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Ottawa

SEISMIC REPORT
Willowlake River, N. W. T.

HUSKY OIL LTD.

Sept. 1971

SEISMIC REPORT



Willowlake River, N. W. T.

For work done
From January to March 1969
For Husky Oil Ltd.

September, 1971

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INTRODUCTION

This report outlines the seismic survey conducted for Husky Oil Ltd. by Teledyne Exploration Ltd., Party No. 619, from January 1969 to March 1969 in the Willowlake River Area, North West Territories. This 283-mile survey is bounded by 62°10 N to 63°00 N Latitude and 120°30 W to 127°00 W Longitude.

FIELD OPERATIONS

<u>Drills commenced work:</u>	Jan. 7, 1969
<u>Recorders commenced:</u>	Jan. 11, 1969
<u>Total Miles shot:</u>	283 miles
<u>Total Profiles obtained:</u>	3,398
<u>Total Footage Drilled:</u>	129,300 ft.
<u>Total Dynamite used:</u>	7,850 lbs.
<u>Drilling and Recording Completed:</u>	March 28, 1969

FIELD PERSONNEL AND EQUIPMENT

1. Seismic Crew

Three-man interpretive staff

Party Manager: Pick-up truck

Observer: Truck mounted S.D.S. 1010

Junior Observer: Binary Gain Recording System

Cable Truck Driver: Reel Truck

Shooter: Truck mounted shooting unit

Surveyor: Pick-up truck

Six helpers

Total: 15 men, 5 units.

2. Drills

2 Auger drills - periodically double shifted

2 Air drills - periodically double shifted

Extra Water truck

Total: 9-13 men

3. Camp

Cook

Helper

Mechanic

Total: 3 men

FIELD PARAMETERS

<u>Instrument type:</u>	S D S 1010 Binary Gain, 9 track
<u>Filter setting:</u>	Lo 25, Hi 125 - Slope 18 db/octave
<u>Spread length:</u>	1,320 ft. split
<u>Group interval:</u>	110 ft.
<u>Shotpoint spacing:</u>	440 ft.
<u>Geophone type:</u>	Mark Products 14 cps
<u>No. of Geophone/group:</u>	9
<u>Geophone spacing:</u>	15 ft.
<u>Average hole depth:</u>	40 ft.
<u>Average charge size:</u>	2½ lbs.

PROCESSING

The data preparation and resulting 300% stacked sections were processed by C.M.R.

MAPS

The maps submitted with this report include:

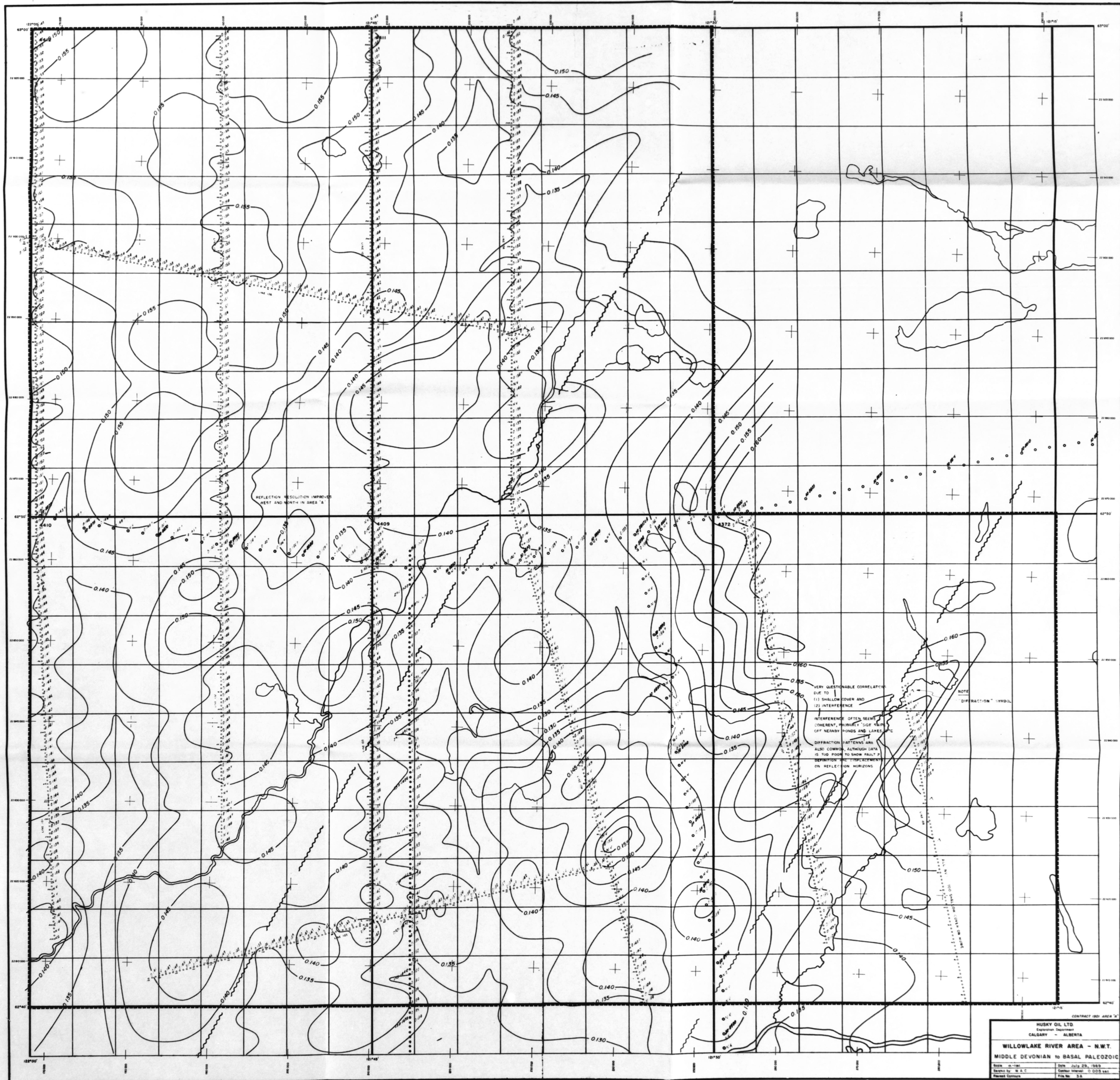
1. Middle Devonian Structure (Time)
2. Middle Devonian - Basal Paleozoic (Isochron)
3. Shotpoint Elevation



W. L. Walker

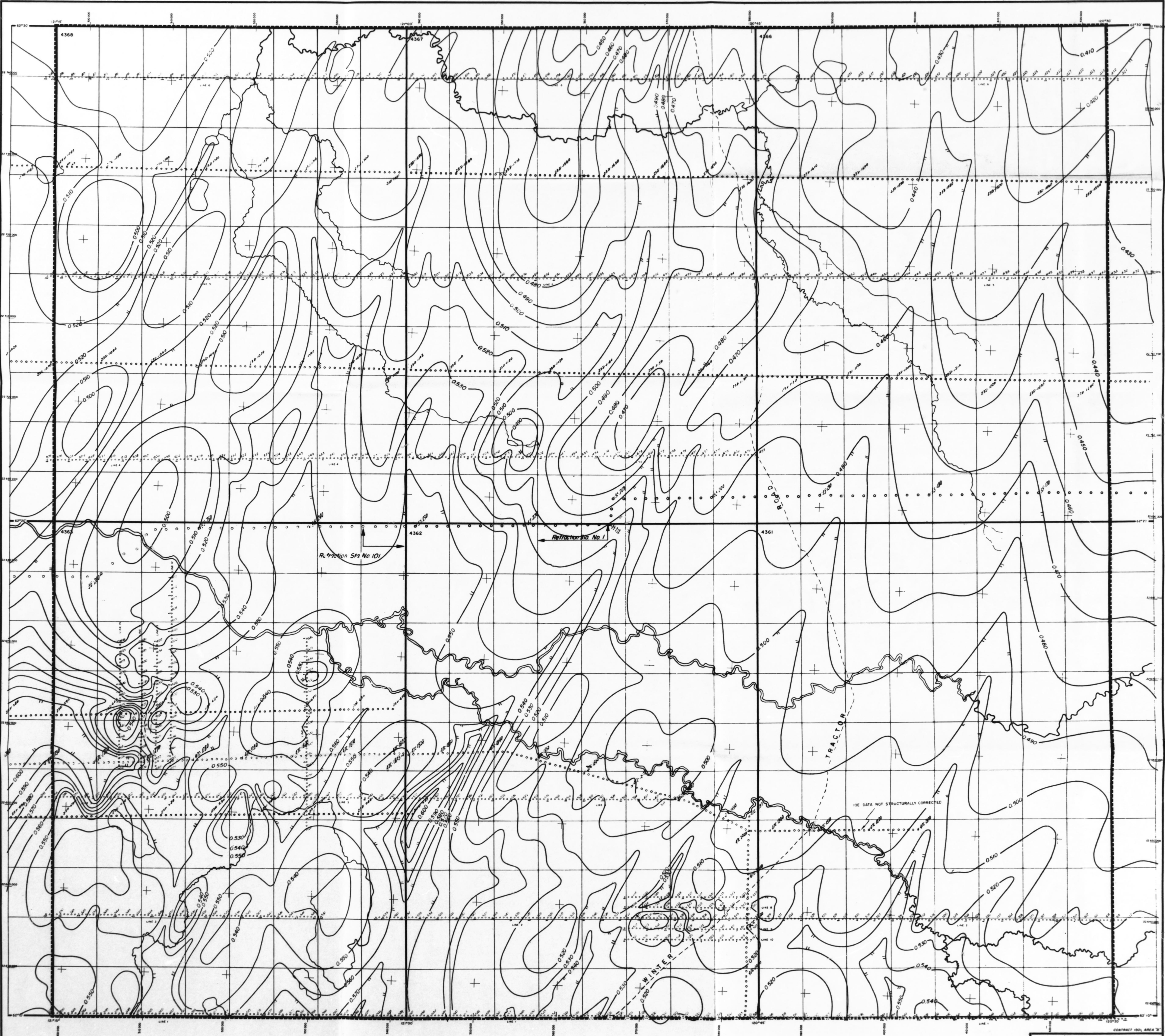
for

W. A. Craig, Chief Geophysicist





CONTRACT 1901, AREA "B"

TERRITORIAL PLANE COORDINATE GRID
ZONE 10

HUSKY OIL LTD Exploration Department CALGARY - ALBERTA	
WILLOWLAKE RIVER AREA - N.W.T. MIDDLE DEVONIAN STRUCTURE	
Scale 1:62,500 Source Ref. W.D.C. Revised Contour	Date July 29, 1965 Contour Interval 0.010 Seconds File No. 10

