

WESTERN DECALTA PETROLEUM LIMITED

Report on a Seismic Survey

of the

KEELE SOUTH

N.W.T. PERMITS: 5417 & 5418

D.I.A.N.D. PROJECT NO. 19-6-5-70-3



WESTERN DECALTA PETROLEUM LIMITED

Report on a Seismic Survey

of the

KEELE SOUTH

N.W.T. PERMITS

5417 & 5418

OPERATOR - WESTERN DECALTA PETROLEUM LIMITED

CONTRACTOR - CATALINA & WESTERN GEOPH. (SIGMA)

D.I.A.N.D. PROJECT NUMBER - 19-6-5-70-3

Submitted by

Ed. Patterson

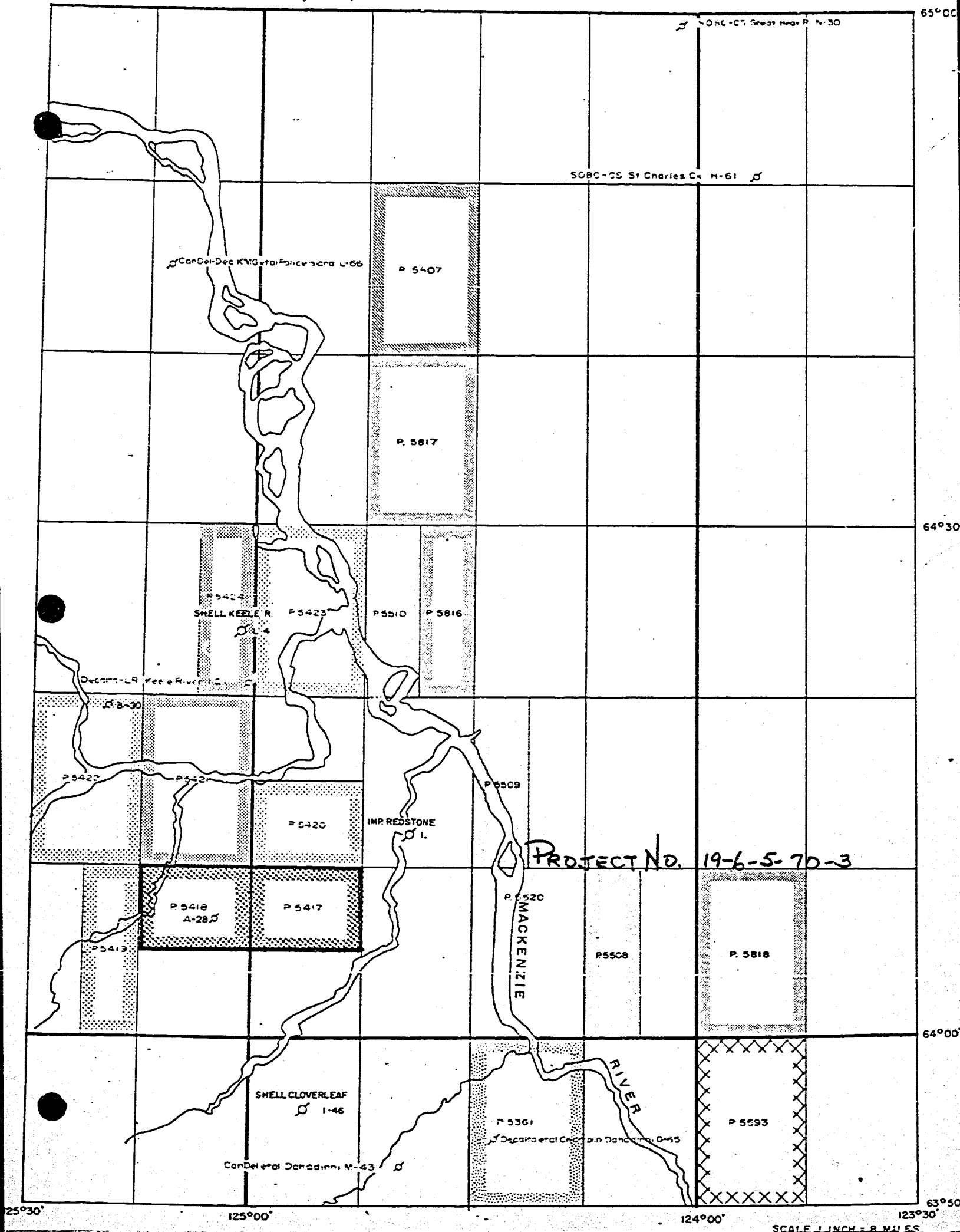
Date

March 13/73

C O N T E N T S

Index Map	1
Production	2
Equipment	2
Personnel	2
Surveying	3
Field Procedures	3
Data Processing	4
Results	4

Enclosures: Structure Map
 Middle Devonian Hume Formation



STATISTICAL DATA

PRODUCTION:	Total mileage	<u>57</u>	
	Total shots	<u>682</u>	
	Average production	<u>1</u>	mi./D.
Downtime -	Weather	<u>1</u>	days
	Equipment	<u>5</u>	

EQUIPMENT:

Complete track seismic crew consisting of:

<u>1</u>	Recording unit
<u>2</u>	Line unit
<u>1</u>	Shooting unit
<u>1</u>	Party manager unit
<u>1</u> *	Survey unit
<u>4</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>1</u>	Surveyor
<u>4</u>	Line helper
<u>4</u>	Drillers
<u>1</u>	Mechanic
<u>3</u>	Camp Personnel

Surveying Method

Transit

FIELD PROCEDURES

Recording system	<u>DFS III</u>
Source	<u>Dynamite</u>
Spread Geometry	<u>1265-55-0-55-1265</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>18/124</u>

DATA PROCESSING:

Structure section to datum of 1000' ASL.

Replacement velocity 10,000'/sec.

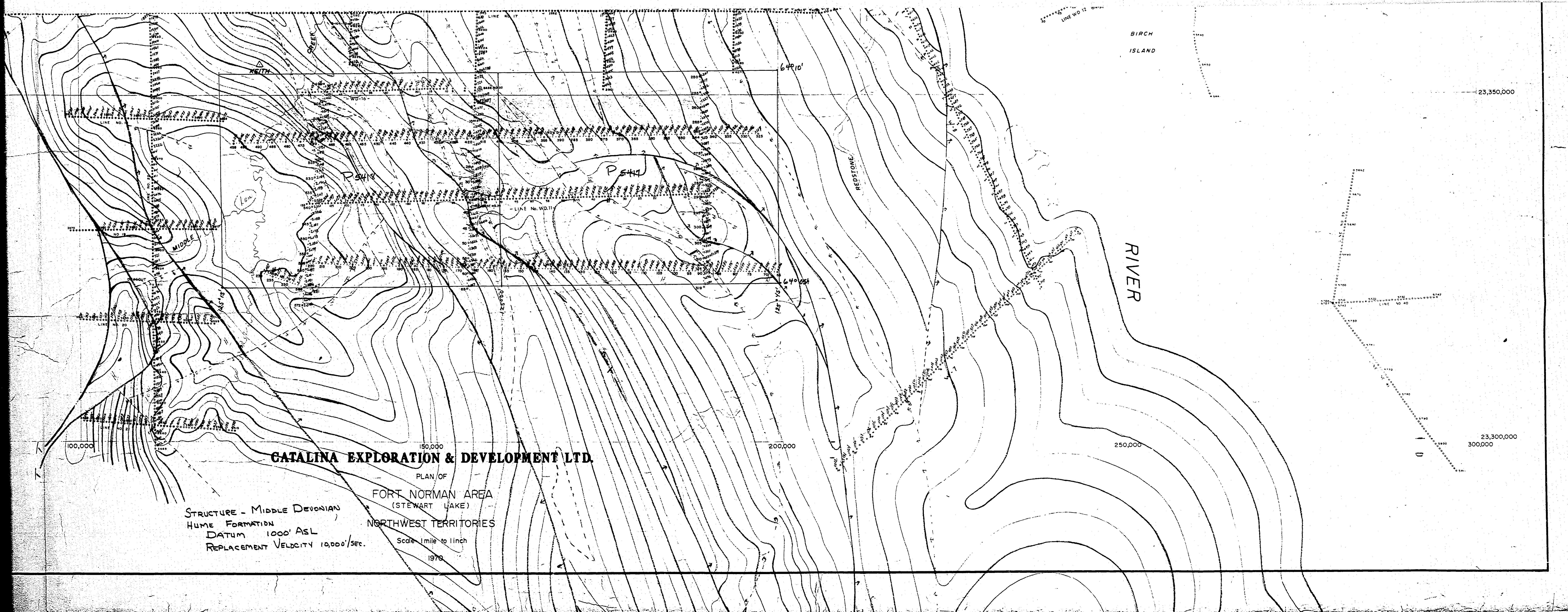
Bandpass filter 18-25/55-60.

Time domain deconvolution 44 ms.

Operator length window 0.35 - 1.20 sec. whitening
factor of 1.8. 300% stack.

RESULTS:

Record quality was generally good. A structure
map was made on the Middle Devonian Hume formation.



CATALINA EXPLORATION & DEVELOPMENT LTD.

STRUCTURE - MIDDLE DEVONIAN
HUME FORMATION
DATUM 1000' ASL
REPLACEMENT VELOCITY 10,000'/SEC.

PLAN OF
FORT NORMAN AREA
(STEWART LAKE)
NORTHWEST TERRITORIES

Scale 1 mile to 1 inch
1970

