

MAR 19680092: FORT VERMILION

Received date: Dec 31, 1968

Public release date: Jan 01, 1970

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RESULTS OF AUGER SAMPLING PROGRAM
SINCLAIR SULPHUR PROSPECTING
PERMITS NOS. 100 TO 104 INCLUSIVE
FORT VERMILION AREA, ALBERTA

Prepared For
Sinclair Canada Oil Company
December, ~~1967~~

1968 19680092

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ECONOMIC MINERALS

FILE REPORT No.

S-AF-100(3)

S-AF-101(3)

S-AF-102(3)

S-AF-103(3)

S-AF-104(3)

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SINCLAIR SULPHUR PROSPECTING

PERMITS NOS. 100 TO 104 INCLUSIVE

FORT VERMILION AREA, ALBERTA

Prepared For

Sinclair Canada Oil Company

December, 1968

J. C. SPROULE AND ASSOCIATES LTD.

OIL AND GAS ENGINEERING AND GEOLOGICAL CONSULTANTS

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RESULTS OF AUGER SAMPLING PROGRAM

SINCLAIR SULPHUR PROSPECTING

PERMITS NOS. 100 TO 104 INCLUSIVE

FORT VERMILION AREA, ALBERTA

SUMMARY


We submit herewith the results of an auger test sampling program conducted by J. C. Sproule and Associates Ltd. at the request of Mr. Stan Paskevitch of Sinclair Canada Oil Company and authorized by letter of agreement signed October 16, 1968.

Owing to the inclement weather due to the lateness of the season, only a portion of the planned work was completed in order not to exceed the agreed maximum total allowable expenditure for the project but the field program did include work on all permits. The program was terminated when the major expense estimate of 40 hours helicopter time was reached.

The hand auger test sampling was done between October 19 and November 7, 1968, under the direction of Norman Soul, P. Geol. The locations of the holes, drilled approximately one-quarter mile apart along seismic cut lines, are shown on the accompanying permit maps. Each hole was drilled to a depth of six feet, except where this was not possible due to the presence of dry sand, gravel or boulders.

The samples from each hole were submitted to Chemical & Geological Laboratories Ltd., Calgary, for analysis of sulphur content. They reported elemental sulphur as percentage by weight on dry sample. On each permit map, the sulphur content of each hole with more than a trace is indicated. The sulphur assay reports from Chemical & Geological Laboratories Ltd. accompany the present report as appendices.

1009 Fourth Avenue S. W.,
Calgary 2, Alberta.
December 2, 1968.
NS/fc


Norman Soul, P. Geol.

SULPHUR PROSPECTING PERMIT NO. 100

LINE NO. 1: Line bearing approximately 340° from point in Lsd. 16-36-113-2
W. 5 M.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 16-36-113-2 W.5	100-1-1	3 6	Trace Trace	Brown clay Brown clay
2	Lsd. 1-1-114-2 W.5	100-1-2	3 6	Trace Trace	
3	Lsd. 8-1-114-2 W.5	100-1-3	3 6	Trace Trace	

LINE NO. 2: Line bearing 270° from intersection with Line No. 1, in Lsd.
7-1-114-2 W. 5 M.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 6-1-114-2 W.5	100-2-1	3 6	Trace Trace	Sandy clay Sandy clay
2	Lsd. 5-1-114-2 W.5	100-2-2	3 6	Trace Trace	Sandy clay Sandy clay
3	Lsd. 5-1-114-2 W.5	100-2-3	3 6	Trace Trace	Sandy clay Sandy clay
4	Lsd. 8-2-114-2 W.5 Apparently off Permit	100-2-4	3 6	Trace Trace	Dry clay Dry clay

SULPHUR PROSPECTING PERMIT NO. 101

LINE NO. 1: Line runs northeast and east from east end of original Buffalo Forestry Tower airstrip situated in Section 23, Township 102, Range 15, W. 5 M. Line overgrown and difficult to follow.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 12-24-103-14 W.5 North side of small draw below small outcrop of cross-bedded Dunvegan sandstone.	101-1-1	3 6	Trace Trace	Sandy clay Sandy clay
2	Lsd. 13-24-103-14 W.5	101-1-2	3 6	Trace Trace	Sandy clay Sandy clay
3	Lsd. 11-24-103-14 W.5 South side of small dry creek valley, 400 feet southeast of bend in line from northeast to southeast.				No sample. Lost bit.

LINE NO. 2: Line runs northwest from a point in N.W. 1/4 Section 34, Township 103, Range 13, W. 5 M. Most of the line is poorly defined and overgrown.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 16-33-103-13 W.5 West edge of muskeg, 650 feet northwest from line junction.	101-2-1	3 6	Trace Trace	
2	Lsd. 2-4-104-13 W.5 West side of small dry creek valley.	101-2-2	3 6	Trace Trace	
3	Lsd. 3-4-104-13 W.5 Small meadow, 1,400 feet northwest of Hole No. 2	101-2-3	3 6	Trace Trace	
4	Lsd. 4-4-104-13 W.5 Muskeg, 1,750 feet northwest of Hole No. 3.	101-2-4	3 6	Trace Trace	

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
5	Lsd. 8-5-104-13 W.5 1,800 feet northwest of Hole No. 4	101-2-5	3 6	Trace Trace	
6	Lsd. 10-5-104-13 W.5 Edge of muskeg, 1,750 feet northwest of Hole No. 5.	101-2-6	3 6	Trace 1.48%	

LINE NO. 3: Line runs easterly through south halves of Sections 29 and 28,
Township 103, Range 13, W. 5 M.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 1-29-103-13 W.5 1,500 feet east of west end of line.	101-3-1	3 6	Trace Trace	
2	Lsd. 2-29-103-13 W.5 Weathered Cretaceous shale outcrop at west end of line.	101-3-2	3 6	Trace Trace	Shale Shale
3	Lsd. 4-28-103-13 W.5 1,500 feet east of Hole No. 1.	101-3-3	3 6	Trace Trace	Clay Clay
4	Lsd. 3-28-103-13 W.5 East side of small dry creek valley.	101-3-4	3 6	Trace Trace	
5	Lsd. 3-28-103-13 W.5 West side of poplar- birch flat on west side of creek with Cretaceous shale outcrops.	101-3-5	3	Trace	Shale gravel. Poor sample.
6	Lsd. 2-28-103-13 W.5 Top of ridge, 1/4 mile east of creek.	101-3-6	3 6	Trace Trace	Dry clay Dry clay
7	Lsd. 1-28-103-13 W.5 Top of ridge, 400 feet east of small dry creek valley.	101-3-7	3 5	Trace Trace	Dry clay Dry clay

LINE NO. 4: Line runs south and southeast from point on creek in S.E. 1/4 Section 19, Township 103, Range 13, W. 5 M. The line could not be followed beyond Hole No. 3 due to extensive mud slides.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 1-19-103-13 W.5 East side of creek.	101-4-1	3	Trace	Alluvium. Hit boulders at 3 feet.
2	Lsd. 9-18-103-13 W.5 Small flat on hill- side; 1,450 feet south of Hole No. 1.	101-4-2	3 5	Trace Trace	
3	Lsd. 8-18-103-13 W.5 West side of small muddy creek; 1,800 feet southwest of Hole No. 2.	101-4-3	3	Trace	Alluvium. Hit boulders

SULPHUR PROSPECTING PERMIT NO. 102

LINE NO. 1: Line runs from intersection on east side of Section 25, Township 97, Range 10, W. 5 M., south through Sections 24 and 13. Line is in good condition.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 1-25-97-10 W.5	102-1-1	3 5	Trace Trace	
2	Lsd. 16-24-97-10 W.5	102-1-2	3 6	Trace Trace	
3	Lsd. 9-24-97-10 W.5 south side of large unnamed creek	102-1-3	3 6	Trace Trace	
4	Lsd. 8-24-97-10 W.5	102-1-4	6	Trace	
5	Lsd. 1-24-97-10 W.5	102-1-5	3 6	Trace Trace	
6	Lsd. 16-13-97-10 W.5	102-1-6	3 6	Trace 0.77%	
7	Lsd. 9-13-97-10 W.5	102-1-7	3 6	Trace Trace	
8	Lsd. 8-13-97-10 W.5	102-1-8	3 6	Trace Trace	
9	Lsd. 1-13-97-10 W.5	102-1-9	3 6	Trace Trace	
10	Lsd. 8-25-97-10 W.5	102-1-10	3 6	Trace Trace	

LINE NO. 2: Line runs easterly from intersection on east side of Section 25, Township 97, Range 10, W. 5 M. (Hole No. 10, Line No. 1).

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 5-30-97-9 W.5	102-2-1	3 6	Trace 7.26%	
2	Lsd. 6-30-97-9 W.5	102-2-2	3 6	7.76% Trace	Yellowish brown clay Yellowish brown clay

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
3	Lsd. 7-30-97-9 W.5	102-2-3	3 6	Trace Trace	Yellowish brown clay Yellowish brown clay
4	Lsd. 4-29-97-9 W.5	102-2-4	3 6	Trace Trace	
5	Lsd. 3-29-97-9 W.5	102-2-5	3 6	Trace Trace	
6	Lsd. 2-29-97-9 W.5	102-2-6	3 6	Trace Trace	
7	Lsd. 16-20-97-9 W.5	102-2-7	3 6	Trace 2.99%	
8	Lsd. 13-21-97-9 W.5 Line changes direction from southeast to northeast	102-2-8	3	Trace	Boulders at 3 feet
9	Lsd. 14-21-97-9 W.5	102-2-9	3 6	Trace Trace	
10	Lsd. 15-21-97-9 W.5	102-2-10	3 5	Trace Trace	
11	Lsd. 16-21-97-9 W.5	102-2-11	3 6	13.42% Trace	
12	Lsd. 4-27-97-9 W.5 Apparently outside of Permit	102-2-12	3 6	7.19% Trace	
13	Lsd. 3-27-97-9 W.5 Apparently outside of Permit, west edge of big spruce timber	102-2-13	3 6	No analysis Trace	

LINE NO. 3: Line runs northwesterly from intersection on east side of Section 25, Township 97, Range 10, W. 5 M. (Hole No. 10, Line No. 1).

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 9-25-97-10 W.5	102-3-1	3 6	Trace Trace	Black muck Black clay

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
2	Lsd. 16-25-97-10 W.5	102-3-2	3 6	Trace Trace	Brown clay Brown clay
3	Lsd. 1-36-97-10 W.5	102-3-3	3 5	0.19% 0.24%	Gravel at one foot
4	Lsd. 7-36-97-10 W.5	102-3-4	3	Trace	Gravel at one foot, boulders at three feet, scattered boulders at surface
5	Lsd. 10-35-97-10 W.5	102-3-5	3 5	Trace Trace	
6	Lsd. 14-36-97-10 W.5	102-3-6	3	Trace	Boulders at 3 feet in two holes.
7	Lsd. 3-1-98-10 W.5	102-3-7	3 6	Trace Trace	
8	Lsd. 8-2-98-10 W.5	102-3-8	3 6	Trace Trace	
9	Lsd. 7-2-98-10 W.5	102-3-9	3 6	Trace Trace	
10	Lsd. 7-2-98-10 W.5	102-3-10	3 6	Trace Trace	
11	Lsd. 11-2-98-10 W.5	102-3-11	3	Trace	
12	Lsd. 12-2-98-10 W.5	102-3-12	3 6	Trace Trace	
13	Lsd. 9-3-98-10 W.5	102-3-13	3 6	Trace Trace	
14	Lsd. 11-3-98-10 W.5	102-3-14	3 6	Trace Trace	
15	Lsd. 13-3-98-10 W.5	102-3-15	3 6	Trace Trace	

SULPHUR PROSPECTING PERMIT NO. 103

LINE NO. 1: Line bearing approximately 275° immediately north of 27th Base Line in Sections 1, 2 and 3, Township 105, Range 10, W. 5 M.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 2-1-105-10 W.5 Muskeg.	103-1-1	3	Trace	
			6	Trace	
2	Lsd. 3-1-105-10 W.5	103-1-2	3	Trace	Yellowish brown sand - alluvium.
			6	Trace	Yellowish brown sand - alluvium.
3	Lsd. 4-1-105-10 W.5	103-1-3	3	Trace	Sand
			6	Trace	Sand
4	Lsd. 1-2-105-10 W.5	103-1-4	3	Trace	Sand
			6	Trace	Sand
5	Lsd. 2-2-105-10 W.5	103-1-5	3	0.93%	Decayed vegetation
			6	Trace	Sand
6	Lsd. 3-2-105-10 W.5	103-1-6	3	Trace	Sand
			6	Trace	Sand
7	Lsd. 4-2-105-10 W.5	103-1-7	3	Trace	Sand
			6	Trace	Sand
8	Lsd. 1-3-105-10 W.5	103-1-8	3	Trace	Sandy clay
			6	Trace	Sandy clay
9	Lsd. 2-3-105-10 W.5	103-1-9	3	Trace	
			6	Trace	

LINE NO. 2: Line bearing approximately 160° from Hole No. 1, Line No. 1.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 15-36-104-10 W.5 Change in line direction	103-2-1	3	Trace	Brown sand
			6	Trace	Brown sand
2	Lsd. 16-36-104-10 W.5	103-2-2	3	Trace	Brown sand
			6	Trace	Brown sand
3	Lsd. 13-31-104-9 W.5	103-2-3	3	Trace	Brown sand
			6	Trace	Brown clay
4	Lsd. 14-31-104-9 W.5	103-2-4	3	Trace	Brown sand
			6	0.08%	Brown sand

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
5	Lsd. 15-31-104-9 W.5	103-2-5	3 6	1.51% Trace	Brown sand

LINE NO. 3: Line running northeasterly through Section 10, Township 105, Range 10, W. 5 M.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 4-10-105-10 W.5	103-3-1	3 6	Trace Trace	Brown clay Brown clay
2	Lsd. 4-10-105-10 W.5	103-3-2	3	Trace	Brown sand
3	Lsd. 7-10-105-10 W.5	103-3-3	3 6	Trace 0.32%	Sand Sand
4	Lsd. 8-10-105-10 W.5	103-3-4	3 6	0.10% 0.29%	Brown sandy clay Brown sandy clay
5	Lsd. 8-10-105-10 W.5 Line changes direction from 80° to 45°.	103-3-5	3 6	Trace Trace	Sandy clay Sandy clay
A	Lsd. 3-10-105-10 W.5 Muskeg, southeast of Line No. 3	103-3-A	3 6	Trace Trace	Sandy clay Sandy clay

LINE NO. 4: Line bearing 180° from intersection with Line No. 1 - 3,300 feet west of Hole No. 1, Line No. 1, on west side of Sections 36, 25 and 24, Township 104, Range 10, W. 5 M.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 13-36-104-10 W.5 Swampy area, small spruce and poplar trees.	103-4-1	3 6	Trace Trace	Brown sand Brown sand
2	Lsd. 12-36-104-10 W.5 Spruce swamp	103-4-2	3 6	Trace Trace	Decayed vegetation
3	Lsd. 5-36-104-10 W.5 Poplar trees	103-4-3	3 6	Trace 0.93%	Sand Sandy clay

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
4	Lsd. 4-36-104-10 W.5	103-4-4	3	1.26%	Black organic humus
			6	Trace	Grey clay
5	Lsd. 13-25-104-10 W.5 Willow swamp	103-4-5	3	Trace	Sandy clay
			6	Trace	Sandy clay
6	Lsd. 5-25-104-10 W.5 South edge of open muskeg.	103-4-6	3	Trace	Grey sandy clay, sulphurous odour.
			6	Trace	Grey sandy clay, sulphurous odour.
7	Lsd. 4-25-104-10 W.5	103-4-7	3	Trace	Brown sand
			6	0.61%	Brown sandy clay
8	Lsd. 13-24-104-10 W.5 Sandy area with poplar trees.	103-4-8	3	0.23%	Sand
			6	Trace	Sand

SULPHUR PROSPECTING PERMIT NO. 104

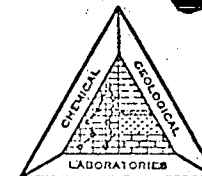
LINE NO. 1: Line bearing 356° in Sections 4 and 9, Township 112, Range 3, W. 5 M.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 7-4-112-3 W.5	104-1-1	3	Trace	Boulders at 3 feet.
2	Lsd. 10-4-112-3 W.5	104-1-2	3 6	Trace Trace	Black muck Black muck
3	Lsd. 15-4-112-3 W.5	104-1-3	3	Trace	
4	Lsd. 2-9-112-3 W.5	104-1-4	3 6	Trace Trace	
5	Lsd. 7-9-112-3 W.5 Surrounded by high spruce and poplar trees.	104-1-5	3 6	Trace 0.45%	
6	Lsd. 11-9-112-3 W.5 Muskeg.	104-1-6	3 6	Trace Trace	Black muck
7	Lsd. 2-4-112-3 W.5	104-1-7	3 6	Trace Trace	Glacial clay

LINE NO. 2: Northerly continuation of Line No. 1 through Sections 9 and 16, Township 112, Range 3, W. 5 M.

<u>Hole No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Depth Feet</u>	<u>Sulphur Content</u>	<u>Remarks</u>
1	Lsd. 14-9-112-3 W.5	104-2-1	3 6	Trace Trace	Glacial clay Glacial clay
2	Lsd. 3-16-112-3 W.5	104-2-2	3 6	Trace Trace	Glacial clay Glacial clay
3	Lsd. 6-16-112-3 W.5	104-2-3	3 6	0.31% Trace	Glacial clay Glacial clay
4	Lsd. 11-16-112-3 W.5	104-2-4	3 6	Trace Trace	Glacial clay Glacial clay
5	Lsd. 14-16-112-3 W.5 Gravel at 5 feet.	104-2-5	3 5	Trace Trace	Glacial clay Glacial clay and gravel.
6	Lsd. 14-16-112-3 W.5 Gravel at 5 feet.	104-2-6	3 5	Trace Trace	Glacial clay. Glacial clay and gravel.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



OPERATOR: J. C. SPROULE & ASSOCIATES LTD.

REPORT NUMBER: C68-4403

DATE SAMPLED: ---

DATE RECEIVED November 6, 1968

DATE REPORTED November 26, 1968

Kind of Sample: Soil (104)

<u>SAMPLE NUMBER</u>	<u>DEPTH (In Feet)</u>	<u>ELEMENTAL SULFUR (% by weight on Dry Sample)</u>	<u>SAMPLE NUMBER</u>	<u>DEPTH (In Feet)</u>	<u>ELEMENTAL SULFUR (% by weight on Dry Sample)</u>
101-1-1	3	Trace	101-4-2	5	Trace
101-1-1	6	"	101-4-3	3	"
101-1-2	3	"			
101-1-2	6	"	102-1-1	3	Trace
101-2-1	3	"	102-1-1	5	"
101-2-1	6	"	102-1-2	3	"
101-2-2	3	"	102-1-2	6	"
101-2-2	6	"	102-1-3	3	"
101-2-3	3	"	102-1-3	6	"
101-2-3	6	"	102-1-4	6	"
101-1-3	3	"	102-1-5	3	"
101-2-4	3	"	102-1-5	6	"
101-2-4	6	"	102-1-6	3	"
101-2-5	3	"	102-1-6	6	0.77
101-2-5	6	"	102-1-7	3	Trace
101-2-6	3	"	102-1-7	6	"
101-2-6	6	1.48	102-1-8	3	"
101-3-1	3	Trace	102-1-8	6	"
101-3-1	6	"	102-1-9	3	"
101-3-2	3	"	102-1-9	6	"
101-3-2	6	"	102-1-10	3	"
101-3-3	3	"	102-1-10	6	"
101-3-3	6	"	102-2-1	3	"
101-3-4	3	"	102-2-1	6	7.26
101-3-4	6	"	102-2-2	3	7.76
101-3-5	3	"	102-2-2	6	Trace
101-3-6	3	"	102-2-3	3	"
101-3-6	6	"	102-2-3	6	"
101-3-7	3	"			
101-3-7	5	"			
101-4-1	3	"			
101-4-1	3	"			

continued.....

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



OPERATOR: J. C. SPROULE & ASSOCIATES LTD.

REPORT NUMBER: C68-4403

DATE SAMPLED: ---

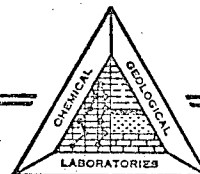
DATE RECEIVED November 6, 1968

DATE REPORTED November 26, 1968

Kind of Sample: Soil (104)

<u>SAMPLE NUMBER</u>	<u>DEPTH (In Feet)</u>	<u>ELEMENTAL SULFUR (% by weight on Dry Sample)</u>	<u>SAMPLE NUMBER</u>	<u>DEPTH (In Feet)</u>	<u>ELEMENTAL SULFUR (% by weight on Dry Sample)</u>
102-2-4	3	Trace	102-3-5	3	Trace
102-2-4	6	"	102-3-5	5	"
102-2-5	3	"	102-3-6	3	"
102-2-5	6	"	102-3-7	3	"
102-2-6	3	"	102-3-7	6	"
102-2-6	6	"	102-3-8	3	"
102-2-7	3	"	102-3-8	6	"
102-2-7	6	2.99	102-3-9	3	"
102-2-8	3	Trace	102-3-9	6	"
102-2-9	3	"	102-3-10	3	"
102-2-9	6	"	102-3-10	6	"
102-2-10	3	"	102-3-11	3	"
102-2-10	6	"	102-3-12	3	"
102-2-11	3	13.42	102-3-12	6	"
102-2-11	6	Trace	102-3-13	3	"
102-2-12	3	7.19	102-3-13	6	"
102-2-12	6	Trace	102-3-14	3	"
102-2-13	6	"	102-3-14	6	"
102-3-1	3	"	102-3-15	3	"
102-3-1	6	"	102-3-15	6	"
102-3-2	3	"			
102-3-2	6	"			
102-3-3	3	0.19			
102-3-3	5	0.24			
102-3-4	3	Trace			

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



14240 - 115th. Avenue, Edmonton, Alberta.

4605 - 12th. Street, N. E., Calgary 67, Alberta.

Date Received: November 13, 1968

Date Reported: November 27, 1968

J. C. SPROULE & ASSOCIATES LTD.

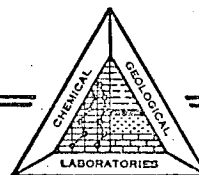
1009 - 4th. Ave. S.W.,
Calgary

Kind of Sample: Soil

Laboratory Report #: C68-4413

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight on Dry Sample)</u>
103-1-1	3'	Trace
103-1-1	6'	Trace
103-1-2	3'	Trace
103-1-2	6'	Trace
103-1-3	3'	Trace
103-1-3	6'	Trace
103-1-4	3'	Trace
103-1-4	6'	Trace
103-1-5	3'	0.93
103-1-5	6'	Trace
103-1-6	3'	Trace
103-1-6	6'	Trace
103-1-7	3'	Trace
103-1-7	6'	Trace
103-1-8	3'	Trace
103-1-8	6'	Trace
103-1-9	3'	Trace
103-1-9	6'	Trace
103-2-1	3'	Trace
103-2-1	6'	Trace
103-2-2	3'	Trace
103-2-2	6'	Trace
103-2-3	3'	Trace
103-2-3	6'	Trace
103-2-4	3'	Trace
103-2-4	6'	.08
103-2-5	3'	1.51
103-2-5	6'	Trace
103-3-1	3'	Trace
103-3-1	6'	Trace

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



14240 - 115th. Avenue, Edmonton, Alberta.
4605 - 12th. Street, N. E., Calgary 67, Alberta.

Date Received: November 13, 1968

Date Reported: November 27, 1968

J. C. SPROULE & ASSOCIATES LTD.

1009 - 4th. Ave. S.W.,
Calgary

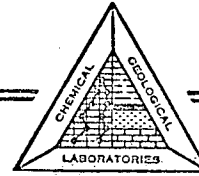
Kind of Sample: Soil

Laboratory Report No.: C68-4413

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight on Dry Sample)</u>
103-3-2	3'	Trace
103-3-3	3'	Trace
103-3-3	6'	0.32
103-3-4	3'	0.10
103-3-4	6'	0.29
103-3-5	3'	Trace
103-3-5	6'	Trace
103-3-A	3'	Trace
103-3-A	6'	Trace
103-4-1	3'	Trace
103-4-1	6'	Trace
103-4-2	3'	Trace
103-4-2	6'	Trace
103-4-3	3'	Trace
103-4-3	6'	0.93
103-4-4	3'	1.26
103-4-4	6'	Trace
103-4-5	3'	Trace
103-4-5	6'	Trace
103-4-6	3'	Trace
103-4-6	6'	Trace
103-4-7	3'	Trace
103-4-7	6'	0.61
103-4-8	3'	0.23

Results on the balance of the samples will come on a second report.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



14240 - 115th. Avenue, Edmonton, Alberta
4605 - 12th. St., N. E., Calgary 67, Alberta

Date Received: November 13, 1968 Date Reported: December 2nd., 1968

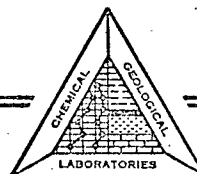
J. C. SPROULE & ASSOCIATES LTD.
1009 - 4th. Ave. S.W.,
Calgary

Kind of Sample: Soil

Laboratory Report #: C68-4413

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight on Dry Sample)</u>
103-4-8	6'	Trace
104-1-1	3'	Trace
104-1-2	3'	Trace
104-1-2	6'	Trace
104-1-3	3'	Trace
104-1-4	3'	Trace
104-1-4	6'	Trace
104-1-5	3'	Trace
104-1-5	6'	0.45
104-1-6	3'	Trace
104-1-6	6'	Trace
104-1-7	3'	Trace
104-1-7	6'	Trace
104-2-1	3'	Trace
104-2-1	6'	Trace
104-2-2	3'	Trace
104-2-2	6'	Trace
104-2-3	3'	0.31
104-2-3	6'	Trace
104-2-4	3'	Trace
104-2-4	6'	Trace
104-2-5	3'	Trace
104-2-5	5'	Trace
104-2-6	3'	Trace
104-2-6	5'	Trace
100-1-1	3'	Trace
100-1-1	6'	Trace
100-1-2	3'	Trace
100-1-2	6'	Trace

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



14240 - 115th. Avenue, Edmonton, Alberta.
4605 - 12th. Street, N. E., Calgary 67, Alberta.

Date Received: November 13, 1968

Date Reported: December 2nd., 1968

J. C. SPROULE & ASSOCIATES LTD.

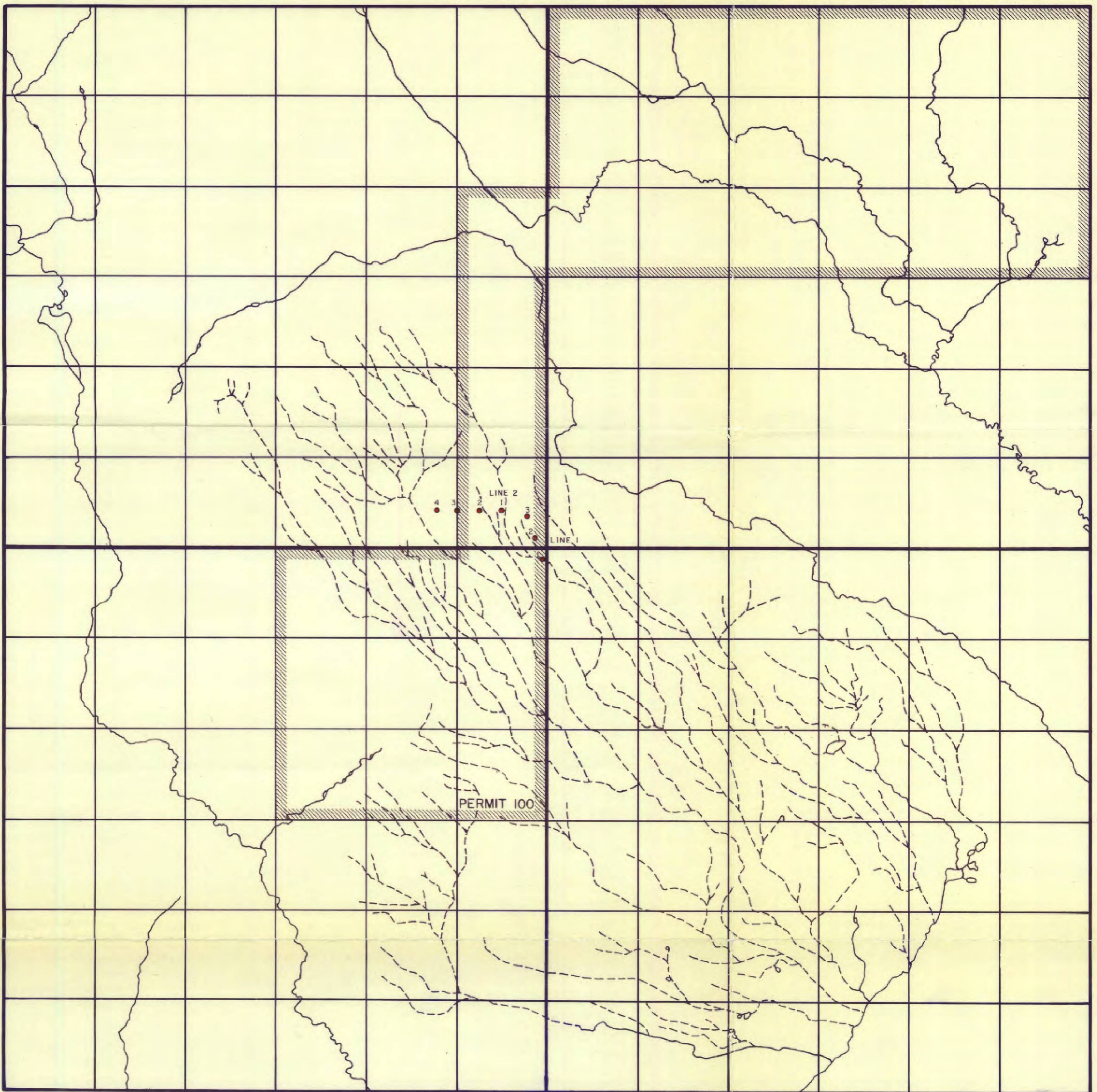
1009 - 4th. Ave., S.W.,
Calgary

Kind of Sample: Soil

Laboratory Report #: C68-4413

<u>SAMPLE NUMBER</u>	<u>DEPTH IN FEET</u>	<u>ELEMENTAL SULPHUR (% by Weight on Dry Sample)</u>
100-1-3	3'	Trace
100-1-3	6'	Trace
100-2-1	3'	Trace
100-2-1	6'	Trace
100-2-2	3'	Trace
100-2-2	6'	Trace
100-2-3	3'	Trace
100-2-3	6'	Trace
100-2-4	3'	Trace
100-2-4	5'	Trace

7



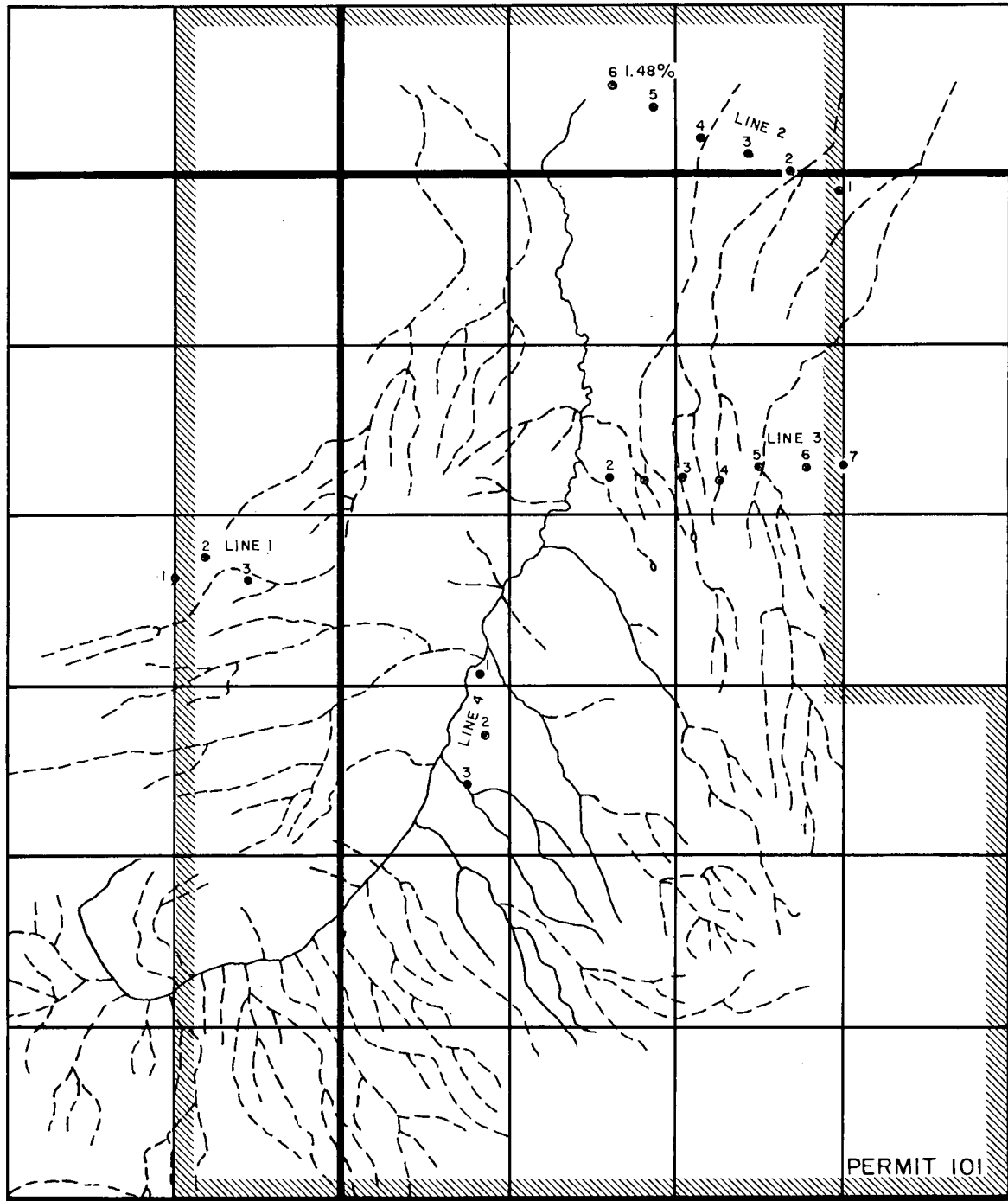
19680092
Permit No. 100

SULPHUR PROSPECTING PERMIT 100
NORTHERN ALBERTA



(2) 100-7A-2
 (2) 100-7A-3
 (2) 100-7A-4
 (2) 100-7A-5
 (2) 100-7A-6
 (2) 100-7A-7
 (2) 100-7A-8
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 (2) 100-7A-10
 (2) 100-7A-11
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 (2) 100-7A-96
 (2) 100-7A-97
 (2) 100-7A-98
 (2) 100-7A-99
 (2) 100-7A-100

NOTE : Only Sulphur values above a trace are shown on map.



R.14

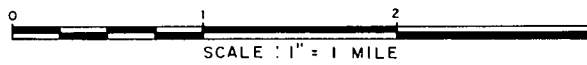
R.13 W.5 M.

T.103

PERMIT 101

SULPHUR PROSPECTING PERMIT 101

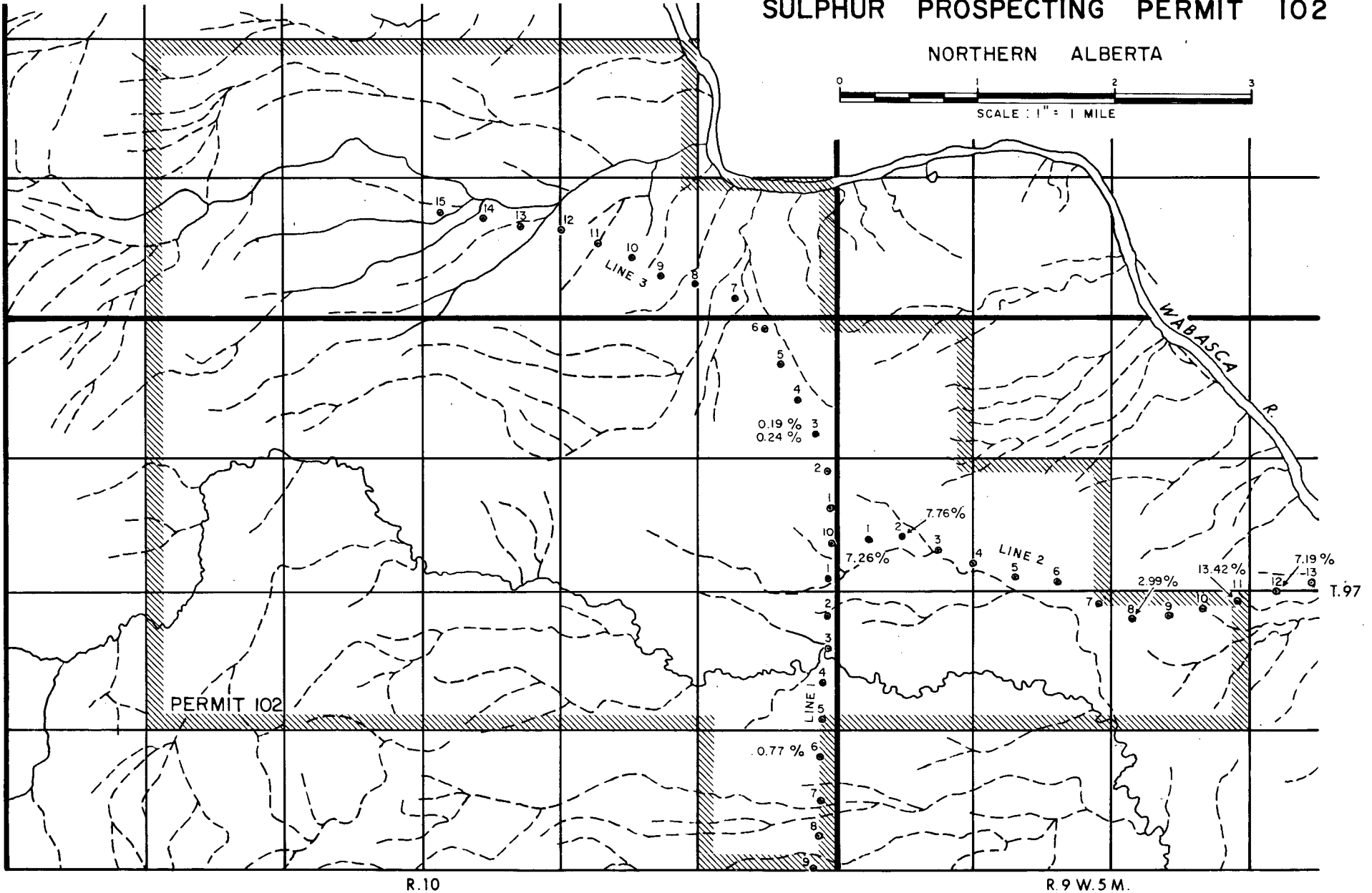
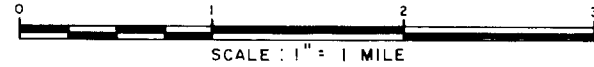
NORTHERN ALBERTA



NOTE: Only Sulphur values above a trace are shown on map.

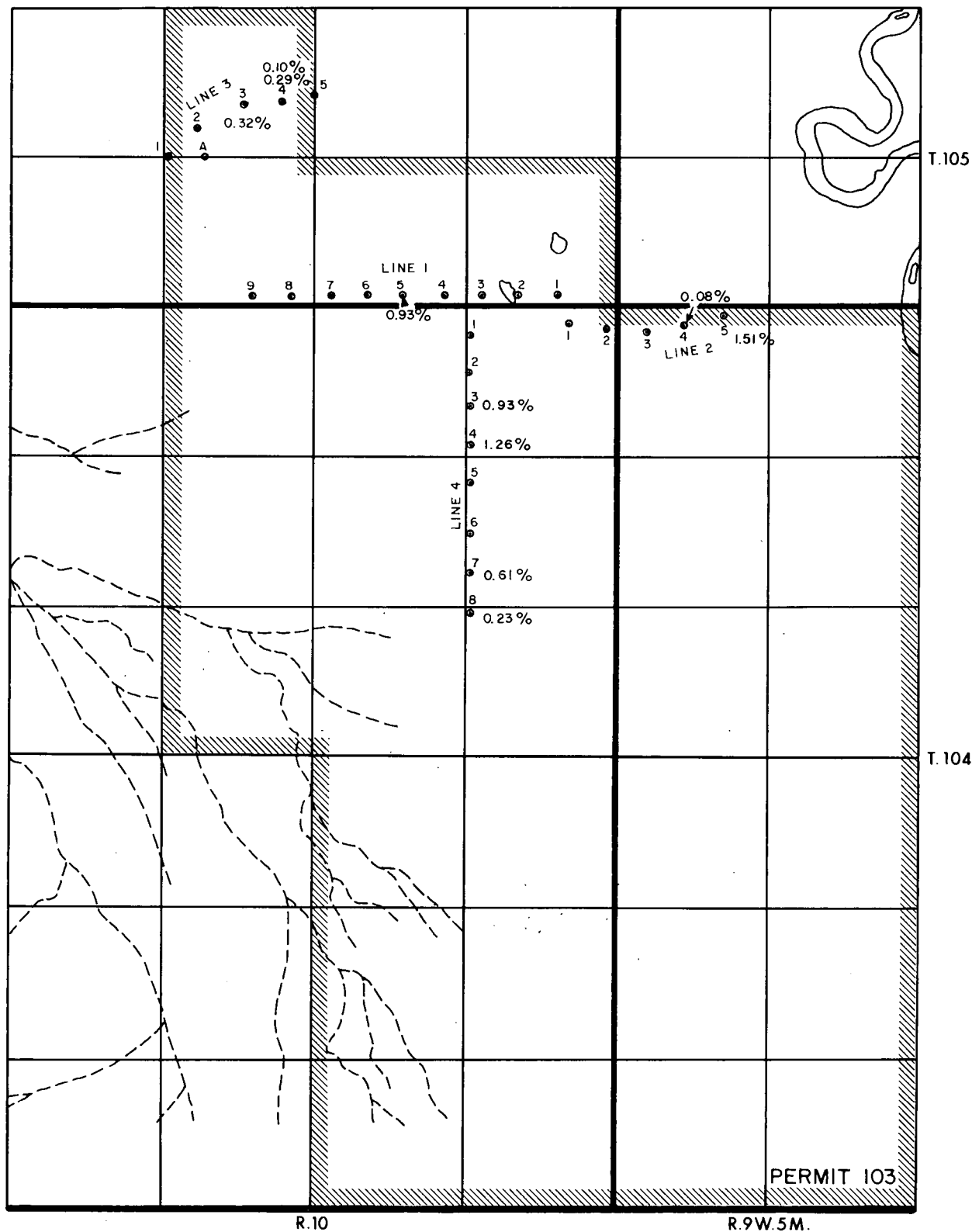
SULPHUR PROSPECTING PERMIT 102

NORTHERN ALBERTA

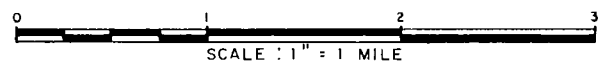


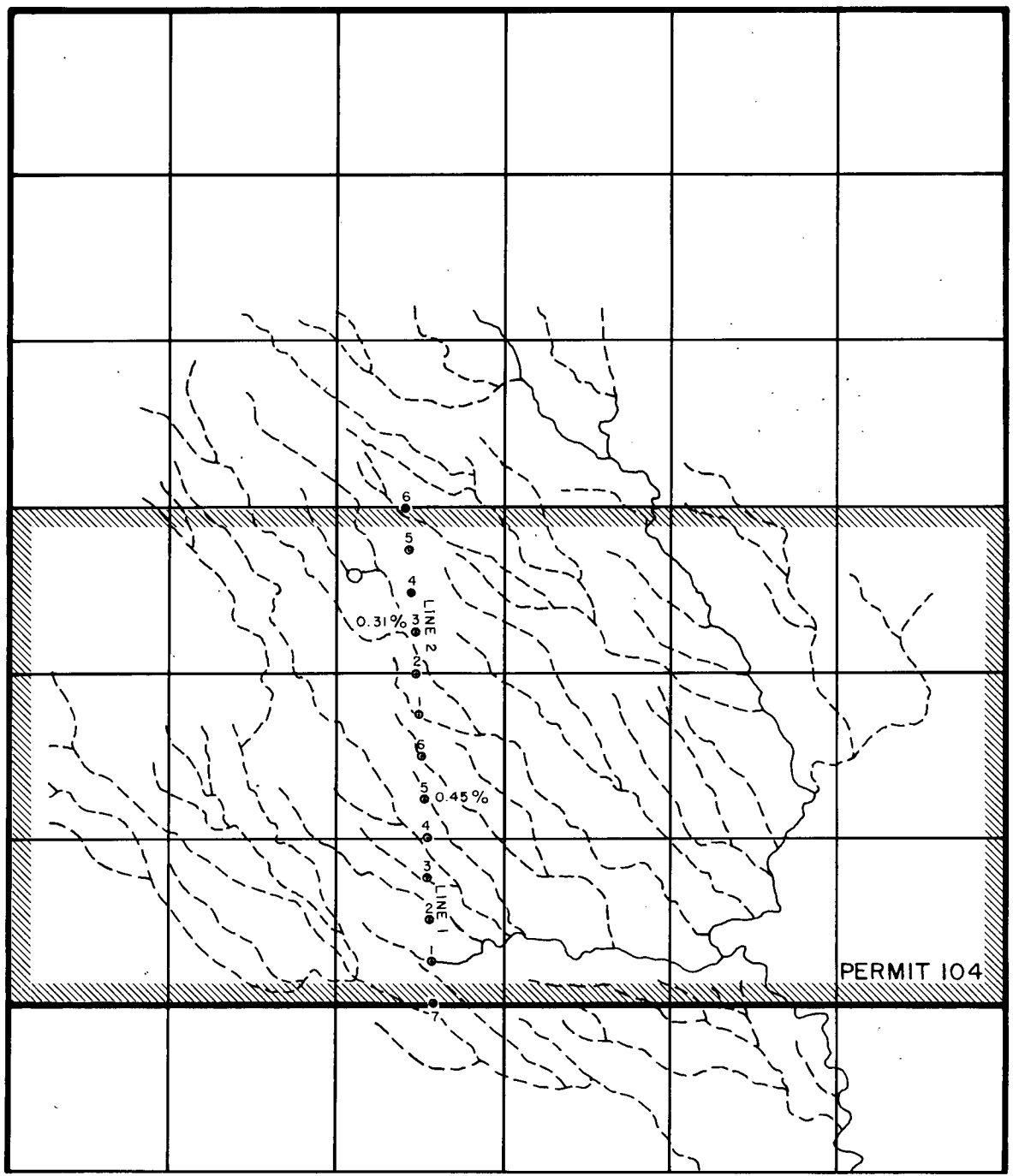
19680092

NOTE: Only Sulphur values above a trace are shown on map.



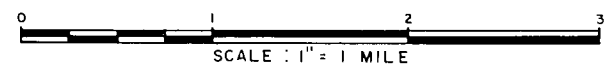
SULPHUR PROSPECTING PERMIT 103
NORTHERN ALBERTA





R.3W.5M.

SULPHUR PROSPECTING PERMIT 104
NORTHERN ALBERTA



NOTE: Only Sulphur values above a trace are shown on map.