019825

PROPOSED EXPLORATION

ROTO-GRAN-LORNA-JEAN-ARO

MINERAL CLAIMS

April 1 - December 31, 1972

Latitude : 62°25'N

Longitude : 133°45'W

N.T.S. 105-K-5

By:

J. S. BROCK

DYNASTY EXPLORATIONS LIMITED

June, 1972

TABLE OF CONTENTS

LIST OF CLAIMS
CLAIM MAP
INTRODUCTION 1
LOCATION AND ACCESS 1
PREVIOUS WORK 2
REGIONAL GEOLOGY 2
GEOLOGY 3
GEOPHYSICAL INTERPRETATION 6
PROPOSED EXPLORATION 8
CONCLUSIONS 10

Appendix I - Proposed Drill Sites
Appendix II - Compilation Map- Ground Geophysics & Geochem Surveys
Appendix III - Compilation Map - Airborne Geophysics
Appendix IV - Regional Geology

TELEPHONE 685-4331

DYNASTY EXPLORATIONS LIMITED

330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

PROPOSED EXPLORATION
ROTO-GRAN-LORNA-JEAN-ARO
MINERAL CLAIMS
TINTINA PROJECT

INTRODUCTION

Dynasty Explorations Limited undertook a program of outlining and delineating airborne magnetic and electromagnetic anomalies in the northwestern portion of the Anvil phyllite belt which contains three known lead-zinc deposits. Several anomalies similar to ones caused by known deposits occur in an area of favourable stratigraphy and nearby granitic intrusives and were thought to warrant further investigation. During 1970 a total of 208 claims were staked in five contiguous groups covering prominent anomalies.

Ground magnetometer, geochemical and geological surveys as well as diamond drilling were conducted during the 1970 field season. During the 1971 field season the drill and associated equipment was moved off the property and the claims were mapped on one-quarter mile scale. The proposed airborne electromagnetic survey (Turair survey) was not attempted due to unsatisfactory operational techniques.

Proposed work for the 1972 season includes further geologic mapping and a diamond drilling program.

LOCATION AND ACCESS

The Lorna-Roto-Gran-Jean-Aro claims are located along anvil Creek, roughly centred at longitude 133°45'W and latitude 62°25'N., approximately 18 miles northwest of Faro and 7 miles northwest of Rose Mountain. Access is by road to either Faro or the Anvil minesite, then by helicopter to the property.

PREVIOUS WORK

Exploration to date on the Lower Anvil Creek properties has involved the following:

1970	- Geology	- Preliminary regional mapping and geological reconnaissance.
	- Geochemistry	- Regional silt sampling - Sidehill contour soil sampling - Soil sampling on grids over geophysical anomalies.
	- Geophysics	- Interpretation of aeromagnetic and A.E.M. data from previous surveys. - Electromagnetic, magnetic and gravity surveys.
	- Diamond Drilling	- One hole on geophysical anomaly on 'Lorna' grid.
1971	- Geology	- Detailed geologic mapping of stratigraphic and structural features projected northwest of Faro deposits.
	- Diamond Drilling	- Removal of drilling equipment
	- Geophysics	- Proposed Turair survey and unsuccessful attempt over the Faro orebody.

REGIONAL GEOLOGY

The Anvil Range, located in the eastern portion of the Selwyn Basin, northeast of the Tintina Trench, consists of a 20-mile wide by 50-mile long belt of Proterozoic and Paleozoic strata. This succession of strata, dominated by Cambrian to Eocambrian quartz mica and phyllite, forms the Anvil Arch, a northwest-trending asymmetric antiform with an elongate intrusive, the Anvil Batholith, in the core. In the southeast portion of the district, the amplitude of the Anvil Arch diminishes

resulting in a shallow broad basin. A simplified geologic section consists of quartz mica schist and calc-silicates overlain by phyllite which, in turn, is unconformably overlain by late Paleozoic volcanics and sediments. Structurally, this area has had a complex history of at least five deformations during regional metamorphism. Major faults are oriented in a northwest direction parallel to the Tintina Trench, as well as northeast. The Tintina Fault system, at least 600 miles long, is a zone of major transcurrent faulting on which about 250 miles of right lateral displacement has been postulated (Templeman-Kluit).

The major massive sulphide deposits occur at the same stratigraphic level within the phyllite unit. Increasing metamorphic grade paralleled by an increase in sulphide grain size, increasing pyrrhotite content with metamorphism and elongation of deposits paralleling deformational fabrics, indicate that the sulphides were affected during regional metamorphism. The pre-metamorphic emplacement, coupled with similar average metal content, uniform lead-zinc ratios, and similar textures and mineralogy, and some stratigraphic control, may indicate a syngenetic origin.

GEOLOGY

The claims included in the Roto-Gran-Lorna-Jean and Aro groups form a contiguous block centred on Anvil Creek. The Anvil Creek claims are underlain by favourable phyllite although previous mapping has not discerned between non-quartz and quartz-rich phyllite. The belt of phyllites, bordered on the north and south by intrusive, are largely covered by fluvial glacial material deposited in the Anvil Creek Valley. Overburden depths in excess of 200 feet are common. Lack of outcrop makes geologic interpretation and correlation with stratigraphy farther to the east difficult. During late 1970

a drill hole tested a coincident magnetic-gravity anomaly on the Lorna Group. Massive greenstone and chlorite schist belonging to Unit 3d was encountered throughout the hole. The total depth of the drill hole was 576 feet with the initial 150 feet being overburden.

Regional mapping carried out during the 1971 season was unsuccessful in tracing the quartz-rich phyllite northwest of the Anvil Mine. Between the mine and the Anvil Creek fault there is fair geologic correlation indicating the contact of Units 2b and 3b with the absence of Units 3a and 2d. Northwest of the Anvil Creek fault the overburden covered Anvil Creek Valley conceals much of the narrow belt of Units 2 and 3. Stratigraphically, the Anvil Creek claims cover Unit 3a, if indeed this unit does exist below the gravel deposits found throughout the Lower Anvil Creek area.

Roto Group

Bedrock is exposed only in the northern part of the claim group, where massive horizons of amphibolite alternate with phyllite outcrop periodically. The stratigraphy dips gently to the south and under the main part of the claim group. Mineralization is confined to a few specks of pyrrhotite in the phyllite. The amphibolite is quite magnetic and its ubiquity in the area could explain the broad mag anomalies. A strange metallic mineral was found in massive amphibolite on line E32 at station 1300N; it is not unlike galena, however, its presence in amphibolite leaves some doubt as to its identity. In general, the crystals are too minute to see with a hand lens. The mineral is metallic, has a black streak and a hardness of about 4. It makes up about 1-2% of the whole rock.

Lorna Group

This group, located on the south side of Anvil Creek, is underlain by southerly-dipping black phyllites and mica-quartz schist intercalated with minor amphibolite horizons. No mineralization apart from some pyrrhotite and specks of galena in quartz was found on the group. Sericitic alteration in the mica-quartz schist as well as alteration in greenstones were observed along the cliffs outcropping on Anvil Creek. Stratigraphically and structurally, the Lorna is well located since it overlies the phyllite-mica-quartz schist contact.

Gran Group

No outcrop was observed on this group except for granite along its north boundary. Mapping to the southwest and north of the group suggests that the Gran is underlain partly by granite in possible contact with mica-quartz schist and/or phyllites.

Jean Group

No outcrop was observed on this property. However, mapping carried out along regional strike indicates that the claims could be underlain by phyllites. The proximity of the mica-quartz schist contact is unknown, however, it appears that the group may be too 'high' up in the phyllites.

Aro Group

Much of the Aro group appears to overlie quartz biotite-sericite schist and possibly quartz-rich phyllite. Outcrop of quartz biotite-sericite schist in the Anvil Creek canyon is slightly altered by the nearby intrusive. Minor pyrite and pyrrhotite are disseminated throughout as well as traces of galena. This claim group is stratigraphically well located.

GEOPHYSICAL INTERPRETATION

A brief description of the general geophysical and geological features of each of the Lower Anvil Creek properties follows.

Lorna Group

Geologic, geochemical and geophysical surveys, as well as diamond drilling, so far have suggested that the existing geophysical anomalies are caused by a denser greenstone body. However, greenstone units have been mapped in close proximity to the Faro orebody as well as the Vangorda deposit. Further work is warranted to determine if the geophysical anomalies are caused by greenstone alone. An electromagnetic survey over magnetic and gravity anomalies will indicate the conductiveness of the causative mass. Additional gravity surveys should also be done to detail the existing gravity anomaly and provide additional information for location of future drill holes.

Roto Group

Exploration work carried out on the Roto Group outlined a possible greenstone body within phyllitic rocks. Plans are to extend the present survey grid to the west over an airborne electromagnetic anomaly and to conduct electromagnetic and gravity surveys in that area.

Drilling of existing geophysical targets will be done in 1972. At the same time, selected deep drilling is planned to properly locate the stratigraphic position of the phyllite unit.

Gran Group

The Gran mineral claims cover a quartz-mica schist unit contacting the Anvil Batholith. The geologic setting is similar to that of the Faro claims were quartz-mica schist is found above ore. Coincident airborne magnetic and electromagnetic responses have been defined on the property. Further ground follow-up surveys are required to better position drill targets.

Jean Group

Two reconnaissance lines of gravimetric survey did not conclusively indicate a causative structure coincident with airborne geophysical targets on the Jean claims. In order to properly explore the potential of the Jean Group, a control picket-line grid must be established, deep penetrating electromagnetic surveys run, followed up by drill testing of conductors.

Aro Group

The Aro Group was staked to cover airborne magnetic and electromagnetic anomalies to the west and north of the Lorna claims. The Aro claims are stratigraphically well lcoated, covering a band of quartz-sericite schist, the host for the massive sulphide deposits in the Anvil Range. The proposed budget will provide funds for detailed ground geophysical, geochemical and geological surveys to assess the airborne anomalies.

PROPOSED EXPLORATION

Drilling of numerous geophysical targets and other specific areas for additional geologic information is recommended for a continuation of this program through 1972. Further 'fill-in' geophysical surveys are also required.

Emphasis on a continued regional geologic mapping program to further define the limits of the phyllite unit is also warranted. Regional and detailed mapping should be continued throughout areas of 'open' ground where quartz rich phyllite probably occurs. The large area located north of the Lower Anvil Creek claims, west of Anvil Creek, and southwest of Anvil Lakes containing phyllite and schist should also be investigaged by detailed geologic mapping.

Additional claim staking of geophysical anomalies found over areas of favourable geology will be carried out in anticipation of follow-up drilling.

Certain areas of conductive response will be further investigated with gravity and magnetic surveys.

Of primary importance is the need for drill information from existing target areas. In view of this, drill holes to a maximum depth of 600 feet are recommended.

Rock geochemical analysis will be carried out on all holes drilled to aid in logging as well as to possibly follow significant geochemical trends within the individual rock units.

Overburden samples will also be taken for geochemical analysis in the hope that subsurface sulphide float trains, not geochemically obvious from surface sampling, may be mapped.

Drilling is recommended for the Following targets:

Lower Anvil Creek Claims

Hole No.	Location	Target
72-32	Gran Claims	Gravity anomaly on flank of magnetic anomaly in close relation to zinc geochemical anomaly in silts.
72-33	Gran Claims	Gravity anomaly coincident with zinc in soils
72-34	Aro Claims	Drill test for geologic information to confirm presence of phyllite host.
72-35	Aro Claims	Drill test for geologic information to confirm presence of phyllite host. H.E.M. conductor
72-36	Roto Claims	Drill hole for geologic information, aeromagnetic anomaly.
72-37	Roto Claims	Gravity anomaly
72-38	Roto Claims	Gravity anomaly
72-39	Roto Claims	Gravity anomaly coincident with zinc in soils.
72-40	Roto Claims	Magnetic-gravity anomaly coincidence. Magnetic-H.E.M. anomaly coincidence.
72-41	Gran Claims	H.E.M. conductor
72-42	Lorna claims	Aeromagnetic anomaly
72-43	Roto Claims	H.E.M. conductor axis

CONCLUSIONS

The Anvil Range is an area holding a high potential for discovery of massive lead-zinc deposits. Although the source and process of mineralization is still unknown, all major zinc-lead mineralization is apparently stratigraphically controlled. The Faro orebodies, the Swim, Vangorda, Champ and Firth deposits, as well as the Sea showings, occur in quartzite within Unit 3a, the quartz-rich phyllite. Pre-metamorphic emplacement is proposed since the deposits have features common to metamorphosed ores. Structural controls of ore deposition, if any, have been obliterated by metamorphism. Only through recent exploration has the extent and potential of the quartz-rich phyllite host been realized. Detailing of such areas with geophysics and follow-up drilling will be an integral part of continued exploration as based on previous success with similar programs.

The success of the exploration leading to the discovery of the Faro orebodies was based on thorough prospecting of 'elephant country' for geophysical anomalies of a certain size and particular type. Further exploration of the area is warranted. Other major deposits can be discovered at depth in the district with recent better-developed and improved exploration techniques because the known discoveries all occur at the present fortuitous bedrock erosion surface, sizeable areas therefore remain relatively unexplored. Numerous, more subtle geophysical targets, have not been investigated by more detailed interpretations and drilling. Refinements in geologic, geochemical and geophysical approach using previous methods as a base will undoubtedly reveal other deposits in the area. Modifications of the electromagnetic method both for airborne and ground surveys, to allow greater depth penetration and conductor discrimination coupled with gravimetric detailing of all conductors, has been found to be the best method of continued geophysical

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

Northern Mineral Exploration Program

Note: 1. This sheet must accompany the application for assistance.
2. It must be completed anew at the conclusion of the approved exploration program to show actual expenditures, and is to be submitted under oath with the request for grant payment.
3. "Units" refers to units of performance such as feet of drilling, line miles of surveys, hours of flying time, etc.

Property LOWER ANVIL CREEK CLAIMS (Lorna, Jean, Roto, Gran, Aro Claims) — Claim Sheet No. .....

Name of Company DYNASTY EXPLORATIONS. — Lat. 62°26'.... Long. 133°45'

Program to be carried out between May 1st, 1972 and October 31, 1972

Mining Exploration Program	ESTIMATED		ACTUAL		Inspection Field Check
	Units	Expenditure	Units	Expenditure	
(a) Consultants Fees					
(b) Field Supervision					
Mobilization and Demobilization of Program					
(a) Transportation	Ground Transpt. Bombardier, Cat, Nodwell, etc.	2,000.00	✓		
(b) Freight					
(c) Road Construction					
Exploration Work					
(a) Mapping & Prospecting					
(b) Surveys					
(i) Geological	Grid mapping & core logging	6,600.00	✓		
(ii) Geophysical					
(iii) Geochemical					
(iv) Evaluation					
(c) Trenching					
(d) Dia. Drilling–(surface)	3000 feet	39,000.00	✓		
(e) Shaft Sinking					
(f) Underground Expl.....					
(i) Drifts & Crosscuts					
(ii) Raising					
(iii) Dia. Drilling					
(iv) Servicing					

AND 52-155 (5-68)

Mining Exploration Program	ESTIMATED Units	ESTIMATED Expenditure	ACTUAL Units	ACTUAL Expenditure	Inspection Field Check
Miscellaneous sampling and Assays.					
Camp Construction					
Camp Operation					
(a) Supplies		1,000.00			
(b) Heating					
(c) Maintenance					
7. Rental of Equipment					
Depreciation					
Major Transportation for Field Support or Service					
(i) Fixed Wing Aircraft					
(ii) Rotary Wing Aircraft	20 hrs.@$150	3,000.00			
1 Communications					
1 Other	Expediting & non-direct costs	2,500.00			
1 General and Administrative Expenses (includes head office and field office administration; attach list of details).	at 10%	5,000.00			
TOTAL		59,100.00			

Signature

S. B. JONES
VICE-PRESIDENT - CORPORATE

Title

Inspecting Officer

June 26th, 1972

Date

exploration in selected geologic environments of the Anvil area. All targets will have to be systematically drilled without exception since the most obvious massive sulphide targets would appear to have been found.

The current holdings of Dynasty Explorations within the Anvil area are well located with respect to the quartz-rich phyllite section that hosts other massive sulphide deposits in the area. All properties require extensive drill testing of geophysical anomalies closely related to similar magnetic, electromagnetic and gravimetric expressions over known sulphide occurrences found in the Anvil Range.

Respectfully submitted,

John S. Brock,
Vice-President Exploration

June, 1972

ROTO

CREEK

FAIR

ARO

LORNA

GRAN

ARO

NVIL

OJEAN

AINN

MI

BERY

SCALE: 1" = ½ mile

YOUNGER VOLCANICS AND SEDIMENTS

KEY MAP
SCALE - 4 MILES

SHEET 4
SHEET 3
SHEET 5
SHEET 6

KEY MAP

SCALE 1" = 4 MILES

SHEET 1 | SHEET 2 | SHEET 3 | SHEET 4 | SHEET 5

GRAN

JEAN

ARO

ARO

LORNA

E

E

D

RECEIVED
23 JUN 1972
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

GEOLOGIC, GEOPHYSICAL AND DIAMOND DRILLING REPORT ON THE ROTO-GRAN-LORNA-JEAN-ARO CLAIMS TINTINA PROJECT

Anvil District
Yukon Territory

RECEIVED
JUN 23 1972
MINING
INSPECTORS OFFICE
WHITEHORSE, Y.T.

Longitude: 133°45'W
Latitude : 62°25'N

N.T.S. 105-K-5

Field work done in the period
November 1,1970 - September 30,1971

BY

JOHN S. BROCK

DYNASTY EXPLORATIONS LIMITED

May, 1972

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of
$ 8102.17

M. W. Milnes (for)
Resident Geologist or
Resident Mining Engineer

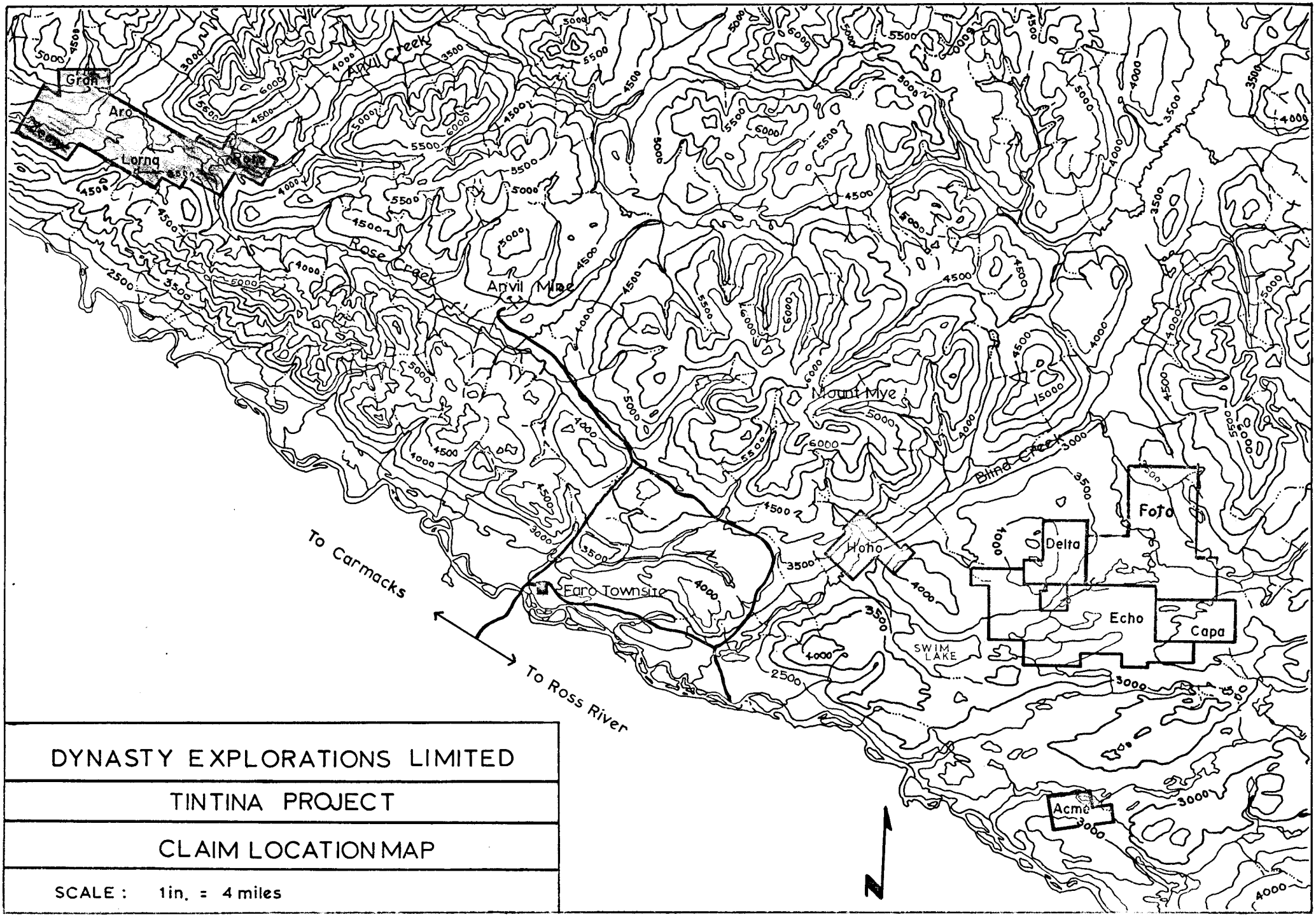
Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

Commissioner of Yukon Territory

LIST OF CLAIMS

Name		Grant No.	Recording Date
LORNA	2-20	Y54100-Y54118	August 10, 1970
GRAN	19-24	Y58137-Y58142	August 31, 1970
ARO	6-34	Y59720-Y59748	November 19, 1970
	49	Y59755	November 19, 1970
ROTO	17-27	Y58159-Y58169	August 31, 1970
	31-40	Y58173-Y58182	August 31, 1970
	42	Y58184	August 31, 1970
	44	Y58186	August 31, 1970
	46	Y58188	August 31, 1970
	48	Y58190	August 31, 1970
	50	Y58192	August 31, 1970

Claims to which assessment work is applied.



DYNASTY EXPLORATIONS LIMITED

TINTINA PROJECT

CLAIM LOCATION MAP

SCALE : 1in. = 4 miles

TABLE OF CONTENTS

	Page
LIST OF CLAIMS	
LOCATION MAP	
INTRODUCTION	1
LOCATION AND ACCESS	1
PREVIOUS WORK	2
REGIONAL GEOLOGY	2
TABLE OF GEOLOGIC FORMATIONS	3a
GEOLOGY	3
GEOPHYSICAL INTERPRETATION	6
PROPOSED EXPLORATION	7
CONCLUSIONS	8

Appendix I - Claim Map

Appendix II - Sheet 5 - Geology Map
Sheet 6 - Geology Map

Appendix III - List of Personnel

Appendix IV - Summary of Costs

Appendix V - Affidavit Supporting Summary of Costs

Appendix VI - Vouchers Supporting Costs

TELEPHONE 685-4331

DYNASTY EXPLORATIONS LIMITED

330 MARINE BUILDING
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TABLE OF GEOLOGIC FORMATIONS

AGE	PROBABLE THICKNESS		
TERTIARY		14b	14b — FINELY LAMINATED, LIGHT GREY, RHYOLITIC TUFF. (913)
		14a	14a — APHANITIC, LIGHT GREENISH TO REDDISH QUARTZ FELDSPAR PORPHYRY. (926)
CRETACEOUS TO TERTIARY		13	13 — SAUSSURITIZED PORPHYRITIC HORNBLENDE DIORITE. (942)
	INTRUSIVE	12	12 — WEATHERING RUSTY BROWN, MEDIUM GRAINED, DARK GREEN-GREY, EQUIGRANULAR ALTERED PYROXENITE AND HORNBLENDE DIORITE. (928)
CRETACEOUS	INTRUSIVE	11	ANVIL BATHOLITH 11 — MEDIUM GREY, EQUIGRANULAR BUT LOCALLY PORPHYRITIC AND FOLIATED, HYPIDIOMORPHIC, MEDIUM GRAINED QUARTZ MONZONITE BUT RANGES FROM BIOTITE QUARTZ MONZONITE TO BIOTITE GRANODIORITE. (929)
TRIASSIC	300'	10a	10a — THIN BEDDED, PLATY, MEDIUM GREY CALCAREOUS SLATE, WITH LOCALLY INTERBEDDED FINE GRAINED ARGILLACEOUS LIMESTONE.
TRIASSIC	2000'	10	10 — BROWN-WEATHERING CONGLOMERATE WITH QUARTZITE, SCHIST GRANITE GNEISS, BASALT, CHERT AND LIMESTONE PEBBLES. (944)
U. PERMIAN TO TRIASSIC		9	9 — DARK GREEN TO BLACK SERPENTINITE AND RELATED PERIDOTITE. (907)
U. PERMIAN		8c	ANVIL RANGE GROUP 8c — ORIGINALLY LIGHT GREY CRINOIDAL OR BIOCLASTIC LIMESTONE, NOW RECRSTALLIZED. WEATHERS BUFF, CONTAINS MINOR QUARTZ, ESSENTIALLY A SPARITE. (906)
PERMIAN	1500'	8b	8b — MEDIUM TO DARK GREEN, MASSIVE, BASALTIC VARIETIES INCLUDING TUFFS, MASSIVE AMYGDALOIDAL FLOWS, PILLOWS AND PYROCLASTIC TYPES. (908)
L. PERMIAN	2000'	8a	8a — PALE GREEN, GREENISH BROWN, LIGHT GREY MASSIVE TO THIN BEDDED ARGILLACEOUS AND TUFFACEOUS CHERT, WEATHERS OFF-WHITE LOCALLY BRICK RED DUE TO HEMATITE (JASPER), LOCALLY BRECCIATED. (925)
U. DEVONIAN TO MISSISSIPPIAN		7	7 — DARK GREY TO BLACK, MASSIVE TO THICK BEDDED, GRAPHITIC CHERT, ASSOCIATED DARK GREY GRAPHITIC CHERTY ARGILLITE AND ARGILLACEOUS SILTSTONE, MINOR ARGILLACEOUS LIMESTONE, GREYWACKE AND CHERT PEBBLE CONGLOMERATE (918)
M. DEVONIAN	100'	6	6 — THIN BEDDED, PLATY, BLACK, CARBONACEOUS FETID CRINOIDAL LIMESTONE TO MASSIVE BUFF WEATHERING GREY BIOCLASTIC DOLOMITE. (905)
SIL. DEVONION	50'	5	5 — MASSIVE MED. TO LIGHT GREY, MED-COARSE GRAINED ORTHOQUARTZITE. (927)
ORDOVICIAN SILURIAN	400'	4	4 — GRAPTOLITIC BLACK CARBONACEOUS SLATE, BLACK SILTY SHALE, ARGILLITE, MINOR BLACK CHERT BANDS, MINOR PYRITE. (949)
MIDDLE UPPER CAMBRIAN ?	4000'+	3d	3d — "GREENSTONE" - DARK TO PALE GREEN FOLIATED TO MASSIVE AMPHIBOLITE, CHLORITIC TUFF, AND ANDESITE. (911)
		3c	3c — THINLY LAMINATED SILTY LIMESTONE, ALTENATING LAMINAE OF PHYLLITE AND SILTY FINE GRAINED GREY LIMESTONE. (920)
		3b	3b — SILVERY GREY WEATHERING, GREY TO BLACK FOLIATED SERICITE CHLORITE, BIOTITE, GRAPHITE PHYLLITE. CAN CONTAIN LARGE GREENSTONE LENSES. (934)
		3a	3a — LIGHT TO DARK GREY, BLACK QUARTZ SERICITE, BIOTITE, CHLORITE, PHYLLITE. ALSO INCLUDES QUARTZ GRAPHITE PHYLLITE (3aq) AND QUARTZITE (3aq). GENERALLY CONTAINS SMALL GREENSTONE LENSES. (931)
LOWER CAMBRIAN ?	2000'+	2e	2e — DARK GREEN MASSIVE AMPHIBOLITE OCCURING AS LENSES THROUGHOUT UNIT 2. (921)
		2d	2d — TAN WEATHERING MEDIUM GRAINED QUARTZ BIOTITE SERICITE (MUSCOVITE) SCHIST WITH ANDALUSITE, GARNETS, AND STAUROLITE. (941)
		2c	2c — MASSIVE WHITE TO CREAMY CRYSTALLINE LIMESTONE TO MARBLE. (903)
		2b	2b — WHITEISH WEATHERING, BANDED PALE TO DARK GREEN, PURPLISH BROWN BANDED CALC-SILICATES WITH PHYLLITIC AND SCHISTOSE PARTINGS. (916)
		2a	2a — BROWN WEATHERING, MEDIUM TO COARSE GRAINED QUARTZ BIOTITE SCHIST WITH MINOR MUSCOVITE ANDALUSITE, GARNET AND STAUROLITE PORPHYROBLASTS COMMON. (947)
PROTEROZOIC		1	"GRID UNIT" 1 — GREY WEATHERING MEDIUM - DARK GREY, MUSCOVITE METAQUARTZITE LOCALLY COLOUR BANDED, MINOR CHLORITE, TOURMALINE AND CARBONATE INTERFOLIATED BLACK GRAPHITIC QUARTZITE COMMON. (943)

a drill hole tested a coincident magnetic-gravity anomaly on the Lorna Group. Massive greenstone and chlorite schist belonging to Unit 3d was encountered throughout the hole. The total depth of the drill hole was 576 feet with the initial 150 feet being overburden.

Regional mapping carried out during the 1971 season was unsuccessful in tracing the quartz-rich phyllite northwest of the Anvil Mine. Between the mine and the Anvil Creek fault there is fair geologic correlation indicating the contact of Units 2b and 3b with the absence of Units 3a and 2d. Northwest of the Anvil Creek fault the overburden covered Anvil Creek Valley conceals much of the narrow belt of Units 2 and 3. Stratigraphically, the Anvil Creek claims cover Unit 3a, if indeed this unit does exist below the gravel deposits found throughout the Lower Anvil Creek area.

Roto Group

Bedrock is exposed only in the northern part of the claim group, where massive horizons of amphibolite alternate with phyllite outcrop periodically. The stratigraphy dips gently to the south and under the main part of the claim group. Mineralization is confined to a few specks of pyrrhotite in the phyllite. The amphibolite is quite magnetic and its ubiquity in the area could explain the broad mag anomalies. A strange metallic mineral was found in massive amphibolite on line E32 at station 1300N; it is not unlike galena, however, its presence in amphibolite leaves some doubt as to its identity. In general, the crystals are too minute to see with a hand lens. The mineral is metallic, has a black streak and a hardness of about 4. It makes up about 1-2% of the whole rock.

Lorna Group

This group, located on the south side of Anvil Creek, is underlain by southerly-dipping black phyllites and mica-quartz schist intercalated with minor amphibolite horizons. No mineralization apart from some pyrrhotite and specks of galena in quartz was found on the group. Sericitic alteration in the mica-quartz schist as well as alteration in greenstones were observed along the cliffs outcropping on Anvil Creek. Stratigraphically and structurally, the Lorna is well located since it overlies the phyllite-mica-quartz schist contact.

Gran Group

No outcrop was observed on this group except for granite along its north boundary. Mapping to the southwest and north of the group suggests that the Gran is underlain partly by granite in possible contact with mica-quartz schist and/or phyllites.

Jean Group

No outcrop was observed on this property. However, mapping carried out along regional strike indicates that the claims could be underlain by phyllites. The proximity of the mica-quartz schist contact is unknown, however, it appears that the group may be too 'high' up in the phyllites.

Aro Group

Much of the Aro group appears to overlie quartz biotite-sericite schist and possibly quartz-rich phyllite. Outcrop of quartz biotite-sericite schist in the Anvil Creek canyon is slightly altered by the nearby intrusive. Minor pyrite and pyrrhotite are disseminated throughout as well as traces of galena. This claim group is stratigraphically well located.

GEOPHYSICAL INTERPRETATION

A brief description of the general geophysical and geological features of each of the Lower Anvil Creek properties follows.

Lorna Group

Geologic, geochemical and geophysical surveys, as well as diamond drilling, so far have suggested that the existing geophysical anomalies are caused by a denser greenstone body. However, greenstone units have been mapped in close proximity to the Faro orebody as well as the Vangorda deposit. Further work is warranted to determine if the geophysical anomalies are caused by greenstone alone. An electromagnetic survey over magnetic and gravity anomalies will indicate the conductiveness of the causative mass. Additional gravity surveys should also be done to detail the existing gravity anomaly and provide additional information for location of future drill holes.

Roto Group

Exploration work carried out on the Roto Group outlined a possible greenstone body within phyllitic rocks. Plans are to extend the present survey grid to the west over an airborne electromagnetic anomaly and to conduct electromagnetic and gravity surveys in that area.

Drilling of existing geophysical targets will be done in 1972. At the same time, selected deep drilling is planned to properly locate the stratigraphic position of the phyllite unit.

Gran Group

The Gran mineral claims cover a quartz-mica schist unit contacting the Anvil Batholith. The geologic setting is similar to that of the Faro claims were quartz-mica schist is found above ore. Coincident airborne magnetic and electromagnetic responses have been defined on the property. Further ground follow-up surveys are required to better position drill targets.

Jean Group

Two reconnaissance lines of gravimetric survey did not conclusively indicate a causative structure coincident with airborne geophysical targets on the Jean claims. In order to properly explore the potential of the Jean Group, a control picket-line grid must be established, deep penetrating electromagnetic surveys run, followed up by drill testing of conductors.

Aro Group

The Aro Group was staked to cover airborne magnetic and electromagnetic anomalies to the west and north of the Lorna claims. The Aro claims are stratigraphically well lcoated, covering a band of quartz-sericite schist, the host for the massive sulphide deposits in the Anvil Range. The proposed budget will provide funds for detailed ground geophysical, geochemical and geological surveys to assess the airborne anomalies.

PROPOSED EXPLORATION

Drilling of numerous geophysical targets and other specific areas for additional geologic information is recommended for a continuation of this program through 1972. Emphasis on a continued regional geologic mapping program to further define the limits of the phyllite unit is also warranted.

CONCLUSIONS

The Anvil Creek properties hold good possibilities for discovery of a large lead-zinc orebody. The claims, cover a portion of the belt on strike with the linear trend of known deposits; cover favourable stratigraphy; and cover several geophysical anomalies similar in character to others caused by the known sulphide deposits in the area. Further geologic information is required to assess this area.

Respectfully submitted,

J. S. Brock,
Vice-President Exploration

May, 1972

DYNASTY EXPLORATIONS LIMITED

TINTINA - ANVIL PROJECT

LOWER ANVIL CREEK AREA
ROTO, GRAN, JEAN, LORNA, ARO CLAIMS

PROPOSED DRILL SITES

LEGEND:

- ● LR-1 — PREVIOUS DRILL SITES
- ○ 72-1 — PROPOSED DRILL SITES

SCALE 1320

ROSE CREEK

N

GRAN

ARO

ROTO

JEAN

LORNA

ANVIL CREEK

ROSE CREEK

L 32 E
L 24 E
L 16 E
L 8 E
BL 0+00
L 8 W
L 16 W
L 24 W
L 32 W
L 40 W
BL 4+00 S
BL 6+00 S
BL 0+00

MAGNETIC SURVEY: 1970

MAGNETIC SURVEY: 1970 (DYNASTY)

MAG SURVEY: 1970

TRANSVERSE SURVEY: 1970 (DYNASTY)

PEAK: 0.6 mg

PEAK: 0.8 mg

PEAK: 0.4 mg

PEAK: 0.5 mg

RECALCULATED TO 1.6 mg by JSE

MAG SURVEY DATE: 1970 (DYNASTY) (MF-) MAGNETOMETER
GRAVITY SURVEY DATE: 1970 (GOODLAND EXP. SERVICES)

DYNASTY EXPLORATIONS LIMITED

TINTINA - ANVIL PROJECT

LOWER ANVIL CREEK AREA
ROTO, GRAN, JEAN, LORNA, ARO CLAIMS

COMPILATION MAP
Ground Geophysics & Geochem Surveys, East half Sheet 6, West half Sheet 5

LEGEND :

- GRAVITY ANOMALY
- MAGNETIC ANOMALY
- ELECTROMAGNETIC ANOMALY
- GEOCHEMICAL ANOMALY

SCALE 1" = 1320'

DYNASTY EXPLORATIONS LIMITED

TINTINA - ANVIL PROJECT

LOWER ANVIL CREEK AREA
ROTO, GRAN, JEAN, LORNA, ARO CLAIMS

COMPILATION MAP
Airborne Geophysics East half sheet 6, West half sheet 5

Legend:
- ELECTROMAGNETIC ANOMALIES
- AEROMAGNETIC ANOMALIES

SURVEYS BY: LOCKWOOD SURVEY CORP., 1965
DATA PLOTTED AT 1:1320 JANUARY, 1972

SCALE 0 1000 2000 3000
1" = 1320'

LEGEND

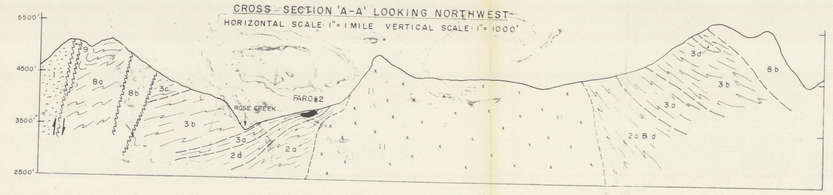
AGE	PROBABLE THICKNESS		
TERTIARY		14b	14b — FINELY LAMINATED, LIGHT GREY, RHYOLITIC TUFF. (915)
		14a	14a — APHANITIC, LIGHT GREENISH GREY TO REDDISH QUARTZ PHYRIC RHYOLITE.
CRETACEOUS TO TERTIARY		13	13 — QUARTZ-FELDSPAR PORPHYRITIC HORNBLENDE ± QUARTZ DIORITE.
		12	12 — WEATHERING BUFF, BROWN, WEATHERED SURFACES HAVE A SUGARY APPEARANCE, ANGULAR ALTERED PYROXENE AND HORNBLENDE GRAINS IN A
		11	ANVIL BATHOLITH — MEDIUM GREY, EQUIGRANULAR, PORPHYRITIC AND FOLIATED TO MEDIUM GRAINED QUARTZ MONZONITE RANGES FROM BIOTITE QUARTZ MONZONITE TO BIOTITE GRANODIORITE. (928)
TRIASSIC ?	300'	10a	10a — THIN BEDDED, PLATY, MEDIUM GREY CALCAREOUS SLATE, WITH LOCALLY INTERBEDDED FINE GRAINED ARGILLACEOUS LIMESTONE.
TRIASSIC	2000	10	10 — BROWN WEATHERING CONGLOMERATE WITH QUARTZITE, SCHIST GRANITE GNEISS, BASALT, CHERT AND LIMESTONE PEBBLES. (944)
U. PERMIAN TO TRIASSIC		9	9 — DARK GREEN TO BLACK SERPENTINITE AND RELATED PERIDOTITE. (907)
U. PERMIAN		8c	ANVIL RANGE GROUP 8c — ORIGINALLY LIGHT GREY CRINOIDAL OR BIOCLASTIC LIMESTONE, NOW RECRSTALLIZED WEATHERS BUFF, CONTAINS MINOR QUARTZ, ESSENTIALLY A SPARITE. (906)
PERMIAN	1500'	8b	8b — MEDIUM TO DARK GREEN, MASSIVE, BASALTIC VARIETIES INCLUDING TUFFS, MASSIVE AMYGDALOIDAL FLOWS, PILLOWS AND PYROCLASTIC TYPES. (908)
L. PERMIAN	2000'	8a	8a — PALE GREEN, GREENISH BROWN, LIGHT GREY MASSIVE TO THIN BEDDED ARGILLACEOUS AND TUFFACEOUS CHERT, WEATHERS OFF-WHITE LOCALLY BRICK RED DUE TO HEMATITE (JASPER) LOCALLY BRECCIATED. (925)
U. DEVONIAN TO MISSISSIPPIAN		7	7 — DARK GREY TO BLACK, MASSIVE TO THICK BEDDED, GRAPHITIC CHERT, ASSOCIATED DARK GREY GRAPHITIC CHERTY ARGILLITE AND ARGILLACEOUS SILTSTONE, MINOR ARGILLACEOUS LIMESTONE, GREY-WACKE AND CHERT PEBBLE CONGLOMERATE. (916)
M. DEVONIAN	100'	6	6 — THIN BEDDED, PLATY, BLACK, CARBONACEOUS FETID CRINOIDAL LIMESTONE TO MASSIVE BUFF WEATHERING GREY BIOCLASTIC DOLOMITE. (905)
ML. DEVONIAN	50'	5	5 — MASSIVE MED TO LIGHT GREY, MED-COARSE GRAINED ORTHOQUARTZITE. (927)
ORDOVICIAN SILURIAN	400'	4	4 — GRAPTOLITIC BLACK CARBONACEOUS SLATE, BLACK SILTY SHALE, ARGILLITE, MINOR BLACK CHERT BANDS, MINOR PYRITE. (949)
		3d	3d — "GREENSTONE" DARK TO PALE GREEN FOLIATED TO MASSIVE AMPHIBOLITE, CHLORITIC TUFF, AND ANDESITE. (910)
		3c	3c — THINLY LAMINATED SILTY LIMESTONE, ALTERNATE LAMINAE OF PHYLLITE AND SILTY FINE GRAINED GREY LIMESTONE. (920)
MIDDLE TO UPPER CAMBRIAN ?	4000'+	3b	3b — SILVERY GREY WEATHERING, GREY TO BLACK FOLIATED SERICITE CHLORITE, BIOTITE, QUARTZ PHYLLITE. CAN CONTAIN LARGE GREENSTONE LENSES. (934)
		3a	3a — LIGHT TO DARK GREY, BLACK QUARTZ SERICITE BIOTITE, CHLORITE, PHYLLITE ALSO INCLUDES QUARTZ GRAPHITE PHYLLITE (36g) AND QUARTZITE (36q) GENERALLY CONTAINS SMALL GREENSTONE LENSES. (931)
		2e	2e — DARK GREEN MASSIVE AMPHIBOLITE OCCURING AS LENSES THROUGHOUT UNIT 2. (921)
		2d	2d — TAN WEATHERING MEDIUM GRAINED QUARTZ BIOTITE SERICITE (MUSCOVITE) SCHIST WITH ANDALUSITE, GARNETS, AND STAUROLITE (941)
LOWER CAMBRIAN ?	2000'+	2c	2c — MASSIVE WHITE TO CREAMY CRYSTALLINE LIMESTONE TO MARBLE. (903)
		2b	2b — WHITEISH WEATHERING, BANDED PALE TO DARK GREEN, PURPLISH BROWN BANDED CALC-SILICATES WITH PHYLLITIC AND SCHISTOSE PARTINGS. (916)
		2a	2a — BROWN WEATHERING, MEDIUM TO COARSE GRAINED QUARTZ BIOTITE SCHIST WITH MINOR MUSCOVITE ANDALUSITE, GARNET, AND STAUROLITE PORPHYROBLASTS COMMON. (947)
PROTEROZOIC		1	1 — "GRID UNIT" GREY WEATHERING MEDIUM - DARK GREY, MUSCOVITE METAQUARTZITE LOCALLY COLOUR BANDED, MINOR CHLORITE, TOURMALINE AND CARBONATE INTERFOLIATED BLACK GRAPHITIC QUARTZITE COMMON. (946)

SYMBOLS

- LIMIT OF MAPPING
- FOLIATION
- POSTULATED FOLD AXIS
- DEFINED, ASSUMED FAULTS
- CONTACTS, DEFINED, ASSUMED
- CLAIM BOUNDARIES
- MASSIVE SULPHIDE DEPOSITS

CROSS - SECTION 'A-A' LOOKING NORTHWEST

HORIZONTAL SCALE 1" = 1 MILE VERTICAL SCALE 1" = 1000'



DYNASTY EXPLORATIONS LTD.	
TINTINA ANVIL PROJECT	
REGIONAL GEOLOGY NTS - 105 K 2,3,5,6,& 7	
GEOLOGY :	W.J. ROBERTS, P. DEAN after B. KARVINEN and D. TEMPLEMAN-KLUIT
SCALE:	1" = 1 MILE
DATE:	NOVEMBER, 1971

Appendix III

LIST OF PERSONNEL

Name	Position	Address
J. S. Brock	Vice-President Exploration	Vancouver, B.C.
W. J. Roberts	Geologist	Vancouver, B.C.
H. Horstman	Draftsman	Richmond, B.C.

Contractors

Trans North Turbo Air	Whitehorse, Y.T.
Arctic Diamond Drilling	Whitehorse, Y.T.

Appendix IV

SUMMARY OF COSTS

ROTO-GRAN-LORNA-JEAN-ARO CLAIMS
1971

	Schedule	Geology	Geophysics	Diamond Drilling	Camp	Field Expenses	Rotary Wing	Total
Wages								
General	"A"	773,08	195,62					968.70
Report Writing	"B"	58.66	58.66	58.66				175.98
Expenses								
General	"C"				20.00	112.00		132.00
Contract	"C"			1,960.89				1,960.89
Transptn.	"C"						4,128.04	4,128.04
		831.74	254.28	2,019.55	20.00	112.00	4,128.04	7,365.61
Administration @ 10%								736.56
				TOTAL				$ 8,102.17

TELEPHONE 685-4331

Appendix V

DYNASTY EXPLORATIONS LIMITED

330 MARINE BUILDING
355 BURRARD STREET
VANCOUVER 1, B.C.

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, CLIFFORD MALISH, Accountant, Dynasty Explorations Limited, of Vancouver, British Columbia, do hereby state that, to the best of my knowledge and belief, the statement of cost presented in this report (Geologic, Geophysical and Diamond Drilling Report on the Roto-Gran-Lorna-Jean-Aro Claims) is both correct and true.

Clifford A. Malish

Clifford Malish

June 12, 1972

Date

Notary Public in and for
Yukon Territory

LOWER ANVIL SALARY COST SUMMARY

SCHEDULE "A"

	GEOLOGY	GEOPHYSICS
W ROBERTS	27954	
W HORSTMAN	25515	
J.S. BROCK	10170	10171
M. PARKER	7943	7942
	71582	18113
NON WAGE LABOUR COST @ 8%	5726	1449
	77308	19562

NAME W. Roberts

TYPE OF WORK Geologist

RATE OF PAY

FOR THE MONTH OF September 19 71

DATE	WORK	OFF	FLD. BNS.	CODING	EXPLANATIONS
	✓			Timma	
	✓			OFF	
3	✓			Geology	
	✓				
	✓				
6	✓				
	✓				
	✓				
9	✓				
	✓		FJ	Lower Anvil Creek Properties Inc.	
	✓			Lorna, Roto, Gran, Tran, Ana	
12	✓				
	✓				
	✓				
15	✓				
	✓				
	✓				
18	✓				
		✓		Travel to Vancouver.	
	✓				
21	✓				
		✓			
	✓				
24	—			Travel to Parrish	
27				Hill top Geology.	
28					
29					
30					
1					
TOTAL					

PAYROLL DEPT. USE ONLY

_____ @ _____ _____

_____ @ _____ _____

_____ @ _____ _____

GROSS BEFORE BOARD _____

BOARD _____

GROSS EARNINGS _____

DEDUCTIONS

1) CANADA PENSION _____

2) _____

3) INCOME TAX _____

4) GROUP _____

5) M.S.A. _____

6) ACCTS. REC. _____

7) _____

8) BOARD _____

9) _____

10) UIC _____

11) MID MONTH ADVANCE _____ _____

NET PAY _____

35.71

PAYROLL DEPT. USE ONLY

PROJECT	DAYS	GROSS BEFORE BOARD	FIELD BONUS
61 - 809	~~21~~ 14 ✓	~~750.05~~ 499.98 ✓	
61 - 851 ✓	7 ✓	249.97 ✓	
61 - Lower Anvil	2	71.44	
	28	1000.00	

LABOUR CODING

-01 PROPERTY EXAMINATION
-02 PROSPECTING
-03 STAKING
-04 AIRBORN SURVEYS
-05 LINE CUTTING
-06 GEOLOGY
-07 GEOPHYSICS
-08 GEOCHEMISTRY
-09 DIAMOND DRILLING
-10 PHYSICAL WORK
-11 ACCESS ROADS
-21 CAMP OPERATIONS
91-01 VANC. OFFICE - ADMIN.
92-01 VANC. EXPLORATION OFFICE
93-01 WHITE HORSE BASE
94-01 ROSS RIVER BASE
95-01 GEOCHEM. LAB.
96-01 BULLDOZER

EMPLOYEE _____

APPROVED _____

ATLAS EXPLORATIONS LIMITED — TIME SHEET

NAME: W. Roberts

TYPE OF WORK: Geologist

RATE OF PAY:

FOR THE MONTH OF: November 19 71

DAY	WORK	OFF	FLD. BNS.	CODING	EXPLANATIONS
	✓			Tintina	
	✓			Project	
	✓			Hess - Brown	
	✓			Geology	
	✓				
	✓			Tintina	
	✓			OFY	
	✓			Geology	
	✓				
	✓			Tintina	
	✓			Proj.	
	✓			Lorna, Rob,	
	✓			Gram, Jean, Ken	
	✓			Geology	
	✓			Tintina	
	✓			Project	
	✓			Echo, Delta,	
	✓			Capew Geology	
	✓				
	✓			Tintina Proj	
	✓			Echo Gp.	
TOT					

PAYROLL DEPT. USE ONLY

1 mo	@ 1000.00	10000.
	@	
	@	
GROSS BEFORE BOARD		
BOARD		
GROSS EARNINGS		10000
DEDUCTIONS		
1) CANADA PENSION		
2)		
3) INCOME TAX		
4) GROUP		
5) M.S.A.		
6) ACCTS. REC.		
7)		
8) BOARD		
9)		
10) UIC		
11) MID MONTH ADVANCE		
NET PAY		

LABOUR CODING

-01 PROPERTY EXAMINATION
-02 PROSPECTING
-03 STAKING
-04 AIRBORN SURVEYS
-05 LINE CUTTING
-06 GEOLOGY
-07 GEOPHYSICS
-08 GEOCHEMISTRY
-09 DIAMOND DRILLING
-10 PHYSICAL WORK
-11 ACCESS ROADS
-21 CAMP OPERATIONS
-01 VANC. OFFICE - ADMIN.
-01 VANC. EXPLORATION OFFICE
-01 WHITE HORSE BASE
94-01 ROSS RIVER BASE
-01 GEOCHEM. LAB.
-01 BULLDOZER

PAYROLL DEPT. USE ONLY

PROJECT	DAYS	GROSS BEFORE BOARD	FIELD BONUS
61-845	5	238.09	
61-809	4	190.47	
61-836	1	47.62	
838	1	47.62	
839	1	47.62	208.10
841	1	47.62	
846	1	47.62	
848	2	95.24	
849	2	95.24	
850	3	142.86	
	21	1000.00	

EMPLOYEE: W. Roberts

APPROVED:

ATLAS EXPLORATIONS LIMITED TIME SHEET

NAME HERSTMANN, Walter

TYPE OF WORK Drafting

RATE OF PAY

FOR THE MONTH OF December 19 71

DATE	WORK	OFF	FLD. BNS.	CODING	EXPLANATIONS
	✓			Tintina Dev	
2	✓			Geology.	
3	✓				
6	✓	½		Lorna	
	✓			Roto	
8	✓			Gran	geology.
9	✓			Jean	
1	✓			Aro	
11					
12					
1					
14					
15					
1					
17					
18					
1					
20					
21					
2					
2					
24					
2					
26					
27					
2					
29					
30					
3					
TOTAL					

PAYROLL DEPT. USE ONLY

7½ days	@ 26/DAY	195.00
H.R. 637.00	@ 4%	24.48
	@	
26/DAY		
GROSS BEFORE BOARD		
BOARD		
GROSS EARNINGS		219.48

DEDUCTIONS

1) CANADA PENSION	3.59	
2)		
3) INCOME TAX	16.40	
4) GROUP		
5) M.S.A.		
6) ACCTS. REC.		
7)		
8) BOARD		
9)		
10) U.I.C.	2.80	
11) MID MONTH ADVANCE		22.79
NET PAY		196.69

LABOUR CODING

-01 PROPERTY EXAMINATION
-02 PROSPECTING
-03 STAKING
-04 AIRBORN SURVEYS
-05 LINE CUTTING
-06 GEOLOGY
-07 GEOPHYSICS
-08 GEOCHEMISTRY
-09 DIAMOND DRILLING
-10 PHYSICAL WORK
-11 ACCESS ROADS
-21 CAMP OPERATIONS
-01 VANC. OFFICE - ADMIN.
-01 VANC. EXPLORATION OFFICE
93-01 WHITE HORSE BASE
-01 ROSS RIVER BASE
-01 GEOCHEM. LAB.
-01 BULLDOZER

PAYROLL DEPT. USE ONLY

PROJECT	DAYS	GROSS BEFORE BOARD	FIELD BONUS
61-809	3	78.00	
61-836		23.40	
61-838		23.40	
61 839	4.5	23.40	117.00
61-841		23.40	
61-846		23.40	
HOLIDAY		24.48	

EMPLOYEE Walter Herstmann

APPROVED

A[illegible]AS EXPLORATIONS LIMITED TIME SHEET

NA[illegible]E Wally Horsimann

TYPE OF WORK Draftsman

RA[illegible]E OF PAY

FOR THE MONTH OF November 1971

DATE	WORK	OFF	FLD. BNS.	CODING	EXPLANATIONS
3					
8					
	✓		}	Tintina Proj	
9	✓		}	Delta Claims	
10	✓		}	Ground E.M (Geophysical)	
11					
12	✓				
13					
14					
15	✓		}	Tintina Proj	
16	✓		}	Lorna, Gran,	
17	✓		}	Delta, Fran,	
18	✓		}	Fox, Base maps for Geology.	
19	✓		}		
20					
21					
22	✓		}	Tintina project	
23	✓		}	Geochem plotting	
24	✓		}	for Echo, Delta, Copa, Hale - Brown	
25	✓		}		
26	✓		}		
27					
28					
29	✓		}	Tintina DEV	
30	✓		}	Geology.	
31					
TOT...					

PAYROLL DEPT. USE ONLY

16+1 Hol	26.00	442.00
@		
@		

GROSS BEFORE BOARD

BOARD

GROSS EARNINGS

DEDUCTIONS

1) CANADA PENSION
2)
3) INCOME TAX
4) GROUP
5) M.S.A.
6) ACCTS. REC.
7)
8) BOARD
9)
10) UIC
11) MID MONTH ADVANCE

NET PAY

LABOUR CODING

-01	PROPERTY EXAMINATION
-02	PROSPECTING
-03	STAKING
-04	AIRBORN SURVEYS
-05	LINE CUTTING
-06	GEOLOGY
-07	GEOPHYSICS
-08	GEOCHEMISTRY
-09	DIAMOND DRILLING
-10	PHYSICAL WORK
-11	ACCESS ROADS
-21	CAMP OPERATIONS
-01	VANC. OFFICE - ADMIN.
-01	VANC. EXPLORATION OFFICE
93-01	WHITE HORSE BASE
1-01	ROSS RIVER BASE
-01	GEOCHEM. LAB.
-01	BULLDOZER

PAYROLL DEPT. USE ONLY

PROJECT	DAYS	GROSS BEFORE BOARD	FIELD BONUS
61 - 836	1	27.63	
61 - 838	1	27.63	
61 - 839	1	27.63	138.15
61 - 841	1	27.63	
61 - 846	1	27.63	
71 - 849	4	110.50	
81 - 845	1	27.63	
81 - 848	1	27.63	
81 - 849	1	27.63	
81 - 850	2	55 23	
61 - 809	2	55 23	
	16	442.00	

EMPLOYEE Donald Horsimann

APPROVED

REPORT WRITING EXPENSE

SCHEDULE "B"

	GEOLOGY	GEOPHYSICS	DIAMOND DRILLING
W. ROBERTS	52.38	52.38	52.38
1972 N.W.L.C @ 12%	6.28	6.28	6.28
	58.66	58.66	58.66

A[illegible]AS EXPLORATIONS LIMITED — TIME SHEET

NA[illegible] W. Roberts

TYPE OF WORK

RA[illegible] OF PAY

FOR THE MONTH OF May 19 7[illegible]

DATE	WORK	OFF	FLD. BNS.	CODING	EXPLANATIONS
	✓			Charge to	Victor OEX
	✓				
	✓				
	✓				
	✓				
	✓			Charge to	Foto staking
	✓				
	✓				
	✓				
	✓				
	✓				
	✓			Charge to	Minto OEX Geol
	✓				
	✓			Charge to	Transporting Geochem Lab.
	✓				
	✓				
	✓			Charge to	Victor OEX Geol.
	✓				
	✓				
		✓			
		✓			
	✓			Lower Unuk	
	✓			Creek - Rpt writing	(⅓ geol, geoph, Diamond drilling)
	✓				
TOTAL					

PAYROLL DEPT. USE ONLY

1 mo	@ 1100 mo	1100 00
	@	
	@	
GROSS BEFORE BOARD		
BOARD		
GROSS EARNINGS		
DEDUCTIONS		
1) CANADA PENSION		
2)		
3) INCOME TAX		
4) GROUP		
5) M.S.A.		
6) ACCTS. REC.		
7)		
8) BOARD		
9)		
10)		
11) MID MONTH ADVANCE		
NET PAY		

LABOUR CODING

-01 PROPERTY EXAMINATION
-02 PROSPECTING
-03 STAKING
-04 AIRBORN SURVEYS
-05 LINE CUTTING
-06 GEOLOGY
-07 GEOPHYSICS
-08 GEOCHEMISTRY
-09 DIAMOND DRILLING
-10 PHYSICAL WORK
-11 ACCESS ROADS
-21 CAMP OPERATIONS
-01 VANC. OFFICE - ADMIN.
-01 VANC. EXPLORATION OFFICE
93-01 WHITE HORSE BASE
-01 ROSS RIVER BASE
-01 GEOCHEM. LAB.
-01 BULLDOZER

PAYROLL DEPT. USE ONLY

PROJECT	DAYS	GROSS BEFORE BOARD	FIELD BONUS
Lower Unuk 61	½	52.38	
71	1	52.38	
91	1	52.38	

EMPLOYEE W. Roberts

APPROVED [illegible]

LOWER ANVIL AREA EXPENSE SUMMARY

SCHEDULE "C"

SUPPLIER	GEOPHYSICS	DIAMOND DRILL CONTRACT	TRAVEL + ACCOMMODATION	HELICOPTER	CAMP
ARCTIC DIAMOND DRILLING		196089			
SEIGEL ASSOCIATES	11200				
T.N.T.A.				412804	
CAMP COST SEPT 10 TO 20 @ 100/DAY					2000
	11200	196089		412804	2000

VOUCHER PAYABLE
(Prepare in Duplicate)

Date Prepared	Payable To: Arctic Diamond Drilling Ltd.	Voucher No.
Oct 31/71	Address: 735 - 510 W Hastings St. Vancouver, BC	647
Prepared by CR		
Date of Cheque	Cheque No.	

ACCOUNT	Account No. Sub.	Account No. G.L.	Amount	
Total invoice 2155.39	912	836	1960	89
Less credit 194.50				
1960.89				

TOTAL - Credit Voucher Payable Control	1960	89

Alphabetical File Letter

McDonald, Currie & Co. Form 2

ARCTIC DIAMOND DRILLING LTD.

P.O. Box 3204,
Whitehorse, Yukon Territory

Marwell Area – Phone 668-2440

730 – 510 W. Hastings Street,
Vancouver, B.C.

Phone 688-3328

RECEIVED
JUN 2[illegible]

Invoice # 815
June 23, 1971

Atlas Explorations Ltd.,
330 - 355 Burrard Street,
Vancouver, B. C.

Demobilizing equipment from the property to Faro Lake

Pay 16 of 32

not liable for:
June 8th 36 hrs - sorting out equipment for Arvid contract
June 9th only back for about 9 hrs loading equipment, no storage, no travel

Labour

84 ~~290~~ man hours @ $ 5.75 $ 1150.00 X 1058.00

Accomodation - Faro

=> Two nights for three men = 6 days @ $ 17.50 $ 105.00 X (a) 52.50

4 x 4 Rental

~~Five~~ 3 days @ $ ~~30.00~~ 25.00 per day including gas and milage $ 150.00 X (b)

for 25%

3 x 25 + 3(22.25) 100.00

Equipment Left in Hole (at Cost)

43 feet H Casing	$ 285.00
5 Only 10 foot BQ rods	$ 149.75
1 Only NW to BQ Adaptor	$ 23.45
1 Only H Casing shoe # 43938	$ 218.70

$ 676.90 ok

Groceries

Per Kelly Douglas Inv. # 12320 $ 73.49 ok.

$ 2155.39 1960.89

PAID

CLIFF: 1) We should not pay:

a) Accomodation at Faro - this should be part of demob covered by Arctic & I think we discussed this on the December invoice with Bellehumeur and they covered it at that time

b) 4x4 rental - 2 days of this was for travel between Whitehorse and Faro, Arctic should cover that. Charge for 4x4 should be questioned when a 2 wheel drive vehicle could have been used.

JR

SEIGEL ASSOCIATES LIMITED

GEOPHYSICAL CONSULTANTS & CONTRACTORS

A DIVISION OF SCINTREX LIMITED

April 27, 1971

Invoice No. BC 10409

Dynasty Explorations Limited
330 - 355 Burrard Street
Vancouver, B. C.

Attention: Mr. J. S. Brock

TO MOSAIC:

Proposed Turair - Pelly River area

72 Photos @ $2.50 each	$180.00
Plus 10%	18.00
Total Amount Due	$198.00

PAID

APPROVED BY: W. Roberts
A/C No.

(136, 138, 139, 141, 145, 146, 147) - 07-2

Terms: Due when rendered. Any amounts outstanding after 30 days will bear interest at the rate of 1% per month.

239

112.00

72 - 836, 838
839, 841

E. & O. E.

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

ATAC MEMBER

TO:

Dynasty Explorations Ltd.
330 Marine Building
355 Burrard Street
VANCOUVER 1, B.C.

RECEIVED
JUN 21 1971

DATE June 14, 1971 INVOICE NO. 238-71

P.O. NO.

TO: Charge you with the following helicopter charters:

Bell 47G-3B-1 Helicopter CF-UFC
Crew: Vandenbos and Phillips

FLYING: June 3,4 and 7, 1971
Daily Flight Report Nos. 7881,7883,7887

3.8 hours at $155.00 per hour (rate when carrier supplies fuel) $ 589.00 (1)

18.4 hours at $144.00 per hour (rate when charterer supplies fuel) 2,649.60 (2)

Bell 47G-3B-2 Helicopter CF-QJW
Crew: Kipke and McKnight

FLYING: June 7 and 8, 1971
Daily Flight Report Nos. 8522, 8523

4.9 hours at $144.00 per hour (rate when charterer supplies fuel) 705.60 (3)

INVOICE TOTAL $3,944.20

PAID

TERMS: One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.

#407

	(1)	(2)	(3)	TOTAL
223-836	310.00	2142.60	705.60	3161.20
223-845		388.80		388.80
223-847	279.00	115.20		394.20
	589.00	2,649.60	705.60	3,944.20

TRANS NORTH TURBO AIR LTD.

BOX 1977 PHONE 668-2177
WHITEHORSE, YUKON

Dynasty Explorations Ltd.
330 - 355 Burrard Street
Vancouver 1, B.C.

Date: September 30, 1971 Invoice No. 705-71

P.O. No. 948

TO:	Charge you with the charter of Bell 47G-3B-1 Helicopter CF-UFC Crew: Vandenbos & Phillips	
FLYING:	September 2, 7, 10, 11 & 12, 1971 Daily Flight Report Nos. 8012, 8016, 8020, 8021 & 8023	
	14.2 hours at $155.00 per hour (Rate when carrier supplies fuel)	$2,201.00
PLUS:	Excess cost of fuel at following points Charterer assessed with cost of fuel over $.60 per gallon	
	Ross River 210 gallons at $.54 per gallon	113.40
	Faro 45 gallons at $.56 per gallon	25.20
PLUS:	Prorated crew expenses at Ross River (4/5 cost of 2 men for 5 days)	112.00
	INVOICE TOTAL	$2,451.60
TERMS:	One per cent interest per month will be charged on all invoices not paid within 30 days of date issued.	122.65

PAID

223- 801 448.89
223- 850 155.39
223- 809 ~~647.32~~ 647.32
223- 836 966.84

TRANS NORTH TURBO AIR LTD.
BOX 1977, WHITEHORSE, YUKON

DAILY FLIGHT REPORT

DATE September 11, 1971

CHARTERER: Dynasty Explorations
ADDRESS: 330-355 Burrard St
Vancouver B.C.
AIRCRAFT: 13J CF-HFC AREA: YUKON ☒ ALTA. ☐ B.C. ☐ NWT ☐

CHARTER FROM:	PASS.	CARGO	HRS.	PASS. NAMES OR REMARKS
Faro			2.5	
(NO FERRY)				
				Diverge to Tintina (OLEX Geol.
				Geology around Anvil Creek Properties including Lorna, Gran, Roto, Jean Aro.
TOTALS			2.5	

TNTA FUEL 2.5 HRS.

TERMS: ONE PER CENT INTEREST PER MONTH WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

PILOT'S SIGNATURE

CHARTERER'S SIGNATURE

No 8021

TRANS NORTH TURBO AIR LTD.
BOX 1977, WHITEHORSE, YUKON

DAILY FLIGHT REPORT

DATE September 10, 1971

CHARTERER: Dynasty Explorations
ADDRESS: 376-355 Burrard St
Vancouver, B.C.
AIRCRAFT: ~~P-1~~ CF - HFC AREA: YUKON ☒ ALTA. ☐ B.C. ☐ NWT ☐

CHARTER FROM	PASS.	CARGO	HRS.	PASS. NAMES OR REMARKS
Ross River			6.2	
3.1 hr		Lorna Gp Comp Hrs		
5.6 hr		Between	3.1	Lorna Comp Hrs
	5	Anvil Creek	3.1	Anvil Creek
		properties		OEX (around Anvil Ck.
		for Geology.		(Tintina & OEX) properties
TOTALS			6.2	

TNTA FUEL 6.2 HRS.

PILOT'S SIGNATURE

TERMS: ONE PER CENT INTEREST PER MONTH WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

CHARTERER'S SIGNATURE

No. 8020

DISTRIBUTION OF WAGES PER MEMO.

	TINTINA OEX	B.C. OEX	LORNA	ROTO	GRAN	JEAN	HOHUBRAM	AHO	ACME	CAPA	DELTA	ECHO HILL
	1-602	809	830	836	838	839	841	845	846	847	848	849	850	85
								134.99		77.39	258.35	288.25	1200.12	
TOTAL WAGES: 61,320.85 ALLOCATION ON WAGES		22,117.76	13,328.60	387.06	333.06	279.06	333.06	4965.75	171.08	2568.49	2210.99	2633.48	5444.17	65
AE. AHO. 50% = 31,500.00	(15750.00)	5680.90	3,423.38	99.41	85.54	71.68	85.54	1275.43	43.94	659.70	567.88	676.40	1398.24	1.68
ROG DAVIS 25% = 24,999.00	(6,249.75)	2254.21	1358.48	39.45	33.95	28.44	33.95	506.10	17.44	261.78	225.34	268.40	554.37	667
J.S. BROEK 19.20000														
LESS. ALLOCATED 10,903.27														
829673	(829673)	2992.53	1803.36	52.38	45.06	37.76	45.06	671.86	23.15	347.52	299.16	356.31	736.73	885
M. PARKER 10% = 648000	(648000)	2337.27	1408.49	40.90	35.19	29.49	35.19	524.75	18.08	271.42	233.64	278.29	575.41	691
E. HAMLIN (MONTH OF DEC)	(50000)	100.00						100.00			100.00	100.00	100.00	
	(37,276.48)	13,364.91	7993.66	232.14	199.74	167.37	199.74	3078.14	102.61	1540.42	1426.02	1679.40	3,366.67	3,9
8% N.W.L.C.	(2982.12)													
	(402586.0)	144340	8633.15	250.72	215.72	180.76	215.72	3324.40	110.82	1663.65	1540.10	1813.75	3634.93	4,2
DISTRIBUTION														
50% 61		72170.5	431657	12536	10786	9038	10786	166220	11082 K	83182	77005	90688	1817.46	2,1
50% 71		72170.5	431658	12536	10786	9038	10786	166220	—	83183	77005	90687	1817.47	2,1
	(402586.0)	144340	863315	25072	21572	18076	21572	332440	11082	166365	1540.10	1813.75	3634.93	4,2

*DUE TO ACCOUNT NOT SET UP

J.V. #26 DEC/81