



WESTERN DECALTA PETROLEUM LIMITED

Report on a Seismic Survey

of the

WRIGLEY AREA

N.W.T. PERMITS: 5516-5518 incl.

OPERATOR - WESTERN DECALTA PETROLEUM LIMITED

CONTRACTOR - CATALINA AND WESTERN GEOPHYSICAL (SIGMA)

D.I.A.N.D. PROJECT NUMBER - 19-6-4-71-1

Submitted by

Bill Paterson

Date

March 13/73

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Enclosures:

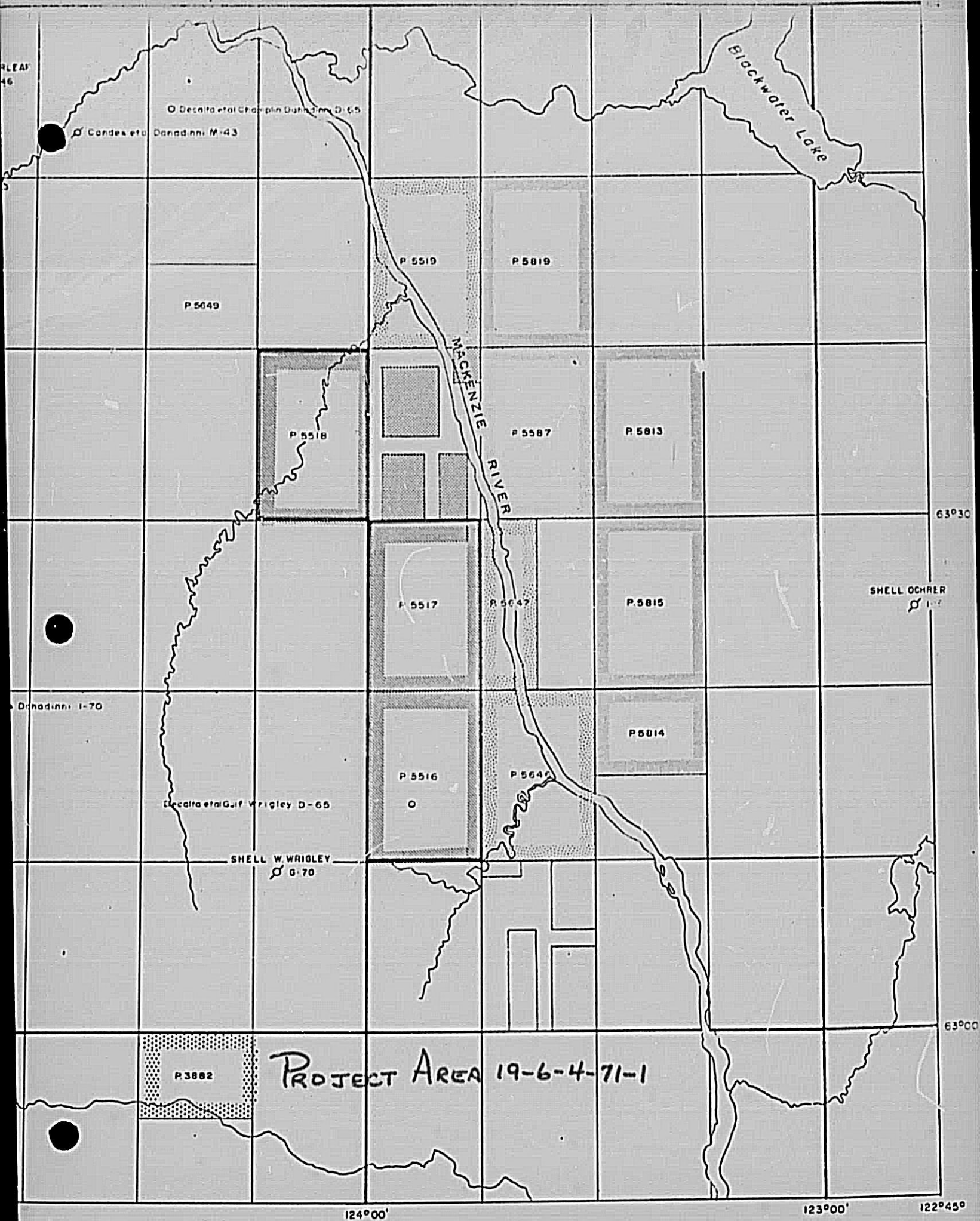
Time Structure Maps Middle Devonian

Hume Formation Permit 5516

Permit 5517

Permit 5518

Isochron - Middle Devonian Hume Formation
to "Cambrian" 95N NE, 950 SW.



STATISTICAL DATA

DATES: Commencement March 17, 1971
 Completion April 12, 1971

PRODUCTION: Total mileage 90 Miles
 Total shots 1080
 Average production 3.2 mi./D.

Downtime - Weather Nil Days
 Equipment Nil Days

EQUIPMENT: Complete wheel track seismic crew consisting of:

<u>1</u>	Recording Unit
<u>2</u>	Line unit
<u>1</u>	Shooting unit
<u>1</u>	Survey unit
<u>1</u>	Party manager unit
<u>4</u>	Drills
<u>2</u>	Bulldozers
<u>1</u>	Camp

Instruments Geospace 1590

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>5</u>	Line helper
<u>4</u>	Drillers
<u>1</u>	Mechanics
<u>3</u>	Camp Personnel

SURVEYING METHOD:

Transit

FIELD PROCEDURES

Recording system	<u>Geospace 1590</u>
Source	<u>Dynamite</u>
Spread Geometry	<u>2640-220-0-220-2640</u>
Number of Traces	<u>24</u>
Group Interval	<u>220</u>
Shotpoint Interval	<u>440</u>
Fold	<u>600 %</u>
Geophones per group	<u>9</u>
Source Size	<u>10#</u>
Hole Depth	<u>60'</u>
Field Filter	<u>9/out</u>

DATA PROCESSING:

Structure sections to datum 1000' ASL.

Replacement velocity 10000'/sec.

Gate times 0.0 - 3.0 sec.

Bandpass filters 18-25/55/60.

Time domain deconvolution.

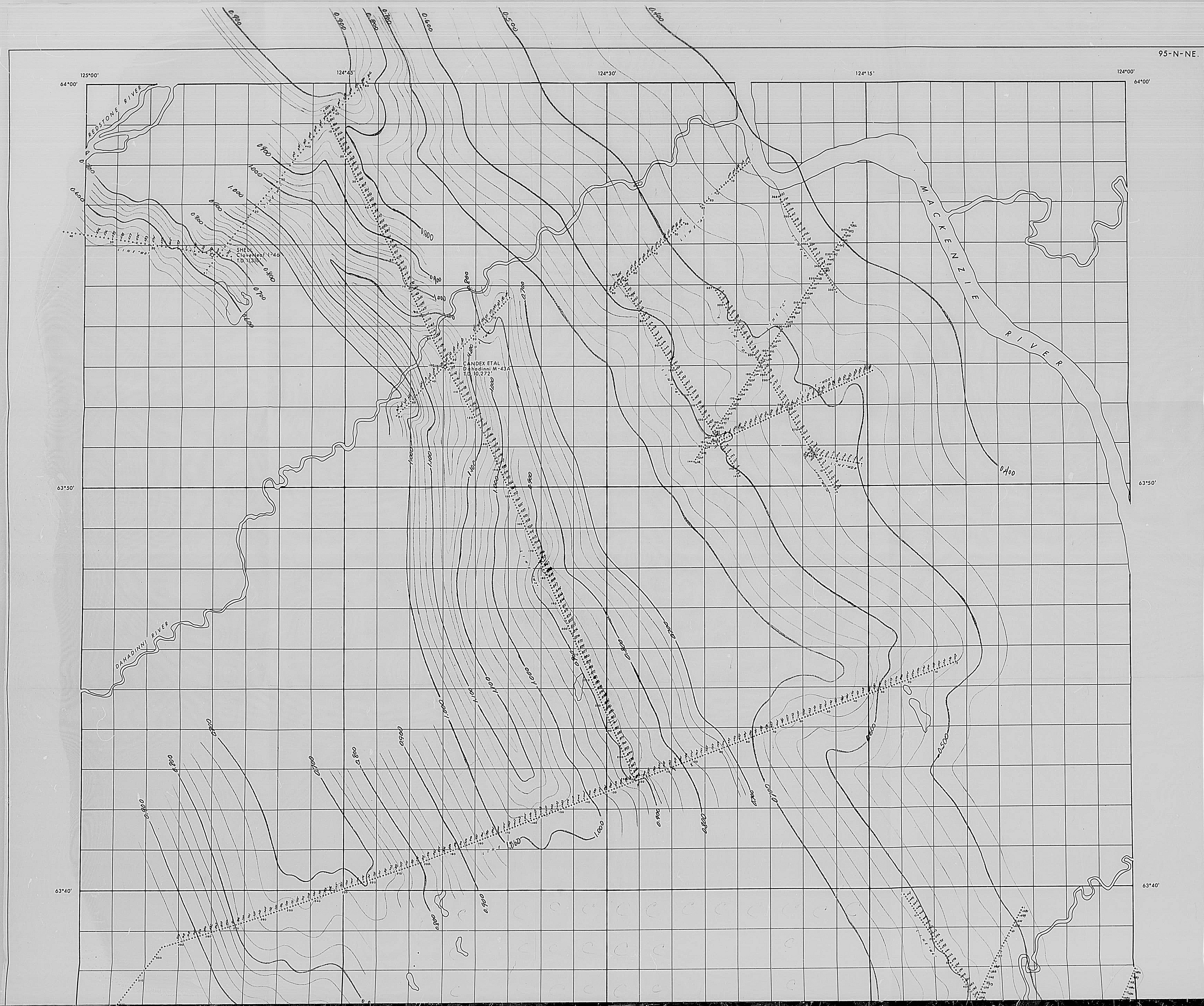
Operator length 56 ms. to a window of

0.350 - 1.350 with whitening factor of

120%. 600% stack.

RESULTS:

Record quality was generally good. Structure maps were made on the Middle Devonian Hume formation and isochron maps were made from Middle Devonian Hume to "Cambrian".



95-N-NE.



DATE: _____
File No. _____

