REFLECTION SEISMOGRAPH SURVEY

TRAVNOR LAKE, N. W. T.

JANUARY 2, 1969 - FEBRUARY 2, 1969

PERMIT NO'S. 5020, 5021, 5022, 4575

Pacific Pete.

667-6-4-9.

Ottawa

REPORT ON THE

REFLECTION SEISMOGRAPH SURVEY

IN THE

TRAINOR LAKE AREA OF N. W. T.

CONDUCTED FOR

PACIFIC PETROLEUMS LTD.

BY

SEISMOTECH 64 LTD.

FROM

JANUARY 2, 1969 TO FEBRUARY 2, 1969

ON

PERMIT NO'S. 3020, 3021, 3022, 4375

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
JUL 10 1970
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

DATE: JUNE 30, 1970

BY: S. OCZKOWSKI

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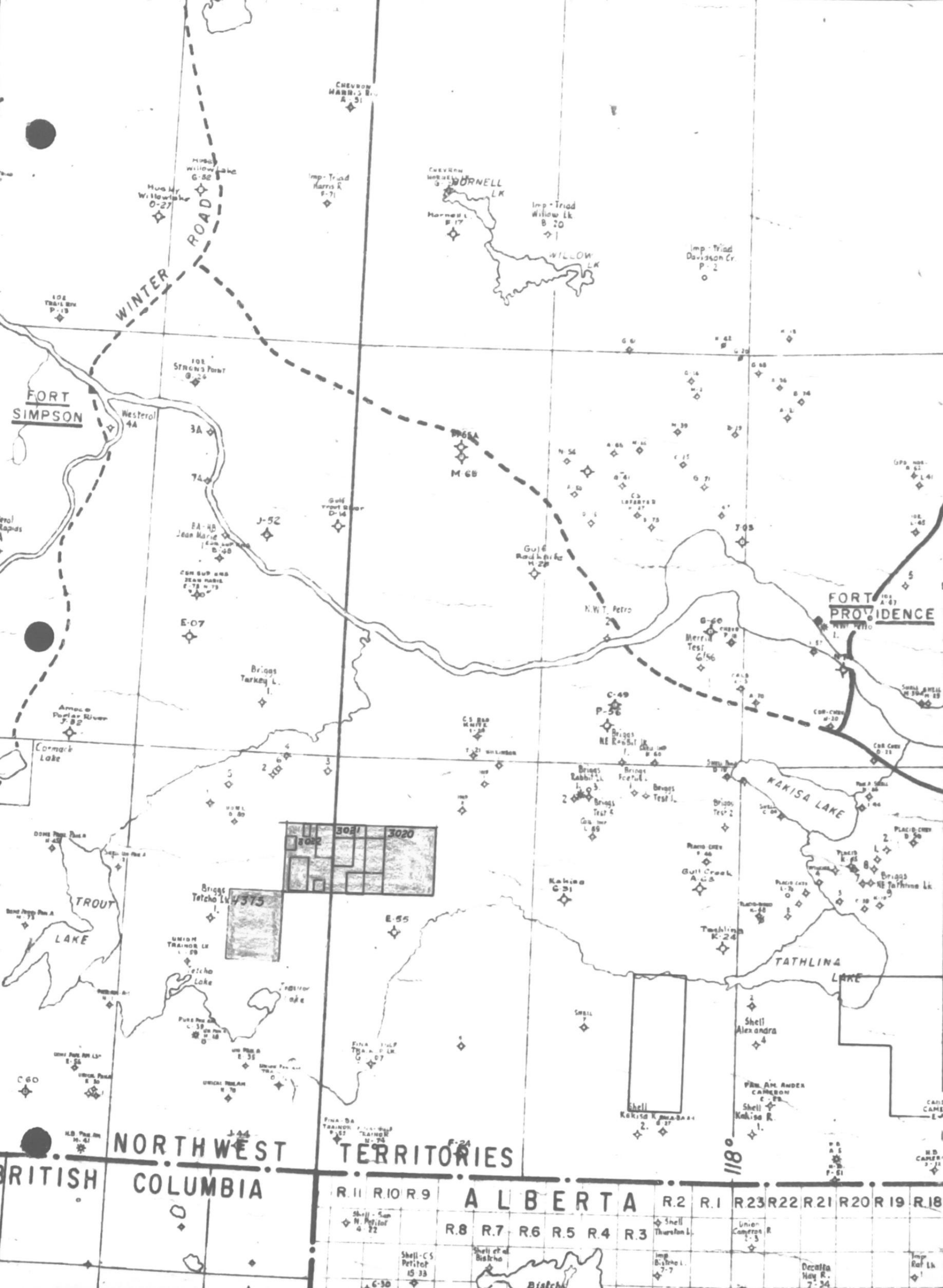

WINTER ROAD
FORT SIMPSON
FORT PROVIDENCE
HORNELL LK
WILLOW LK
KAKISA LAKE
TATHLINA LAKE
TROUT LAKE
Cormack Lake
Tetcho Lake
Kakisa R.
Shell Alexandra
Shell Kakisa R.
Shell Kakisa K
Gull Creek
Tathlina
Kakisa
Briggs Tetcho Lk
Briggs NE Tathlina Lk
Amoco Poplar River
Gulf Trout River
Gulf Rockybrake
N.W.T. Petro
Merrill Test
Briggs Rabbit Lk
Briggs Test 1
Briggs Test 2
Briggs Test 4
Briggs NE Rabbit Lk
Briggs Turkey L.
Jean Marie
Westerol 44
Strong's Point
Trail Riv
Willowlake
Harris R.
Davidson Cr.
Imp-Triad Willow Lk
Chevron Harris R.
3021
3020
3022
3375
NORTHWEST TERRITORIES
BRITISH COLUMBIA
ALBERTA
118°
R.11 R.10 R.9 R.8 R.7 R.6 R.5 R.4 R.3 R.2 R.1 R.23 R.22 R.21 R.20 R.19 R.18

INTRODUCTION

A reflection seismograph survey was conducted in the Trainor Lake Area on Permits No's. 3020, 3021, 3022 and 4375 between January 2 and February 2, 1969. A Mobile Trailer camp was established within the Permit Area and access was from Fort Nelson. The results of this survey are illustrated on maps enclosed in the attached folder.

STATISTICAL DATA

Mobilization Data:	'Cats' on access January 2, 1969
Recording Commenced:	January 15, 1969
Recording completed:	January 31, 1969
Last Day on Project:	February 2, 1969
No. of Miles Shot:	49.8
No. of Shots:	292
Average Miles/Day:	3.6
No. of Days Worked:	15
No. of Weather Days:	3
Instrumental Type:	S.I.E. PT-800
Vehicle Type No.:	Truck mounted
No. of Drill Shifts:	11
Party Manager:	D. W. Simpson
No. of Personnel on Crew:	45
Surveying Instrument:	K & E 'Doric' transit

Survey Control:	From northeast corner of 32-132-14-W6M on the 34th base line.
Radio Liason:	Yes
C.D.P. Percent:	400%
Charge Size:	2 holes at 5 lbs.; 3 holes at 5 lbs.
Distance between Flags:	300 ft.
Spread Layout:	3600 - 0 - 3600
Hole Depth:	45 ft.
Sections Prepared:	Datum - 1100 ft.
	N.S.V. - 7000 1/5
	Filter - 15-20/55-60
	Decon - Nil
Processed By:	Pacific Petroleums Ltd.

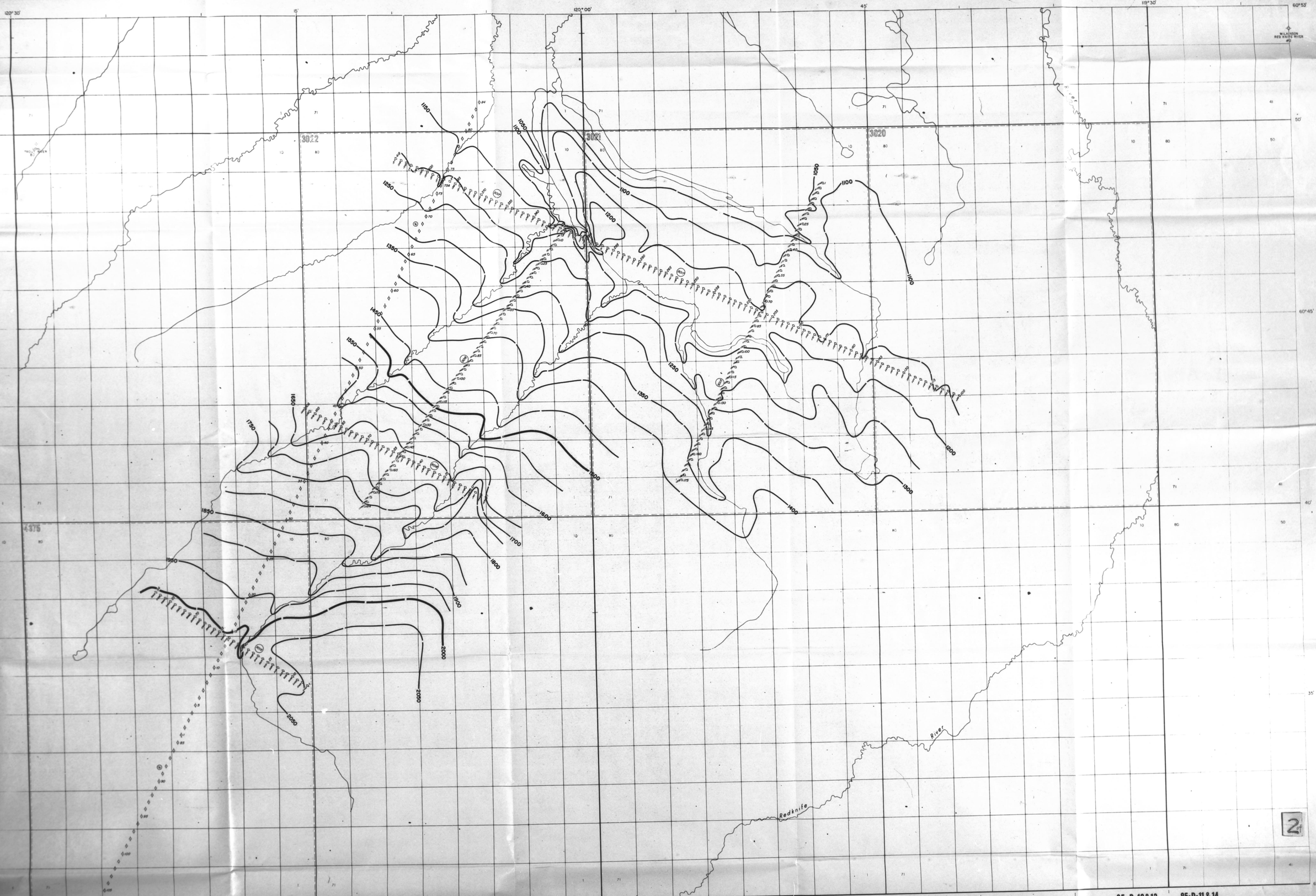
INTERPRETATION AND SUMMARY

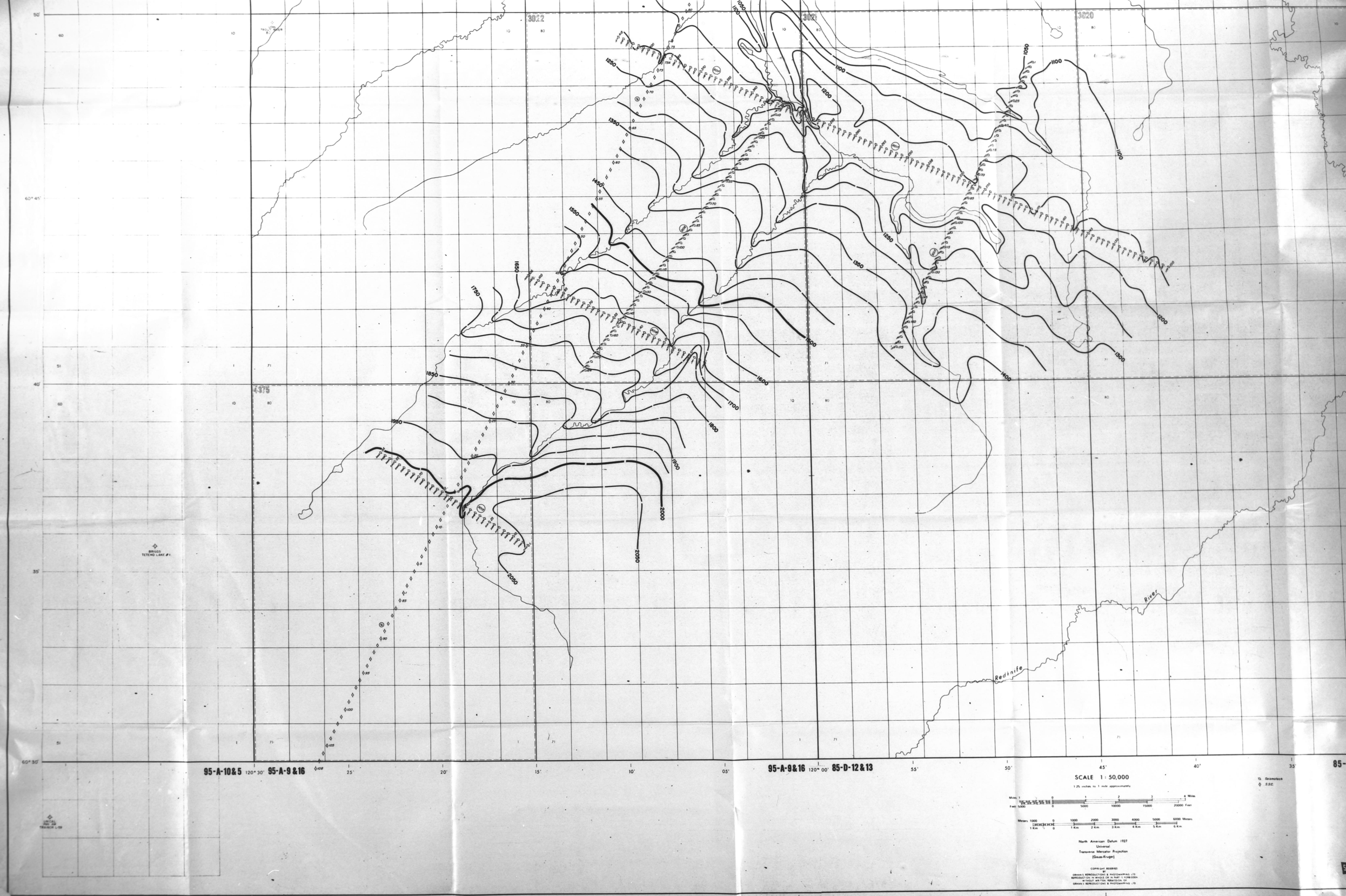
Structural record sections were prepared for all lines shot. The Utahn and Slave Point horizons were identified. Some areas of interest are illustrated on both the Slave Point structure map and on the Utahn to Slave Point isochron map.

The enclosed maps outline the areas of interest in the Trainor Lake Area.

S. Oczkowski
Manager Geophysical Exploration

60° 55'
120° 30'
15'
120° 00'
45'
50'
60° 45'
40'
35'
60° 30'
3022
3021
3020
4375
1150
1050
1100
1250
1350
1400
1550
1650
1750
1850
1950
2000
2050
1200
1300
1400
1500
1600
1700
1800
1900
2000
2050
BRIGGS
TETCHO LAKE #1
Redknife
River
1 of
95-A-10&5
95-A-9&16
95-A-9&16
85-D-12&13
85-D-1
SCALE 1:50,000


120°30'
15'
120°00'
45'
119°30'
60°53'
50'
60°45'
40'
35'
60°30'
3022
3021
3020
4375
WILKINSON
RED KNIFE RIVER
TROUT RIVER
1150
1050
1100
1250
1200
1350
1400
1450
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
Redknife
River
2


3022
3021
3020
4375
1050
1100
1200
1250
1350
1400
1450
1550
1650
1700
1800
1850
1900
2000
2050
Redknife
River
BRIGGS
TETCHO LAKE #1
95-A-10&5
120° 30'
95-A-9&16
95-A-9&16
120° 00'
85-D-12&13
60° 50'
60° 45'
40'
35'
30'
25'
20'
15'
10'
05'
55'
50'
45'
40'
35'
SCALE 1 : 50,000
1.25 inches to 1 mile approximately
Miles 1 0 1 2 3 4 Miles
Feet 5000 0 5000 10000 15000 20000 Feet
Meters 1000 0 1000 2000 3000 4000 5000 6000 Meters
1 Km 0 1 Km 2 Km 3 Km 4 Km 5 Km 6 Km
North American Datum 1927
Universal
Transverse Mercator Projection
(Gauss-Kruger)
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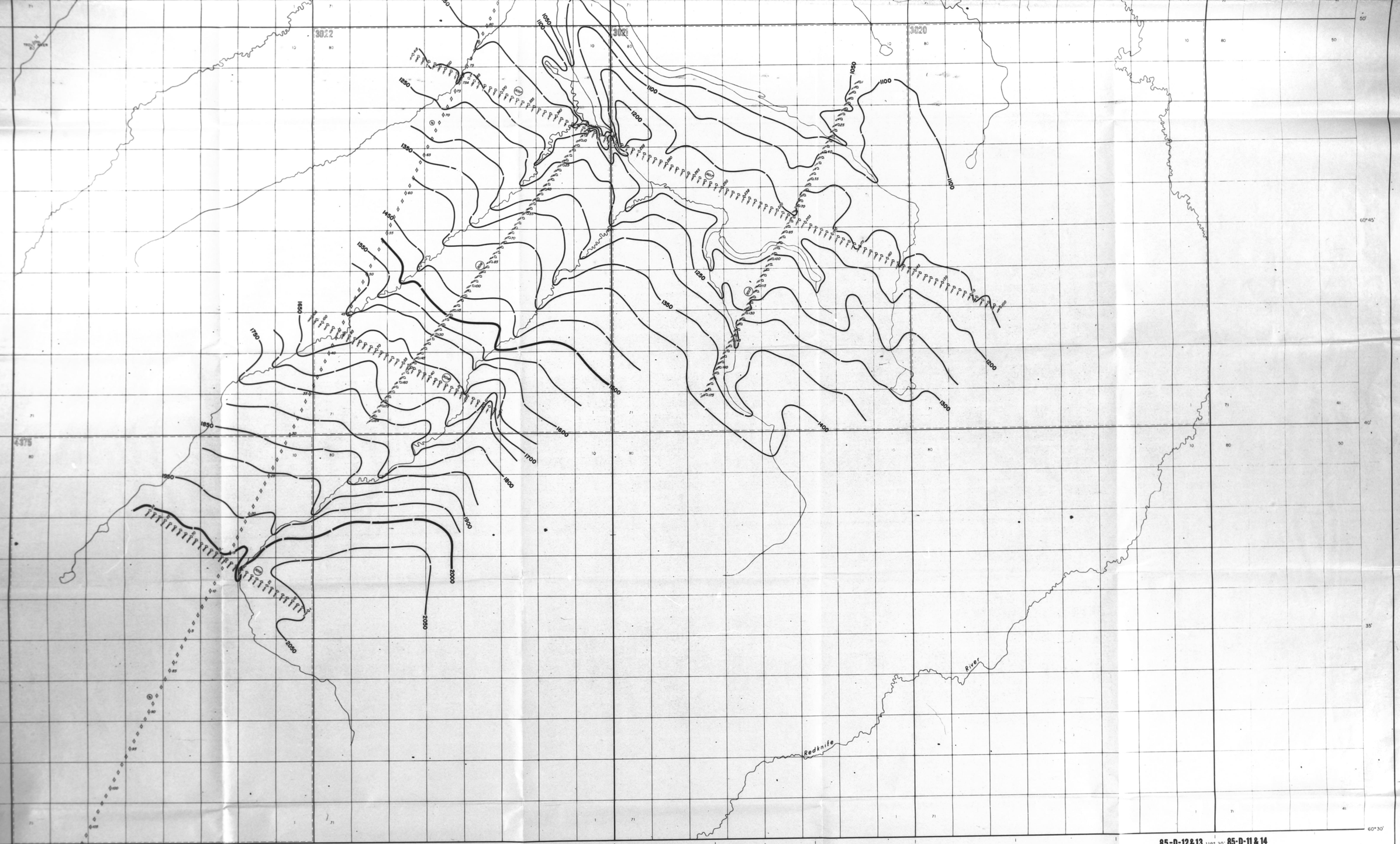
Seismograph
S.S.C.



SCALE 1 : 50,000

1.25 inches to 1 mile approximately

Miles: 1 0 1 2 3 4 Miles

Feet: 5000 0 5000 10000 15000 20000 Feet

Meters: 1000 0 1000 2000 3000 4000 5000 6000 Meters

1 Km 0 1 Km 2 Km 3 Km 4 Km 5 Km 6 Km

North American Datum 1927
Universal
Transverse Mercator Projection
(Gauss-Kruger)

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Q. Seismotrack
◊ S.S.C.

PACIFIC 66

PACIFIC PETROLEUMS LTD.
CALGARY, ALBERTA

TRAINOR LAKE

SURFACE TOPOGRAPHY

CONTOUR INTERVAL: 50 ft.	DATE: MARCH 17, 1969
DATUM ELEVATION:	ELEV. CORR. VEL.:
INTERPRETED BY:	

SEISMOTECH

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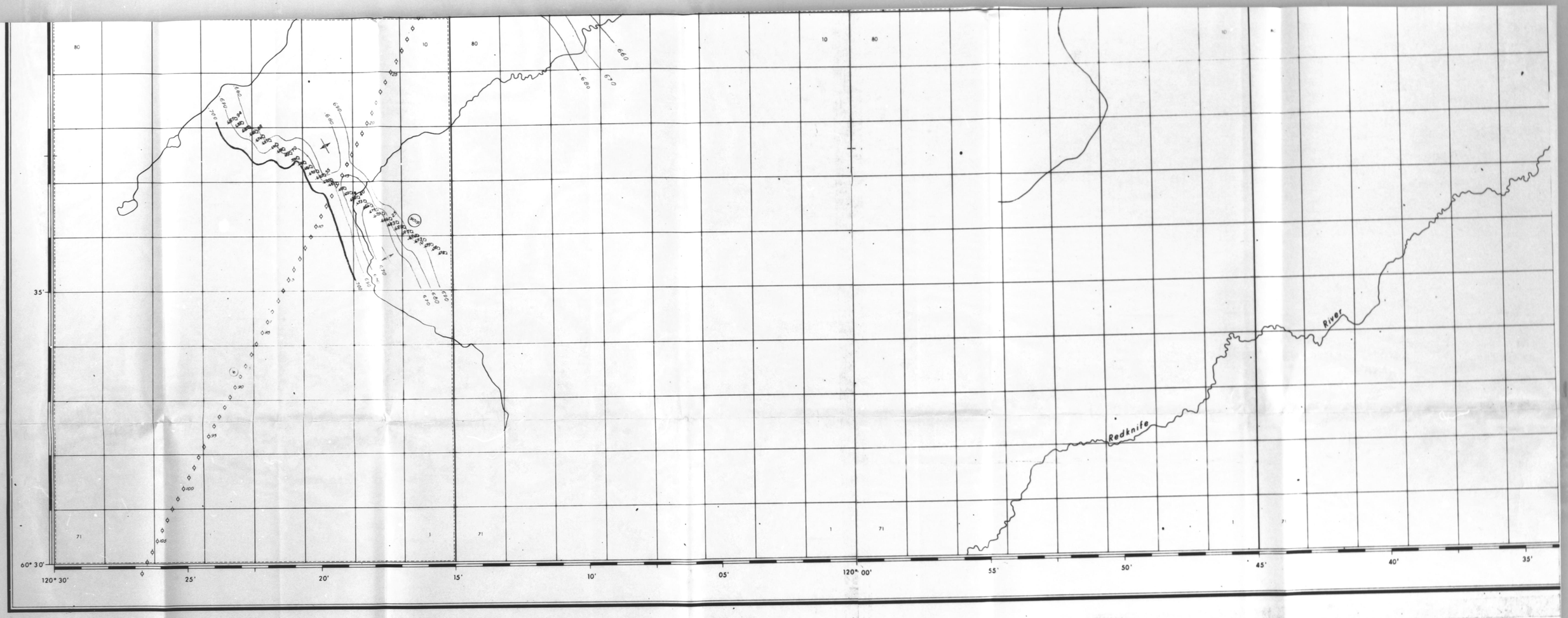
Seismic Lat Sec
TRAINOR LAKE
Panel 5



TROUT RIVER EAST

NORTHWEST TERRITORIES

SCALE 1 : 50,000

1.25 inches to 1 mile approximately

Miles 1 — 0 — 1 — 2 — 3 — 4 Miles
Feet 5000 — 0 — 5000 — 10000 — 15000 — 20000 Feet

Meters 1000 — 0 — 1000 — 2000 — 3000 — 4000 — 5000 — 6000 Meters
1 Km — 0 — 1 Km — 2 Km — 3 Km — 4 Km — 5 Km — 6 Km

North American Datum 1927
Universal
Transverse Mercator Projection

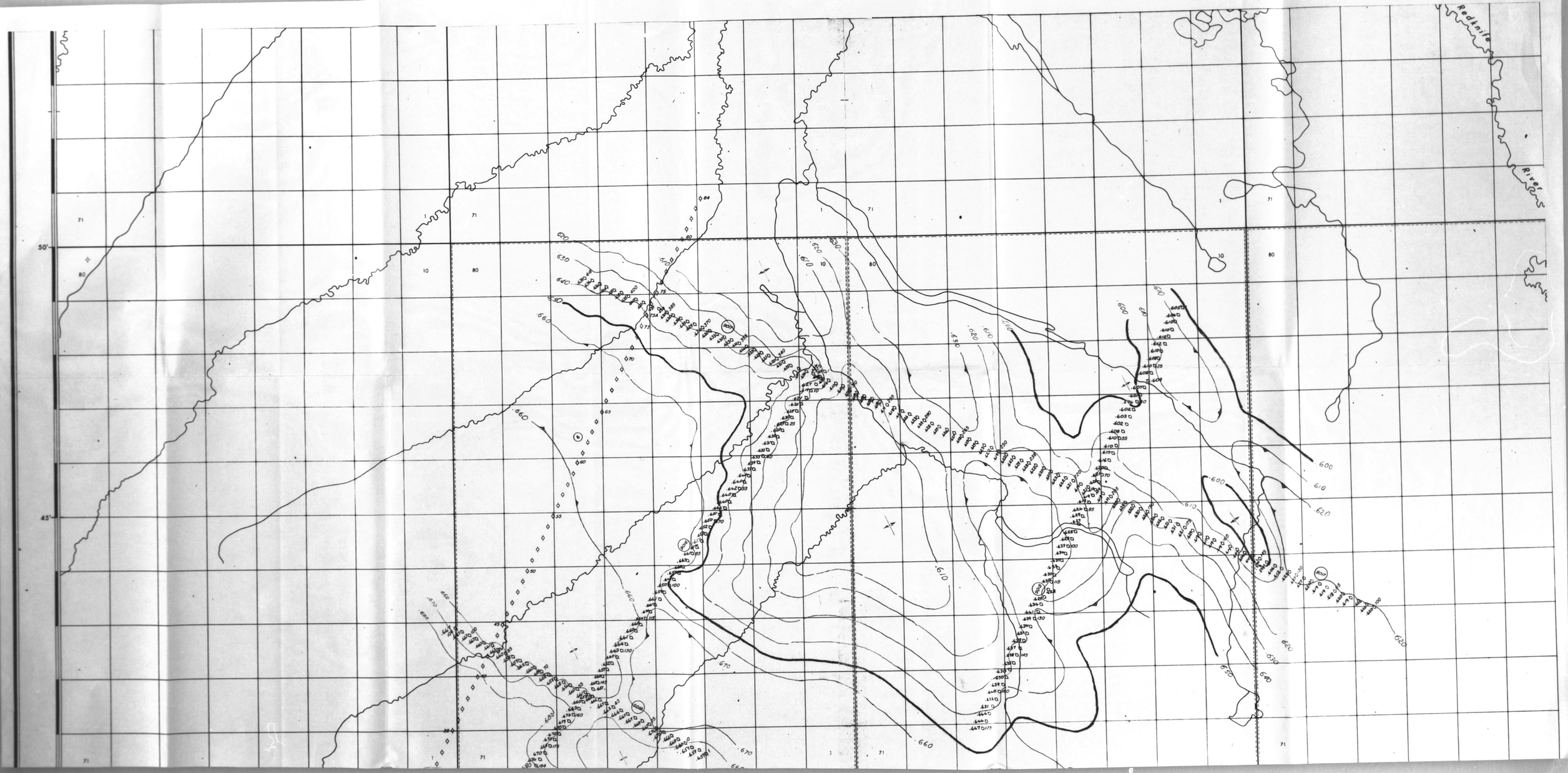
Seismotech
SSC

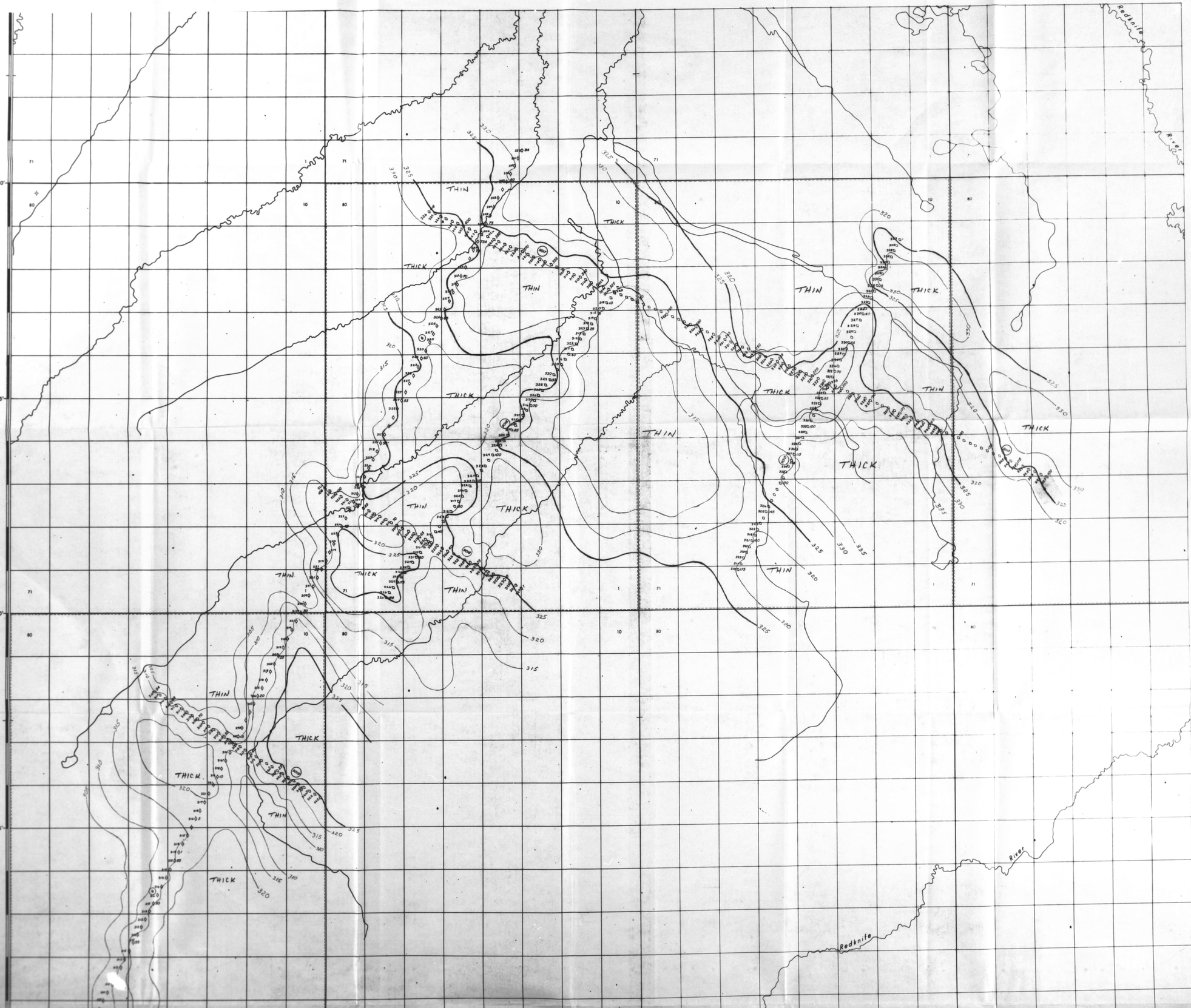
PACIFIC 66 — PACIFIC PETROLEUMS LTD
CALGARY — ALBERTA

TRAINOR LAKE

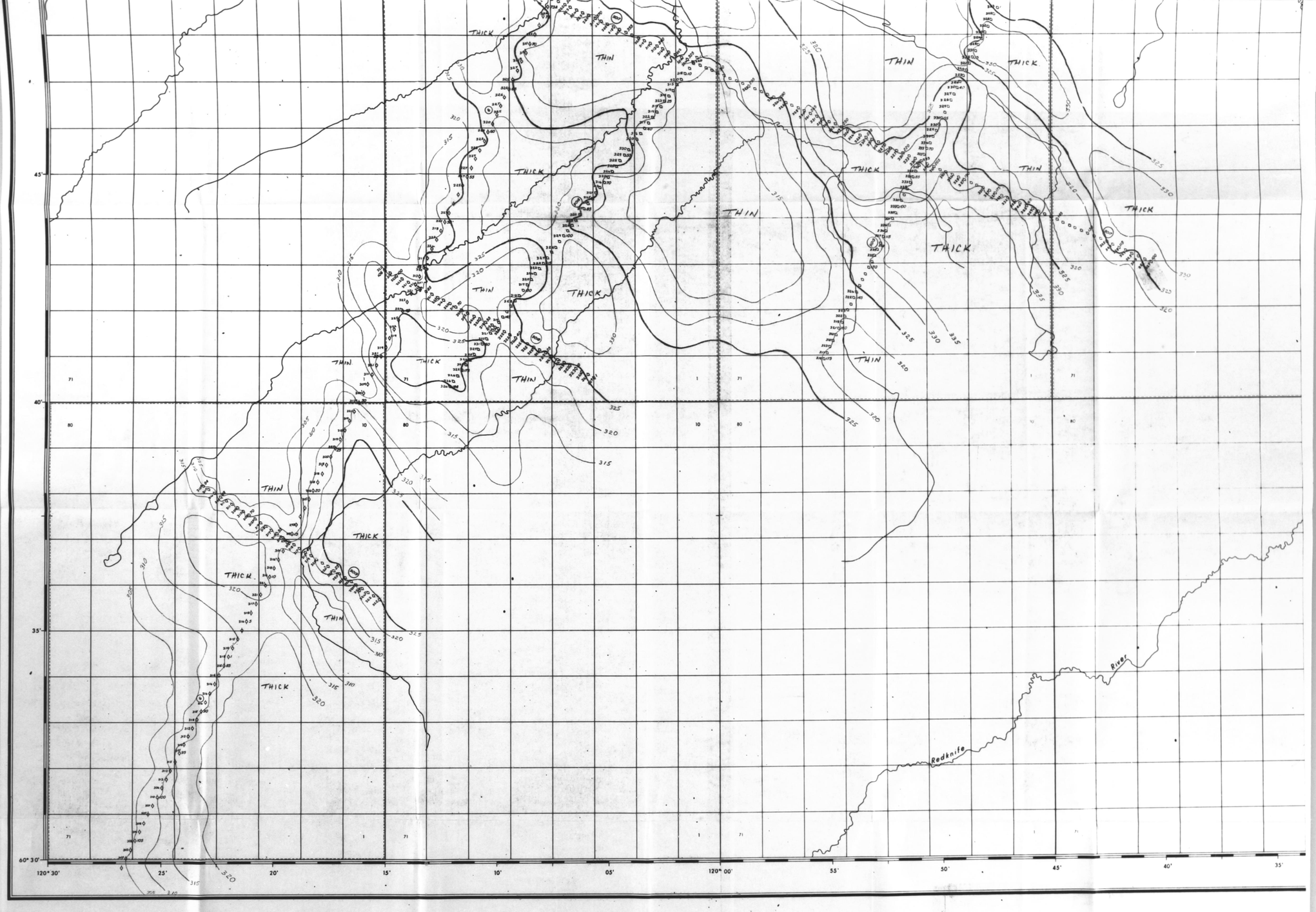
SLAVE POINT

CONTOUR INTERVAL 20.0' SRD. — DATE APRIL 18, 1965
DATUM ELEVATION 1100 FT. — SEAL SHOT VEL. 8000 F.P.S.
INTERPRETED BY: C. J. S.


Redknife
River
50'
45'



1 of 2



TROUT RIVER EAST

NORTHWEST TERRITORIES

SCALE 1 : 50,000

1.25 inches to 1 mile approximately

Miles 1 3 0 1 2 3 4 Miles

Feet 5000 0 5000 10000 15000 20000 Feet

Meters 1000 0 1000 2000 3000 4000 5000 6000 Meters

1 Km. ½ 0 1 Km. 2 Km. 3 Km. 4 Km. 5 Km. 6 Km.

North American Datum 1927
Universal
Transverse Mercator Projection
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Seismograph
SSC

PACIFIC 66

PACIFIC PETROLEUMS LTD.
CALGARY ALBERTA

TRAINOR LAKE

UTAHN To SLAVE POINT

CONTOUR INTERVAL 0.005 sec	DATE APRIL 1969
DATUM ELEVATION	ELEV. CORR. VEL.
INTERPRETED BY G.F.S.	

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