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ECONOMIC MINERALS
FILE REPORT No.
<i>S-AF-162(1)</i>

Report on Work Performed on Sulphur Permit #162 -
P. & N.G. Permit 806

The attached map on a scale of 1"= 1 mile shows the location of a number of seismic lines shot during the winter season 1967-68 on and in the vicinity of sulphur permit #162. A total of 162 shot holes numbered from 1215-2570 were sampled in intervals ranging from 5 to 10 feet. The samples were taken at depths between 5 feet minimum and 40 feet maximum.

All sampling locations are plotted on the attached map and so are the depths of all samples examined.

The examination had to be confined to samples from 113 wells located on three east-west lines and 3 lines running north-south. Samples from the remaining 50 shot holes were unidentifiable or consisted only of mud. The samples consisted mostly of clay, often silty to fine sandy and are believed to be alluvial sediment. The shallow samples frequently contained peat.

Examination Procedures:

All samples were dry and hard baked and had to be loosened to provide a fraction for examination. As a rule a 2-3 ounce fraction was separated and examined visually for sulphur. The samples were then placed in a drying oven and heated to a maximum temperature of 350° F. A constant check was kept on the development of SO₂ fumes and on fusion or burning of the sample. A number of samples were double checked under the binocular microscope and fluoroscope. A list of all samples in numerical order of the shot holes is attached and the specific testing procedures to which they were subjected are checked off.

Results:

The examination carried out, failed to detect sulphur in any of the samples. The procedures applied are believed to be adequate to detect sulphur even in minor amounts. We are, therefore, reasonably convinced that sulphur is not present in significant proportions in any of the samples examined.

Critical Comments:

The distribution of individual samples among all shot holes can be seen on the attached map. There are, for instance, only 9 samples from 5 feet of depth. The bulk of the samples are from 10 feet of depth. Only a comparatively small number of shot holes have been sampled at regular intervals to the total depth. There is no tie-in of the sample locations to surface or subsurface geology, or even to drainage or other topography, which might be considered important for recent sulphur deposition. We further suggest that the sampling procedure at the shot hole site may not have been exacting and accurate enough to provide reliable, representative samples.

We conclude from this that the work carried out should not be considered absolute proof for the absence of any sulphur in the area.


D.B. Layer

List of Drill Listings from Seismic Shot Holes
in Permit #162.

A - Sample Available
F - Flame and Gas Tested
B - Binocular (Microscope)
FL - Fluoroscope Examination
%S - % Sulphur

Shot Point	Location	5' Sample					10' Sample					20' Sample					30' Sample					40' Sample				
		A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S
D-1215							✓	✓			-	✓					✓					✓				
1230							✓	✓			-	✓	✓			-	✓	✓				-	✓	✓		
1245												✓														
1250							✓	✓			-											✓				
1255							✓	✓			-	✓					✓					✓				
1260												✓					✓					✓				
1270							✓	✓			-	✓	✓			-	✓	✓				-	✓	✓		
1275							✓	✓			-						✓					✓				
1285							✓	✓			-	✓					✓					✓				
1295							✓	✓			-															
1305							✓	✓			-	✓	✓			-						✓	✓			
1310							✓	✓			-	✓					✓					✓				
1320							✓	✓			✓	✓					✓					✓				
1325							✓	✓			-	✓					✓					✓				
1340							✓	✓			-											✓				
1350							✓	✓			-	✓	✓			-	✓	✓				-	✓	✓		
1355							✓	✓			-	✓					✓					✓				
1360												✓														
1365							✓	✓			-	✓					✓									
1370							✓	✓			-	✓					✓					✓				
1380							✓	✓			-	✓					✓					✓				
1385							✓	✓			-	✓					✓					✓				
1400							✓	✓			-	✓	✓			-										
1415							✓	✓			-	✓					✓					✓				
1420							✓	✓			-	✓					✓					✓				
1425							✓	✓			-	✓					✓					✓				
1430							✓	✓			-	✓	✓			-	✓	✓				-				
1440												✓														
1445							✓	✓			-	✓					✓					✓				
1450							✓	✓			-	✓					✓					✓				
1455							✓	✓			-	✓	✓			-	✓	✓				-	✓	✓		
1475							✓	✓			-	✓										✓				
1480																	✓									
1485							✓	✓			✓	-					✓	✓				-	✓	✓		
1495							✓	✓			-						✓									
1500							✓	✓			-						✓					✓				
1505							✓	✓			-	✓					✓					✓				

A - Sample Available
 F - Flame and Gas Tested
 B - Binocular (Microscope)
 FL - Fluoroscope Examination
 %S - % Sulphur

Shot Point	Location	5' Sample					10' Sample					20' Sample					30' Sample					40' Sample					
		A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	
7 D- 1515						✓	✓		✓	-	✓	✓			-	✓	✓			-	✓	✓					
1520						✓	✓			-	✓					✓						✓					
1525						✓	✓			-	✓					✓						✓					
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1535						✓	✓			-	✓					✓						✓					
1540						✓	✓		✓	-	✓					✓						✓					
1545						✓	✓			-	✓					✓						✓					
1550						✓	✓			-	✓					✓						✓					
1560						✓	✓			-	✓					✓						✓					
1565						✓	✓			-	✓					✓						✓					
1570						✓	✓		✓	-	✓					✓						✓					
1575						✓					✓					✓						✓					
1580						✓	✓			-	✓					✓						✓					
1585						✓					✓					✓						✓					
1590						✓	✓			-	✓					✓						✓					
1595						✓	✓			-	✓					✓						✓					
1605						✓	✓			-	✓					✓						✓					
1615						✓	✓			-	✓					✓						✓					
1625						✓	✓			-	✓					✓						✓					
1630											✓					✓						✓					
1635						✓	✓			-	✓					✓						✓					
1640						✓	✓		✓	-	✓					✓						✓					
1645											✓	✓			-	✓						✓					
1650						✓	✓			-	✓					✓						✓					
1660						✓	✓		✓	-	✓					✓						✓					
1665						✓	✓				✓					✓						✓					
1670						✓	✓			-	✓					✓						✓					
1680						✓	✓			-	✓					✓						✓					
1685						✓	✓			-	✓					✓						✓					
1695											✓	✓			-	✓						✓					
1710						✓	✓			-	✓	✓			-	✓	✓					✓	✓				
1715						✓	✓				✓					✓						✓					
1720						✓	✓			-	✓					✓						✓					
1725						✓	✓			-	✓					✓						✓					
1730						✓	✓		✓	-	✓					✓	✓					✓					
1735						✓	✓				✓					✓						✓					
1740						✓					✓					✓						✓					

A - Sample Available
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Shot Point	Location	5' Sample					10' Sample					20' Sample					30' Sample					40' Sample				
		A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S
7 D- 1745						✓	✓			-	✓	✓			-							✓	✓			-
1770						✓	✓			-	✓	✓			-							✓	✓			-
1795						✓	✓			-	✓	✓			-	✓	✓					✓	✓			-
1800						✓	✓			-	✓	✓			-	✓	✓					✓				-
1805											✓	✓			-	✓	✓									-
1810																✓	✓					-	✓	✓		-
1815						✓	✓			-	✓	✓			-	✓						✓				-
1820						✓	✓			-	✓	✓		✓	-	✓										-
1825											✓	✓			-	✓	✓					✓				-
1830						✓	✓			-	✓	✓			-	✓						✓				-
1835						✓	✓			-	✓					✓						✓				-
1840						✓	✓			-	✓					✓						✓				-
1845						✓	✓			-	✓					✓						✓				-
1850						✓	✓			-	✓	✓			-	✓	✓					✓	✓			-
1855											✓	✓			-	✓						✓				-
1860											✓	✓			-	✓						✓				-
1865						✓	✓		✓	-	✓					✓						✓				-
1870						✓	✓			-	✓	✓			-	✓						✓				-
1875						✓	✓			-	✓	✓			-	✓						✓				-
1880						✓	✓			-						✓						✓				-
1885						✓	✓			-	✓					✓						✓				-
1890						✓	✓			-	✓	✓			-	✓	✓					✓				-
1895											✓	✓			-	✓						✓				-
1900						✓	✓			-	✓	✓			-	✓	✓					✓	✓			-
1905						✓	✓		✓	-	✓					✓						✓				-
1910						✓	✓			-	✓					✓						✓				-
1915						✓	✓			-	✓					✓						✓				-
1920						✓	✓			-	✓	✓			-	✓						✓				-
1925						✓	✓			-	✓					✓						✓				-
1930						✓	✓			-	✓					✓						✓				-
1935						✓	✓			-	✓					✓						✓				-
1940						✓	✓			-	✓	✓			-	✓						✓				-
1945						✓	✓			-	✓					✓						✓				-
1950						✓	✓			-	✓	✓			-	✓	✓					✓				-
1955						✓	✓		✓	-	✓					✓						✓				-
1960						✓	✓			-						✓						✓				-
1965						✓	✓			-						✓						✓				-

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Shot Point	Location	5' Sample					10' Sample					20' Sample					30' Sample					40' Sample				
		A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S
D-1970						✓	✓			-	✓	✓			✓	-	✓					✓				
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1985						✓	✓			-	✓	✓			✓							✓				
2000						✓	✓			-	✓	✓			✓	✓					-					
2010											✓	✓			✓							✓				
2015						✓	✓			-	✓				✓							✓				
2020						✓	✓			-	✓	✓			✓	✓					-	✓	✓			-
2040						✓	✓			-	✓	✓														
2045						✓	✓			-					✓							✓				
2055						✓	✓			-	✓				✓							✓				
2060						✓	✓			-	✓	✓			✓							✓	✓			-
2065															✓							✓				
2075						✓	✓			-	✓	✓			✓	✓					-	✓	✓			-
2080						✓	✓			-	✓															
2085															✓	✓					-					
2090		✓	✓			-	✓	✓		-	✓	✓			-							✓	✓			-
2100							✓	✓		-					✓											
2105							✓				✓	✓			✓	✓					-	✓	✓			-
2120		✓	✓			-	✓				✓											✓	✓			-
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2160							✓	✓		-					✓							✓				
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2175							✓	✓		-					✓							✓				-
2180							✓	✓		-	✓				✓							✓				-
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2190							✓	✓		-	✓	✓			✓	✓					-	✓	✓			-
2200							✓	✓		-	✓				✓							✓				-
2210							✓			-	✓				✓	✓					-	✓	✓			-
2215																						✓	✓			-
2220							✓	✓		-	✓				✓							✓				-
2225															✓							✓				-
2230							✓	✓		-	✓	✓			✓	✓					-	✓	✓			-
2235															✓							✓				-

A - Sample Available
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Shot Point	Location	5' Sample					10' Sample					20' Sample					30' Sample					40' Sample				
		A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S	A	F	B	FL	%S
D-2240							✓	✓			-	✓	✓			-	✓	✓			-	✓	✓			-
2245							✓	✓			-	✓	✓			-	✓	✓			-	✓	✓			-
2250							✓	✓			-	✓	✓			-						✓	✓			-
2255							✓	✓			-						✓					✓				
2265							✓	✓			-	✓	✓			-						✓				
2275												✓	✓			-	✓	✓			-	✓	✓			-
2280							✓	✓			-	✓	✓			-	✓					✓				
2285							✓	✓			-	✓					✓									
2290																						✓				
2300							✓	✓			-	✓	✓			-	✓	✓			-	✓	✓			-
2305		✓	✓			-	✓	✓			-	✓					✓					✓				
2310		✓	✓			-						25					✓					✓				
2320																	✓									
2325							✓	✓			-															
2330							✓	✓			-	✓	✓			-	✓	✓			-	✓	✓			-
2335												✓														
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2355							✓	✓			-	✓	✓			-						✓	✓			-
2360																	✓	✓			-					
2370																						✓				
2415												✓	✓			-										
2420																	35									
2435												✓	✓			-	✓					✓				
2440												✓														
2445		✓	✓			-	✓					✓	✓			-	✓	✓			-					
2450		✓	✓			-						✓										✓				
2455							✓	✓			-	✓	✓			-	✓									
2460							✓	✓			-	✓					✓									
2470																										
2480		✓	✓			-						✓	✓			-						✓				
2485																	✓	✓			-					
2495							✓	✓			-	✓										✓				
2515							✓	✓				15	✓			-	25	✓			-	✓				
2520							✓					✓										✓				
2525							✓	✓			-	✓					✓	✓			-	✓				
2570																	35				-					

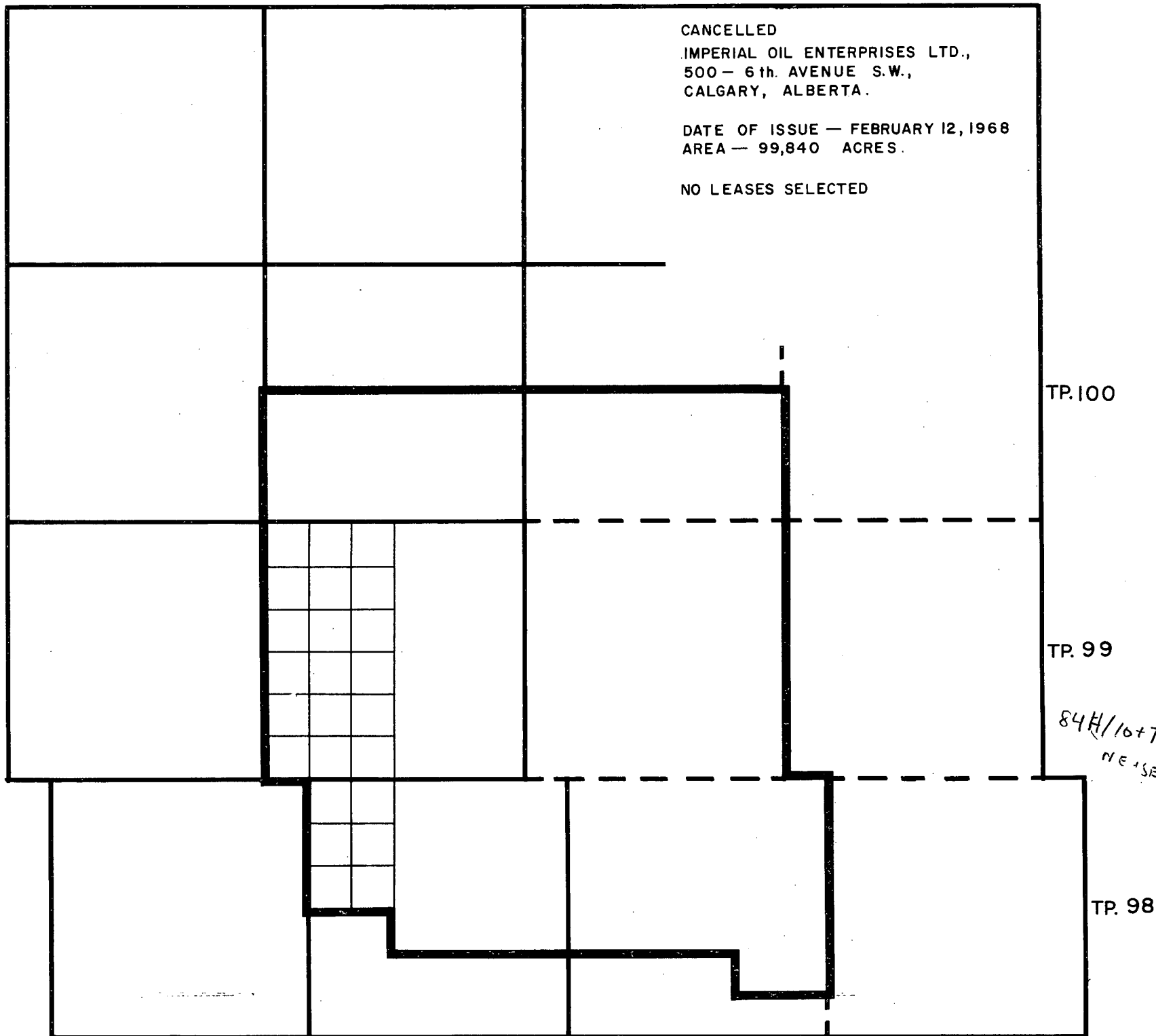
SULPHUR PROSPECTING PERMIT No. 162

CANCELLED

IMPERIAL OIL ENTERPRISES LTD.,
500 - 6th AVENUE S.W.,
CALGARY, ALBERTA.

DATE OF ISSUE — FEBRUARY 12, 1968
AREA — 99,840 ACRES.

NO LEASES SELECTED



R.18

R.17

W.4M.

T.103

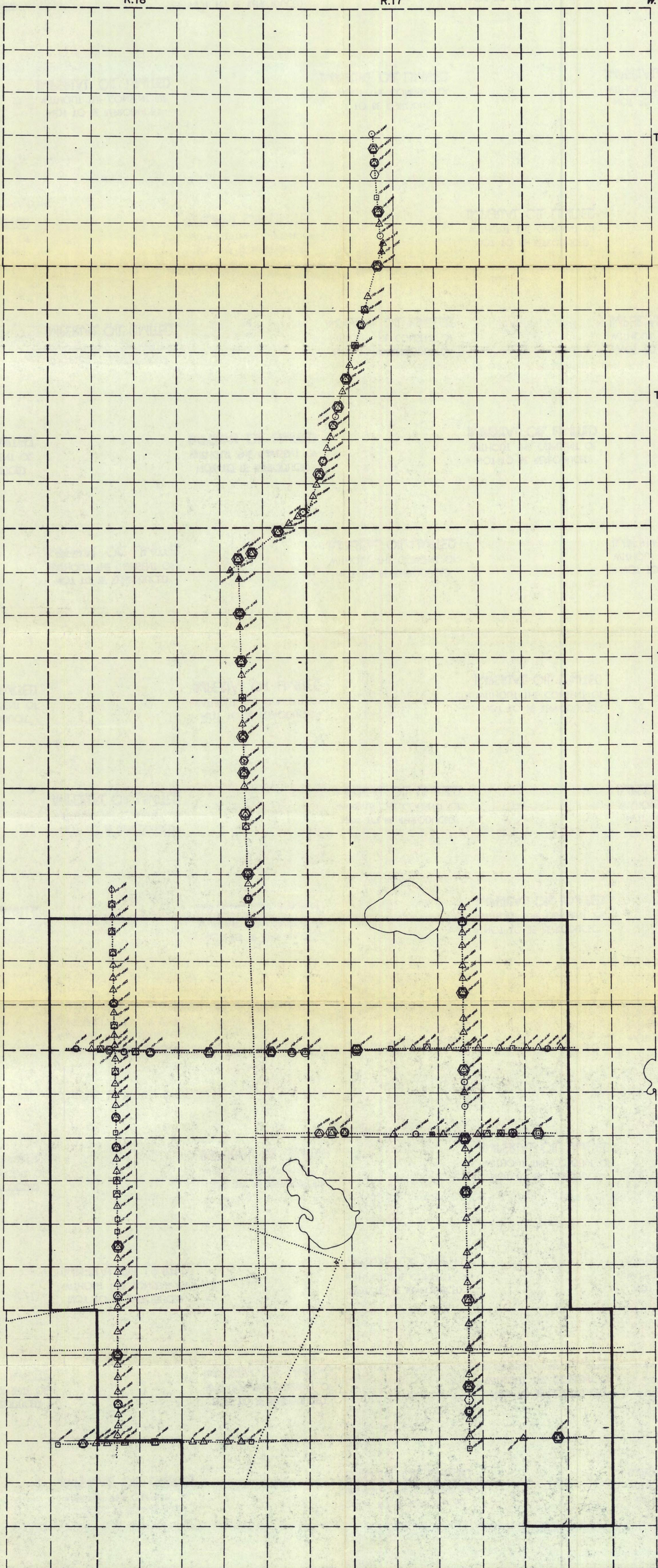
T.102

T.101

T.100

T.99

T.98



LEGEND

SAMPLES EXAMINED
DEPTH IN FT.

•	5
△	10
□	20
○	30
○	40

IOE SULPHUR PROSPECT PERMIT No. 162

SCALE: 1 INCH TO 1 MILE