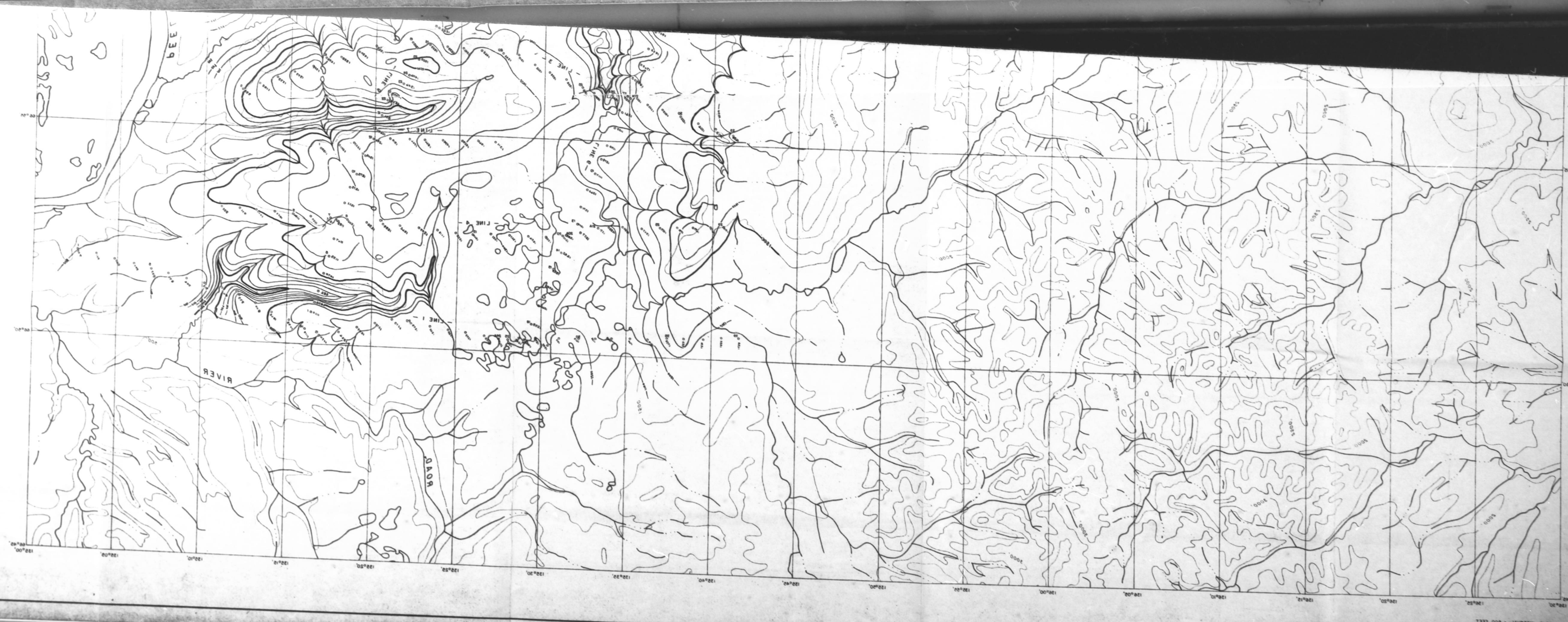


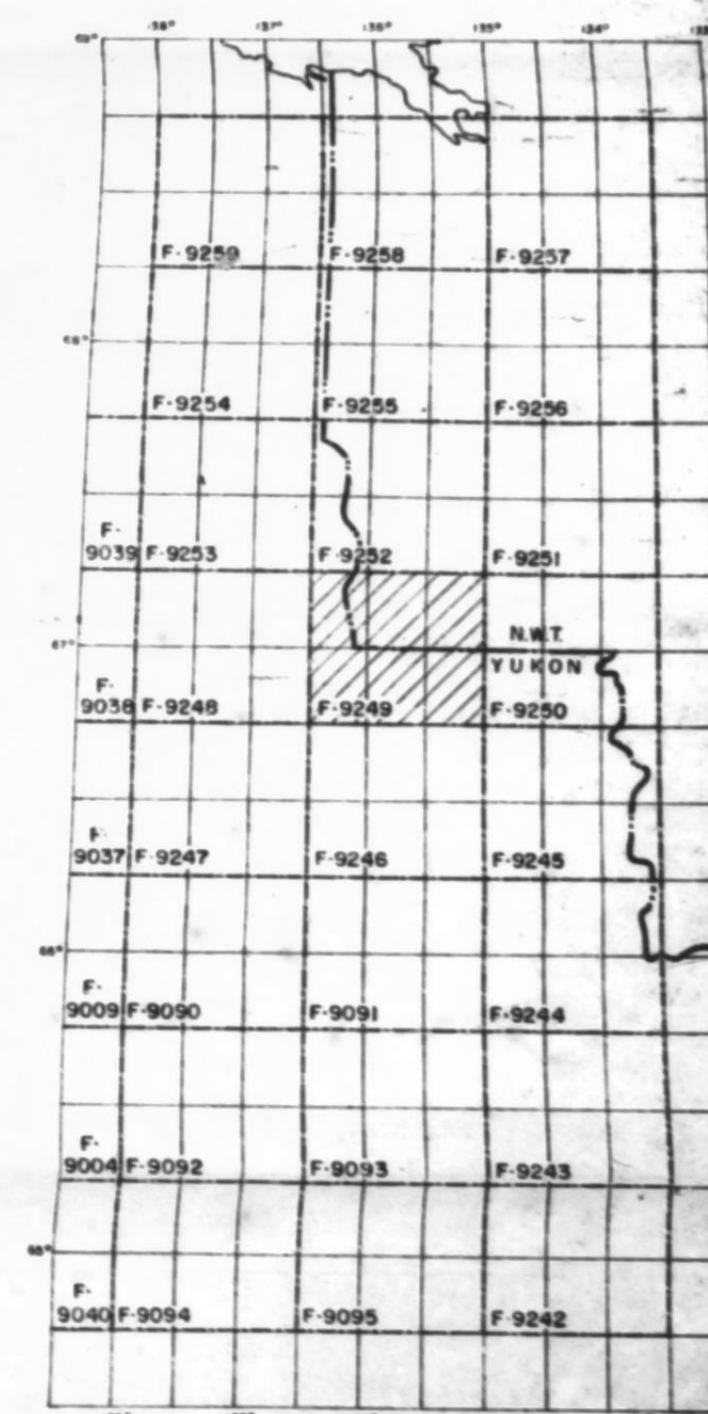
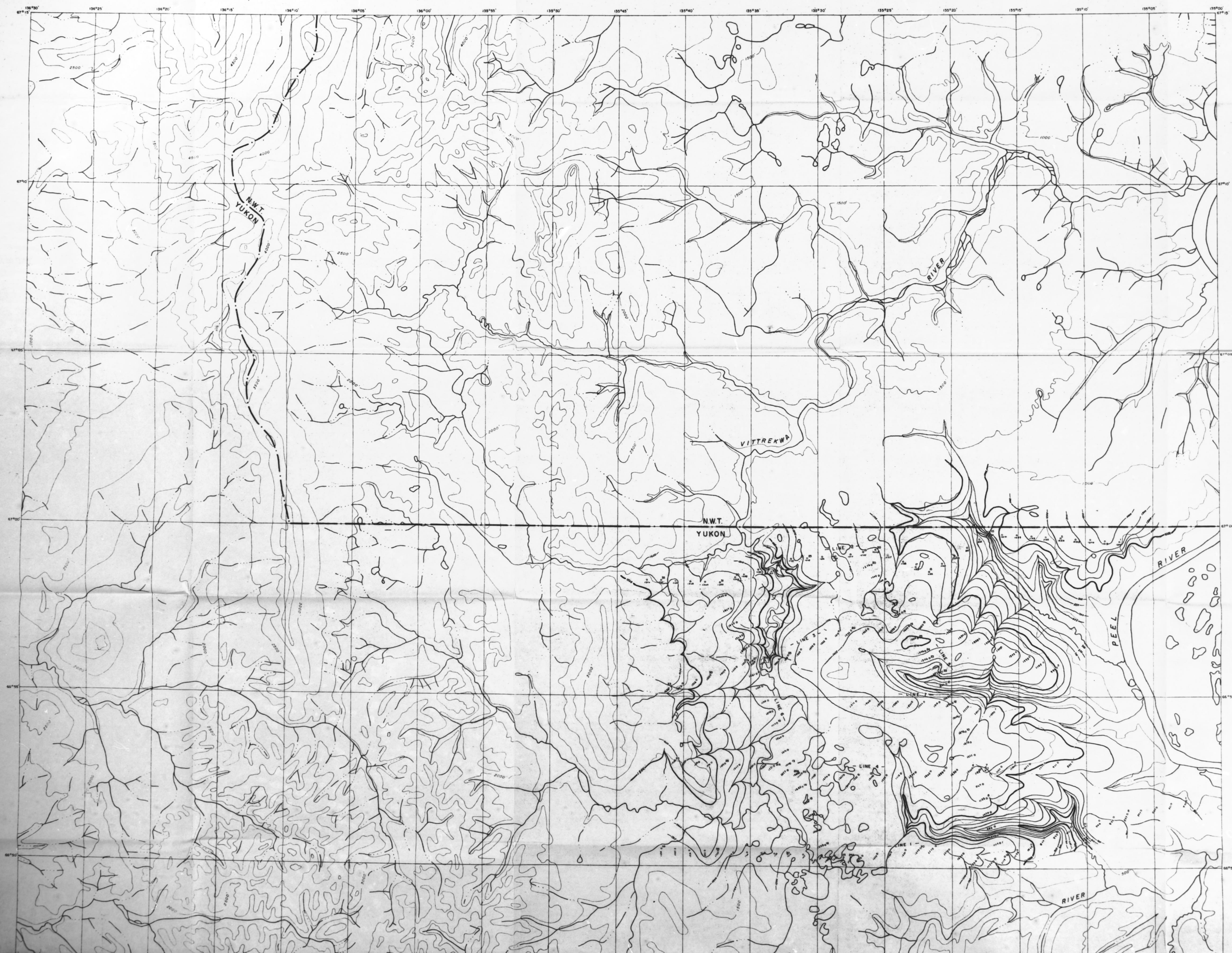


F. 9259	F. 9258	F. 9257
F. 9254	F. 9255	F. 9256
F. 9039 F. 9253	F. 9252	F. 9251
F. 9038 F. 9248	F. 9249	F. 9250
F. 9037 F. 9247	F. 9246	F. 9245
F. 9009 F. 9090	F. 9091	F. 9244
F. 9004 F. 9092	F. 9093	F. 9243
F. 9040 F. 9094	F. 9095	F. 9242

2 of 2

F. 9259	F. 9258	F. 9257
F. 9254	F. 9255	F. 9256
F. 9039 F. 9253	F. 9252	F. 9251
F. 9038 F. 9248	F. 9249	F. 9250
F. 9037 F. 9247	F. 9246	F. 9245
F. 9009 F. 9090	F. 9091	F. 9244
F. 9004 F. 9092	F. 9093	F. 9243
F. 9040 F. 9094	F. 9095	F. 9242





4 5- 8- 6- 6 2

CONFIDENTIAL

VITREKWA RIVER NTS 106-L

Final Report on Gravity Survey Conducted by
Chevron Standard Limited
during July and August 1965

by

E. W. Jones

April 15, 1968

COMPLETE

CONFIDENTIAL

VITREKWA RIVER NTS 106-L

Permits 3722, 3723, 3724

Project: None issued



Final Report on Gravity Survey Conducted by
Chevron Standard Limited
during July and August 1965

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: None issued

Company: Chevron Standard Limited

Location:

Area and Province - Vittrekwa, Yukon Terr. NTS 106-L
Longitude and Latitude: - Lat. $66^{\circ}50'$ to $67^{\circ}00'$ N,
Long. $135^{\circ}05'$ to $135^{\circ}40'$ W.

Permit Numbers: 3722, 3723, 3724.

Type of Survey:

Traverse Lines - X Along Seismic Lines
Direction - Various
Systematic areal coverage - None

Average Station Spacing: 4 stations per mile

Number of Observations in Survey: 356

Year of Observation: 1965

Observer's Name: Velocity Surveys Limited

Form of Data

1. Original Traverse Data

<u>Gravimeters Used</u>	<u>Serial Nos.</u>	<u>Calibration Constant (mgal/div.)</u>
Worden	#171	0.1063 (8)

Method of calibration - Unknown (calibration stations not available)
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 - $1\frac{1}{2}$ hr.

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	- 2.2
Terrain corrections made	- Inner estimated only.

Elevations

Unit (feet or meters)	- feet
Elevations determined by	- stadia
Elevations referred to	- Elevation brought in from Peel River, unreliable.
Estimated accuracy of elevations	- $\pm 10'$

Position Coordinates

- | | |
|------------------------------------|------------------------------------|
| 1. Scaled from maps of a scale of | - 1:250,000 |
| 2. Surveyed | |
| Method of Survey | - TIA theodolite & stadia board. |
| Units of distance | - feet |
| Position of origin of survey | - Gravity Base #3 Velocity surveys |
| 3. Computed from Decca Coordinates | - |
| 4. Referenced to | - Polyconic projection |

Gravity Control

1. Tied to Dominion Observatory Stations

<u>Number</u>	<u>Location</u>
Not carried from Government stations	

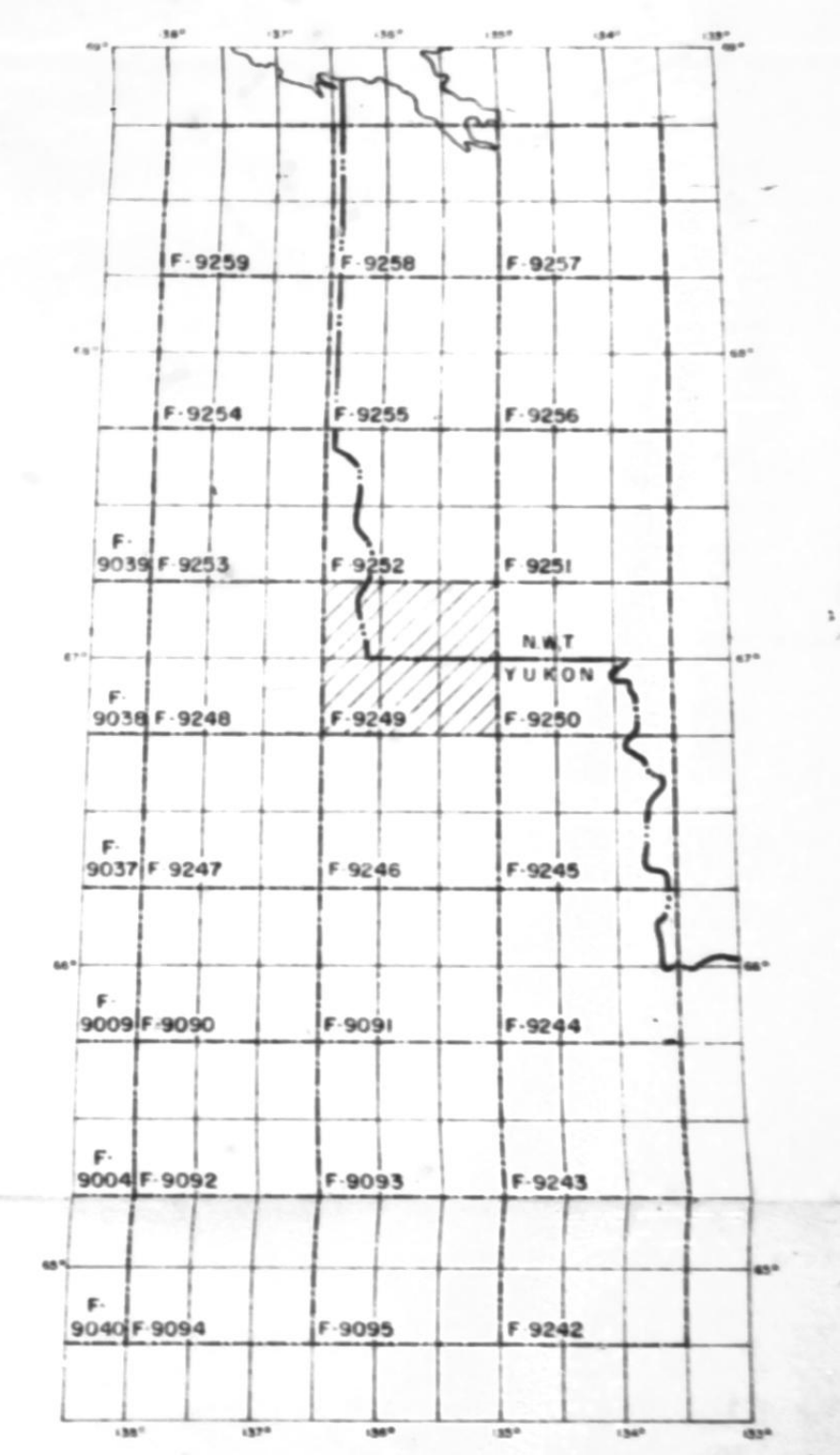
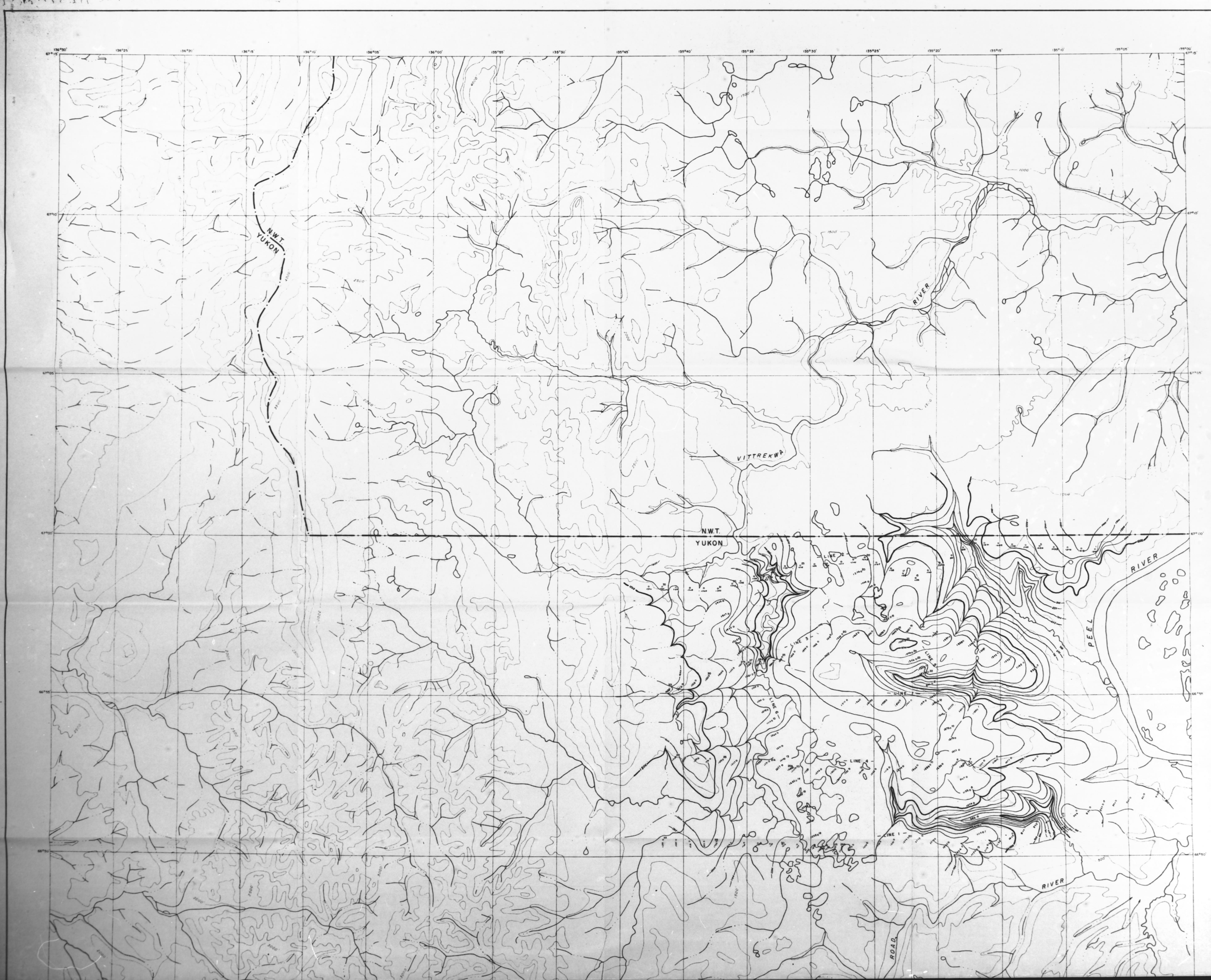
2. Tied to Local System

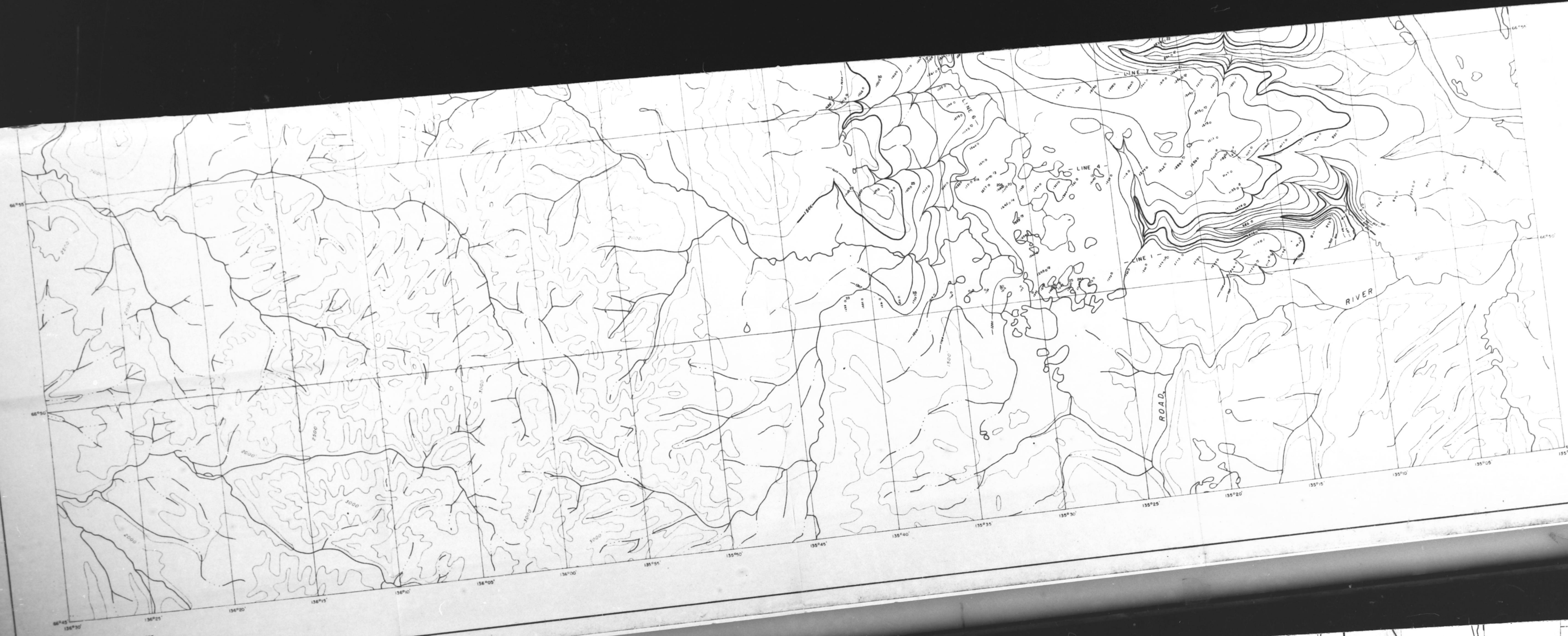
Location and gravity value of main reference stations:

Velocity Surveys Base #3. Approx. 2600' west of $135^{\circ}15'$ W and 2200' North of $66^{\circ}50'$ N. Lat. Base value 280.56 mg. assigned.

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

E. W. Jones





F 9255	F 9252	F 9251
F 9253	F 9248	F 9245
F 9247	F 9246	F 9244
F 9243	F 9242	

CHEVRON STANDARD LIMITED

VITTREKWA RIVER AREA

SURFACE ELEVATIONS

12 of 2

106-L-NW

SCALE: 1 INCH = 1 MILE

DATE: APRIL 22/60

DRAWN: L.P.L.

PROJECT: F9249A-2



F 9255	F 9252	F 9251
F 9253	F 9248	F 9245
F 9247	F 9246	F 9244
F 9243	F 9242	

CHEVRON STANDARD LIMITED

VITTREKWA RIVER AREA

TIME SEISMIC CONTOURS

ON TOP OF

MIDDLE DEVONIAN CARBONATE

BY B.E. WATSON

106-L-NW

SCALE: 1 INCH = 1 MILE

DATE: APRIL 22/60

DRAWN: L.P.L.

PROJECT: F9249A-3

CONFIDENTIAL

Vittrekwa River NTS 106-L

Final Report on Seismic Survey Conducted by
Chevron Standard Limited
During July and August 1965

by

E. W. Jones

April 15, 1968

Complete Copy

CONFIDENTIAL

VITREKWA RIVER NTS 106-L

Permits 3722, 3723, 3724

Project - None issued

Final Report on Seismic Survey Conducted by
Chevron Standard Limited
During July and August 1965

by
E. W. Jones

April 15, 1968



Maps in attached folder

TABLE OF CONTENTS

	<u>Page</u>
LOCATION	1
TYPE OF SURVEY	1
FIELD RECORDING EQUIPMENT	1
FIELD PROCEDURES AND OPERATION	1
RECORDING FACTORS	2
PERSONNEL	3
OFFICE TECHNIQUES	3
STATISTICS SUMMARY	4

ENCLOSURES

1. Shot Point Location and Ground Elevation Map
2. Time Structure on Middle Devonian Carbonates

GEOPHYSICAL DATA FOR SEISMIC SURVEY

Project - No number issued

LOCATION

Area and Province	Vittrekwa, Yukon Territory
Longitude and Latitude	66°50' to 67°00', 135°00' to 135°45'
Permit Numbers	3722, 3723, 3724

TYPE OF SURVEY

Analog or Digital	Analog (Helicopter portable)
Type of Source	Powder and caps

FIELD RECORDING EQUIPMENT

Seismometer Model	Geospace Marsh and Surface phones
Seismometer Frequency	20 cycles
Amplifier Model	PT-100 S.I.E. 24 channels
Type of Magnetic Tape	Fortune SR-5 Transport
Land Survey Instrument and Method	T-1A Theodolite, chain and Triangulation
Cables	6- $\frac{1}{4}$ mile 24 conductor w/breast reels

FIELD PROCEDURE AND OPERATIONS

Refraction

Inline or Broadside	None
---------------------	------

Reflection

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

Spread Configuration

	2640 - 220 - 0 - 220 - 2640
Number Groups Recorded	24
Group Interval	220'
Number Seismometers/Group	3 (Marsh) 9 Surface occasionally
Seismometer Interval	Grouped
Array Pattern	Grouped

Source Configuration

Number of Holes and Depth	1 - 60' Av. depth
Inline or Offset to Spread	Inline
Charge Size and Type	50 - 75# @ 60'

Transportation

Fixed Wing Aircraft	Beaver-Crew and Camp support
Helicopter Support	2 Vertols - 44B and 42A - Drills 1 Hiller 12E - Recorder

Terrain Conditions

General Terrain Description	Program on high ground in moderately rugged terrain intersected by steep ravines. Elevations range from 100 feet at Peel River to 1700 feet at the base of the Richardson Mountains. No muskeg problems because of the permafrost.
-----------------------------	--

RECORDING FACTORS

Monitor Record

Filter	20 cps - 100 cps - 1
AVC	Medium
Gain	0 db.

Magnetic Tape

Filter	20 - 100 - 1
AVC	Medium
Gain	0 db.

Field Playbacks

Filter	31 - 47 - 2
AVC	Medium
Gain	0 db.
Mixing	None

PERSONNEL

Field	74 men
Titleholders	Chevron Standard Limited
Individual Responsibility	Mr. H. E. Engman, District Geophysicist Chevron Standard Limited
Contractors	Velocity Surveys Limited

OFFICE TECHNIQUES

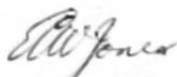
Datum Computation	Reference Plane + 1000 ft. Vd 9000'/S
Weathering Sections	Plotted in field - No near surface problems
Record Sections	Yes
Type of Display	Variable area
Maps	Yes

STATISTICS SUMMARY

Number of Recording Days	24
<u>Number of Profiles</u>	
Reflection	200
Refraction	0
Total Production	199
Miles of Surface Coverage	90
Miles of Subsurface Coverage	90
Number of Shot Holes Drilled	199
Total Footage Drilled	12,020

TRANSMITTAL OF RECORDED DATA

1. Shot point location and Ground Elevation Map.
2. Time Structure on Middle Devonian Carbonates.



E. W. JONES
District Geophysicist
Chevron Standard Limited

May 3, 1968