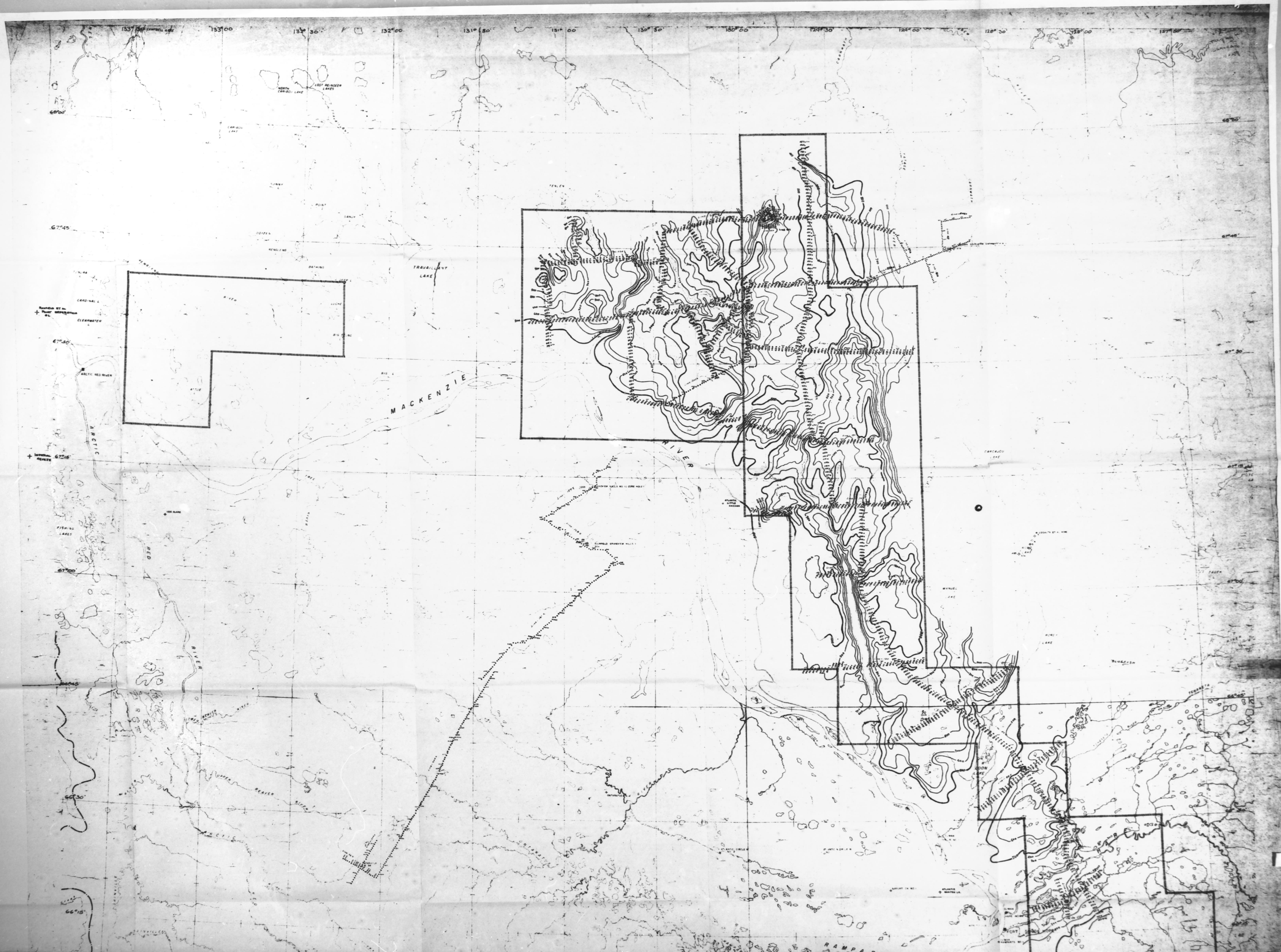


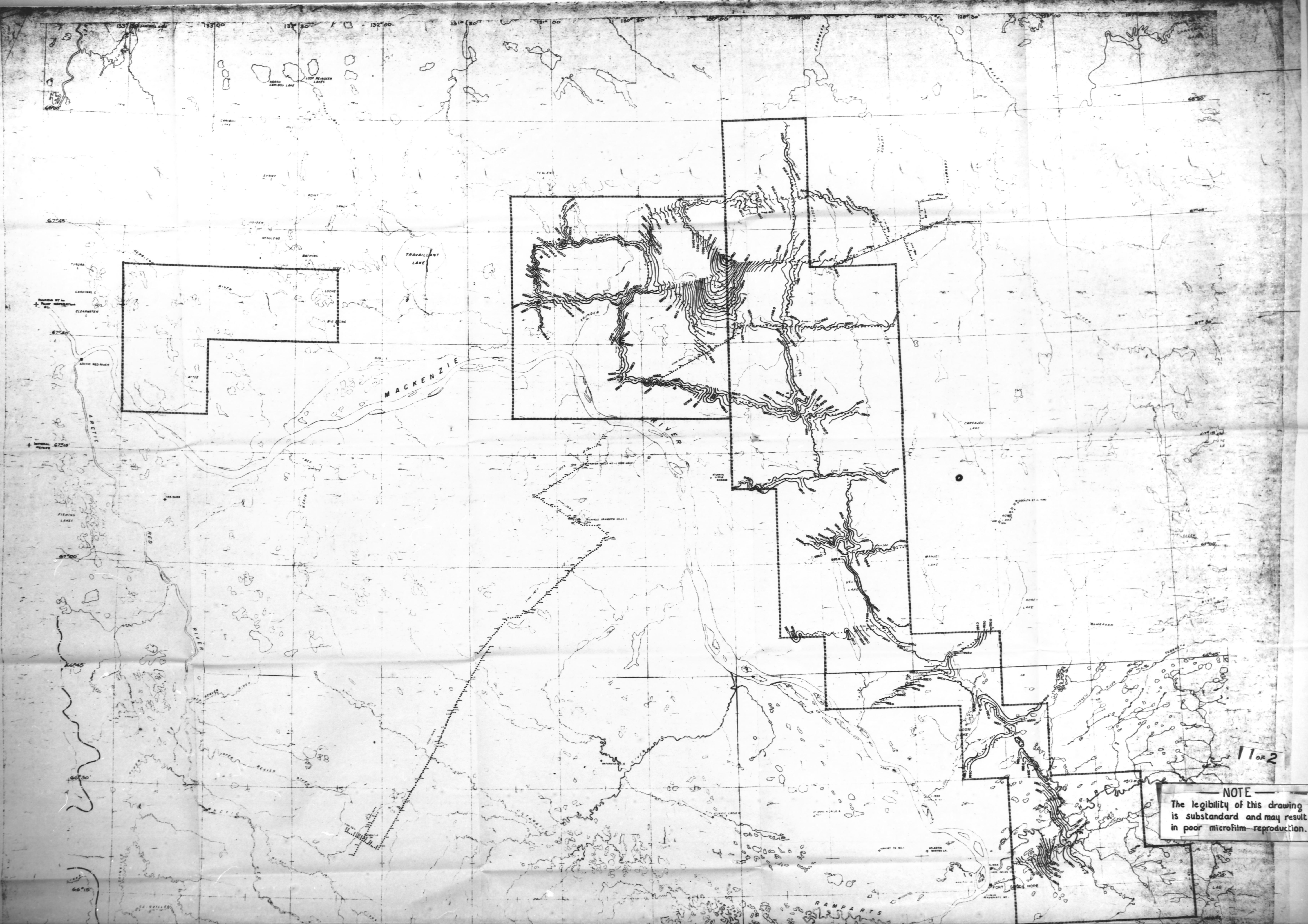




CHEVRON STANDARD LIMITED
 July 1, 1946
FORT GOOD HOPE
 SURFACE ELEVATIONS
 2 of 2

CHEVRON STANDARD LIMITED
 July 1, 1946
FORT GOOD HOPE
 BOUGUER GRAVITY ANOMALY
 2 of 2

NOTE
 The legibility of this drawing
 is substandard and may result
 in poor microfilm reproduction.



11 of 2

— NOTE —
The legibility of this drawing
is substandard and may result
in poor microfilm reproduction.

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RAMPARTS NTS 106-NE, 96-NW

Covering Permits
3912 to 3918 incl.
3989 to 3992 incl.
4085 to 4089 incl.
4090 to 4096 incl.
4105 to 4112 incl.
4119 to 4122 incl.

Project 45-6-4-66-1



Final Report on Gravity Survey Conducted by
Chevron Standard Limited
from December 1965 to April 1966

by
E. W. Jones

April 15, 1968

Maps in attached folder

1. Station Location and Elevation Map.
2. Bouguer Anomaly Map (1 copy only).

Geophysical Data for a Gravity Survey

Project 45-6-4-66-1

Company: Chevron Standard Limited

Location:

Area and Province - Ramparts NWT, NTS 106-NE, 96-NW
Longitude and Latitude - Lat. 66°00' to 68°00' N,
Long. 128°00' to 130°00' W.

Permit Numbers: 3912 to 3918 incl., 3989 to 3992 incl., 4085 to 4089 incl.,
4090 to 4096 incl., 4105 to 4112 incl., 4119 to 4122 incl.

Type of Survey:

Traverse Lines	Along Seismic lines
Direction	Various
Systematic areal coverage	None

Average Station Spacing: ¼ mile

Number of Observations in Survey: 1,800

Year of Observation: 1965 - 1966

Observer's Name: Robert H. Ray Co.

Form of Data

1. Original Traverse Data

<u>Gravimeters Used</u>	<u>Serial Nos.</u>	<u>Calibration Constant (mgal/div.)</u>
Romberg	#70	.1106

Method of calibration - Unknown.

Estimated accuracy of reading in divisions - $\pm .1$ Dial Divisions

2. Values of Observed Gravity

Units in which observed gravity value is given - milligals

Average time interval drift checks - 120 min. maximum.

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Project 45-6-4-66-1

Company: Chevron Standard Limited

Location:

Area and Province - Ramparts NWT, NTS 106-NE, 96-NW
Longitude and Latitude - Lat. 66°00' to 68°00' N,
Long. 128°00' to 130°00' W.

Permit Numbers: 3912 to 3918 incl., 3989 to 3992 incl., 4085 to 4089 incl.,
4090 to 4096 incl., 4105 to 4112 incl., 4119 to 4122 incl.

Type of Survey:

Traverse Lines	Along Seismic lines
Direction	Various
Systematic areal coverage	None

Average Station Spacing: $\frac{1}{4}$ mile

Number of Observations in Survey: 1,800

Year of Observation: 1965 - 1966

Observer's Name: Robert H. Ray Co.

Form of Data

1. Original Traverse Data

<u>Gravimeters Used</u>	<u>Serial Nos.</u>	<u>Calibration Constant (mgal/div.)</u>
Romberg	#70	.1106

Method of calibration - Unknown.

Estimated accuracy of reading in divisions - $\pm .1$ Dial Divisions

2. Values of Observed Gravity

Units in which observed gravity value is given - milligals

Average time interval drift checks - 120 min. maximum.

3. Values of Bouguer Anomaly

Formula used for calculation of theoretical gravity (International Formula, or specify)	International Formula
Elevation datum used in calculation of Bouguer anomaly	Sea level
Density used in making elevation corrections	2.0 gm/cc
Terrain corrections made	Inner estimated only

Elevations

Unit (feet or meters)	feet
Elevations determined by	stadia
Elevations referred to	Arbitrary starting point
Estimated accuracy of elevations	± 10 feet

Position Coordinates

- | | |
|------------------------------------|--------------------------|
| 1. Scaled from maps at a scale of | 1:250,000 |
| 2. Surveyed | |
| Method of survey | Transit and stadia board |
| Units of distance | feet |
| Position of origin of survey | Fort Good Hope |
| 3. Computed from Decca coordinates | |
| 4. Referenced to | Polyconic projection |

Gravity Control

1. Tied to Dominion Observatory Stations
- | | |
|---------------|-----------------|
| <u>Number</u> | <u>Location</u> |
|---------------|-----------------|

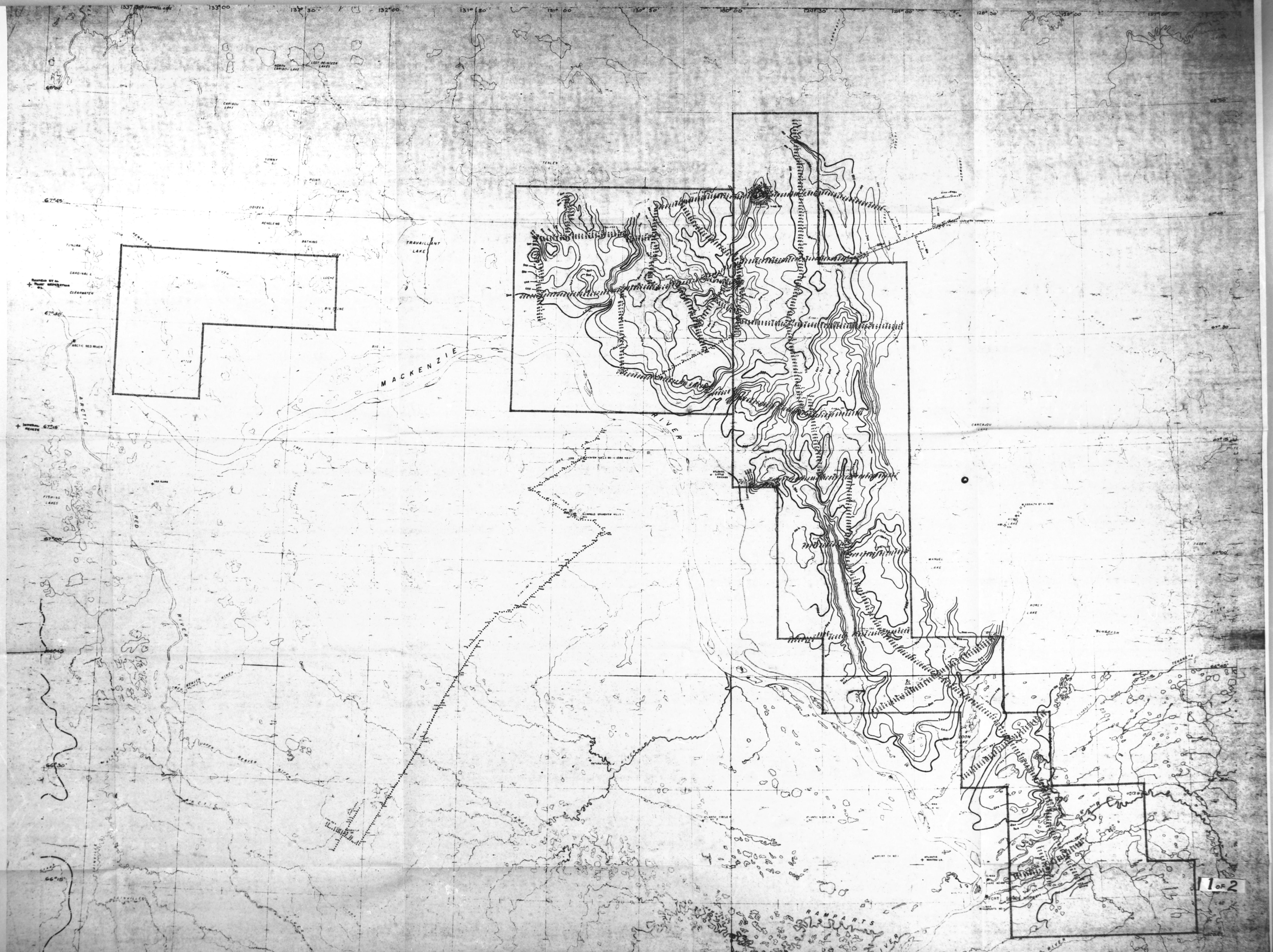
Fort Good Hope
(Approximate as actual site could not be positively identified)

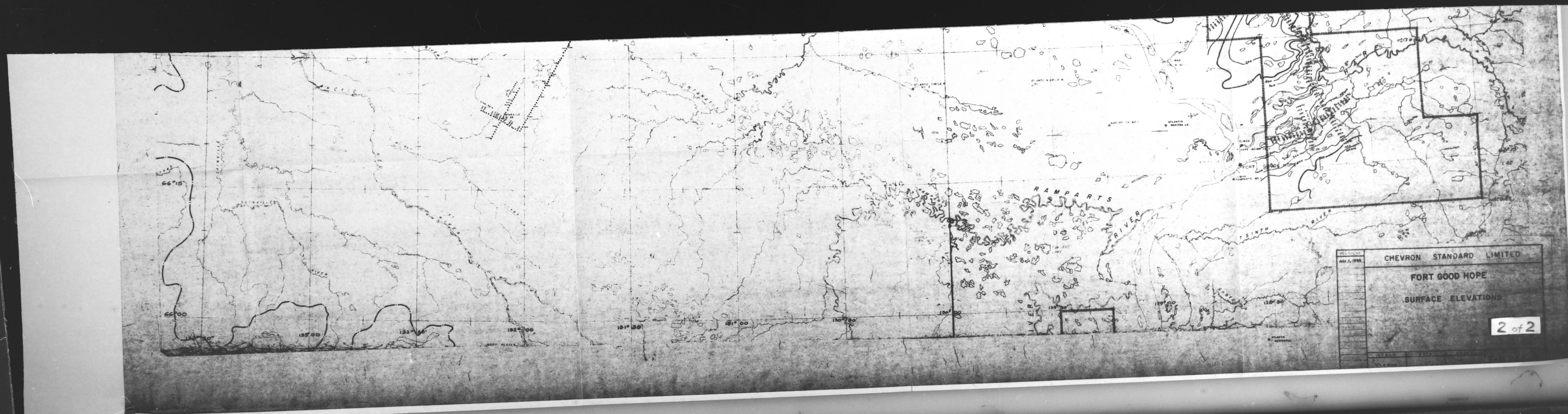
2. Tied to Local System

Location and gravity value of main reference stations

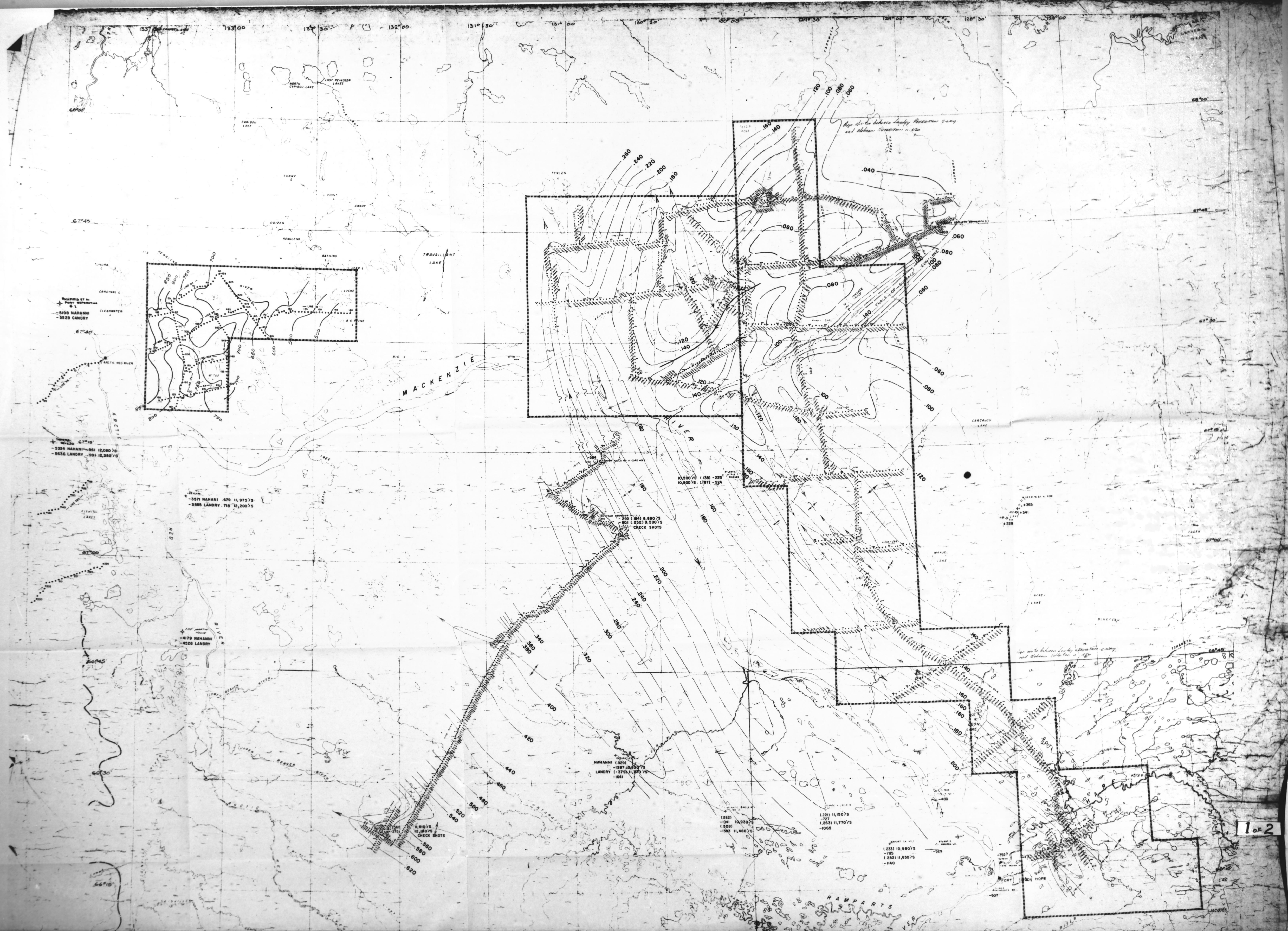
E. W. Jones

E. W. JONES April 26, 1968
District Geophysicist
Chevron Standard Limited









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Project 45-6-4-66-1

Final Report on Seismic Survey Conducted by
Chevron Standard Limited
from December 1965 to April 1966

by
E. W. Jones

April 15, 1968

Maps in attached folder

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Project 45-6-4-66-1

Final Report on Seismic Survey Conducted by
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from December 1965 to April 1966

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April 15, 1968

Maps in attached folder

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GEOPHYSICAL DATA FOR SEISMIC SURVEY

Project 45-6-4-66-1

LOCATION

Area and Province	Ramparts, N.W.T.
Longitude and Latitude	66°15' to 68°00', 128°00' to 130°00'
Permit Numbers	3912 to 3918, 3989 to 3992, 4085 to 4089, 4090 to 4096, 4105 to 4112, 4119 to 4122.

DATE OF PROGRAM

December 1, 1965 to April 29, 1966

TYPE OF SURVEY

Analog or Digital	Analog
Type of Source	Powder and caps

FIELD RECORDING EQUIPMENT

Seismometer Model	EV-S2
Seismometer Frequency	20
Seismometer Base	Flat
Amplifier Model	PT-100
Camera Model	Pro-11
Type of Magnetic Tape	Fortune SRS
Land Survey Instrument and Method	Theodolite and chain traverse
Cables	Vector and Tesco (2 sections per ½ mile)

FIELD PROCEDURE AND OPERATIONS

Refraction

Inline or Broadside	Inline end on
---------------------	---------------

Reflection

% of Subsurface Coverage	100%
--------------------------	------

Spread Configuration

	2640 - 220 - 0 - 220 - 2640
Number Groups Recorded	24
Group Interval	220
Number Seismometers/Group	6
Seismometer Interval	20
Array Pattern	Linear

Source Configuration

Number of Holes and Depth	1 x 60'
Inline or Offset to Spread	Inline
Charge Size and Type	10# reflection 50# refraction

Transportation

Type of Vehicles	Wheeled and cats
Fixed Wing Aircraft	DC-3 and Beaver
Helicopter Support	None

Terrain Conditions

General Terrain Description	1300 feet of relief
-----------------------------	---------------------

RECORDING FACTORS

Monitor Record

Filter	20 - 100
AVC	
Gain	Medium

Spread Configuration 2640 - 220 - 0 - 220 - 2640

Number Groups Recorded	24
Group Interval	220
Number Seismometers/Group	6
Seismometer Interval	20
Array Pattern	Linear

Source Configuration

Number of Holes and Depth	1 x 60'
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Transportation

Type of Vehicles	Wheeled and cats
Fixed Wing Aircraft	DC-3 and Beaver
Helicopter Support	None

Terrain Conditions

General Terrain Description	1300 feet of relief
-----------------------------	---------------------

RECORDING FACTORS

Monitor Record

Filter	20 - 100
AVC	
Gain	Medium

Magnetic Tape

Filter	20 - 100
AVC	
Gain	Medium

Field Playbacks

Filter	20-60
AVC	
Gain	Fixed
Mixing	None

PERSONNEL

Field	40 - 45
Office	Infield
Titleholders	Chevron Standard Limited
Individual Responsibility	Mr. H.E. Engman, District Geophysicist Chevron Standard Limited
Contractors	Ray Geophysical Company Ltd. Sedco Exploration Company Ltd. Progressive Construction Ltd.

OFFICE TECHNIQUES

Datum Computation	+500 ft. reference plane, VR 12,000'/S
Weathering Sections	Plotted in field
Record Sections	Yes
Type of Display	VA-WT
Maps	Based on composite of refraction and reflection data.

STATISTICS SUMMARY

Number of Recording Days	106
<u>Number of Profiles</u>	
Reflection	769
Refraction	764
Total Production	
Miles of Surface Coverage	359.33
Miles of Subsurface Coverage	359.33
Number of Shot Holes Drilled	742
Total Footage Drilled	54,885

TRANSMITTAL OF RECORDED DATA

1. Shot point location map
2. Time Structure Top of Nahanni



E. W. JONES
District Geophysicist
Chevron Standard Limited

May 3, 1968