

Report on a Magnetometer Survey on
the OK Claim Group
of
GIANT EXPLORATIONS LTD.
Dynasty Area, Y. T.

ALRAE EXPLORATION LTD.

November 24, 1966

OK
1967
Giant Explorations
Dynasty Area, Y. T.

DeGirdley
5234.00
For R. G. Needham
[Signature]

TO PROTECT OUR CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS AND EXTRACTS FROM OUR REPORTS MUST RECEIVE OUR WRITTEN APPROVAL.

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MAPS

Scale

Location Plan	1" = 3 miles
Plan	1" = 500 feet
Magnetometer Readings	1" = 500 feet
Magnetic Contours	1" = 500 feet

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Report on a Magnetometer Survey on
the OK Claim Group of
GIANT EXPLORATIONS LTD.
Dynasty Area, Y. T.

INTRODUCTION

The OK claim group of Giant Explorations Ltd. is located near the headwaters of Blind Creek, approximately 35 miles northwest of Ross River, Y.T. The following claims constitute the group: OK number 9 to 24, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51 and 53.

Alrae Exploration Ltd. was engaged by Giant Explorations Ltd. to carry out a line cutting program and a magnetometer survey on their OK claims. This program was carried out during the spring and summer of 1966. All work was performed by Alrae personnel under the field supervision of D. Barclay or J. Mackie.

ACCESS

Men and supplies were flown from Watson Lake to Swim Lake. Thence by helicopter to the claim group.

TOPOGRAPHY AND VEGETATION

The western portion of the claims are on a steep east-facing hillside. The remainder of the claims cover an area of gentle to moderate relief.

All claims are below timber line. Near timber line, dense growths of spruce and balsam are encountered. At lower elevations open stands of trees interspersed with buckbrush and willows are common.

GEOLOGY

Overburden is extensive in the area. Regional mapping by the Geological Survey of Canada indicates the claims are underlain by flat lying metamorphic and volcanic rocks of Mississippian age. (Roddick and Green, map 13-1961, Tay River, Y.T.).

CLAIMS

Giant Explorations Ltd. holds the following claims: OK 9 to 24, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, grant numbers 94988 to 95003, 95012, 95014, 95016, 95018, 95448, 95450, 95452, 95454, 95020, 95022, and 95024, respectively. These claims are on claim sheet 105K-7, Whitehorse Mining Division, Y.T. Preliminary surveys indicate that only the northern portions of OK 33, 35, 37, 39, 41, 43, 45, 47, 49, 51 and 53 are in good standing.

CONTROL GRID

Crosslines, at 400 foot intervals, were cut between baselines running in an east-west direction. Approximately 28 line-miles were cut, chained and picketed at 100 foot intervals. A staff mounted compass and nylon chain were used for control.

A portion of the grid was cut before breakup and the remainder was cut after breakup.

TYPE OF MAGNETOMETER

A Sharpe, model MF-IR, fluxgate magnetometer was employed. It is a hand-held instrument which requires only coarse levelling. Orientation has negligible affect on field readings.

The magnetometer is capable of measuring the earth's vertical, magnetic field to 5 gammas on the lowest scale range. Full scale ranges vary progressively from a minimum of plus or minus 1,000 gammas to a maximum of plus or minus 100,000 gammas. Station values are read directly from an ammeter-type scale. A high latitude adjustment permits zeroing of the magnetometer in all but the most unusual circumstances.

FIELD PROCEDURES

The magnetometer was zeroed for this area. Then, base stations were established at 400 foot intervals along baselines. Elapsed time in

base line loops seldom exceeded 30 minutes. Each loop ended at the same station it was begun.

After base stations were established, field readings were taken at 100 foot intervals on all crosslines and base lines. Loops were limited to a maximum duration of one hour. Each loop was begun from a previously established base station. An overlap of at least one and commonly two or three stations of previous loops were incorporated in each loop. This procedure permitted a quick check of the survey accuracy.

Tolerable diurnal variation in any loop was 1 gamma per minute elapsed up to a maximum of 50 gammas. Variations were generally very small.

All operators were stripped of metallic objects which may have biased the survey.

CORRECTIONS

Temperature compensations built into the instrument eliminated any need for this correction. Thus, diurnal corrections were the only adjustments necessary to field readings. Diurnal variation, which is ^{at random is!} assumed to be linear, is determined by the difference between the initial and final reading at the base station each loop was begun. The correction added to each field reading in a loop is the diurnal variation of the loop multiplied by the ratio: time elapsed when reading taken over total time elapsed in the loop. Each corrected loop is adjusted to eliminate negative values.

INTERPRETATION

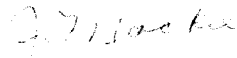
Four local, magnetic anomalies were outlined in the eastern portion of the claims. Residual magnetic backgrounds of the anomalies range from 200 to 350 gammas. These anomalies may be caused by pyrrhotite and/or magnetite in the metamorphic rocks or basic intrusive plugs.

Both possibilities are common in the district.

RECOMMENDATIONS

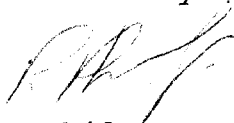
The indicated magnetic anomalies appear worthy of further attention. It is recommended that a geochemical survey and an electromagnetic survey be carried out over the eastern portion of the claims.

Report submitted by



J. Mackie

Endorsed by



R. Philp, P. Eng.

TIME AND COST DISTRIBUTION

LABOUR

Line cutting

April 27 to May 3, 1966

T. Allan
Watson Lake, Y.T.

P. Allan
Watson Lake, Y.T.

C. Pete
Lower Post, B.C.

J. McConnell
Good Hope Lake, B.C.

D. Reinke
Vanderhoof, B.C.

July 7 to 17, 1966

T. Allan, C. Pete and F. McMillan

Magnetometer Survey

J. Mackie V
Vancouver, B.C.
July 7 to 17, 1966

T. Flint
Watson Lake, Y.T.
July 15 to 23, 1966

TRANSPORTATION

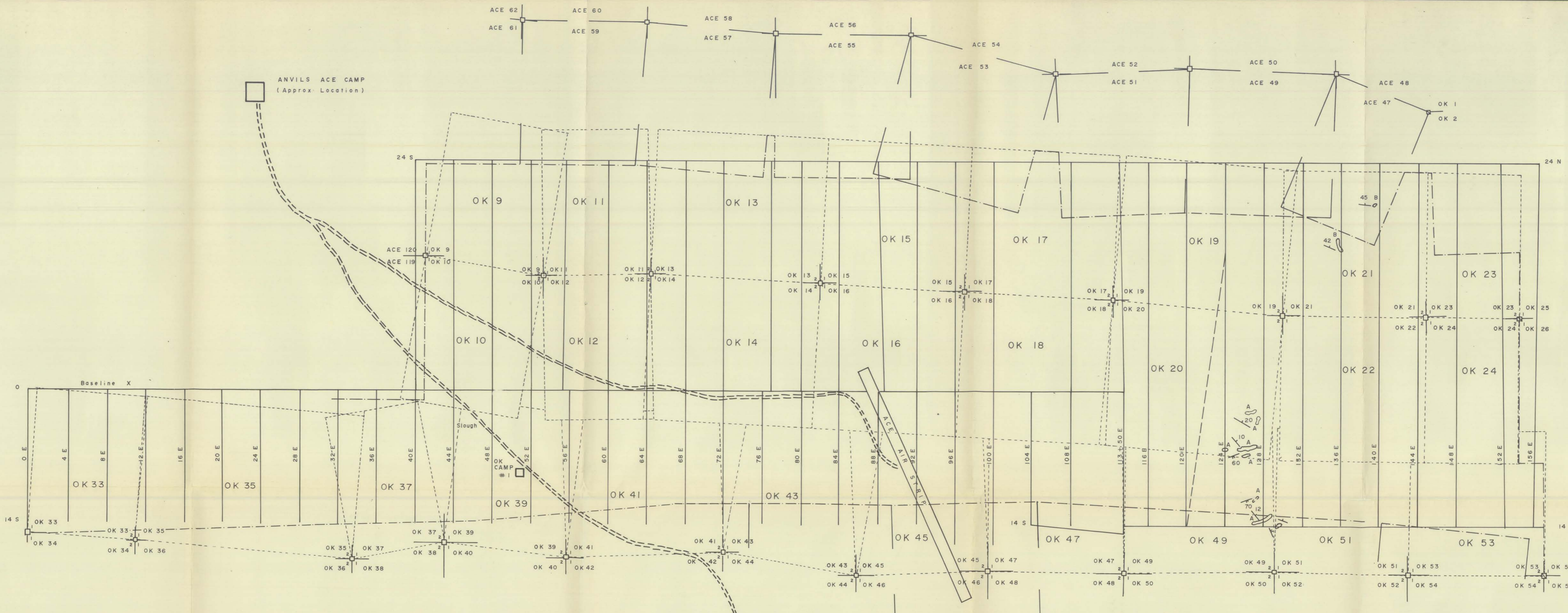
Helicopter
Fixed Wing Aircraft

CAMP COSTS, MISCELLANEOUS

APPENDIX I

Expenditure Summary

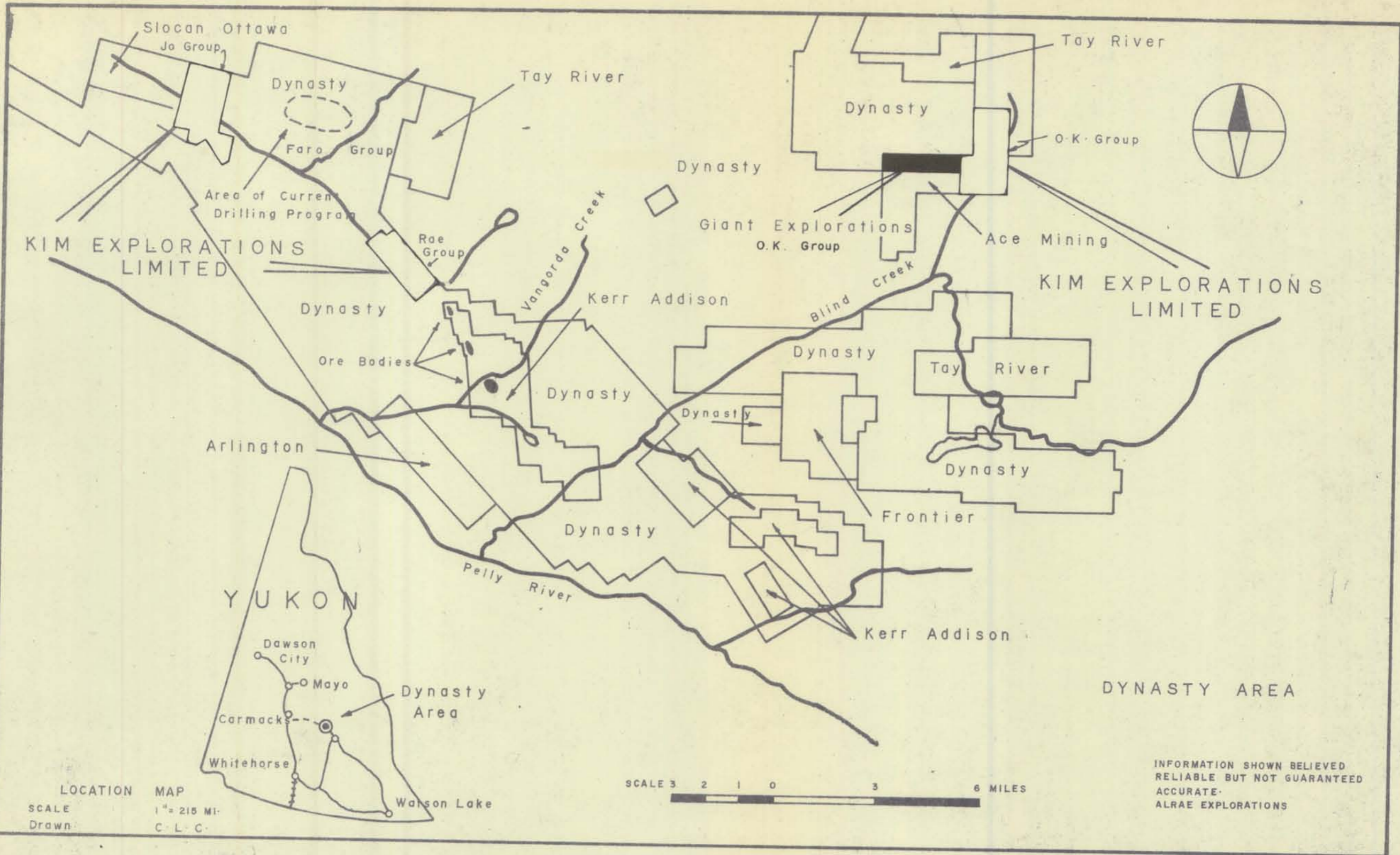
Invoice No. 66 - 108	July	\$ 3,258.00 ✓
Invoice No. 66 - 129	August	338.00
Invoice No. 66 - 154	September	305.00 ✓
Invoice No. 66 - 178	October	948.00 ✓
Invoice No. 66 - 219	November	<u>385.00</u> ✓
	TOTAL	\$ <u>5,234.00</u> ✓



- Legend**
- Claim posts
 - Winter road
 - Incorrect gridline
 - Outcrop
 - Garnet-Biotite Schist
 - Sericite Schist (possibly a phyllite)
 - Foliation
 - Joint
 - Approximate Property Boundary

NOTE: Claims outside grid located by pace & compass

GIANT EXPLORATIONS LTD.	
DYNASTY AREA OK CLAIM GROUP Plan & Surface Geology	
ALRAE EXPLORATION LTD. GEOLOGISTS AND ENGINEERS VANCOUVER, B. C.	
DESIGNED: J. M.	SCALES: HOR: 1" = 500'
DRAWN: C. L. C.	VERT: 1" = 500'
CHECKED: J. M.	DATE: Sept 13, 1966
ALRAE EXP. LTD. DWG. No.	JOB No.



KIM EXPLORATIONS LIMITED

KIM EXPLORATIONS LIMITED

YUKON

DYNASTY AREA

LOCATION MAP

SCALE 1" = 215 MI.
Drawn: C. L. C.

SCALE 3 2 1 0 3 6 MILES

INFORMATION SHOWN BELIEVED RELIABLE BUT NOT GUARANTEED ACCURATE - ALRAE EXPLORATIONS

ALRAE EXPLORATION LTD.

MAGNETOMETER READINGS

GIANT EXPLORATIONS LTD.

DYNASTY AREA

OK CLAIM GROUP

Instrument: SHARPE MF-1R Scale: 1" = 500'
No. 505147

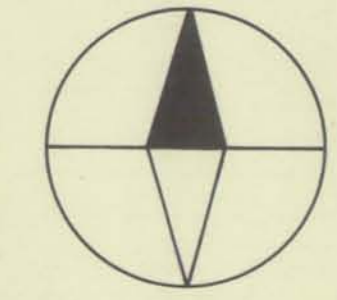
Operators: FLINT, MACKIE

Date: September 20, 1966.

Overlay for: PLAN AND SURFACE GEOLOGY

Approximate Property Boundary — — —

2055	2055	1980	2060	2055	2020	2080	2105	2050	1990	1995	2070	2130	2140	2090	2020	1965	1940	1920	1970	2075	2130	2125	2320	2395	2330	2300	2320	2365
2055	2050	2030	2125	2065	2035	2070	2095	2020	2070	2075	2170	2065	2040	2090	2065	1965	1940	1940	2025	2040	2090	2185	2405	2500	2260	2265	2250	2355
2000	2010	2025	2105	2065	2075	2035	2110	2081	2095	2030	2085	2120	2095	2095	2050	2030	1960	1960	2060	1925	2085	2185	2425	2480	2190	2250	2210	2325
2020	2085	2090	2085	2030	2085	2045	2110	2075	2085	2025	2060	2265	2085	2065	2060	2035	2010	1975	2005	1950	2035	2145	2275	2380	2195	2260	2240	2290
2030	2045	2035	2050	2020	2035	2130	2135	2105	2065	2065	2140	2215	2300	2030	1965	2055	2005	1980	2020	1920	2015	2015	2220	2388	2180	2280	2225	2270
2035	2040	2025	2075	2045	2080	2105	2140	2170	2050	2100	2105	2145	2105	2090	2020	2090	2005	2070	1970	1905	2135	2010	2170	2240	2255	2280	2210	2215
2040	2075	2010	2065	1985	2180	2075	2105	2160	2060	2105	2160	2095	2125	2095	2060	2010	2015	2010	1995	1935	2140	2050	2165	2185	2260	2290	2200	2190
2045	2055	1995	2065	2015	2150	2125	2135	2160	2065	2095	2080	2160	2140	2180	2030	1790	2015	2005	1960	2045	2045	2120	2195	2220	2210	2235	2200	2175
2055	2040	1970	2045	2100	2185	2145	2145	2145	2060	2055	2100	2095	2125	2120	1985	2030	1985	2030	1920	1970	2065	2080	2135	2220	2210	2225	2215	2160
2055	2025	2080	2095	2050	2135	2160	2115	2120	2065	2035	2075	2115	2165	2105	2080	2140	2020	2020	2065	2015	2040	2095	2195	2305	2205	2215	2210	2175
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2040	2015	2065	2075	2125	2130	2085	2120	2150	2075	2085	2085	2270	2140	2340	1965	2100	2190	2090	2060	2035	2025	2015	2185	2210	2110	2145	2190	2200
2055	2075	2095	2050	2065	2150	2095	2095	2140	2095	2070	2070	2110	2115	2165	2360	2090	2060	2040	2055	2065	2055	2000	2130	2095	2105	2115	2145	2160
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2050	2025	2065	2105	2065	2095	2110	2110	2130	2100	2130	2080	2210	2150	2405	2175	1985	2120	2045	2140	2035	2060	1970	2110	2100	2065	2115	2140	2165
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2030	2025	2045	2100	2040	2070	2075	2100	2135	2085	2120	2115	2100	2145	2160	2110	2150	2535	2095	2115	2025	2090	2100	2120	2105	2065	2105	2115	2155
2040	2020	2015	2090	2130	2040	2085	2095	2140	2100	2085	2110	2180	2210	2150	2045	2290	2020	2050	2090	2045	2120	2105	2150	2085	2075	2100	2115	2155
2020	2000	2000	2070	2030	2070	2080	2135	2120	2075	2080	2120	2090	2180	2150	2075	2105	2120	2025	2075	2070	2135	2130	2125	2095	2100	2070	2090	2120
1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950



O E

40 E

76 E

104 E

113 1 50 E

160 E

O S

14 S

14 S

24 N

24 N