

MAR 19680039: WENTZEL RIVER

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19680039

ECONOMIC MINERALS
FILE REPORT No.
S-AF-0.246)

ECONOMIC MINERALS
FILE REPORT No.
S-AF-024(1)

REPORT ON FIELD WORK

OF CORE DRILLING

IN THE

WENTZEL RIVER SULPHUR PROSPECT AREA

OF

ALBERTA, CANADA

FOR

BRITISH AMERICAN OIL COMPANY

BY

SIGMA EXPLORATIONS LTD.

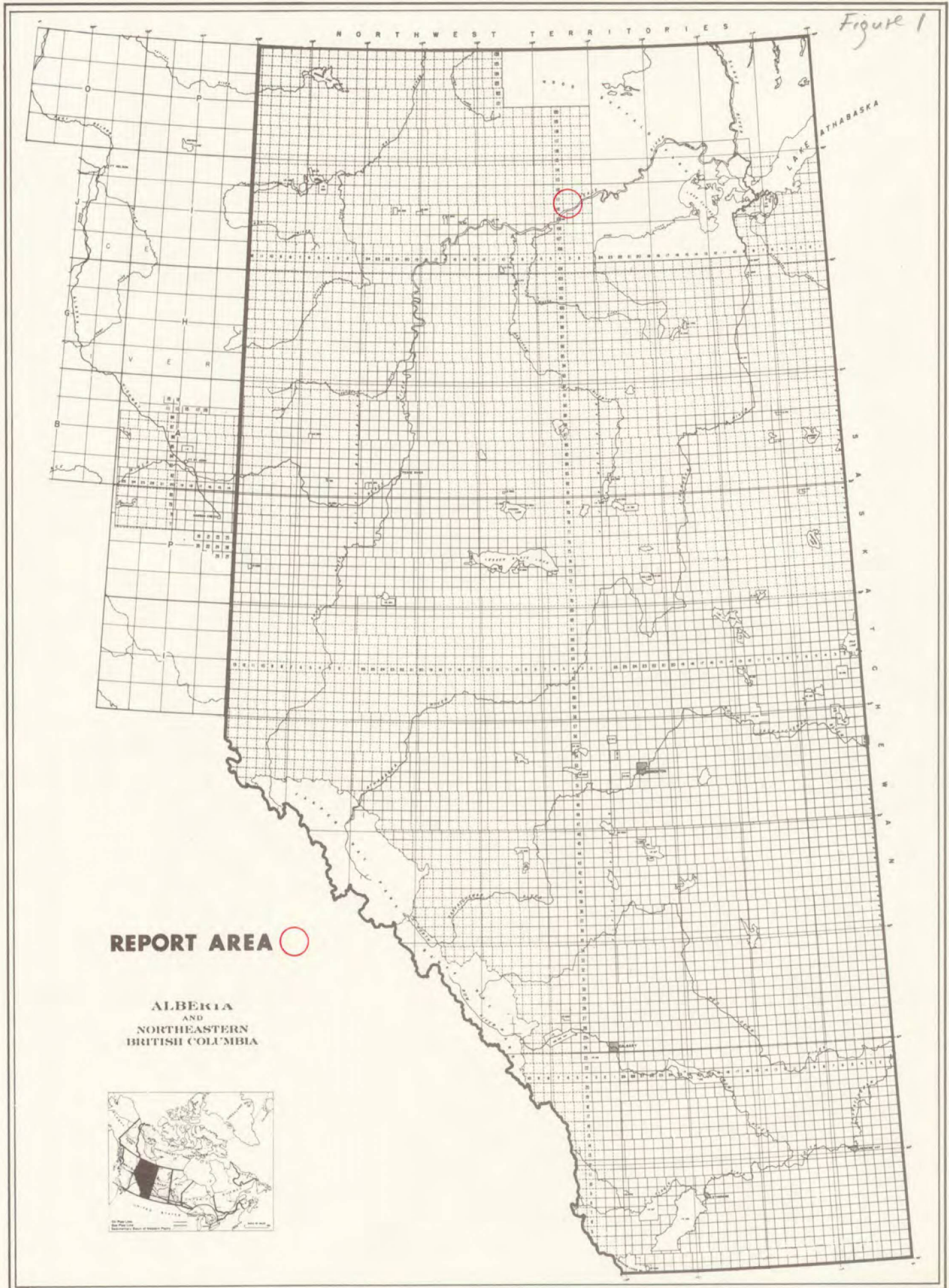
PROJECT NO. 24

Calgary, Alberta, Canada

April, 1968

Interim Report Only

Figure 1



REPORT AREA ○

**ALBERTA
AND
NORTHEASTERN
BRITISH COLUMBIA**



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LOCATION OF AREA

The Sulphur Permit is located in Northern Alberta, Twp. 110 and 111, Rge. 2 to 4 W.5M., approximately six miles north of the Fox Lake Indian Reserve No. 126, 18 miles west of Wood Buffalo National Park and 55 miles east northeast of the Village of Fort Vermilion.

Topography

Permit Number 24 is located on a series of broad terraces, north of the Peace River. The average surface elevation of the area is approximately 1100 feet above sea level and no severe elevation changes were encountered over the area.

The general drainage pattern is toward the south south-east with the Wentzel River draining the west portion of the permit, Waldo Creek draining the east portion and Rennie Creek draining the central part of the area. All the streams flow south into the Peace River.

Forest cover throughout most of the prospect area graded from very light to medium with some heavy stands of spruce occurring in the northwest portion of the permit, particularly along the Wentzel River. Very little muskeg or swamp was encountered on any of the lines and no commercial timber was destroyed in line cutting operation.

Access

Access to the area was gained by a graded road running east from High Level along the north bank of the Peace River. This route is east of the Fort Smith road and is maintained both winter and summer by the Swanson Lumber Company over which logging trucks operate some nine months of the year. All small creeks have culverts built under the road and two log bridges cross the Lawrence River and the Wentzel River. From a point ten miles west of the Lawrence the highway is maintained and operated by the Alberta Department of Highways and steel bridges are in place over major streams and rivers.

No airstrips were located in close proximity to the camp and all supplies had to be brought in by truck. This presented some problems during the last few days of operation, when unseasonably high temperatures thawed the frost out of the road.

Weather

The weather conditions encountered during the field operation were unseasonably warm with day temperatures of +40° to +50° general in the area. During the latter stages of the program care had to be taken that no permanent damage was done to the main access road. On March 26 the decision was made that further work in the area would damage existing road and trails and operations were suspended until after spring break-up.

FIELD OPERATIONS

Field operations were commenced on the permit on March 19, 1968, and concluded March 26, 1968. During this period a total of 5022 feet of core drilling were completed and some 56 miles of line cleaned or cleared by bulldozers.

Bulldozer operations were started on March 19 using two bulldozers: a Caterpillar D-7-E and a Caterpillar D-6-C. Two shifts were operated continuously on each machine to clean new lines and snowplow existing lines.

No major problems were encountered except the D-7-E broke through a creek on March 25 and spent some ten hours in the creek before it could be winched out by the other machine.

During this period a total of 31 miles of new line were cut and cleared and 25 miles of existing line were snowplowed. A total of 280 bulldozer hours were utilized on this permit with the bulldozer averaging 7.6 hours per mile of new line cut and 1.6 hours per mile of snowplowing. All new lines that required cutting and cleaning were completed during this time so that no line cutting would be necessary after spring break-up.

Drilling

The Becker Hammer drills EMT-1 and 508 arrived in camp on March 21, 1968, and drilling operations were commenced on

March 22. The BMT-1 rig was operated with two shifts 24 hours a day while rig 508 was operated on a single shift basis in daylight hours. The drill program was suspended on March 26.

No known Paleozoic bedrocks were encountered in this area, however, some hard consolidated shales were cored near the centre of the prospect. These shales graded from dark gray to black and were encountered at depths between 35 to 50 feet. A very few of the holes were cut off at shallow depths where the drillers assumed they had struck bedrock, however, these locations were more probably areas where large boulders were encountered because of their random occurrences. Most of the holes contained sands and clays with a few rocks in the clay but no major gravel deposits were encountered generally over the area.

During the period March 22 to March 26 a total of 153 holes were drilled with the average depths being 50 feet in the north and 20 feet over the balance of the prospect. The drillers averaged 360 feet per hour on this prospect including setting up and moving time. No difficulties were encountered in completing holes except where boulders were encountered. In order to complete as much of the program as possible a minimum of time was spent drilling through these boulders.

Sampling

An average of 13 samples were taken per hole on the 50 foot holes and seven samples were taken on the 20 foot holes. Sampling rates for all holes were at two foot intervals to a depth of ten feet, and at five foot intervals from ten feet to the bottom of the hole. Clean representative samples were obtained from each hole.

Most holes started in sand or sandy brown clay. Very few problems were encountered in getting samples in any of these materials except in some of the water-soaked clays which appeared to stick to the sides of the drill stem and came out of the discharge hose in lengths of five to eight feet. Fortunately, very little of this material was encountered. Results of the assays, the majority of which were taken at the six foot depth, are contained in the back of this report.

Plugging

Holes were plugged with metal Trojan hole plugs or four foot wooden hole plugs in accordance with the required geophysical regulations.

Surveying

No vertical control was carried over the permit area, but horizontal control was maintained by chaining. A transit was used

to turn off angles for the new cut lines and to check angles at intersections of existing lines. Control was established from maps made from aerial surveys showing existing seismic cut lines identifiable topographic features on the ground.

Bore hole locations were permanently marked by blazing trees a few feet from the cut-line and marking the hole number on the tree with ink pens and metal tapes nailed to the tree. Thus each of the hole locations could be easily re-established for future references.

RESULTS & RECOMMENDATIONS

As this report is only a preliminary report no final conclusions can be drawn from the data until all work has been completed.

Because a second set of assays are required to complete the terms of the present project, it is recommended that a portion of the samples from each hole be batched from the ten foot to twenty foot depth and the mixed sample assayed to determine if increased sulphur values may occur at a greater depth.

At this point a decision could be made regarding doing additional assays in the areas of interest or possibly doing some detailed drilling programs in a few key areas once the crew can be moved back onto the prospect.

Respectfully submitted,



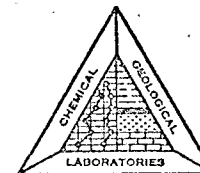
James D. Fowlie
Supervisor

Approved:



W. N. Rabey, P. Eng.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



OPERATOR: Sigma Explorations Ltd.

REPORT NUMBER: C68-3563

Attention: Mr. L. Marjanen of The British American Oil Company Limited

KIND OF SAMPLE: Soils

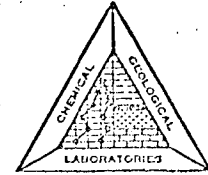
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DATE REPORTED April 24, 1968

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>	<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>
24-1-100	6	1.94	24-1-118	6	Trace
24-1-101	8	0.84	24-1-119	6	0.40
24-1-102	6	1.88	24-1-120	6	Trace
24-1-103	6	0.75	24-1-121	6	Trace
24-1-104	6	Trace	24-1-122	6	0.48
24-1-105	6	Trace	24-1-123	6	1.71
24-1-106	6	Trace	24-1-124	6	Trace
24-1-107	6	0.92	24-2-1	6	Trace
24-1-108	6	0.74	24-2-2	6	0.17
24-1-109	6	1.43	24-2-3	6	Trace
24-1-110	6	2.47	24-2-4	6	1.00
24-1-111	6	Trace	24-2-5	6	0.28
24-1-112	6	0.74	24-2-6	6	Trace
24-1-113	6	2.17	24-2-7	6	2.03
24-1-114	6	0.32	24-2-8	6	0.46
24-1-115	6	0.31	24-2-9	6	1.09
24-1-116	6	2.39	24-2-10	6	Trace
24-1-117	6	0.47	24-2-11	6	2.69

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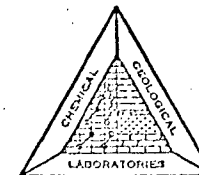
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24-2-12	6	Trace	24-2-29	6	2.25
24-2-13	6	1.61	24-3-300	6	1.35
24-2-14	6	0.62	24-3-301	6	0.34
24-2-15	6	1.32	24-3-302	6	2.06
24-2-16	6	0.42	24-3-303	5	1.27
24-2-17	6	1.03	24-3-304	4	2.18
24-2-18	6	0.69	24-3-305	6	1.02
24-2-19	6	Trace	24-3-306	4	0.16
24-2-20	6	0.23	24-3-308	6	2.19
24-2-21	6	1.10	24-3-309	6	Trace
24-2-22	6	1.48	24-3-310	6	0.80
24-2-23	6	1.65	24-3-311	6	0.54
24-2-24	6	Trace	24-3-312	6	0.54
24-2-25	6	0.73	24-3-313	6	1.81
24-2-26	6	1.69	24-3-314	6	Trace
24-2-27	6	0.64	24-3-315	6	0.49
24-2-28	6	2.90	24-3-316	6	0.68

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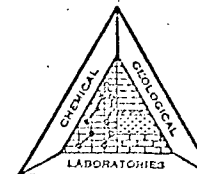
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24-3-317	6	Trace	24-3-334	6	Trace
24-3-318	6	0.66	24-3-335	6	0.90
24-3-319	6	0.65	24-3-336	6	0.40
24-3-320	6	2.39	24-3-337	6	Trace
24-3-321	6	1.21	24-3-338	6	2.13
24-3-322	6	0.53	24-3-339	6	0.60
24-3-323	6	2.09	24-3-340	6	1.50
24-3-324	6	0.74	24-3-341	6	Trace
24-3-325	6	Trace	24-3-342	6	0.40
24-3-326	6	1.12	24-3-343	6	0.87
24-3-327	6	0.18	24-3-344	6	0.44
24-3-328	6	0.66	24-3-345	6	Trace
24-3-329	6	0.64	24-3-346	6	Trace
24-3-330	6	Trace	24-3-347	6	0.46
24-3-331	6	Trace	24-3-348	6	0.80
24-3-332	6	2.04	24-3-349	6	0.30
24-3-333	6	0.75	24-3-350	6	Trace

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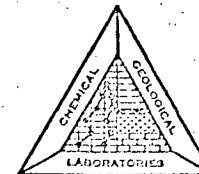
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24-4-400	6	Trace	24-6-611	6	1.58
24-4-401	6	2.43	24-6-612	6	0.76
24-4-402	6	1.27	24-6-613	6	2.33
24-4-403	6	1.03	24-6-614	6	1.48
24-4-404	6	Trace	24-6-615	6	0.62
24-4-405	6	Trace	24-6-616	6	0.86
24-6-600	6	1.80	24-6-617	6	1.23
24-6-601	6	1.21	24-6-618	6	1.53
24-6-602	6	1.55	24-6-619	6	0.55
24-6-603	6	Trace	24-7-700	6	Trace
24-6-604	6	0.90	24-7-701	6	1.79
24-6-605	6	Trace	24-7-702	6	1.87
24-6-606	6	Trace	24-7-703	6	1.81
24-6-607	6	1.05	24-7-704	6	1.91
24-6-608	6	0.48	24-7-705	6	Trace
24-6-609	6	Trace	24-7-706	6	2.67
24-6-610	6	Trace	24-7-707	No Sample	

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KIND OF SAMPLE: Soils

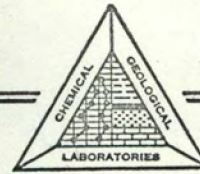
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24-7-708		0.42	24-7-715	6	1.29
24-7-709	25	0.98	24-7-716	4	Trace
24-7-710	6	2.28	24-7-717	6	0.51
24-7-711	6	0.43	24-7-718	6	3.16
24-7-712	10	1.69	24-7-719	6	1.73
24-7-713	4	Trace	24-7-720	4	0.65
24-7-714	6	0.60	24-7-721	6	2.00

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

14240-115 AVENUE, EDMONTON, ALBERTA



Date Reported: May 16, 1968

Laboratory Report Number: C68-3602

SIGMA EXPLORATIONS LTD.

for The British American Oil Company Limited

Kind of Sample: Soil

Permit No.: 24

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>
24-1-100	10, 15	Trace
24-1-101	15, 25	1.87
24-1-102	10, 15, 20	0.24
24-1-103	10, 15, 20	0.56
24-2-1	10, 15, 20	2.01
24-2-2	10	2.60
24-2-3	10, 15, 20	2.85
24-2-4	"	2.12
24-2-5	"	0.71
24-2-6	"	1.27
24-2-21	10, 15, 20	Trace
24-2-22	"	2.07
24-2-23	"	0.35
24-2-24	"	0.45
24-2-25	"	1.13

continued.....

Sigma Explorations Ltd.

Laboratory Report Number: C68-3602

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>
24-7-700	10, 15, 20	Trace
24-7-701	"	2.31
24-7-702	"	Trace
24-7-703	"	2.15
24-7-704	"	1.37
24-7-705	"	2.03
24-7-706	"	1.17
24-7-708	35	1.93
24-7-709	25	0.10
24-4-400	10, 15, 20	3.04
24-4-401	"	1.63
24-4-402	"	Trace
24-4-403	"	2.02
24-4-404	"	Trace
24-4-405	"	0.45
24-6-600	10, 15, 20	1.05
24-6-601	"	0.83
24-6-602	"	0.72
24-6-603	"	1.21
24-6-604	"	Trace
24-6-605	"	1.46
24-6-606	"	Trace
24-6-607	"	Trace
24-1-104	10, 15, 20	0.86
24-1-105	10, 15	2.48

continued.....

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Laboratory Report Number: C68-3602

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>
24-3-346	10, 15, 20	1.83
24-3-347	"	1.35
24-3-348	"	2.30
24-3-349	"	Trace
24-3-350	"	1.43
24-6-615	10, 15, 20	1.26
24-6-616	10, 15	2.71
24-6-617	10, 12	0.68
24-6-618	10, 15, 20	0.67
24-6-619	"	0.68
24-7-718	10, 15	0.55
24-7-719	"	0.29
24-7-720	10	1.31
24-7-721	10, 20	0.28
24-3-341	10, 15, 20	1.27
24-3-342	"	0.63
24-3-343	"	0.34
24-3-344	"	Trace
24-3-345	"	0.30
24-1-113	10, 15, 20	0.10
24-1-114	"	0.90
24-1-115	"	0.70
24-1-116	"	0.69
24-3-325	10, 15, 20	0.59
24-3-326	"	Trace

continued.....

Sigma Explorations Ltd.

Laboratory Report Number: C68-3602

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>
24-3-327	10, 15, 20	1.22
24-3-328	"	0.66
24-3-329	"	1.32
24-3-330	"	0.55
24-3-331	"	1.91
24-3-332	"	0.73
24-2-26	10, 15, 20	2.18
24-2-28	"	1.21
24-2-29	"	1.71
24-1-106	10, 15, 20	Trace
24-1-107	10, 20	1.67
24-1-108	10, 20	0.80
24-3-300	10, 15, 20	1.16
24-3-301	15, 20	0.41
24-3-302	10, 15, 20	1.27
24-3-303	10, 15	0.30
24-3-304	15, 20	0.40
24-3-305	10, 20	1.52
24-3-306	10, 15, 20	1.03
24-3-308	"	1.57
24-3-309	"	0.43
24-3-310	10, 15	1.21
24-3-311	10, 15, 20	0.36
24-3-312	10, 15	0.65
24-3-313	10-15	1.87

continued.....

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Laboratory Report Number: C68-3602

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>
24-3-315	10	Trace
24-2-15	10, 15, 20	0.37
24-2-17	10, 11	Trace
24-2-18	10, 15, 20	0.73
24-2-19	"	1.52
24-2-20	10, 20	Trace
24-3-316	10, 15, 20	Trace
24-3-317	10, 20	0.97
24-3-318	10, 15, 20	1.16
24-3-319	"	Trace
24-3-320	"	0.84
24-3-322	"	1.74
24-3-323	"	1.33
24-3-324	"	Trace
24-7-715	10, 15, 20	Trace
24-7-716	25	0.92
24-7-717	10, 15, 20	1.47
24-1-117	10, 15, 20	1.43
24-1-118	"	Trace
24-1-119	"	1.08
24-1-120	"	1.33
24-1-121	"	1.71
24-1-122	"	0.72
24-1-123	"	1.19
24-1-124	"	2.82

continued.....

Sigma Explorations Ltd.

Laboratory Report Number: C68-3602

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>
24-2-10	10, 15, 20	1.90
24-2-11	"	1.70
24-2-12	"	2.11
24-2-13	"	1.74
24-2-14	"	Trace
24-7-710	10, 15, 20	1.79
24-7-711	"	1.07
24-7-712	"	1.19
24-7-713	"	0.39
24-7-713	"	1.30
24-3-333	10, 15, 20	1.10
24-3-334	"	1.01
24-3-335	"	0.47
24-3-336	"	1.07
24-3-337	"	0.39
24-3-338	"	2.17
24-3-339	"	Trace
24-3-340	"	1.40
24-6-608	10, 15, 20	0.34
24-6-609	"	1.20
24-6-610	"	Trace
24-1-109	10, 15	1.85
24-1-110	10, 20, 15	0.32
24-1-111	10, 15, 20	1.14
24-6-611	10, 15, 20	Trace
24-6-612	"	0.20

continued.....

Sigma Explorations Ltd.

Laboratory Report Number: C68-3602

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight)</u>
24-6-613	10, 15, 20	Trace
24-6-614	"	Trace
24-2-7	10, 15, 20	0.20
24-2-8	"	0.29
24-2-9	"	0.56

Sample Numbers 24-2-16, 24-2-27, 24-3-314, and 24-3-321 do not have samples above 6' depth, hence not analyzed.

19680039

SULPHUR PROSPECTING PERMIT NO. 24

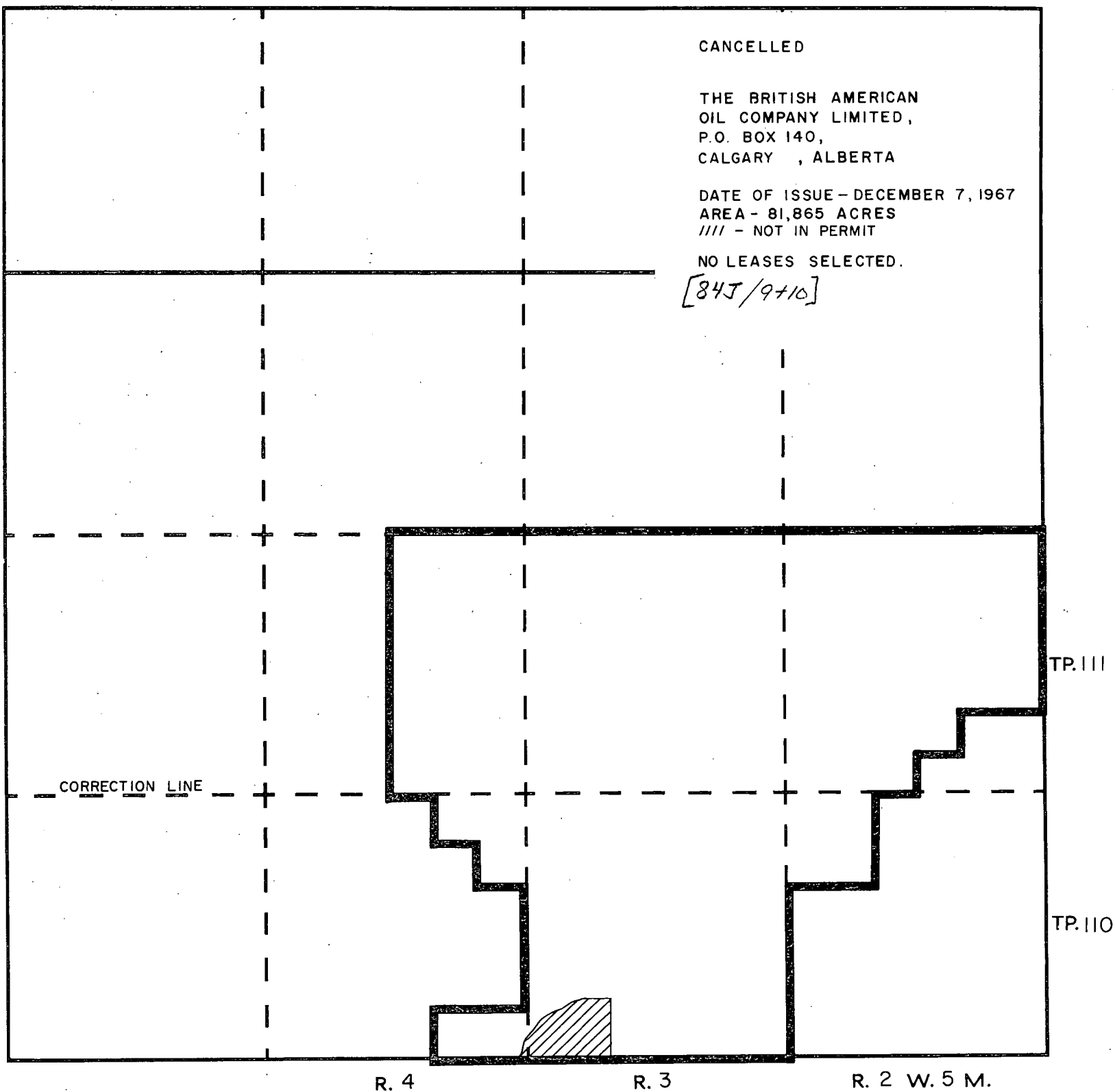
CANCELLED

THE BRITISH AMERICAN
OIL COMPANY LIMITED,
P.O. BOX 140,
CALGARY , ALBERTA

DATE OF ISSUE - DECEMBER 7, 1967
AREA - 81,865 ACRES
/// - NOT IN PERMIT

NO LEASES SELECTED.

[84J/9+10]



Rge. 4

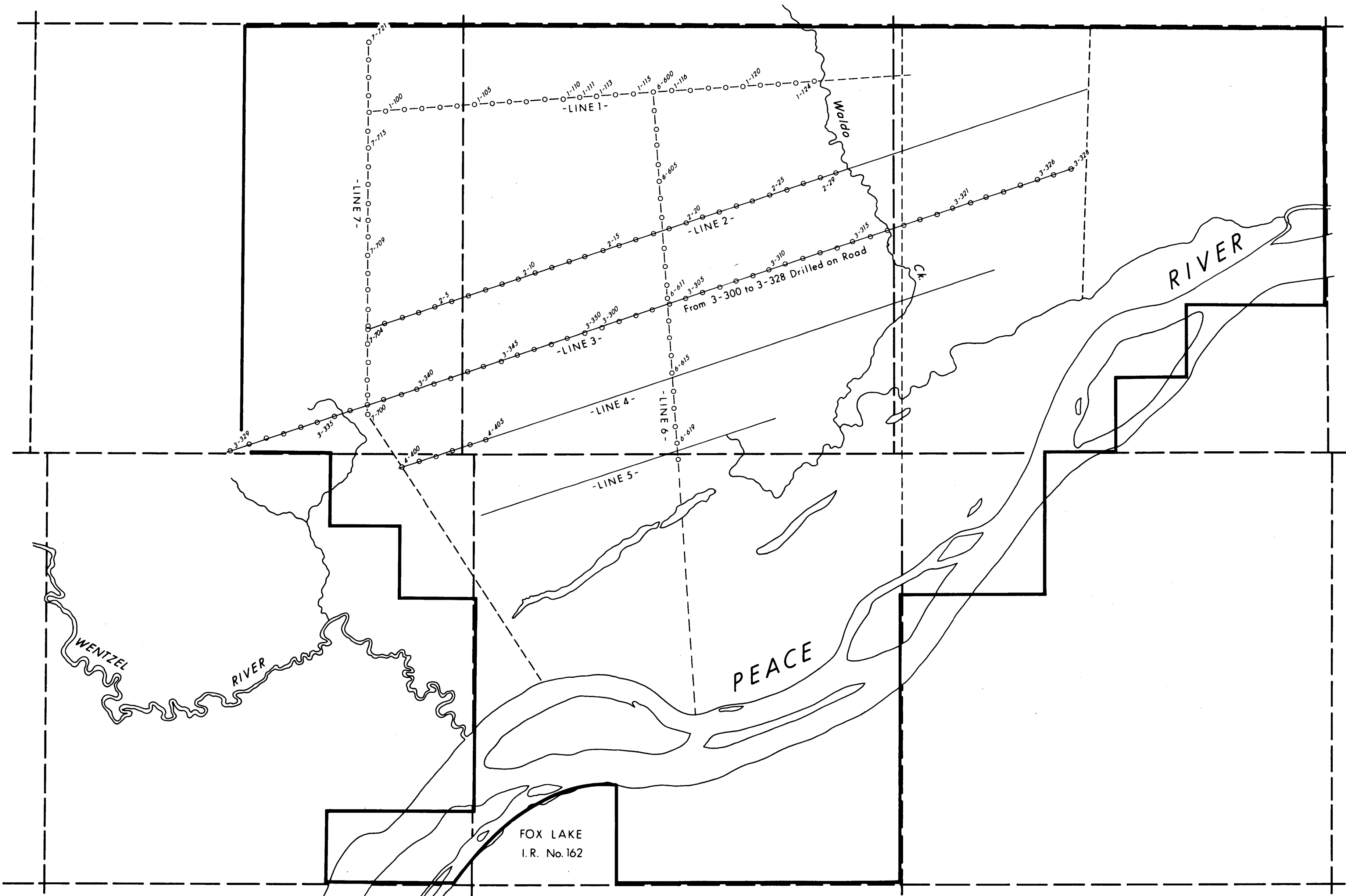
Rge. 3

Rge. 2






W.5M.

Twp. 111

Twp. 110



LEGEND

-  PERMIT OUTLINE
-  NEW LINE CUT & DRILLED
-  EXISTING LINE DRILLED
-  EXISTING ACCESS LINES
-  LINES CLEANED BUT NOT DRILLED

SIGMA EXPLORATIONS LTD.
 309 8th Ave. SW Calgary, Alberta Phone 264-7885

SULPHUR EXPLORATION PROGRAM
PERMIT No. 24

SCALE: 1" = 1 Mile MARCH/1968

19680039
Map No. 1

Rge. 4

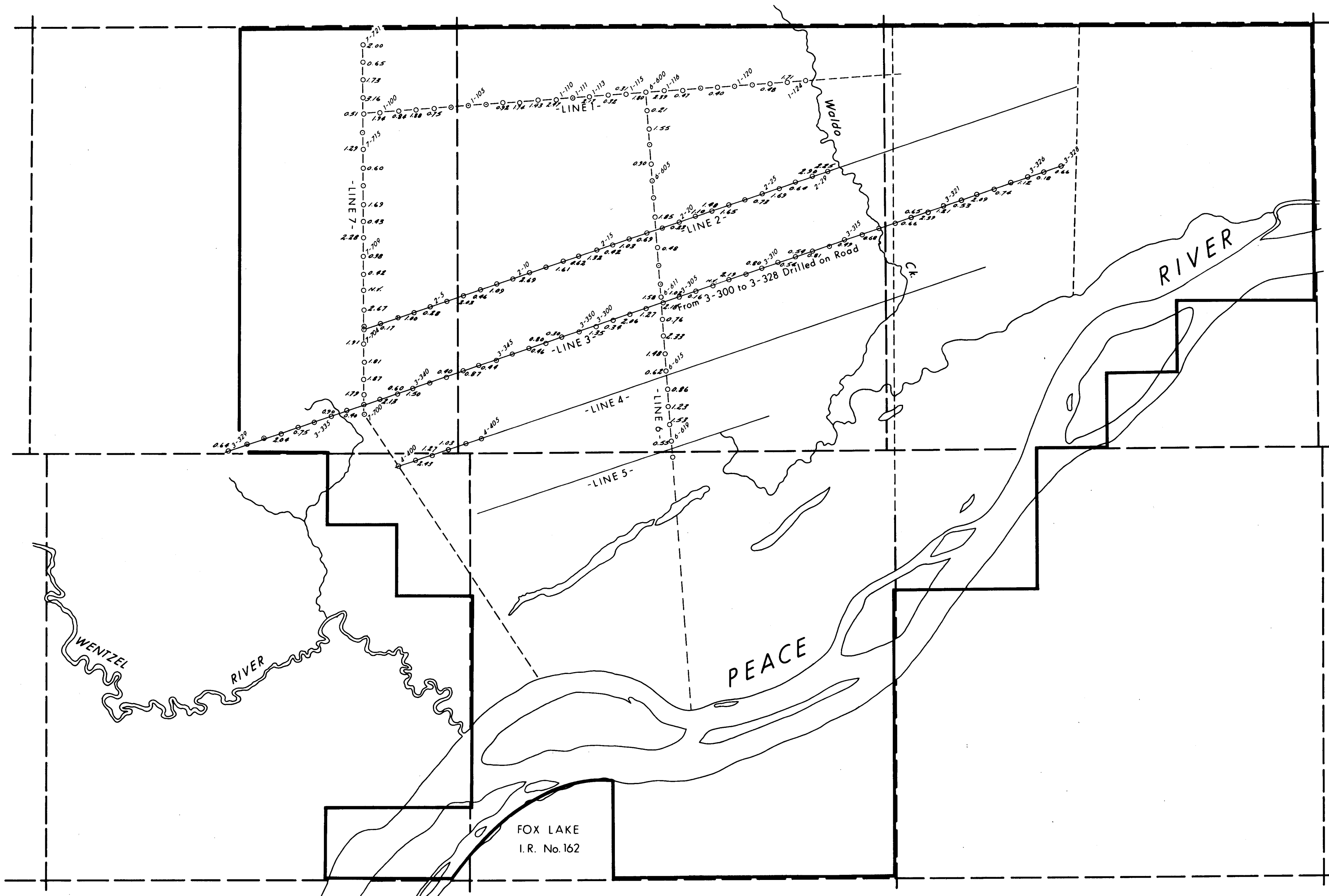
Rge. 3

Rge. 2





W.5M.

Twp. 111

Twp. 110



LEGEND

-  PERMIT OUTLINE
-  NEW LINE CUT & DRILLED
-  EXISTING LINE DRILLED
-  EXISTING ACCESS LINES

o Samples Showing only Traces of Sulphur

SIGMA EXPLORATIONS LTD.
 309 8th Ave. SW. Calgary, Alberta Phone 264-7865

SULPHUR EXPLORATION PROGRAM
PERMIT No. 24
 % SULPHUR at 6 FOOT LEVEL
 SCALE: 1" = 1 Mile MARCH/1968

17680039
Map No. 2