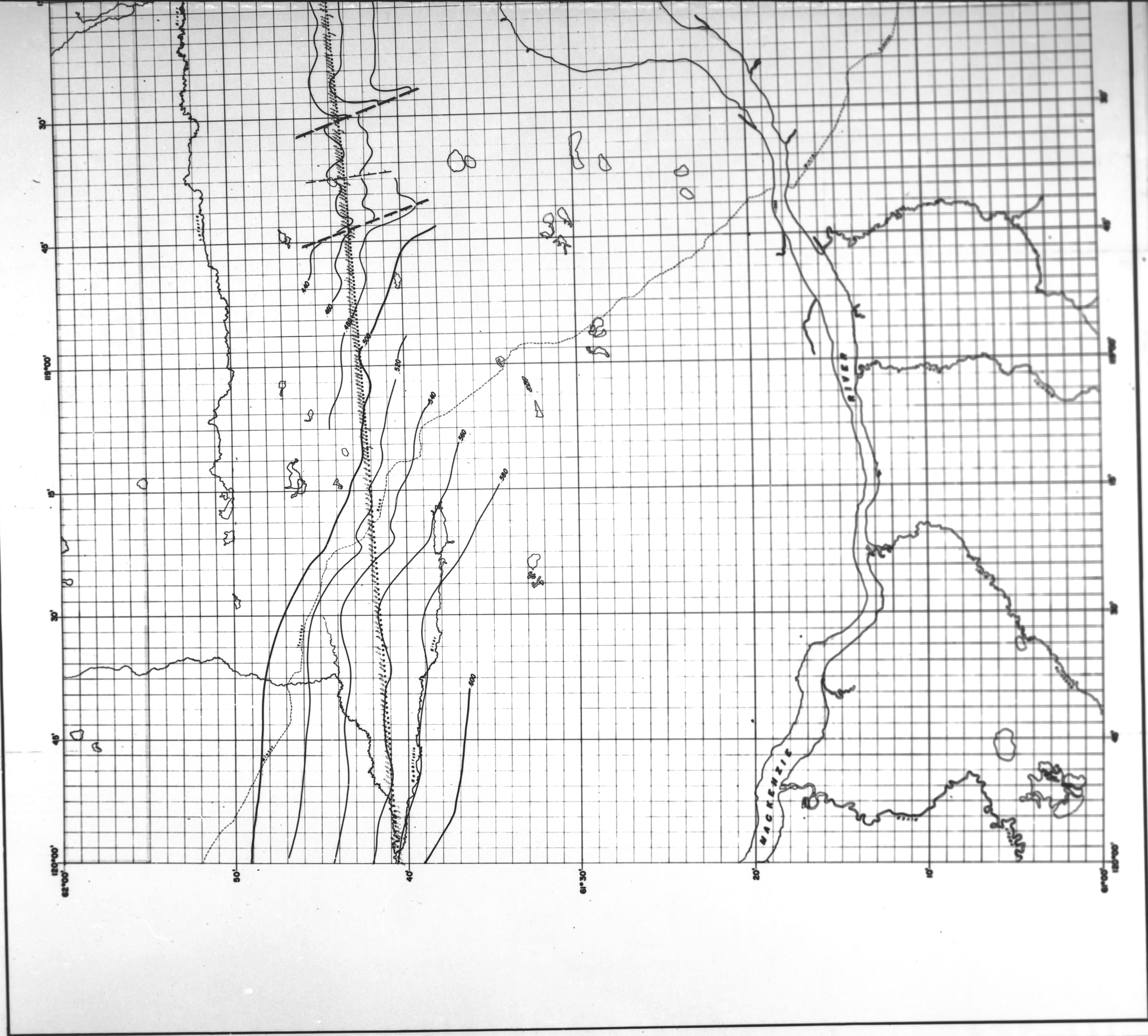
N.W.T. LAND REFERENCING SYSTEM
AS APPLIED TO
TERRITORIAL OIL & GAS REGULATIONS



IMPERIAL OIL LIMITED
MAP OF
SCALE: 2 MILES TO 1 INCH
ASSEMBLED CONTOURS
GRAVITY STATION LOCATIONS & ELEVATIONS
SEISMIC SHOT HOLE LOCATIONS, ELEVATIONS & TOTAL DEPTHS
TIME VALUES & CONTOURS ON
REFRACTION PROFILES
DEPTH MAP - CONTOURS ON
PEACE RIVER DISTRICT
IMPERIAL OIL LIMITED
SEISMOGRAPH MAP
MIDDLE DEVONIAN CARBONATE
SCALE: 2 MILES TO 1 INCH
Color Aerial: 1950-52
Color Photo: 1950-52
Color Map: 1950-52

85-F-FA LAISE LAKE

30x



30x

West Canadian Graphic Industries Ltd.



-TITLE PAGE-

**Report on Northwest Territories Permits 2472, 2642 to
2642, 2642, 2643 2923 to 2926**

Geophysical Survey Conducted by:

**Imperial owned and operated seismic crew from
October 1 to September 25, 1959 (Party 56).**

**One Seismic Exploration crew under contract to Imperial
from January 14 to February 25, 1960 (Party 30).**

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**Report on Northwest Territories Permits 2472, 2842 to
2848, 2862, 2863, 2923 to 2926**

Providence Area

Map References: 85 E, 85 F & 95 H

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| 1. Introduction | Page 1 |
| 2. Seismograph Operations - Party 56 | Page 2 |
| 3. Seismograph Operations - Party 30 | Page 3 |
| 4. 6 Maps in accompanying envelope: | |
| (a) 3 shot hole locations maps | |
| (b) 3 contour maps - Middle Devonian Carbonate | |

- PROGRESS REPORT -

INTRODUCTION

The terrain in the general Ft. Providence area is mainly flat with patches of muskeg and small lakes. Road cuts are quite rough due to large boulders on the surface. The area is covered with scrub brush, Jackpine and Poplar. Heavier timber was encountered as the crews proceeded west in the hills and along the Rabbitskin River.

SEISMOGRAPH OPERATIONS - PARTY 56

On September 1, 1959, a conventional truck mounted seismic crew owned and operated by Imperial Oil Limited, referred to as Party 56, using standard technique, moved into the general Ft. Providence area.

Shooting commenced along the new highway running northeast from Ft. Providence to Yellowknife. Drilling was rough at the south near the river where boulders and gravel were encountered, changing to boulders and clay with better drilling as the crew moved north. Shale depth varied from 120 feet at the south to as shallow as 25 feet further north.

The weather was predominantly wet during the first week, however the soil did not get too sloppy and soft so as to hamper the crew's operations.

Shooting continued along the highway northeast from Ft. Providence. Drilling was again a problem with hard boulders and gravel being encountered. The rains ended during the second week. Several hours of drilling time was lost winching on and off locations, but it was seldom serious.

Shooting was completed to Mile 31½ on September 18, 1959. Drilling remained much the same except that shale was no longer encountered. Many ditch bridges were required across muskeg areas. A charter trip was made by the ferry September 18 and one drill was moved across the river; the remainder of the vehicles were moved the next day by the scheduled ferry. A boat and motor were rented to move the personnel back and forth across the river between the camp and work site.

Three miles of line were shot from Mile 78½, southward along the highway. Drilling again slowed operations being a bigger problem than on the south side of the river. Locations on much of the line were very wet and soft. A very hard shale was found around 20 feet making drill penetration very slow.

During the last week of operations shooting was completed to Mile 66 on the highway, south of the river. Record quality remained quite good although frequency varied greatly.

Drilling operations were again slowed. Shale was logged at about 20 feet at the north end of the line, coming up to

SEISMOGRAPH OPERATIONS (Cont'd)

12 feet in the middle and was not at all present at the 50 foot depth at the south end of the line. This shale was very hard to drill and was associated with some extremely hard layers above. At the south end on the line boulders and gravel were encountered. To speed up coverage, hole depths were reduced to 40 feet then to 30 feet in the middle of the line as 30 feet seemed optimum shooting depth.

The crew completed their assignment on September 25, 1959 and returned to Dawson Creek, B.C.

SEISMOGRAPH OPERATIONS - PARTY 30

On January 14, 1960 a conventional truck mounted seismic crew, under contract to Imperial Oil Limited, referred to as Party 30, and using standard technique, commenced seismic operations in the area of 61°50' north latitude and 118°00' west longitude.

The terrain was relatively flat and characterized by muskeg and small lakes. Extremely rough drilling was encountered at first because of boulders all the way down to a depth of 50 feet. Shale was later encountered and drilling improved somewhat. No usable records were produced during the week because of instrument breakdowns.

From January 17 to January 23, 1960, the crew worked in Latitude 61°50' and Longitude 118°00' to 118°45'. Drilling remained very hard all week with hard shale and sandstone encountered. Some sand and gravel was found near the surface. Record quality obtained this week was fair to good.

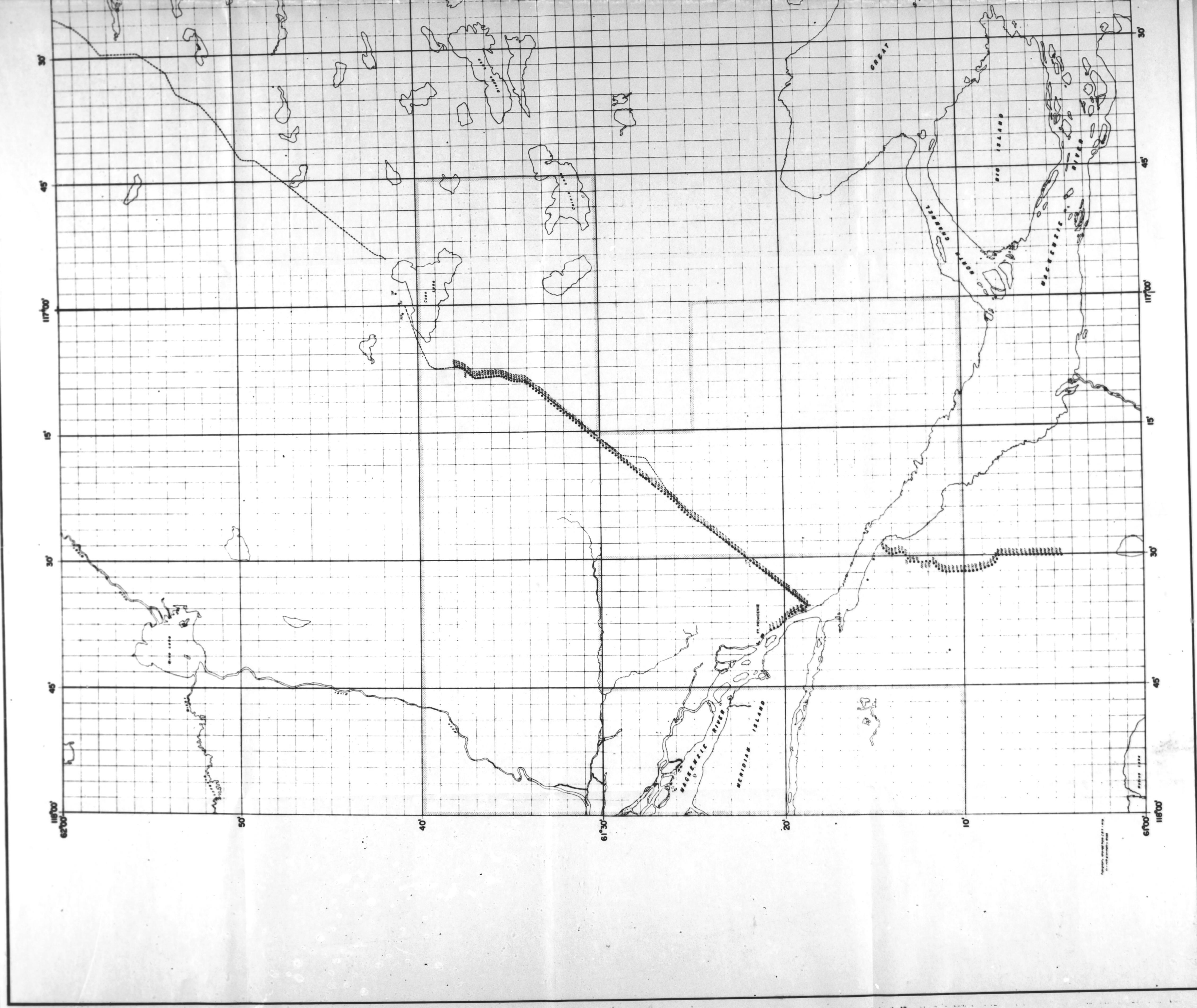
The week of January 24 to January 30, 1960 was extremely cold with recorded temperatures of 60° below zero. In spite of this all equipment continued to operate and there were no serious breakdowns. Water became a problem and long hauls were necessary. Generally the record quality was good all week.

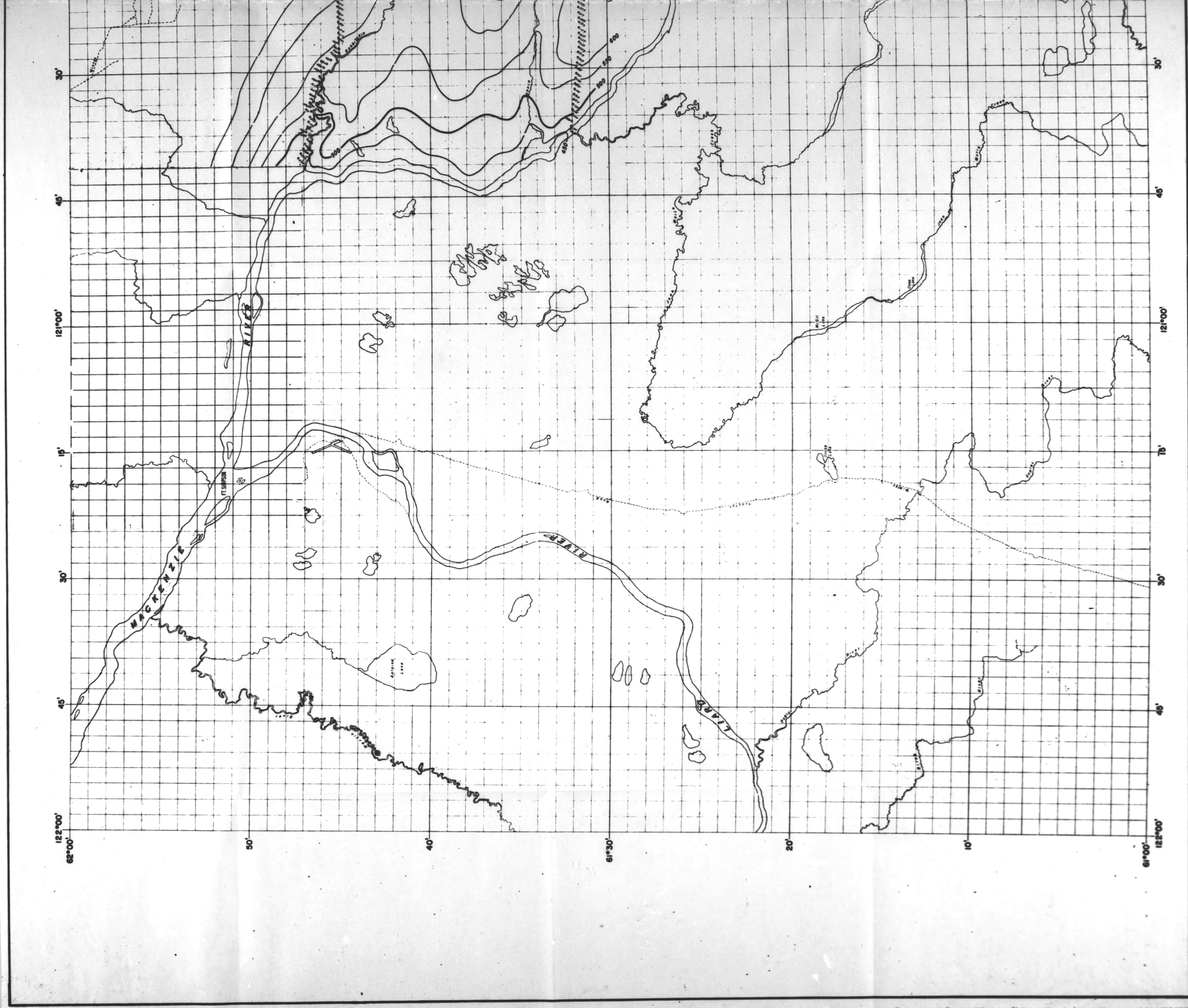
The crew worked in Latitude 61°50' Longitude 119°15' to 120°15' from January 31 to February 6, 1960. Drilling improved considerably and was mostly in clay with very few boulders. Record quality during the week was fair to good with some very poor records being obtained through the low lying areas.

Party 30 worked westward between longitude 120°45' and 121°00' from February 14 to February 20, 1960 and were in the area of Latitude 61°40' and Longitude 120°00' to 120°30' from February 21 to February 25, 1960. The crew completed their assignment on February 25, 1960.

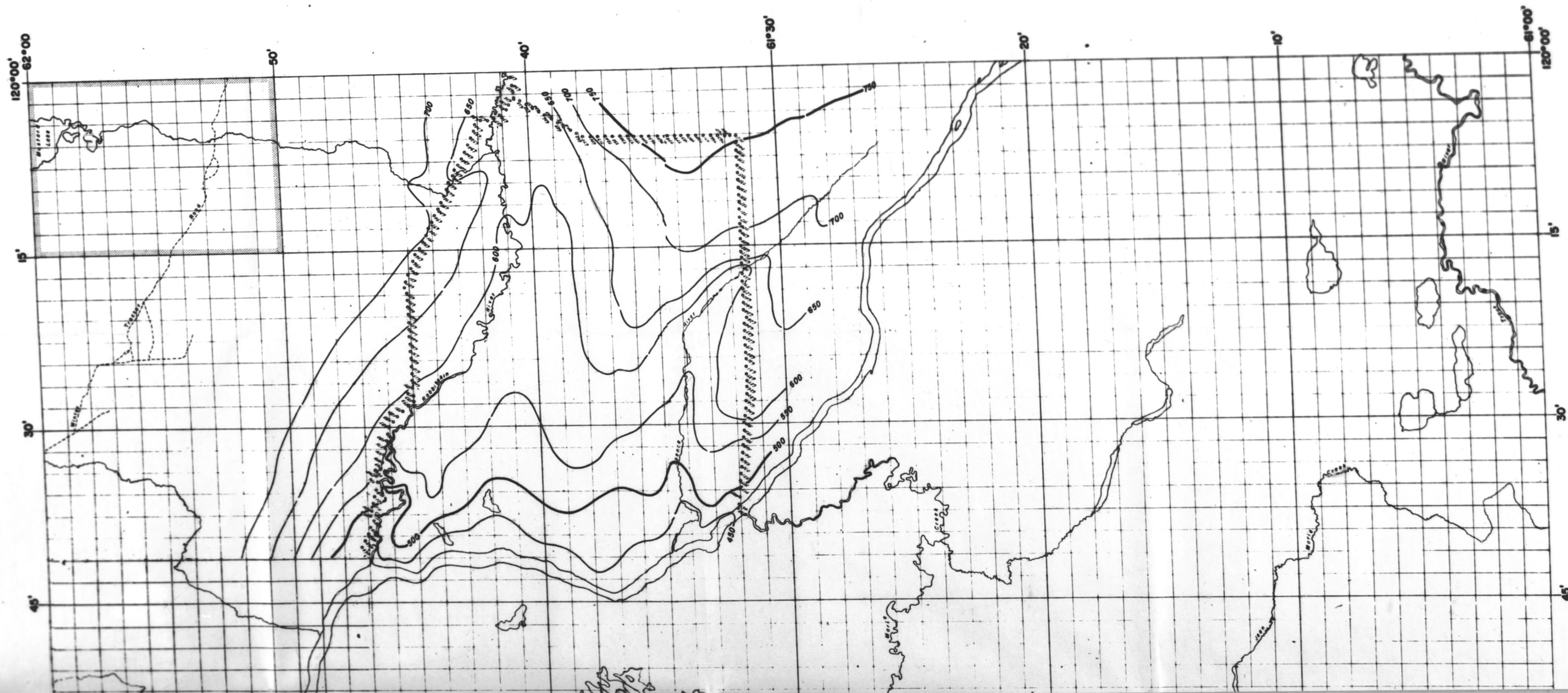
August 16, 1960.


G. B. Darling

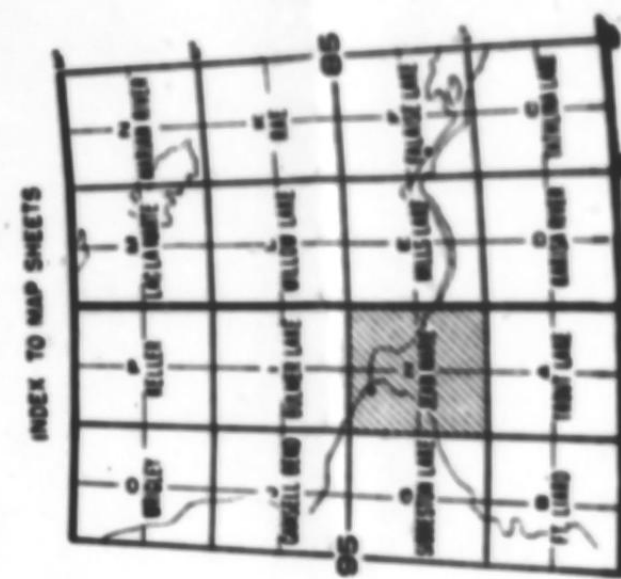
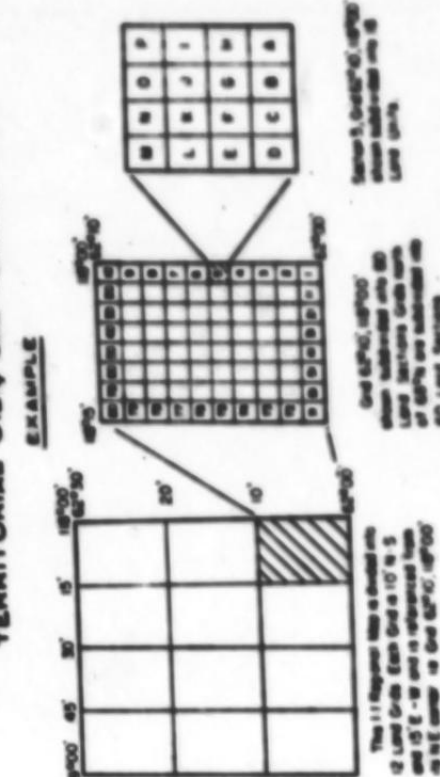




IMPERIAL OIL LIMITED
EXPLORATION DEPARTMENT PEACE RIVER DISTRICT
SURFACE ELEVATIONS



N.W.T. LAND REFERENCING SYSTEM
AS APPLIED TO
TERRITORIAL OIL & GAS REGULATIONS

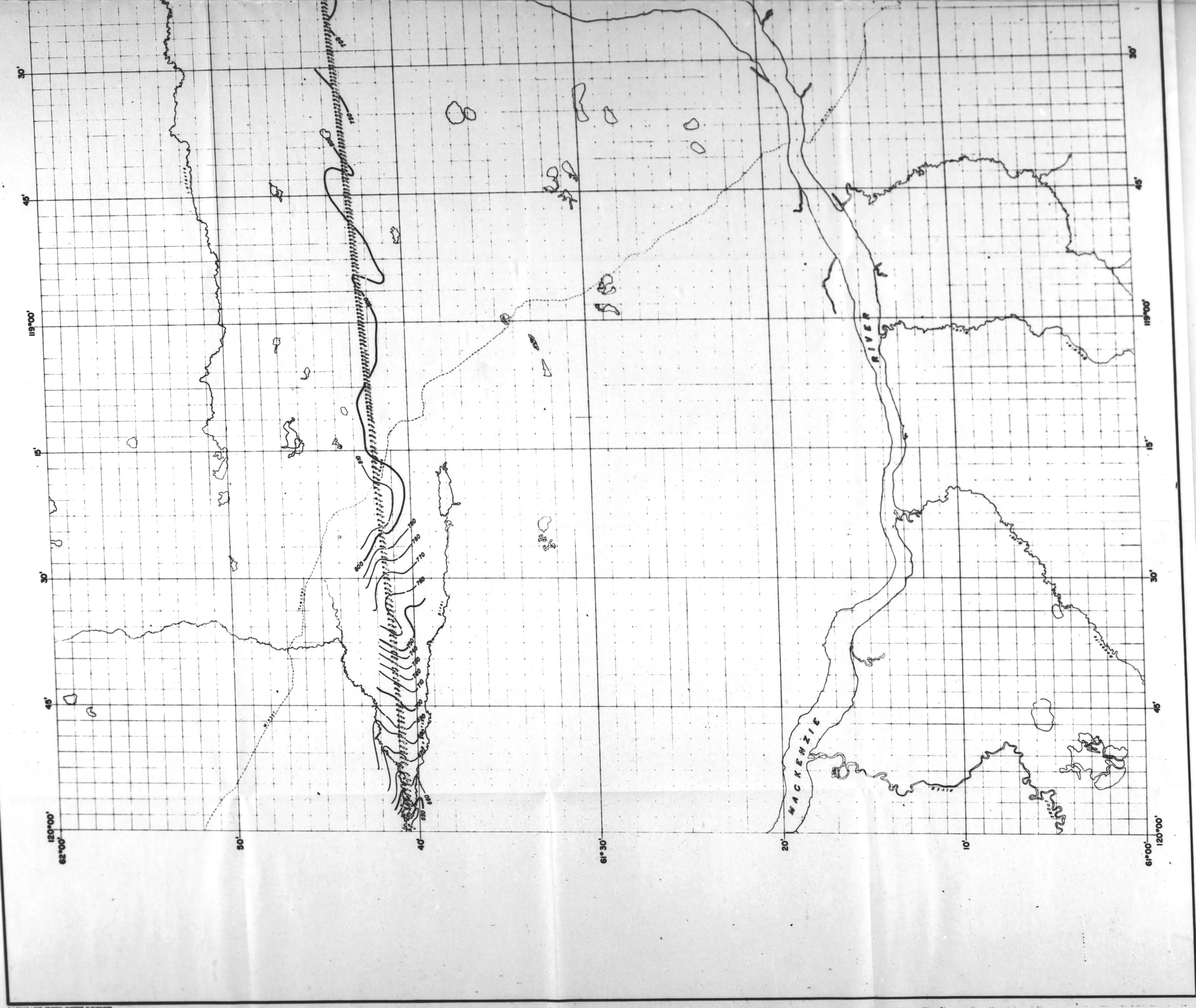


IMPERIAL OIL LIMITED
PEACE RIVER DISTRICT
SURFACE ELEVATIONS

SCALE: 1 INCH TO 1 MILE

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40	41	42	43	44	45	46	47	48	49
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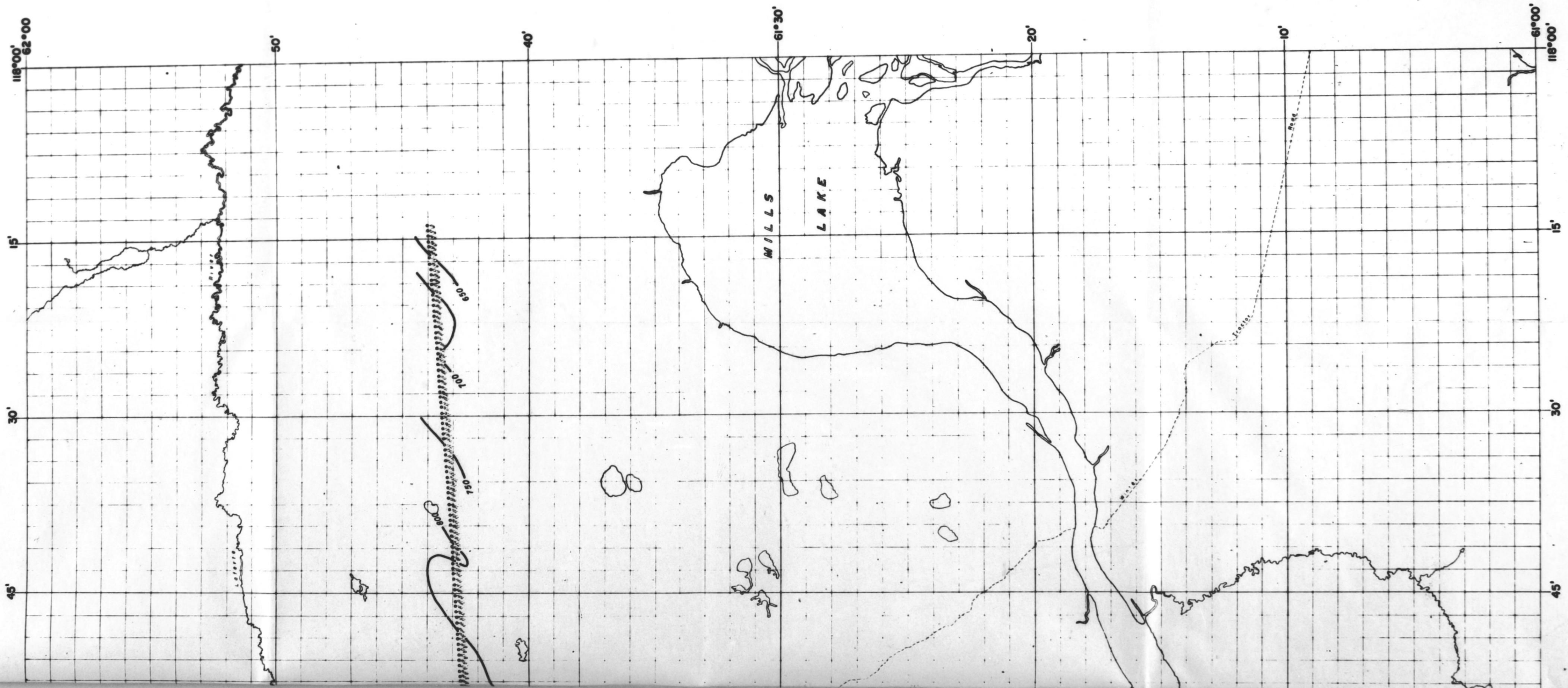
95H JEAN MARIE



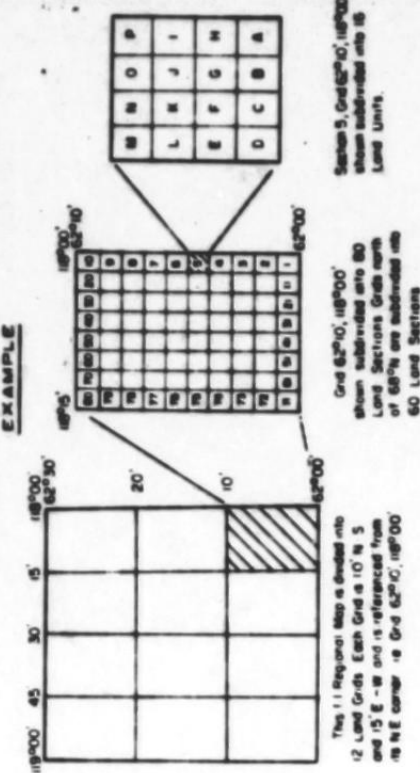
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IMPERIAL OIL LIMITED
EXPLORATION DEPARTMENT PEACE RIVER DISTRICT
SURFACE ELEVATIONS



N.W.T. LAND REFERENCING SYSTEM
AS APPLIED TO
TERRITORIAL OIL & GAS REGULATIONS



INDEX TO MAP SHEETS



IMPERIAL OIL LIMITED
MAP 8
SCALE: 2 MILES TO 1 INCH
JULY 1960

ASSEMBLY OF SHEETS
1. 1/4" x 1/4" (1:62,500) Scale
2. 1/2" x 1/2" (1:25,000) Scale
3. 1" x 1" (1:10,000) Scale
4. 2" x 2" (1:4,000) Scale
5. 4" x 4" (1:1,000) Scale
6. 8" x 8" (1:250) Scale
7. 16" x 16" (1:62,500) Scale
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147. 22300745198530623141535718272648361505980416" x 22300745198530623141535718272648361505980416" (1:0) Scale
148. 44601490397061246283071436545296723011960832" x 44601490397061246283071436545296723011960832" (1:0) Scale
149. 89202980794122492566142873090593446023921664" x 89202980794122492566142873090593446023921664" (1:0) Scale
150. 178405961588244985132285746181186892047843328" x 178405961588244985132285746181186892047843328" (1:0) Scale
151. 356811923176489970264571492362373784095686656" x 356811923176489970264571492362373784095686656" (1:0) Scale
152. 713623846352979940529142984724747568191373312" x 713623846352979940529142984724747568191373312" (1:0) Scale
153. 1427247692705959881058285969449495136382746624" x 1427247692705959881058285969449495136382746624" (1:0) Scale
154. 2854495385411919762116571938898990272765493248" x 2854495385411919762116571938898990272765493248" (1:0) Scale
155. 5708990770823839524233143877797980545530986496" x 5708990770823839524233143877797980545530986496" (1:0) Scale
156. 11417981541647679048466287755595961091061972992" x 11417981541647679048466287755595961091061972992" (1:0) Scale
157. 22835963083295358096932575511191922182123945984" x 22835963083295358096932575511191922182123945984" (1:0) Scale
158. 45671926166590716193865151022383844364247891968" x 45671926166590716193865151022383844364247891968" (1:0) Scale
159. 91343852333181432387730302044767688728495783936" x 91343852333181432387730302044767688728495783936" (1:0) Scale
160. 182687704666362864775460604089535377456991567872" x 182687704666362864775460604089535377456991567872" (1:0) Scale
161. 365375409332725729550921208179070754913983135744" x 365375409332725729550921208179070754913983135744" (1:0) Scale
162. 730750818665451459101842416358141509827966271488" x 730750818665451459101842416358141509827966271488" (1:0) Scale
163. 1461501637330902918203684832716283019655932542976" x 1461501637330902918203684832716283019655932542976" (1:0) Scale
164. 2923003274661805836407369665432566039311865085952" x 2923003274661805836407369665432566039311865085952" (1:0) Scale
165. 5846006549323611672814739330865132078623730171904" x 5846006549323611672814739330865132078623730171904" (1:0) Scale
166. 11692013098647223345629478661730264157247460343808" x 11692013098647223345629478661730264157247460343808" (1:0) Scale
167. 23384026197294446691258957323460528314494920687616" x 23384026197294446691258957323460528314494920687616" (1:0) Scale
168. 46768052394588893382517914646921056628989841375232" x 46768052394588893382517914646921056628989841375232" (1:0) Scale
169. 9353610478917778676