

MAR 19760003: ANDREW LAKE

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19760003

N.T.S. 74-M-9, 16

EDMONTON MINERALS
FILE REPORT NO.
U-AF-112(4)
U-AF-113(3)
U-AF-114(3)
U-AF-126(3)

PROGRESS REPORT

ON

QUARTZ MINERAL EXPLORATION PERMITS 182, 183, 184 & 247

ANDREW LAKE PROJECT, ALBERTA

FOR

TACHYON VENTURE MANAGEMENT LTD.

J. R. ALLAN, P.GEOL.
AUGUST 10, 1976

PROGRESS REPORT: JULY 20 - AUGUST 10, 1976

AIRBORNE RADIOMETRIC SURVEY

The airborne radiometric survey was completed July 31st and the helicopter demobilized from the job site August 1st. A total of 2,373.56 line miles were flown during the course of the survey, as more particularly described below:

Permit 182, Alberta	508.34 miles
Permit 183, Alberta	569.02 miles
Permit 184, Alberta	124.60 miles
Permit 247, Alberta	112.13 miles
Claim Block CBS 5407, Saskatchewan	65.75 miles
Charles Lake Area, Alberta	334.90 miles
Sask. - Peripheral to CBS 5407	34.15 miles
Alta. - Peripheral to Permits 182, 183, 184, & 247	<u>624.67 miles</u>
TOTAL	2,373.56 miles

Approximately 70% of the survey was flown with the following specifications:

Flight Line Spacing	- 700'
Mean Terrain Clearance	- 200'
Average Air Speed	- 85 m.p.h.
Total Count "Window"	- >0.25 MeV
U + Th "Window"	- 1.55 MeV - 4.00 MeV
Chart Recording; Total Count	- full scale of 3,000 c.p.s.
Chart Recording; U + Th	- full scale of 300 c.p.s.

Subsequent detailed flying over major structural lineaments, favorable geological settings and most of the obtained anomalies from the above survey were undertaken with the following specifications:

Flight Line Spacing	- flight lines interspersed with previous lines, for an interval of 350'
Mean Terrain Clearance	- 200'
Average Air Speed	- 75 m.p.h.
Total Count "Window"	- >0.25 MeV
U + Th "Window"	- 1.62 MeV - 3.00 MeV
Chart Recording: Total Count	- full scale of 1,000 c.p.s.
Chart Recording: U + Th	- full scale of 100 c.p.s.

The detailed flying was successful in indicating continuity between numerous previously isolated anomalies, as well as yielding better discrimination between "mass effects" (from sand plain areas to outcrop, or water to outcrop) and "low-order" anomalies (i.e. less than twice background.)

Preliminary ground follow-up in six relatively inaccessible areas was accomplished during the last three days of the survey by utilizing the helicopter for crew placement and pick-up. However, only one of these areas appears to warrant follow-up work (a weak radioactive biotite schist horizon at the north end of Charles Lake.)

Final airborne survey maps will be completed by August 23rd.

PROSPECTING PROGRAM

The uranium geochem soil sampling program on the grid south of Andrew Lake (Area No. 2) has been completed and 2,000 samples shipped to Calgary. Geochem results from the first 700 samples are expected August 16th. If the technique is deemed successful, the remaining 1,300 samples will be analyzed and the results available by August 23rd.

Three line miles of baseline (out of a proposed 10 miles) have been cut and chained along the Bonny Fault northwest from the shore of Andrew Lake. Detailed prospecting, scintillometry and soil sampling in overburden areas has been undertaken at 100' spaced pace and compass crosslines. The remaining seven miles of fault zone to be examined will be undertaken from a fly-camp during the latter part of August.

Two line miles of baseline have been cut and chained along the Hutton Lake fault, west of the southwest end of Andrew Lake. Detailed prospecting, scintillometry and soil sampling in overburden areas has been undertaken at 50' and 100' spaced pace and compass crosslines. Trenching of the south end of this radioactive zone is tentatively scheduled for mid-August.

Ground scintillometer traverses of those anomalies accessible by boat from Andrew Lake has been initiated with a view to setting priority areas for detailed examination.

Detailed prospecting of the Waugh Lake area, with specific attention to government reported showings of quartz-tourmaline veins containing gold values, failed to indicate either a favorable setting for gold mineralization, or the presence of significant sulphide mineralization. No further work is contemplated here.

350 "Track Etch" cups are presently being placed at approximately 400' centers on the grid south of Andrew Lake. These will be retrieved by the first week of September, and the results available by the first of October.

At present the crew consists of the writer (project supervisor) one senior geologist, 2 prospectors and 2 helpers. Two additional helpers were demobilized August 10th.

An unaudited estimate of expenditures incurred to date, exclusive of legal and administrative costs incurred by Tachyon, is \$90,973.45.

J. Rupert Allan, P.Geol.

ESTIMATE OF
EXPENDITURES TO AUGUST 10, 1976 (UNAUDITED)

PREFIELD AND OFFICE EXPENSES

June 1 to August 20	\$14,610.47	
██████████ consultant; June	<u>494.00</u>	\$15,104.47

FIELD EXPENSES

1. Mobilization and fuel haul		8,049.47
2. Fuel		2,339.82
3. Camp equipment, tools, lumber, explosives and disposable supplies		1,296.79
Camp equipment rental June 15 - August 15 60 days x 8 men x \$7.00/man/day		3,360.00
Radio rental: 2 x \$100/mo. each x 2 mo.		400.00
Antennaes, radio licence, servicing and shipping		224.32
Boat rental from Canadian Frontier Lodge, incl. gas June 17 - July 8, 22 days @ \$35/day		770.00
12' aluminum boat, 6 h.p. motor, paddles and life jackets (purchase)		1,166.50
Rental: 6 man Zodiac boat and 6 h.p. motor (2 month standby basis)		200.00
4. Food (fly camp)		1,680.00
5. Room and board, Andrew Lake Lodge		4,202.50
6. Instrument Rental:		
E.D.A. Radon Emanometer RD200 - 2 mo.	\$ 912.21	
Crone Radem VLF-EM, 3 mo. x \$255/mo.	765.00	
Fluxgate Magnetometer, 1 mo. @ \$150/mo.	150.00	
4 Scintillometers (varying rates and rental periods) est. to September 1, 1976	1,575.00	

Scintrex G1S-2 Spectrometer 3 mo. minimum rental period		\$ 900.00	\$
X-ray drill, rods and pump, 2 mo. on standby basis		400.00	
Atlas Copco rock drill and steel, 2 mo. @ \$150/mo.		<u>300.00</u>	5,002.21
7. Helicopter, Bell 206 B			
Airborne Radiometric Survey	40.9 hrs.		
Crew Placement and Pick-up	7.8 hrs.		
Fuel Placement	2.1 hrs.		
Service Flight	1.9 hrs.		
Mobilization and demobilization from North Battleford, Saskatchewan	<u>6.0 hrs.</u>		
	TOTAL 58.7 hrs. x \$275/hr		
			16,142.50
8. Service Flights			1,778.00
9. Long Distance calls			489.87
10. Miscellaneous travel expenses, room and board			646.40
11. Salaries			
██████████ - 34 days x \$170/day		\$ 5,780.00	
2 Prospectors - travel time June 12 - 16			
2 x 5 days x \$50/day each		500.00	
Field time - 66 days x 2 men x \$100/day ea.		13,200.00	
1 Geologist @ \$2,500/mo.		2,495.60	
5 Students varying rates and contract periods Estimated to August 20		<u>6,145.00</u>	<u>28,120.60</u>
	TOTAL		<u>\$90,973.45</u>

TAIGA CONSULTANTS LTD.
#205, 736 Eighth Avenue S.W.
CALGARY, ALBERTA T2P 1H4

403/265-5781

RECEIVED
JUL 28 10 50 '76
ALBERTA DEPARTMENT OF
ENERGY AND
NATURAL RESOURCES

July 27, 1976

Mr. George Fulford
Earth Sciences
ALBERTA DEPARTMENT OF MINES & MINERALS
9915 - 108 Street
EDMONTON, ALBERTA T5K 2C9

Dear Mr. Fulford:

Re: AML 176G
Aquarius Mines Ltd.
Quartz Mineral Exploration Permits 182, 183, 184

Enclosed please find one copy of a Progress Report on Aquarius Resources Ltd. Quartz Mineral Exploration Permits 182, 183, and 184, and the Cherry Lake Property (Permit Pending), Northeastern Alberta for Tachyon Venture Management Ltd. The Report is for the period June 15, 1976 to July 20, 1976.

Yours very truly,

TAIGA CONSULTANTS LTD.

J. Rupert Allan, P.Geol.

mb
Enclosure

FILE

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13.	Fuel: 30 drums Turbo B		\$ 2,096.10
	3 drums reg. gas, 1 case oil, 20 gal. naphtha		191.22
	1 drum 80/87 av. gas		52.50
14.	Camp equipment, tools, lumber and disposable supplies		584.93
	Camp equipment rental: June 15 to July 15		
	30 days x 4 men x \$7.00/day		840.00
	Radio rental: 2 @ \$100/mo.		200.00
	Boat rental from Canadian Frontier Lodges, incl. gas		
	June 17 to July 8, 22 days @ \$30/day		660.00
	12' aluminum boat, 6 h.p. motor, paddles & life jackets;		
	purchase		1,166.50
	Rental: 6 man Zodiac boat + 6 h.p. motor (standby basis)		100.00
15.	Food (fly-camp)		750.00
16.	Room and board, Andrew Lake Lodge camp		1,927.50
17.	Instrument rental:		
	Fluxgate magnetometer: 1 mo. @ \$150/mo.		150.00
	3 portable scintillometers: 2 for 1 mo. @ \$150/mo.		300.00
	1 for 2 wk. @ \$150/mo.		75.00
	X-ray diamond drill, rods and pump; Atlas Copco rock drill		
	1 month on standby basis		500.00
18.	Helicopter for airborne gamma ray spectrometer survey		
	Jet Ranger 206 B @ \$275/hour		
	Ferry: N. Battleford to Andrew Lake 4 hours		
	Survey: 10.2 hours (To July 20/76)		3,905.00
19.	Service flights:		
	4 Cessna 185 trips, 520 miles x \$0.90/mi.		468.00
	1 Single Otter trip, 120 miles x \$1.80/mi.		216.00
20.	Salaries: to July 20, 1976		
	██████████ 18 days x \$158/day	\$2,844.00	
	2 Prospectors: June 13 - July 20, incl.		
	38 days x 2 x \$75/day	5,700.00	
	2 Helpers: June 19 - July 20, incl.		
	32 days x 2 x \$50/day	3,200.00	<u>11,744.00</u>
		Sub-total	<u>\$31,032.80</u>
		Total	<u>\$45,481.60</u>