Western Decalta Petroleum Limited

Report on a Seismic Survey

of the

TREE RIVER AREA

NWT Permits: 3746, 5390, 5393
& leases selected from 3652, 3653 & 3654

D.I.A.N.D. Project #19-6-6-74-1

Seismic Sections Lines 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, and 26.

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OPERATOR: Western Decalta Petroleum Limited

CONTRACTOR: Globe Universal Sciences Canada Limited

D.I.A.N.D. Project #19-6-6-74-1

Field Work carried out in March, 1974.

Submitted by: [signature]

Date: Nov 24/75

019-06-06-051

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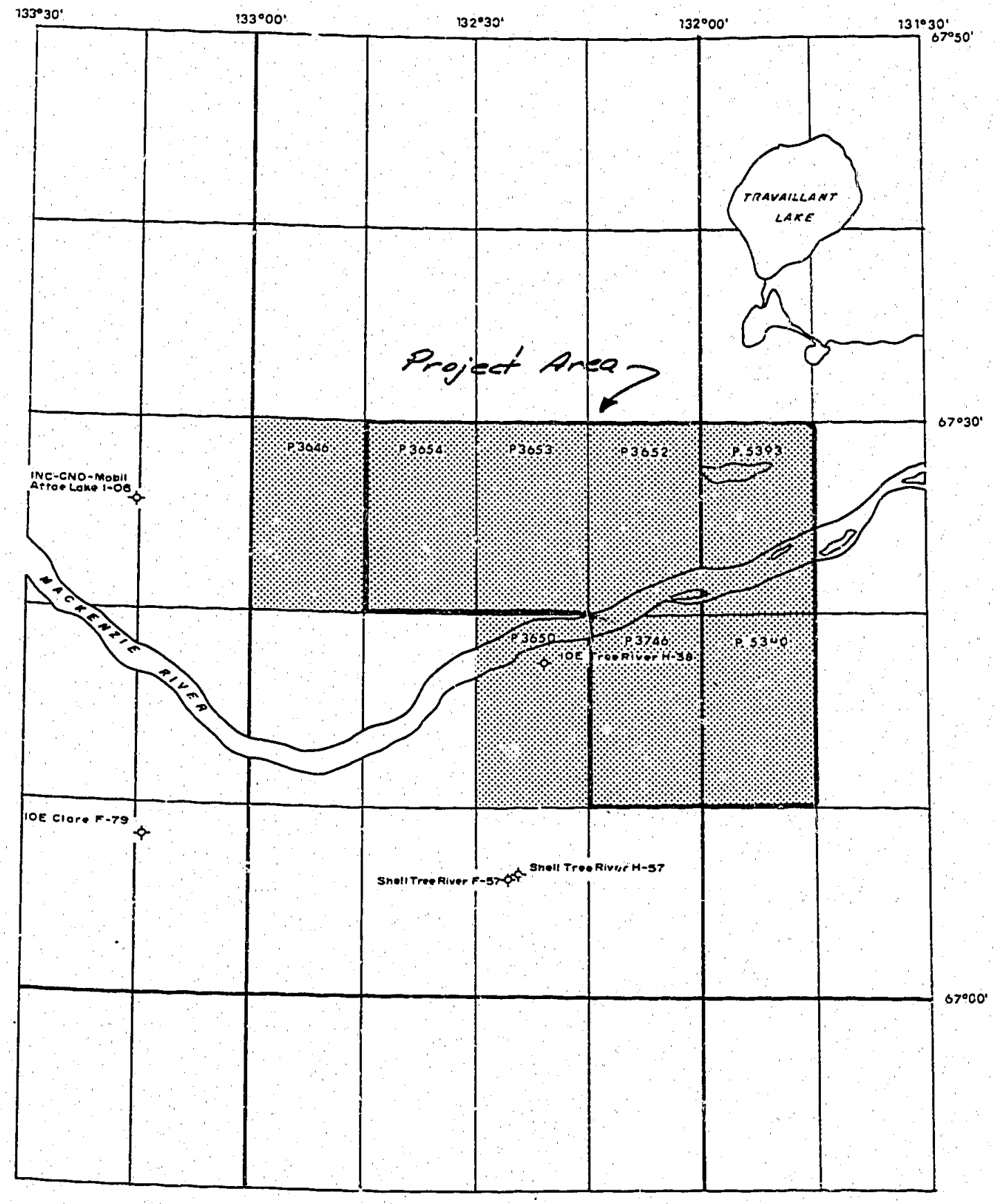
Enclosures: Shot Point Map
Time Structure Map
Middle Devonian Hume Formation

Seismic Sections Lines 11, 12, 13, 14, 15, 16, 17, 18, 20, 22, 24, and 26.


133°30'
133°00'
132°30'
132°00'
131°30'
67°50'
67°30'
67°00'
TRAVAILLANT LAKE
Project Area
P 3646
P 3654
P 3653
P 3652
P. 5393
P 3650
P 3746
P. 5340
INC-CNO-Mobil Arrae Lake I-06
MACKENZIE RIVER
IOE Tree River H-38
IOE Clare F-79
Shell Tree River F-57
Shell Tree River H-57
SCALE 1 INCH = 8 MILES

GEOPHYSICAL STATISTICAL DATA

(Required for operations in B.C., Y.T., and N.W.T.)

PROJECT TREE RIVER CREW GLOBE PARTY #4

LOCATION Lat 67° 10' - 67° 30' Long 131°45' - 132° 45' BASE INUVIK, N.W.T.

DATES OF OPERATION:

1. Mobilization of vessels/aircraft/vehicles March 1, 1974
2. Recorders left base on March 1, 1974
3. Recording commenced on March 3, 1974
4. Recording suspended on March 27, 1974
5. Recording recommenced on March 29, 1974
6. Recording completed on March 31, 1974
7. Vessels/aircraft/vehicles released on March 31, 1974

PRODUCTION:

1. Number of miles shot (or surveyed) 93.89
2. Number of shots taken 1024
3. Number of stations (gravity, magnetics, etc.) Nil
4. Number of recording days 26
5. Average daily production:
   a) miles shot (surveyed) 3.61
   b) stations shot (surveyed) Nil
6. Days lost due to weather conditions Nil
7. Days lost due to equipment failure 2

EQUIPMENT:

1. Full description of all vessels/aircraft/vehicles used:

5 - Air drills on tracked vehicles
1 - Recorder on Nodwell tracked vehicle
1 - Water carrier Flextrack tracked vehicle
11 - Bombardiers
2 - Fuel sloops (2500 gals. each)
1 - Fuel hauler/survival unit mounted on sleighs (1700 gals.)
2 - D6 Bulldozers
2 - D7 Bulldozers
Dozer camp 3 - trailers on sleighs
Trailer camp 8 - 9'x39' trailers on sleighs
1 - Sleigh mounted explosives magazine

2. Recording equipment:

a) instruments
GLOBE HDDR 4000

b) detectors
Geo Space 20D 14Hz

c) number cables used 40
d) length of each cable 660'
e) number of detector strings 140
f) number of detectors per string 9
g) detector spacing 25'
h) distance between group centres 110'

PERSONNEL: (numerical list of all field and office personnel assigned to crew, with positions or titles)

1 - Supervisor
1 - Party Manager
1 - Office clerk
2 - Surveyors
2 - Rodmen
1 - Observer
1 - Shooter
3 - Line unit drivers
8 - Helpers
1 - Mechanic
1 - Mechanics helper
5 - Drillers
5 - Drill helpers
1 - Cat foreman
4 - Dozer operators
2 - Cooks
1 - Cooks helper
1 - Camp attendant

NAVIGATION:

1. Equipment used in surveying:
2 - Wilde T16 Theodolite instruments

2. Method used to locate lines and stations:
Topographical

CONDITIONS: (list all pertinent meteorological, bathymetric and other working conditions affecting the survey, radio liaison, etc.)

NIL

FIELD PROCEDURES:

1. Type of shooting (reflection, refraction, rollalong, broadside, etc.)

   Reflection

2. Deployment of vessels/vehicles

5 Nodwell air drills	2 - D6 Dozers
1 Nodwell recorder	2 - D7 Dozers
3 Line units bombardier	1 - Dozer foreman bombardier
2 Survey units bombardier	

3. Percentage of stack 600%
4. Average charge size 10 pounds
5. Distance between stations/flight lines 440'
6. Elevations of aircraft N/A
7. Gradiometer and/or total field N/A

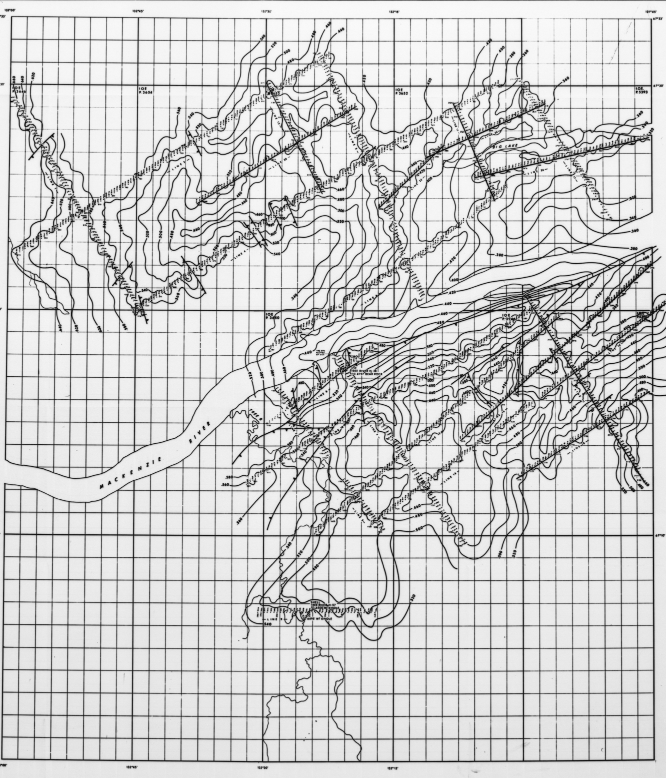
DATA PROCESSING:

Percent coverage	600
Datum elevation	500'
Replacement velocity	10,000 ft./sec.
Band Pass Filter	
Length	160 ms.
Filter	18/23 - 60/65 HZ
Gate	0-2000 ms.

RESULTS:

Data were generally fair to good.
A time structure map was made on the Hume reflection.

19-06-06-51-13



NOTE: Horizontal control was based from the I.O.E. Tree River H-38 well
Survey by: Globe Universal Sciences - Party No. 4.

— LINE SHOT IN PROJECT 19-6-6-74-1

WESTERN DECALTA PETROLEUM LIMITED
CALGARY, ALBERTA

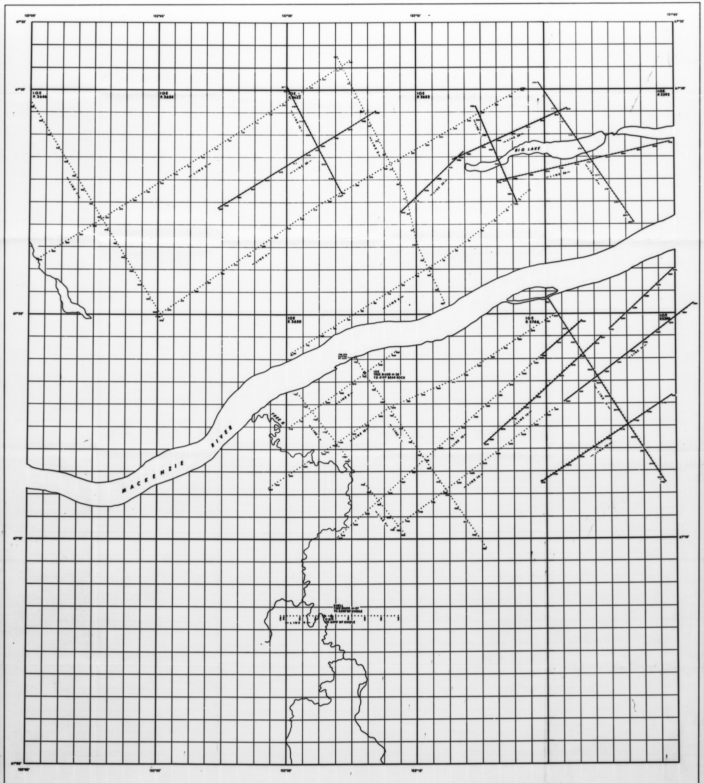
Reflection Time:
Middle Devonian- Hume Fm.

TREE RIVER PROSPECT
N.W.T.

DRAWN BY	DATE	INTERPRETATION BY
		DATE
SCALE		DATUM

019-06-06-051

19-06-06-51-J4



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WESTERN DECALTA PETROLEUM LIMITED
CALGARY, ALBERTA

Project # 19-6-6-51-1

TREE RIVER PROSPECT
N.W.T.

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