

MAR 19680081: FOGGY MOUNTAIN

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19680081

ECONOMIC MINERALS
FIELD REPORT No.
S-AF-085(2)
S-AF-113(2)

REPORT ON FIELD WORK

OF CORE DRILLING

IN THE

FOGGY MOUNTAIN SULPHUR PROSPECT AREA

OF

ALBERTA, CANADA

FOR

GREAT SLAVE MINES LTD. (N. P. L.)

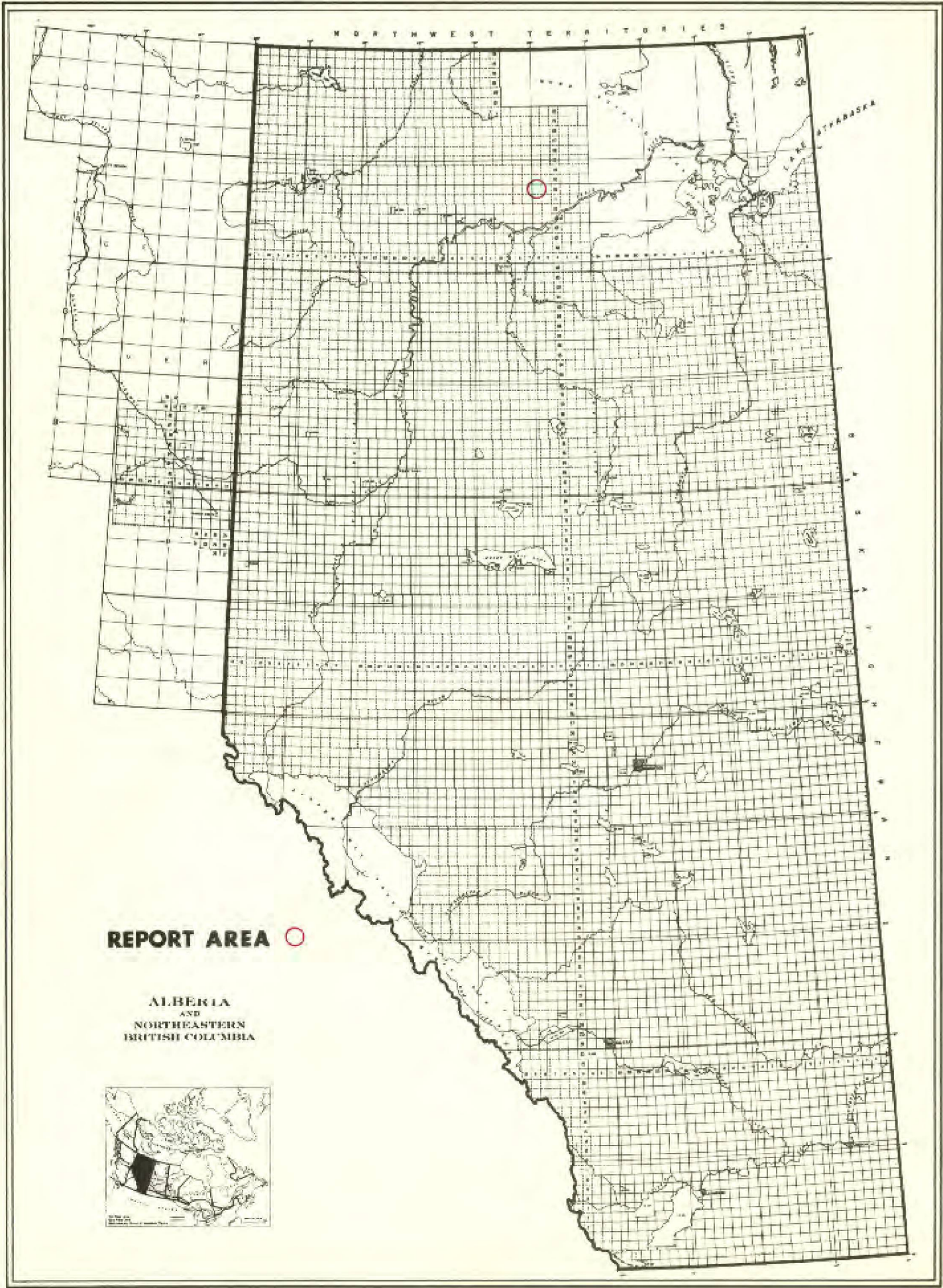
BY

SIGMA EXPLORATIONS LTD.

PROJECT NO. 85

Calgary, Alberta, Canada

September 1968



REPORT AREA ○

**ALBERTA
AND
NORTHEASTERN
BRITISH COLUMBIA**



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LOCATION OF AREA

Sulphur permit 85 is located in northern Alberta, Twp. 112 Rge. 6 & 7 W.5M, approximately 35 miles west of Wood Buffalo National Park and 20 miles north of the Peace River.

Topography

Permit 85 is located on the south slope of the Cariboo Mountains north of the Peace River. Elevations across the permit area vary from 3100 feet in the north to 1700 feet in the south west providing some 1400 feet of relief across the permit. No severe elevation changes were encountered along the survey line.

The general drainage pattern is toward the southwest and southeast. The Lawrence River and its tributary streams drain the west portion of the permit area while in the east all drainage is into the Wentzel River.

Forest cover throughout most of the prospect area graded from very light to medium with some heavy stands of spruce occurring near the main creeks and rivers. Near the top of the Cariboo Mountains the area is covered with small stunted spruce and tamarack, while the southern slopes graded into heavier spruce, willow and some poplar. No timber of commercial size or quality was noted in the area.

Access

Access to the area was gained by a road running east from High Level to Jean D'Or Prairie Indian Reserve and on across the Lawrence River. A bridge constructed by Imperial Oil Limited and the Swanson Lumber Company allows passage across the river. From this point a Forestry road into the Foggy Mountain Tower was utilized, however, this road was badly eroded by spring streams and could only be travelled by tracked vehicle. All camp supplies had to be trucked to the Lawrence River by a four-wheel drive power wagon and from there transported onward by Nodwell tracked vehicle.

A small airstrip is located right at the Foggy Mountain Tower but was unserviceable during the entire time the crew worked in the area because of heavy rainfall. Thus it was only possible to make air drops of essential items at the airstrip but no landings or takeoffs were possible.

Weather

The weather conditions encountered during the field operations were extremely wet with some six and one-half inches of rainfall being recorded during the 15 days the crew worked in the area. Thus extreme difficulty was encountered by men and equipment travelling on roads and trails during this time, and great care had to be taken at all river and creek crossings to insure the safety of men and machines in the swift moving water.

Severe erosion conditions existed on all roads which provided additional difficulty in moving into the permit area. Day time temperatures averaged 50°F to 60°F during the survey combined with severe rain falls and low fog conditions.

FIELD OPERATIONS

Field operations were commenced on the permit on July 16, 1968, and were completed July 18, 1968. During this period a total of 16 drill holes were cored along existing cut line. One other exploration program was done by the crew and equipment in the same general area during the early part of July and thus the cost of moving the camp and equipment to Foggy Mountain and return was proportionately divided between the operating companies.

Drilling

Drilling was carried out using a General Model GT30 powered hand auger as well as one conventional manual hand auger.

These drills were equipped with additional sectioned drill stem which made it possible to extend the holes down to a maximum depth of 12 feet in certain areas.

Unfortunately it was not possible to complete any of the holes down to total depth because of the presence of permafrost in the area. This permafrost condition was found to exist over the entire area of the prospect and made drilling below the top of the frost line impossible. Thus only the frost-free section of the near surface could be drilled and sampled.

Sampling

An average of two samples were taken per hole at average depths of three feet and the bottom of the hole. The samples were batched and an average representative sample was collected and marked at each interval. As permafrost conditions were encountered the sample interval was altered to adjust for this condition and the first sample was taken at approximately three feet and the bottom sample taken at the top of the permafrost. No problems were incurred in getting any samples in any of the holes and good clean representative samples were obtained for all locations.

Plugging

Holes were plugged with wooden hole plugs after drilling to prevent accidents to the workmen while walking up and down the cust lines, or to any wild animals which may stray onto the drill locations later.

Surveying

No vertical control was carried over the permit area, but horizontal control was maintained by chaining. Control was established from maps made from aerial surveys showing existing seismic cut lines or 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 of 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 reference.

RESULTS & RECOMMENDATIONS

As per our Agreement all samples recovered in this permit area were inventoried and sent to Chemical & Geological Laboratories Limited for storage, and eventual assay, as per your instructions. Because the results of this assay are not available to this office for study at this time, no recommendation can be made in this report.

Respectfully submitted,


James D. Fowlie
Supervisor

Approved:


W. N. Rabey, P. Eng.

LIST OF SHOT POINT LOCATIONS
AND
SAMPLE DEPTHS ON
SULPHUR PERMIT NUMBER 85

	<u>Hole Location</u>	<u>Number of Samples</u>	<u>Depth</u>
1.	85-1-1	2	4', 6'
2.	85-1-2	2	3', 5'
3.	85-1-3	2	3', 4'
4.	85-1-4	1	3'
5.	85-1-5	2	3', 4'
6.	85-1-6	2	2', 4'
7.	85-1-7	1	4'
8.	85-1-8	2	3', 4'
9.	85-1-9	2	2', 4'
10.	85-1-10	2	4', 6'
11.	85-1-11	2	5', 7'
12.	85-1-12	2	2', 3'
13.	85-1-13	2	4', 6'
14.	85-1-14	2	2', 4'
15.	85-1-15	2	4', 6'
16.	85-1-16	2	4', 6'

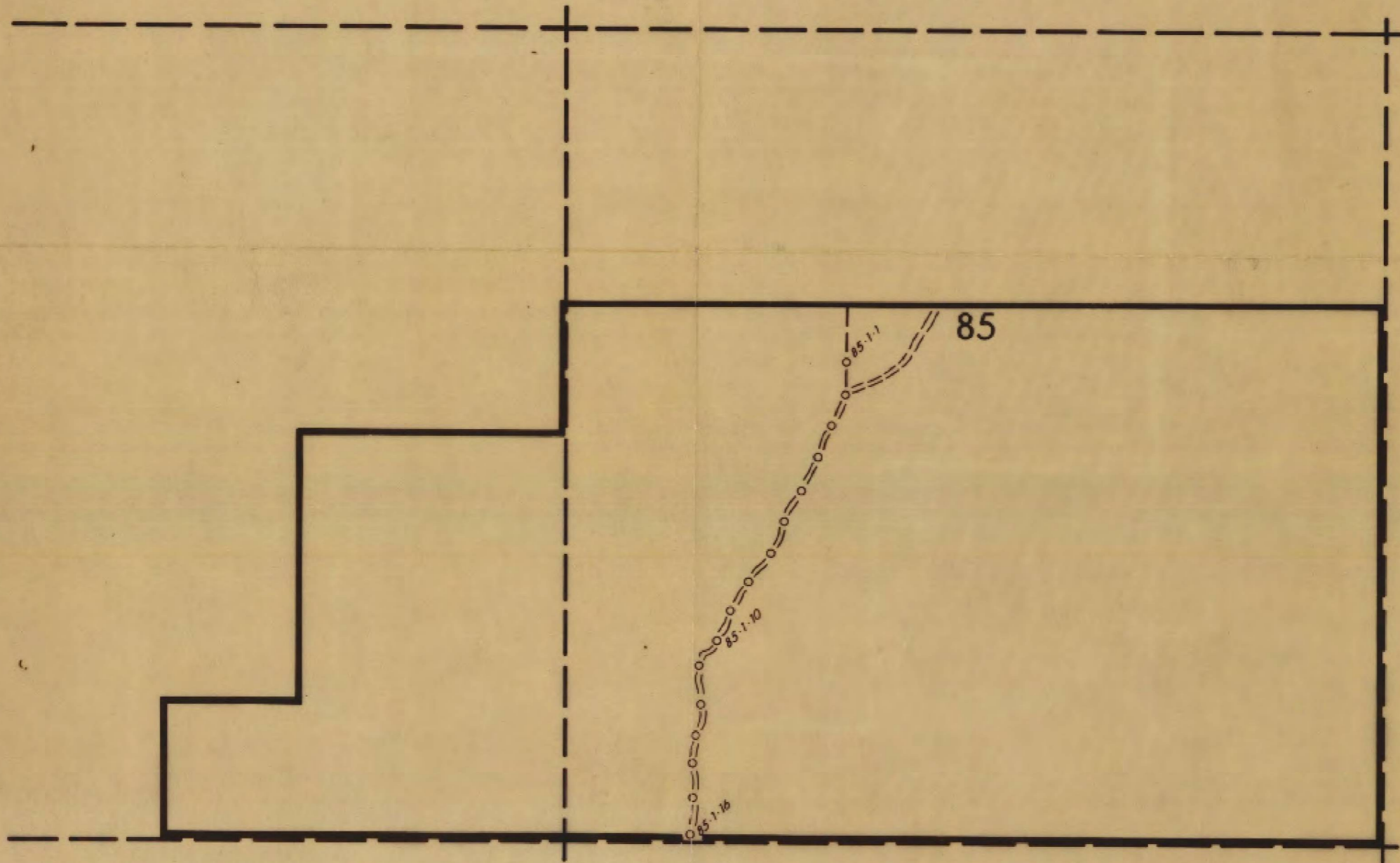
1

Rge. 7



Rge. 6


W.5M.

Twp.
112



LEGEND

-  PERMIT OUTLINE
-  EXISTING LINE DRILLED

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SULPHUR EXPLORATION PROGRAM
PERMIT No. 85

SCALE: 1" = 1 Mile

AUGUST/1968

1800801
 2-AE-08 (S)
 2-AE-113 (S)

1800801
 Map No. 1