5424

DEER LAKE OPTION AND ADD CLAIMS
LITTLE FORT AREA, B.C.
PERCUSSION DRILLING PROGRAM

N.T.S. 92-P-8,9 Claims

U. Paltser

A. Troup

November, 1974

92P/9W

Department of

Mines and Petroleum Resources

ASSESSMENT REPORT

NO 5424 MAP

May 1/10 (20015 12.8365).

DEER LAKE OPTION AND ADD CLAIMS LITTLE FORT AREA, B. C.

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CLAIMS

Names	Record Numbers
LV - 27 to LV - 68 incl.	115217 to 115258 incl.
LV - 69 Fr to LV - 72 Fr incl.	115259 to 115262 incl.
ADD - 1 to ADD - 18 incl.	128353 to 128370 incl.
ADD - 19 Fr	128371
ADD - 20 to ADD - 25 incl.	128372 to 128377 incl.
ADD - 26 Fr	128378
ADD - 27	128379

LOCATION

Little Fort Area, British Columbia N.T.S. 92-P-8,9 120^o22'N, 50^o31'N Kamloops Mining Division

DATES

November 14 to November 27, 1974

DEER LAKE OPTION AND ADD CLAIMS LITTLE FORT AREA, B. C.

PERCUSSION DRILLING PROGRAM

U. Paltser

November, 1974

A. Troup

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- I Assay Results
- II Statement of Costs
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MAPS AND ILLUSTRATIONS

#/ Location Map Scale: 1" = 2,640 ft. Dwg. L-2642-B #2##2Location of Drill Holes Scale: 1" = 400 ft. Dwg. D-4439-2A

DEER LAKE OPTION AND ADD CLAIMS LITTLE FORT AREA, B. C. PERCUSSION DRILLING PROGRAM

U. PaltserA. Troup

November, 1974

SUMMARY

In November 1974 a percussion drill program involving 1250 feet of drilling in seven holes was completed in the Little Fort Area, B.C. The work was carried out on a block of 73 claims, the LV and ADD claims, held by Rio Tinto Canadian Exploration Ltd.

Purpose of the program was to test areas over which previous surveys had detected very high copper values in stream sediment, adjacent to zones of elevated I.P. chargeability response.

Results of the program were disappointing. No significant copper values were obtained from any of the holes. The highest assay was 0.05% Copper obtained over a 10 foot interval. In addition, an insufficient amount of sulfide was detected to account for the I.P. chargeability anomalies.

It is recommended that a petrographic examination of drill cuttings be made and all data on the property be reassessed before additional work is planned.

DEER LAKE OPTION AND ADD CLAIMS LITTLE FORT AREA, B. C.

PERCUSSION DRILLING PROGRAM

U. Paltser

A. Troup

November, 1974

1. INTRODUCTION

Following a regional geochemical sampling program which found anomalous copper values in the vicinity of Laurel and Latremouille Lake, 46 claims, the LV claims, were optioned from Deer Lake Mines Ltd., (Deer Lake Option), later 27 additional claims, the ADD claims, were staked by Rio Tinto Canadian Exploration Ltd., to completely cover the area of interest.

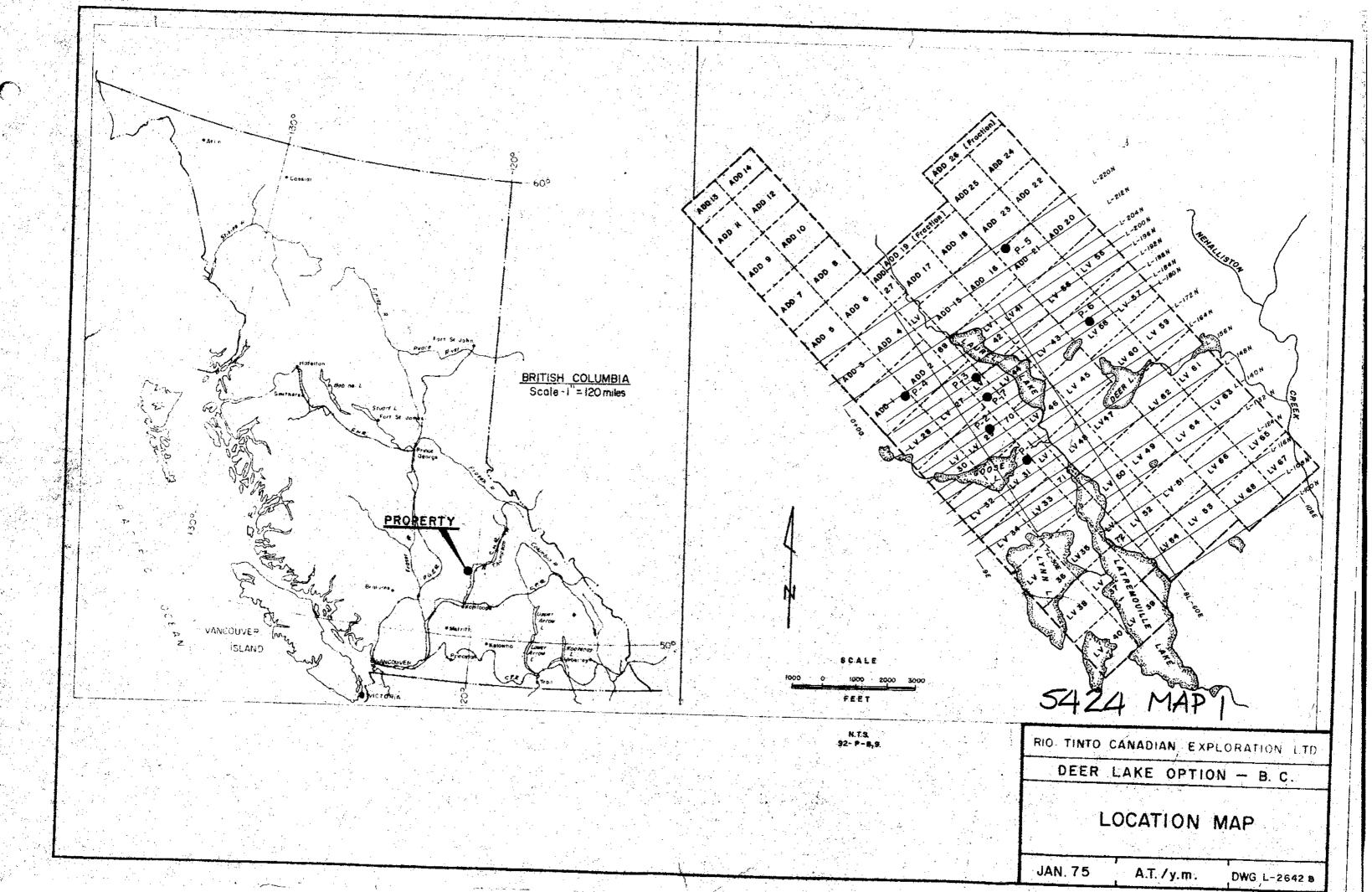
Subsequently, the property was investigated by airborne geophysics, geochemistry (soil and stream), geological
mapping and ground geophysical surveys. With the exception
of the I.P. and magnetometer surveys completed earlier this year,
previous work had proved inconclusive in explaining or defining
the source of the copper anomaly.

After completion of the I.P., definite drill targets were evident and a program of percussion drilling was recommended to test chargeability anomalies for copper mineralization.

2. LOCATION AND ACCESS

The property consisting of 73 claims is situated on a gently rolling plateau at a mean elevation of 4,000 feet approximately 10 air miles north-west of Little Fort, B. C.

Excellent access to the centre of the property is provided by a logging road which intersects Highway 24 approximately 11 miles west of Little Fort.



3. PERCUSSION DRILLING PROGRAM

1. <u>General</u>

The drilling contract was awarded to Josco Mining Company Limited of Kamloops, B.C. who completed the 7 holes between November 14th and November 26th, 1974.

The drilling rig was mounted with the compressor on a converted skidder which reduced moving time but because of increased weight proved awkward on narrow roads, soft roadbeds, and corners with grades. Unless exploration conditions are ideal and roads are well drained, this machine is too bulky.

2. Drilling and Sampling

After the machine was on the drill site the overburden was penetrated using a carbide tipped bit mounted on the end of the casing. When bedrock was reached a smaller bit and rods were inserted into the casing. Drilling was carried out using a water flush and the return water was diverted through a sample splitter (this consists of a rotating metal wheel equipped with notches to remove one eighth of the return water and rock fragments).

The sample was collected in a metal pail lined with a plastic bag. It usually consisted of 10-15 gal. of murky water and about 4 lb. of ground rock fragments. Rock fragments were never larger than 1/8" in diameter.

At the end of each run, the water and suspended material (chlorite, clay minerals, etc.) was decanted from the rock fragments to ensure that the fine fraction of the sample was not washed away. This procedure was followed for each sample taken at 10 foot intervals in the hole.

The samples were analysed for copper and sulphur content by Bondar-Clegg & Company Limited of North Vancouver.

3. Drilling Results

A total of 7 holes ranging in depth from 80 to 200 feet were completed during the program. Holes were stopped short of a depth of 200 feet only if bad ground conditions were encountered.

The locations of the drill sites are shown on accompanying Drawing No. D-4439-2A. Assay results are given in Appendix I.

Pertinent data and field observations based on a megascopic examination of each sample are summarized below.

Hole P-l:

Grid location - 157 + 30 N, 37 + 00 E,

Dip 90°, depth 200 ft.

0' - 15' overburden

15' -200' Gabbro - mafics altered to chlorite, feldspars are creamy white. Minor epidote but no sulphides visible.

Hole P-2:

Grid location - 171 + 92 N, 35 + 57 E,

Dip 90°, depth 200 ft.

0' - 25' overburden

25' - 60' Gabbro - as gabbro in P-l except feldspar appears sericitized and traces of pyrite are visible.

60' -160' Diorite - less chlorite with few feldspars intact (altered to sericite). Flakes of biotite, calcite and pyrite in the fine fraction.

160' -200' Gabbro - as 25' - 60'.

Hole P-3:

Grid location - 188 + 00 N, 42 + 27 E,

Dip 90°, depth 190 ft.

0' - 15' overburden

15' -190' Gabbro or Diorite - finer grained, basic in composition and very chloritic with traces of pyrite.

Hole P-4:

Grid location - 193 + 00 N, 18 + 00 E,

Dip 90°, depth 200 ft.

0' - 35' overburden

35' -200' Gabbro or Diorite - as P-3.

Hole P-5:

Grid location - 215 + 00 N, 71 + 00 E, Dip 90° , depth 180 ft.

0' - 20' overburden

20' -180' Gabbro or Diorite - generally as P-3 with more pyrite.

Hole P-6:

Grid location - 182 + 00 N, 80 + 65 E, Dip 90° , depth 80 ft.

0' - 25' overburden

25' - 80' Gabbro - very chloritic, fine grained, no
 visible sulphides. Possible fault zone caving in hole.

Hole P-7:

Grid location - 179 + 80 N, 40 + 75 E,

Dip 90°, depth 200 ft.

0' - 10' overburden

10' -200' Gabbro - coarser fragments as P-1, still chloritic, trace pyrite.

The samples were all similar in composition but differed in texture. This was thought to be due to variations in abundance of chlorite.

Holes P-1, P-2 and P-7 produced fragments larger than the other holes and contained feldspar grains. The relative ease in drilling these holes suggests a more competent rock with less fracturing.

Conversely, the other holes produced a greater proportion of fines and considerable difficulty was experienced in keeping the holes open.

Pyrite mineralization was visible as minute cubes and grains in most of the holes but the consistency of the sample (i.e. wet sand) made an accurate estimation impossible.

4. DISCUSSION OF ASSAY RESULTS

The assay results obtained from the percussion drill samples are given in Appendix I. No significant copper values were obtained from any of the seven drill holes. The highest assay was 0.05% copper obtained over a 10 foot interval in hole P-1. The majority of the samples returned copper values on the order of 0.01 to 0.02%.

In each drill hole, one ten foot section from each 50 foot interval was analysed for total sulfur. From the sulfur values, the maximum possible pyrite concentrations have been computed. These data are shown in Appendix I. With the exception of holes P-5 and P-6 which returned pyrite values on the order of 1½ to 2%, the pyrite content of each of the holes is on the order of one half of one percent or less. This is far too little sulfide to explain the chargeabilities of up to 5 times background obtained on this property.

5. CONCLUSIONS

Assay results obtained from the current drill program revealed no significant copper values in any of the holes and only minor pyrite concentrations in five of the holes. These observations lead to the following conclusions:

- the high copper concentrations found in drainage systems on this property do not originate in the areas tested by this drill program.
- 2) the I.P. chargeability anomalies outlined on this property are caused by some factor other than sulfide mineralization.

6. RECOMMENDATIONS

In view of results of the present program the following recommendations are made:

- 1) a complete reassessment of all available data on the property should be made prior to the planning of any additional work.
- 2) a petrographic examination of the percussion drill cuttings should be made, to determine if alteration minerals that could account for the chargeability anomalies are present.
- 3) future drilling on the property should involve core drilling, in order to obtain samples of sufficient size to allow identification of rock type and alteration minerals.

U. Paltser

a. Troup

A. Troup

Vancouver Office December 31, 1974

ASSAY RESULTS

Hole Number	From	То	% Cu	% S ₂	% FeS ₂ (Calculated)
Hole P-1					
157+30N, 39+00E	15 (20 '	0.01	_	-
	20 '	30 '	0.01	_	_
	30'	40 '	0.02	_	-
	40 '	50'	0.02	-	-
	50 '	60 '	0.01	0.35	0.65
	60 '	70 '	0.01	_	
	70 '	80 '	0.01		<u>-</u>
	80 '	90'	0.02	_	· _
	90'	100'	0.01	_	
•	100'	110'	0.05	0.23	0.43
	110'	120'	0.03	_	_
	120'	130'	0.01	_	-
	130'	140'	0.01	_	-
•	140'	150'	0.01	-	_
	150'	160'	0.01	0.11	0.20
	160'	170'	0.01	_	_
	170'	180'	0.01	_	_
•	180'	190'	0.01	_	_
	190'	200 '	0.01	-	
Hole P-2	·				
171+92N, 35+57E	25 '	30'	0.01	_	-
	30 '	40 '	0.01	_	_
	40 '	50 '	0.01	_	_
	50'	60 '	0.01	0.04	0.07
	60 '	70'	0.02	· _	_
	70 '	80 '	0.01	-	-
	80 '	90'	0.01	. —	
	90 '	100'	0.01	_	_
	100'	110'	0.01	0.17	0.31
	110'	120'	L0.01	_	_
	120'	130'	0.01	-	_
	130'	140'	0.01	_	·
	, 140'	150'	L0.01	_	-
•	150'	160'	L0.01	0.73	1.36
·	160'	170'	0.01	_	-
	170 '	180 '	0.04	-	- ,
	180 '	190'	0.03	_	_
	190	200 •	0.02	-	-

Hole Number	From	То	% Cu	% S ₂	% FeS ₂ (Calculated)
Hole P-3					
188+00N, 42+27E	5 '	10'	0.02		-
	10 '	20'	0.02	-	-
•	20 '	30'	0.02	- -	-
· · · · · · · · · · · · · · · · · · ·	30 '	40'	0.02	_	- .
	40 '	50	0.02		
	50 '	60	0.03	0.25	0.46
	60 '	70	0.02	-	-
	70 '	80	0.02	-	-
	80 '	90'	0.02	-	-
	90 '	100	0.02	-	-
	100 '	110'	0.02	0.15	0.28
	110 '	120	0.02	-	
	120 '	130	0.02	-	-
	130 '	140	0.02		-
	140 '	150'	0.02	-	-
	150 '	160'	0.01	0.09	0.16
	160 '	170'	0.02	-	-
	170	180	0.03	- ,	- .
	180'	190'	0.04	-	-
Hole P-4					
193+00N, 18+00E	35•	40'	0.01	_	-
	40'	50'	0.01	_	-
	50°	60'	0.01	0.06	0.11
	60°	70'	0.01	_	-
	70¹	80'	0.01	_	_
•	80 ⁱ	90'	0.01	_	-
	90'	100'	0.01	_	-
	100'	110'	0.01	0.02	0.03
•	110'	120'	0.01		_
	120'	130'	0.01	_	_
	130	140	0.01		
	140	150	0.01	-	-
	150°	160'	0.01	0.05	0.09
	160	170'	0.01	-	_
	170	180'	0.01	_	-
	180	190	0.01	-	_
•	190	200'	0.01	-	-

Hole Number	From	То	% Cu	% S ₂	% FeS2 (Calculated)
					(Carcuraced)
Hole P-5					
215+00N, 71+00E	20;	30:	L0.01	-	_
	30	40	L0.01	_	
	40	50	L0.01	_	· <u>_</u>
	50	60'	0.01	0.29	0.54
-	60	70	L0.01	_	_
	70,	80	LO.01		_
	80	90	LO.01	_	_
	90	100	0.01	_	-
·	100	110	0.03	0.95	1.77
	110	120	0.01		-
	120	130	0.01		_
	130	140	0.02	-	. -
	140	150	0.04	-	-
	150	160	0.04	1.38	2.58
•	160	170	0.03	_	-
	170	180	0.04	-	<u></u>
Hole P-6					
182+00N, 80+65E	25'	30'	0.01	-	_
	30'	40'	0.02	-	-
	40'	50'	0.02	-	
	50'	60'	0.02	0.98	1.83
·	60'	70'	0.03	_	-
	70'	90'	0.02	 -	-
Hole P-7					
179+80N, 40+75E	. 10	20'	0.01	_	_
	20'	30'	0.01	_	_
	30'	40'	0.02	_	-
	40'	50'	0.03	_	-
	50'	60'	0.02	0.25	0.46
	60'	70'	0.01	-	-
·	70'	80'	0.01	_	· •
	80'	90'	0.03	-	-
	90'	100'	0.03	-	-
	100'	110'	0.03	0.11	0.20
	110'	120'	0.03	_	-
	120'	130	0.03	_	-
	130'	140'	0.03	_	- .
	140'	150'	0.02		
_	150'	160'	0.01	0.12	0.22
	160'	170'	0.01	_	-
	170'	180'	0.01	_	-
•	180'	190'	0.01	-	-
	190'	200'	0.01	_	-

APPENDIX II:

STATEMENT OF EXPENDITURES

-1.	Deer (a)	Lake Option Drilling			
	• ,	870 feet of percussion dril	ling	\$ 3/ft.	\$2,610.00
		mobilization and demobiliza	-	, -	250.00
		water truck		\$40/shift	120.00
	(b)	Supervision and Report Prep	aration		
		U. Paltser (Nov. 14-27)	14 days	\$40/day	560.00
		A. Troup	7 days	\$50/day	350.00
	(c)	Food and Accommodation			147.75
	(2)	The last of the second second		•	
	(đ)	Fuel and Transportation	10.3.	43.0 /3	213 25
		4 x 4 Truck 4 x 4 Rental Truck		\$10/day & gas	211.07
		Air Fare Kamloops - Vancou		sis/day & gas	70.00 25.00
		All rate Namioops - vancou	rver		25.00
	(e)	Supplies			3.09
	(f)	Bulldozer Work - Drill si	tes, road	S	
		D 7F (Nov. 6-7)	11 hours	@ \$34.25/hr.	376.75
		D 7 (Nov. 20-26)	5 hours	@ \$25/hr.	125.00
		Supervision (l day)		40.00
		Mobilization - Demobilizati	on.		189.00
	(g)	Assaying Costs			
		81 Samples for Cu	@	\$ 4/sample	324.00
		13 Samples for S2	@	\$ 6/sample	78.00
		Drying Charges	_	20¢/lb.	71.95
		Transportation of Samples t	o Lab.		35.25

TOTAL

\$5,586.86

99.600

STATEMENT OF EXPENDITURES

2.		Claims		
	(a)	Drilling		
		380 feet of percussion drilling	\$ 3/ft.	\$1,140.00
		mobilization and demobilization	****	250.00
		water truck	\$40/shift	80.00
	(b)	Supervision & Report Preparation		
	` '		@ \$40/day	400.00
			@ \$50/day	150.00
		_	_	
	(c)	Food & Accommodation		230.00
	(a)	Fire1 c Managementation		
	(α)	Fuel & Transportation 4 x 4 Truck 7 days 6	a ¢10/day c gao	130.90
			@ \$15/day & gas	75.00
		Air Fare Vancouver - Kamloops	e yes any a gao	25.00
		_	•	
	(e)	Supplies		1.31
	<i>(.</i> -\	P-1117		
	(I)	Bulldozer Work - Drill sites, roads D 7F (Nov. 6-7) 4 hr.		. 127 00
		D 7F (Nov. 6-7) 4 hr. 6 D 7 (Nov. 20-26) 21 hr. 6	-	137.00 525.00
		Supervision (1 day)	e \$23.00	40.00
		Mobilization & Demobilization		189.00
			•	_0,000
	(g)	Assaying Costs		
		33 Samples for Cu	@ \$ 4/sample	132.00
		,	@ \$ 6/sample	36.00
		Drying Charges	@ 20¢∕lb.	18.05
		Transportation of Samples to Lab.		17.00

TOTAL \$3,576.46

APPENDIX III

STATEMENT OF QUALIFICATIONS

- I am a graduate of Queen's University in Kingston,
 Ontario where I received a degree in Geology from the Faculty of Applied Science (Engineering).
- 2. Since graduating in 1970, I have been a permanent employee of Rio Tinto Canadian Exploration Limited as a field geologist.
- 3. During my employment I have supervised and reported on geological, geophysical and drilling programs in eastern Canadá and most recently in British Columbia.

U. Paltser

STATEMENT OF QUALIFICATIONS

A. TROUP

|--|

1967 B.Sc. Geology McMaster University, Ontario

1969 M.Sc. Geochemistry McMaster University,

Ontario

PRACTICAL

1969-1974 Rio Tinto Canadian Ex- Geologist involved in

ploration Limited. all phases of porphyry Vancouver, B.C. copper exploration in

B.C.

1968 (summer) McMaster University M.Sc. thesis work.

Dept. of Geology Reconnaissance mapping Hamilton, Ontario and geochemical study,

Lake Shubenicadia area,

Nova Scotia.

1967(summer) Canex Aerial Explora- Geologist in charge of

tion Ltd., Toronto,

Ontario

detailed mapping and reconnaissance geochemical programme in Gaspe,

Quebec.

1966(summer) McMaster University,

Dept. of Geology Hamilton, Ontario Summer vacation work.
Detailed and reconnaissance mapping in northern

Ontario.

1965(summer) International Nickel

Co. of Canada.
Thompson, Manitoba

Summer vacation work. Detailed mapping in the Thompson Area. Manitoba.

1964(summer) Geological Survey of

Canada. Ottawa,

Ontario

Summer vacation work. Regional geochemical survey in the Keno Hill

area, Yukon.

a. Troup

