

WESTERN DECALTA PETROLEUM LIMITED

Report on a Seismic Survey
of the

NORMAN WELLS AREA

N.W.T. PERMITS: 3783, 3784, 3785

D.I.A.N.D. PROJECT NO. 19-6-5-70-2



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Report on a Seismic Survey
of the

NORMAN WELLS AREA

N.W.T. PERMITS:

3783, 3784 & 3785

OPERATOR - WESTERN DECALTA PETROLEUM LIMITED

CONTRACTOR - CATALINA EXPLORATION

D.I.A.N.D. PROJECT NUMBER - 19-6-5-70-2

Submitted by

Date

Paul Patten
March 7/73

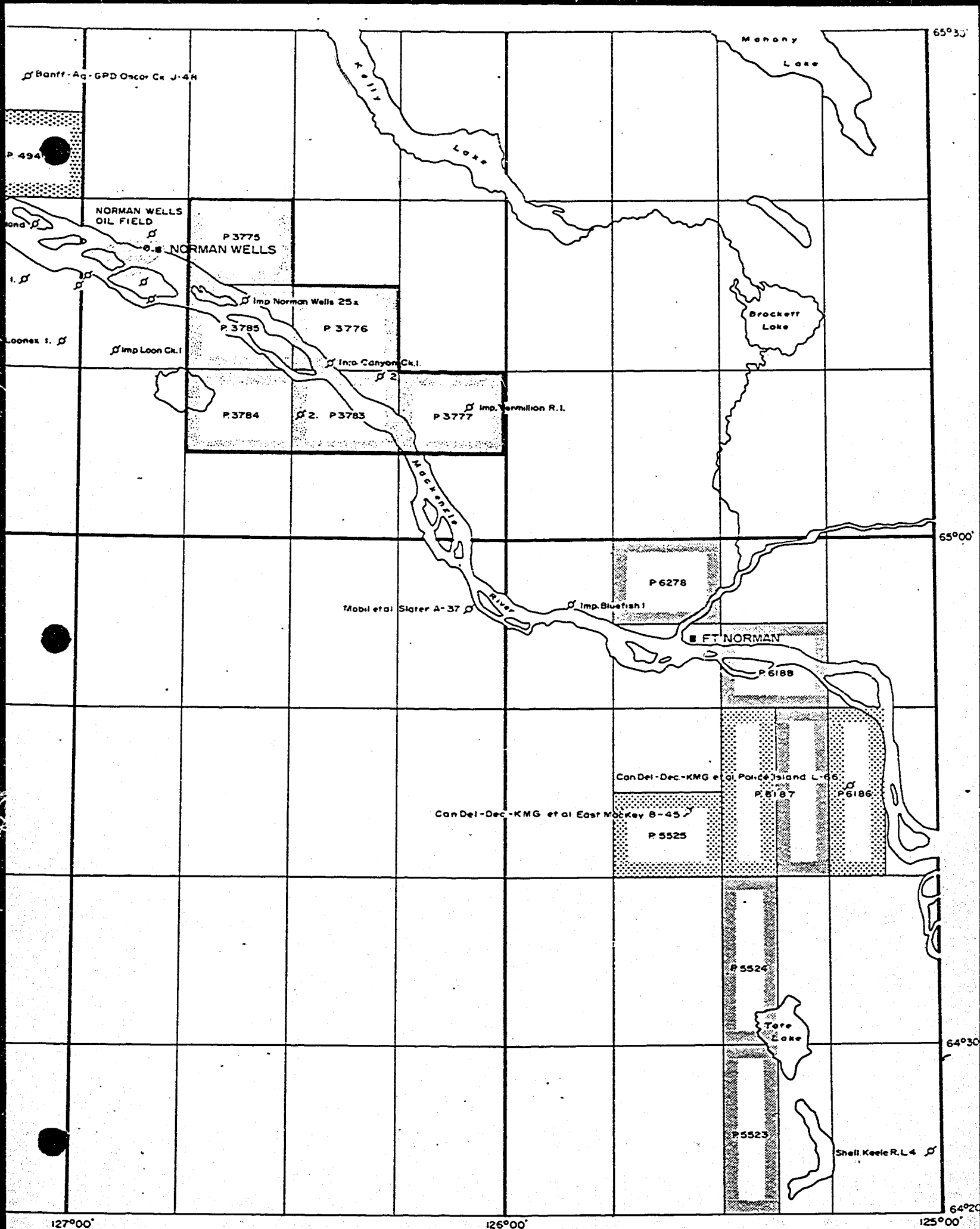
C O N T E N T S

Production	1
Equipment	1
Personnel	1
Surveying	2
Field Procedures	2
Data Processing	3
Results	3

Enclosures - Time Structure Map.

Middle Devonian Hume Formation

96E SE.



PROJECT AREA

SCALE 1 INCH = 8 MILES

STATISTICAL DATA

PRODUCTION:	Total mileage	<u>19</u>	
	Total shots	<u>228</u>	
	Average production	<u>2</u>	mi./D
Downtime -	Weather	<u>2</u>	Days
	Equipment	<u>10</u>	Days

EQUIPMENT:

Complete track seismic crew consisting of:

<u>1</u>	Recording unit
<u>1</u>	Line unit
<u>1</u>	Shooting unit
<u>2</u>	Survey unit
<u>1</u>	Party manager unit
<u>2</u>	Drills
<u>2</u>	Bulldozers
<u>1</u>	Camp

Instruments DFS III

PERSONNEL:

<u>1</u>	Supervisor
<u>1</u>	Party Manager
<u>1</u>	Computer
<u>1</u>	Observer
<u>1</u>	Shooter
<u>2</u>	Surveyor
<u>4</u>	Line helper
<u>2</u>	Drillers
<u>1</u>	Mechanic
<u>2</u>	Camp Personnel

Surveying Method Transit

FIELD PROCEDURES

Recording system	<u>DFS III</u>
Source	<u>Dynamite</u>
Spread Geometry	<u>1320-0-1320</u>
Number of Traces	<u>24</u>
Group Interval	<u>110</u>
Shotpoint Interval	<u>440</u>
Fold	<u>300 %</u>
Geophones per group	<u>9</u>
Source size	<u>10</u>
Hole depth	<u>45</u>
Field Filter	<u>18 - out</u>

DATA PROCESSING:

Time variant filters 18-50 Hertz.

Time variant deconvolution operator length
100 ms. Structure section. Datum 350' ASL.

Replacement velocity 9,000'/sec.

Final output 300% stack.

RESULTS -

Data were generally good.

A reflection time map was made on the
Middle Devonian Hume Formation.

