

	Title:	The Moly May Stock: Geological and Drilling Report						
	Claims:	Moly May 2936(4) 10 units Beatrice 2937(4) 2 post Moly Fr. 1 2938(4) 2 post Moly May 2 3135(7) 8 units Moly May 3 3136(7) 20 units						
	Mining Divison:	Skeena						
	NTS Location:	55° 21'N 129° 48'W Map 103 P/5 W.						
•	Owner:	Enfield Resources Inc.						
	Consultant:	Gregory Geotechnical Consultants Ltd.						
	Author:	John Affleck, B.Sc.						
	Work Done:	April 28 - July 11, 1982						

SUMMARY

The exploration program conducted for Enfield Resources, Inc. in 1982 comprised two aspects; surface work and drilling. Detailed and reconnaissance mapping was conducted on the Moly May claims from April 28 to July 11, 1982. Although mapping continued throughout the program, it was the focus of attention during May, before the drill arrived on the property. A grid was cut and surveyed during May and June, 1982. The drill arrived on the property on May 29th, 1982 and operated until July 8.

The Moly May stock contains both a densely fractured and hydrothermally altered rim and a relatively massive, unaltered quartz monzonite core zore. The lithological and structural differences of these two areas provide good evidence for two phases of cooling within the pluton. Visible mineralization and stockwork development is concentrated in three general areas within the altered outer rim that forms an arc peripherial to the core zone. The three altered and mineralized areas are referred to as the East, West and South Zones. The South Zone, an area containing four major molybdenite showings, was discovered by the writer during the 1982 program.

Surface exposure of the Moly May stock is very close to the roof of the pluton. The molybdenum mineralization present in high-grade showings in the East, West and South Zones has been deposited very high in a thermal system. High grade molybdenite and gold mineralization in the East Zone has been interpreted to be contained within late-stage pegmatite-rich blowouts, which infill large tension gashes. The grade and continuity of the molybdenite mineralization at depth in both the South and West Zones has yet to be determined. 1.1

The writer recommends that the survey grid be extended to cover the entire pluton in order to conduct detailed geophysical surveys. A very important relationship that has yet to be established is that of molybdenite mineralization to stockwork development at depth. This relationship should be investigated by diamond drilling in both the South and West Zones. The writer believes that the mineralized West Zone is the best target area in order to further test the grade and continuity of the mineralized porphyry system.

1.0 INTRODUCTION

1.1 Terms of Reference

Gregory Geotechnical Consultants Ltd. was retained by Enfield Resources Inc. as its geological consultant on the Moly May property during summer, 1982.

John Affleck, B.Sc.; the writer, conducted a geological mapping and sampling program on the property from April 28 to July 11, 1982. During that time, he also supervised a surveying program conducted by Kevin Pielak of Langley, B.C. and Joel Thomlinson of Vancouver, B.C., and a diamond drilling program conducted by Globe Drilling (1981) Ltd.

1.2 Location and Access

The Moly May property is located at 55° 21' north latitude and 129° 48' west longitude (Figure 1) in northern British Columbia near the southern end of the "Alaskan panhandle". It covers the base of the Bocking Peninsula and is 8 km south of the abandoned smelter town of Anyox, B.C.

The Anyox area is on the west side of Observatory Inlet across from the entrance to Alice Arm. About 17 km east of Anyox at the head of Alice Arm is Amax's molybdenum mine and the town of Kitsault. At present, Kitsault is a typical company town, organized to serve the needs of the company that operates it. However, a new road connecting Kitsault with B.C. Highway 37 has just been completed, making it more useful as a staging point for exploration and development near Anyox. Useful services at Kitsault include a scheduled daily flight from Prince Rupert via Trans Provincial Airways and a Bell 206 helicopter available for charter from Vancouver Island Helicopters Ltd.

It was found most advantageous to supply and expedite the Enfield Resources camp from Prince Rupert, B.C. which is about 130 air km south of the property. All of the services intrinsic to a large city are available at Prince Rupert including both sea and air transportation. Air transport for the 1982 exploration program was provided by North Coast Air Services Ltd. Sea transport was provided by Wainwright Marine Services Ltd.

-2-

1.3 Terrain and Vegetation

Two distinct types of landform are developed in the study area on the Moly May claims from the erosion of the Hazelton Group metasediments and volcanic rocks and the Moly May quartz monzonite stock respectively.

Metasediments and volcanic rocks underlie the northwestern part of the Moly May claim and the Beatrice claim. They weather to form steep rounded hills on dip slopes and low bluffs on opposite slopes. Variously altered quartz monzonites of the Moly May stock underlie the rest of the study area. These rocks weather to form low rounded hills and ridges.

The area covered by the claims was extensively burned over at least twice during the twentieth century; most recently in the 1940's. Upon being stripped of its forest cover, the area underwent extensive soil erosion resulting in a topography of bald hills and flat, sediment-filled valleys in the area underlain by the Moly May Stock. From examining the roots of charred stumps, it was deduced that even before the fires and subsequent erosion, the soil cover was very thin or absent over the pluton.

The original forest comprised cedar and fir, growing in dense groves in the valleys and sparsely covering the rest of the area. At present there is no significant forest cover on the Moly May stock and no soil capable of supporting one. Dense second-growth rain forest comprising pine, fir, alder and a diverse community of bushes and ferns covers the valleys on the flanks of the stock and the Hazelton Group rocks on the northwest margin of the claims. There is no commercial timber on the property nor is there any potential for generating any on the Moly May stock.

Elevations on the Bocking Peninsula range from sea level to 150 m ASL. The study area is covered with snow for only two months each year so the local streams must be fed by rainfall. Usually the rain is plentiful; about 300 cm per year is normal. However, drainage basins in the area are small and a dry spell of only one month is sufficient for the streams to stop running.

1.4 Property

The Moly May claim group comprises the following claims, all recorded in the Skeena Mining Division of British Columbia (Figure 2): Moly May 2936(4) 10 units staked by D. Javorsky, Apr. 1981 Beatrice 2937(4) 2 post and vended to Enfield Resources Inc. Moly Fr. 1 2938(4) 2 post Moly May 2 3135(7) 8 units staked by J. Ostler for Enfield Moly May 3 3136(7) staked by D. Javorsky for Enfield 20 units July, 1981

It is believed by the writer that the Moly May claim group is owned by Enfield Resources Inc.

1.5 Previous Exploration

The Moly May stock was first explored over fifty years ago by prospectors who blasted several small pits in both the East and West zones, using hand steel and dynamite. All of the blast pits are located in silicified portions of the intrusive body where there was abundant pyrite formation. It is, therefore, assumed that the original prospecting was initiated in search of gold in molybdenite and pyrite-bearing veins.

During June, 1965, 26 claims were staked by D. Collison of Alice Arm. At that time, N. Carter of the B.C.D.M. examined the mineralized showings and wrote a short description covering them and the nearby rocks. Carter chip sampled the Moly Mac showing and reported it to contain 12.7% MoS₂ with a trace amount of copper and lead (Carter, 1965).

During November, 1981; C. Graf, P.Eng. (Graf, 1981) conducted a mineral exploration program for Enfield Resources Inc. on the claims. The program comprised prospecting, stream silt sampling, chip sampling of showings and geological mapping. The most exciting result of his work was his discovery of the West Zone which more than doubled the area of known mineralization.

During March, 1982; P. Peto, Ph.D. (Peto, 1982) reviewed the company's data and had pulps of the samples taken by Graf re-analyzed

-4-

in order to evaluate the nature of primary metal dispersion patterns associated with molybdenite mineralization on the Moly May claims. Both Graf and Peto recommended that a drilling program be initiated to test the grade and continuity of the mineralized porphyry system on the property.

-5-

2.0 GEOLOGY

2.1 Regional Geology

The Moly May property, situated on the northern coast of British Columbia is within the Coast Plutonic Complex (Douglas ed., 1970); where granitic batholiths have intruded Mesozoic-age metasediments and volcanic rocks of the Hazelton Group and the Bowser Basin Assemblage. The main period of intrusion was during the Early Tertiary age about 80 million years ago. At about 48 million years ago, porphyritic quartz monzonite stocks; referred to as the Alice Arm Intrusions, intruded both the supercrustal rocks and the Coast Range plutons.

-6-

The Alice Arm intrusions commonly contain comparatively large amounts of molybdenum. The Moly May stock is one of the Alice Arm intrusions.

2.2 Property Geology

The Moly May property is underlain in part by a small (1.5 km) 48.3 million year old, molybdenum-bearing stock; one of the Alice Arm intrusions (Figure 3). The Alice Arm intrusions are characterized by their small size, their porphyritic texture and quartz monzonitic composition. They are texturally distinct from the equigranular satellitic stocks related to the Coast Plutonic Complex (Carter, 1974)

The Moly May stock is bordered on the east and south by Observatory Inlet. To the north and northwest are Jurassic-age Hazelton Group volcanic and metasedimentary rocks, into which the Moly May stock was intruded. It is bordered on the west by an 80 million year old batholith of the Coast Plutonic Complex. The batholith underlies the Moly May 3 claim. It was not studied during the 1982 mapping project.

The Moly May Stock

The Moly May stock contains both an altered outer rim and a relatively unaltered quartz monzonite core zone. Most of the quartz monzonite consists of approximately 25% quartz, 70% feldspar (plagioclase=orthoclase) 4% biotite and/or muscovite and 1% accessory minerals, including hydrothermal garnet, pyrite and molybdenum.

Near surface, the quartz monzonite has undergone extensive weathering, probably during the Tertiary age when the northern coast of British Columbia had a subtropical climate. Diamond drill hole information has revealed that oxidation due to surface water penetration is pervasive to an average depth of 150 m . Consequently, the quartz monzonite visible on the surface is highly altered and devoid of some of its essential and accessory components.

Hydrothermal alteration has contributed to intense stockwork development that is pervasive throughout most of the outer part of the stock. Alteration and stockwork development is concentrated in three general areas that form an arc, peripheral to the core zone. Stockwork development culminated near the East, West and South zones (Figure 3).

The inner unaltered core zone is located mostly on the Moly May 2 claim, extending northward from the shore of Observatory Inlet.

-7-

from differential cooling and shrinking of the inner and outer parts of the Moly May stock. It has developed into a very strongly sheeted N 10° to 40° W trending fracture system. Stockwork quartz veins vary in intensity. They are commonly 0.5 to 1 cm in width; however, widths of up to 50 cm were recorded. The lack of sulphide mineralization in quartz veins suggests that hydrothermal activity lacks molybdenite mineralization at surface. There is however, an exceptionally large number (16 found to date) of good to excellent high grade showings throughout the stockwork areas. Most of the showings seem to be concentrated by latter stage northeast-trending structures. The Moly May stock has just been unroofed. The exposed top of the stock is very high in the system. Molybdenum-bearing stockwork is probably more pervasive at depth.

Large quartzofeldspathic pegmatitic injections have resulted locally in various compositional changes throughout the pluton. There is a strong relationship between quartzofeldspathic pegmatitic injection and biotite enrichment within the intrusive host rock.

A broad area near the northern margin of the South Zone (Figure 3) is extensively biotite-enriched. Mapping has not yet revealed if biotite enrichment in this area is directly related to quartzofeldspathic injection or if it is actually a separate phase of intrusion.

Quartzofeldspathic pegmatitic injections are also abundant on the eastern side of the Moly May claim. Within the pegmatites, there is an irregular potassic-rich phase that is commonly associated with

-9-

molybdenite mineralization. The biotite phase probably is a feldspathic marginal phase of the pegmatite.

Visible molybdenite is present in biotite-rich rocks in two areas along the shore of Observatory Inlet. There, rocks of this phase are exposed in elongate bodies. They are oriented along zones of weakness trending N 65° E and have been later intruded by diabase dykes along the same general trend.

Metasedimentary and Volcanic Rocks

Metasedimentary and volcanic rocks in the area are part of the Jurassic-age Hazelton Group. The metasediments comprise interbedded siltstones, greywackes and sandstones. Greywacke is the most common sedimentary lithology on the Moly May claims. The volcanic rocks are andesitic.

Hazelton Group rocks are well exposed along the south shoreline of Sylvester Bay (Figure 3) and also along the northeast shoreline of the Bocking Peninsula. South of Sylvester Bay, they are interbedded greywackes and andesites that together form a well defined eugeosynclinal assemblage. The only sulphide minerals observed in these rocks are cubic pyrite in the andesites and very finely disseminated pyrrhotite in the hornfelsed siltstones and greywackes.

The Moly May stock has deformed and forcefully intruded the overlying Hazelton Group rocks. Subsequent uplift and erosion has caused the pluton to be just unroofed. Metasedimentary and volcanic rocks are found as xenoliths and roof pendants across the stock and overlie the stock with low angle contacts. Good exposures of the intrusive contact are common near the East Zone.

In the East Zone there is a sedimentary roof pendant, 100 m long. The roof pendant is a synclinal keel-like structure and is observed on surface as large sedimentary screens separated by fingerlike projections of the intrusive. Due to the injection of the host rock material, the sedimentary rocks within this area are thermally altered.

Late Stage Dykes

A variety of mafic to felsic dykes cut across all other rocks on the property. Their exact age is unknown. However, they cut across the quartz monzonite which is dated at about 48 million years old and are thus Late Tertiary age. Classified under the heading of "Late Stage Dykes" are the following: diabase, diorite, gabbro and quartzfeldspar porphyry.

The diabase and gabbroic dykes are essentially the same rock type. Diabase is distinguished from gabbro by its characteristic subophitic texture. These dykes are best exposed on the eastern shoreline of the property, adjacent to Observatory Inlet. Their general trend is N 60° to 80° E and they form many of the northeast linaments observable from the air. Although some dykes are quite wide, the majority average one metre in width. Consequently, the majority are also fine-grained. The dyke rocks have cooled from very hot anhydrous melts. with very little hydrothermal activity associated with them. From

their mineral composition and sharp contacts with the quzrtz monzonites , it can be concluded that the diabase and gabbroic dykes postdate molybdenite mineralization. Evidence for their relative age is confirmed by several 5 to 10 cm granitic pieces that have been stoped out of the intrusive body and incorporated into the dykes. Diabase and gabbroic dykes were intersected at numerous locations within the drill holes.

Diorite is seen at only one locality; on the shoreline at the south end of Sylvester Bay. It is present in a 10 m wide dyke that trends parallel to the sedimentary rocks which are trending N 20° W.

Like the diorite, the quartz-feldspar porphyry was also mapped in only one location, on the eastern shore of the property, adjacent to Observatory Inlet. It is 10 m wide and trends at N 35° E. The quartz-feldspar porphyry dyke is purple-grey In colour and is unmineralized. It was intersected at several places in the top 30 m of all three drill holes.

-12-

3.0 STRUCTURE

The oldest rocks on the Moly May claims are Jurassic-age metagreywackes and andesites of the Hazelton Group. On the Bocking Peninsula, these rocks have been compressed into an open inclined syncline that trends northeast along the length of the peninsula.

During the Late Cretaceous, the area was deformed and intruded by Coast Range Intrusive Complex Batholiths. The 80 million year old granitic pluton on the Moly May 3 claim is associated with the complex.

With regard to exploration on the Moly May claims, the most significant tectonic event recorded in rocks on the property was the forceful intrusion of the Moly May stock into overlying strata. Subsequently, the stock differentially cooled and fractured. It was intruded by mafic to felsic dykes and translated along at least two major faults. The pluton has been partly unroofed by the erosion of the Hazelton Group rocks.

3.1 Moly May Stock

The Moly May stock has been densly fractured (Figure 4). The earliest set of fractures are within the outer shell of the stock. They are oriented in a circular pattern around the core zone. These fractures seem to be shrinkage fractures, resulting from the contraction of the pluton as it cooled. Also observed in the outer shell are two sets of radial fractures. The two preferred radial directions form a conjugate set, probably the result of external compressional stresses. One of the fracture sets is pervasive throughout the outer shell and forms a very strongly sheeted N 40° W trending fracture pattern. This fracture set is responsible for most of the stockwork development. The majority of the two fracture patterns are infilled with quartz; however, some remain unfilled. The writer assumed that the unfilled fractures were of the same age as the others but were closed at the time of fluid emplacement.

Large tension gashes infilled by massive quartzofeldspathic pegmatite, are present in two distinct forms; elongated and globular. The elongated pegmatites trend in a north-northeasterly direction and are abundant in the southern part of the East Zone (Figure 3). Globular pegmatites trend in a northerly direction and are abundant in the southwestern part of the pluton.

The highly fractured outer shell of the stock and the relatively unfractured inner core, provide good evidence for two stages of cooling. When stresses were ative within the pluton, the outer shell must have been brittle in order to sustain fracturing; whereas the inner core was plastic and thus not capable of sustaining brittle failure.

External stresses were active during the emplacement of the pluton and after cooling. Evidence for the latter is provided by large displacements along major faults. Two extensive fault zones cut across the Moly May stock (Figure 3,4) trending in a northeasterly direction. The semicircular shape of the outer shell (including mineralized and stockwork areas) is translated by these faults.

-14-

4.0 SURFACE MINERALIZATION

The nature of the mineralization may best be described by dealing with each of the three mineralized zones, the East Zone, the West Zone and the South Zone individually.

4.1 The East Zone

Detailed geological mapping and drill hole information have revealed two styles of mineralization in the East Zone; disseminated molybdenite and high-grade local showings of molybdenite and goldbearing pyrite.

Small 1 mm molybdenite rosettes are randomly disseminated throughout the rock within 100 metres of an area that has been heavily intruded by large quartzofeldspathic pegmatitic masses. The grade averages .001 to .002% Mo. This molybdenite predates the high grade showings within the immediate area of the 1982 drill site.

The high grade molybdenite-gold showings are the result of accumulation within late stage pegmatitic masses. The local high grade showings are part of an irregular potassic-rich biotite phase of the pegmatites that contains molybdenite and gold mineralization.

Five major molybdenite showings are present within the East Zone. Two of which, including the Moly Mack, are located on the shoreline of Observatory Inlet. (Figure 3).

4.2 The West Zone

The West Zone is located on the Moly May claim, approximately

700 metres west of the East Zone. (Figure 3). The West Zone was previously thought to contain nine molybdenite showings consisting of disseminated (1.5mm) grains in altered and Fe-Mo oxide stained quartz monzonite. Detailed mapping has revealed that there are actually twelve such showings within the immediate area.

One of these newly discovered showings, now referred to as the West Zone Workings, consists of five old prospector's pits averaging 3 x 5 metres in size. The West Zone Workings occur in a very silicified portion of the quartz monzonite where two prominent fracture systems intersect. The mineralized fracture system containing visible molybdenite (1-5mm) grains, fresh 2mm cubic pyrite and abundant sericite trends roughly northeast-southwest, perpendicular to the general 320° trend of stockwork veins.

This area was surveyed and adjoined to the 1982 survey grid. The surveyed lines were systematically chip sampled at 1m intervals and assayed for Mo and Au. Refer to (figure 5, Appendix B).

The other eleven showings in the West Zone area are very similar in geologic setting to the West Zone Workings. They are concentrated in altered zones averaging 10 to 15 metres in widths that trend about N70[°]E.

4.3 The South Zone

The South Zone is situated on the southwest corner of the Moly May 2 claim (Figure 3). The South Zone is similar to the West Zone. It consists of heavily altered and Fe-Mo oxide stained quartz monzonite containing several molybdentie showings and extensive stockwork

-16-

development. Four major molybdenite showings were discovered by the writer during the 1982 mapping program.

The South Zone showings are concentrated in an area approximately 1200 metres to the southwest of the southern most line of the 1982 surveyed grid. The showings were considered to be out of the immediate area of interest of the 1982 diamond drill program and have yet to be precisely positioned by transit survey. The showings are referred to as: S_1 , S_2 , S_3 , and S_4 (Figure 3).

These showings are very similar in geologic setting to the West Zone. S₃ is the most impressive showing in the South Zone. It is situated in an area approximately 5 m wide that has been intensely silicified. The silicified area weathers grey and is slightly raised in comparison to the surrounding outcrop. On surface, the grey silicified rock has a very vuggy texture and seems to be barren of sulphide mineralization. Below surface, the rock contains abundant (up to 10%) 5 mm molybdenite rosettes. The molybdenite has replaced biotite and is most concentrated in the unaltered garnetiferous portions.

The silicified zone containing this anomalous molybdenite mineralization is very shallow-dipping and strikes at 250°. This showing is on a cross-cutting structural feature that postdates local stockwork development in the South Zone.

Surface exposure of the Moly May stock is very close to the roof of the pluton. The molybdenum mineralization present in high grade showings in the East, West and South zones has been deposited very high in a thermal system. It is probable that the molybdenum mineralization has been distilled from a deep source area within the stock and has localized on surface as high-level blowouts.

-18-

High-grade molybdenum mineralization seems to be related to late-stage external regional tectonic stresses, resulting in fluid migration through the Moly May stock. Accessory gold mineralization was also deposited at that time and was associated with molybdenum deposited in pegmatite tension gash fillings.

5.0 1982 EXPLORATION PROGRAM

The exploration program conducted for Enfield Resources Inc. in 1982 comprised two aspects; surface work and drilling. Detailed and reconnaissance mapping was conducted on the Moly May claims from April 28 to July 11, 1982. Although mapping continued throughout the program, it was the focus of attention during May, before the drill arrived on the property. A grid was cut and surveyed during May and June, 1982. The drill arrived on the property on May 29th, 1982 and operated until July 8.

5.1 Mapping and Surveying

In May, 1982, most of the property was mapped. Toward the end of the month, special attention was given to detailed mapping of the mineralized zones where alteration types and major fracture patterns were interpreted, The results of this work (Figures 3,4) are summarized in the Property Geology and Surface Mineralization sections of this report.

The surveyed grid was laid out by Kevin Pielak and his assistant Joel Thomlinson. The immediate use of this grid was to accurately locate the mineralized showings, the 1981 geochemical grid (Graf, 1981) and the 1982 drill site. The grid lends itself to easy extension, in order that an enlarged version may be used in the future to conduct accurate geophysical surveys (Figures 3,4).

5.2 Diamond Drilling

The diamond drill camp was established on May 29th, 1982.

-19-

Drill equipment arrived from Prince Rupert on a barge and was then moved via helicopter to a drill site in the East Zone.

-20-

The drill was put on the East Zone to test the continuity of high-grade molybdenite mineralization, to test the continuity of geological features at depth and to discern the relationship of molybdenite and gold mineralization. Three holes were splayed from the same setup so that the shape and extent of the mineralized zone could be visualized in three dimensions (Figures 6,7).

6.0 GEOLOGICAL MODEL

6.1 Evolution of the Moly May Stock

The Moly May stock contains both a densely fractured and hydrothermally altered rim and a relatively massive, unaltered quartz monzonite core zone. The lithological and structural differences of these two areas provide good evidence for two phases of cooling within the pluton.

During pluton emplacement, external stresses applied to the pluton created dense fracturing throughout the altered outer rim. The inner core zone was in a plastic state and could not sustain brittle fracturing. Open fractures created within the outer rim were later infilled by quartz and a strong stockwork was developed.

The interpretation of angles of both the shrinkage and the radial fractures has led to the development of a theoretical model to evaluate the orientation and magnitude of the regional stresses during emplacement of the Moly May stock, about 48 million years ago (Figure 4). The greatest compressive stress was oriented northeast-southwest. The medial compressive stress was oriented southwest-northeast. The least compressive stress was subvertical, with a southwesterly trend and a steep plunge of approximately 80° .

The regional stresses rotated slightly and changed in magnitude throughout the late Tertiary.

-21-

The regional tension created within the system led to block movement and translation along extensive northeast trending planes. Pre-existing fractures were re-opened and latter infilled by quartzofeldspathic pegmatitic material.

The entire stock has been subsequently intruded along preexisting trends of weakness by various Post-Tertiary age dykes. Most of the dykes are mafic and form many of the northeast linaments observable from the air.

6.2 Relationship of Plutonism to Mineralization

High-grade molybdenite showings contain disseminated molybdenite in quartz monzonite in the South and West Zones. In their present form, showings are very local. However, the molybdenite is believed to have originated from deep within the pluton. Mineralization in both of these zones lies peripheral to intensive stockwork development (Figure 3). Quartz veins in the stockwork contain no visible molybdenum. However, surface outcrop is representative of a very high level within the pluton. Molybdenum mineralization in the stockwork at depth may have supplied the metal to high-grade showings on surface.

The high-grade molybdenite showings in the East Zone are related to intense fracturing and pegmatitic veining. The quartzofeldspathic pegmatites are associated with late stage translation and a period of tension in the late Tertiary. High gold values, obtained in the East Zone during the 1981 geochemical survey, are also related and appear confined to the late stage pegmatitic phase of the Moly May stock.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The Moly May stock cooled in stages, resulting in an outer altered shell and a barren core zone. The outer altered shell contains both intensive stockwork development and numerous high-grade molybdenite showings that are concentrated in three separate zones. High-grade molybdenite and gold mineralization in the East Zone has been interpreted to be contained within late-stage pegmatite-rich blowouts, which infill large tension gashes. This high-grade mineralization has probably been distilled from a source at depth. The grade and continuity of the molybdenite mineralization at depth, in both the South and West Zones, has yet to be determined.

I recommend that the following programs be conducted in order to evaluate the Moly May property:

1. The 1982 survey grid should be extended to cover the entire pluton. Geophysical and electromagnetical surveys should then be conducted in order to outline and define mineralization at depth. An I.P. (induced polarization) survey would probably be the best definitive survey for this porphyry-style deposit. It could assist in the definition of a halo (high conductivity) around mineralization and also the barren core zone (high resistivity).

2. Detailed mapping and thorough prospecting should continue over the southern portion of the pluton.

3. A very important relationship that has yet to be established is that of molybdenite mineralization to stockwork development at depth. This relationship should be investigated by diamond drilling in both the South and West Zones. The writer believes that the mineralized West Zone is the best target area in order to further test the grade and continuity of the mineralized porphyry system.

Vancouver, British Columbia August 6, 1982. Respectfully submitted

John Affleck, B.Sc.

APPENDIX A

ASSAY PROCEDURE:

<u>Silver_&_Gold</u>: Fire Assay Method

0.5 assay ton sub samples are fused in litharge, carbor and silicious fluxes. The lead button containing the precious metals is cupelled in a muffle furnace. The combined Ag & Au is weighed on a microbalance, parted annealed and again weighed as Au. The difference in th two weighing is Ag.

APPENDIX A

(continued)

MOLYBDENUM ASSAY (Total)

A 2 gm sample of pulp is digested for 2 hours in a mixture of HClO₄ and HNO_3 acids. The beakers are then cooled and the acid solution is diluted with de-ionized water. This solution is heated, then transferred into a 250 ml volumetric flask containing 10 ml of AlCl₃.7H₂O which is used as an ionization suppressent.

After cooling, the solution is mixed and analyzed on an A.A.5 spectrophotometer at 3133Å using a nitrous oxide-acetylene flame.

MOLYBDENUM ASSAY (MoO₃ Leach)

2 gms. of prepared sample pulp is leached by mixing for 1 min. in 25 ml of hot 25% HCl acid. After dilution with 25 ml of deionized water, this solution is filtered into a 250 ml volumetric flask containing 25 ml of 70 % HClO₄ acid and 10 ml of AlCl₃.7H₂O solution. The mixed solution is then analyzed as above by atomic absorption procedures.

8.0 REFERENCES

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TELEPHONE: (604 TELEX:

CERTIFICATE OF ASSAY

TO : OSTLER. MR. JOHN

1902-1501 HARO STREET VANCOUVER, 3.C. V5G 1G4

CERT• #	:	A82116
INVOICE	ų :	182116
DATE	:	9-JUL-
P.O. #	:	NONE
PROJECT#	2-1	

						the second division of	
Sample	Prep	Mo	AU FA		-		
description	code	%	oz/t				
WZW-12	207	0.002	<0.003	·			
WZW-13	207	0.002	<0.003				
WZ W-14	207	<0.001	0.003		*		
WZW-15	207	<0.001	<0.003				
WZW-16	207	0.001	<0.003	•			
WZW-17	207	<0.001	<0.003				
WZ W-18	207	0.130	0.003				
WZW-19	207	0.650	0.005				
WZ W- 20	207	0.070	0.003		、		
WZW-21	207	0.745	0.005				
WZW-22	207	0.024	0.903				
WZW-23	207	0.078	0.005		'		
WZ W-24	207	0.005	0.003				
WZW-25	207	0.004	0.003				
WZW-26	207	0.004	0.009				
WZW-27	207	0.003	0.034				
WZ W-28	207	0.004	0.003		~ -		
WZW-34	207	0.078	0.003	<u>.</u> = ~			
WZ W-35	207	0.002	<0.003				
WZ W-36	207	0.002	0.003				
WZW-37	207	<0.001	0.003		~ ~		
WZW-38	207	<0.001	0.003		 .		

John Ifflerter



MEMBER







4.1

Massive smokey quartz



Quartz feldspar porphyry

3

•

Diabase or gabbro



Biotite and/or muscovite quartz monzonite



Altered biotite quartz monzonite



Silicified and chloritized quartz monzonite



ENFIELD RESOURCES INC. Figure 7 DDH 82-2 and 3 MOLY MAY CLAIM GROUP 55° 21' N. 129° 48' W. British Columbia Skeena M.D. John Affleck, B.Sc. August, 1982 7 5 10 5 13 \$2.⁵` N 4 ير وي 82.y) 82-2 i Note: for lithologies see preceeding legend for location see figures 3,4 John Alleh. 100 m Π 0

APPENDIX C

NAME DESIGNATED BY GRAF (1981) GRID LOCATIONS OF SHOWINGS 96.5 N , 816.0 W Α В 96.5 N , 856.1 W 25.1 N., 877.9 W С 21.0 S , 825.4 W D 64.8 S , 902.2 W Ε 70.4 S , 937.9 W F G 36.4 N , 859.8 W 71.9 S , 869.5 W Η ŧ 131.5 N , 905.7 W E1 Moly Mack 105.0 N , 8.3 W 60.0 N , 87.9 W E2 42.3 N , 112.8 W E3 52.7 N , 137.8 W E4 NAME DESIGNATED BY 1982 FIELD PARTY FAIRBANKS SHOWING 331.8 S , 974 .6 W 6.8 \$, 1112.7 W WEST ZONE WORKINGS THOMLINSON PITS 102.3 S , 1014.8 W MOLY MACK 2 467.3 S , 160.9 W 950 S, 1600 W (approximate) S₁ 1009 S , 1709 W (approximate) S₂ 1028 S , 1747 W (approximate) S3 **S**4 39 S , 1858 W (approximate)

S, 849 W (approximate)

Cohr Affler