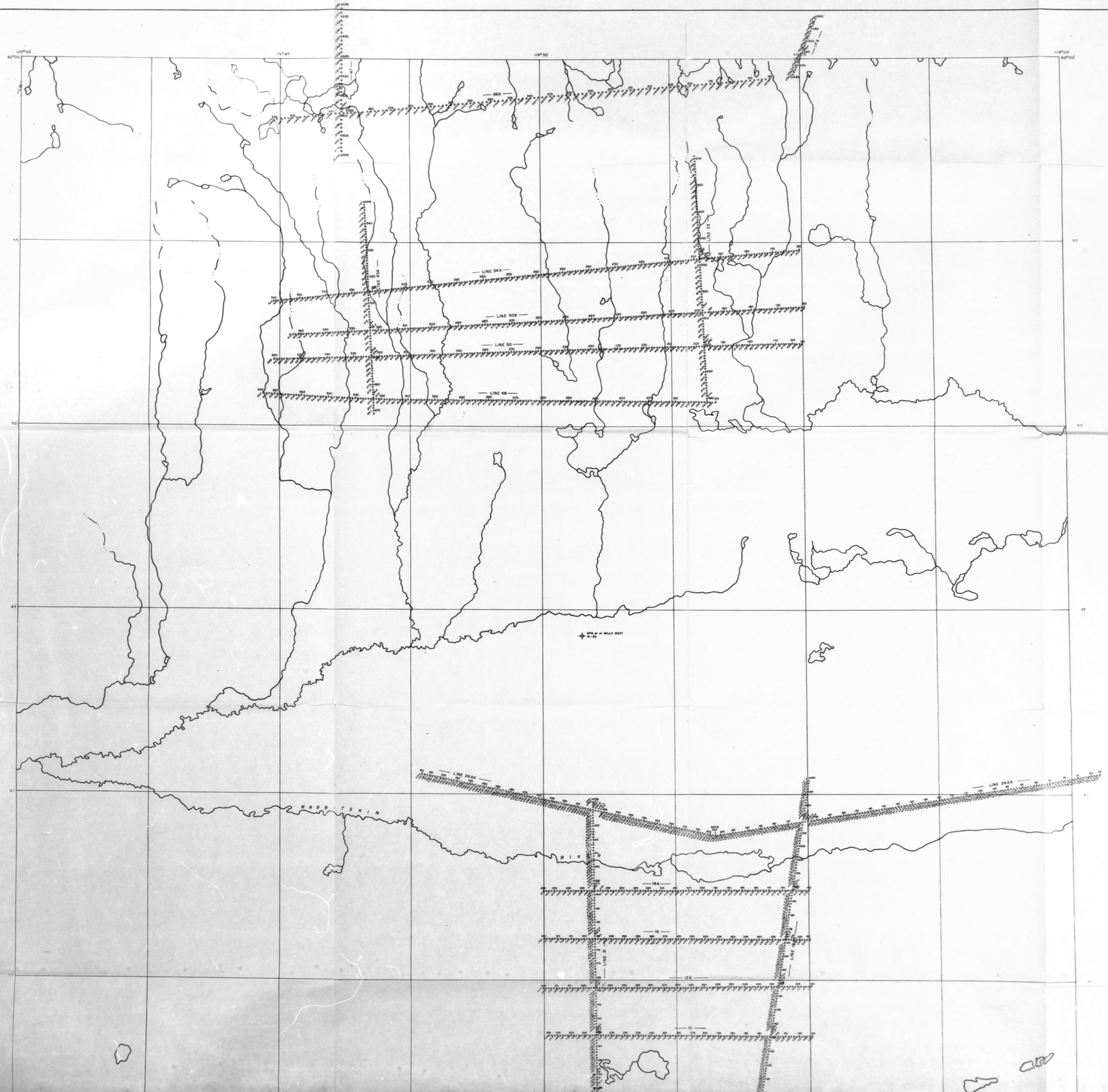
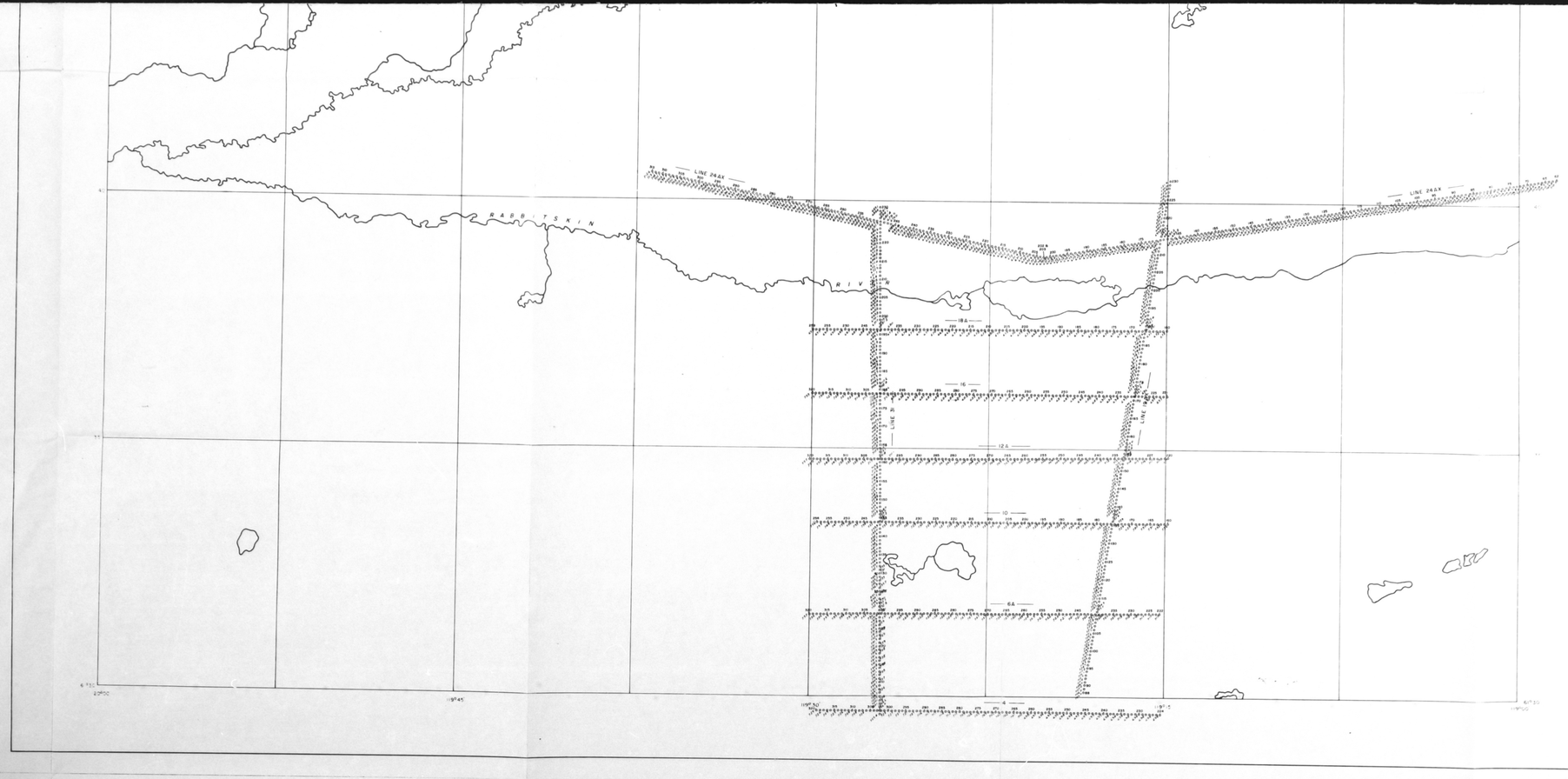

120°00'
62°00'
119°45'
119°30'
119°00'
62°00'
55
50
45
40
35
LINE 66X
LINE 54X
LINE 50X
LINE 50
LINE 48
LINE 24AX
LINE 24AX
LINE 19A
LINE 16
LINE 12A
LINE 10
LINE 8
LINE 6
LINE 4
LINE 2
LINE 1
LINE 3
LINE 5
LINE 7
LINE 9
LINE 11
LINE 13
LINE 15
LINE 17
LINE 19
LINE 21
LINE 23
LINE 25
LINE 27
LINE 29
LINE 31
LINE 33
LINE 35
LINE 37
LINE 39
LINE



NOTE FOR INDEX MAP SEE F-6797E-1

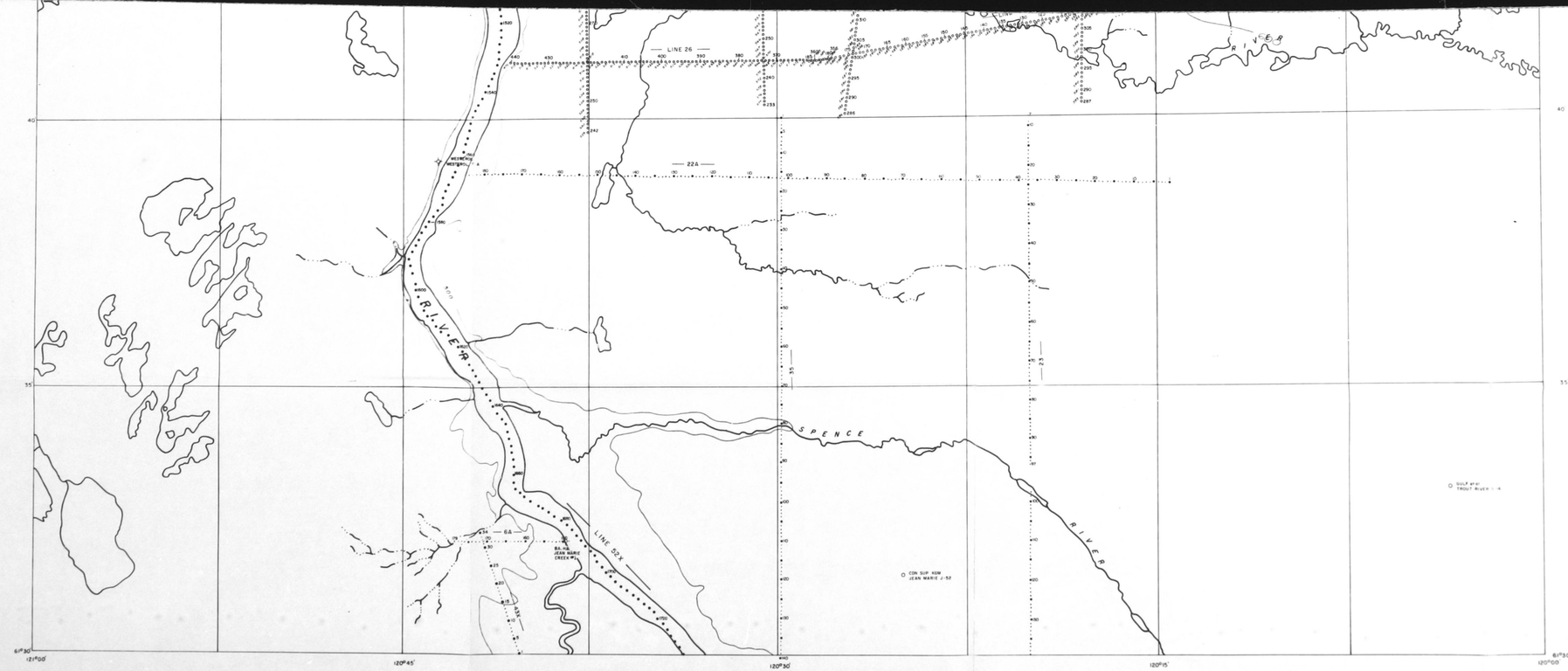
REVISIONS	CHEVRON STANDARD LIMITED
WELLS DEC 67	85-E-NW
WELLS MAR 68	HORN PLATEAU AREA
	SURFACE ELEVATIONS

SCALE	DATE	DRAWN	
1 INCH = 1 MILE	JUNE, 1965	D.E.W.	F-9877 3

SEISMIC
49-B-2

2 of 2

008209 18M



NOTE FOR INDEX MAP SEE F-6797E-1

REVISIONS	
WELLS DEC 67	
WELLS APRIL 68	

CHEVRON STANDARD LIMITED

95-H-NE

GREEN ISLAND AREA

SURFACE ELEVATIONS

C.I. = 100ft

July 1970

SCALE	DATE	DRAWN	
1 INCH 1 MILE	JUNE, 1965	DEW	F-9876-12

21-H-5 SEISMIC

2 of 2

1 of 2

NOTE FOR INDEX MAP SEE F-6707E-1

CONFIDENTIAL

Final Report on Seismic Survey
Conducted by Chevron Standard Limited
January-March 1970
Mustard Lake-Horn Plateau
Group 388 Gov. Project 45-6-4-69-4

CONFIDENTIAL

Area: Mustard Lake-Horn Plateau, N.W.T.

Government Project: 45-6-4-69-4

Group: 388

Final Report on Seismic Survey Conducted By:

Chevron Standard Limited

January - March 1970

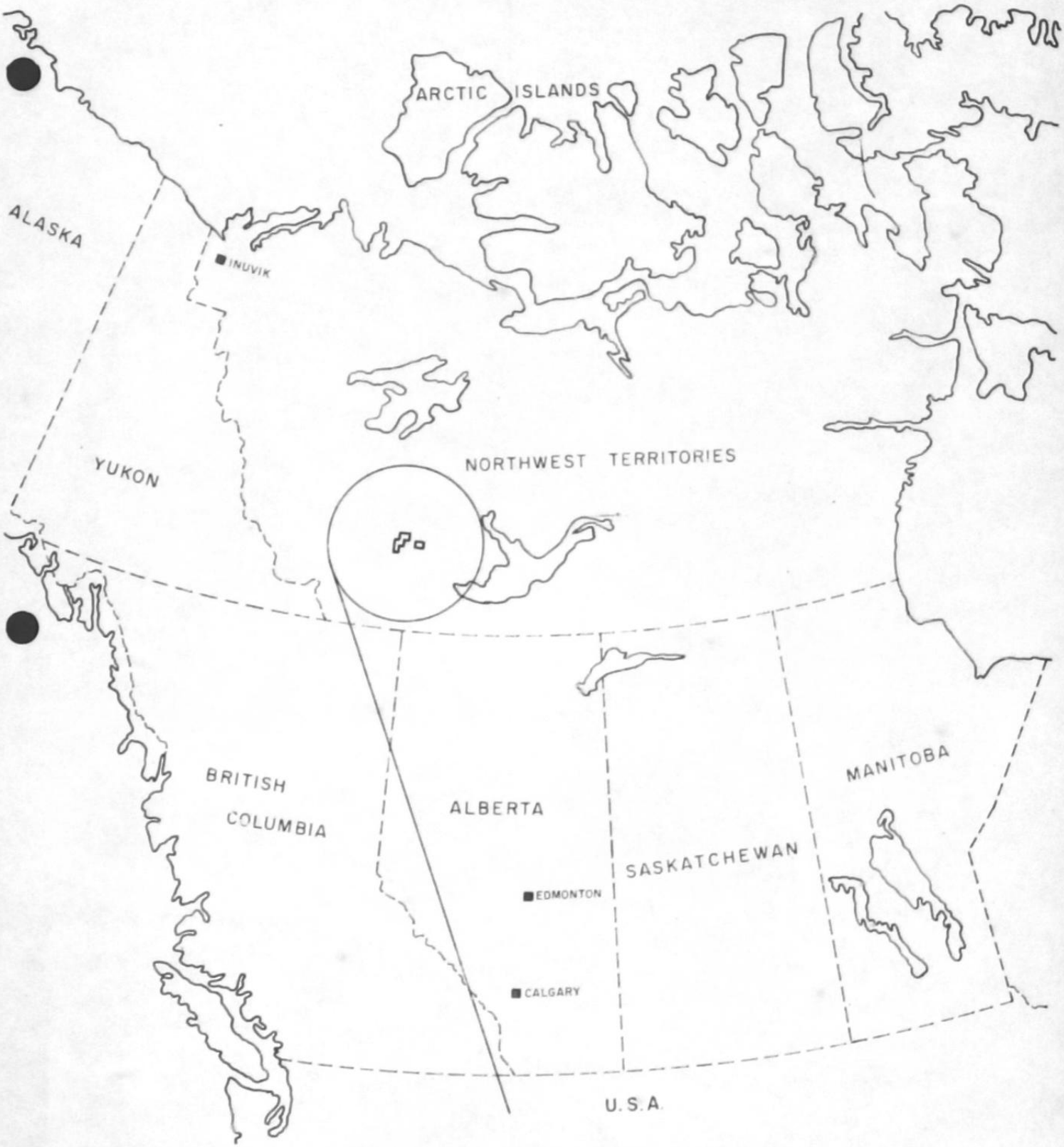
Maps in the attached folder

Author: T. Webb

W. J. McCormack - 1970
District Geophysicist

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
NOV 3 1970
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

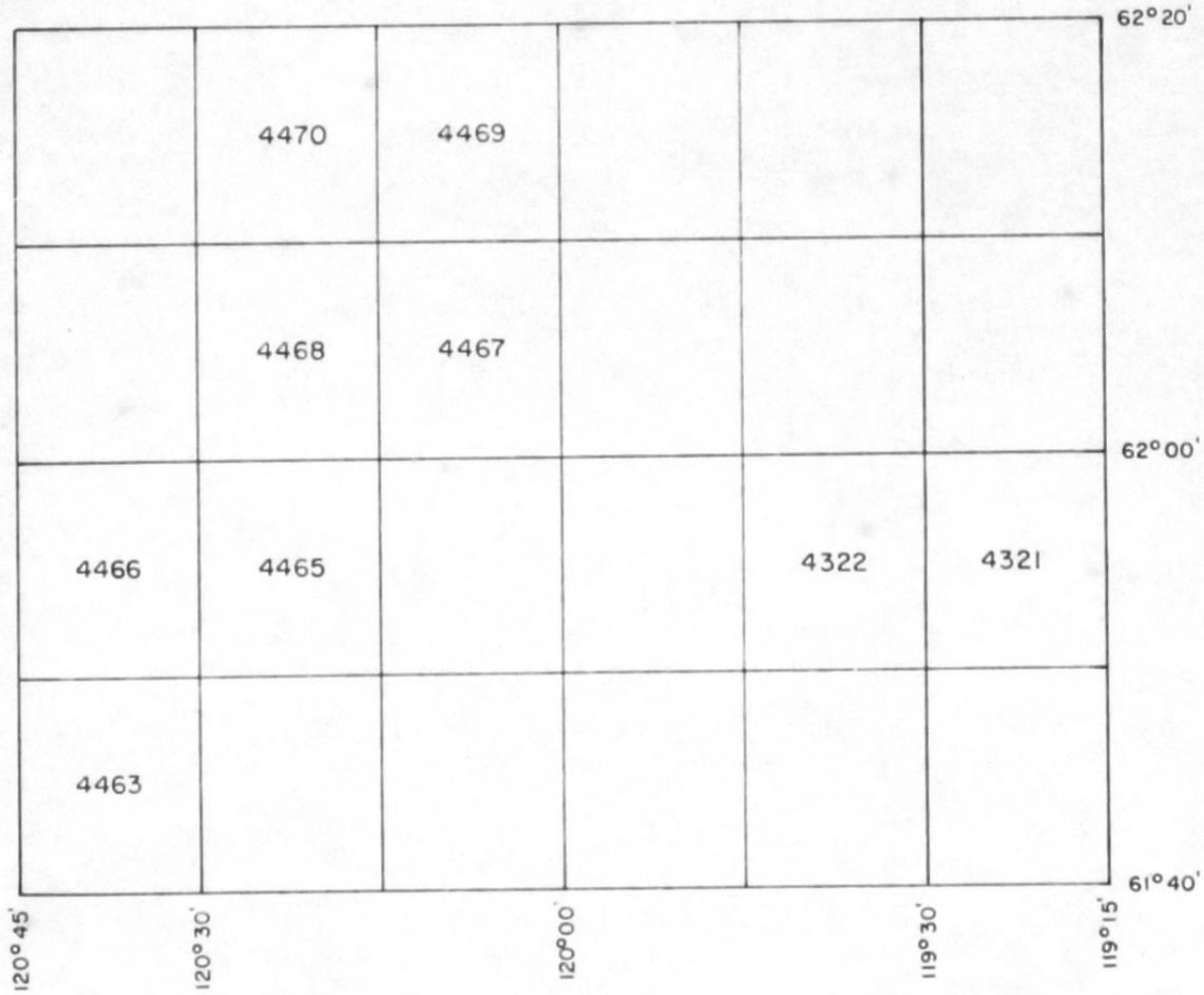
Contractor:	Glove Universal Sciences Canada Limited
Government Project:	45-6-4-69-4
Group:	388
Area:	Mustard Lake-Horn Plateau, N.W.T.
Maps:	Green Island Area - Time structure on top of Nahanni
	Green Island Area - S.P. location and surface elevation
	Horn Plateau Area - Time structure on top of Nahanni
	Horn Plateau Area - S.P. location and surface elevation



MUSTARD LAKE - HORN PLATEAU PERMITS

0 250 500 750 1000
MILES

MUSTARD LAKE - HORN PLATEAU
PERMITS
GROUP 388



GEOPHYSICAL DATA FOR SEISMIC SURVEY

LOCATION

Area and Province	Mustard Lake-Horn Plateau, N.W.T.
Longitude and Latitude	120°W 62°N
Permit Numbers and Government Project Number	45-6-4-69-4

TYPE OF SURVEY

Analog or Digital	Digital (Binary Gain)
Type of Source	Dynamite

FIELD RECORDING EQUIPMENT

Seismometer Model	Mark Products L-10
Seismometer Frequency	14 cycle
Seismometer Damping	240
Seismometer Base	Flat winter base
Amplifier Model	T.I. D.F.S.-3
Camera Model	S.I.E. ERC-6
Type of Magnetic Tape	1 inch 21 track
Digital System Model and Number	D.F.S.-3 184 Ser.
Land Survey Instrument and Method	Wild T-16, Zeiss 6" Transit
Cables	Portable 900' sections 220' interval

FIELD PROCEDURE AND OPERATIONS

Refraction Inline or Broadside	Inline
Reflection % of Subsurface Coverage	600%

Spread Configuration

Number Groups Recorded	24
Group Interval	220
Number Seismometers/Group	8
Seismometer Interval	20
Array Pattern	Inline

Source Configuration

Number of Holes and Depth	1 @ 40 feet
Spacing	Nil
Pattern	Nil
Inline or Offset to Spread	Inline
Charge Size and Type	5 Lbs. 2½ x 5 60%

Transportation

Type of Vehicles	Wheeled
Fixed Wing Aircraft	Beaver
Helicopter Support	

Terrain Conditions

General Terrain Description	Flat to rolling muskeg

RECORDING FACTORS

Monitor Record

Filter Read after write	18/18 - 124
AVC	Binary Gain (Fast)
Gain	90 D.B.

Magnetic Tape

Filter	18/18 - 124
AVC	Binary Gain (Fast)
Gain	90 D.B.

Sample rate 2MS

Field Playbacks	
Filter	Nil
AVC	Nil
Gain	Nil
Mixing	Nil

PERSONNEL

Field	J. Curzon - Supervisor G. Mueller - Party Manager
Office	G. Hood - Ass't. Party Manager
Titleholders	J. Fraser - Head Surveyor
Individual Responsibility	R. Lubeseder - Surveyor
Contractors	D. Janveau - Senior Observer
	L. Young - Observer
	A. Skjerven - Shooter
	Smith Brothers
	Siesform Drilling
	Double R Drilling
	Campbell Contractors
	Caribou Construction

OFFICE TECHNIQUES

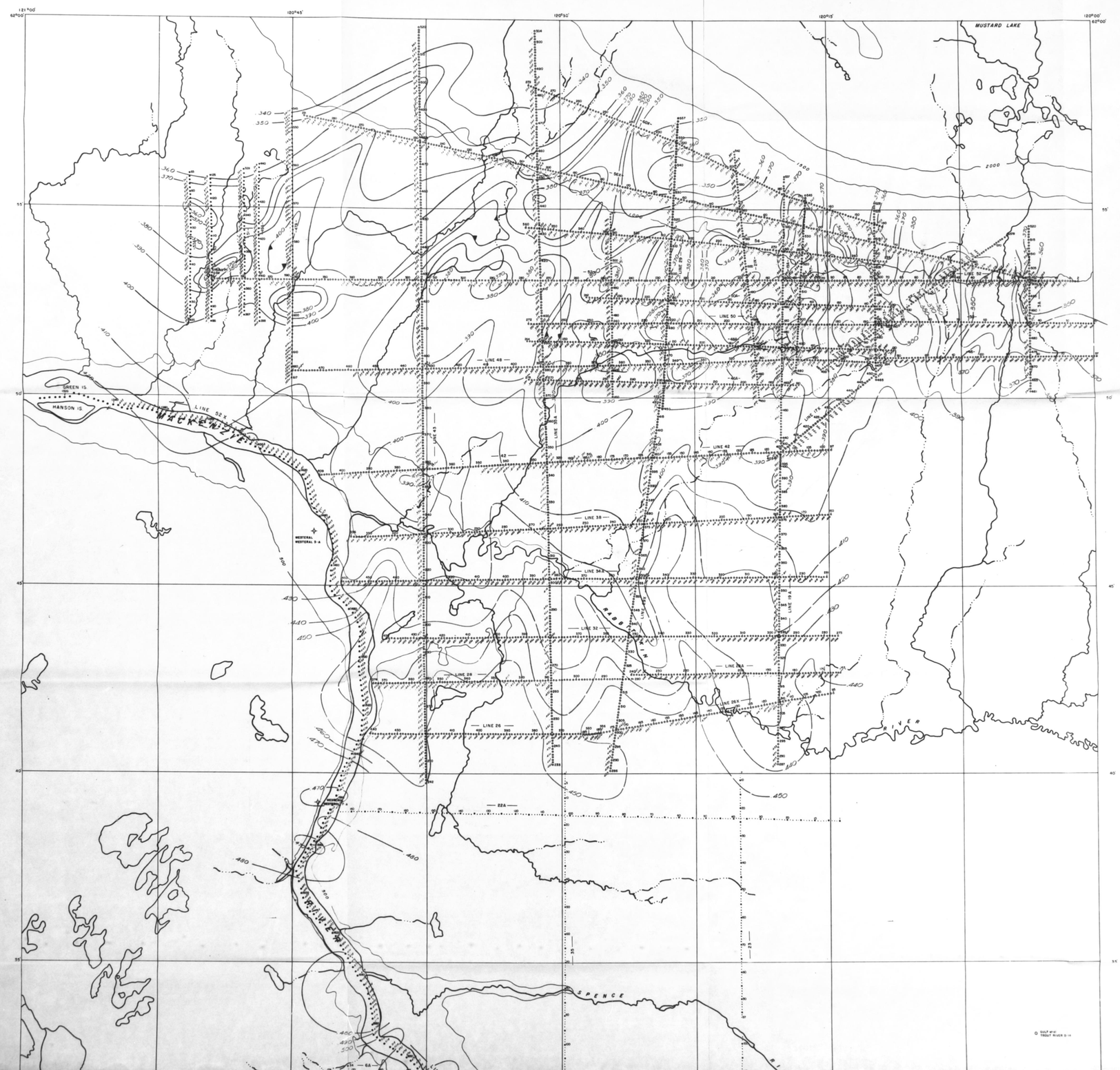
Datum Computation	N/A
Weathering Sections	N/A

Record Sections	N/A
Type of Display	VA/WT
Maps	Attached Folder

STATISTICS SUMMARY

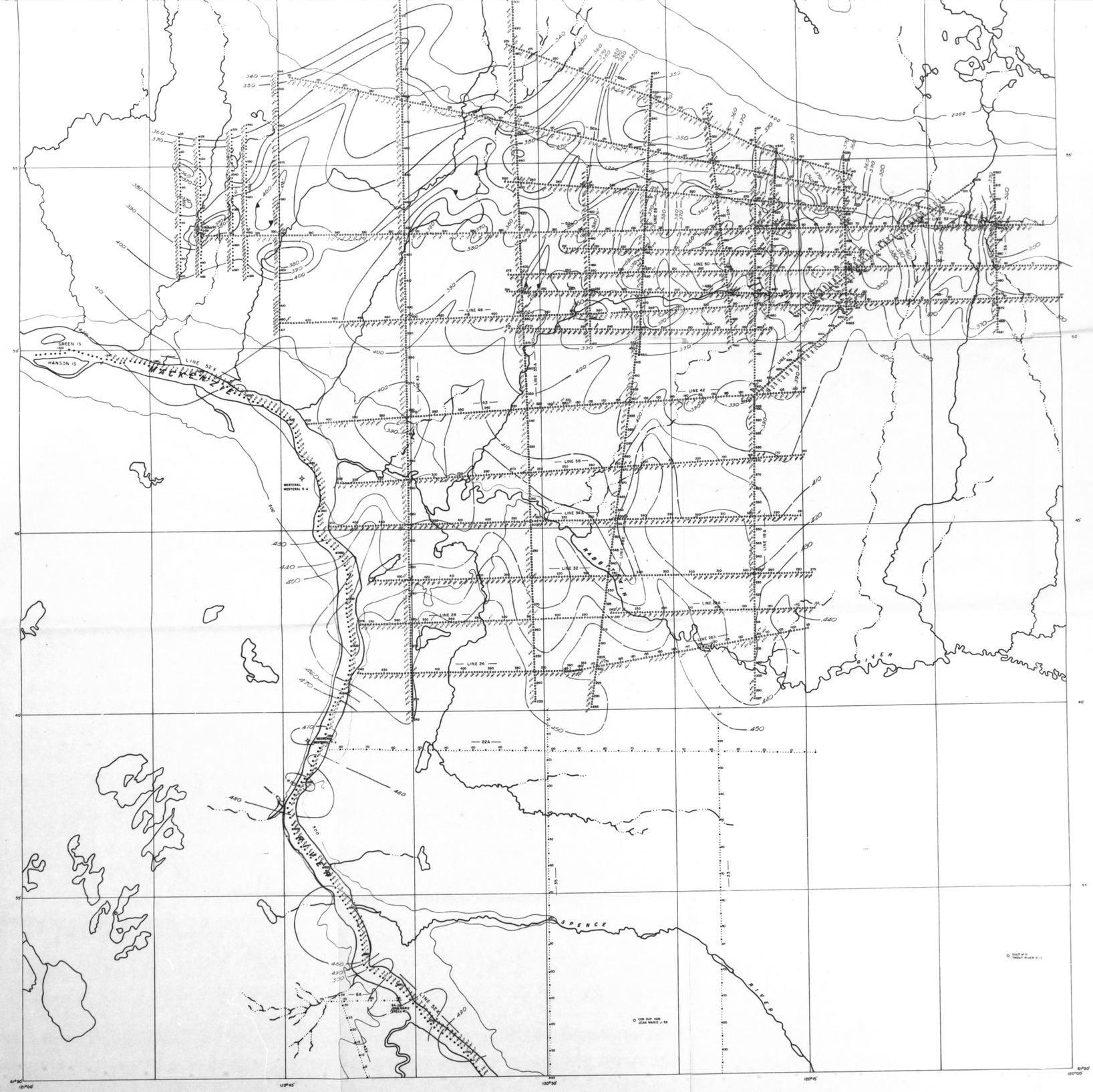
Number of Working Days	25
Number of Profiles	
Reflection	1,415
Refraction	140
Total Production	1,555
Miles of Surface Coverage	116.00
Miles of Subsurface Coverage	116.00
Number of Shot Holes Drilled	1,555
Total Footage Drilled	62,200

TRANSMITTAL OF RECORDED DATA



1 of 2

NOTE: FOR INDEX MAP SEE F-6797E-1



NOTE FOR INDEX MAP SEE F-6797E-1

REVISIONS	
WELLS DEC 67	
WELLS APRIL 68	

CHEVRON STANDARD LIMITED

95-H-NE

GREEN ISLAND AREA

TIME SEISMIC CONTOURS ON TOP OF NAHANNI

Ex=1000
Vt=10,000 ft./sec

T. WEBB

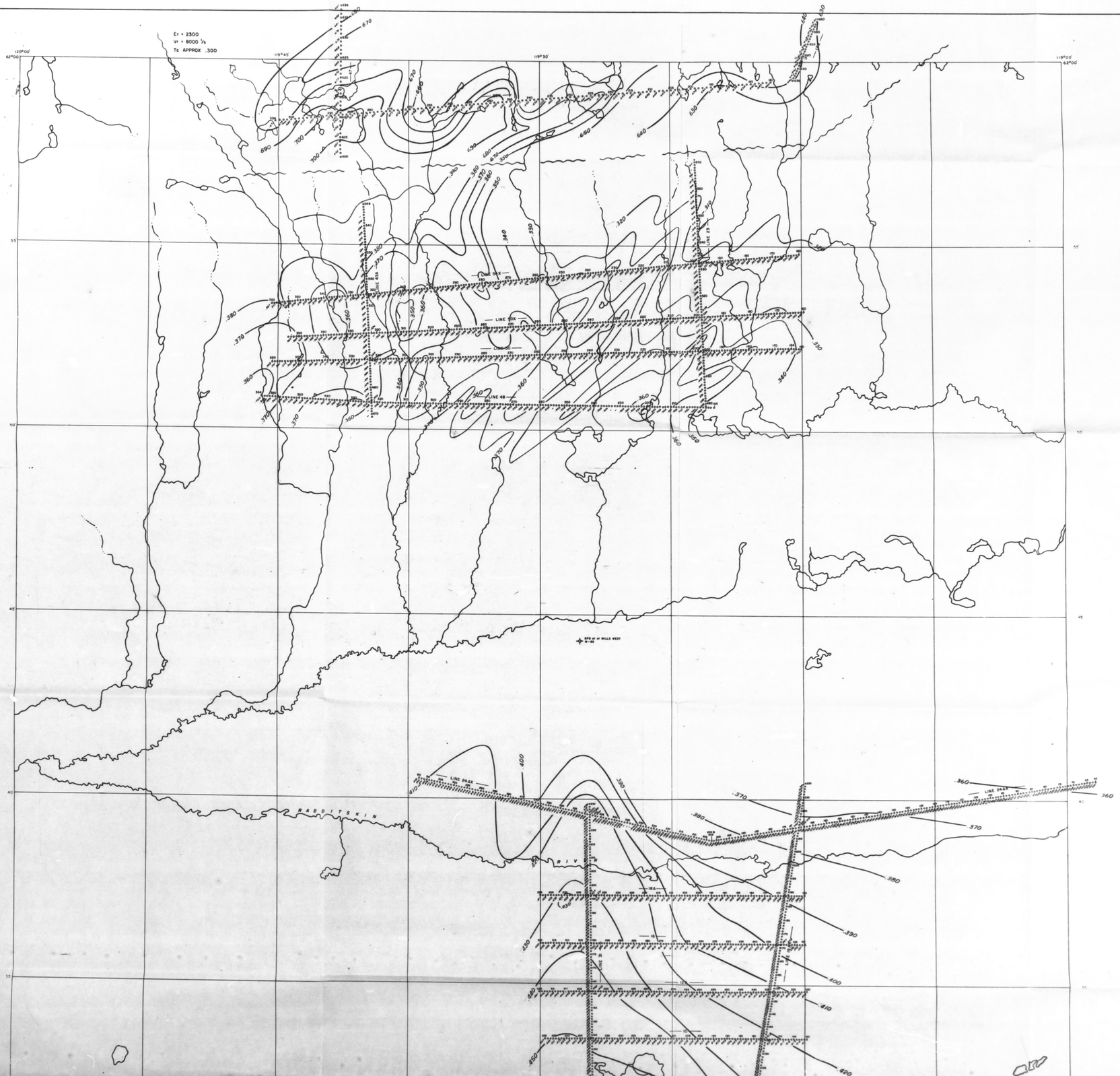
JAN. 1970

SCALE	DATE	DRAWN	
1 INCH 1 MILE	JUNE, 1965	DEW	F-9876-9

SURVEYING FILE NO.

95-H-9 SEISMIC

2 of 2


Er = 2300
Vr = 8000 ft/s
Tc APPROX .300
120°00'
62°00'
119°45'
119°30'
119°00'
62°00'
55
50
45
40
35
LINE 24
LINE 23
LINE 22
LINE 21
LINE 20
LINE 19
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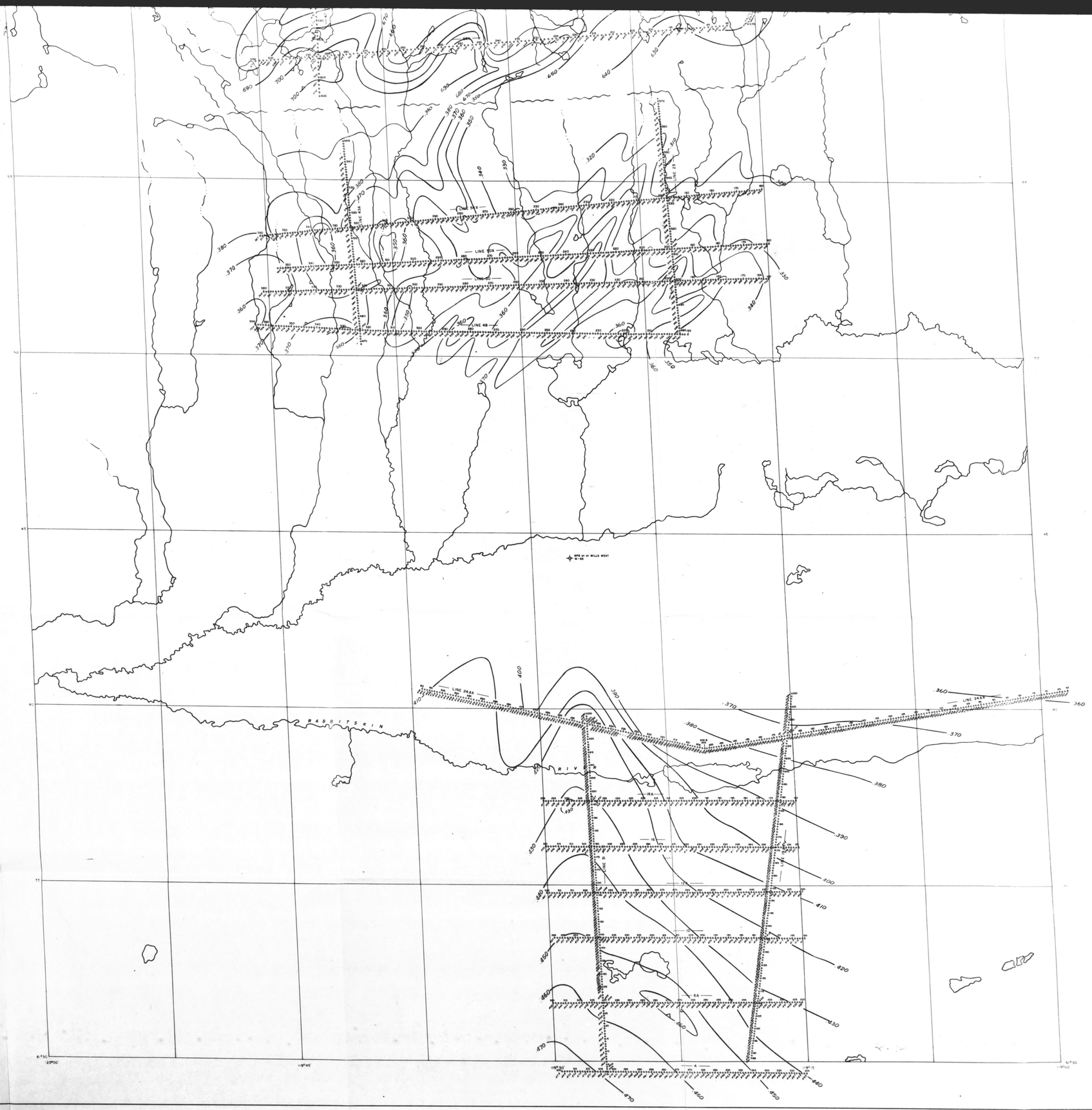
LINE 8
LINE 7
LINE 6
LINE 5
LINE



NOTE: FOR INDEX MAP SEE F-6797E-1

REVISIONS	
WELLS SEC 87	
WELLS MAR 86	
CONT JUNE 72	

CHEVRON STANDARD LIMITED

85-E-N.W.

HORN PLATEAU AREA

TIME SEISMIC CONTOURS ON

TOP OF NAHANNI

E = 1000 V = 10,000 Tec V = Computed

By J.R. MUIR

C.I. = 0.01 sec Oct 1969

SCALE	DATE	DRAWN	
1 INCH = 1 MILE	JUNE, 1969	D.E.W.	F-9877-8

SEISMIC

2 of 2