5197

1973 Geological, Geochemical, and Geophysical

ASSESSMENT REPORT

82E/8E

TITLE	Deer, Park, and Camel Claims Deer Park MoS_2 Property
AUTHORS	H.W. Sellmer and G.M. DePaoli
DATE	April 1974
COMMODITY	Mo
LOCATION-Area	Castlegar, B.C.
-Mining Division	Trail Creek
-Coordinates	49°02'N and 118°02'W
-NTS	82 W

AMAX VANCOUVER

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SUMMARY

The Deer Park Property is located at an elevation of 5,000 feet on Upper Shields Creek approximately 18 miles west of Castlegar in Southern British Columbia. The claims are accessible by 17 miles of dirt road from Highway #3.

The property which presently includes 85 claims was optioned from Heinz Veerman and William Botel. It was formerly known as the Midas Group.

Considerable previous work including shafts, adits, surface surveys, and 1,800 feet of diamond drilling, has been carried out on the property. One diamond drill hole (DDH #7) intersected 50 feet of 0.3% MoS_2.

Coryell monzonites, syenites, and breccias underlie the grid-area. A coarse-grained syenite and fresher-looking, sub-porphyritic, locally quartz-bearing syenite are separated by a 2,000 foot wide band of aphanitic feldspar porphyry of similar composition. The aphanitic feldspar porphyry and, to a lesser extent the coarse grained syenites are intruded by a dominantly northwest-striking, vertical swarm of syenite porphyry, andesite, and lamprophyre dykes. Minor, more quartz-rich variants are also present.

A breccia zone of nearly the same age as the dyke swarm trends east-west across the intrusive grain. The breccia is highly variable in fragment size, matrix, and fragment composition.

A variable, locally intense quartz vein and/or quartz-magnetite vein stockwork cuts all rock types but appears most intense peripheral to the breccia. Pyrite is locally intense near or within the breccia and forms a weakly developed halo around it.

Fluorite, calcite, secondary biotite (?), hematite, and magnetite are erratically distributed within the breccia and near its peripheries, and within shear zones in syenite porphyry

dykes.

Northwest and north-south striking steeply dipping faults are prominent. The northwest-striking dyke swarm probably occupies a dilational fracture and fault set related to an east-west oriented major stress axis.

Molybdenite mineralization is found sporadically in a variety of environments in the mapped area. It occurs at the peripheries of the breccia zone and partly within it; in highly fractured, quartz veined medium grained quartz monzonite; and with chlorite-magnetite alteration in shear zones which cut the sub-porphyritic coarse grained syenite.

Prominent Mo, Cu, Ag, Zn, and W soil anomalies coincide mainly with the breccia zones.

A magnetometer survey reveals strong magnetic highs at the peripheries of breccia zones. In addition, the coarse-grained syenite has locally high magnetic susceptibility.

A relatively shallow I.P. anomaly which corresponds to 1-3% sulphides by volume covers much of the east-central grid area. Several root-like zones extend to greater depths at the edges of breccia zones. One such zone coincides with the 50 feet of 0.3% MoS_2 intersected in DDH #7.

RECOMMENDATIONS

A drill program to test the breccia zones with their coincident anomalies is recommended. Six holes should adequately test a strike length of 4,000 feet for the presence of economic molybdenite mineralization.

The survey area should be extended to the east, west, and southwest to fully define breccia zones, and close off geophysical and geochemical anomalies.

A breccia zone of nearly the same age as the dyke swarm, trends east-west across the intrusive grain. The breccia is highly variable in fragment size, matrix, and fragment composition. It locally has syenite porphyry matrix, crushed rock matrix, or none at all. Syenite porphyry dykes form the matrix, are themselves brecciated, and cut the breccia.

A variable, locally intense quartz vein and/or quartz-magnetite vein stockwork cuts all rock types but appears most intense peripheral to the breccia. Pyrite is locally intense near or within the breccia and forms a weakly developed halo around it.

Weak clay-sericite-carbonate alteration is associated with pyritization. Patchy silicification and K-feldspar flooding occur sporadically. Fluorite, calcite, secondary biotite (?), hematite, and magnetite are erratically distributed within the breccia and near its peripheries, and within shear zones in syenite porphyry dykes.

Faults strike northwest, north-south, and east-northeast in the grid area. Northwest and north-south striking steeply dipping faults are prominent. The northwest-striking dyke swarm probably occupies a dilational fracture and fault set related to an east-west oriented major stress axis. Subsequent failure may have given rise to the east-west striking breccia. Fracture intensity is highly variable, but is most intense in aphanitic feldspar porphyry adjacent to the breccia. Fracturing also strikes northwest, north-south, and east-northeast but dips range widely. Northeast-striking fractures with variable dips are also represented.

Molybdenite mineralization is found sporadically in a variety of environments in the mapped area. It occurs at the peripheries of the breccia zone and partly within it; in highly fractured, quartz veined medium grained quartz monzonite; and

Lower Arrow Lake which makes a sharp bend to the east in the vicinity of the Deer Park Property.

Numerous mineral deposits occur in the general area. They includes those of the Rossland Camp (Cu-Au), the Beaverdell-Carmi area (Ag-Pb-Zn), and the Phoenix area (Cu). Molybdenite properties are relatively scarce but include the Red Mountain Mine to the south; AMAX Mo group to the west, and a property four miles east on Lower Shields Creek.

Property Geology

Outcrops, although small, are numerous over much of the Deer Park Property. A series of cliffs and bluffs at the north and south sides of the grid give excellent large exposures. A swamp in the central portion of the grid and glacial cover to the northeast obscure over large areas.

All of the grid area has been glaciated. Subdued, rounded and often striated outcrops are prominent in the south-western grid area. Glacial direction appears to have been northwest-southeast to northsouth. A blanket of boulder till with locally interbedded fluviatile deposits increases in thickness from the central to the northeast part of the grid.

Bedrock is composed of a variety of intrusive rocks which range considerably in grain-size and tecture but are somewhat similar in composition. A coarse grained hornblende-biotite syenite and a slightly fresher-looking, sub-porphyritic, locally quartz-bearing syenite are separated by a northwest-trending 2,000 foot wide band of aphanitic feldspar porphyry of similar composition. The aphanitic feldspar porphyry and, to a lesser extent the coarse grained syenites are intruded by a dominantly northwest striking, vertical swarm of syenite porphyry, andesite, and lamprophyre dykes. Minor, more quartz-rich variants are also present.

LEGEND

CENOZOIC

TERTIARY

MIOCENE(?)

- **11** Basalt, olivine basalt

PALEOCENE OR EOCENE

- **10** PHOENIX VOLCANIC GROUP
  Andesite, trachyte; minor basalt; locally, interbedded tuff, shale, and/or siltstone
- **9** KETTLE RIVER FORMATION: rhyolite and dacite tuff; locally, conglomerate, sandstone, and shale; minor rhyolite flows and intrusive porphyritic rhyolite

PALEOCENE(?)

- **8** CORYELL INTRUSIONS: syenite; monzonite, shonkinite and granite

MESOZOIC

CRETACEOUS(?)

LOWER CRETACEOUS(?)

- **7** VALHALLA INTRUSIONS: granite, porphyritic granite
- **6** NELSON INTRUSIONS: granodiorite, porphyritic granite; diorite, monzonite, quartz monzonite
- **5** Ultrabasic intrusions, serpentinite

JURASSIC

- **4** ROSSLAND GROUP
  Andesite, latite; agglomerate and flow breccia; minor greywacke

PALAEOZOIC

PERMIAN(?)

- **3** ANARCHIST GROUP
  Greenstone, greywacke, limestone; paragneiss

PENNSYLVANIAN AND/OR PERMIAN

- **2** MOUNT ROBERTS FORMATION: greywacke, greenstone, limestone; paragneiss

PROTEROZOIC (?)

- **1** MONASHEE AND GRAND FORKS GROUPS
  Paragneiss; minor crystalline limestone and pegmatite

Table I - Geologic Column of the Kettle River Sheet (East Half

CHAPTER II - GEOLOGY

General Statement

Because the writer is not familiar with the geology of the region, the discussion under the heading "Regional Geology" is taken from references (see List, Page 28).

The grid area was mapped from September 18 to October 8, 1973. Considerable care was taken to map as many outcrops as possible. Some of the outcrops shown in the central-northeastern part of the grid may in fact be glacial boulders. Elsewhere boulder piles probably accurately represent underlying bedrock.

Petrographic descriptions are based on hand specimens collected by the writer, as well as stained slabs, and thin sections collected by the writer and previous workers.

Regional Geology

The vicinity of the Deer Park Property is underlain by coarse grained monzonite or syenite of the Paleocene Coryell Intrusions which intrude Cretaceous and older Valhalla and Nelson Intrusions of mainly granodioritic composition. Rocks mapped on the East Half of the Kettle River Map Sheet (Table I) include older ultrabasic intrusions, Jurassic volcanics of the Rossland Group, Late Paleozoic metamorphic rocks of the Anarchist Group and Mount Roberts Formation, and possibly Proterozoic paragneisses belonging to the Monashee and Grand Forks Groups.

Rhyolite, dacite tuffs, continental sediments, and rhyolite lavas of the Kettle River Formation overlie and may be in part correlative with the Coryell Intrusions. They are overlain in turn by basic volcanics of the Phoenix Group and Miocene olivine basalts.

Prominent north-trending fault and linear zones are displayed on the map sheet, including the Kettle River, Granby River, Burrell Creek, Christina Lake, and the northern part of submitted the property to AMAX in August of 1973.

Scope of Present Work

A grid using the existing line 70N as the base line, was cut and picketed. The base line was picketed at hundred foot intervals from 58E to 110E for a total distance of 5,200 feet. North-south cross lines were established at 200 foot intervals. They extend from 50N to 90N for a total length of 4,000 feet.

A detailed geological map was prepared by mapping all outcrops up to 50 feet from either side of the lines. Numerous rock specimens were collected from the various rock types encountered on the property.

Soil samples were collected at 200 foot intervals along the grid. The soils were analyzed for Mo, Cu, Ag, Zn, and W.

A magnetometer survey with readings at 100 foot intervals on all lines and an induced polarization survey measuring up to the fifth separation on alternate lines were also carried out.

This report details the results of the above work.

and spruce. Lodgepole pine, tamarack, and spruce are common in the upland areas. Drier, south-facing slopes support open jack-pine stands with little underbrush whereas the north-facing ones are thickly forested -- especially where they have been burned over some time ago. Windfalls are abundant in the western part of the grid and in conjunction with thick second growth make travel difficult.

Previous Work

The Deer Park Property includes old workings formerly known as the "Midas Group" which probably date back to the turn of the century. The workings include two adits, some open cuts, and a shaft.

The property was owned by G. Blaney of Vancouver from the 1950's to 1970. R.L. Loudon of Southwest Potash made a brief examination of the property in 1964.

During 1968 Scurry-Rainbow optioned and carried out a limited amount of work on the property.

West Coast Mining and Exploration staked the property in 1970. They carried out geological mapping, geochemical sampling, and a magnetometer as well as an EM-16 survey over the present grid area. Their work outlined several geochemical and magnetic anomalies and indicated the presence of several breccia zones to the south of the old workings which had been the site of earlier efforts.

Seven holes, totalling 1,800 feet were drilled within or near breccia zones during 1971. Each of the holes (See Figure 7, in pocket) intersected minor amounts of molybdenite mineralization. Hole #7 yielded by far the best intersection from 70 to 120 feet for a total of 50 feet averaging 0.22% Mo (approximately 0.3% MoS_2).

The property reverted to Veerman and Botel when West Coast Mining and Exploration, a syndicate, was disbanded. They

Veerman and Botel received an initial single payment of $5,000.00 upon signing the option agreement which calls for additional payments of $500.00 per month commencing June 30, 1974 to September 30, 1974. The remainder of the payments are listed in tabular form below.

Period	Initial Payment	Monthly Payment	Aggregate Total
	$	$	$ 7,000
October 1,1974	5,000		12,000
October 31,1974-September 30,1975		500	18,000
October 1,1975	10,000		28,000
October 31,1975-September 30,1976		1,000	40,000
October 1,1976	15,000		55,000
October 31,1976-September 30,1977		1,000	67,000
October 1,1977	10,000		77,000
October 31,1977-September 30,1993		2,000	(to September 30, 1978) 101,000

The payments schedule will be superceded by 10% net profits when this amount is greater than $2,000.00 per month.

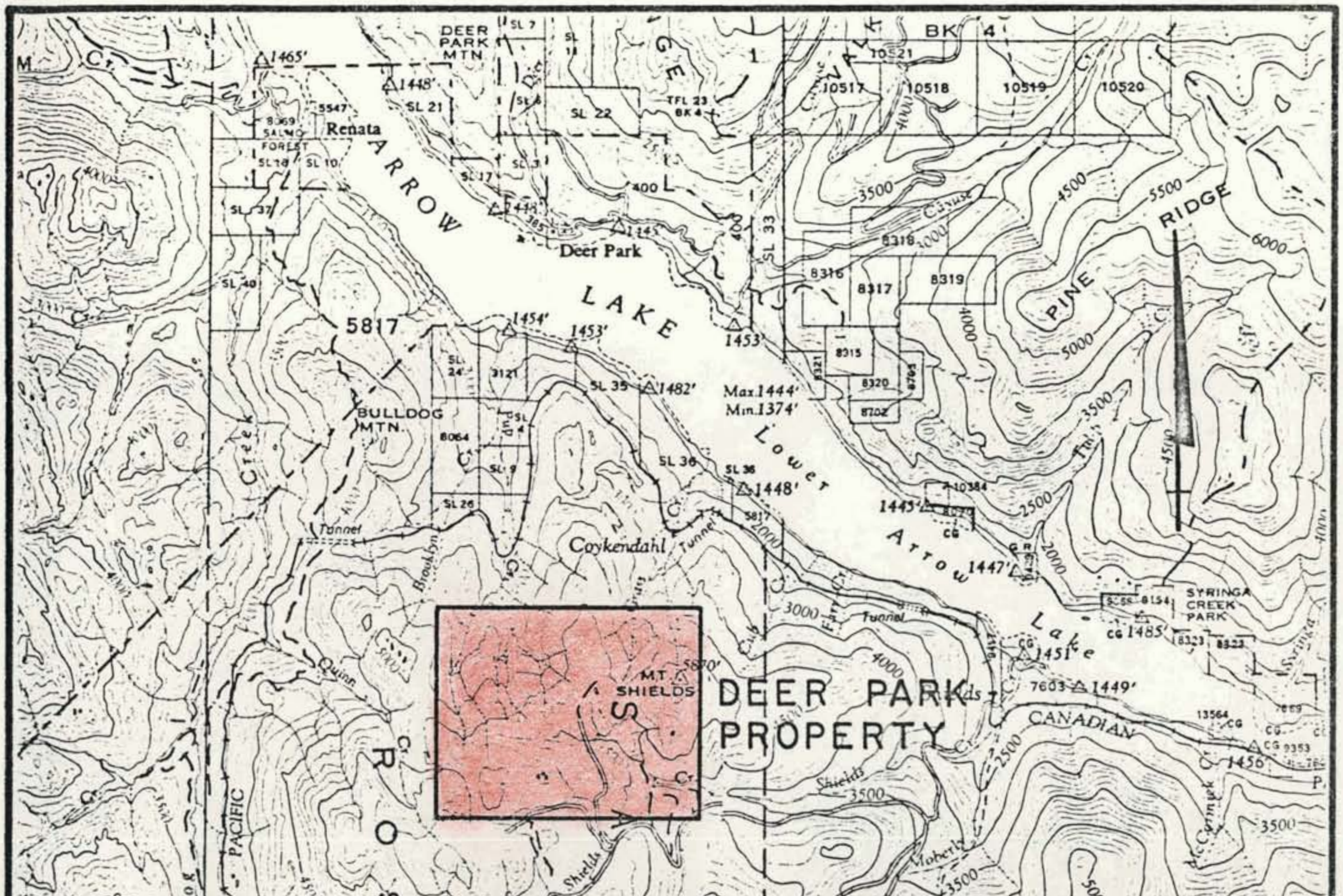
Work commitments stipulate only that the mineral claims included in the Agreement must be maintained in a condition equivalent to their present standing by doing and recording work and paying of all rentals and fees. The owners may file excess work at their expense.

Physiography and Vegetation

The Deer Park Property is located on a gently undulating upland surface at elevations ranging from 4,500 to 5,500 feet at the northern end of the Rossland Mountains - a minor subdivision of the southern Monashee Mountains. Mount Shields, a prominent nearby landmark, rises to an elevation of 5870 feet.

Although regional relief is great, slopes on the grid are mostly moderate to gentle (Figure 1).

The region is heavily timbered. Valley floors and slopes support a dense, luxuriant growth of cedar, fir, hemlock,



AMAX EXPLORATION INC.

5197

M 1

DEER PARK PROPERTY

TRAIL CREEK MINING DIVISION — BRITISH COLUMBIA

LOCATION MAP

H. J. Sellmer

SCALE 2 1 0 2 MILES

1 : 126,720

N.T.S. Ref. 82 E 8

FIG. 1

CHAPTER I - INTRODUCTION

Location and Access

The Deer Park Property (Figure 1, after page 1) is located at an elevation of 5,000 feet on a north branch of Upper Shields Creek. Lower Arrow Lake lies four miles to the north and the town of Castlegar on the Columbia River lies 18 miles to the east. Approximate coordinates for the center of the property are 49°02'N and 118°02'E.

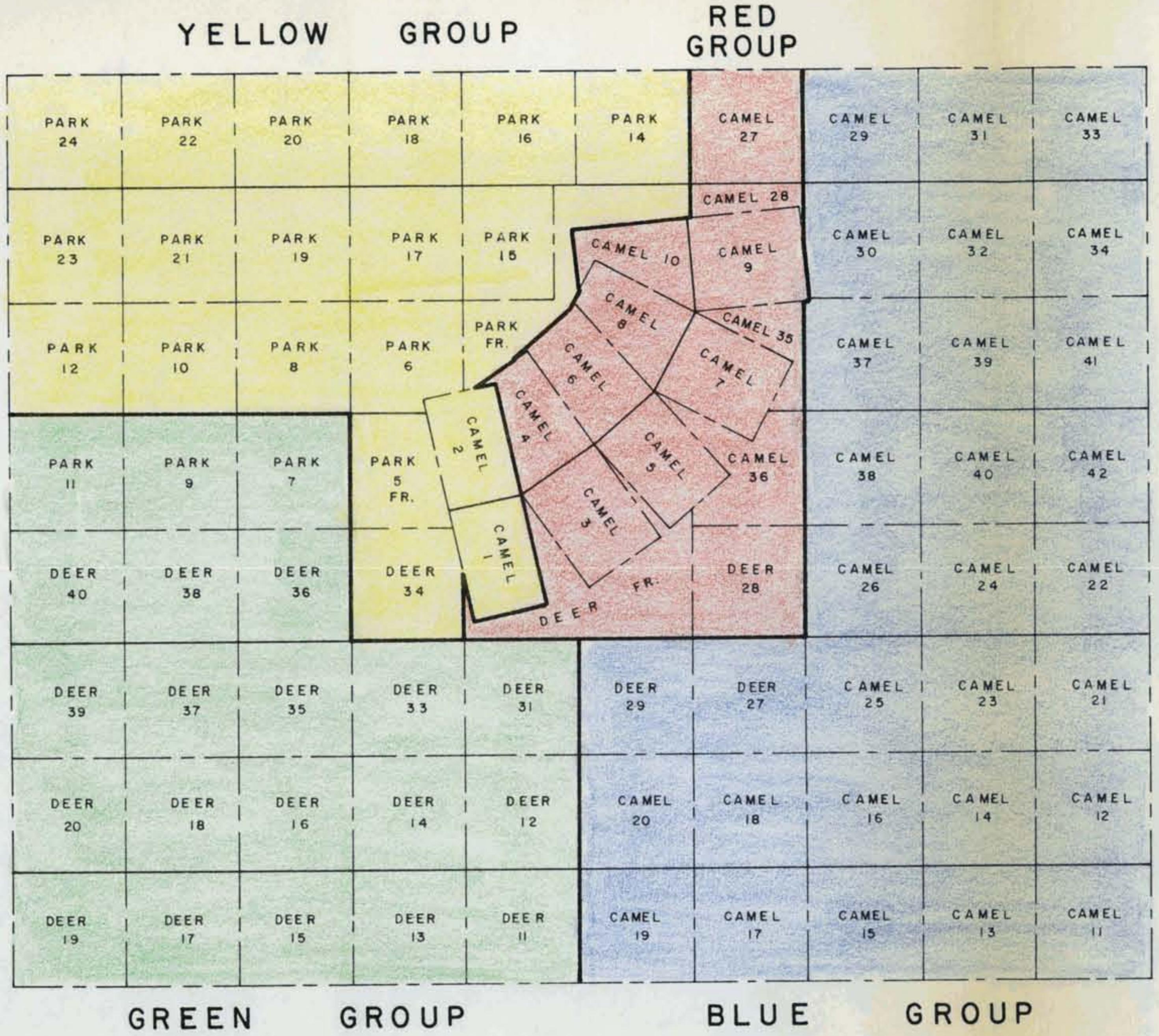
The claims are accessible by road. Kinnaird, the nearest settlement, is 30 miles away. Approximately 17 miles of the total distance are along the Blueberry-Paulson Highway (#3). A gravel road heading north leaves the highway immediately east of the Rossland cut-off -- the junction between Highway #3 and #3B -- and descends into the valley of Moberley Creek. Eight miles from the highway a road turns off to the west and follows the south side of Shields Creek. A branch to the north leads onto the property. The latter part of the road is rough and locally steep so that 4-wheel drive may be required in bad weather or when the road is soft or snow-covered.

The Canadian Pacific Railroad skirts the south side of Lower Arrow Lake and passes within four miles of the central part of the property.

Claims

The Deer Park Property at present encompasses a total of 85 claims (Figure 2, after page 2). A complete claim schedule is found in Appendix II. Outlines of four groups into which the claims are assembled are shown in Figure 2.

The Deer, and Park claims, and respective fractions (43 claims) form the basis for the original option agreement with the owners, Heinz Veerman and William Botel. The remaining 42 claims, Camel 1-42, were staked by AMAX during September 1973, and are included in the agreement as additional claims.



5197
M2

AMAX EXPLORATION INC.

DEER PARK PROPERTY

TRAIL CREEK MINING DIVISION — BRITISH COLUMBIA

CLAIM MAP

H. W. Sellner

SCALE 2000 1000 0 2000 FEET
1 : 24,000

H.P.
N.T.S. Ref. 82 E 8
FIG. 2

with chlorite-magnetite alteration in shear zones which cut the sub-porphyritic coarse grained syenite.

Minor amounts of chalcopyrite, and rarely sphalerite were noted in carbonate-fluorite altered shears usually in close proximity to syenite porphyry.

Tungsten, in the form of scheelite and wolframite (?) was noted in some of the breccia.

Description of Rock Types

Coarse grained hornblende-biotite syenite - the oldest rock type on the property is exposed mainly in the southwest corner of the grid. Several pendants and inclusions occur in aphanitic feldspar porphyry at 75E-70N, 76E-52N, 82E-58N, and elsewhere.

The rock is coarse grained with locally pegmatitic clots. Dark-grey streaks and clots of mafics which are scattered throughout chalky-grey feldspar grains impart an indistinct foliation.

Interlocking sub- to anhedral K-feldspar grains (80-60%) (3 - 6 mm.) with interstitial plagioclase (5-20%) anhedra and exsolution lamellae (1 - 3 mm.), coarse clusters of ragged brown or green biotite (5-10%), and subhedral green hornblende laths (5-15%) comprise the rock. Large crystals of sphene (up to 5 mm.) and subhedral grains of magnetite (2 - 4 mm. rarely up to 2 cm.) with feldspar inclusions are locally important accessories. Pyrite (up to 2%) replaces mafics and occurs as fracture fillings in coarse grained syenite inclusions near 75E-70N.

Coarse to medium grained subporphyritic syenite underlies much of the northeastern half of the grid. It is also found as several pendants and inclusions within the aphanitic feldspar porphyry.

Subporphyritic syenite is light to dark pink and fresh in appearance. Large (8 - 12 mm.) strongly zoned K-feldspar phenocrysts (60%) with locally albitic rims are set in a sericite groundmass composed of sub- to euhedral K-feldspar (15%), biotite (5%), plagioclase (10%), and quartz (10%). Quartz content is variable; it may be as high as 10-15% near the contact with aphanitic feldspar porphyry at the expense of plagioclase and K-feldspar. At some distance from the contact quartz content is less than 5%. Fine grained magnetite is common in some specimens.

Aphanitic feldspar porphyry underlies much of the central part of the property in a 2,000 foot wide northwest trending zone.

The rock ranges in color from light grey-green with a pronounced waxy appearance to fresh pink or buff. It is commonly weakly porphyritic. In the southeastern part of the grid exposures are altered (clay-sericite ?) giving them a banded appearance.

Plagioclase, orthoclase, and rarely quartz phenocrysts are set in a groundmass composed of myrmekitic, aplitic, or fine grained to aphanitic mixtures of K-feldspar, quartz and plagioclase. Quartz content varies widely. In some specimens little quartz is present, others may contain up to 20% quartz in the groundmass.

Phenocrysts (5-20%) are commonly anhedral. Plagioclase cores or clusters are mantled by a continuous K-feldspar rim. Elsewhere ragged K-feldspar with relatively rare plagioclase phenocrysts occur.

Magnetite is found as fine grains and dustings in the matrix in variable amounts. Pyrite cubes (up to 3 mm.) are locally common in the buff aphanitic porphyry.

Chlorite, biotite, magnetite, hematite, and pyrite are commonly found in numerous hairline fractures which traverse the rock.

Medium grained alaskite occurs as a number of small highly irregular lenses which have sharply gradation contacts with the surrounding aphanitic feldspar porphyry (Figure 3, in pocket) which is commonly quartz-rich in its vicinity.

The rock is pale pink or cream, granitic textured, and is composed of an interlocking aggregate of feldspar (30-50%), plagioclase (15-30%), and quartz (30-35%). Magnetite and hematite are abundant as irregular patches, fracture fillings, and numerous quartz magnetite veins.

Feldspar-biotite porphyry comprises several large vertical northwest striking dykes in the western and northeastern part of the grid. The rock is light grey and pink in color and is conspicuously porphyritic.

Plagioclase euhedra (20%, 3 - 10 mm.), K-feldspar (10%, 3 - 7 mm.), and infrequently quartz eyes (5%, 3 - 5 mm.) are prominent phenocrysts. Ragged biotite books (5%, 2 - 4 mm.) are less conspicuous. They are set in a fine grained to aphanitic K-feldspar-rich groundmass.

Grey and pink syenite porphyry dykes are abundant in the central part of the property. They range from several inches to several tens of feet in width, strike northwest, and are vertical. Infrequent exceptions strike east-northeast or northeast (Figure 3, in pocket).

Conspicuous white to pink euhedral, strongly zoned feldspar phenocrysts or clusters of phenocrysts are set in a medium grey to pink fine grained groundmass. Phenocrysts locally have albitic cores with K-feldspar rims which may be continuous about a cluster of cores. Broken phenocrysts and fragments of phenocrysts are abundant resulting in a seriate texture. In several specimens the phenocrysts and matrix are brecciated and reinjected with additional groundmass material.

Seriate, euhedral to broken phenocrysts (2 - 30 mm.) now largely K-feldspar (50%) are set in a groundmass composed mainly of K-feldspar with lesser amounts of plagioclase, biotite, and quartz in decreasing order of abundance. Magnetite is conspicuously present as numerous grains (1 - 2 mm.) and fine dusty disseminations. Cavities containing crystals of fluorite, calcite, chlorite, quartz, pyrite, hematite, and chalcopyrite are locally present.

Andesite and lamprophyre dykes are commonly found as apophyses or distant projections of syenite porphyry dykes and are in part closely related. They contain infrequent phenocrysts which closely resemble those of the grey syenite porphyries. The groundmass is commonly darker and more mafic-rich. Locally where biotite phenocrysts are abundant and K-feldspar phenocrysts absent the rocks are lamprophyres. Their distribution and attitudes are similar to grey syenite porphyry dykes. They range in width from an inch or less to several feet.

Breccia occurs as a series of elliptical or irregular east-west striking steeply dipping zones in the central part of the grid. Although the breccia zones are probably discontinuous they underlie an area approximately 1000 feet wide by 4000 feet long which is open to the east. Contacts with enclosing rocks are variable and may be very sharp, dyke-like or may grade through a zone of shattering with little dislocation.

Breccia fragments range in size from very fine (1 mm.) fragments which locally comprise the matrix to large unrotated blocks several feet or even tens of feet in diameter surrounded by stringers of finely comminuted rock. Although many of the breccia fragments probably are not distant from their source the presence of chaotic assemblages which do not resemble the adjoining wallrocks and rare graded layers of fine fragments suggest that at least some of the breccia fragments have been transported.

The matrix is composed of finely comminuted rock, vuggy open spaces, and/or grey syenite porphyry which locally is itself brecciated.

Fluorite, carbonate, magnetite, hematite, pyrite, chalcopyrite, molybdenite occasionally to fill cavities or rim fragments.

Both andesite and grey syenite porphyry dykes are locally seen to cut the breccia although fragments of both rock types are common in the breccia.

Alteration

Hydrothermal alteration consists of weak clay-sericite(?) alteration with local patches of silicification developed over much of the central grid area. Pervasive K-feldspar flooding is irregularly developed within and at the edges of the breccia.

Weak clay-sericite alteration corresponds closely in distribution with that of the aphanitic feldspar porphyry. Rocks affected by this type of alteration usually become waxy or chalky in appearance. Colors vary from cream to grey with locally pronounced banding. The alteration appears most intense at the western edge of the breccia zone and beyond it (Figure 3, in pocket). Small patches of locally intensely clay-sericite-silica altered rocks are found near 90E-50N.

Intense K-feldspar alteration was noted in grey syenite porphyry breccia and in aphanitic feldspar porphyry near the western end of the breccia zone, and in core from West Coast Exploration diamond drill holes. Phenocrysts in both rock types are rimmed with K-feldspar and large areas of essentially K-feldspar are developed in the groundmass.

Several shear zones containing chlorite, magnetite, and in some instances molybdenite occur on the grid, notably at 63E-70N, 76E-88N, 73E-70N, and elsewhere.

Quartz veining, quartz-magnetite veining, and magnetite-hematite filled fractures are prominently developed within and near the aphanitic feldspar porphyry. Contours showing vein intensity per foot are shown in Figure 3 (in pocket). The area of abundant magnetite in veins or fractures is also outlined. Several areas of intense veining are outlined. The largest of these appears to wrap around the western end of the breccia zone. A local vein intensity high centered on 69E-81N may indicate breccia at depth. A zone of intense quartz magnetite veining at 76E-90N is actually a sheeted vein zone in which closely spaced quartz-magnetite veins strike northeast and dip 30°N. Numerous magnetite-bearing fractures and hairline veinlets occur between the veins.

Structural Geology

The northwest trend of the aphanitic feldspar porphyry, the syenite porphyry, and andesite dykes as well as the east-west trend of the breccia zones emphasize the importance of structure on the Deer Park Property.

With few exceptions grey syenite porphyry, andesite, and lamprophyre dykes occupy northwest striking vertical dilation fractures. Although most of the larger dykes persist for at least several hundred feet, smaller ones tend to be lensoid and pinch out rapidly at either end. En echelon arrangement of several small dykes is common particularly as projections of larger dykes.

Northeast striking dykes are uncommon as are ones which strike east-west and north-south (Figure 3, in pocket). Several andesite dykes strike east-west in an area of intense quartz-magnetite veining at 69E-81N. The strike of large grey syenite porphyry dykes appears to trend more north than northwest at the southeastern edge of the grid.

The breccia appears to be a series of vertical en echelon lenses which occur in a broad east-west zone. Several tails of the breccia at 74E-70N appear to trend northwest and northeast.

Although dyke offset is rarely demonstrable faults are numerous in the grid area. They strike mainly northwest with steep dips but north-south, north-east and east-west striking faults are also noted. Left lateral offset is observed on north-east and east-west striking faults at 68E-78N and 70E-54N, respectively.

Molybdenite mineralization associated with chlorite and magnetite was observed in an east-west striking vertical shear or fault zone at 75E-87N. Chalcopyrite, fluorite, and hematite were noted where northeast striking shear zones traverse grey syenite porphyry dykes at 65E-81N, 68E-78N, 98E-87N, and elsewhere.

Quartz veins, quartz-magnetite veins, hairline fractures with magnetite and/or quartz coatings are prominent in the aphanitic feldspar porphyry, infrequent in the coarse grained syenite and subporphyritic syenite, and rare in grey syenite porphyry. North-west and north-east striking veins with steep to moderate variable dips are common. North-south/vertical and east-west/vertical veins are less abundant and are rarely the dominant set.

Vein intensity locally exceeds 10 veins per foot, magnetite or quartz coated fractures may exceed 30 per foot in areas where the rock is thoroughly shattered.

The close temporal and spatial association of the grey syenite porphyry dykes, andesite-lamprophyre dykes, and the breccia suggests that they may be emplaced by the same structural event. The dykes occupy dilation zones developed by stresses which eventually led to rupture and brecciation more or less simultaneous with syenite porphyry intrusion.

Sulphide Mineralization

Molybdenite is the mineral of potential economic interest on the Deer Park Property. Minor amounts of chalcopyrite, sphalerite, scheelite and wolframite(?) are present. Pyrite is locally abundant. Magnetite and, to a lesser extent, hematite are ubiquitous. Several occurrences of fluorite are also noted.

Relatively little mineralization is found on surface. Only three molybdenite occurrences are known on the grid area. Several others are exposed to the north in old workings. Two occurrences of chalcopyrite and three of fluorite have been mapped (Figure 3, in pocket).

Diamond drilling by West Coast Mining and Exploration, encountered only short, sporadically mineralized, intersections carrying less than 0.05% Mo and up to 0.06% WO_3 in Holes 1 to 6. Hole 7 contains 0.22% Mo (0.36% MoS_2) from 70 to 120 feet (50 feet of intersection) with the remainder above and below averaging 0.02 - 0.03% Mo to a depth of 265 feet (Figure 7, in pocket). Minor amounts of copper and zinc mineralization with silver values less than an ounce per ton were encountered as well.

Although the drilling to date returned only one encouraging intersection, it indicates that molybdenite mineralization is closely associated with breccia. Pyrite, molybdenite, fluorite, and minor chalcopyrite in vuggy cavities, as linings around breccia fragments, in fractures, and irregular coarse disseminations are closely associated in Hole 7.

The quartz vein and quartz-magnetite vein stockwork does not appear to contain any molybdenite. At 70E-81N one fracture which contains molybdenite, magnetite, and quartz was found. It is the only known exception.

CHAPTER III - GEOCHEMISTRY

General Statement

A total of 609 samples comprising 43 rock chips and 566 soils were collected from the Deer Park Property (Figure 4, in pocket). Results of analyses, environmental parameters, etc. are tabulated in Appendix I.

Anomalous areas of this survey correspond closely to those previously outlined (See References).

Method

Soil samples were collected at 200 foot intervals along the base line and all cross lines. Rock chips were taken in conjunction with handspecimens collected during geological mapping. Samples of the major rock types present on the property were collected and analysed for the following:

K_2O	Ba
Na_2O	Sr
CaO	Rb
SiO_2	Nb
	Ti
	Zr
	Sn
	Ta

Soil samples were collected from the B horizon with the aid of a mattock and placed into numbered Kraft "wet-strength" sample envelopes. Rock chips were collected over an area of several hundred square feet of outcrop, taking care that only one rock type was sampled.

The samples were shipped to the AMAX Laboratory in North Burnaby where they were analyzed for Mo, Cu, Ag, Zn, and W. Every fourth soil sample was also analyzed for pH.

Analytical and environmental data are recorded on data sheets from which computer data cards were keypunched.

Cumulative frequency plots, mean, and standard deviation were calculated for soils using the computer (Appendix I).

Mo, Cu, Ag, Zn, and W content of soils was contoured by hand using the intervals shown below:

Element	Contour interval in ppm
Mo	10-30-50-100
Cu	20-40-60-100-200-500
Ag	2-3
Zn	150-250-500-1000
W	5-10-20-40

These maps are condensed into a single multi-element anomaly map (Figure 4, in pocket) showing areas with anomalous metal concentrations in the concentration intervals noted below:

Element	Anomalous ppm	+	Highly Anomalous Metal Concentrations ppm
Mo	30-100	+	100+
Cu	60-200	+	200+
Ag	3+		
Zn	500-1000	+	1000+
W	10-20	+	20+

Environment

The Deer Park Property lies on a subdued upland surface at an average elevation of 5000 feet. Relief on the grid is moderate except in the northwest corner which includes part of the steep slopes, ending at Lower Arrow Lake and a prominent northeast trending bluff between lines 66E and 90E. Rugged topography with small areas of steep slopes is also encountered at the south edge of the grid between lines 82E and 96E.

An alpine southern interior type of climate with hot summers and cold winters prevails in the region. First snow fall usually occurs in early October and snow stays on the ground from mid-October until June. Total snowfall is in the order of 10 to 15 feet. The summers are hot with temperatures in the 80°F range. Rainfall is sparse so that forest fires are a serious hazard in the area during much of the summer.

Vegetation includes open stands of pine with virtually no underbrush on drier south-facing slopes and densely forested north-facing slopes on which cedar, spruce, balsam fir, hemlock, jackpine, and western larch are common species. Much of the area has been periodically burned over so that little if any primary growth remains. The older burns are forested by thick stands of pine, spruce and fir with abundant windfall. A recent burn in the southeastern part of the grid has left numerous dried and blackened snags in what was once a dense jackpine stand.

The area has been glaciated. Numerous subdued and locally striated roches moutonees typify the exposures found on the southern half of the grid. A thin veneer of glacial debris, fluviatile sand, and intermixed volcanic ash covers the west central grid. Talus aprons are developed at the foot of the bluffs in the northwestern part of the grid. A sandy boulder till derived from dominantly intrusive rock underlies the north-eastern part of the grid. It contains numerous extremely large boulders (up to 15 feet in diameter) and is locally interbedded with fluviatile deposits which appear to have their source to the north and west.

Because of the high seasonal variation in moisture content, the soils are well oxidized. Excellent podzolic soils with pronounced Ah, Ae, and Bf horizons are developed on rusty fractured bedrock, glacial, or fluvioglacial deposits. Relatively small patches of gleysols and locally peat are developed in the swampy central part of the grid and at the edges of a creek which parallels the base line. Several small ponds which are dry in late summer are found in the northwest corner of the grid. Their bottoms are gleysols or mottled gleysols.

Soils from a number of sites in the western part of the grid area are considered being residual. Although they are close to bedrock, well oxidized, and probably close to parent material, they are strictly speaking not residual but glacial in origin. The metal values contained in them are, however, in all likelihood an accurate reflection of bedrock values.

Soils from talus slopes at the foot of the bluffs in the northwest portion of the grid are immature mixtures of organic debris and finely comminuted rock, and probably reflect metal contents of physically dispersed material from the bluffs.

The above observations suggest that soils reflect variations in metal content of the underlying rocks in the western and southeastern part of the grid. The bedrock expression is masked by a thick till cover over most of the northeastern grid area east of 86E. An anomaly centered on base line 106E may be in part transported.

Discussion of Results

Based on comparisons with 1968 regional reconnaissance data soils collected over the grid contain anomalous concentrations of Mo, Cu, Zn, and Ag. No W data is available for comparison. Prominent local anomalies are also noted. They are multi-element and appear to be closely associated with breccia, syenite porphyry dykes, or zones of intense fracturing, quartz veining, and magnetite-quartz veining in or near the aphanitic feldspar porphyry.

The distribution of patterns of Mo, Cu, Ag, Zn, and W are discussed below:

Mo - The Mo content of soils ranges from 1 to 140 ppm. All values below 10 ppm are considered to be local background. Anomalous values greater than 30 ppm are considered significant in that they clearly reflect the breccia zone and, to a lesser degree an area of quartz-magnetite vein stockwork to the northwest of DDH #7.

An anomaly with a peak value of 60 ppm occurs on lines 64-66E between 82-84N. It is underlain by intensely fractured and quartz-magnetite-veined aphanitic feldspar porphyry and medium grained leuco quartz monzonite intruded by a number of northwest striking, vertical syenite porphyry dykes. A small dyke of breccia is mapped nearby.

Two anomalies with peak values of 70 and 68 ppm Mo, occur to the east at 74E-86N and 78E-78N, respectively. Their geological setting is similar to the one above. The major rock type is sub-porphyritic monzonite but the aphanitic feldspar porphyry phase is nearby.

A series of prominent Mo anomalies trend east-west near the base line from 74E to 110E. The anomaly appears to extend eastward beyond the grid. Peak values include 106, 76, and 140 ppm Mo. The breccia zone coincides closely with these anomalies.

An anomaly having a peak value of 62 ppm Mo lies just east of the breccia zone. West Coast DDH #4, which extends below the southeastern tail of the anomaly at 76E-62N in an area of little exposure, intersects breccias for most of its length.

Several small areas having soils with greater than 30 ppm Mo occur in areas of complex dyke intrusion at 78E-56N, 96E-58N, 104E-58N, 108E-52N, and 110E-62N.

Cu - Copper values range from 12 to 1720 ppm. Values lower than 60 ppm are background while values greater than 200 ppm are definitely anomalous.

The 60 ppm contour outlines a series of anomalous areas which correspond closely with the breccia zone. In addition smaller anomalous areas coincide with exposures of grey syenite porphyry dykes between 70E-72N and 64E-84N. Anomalies at 60E-64N, 70E-60N, and elsewhere may reflect the presence of syenite porphyry dykes as well.

Ag - Silver values range from 0.5 ppm to 5.0 ppm. Background is less than 1.5 ppm Ag. Anomalies appear to correlate to a limited extent with the breccia but are prominent just beyond the western end of the breccia from 78E-66N to 58E-68N. A silver anomaly trends northwest from 70E-54N to 58E-68N. It is open to the northwest.

Zn - Zinc values in soils range widely from 80 ppm to 1940 ppm. A background value of 300 ppm clearly distinguishes the areas underlain by coarse grained monzonite and sub-porphyritic monzonite (less than 300 ppm Zn) from the aphanitic feldspar porphyry (greater than 300 ppm Zn). Breccia and in part grey syenite porphyry appear to correlate well with peak Zn anomalies (greater than 1000 ppm).

The strongest Zn anomalies occur in an area underlain by breccia centered on 78E-68N; near exposures of grey syenite porphyry dykes at 70E-72N, 68E-78N, 64E-84N, and 62E-64N; and in an area of sub-porphyritic monzonite intruded by several dykes near a sheeted quartz-magnetite vein zone and a molybdenite occurrence at 80E-88N.

W - Tungsten values range from 0 to 600 ppm in Deer Park soils. 5 ppm W or less is considered background for the property. The areas of soils having greater than 5 ppm W correspond closely with the contact area between quartz-rich sub-porphyritic monzonite and aphanitic feldspar porphyry. Peak anomalies occur over the breccia. The highest anomaly (600 ppm W) occurs at 74E-88N just west of a sheeted quartz-magnetite vein zone and near a molybdenite occurrence exposed is a small trench.

The coincidence of anomalous concentrations of Mo, Cu, Ag, Zn, and W over the breccia zone is the most striking geochemical feature of the property and clearly indicates that the breccia has some control in localizing the distribution of metals. Anomalies also tend to indicate areas of syenite porphyry, and to a lesser extent areas of quartz-magnetite veining indicating that these features may be closely related to mineralization. The discontinuous nature of the anomalous areas probably reflects erratic sulphide distribution within the breccia zone.

Anomalies of probable economic significance include 66E-80N, (Cu, Ag, Mo, Zn); 70E-70N, (Mo, Ag, Cu, Zn); 76E-68N, (Cu, W, Zn, Mo, Ag); 90E-64N (Cu, W, Ag, Mo, Zn); 96E-68N, (Cu, Mo, W); and 108E-70N, (Mo, Cu, W). Of these only the last may be transported although the source is probably nearby to the southwest.

Drill holes are planned to test five of the six anomalies listed above.

MAGNETOMETER SURVEY

Introduction

During the period October 22 to October 28, 1973 twenty-one line miles of ground magnetometer surveying were completed on the Deer Park Molybdenum Property. Measurements were obtained every 100 feet on cut grid lines spaced two hundred feet apart.

The survey was initiated to aid in outlining the distribution of major lithological units on the basis of their magnetic susceptibility and to define important structrual trends.

The magnetism of all rocks is controlled by their content of ferromagnetic material, i.e. substances possessing a relatively high susceptibility and capable of acquiring permanent magnetization. Often intrusions are accompanied by widespread hydrothermal alteration zones in which ferromagnetic minerals, principally magnetite, may be redistributed to the periphery of alteration.

Instrument and Procedure

The instrument employed was the Model G-816 portable proton magnetometer, manufactured by Geometrics, of 914 Industrial Avenue, Palo Alto, California. The proton free precession magnetometer operates on the principle of nuclear magnetic resonance to produce a measurement of the total magnetic intensity of the earth's field. The instrument includes a console powered by 12 size 'D' flashlight batteries, a fluid filled sensor, and a connecting signal cable. The sensor is carried in a back pack shoulder halter. In this configuration the total instrument weight is 4.3 kg. (9.5 lbs.). Values are obtained from a digital display readout. Operating temperatures are from -40°C to 85°C.

Station 110+00E, 70+00N on the baseline was selected as the datum value for the survey. The baseline was surveyed west from this point to station 58+00E, 70+00N and then resurveyed back to the starting position. Tie in stations were established at each cross line intersection and corrections were made for the diurnal variation of the earth's field. The north-south oriented cross lines were then surveyed at 100 foot station intervals and diurnal corrections were calculated by looping to the baseline reference points.

Corrected values are plotted on a scale of 1"=200 feet and are presented in Figure 5.

Results and Discussion

A comparison of geology and magnetic anomalies suggest that two rock types have a high magnetic susceptibility. They are magnetite rich phases of the breccia and some portions of the coarse grained hornblende-biotite syenite. Of four magnetic anomalies (numbers 1, 2, 3 and 4 in Figure 5) which correlated with surface breccia exposures, three have been tested by shallow drilling and found to be underlain by breccia.

Hole #7 intersects 70 feet of 0.3% MoS_2 near the southern margin of anomaly 1. Drill holes #4 and #5, #6 which respectively tested anomalies #2 and #3 remained entirely within the boundaries of magnetic highs and encountered breccia without significant molybdenum values. These observations suggest that molybdenite may be concentrated at the contact zones of the breccias. Anomaly #4 is the largest anomaly attributed to magnetite rich breccia. It has not been drilled. Its elongate shape suggests a west-northwest structural control. This anomaly should be tested because it may be the west extension of anomaly #1.

INDUCED POLARIZATION SURVEY

Introduction

Geological mapping of the Deer Park Property revealed the presence of abundant pyrite within the breccia units near the adit at 73+00E and 68+00N and also in core from diamond drill hole #7. Before AMAX optioned the property, the baseline and several widely spaced, flagged cross lines were surveyed employing AMAX's portable I.P.R.-7 Newmont-type receiver and a battery powered 250 watt Crone transmitter. This preliminary survey revealed the presence of an induced polarization anomaly centered near coordinates 76+00E, 70+00N and open to the west. (See Deer Park file for contoured first separation chargeabilities.) The effective penetration of this survey was 200 feet and the highest chargeabilities that were obtained (50-60 milliseconds) were interpreted to reflect 3-4% sulphides by volume. After the property was optioned and a grid was established, a survey to test the depth and extent of the anomaly was carried out by Scintrex Surveys Ltd.

Scintrex Survey Results

A report describing the survey by M.J. Lewis and P.R. Bailey of Scintrex Ltd. is available in the company files. A summary of their report and some additional observations are given below.

The largest induced polarization anomaly occurs in the western portion of the grid area and is labelled zone "A" on Plate 6 of the Scintrex report. This anomaly has a strike length of 2400 feet and is approximately 1000 feet wide. The pseudo-section profile plots indicate a relatively flat-lying polarizable source interpreted to reflect 2% - 4% total sulphides by volume. The source does not extend below a depth of 300 feet except in three narrow northwest trending zones characterized by high chargeabilities. The surface projection of the north zone lies between coordinates 82+00E, 71+50N and 78+00E, 73+40N. The central zone exhibits the highest chargeabilities on the property. It occurs between coordinates 78+00E, 67+00S and 74+00E, 68+00S and may extend to 70+00E, 69+00S. The third zone lies at the southwest margin of anomaly "A" between coordinates 70+00E, 60+50S; 66+00E, 63+00S and 62+00E, 65+50S. The three zones represent the highest concentration of sulphides on the property and may constitute important target areas if pyrite is associated with molybdenum mineralization as in hole #7. The northern and central zones have coincident geochemical, magnetic and geological anomalies and will be tested by proposed diamond drill holes #1 and #2 respectively. If either of the above enounter molybdenite the southwestern zone should also be tested.

Three other small induced polarization anomalies are labelled on Plate 6. These appear to be caused by localized concentrations of sulphides having little depth extent. Two of these anomalies should be tested by drilling because they coincide with other favourable exploration guides. Anomaly "C" may be the most promising. It is located on the northern boundary of a magnetic anomaly near the nose of a mapped breccia zone and has an associated molybdenum soil anomaly. Anomaly "D", since it occurs adjacent to the highest geochemical anomaly on the property (greater than 100 ppm Mo) is also of interest.

April, 1974

H. W. Sellmer

H.W. Sellmer

G.M. DePaoli

LIST OF REFERENCES

BOTEL, W.G. - 1971 - Annual Report 1971 Part II Deer Park Property

LEWIS, M.J. et al - 1973 - Report on Induced Polarization Survey Deer Park Project

LITTLE, H.W. - 1957 - Geology of Kettle R. E 1/2 Map 6-1957

LOUDON, J.R. - 1964 - Report on the Midas MoS_2 Group

VEERMAN, H. - 1970 - Annual Report 1970 Part III Deer Park Property

VEERMAN, H. - 1973 - Geochemical Report on the Deer 27 and Deer 28 Mineral Claims.

APPENDIX I

GEOCHEMICAL DATA LISTING AND CUMULATIVE FREQUENCY PLOTS

KEY FOR GEOCHEMICAL DATA LISTING

1. SAMPLE IDENTIFICATION
- a) Last digit of year
- b) Project, sampler, type
- c) Sample number

2. LOCATION 9-21
- Two digit zone number
- Five digit easting
- Six digit northing

3. TYPE OF SURVEY 22

Regional Recce (UTM)	R
Detail Recce (UTM)	D
Property, local grid	P
Property, no grid	N
Sample profile	F

4. GEOLOGICAL UNIT 23,24
- Alphabetic code

5. DRAINAGE TYPE or PARENT SOIL MATERIAL 25

Silt	
Sheetwash	1
Seepage	2
Stream youthful	3
Stream mature	4
Stream aggrading	5
Soil	
Glacial till	6
Talus fan	7
Fluviatile sand/gravel	8
Loess	9
Residual	0

6. CHANNEL DIMENSIONS 26-28
- Width at water level in feet. OR
- Soil Sample Depth: Depth of soil sample in inches

7. NATURE OF MATERIAL SAMPLED 29

Organic debris	Ø
Clay	L
Silt	S
Fine sand	F
Coarse sand	C
Gravel	G
Unsorted	U

8. STREAM VELOCITY 30

Dry	1
Stagnant	2
Slow	3
Moderate	4
Fast	5
Torrential	6

9. SAMPLE COLOUR 31,32

Tone		Base	
Light	L	White	W
Medium	M	Grey	G
Dark	D	Black	K
Mottled	S	Brown	B
		Yellow	Y
		Orange	Ø
		Red	R

10. POSSIBLE CONTAMINATION 33

Mn precipitate	1
Fe precipitate	2
Humus accumulation	3
Mine Dump	4
Caliche	5
Mill tailings	6
Industrial effluent	7
Domestic garbage	8
Other - see remarks	9

11. SOIL TYPE 34,35

Wooded grey soil	WG
Wooded brown soil	WB
Grassland grey soil	GG
Grassland brown soil	GB
Podzol	PL
Gleyzol	GS
Humic gleysol	GH
Peat	PT
Sand	SD
Till	TL
Talus fines	TF

12. SOIL HORIZON 36,37
- Main characteristics of horizon sampled
- LH AH FH AE
- BF BT BM BG BH BC
- CG CC

13. FLOAT 38,39
(see also remarks)

Mineralization	M
Alteration	A
Favourable rock type	R
Other	Ø

14. LANDSCAPE 40

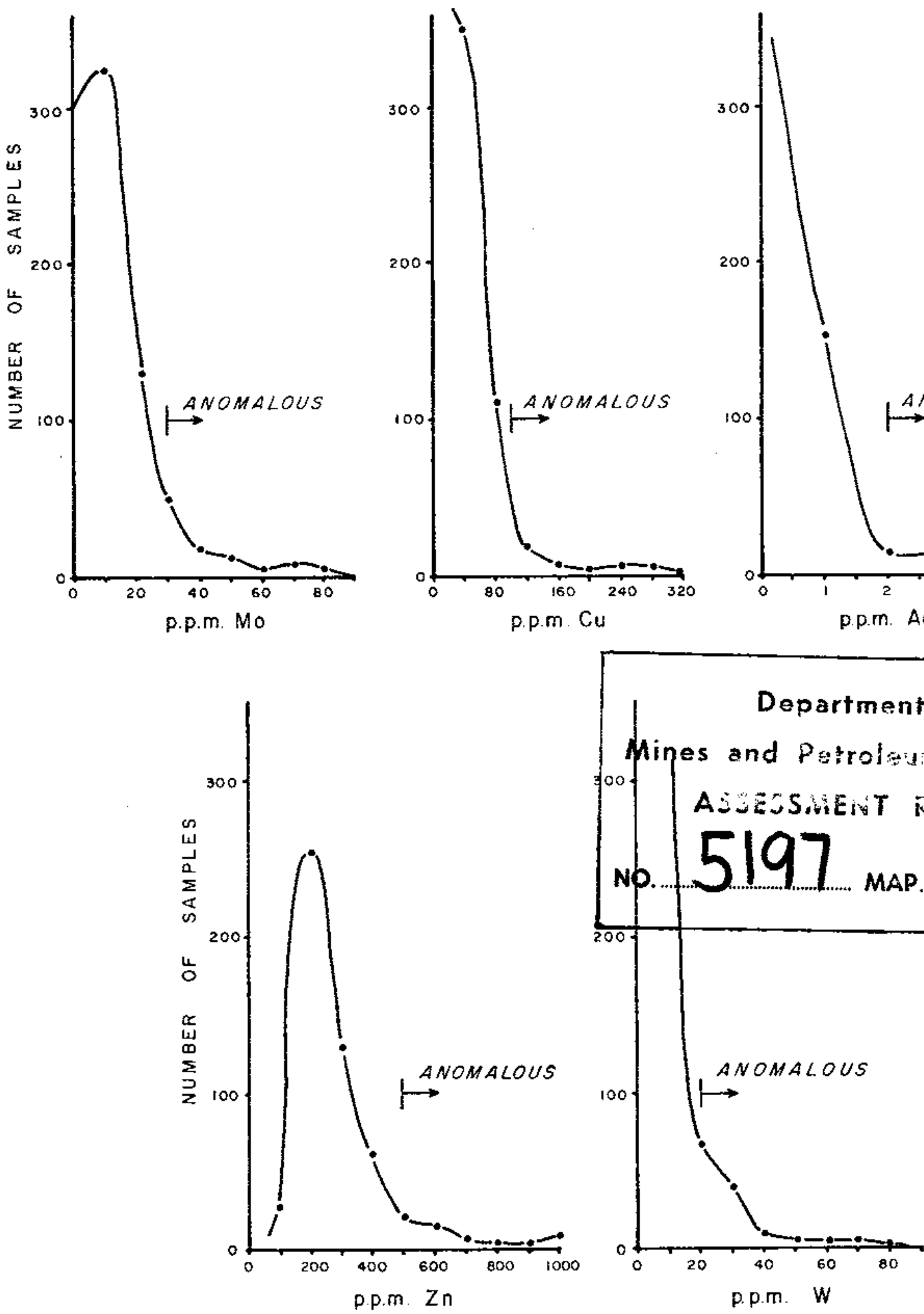
Hill top - level	1
Hill top - undulating	2
Gentle valley slope 0-5°	3
Moderate valley slope 5-10°	4
Steep valley slope 10°	5
Dry valley bottom	6
Damp valley bottom	7
Swampy valley bottom	8

15. REMARKS 41
Refer to supplementary field sheet for remarks on:

Location of Sample	L
Mineralization	M
Environment	
General Remarks	

AMAX EXPLORATION, INC. - GEOCHEM RECCE DATA SHEET

May 1971



DEER PARK PROPERTY

CUMULATIVE FREQUENCY PLOTS
(Mo, Cu, Ag, Zn, W)

H. D. Sellner

H.P

N.T.S. Ref. 82 E 8

FIG. 8

...IDENTIFICATION-LOCATION... I D 01	Z N 09	E T 11	N T 16	T S 22	G U 23	......SEDIMENTS...... O T 25	D D 26	N M 29	S V 30	T C 31	R E 32	F A 33	....SOIL.... S T 34	S H 36	F T 38	L S 40	R K 41	PH 42	...ANALYTICAL DATA... MO 44	CU 47	NI 51	CO 55	MN 59	FE (%) 63	AG 66	ZN 69	PB 73	W 77	R K 80
3DSS0001		66E	70N	P		0	004	F		M	O		PL	BF		2			6	16					1.5	196		2	
3DST0002		67E	70N	P						L	O								8	24					0.5	46		2	
3DSS0003		64E	70N	P		0	005	L		M	O		PL	BF		2			12	32					1.5	232		2	
3DST0004		64E	71N	P						L	Y								110■	14					1.0	30		0	
3DST0005		63E	70N	P						L	Y								6	18					0.5	56		0	
3DSS0006		62E	70N	P		0	006	L		M	O		PL	BF		2			6	24					1.0	304		2	
3DSS0007		60E	70N	P		0	009	U		M	O		PL	BF		2		57	6	46					1.5	860		2	
3DSS0008		58E	70N	P		0	006	L		M	O		PL	BF		2			9	52					3.5□	384		2	
3DST0009		66E	69N	P						L	Y								38□	12					0.5	44		2	
3DSS0010		66E	68N	P		0	003	L		M	O		PL	BF		2			14	28					2.5□	190		5	
3DST0011		66E	66N	P						L	Y								2	8					0.5	104		0	
3DSS0012		66E	66N	P		0	008	U		M	O		PL	BF		2			16	68					1.0	192		2	
3DSS0013		66E	64N	P		0	010	L		M	O		PL	BF		2		56	12	36					1.5	324		2	
3DSS0014		66E	62N	P		0	005	U		M	O		PL	BF		2			16	42					3.0□	266		5	
3DST0015		66E	62N	P						L	Y								50□	32					1.5	510		5	
3DST0016		66E	61N	P						M	G								1	20					0.5	200		2	
3DSS0017		66E	60N	P		0	006	L		M	O		PL	BF		2			6	30					2.0□	142		2	
3DSS0018		66E	58N	P		0	008	L		M	O		PL	BF		2			10	26					3.0□	268		2	
3DSS0019		66E	56N	P		0	010	L		M	O		PL	BF		2		56	7	22					1.5	272		2	
3DST0020		66E	55N	P						M	G								2	32					1.0	94		0	
3DSS0021		66E	54N	P		0	005	U		M	B		PL	BF		2			5	22					0.5	214		0	
3DSS0022		66E	52N	P		6	005	U		M	O		PL	BF		2			6	24					1.0	170		2	
3DSS0023		66E	50N	P		6	008	U		M	O		PL	BF		2			6	40					2.0□	196		5	
3DST0024		67E	50N	P						M	G								1	24					0.5	68		0	
3DSS0025		66E	72N	P		6	005	U		M	O		PL	BF		2		55	9	16					1.0	238		2	
3DSS0026		66E	74N	P		0	006	L		L	O		PL	BF		2			4	24					2.0□	166		0	
3DST0027		66E	75N	P						L	Y								4	20					0.5	36		8	
3DSS0028		66E	76N	P		0	008	L		M	O		PL	BF		2			4	16					1.0	196		2	
3DSS0029		66E	78N	P		0	006	L		M	O		PL	BF		2			6	26					1.0	158		2	
3DSS0030		66E	80N	P		0	006	L		M	O		PL	BF		2		58	7	28					1.0	134		2	
3DST0031		66E	81N	P						M	G								20	300□					3.5□	650		60□	
3DSS0032		66E	82N	P		0	010	L		M	O		PL	BF		2			50□	268■					3.5□	830		10	
3DSS0033		66E	84N	P		0	008	U		M	O		PL	BF		2			8	56					1.0	334		15	
3DSS0034		66E	86N	P			003	U		M	O		PL	BF		2			6	24					1.0	198		40□	
3DST0035		66E	87N	P						L	Y								1	10					0.5	44		20	
3DSS0036		66E	88N	P		0	006	U		M	O		PL	BF		5		56	5	30					1.0	208		0	
3DSS0037		66E	90N	P		0	008	U		M	O		PL	BF		5			2	16					0.5	168		0	
3DST0038		66E	90N	P						L	G					5			8	16					0.5	84		0	
3DSS0039		68E	70N	P		0	006	L		M	O		PL	BF		2			8	50					3.5□	1400■		0	
3DSS0040		70E	70N	P		0	006	L		M	O		PL	BF		2			30□	52					3.0□	256		10	
3DSS0041		110E	70N	P		6	005	U		M	B		PL	BF		2		56	6	28					1.0	130		2	

ID	ZN	ET	NT	TS	GU	DT	DO	NM	SV	TE	RE	FA	ST	SH	FT	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
...IDENTIFICATION-LOCATION...						......SEDIMENTS......							....SOIL....					..................ANALYTICAL DATA..................											
01	09	11	16	22	23	25	26	29	30	31	32	33	34	36	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
30SS0042		108E	70N	P		0	003	L		M	O		PL	3F	2				140■	248□					1.5	102		0	
30SS0043		106E	70N	P		8	004	U		M	O		PL	3F	6				106■	290□					2.0□	258		0	
30SS0044		104E	70N	P		8	008	U		M	O		PL	3F	2				35□	40					1.0	620		2	
30SS0045		102E	70N	P		6	010	U		M	O		PL	3F	4			57	24	18					1.0	220		10	
30SS0046		100E	70N	P		6	008	L		L	O		PL	3F	4				20	30					1.5	120		2	
30SS0047		98E	70N	P		6	009	U		M	O		PL	3F	4				10	20					1.0	180		10	
30SS0048		96E	70N	P		6		L		M	O		PL	3F	2				10	20					1.0	200		0	
30ST0049		95E	70N	P						M	G								10	28					0.5	124		10	
30SS0050		94E	70N	P		6		L		M	O		PL	3F	2			57	6	22					1.5	108		2	
30SS0051		92E	70N	P		6		L		M	O		PL	3F	2				11	32					2.0□	170		2	
30SS0052		90E	70N	P		6		U		M	O		PL	3F	7				28	22					1.0	320		10	
30SS0053		88E	70N	P		6		U		M	O		PL	3F	2				32□	34					0.5	248		25	
30SS0054		86E	70N	P		6		U		M	O		PL	3F	2				10	20					1.0	324		2	
30SS0055		84E	70N	P		6	004	L		M	O		PL	3F	2				14	28					1.5	190		0	
30SS0056		81E	70N	P		6	008	L		M	O		PL	3F	6			55	9	18					1.0	132		2	
30SS0057		80E	70N	P		6	012	U		M	O		PL	3F	7				56□	152□					1.0	990		25	
30SS0058		78E	70N	P		6	005	L		M	O		PL	3F	2				50□	74					1.0	1900		30	
30ST0059		77E	70N	P						M	Y								35□	60					0.5	52		10	
30SS0060		76E	70N	P		6	003	L		M	O		PL	3F	2				65□	44					1.0	136		0	
30ST0061		75E	70N	P						M	O				7				46□	16					0.5	18		20	
30SS0062		74E	70N	P		6	004	L		M	O		PL	3F	2			57	6	220									
30ST0063		73E	70N	P															50□	44					0.5	108		5	
30ST0064		72E	70N	P															16	16					0.5	32		20	
30SS0065		72E	70N	P		6	008	L		M	O		PL	3F	2				20	78					2.5□	124		2	
30SS0066		58E	72N	P		0	006	U		M	O		PL	3F	3				12	42					1.0	156		2	
30SS0067		58E	74N	P		0	005	U		M	O		PL	3F	3				4	24					1.0	164		0	
30SS0068		58E	76N	P		0	007	U		M	O		PL	3F	3			55	10	24					1.0	166		0	
30SS0069		58E	78N	P		0	004	U		M	O		PL	3F	3				8	24					1.0	412		2	
30SS0070		58E	80N	P		6	003	U		M	O		PL	3F	3				6	16					1.0	260		0	
30SS0071		58E	82N	P		6	005	U		M	O		PL	3F	3				6	26					1.0	300		0	
30SS0072		58E	84N	P		7	004	U		M	O		PL	3F	5			58	7	28					1.0	470		2	
30SS0073		58E	86N	P		7	005	U		M	O		PL	3F	5				4	20					0.5	412		0	
30SS0074		58E	88N	P		6	002	L		M	O		PL	3F	5				4	16					1.0	244		0	
30SS0075		58E	90N	P		7	003	U		M	O		PL	3F	5				3	16					0.5	230		0	
30ST0076		58E	90N	P						L	W								12	16					0.5	80		5	
30SS0077		60E	90N	P		7	005	U		M	B		PL	3F	5			57	4	22					0.5	328		5	
30SS0078		60E	88N	P		6	004	U		M	O		PL	3F	5				4	16					0.5	278		2	
30SS0079		60E	86N	P		6	006	U		M	O		PL	3F	4				3	16					0.5	224		0	
30SS0080		60E	84N	P		6	003	L		M	O		PL	3F	4				4	18					1.0	450		2	
30SS0081		60E	82N	P		6	003	U		M	O		PL	3F	3			55	14	20					1.0	408		2	
30SS0082		60E	80N	P		0	004	L		M	O		PL	3F	2				10	48					1.0	730		0	

...IDENTIFICATION-LOCATION...						......SEDIMENTS......							....SOIL....					...ANALYTICAL DATA...											
ID	ZN	ET	NT	TS	GU	DT	DD	NM	SV	TE	RE	FA	ST	SR	FT	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
01	09	11	16	22	23	25	26	29	30	31	32	33	34	35	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
3DSS0125		58E	54N	P		6	003	L		M	0		PL	3F		2			3	28					0.5	160		0	
3DSS0126		58E	52N	P		6	005	U		M	8		PL	3H		2		53	4	22					0.5	196		0	
3DSS0127		58E	50N	P		6	008	L		M	0		PL	3F		2			2	22					1.0	104		0	
3DST0128		58E	50N	P						D	G								1	56					1.0	104		0	
3DSS0129		60E	68N	P		6	004	L		M	0		PL	3F		4			12	56					3.5□	510		0	
3DSS0130		60E	66N	P		6	005	U		M	0		PL	3F		3			14	38					3.0□	950		2	
3DST0131		59E	65N	P															2	10					0.5	60		5	
3DSS0132		60E	64N	P		0	007	L		M	0		PL	3F		4		55	14	114□					4.0■	364		2	
3DSS0133		60E	62N	P		0	005	L		M	0		PL	3F		2			8	34					2.0□	460		0	
3DSS0134		60E	60N	P		0	006	U		M	0		PL	3F		2			6	32					2.0□	136		0	
3DSS0135		60E	58N	P		7	008	U		M	8		PL	3H		2			6	50					1.5	242		0	
3DSS0136		60E	56N	P		6	008	U		M	0		PL	3F		2		53	4	22					1.0	208		0	
3DSS0137		60E	54N	P		6	004	U		L	0		PL	3C		2			2	20					1.0	134		0	
3DSS0138		60E	52N	P		6	007	U		M	8		PL	3H		2			4	32					1.0	440		0	
3DSS0139		60E	50N	P		6	005	L		M	0		PL	3F		2			4	20					1.0	220		0	
3DSS0140		62E	50N	P		6	003	U		M	0		PL	3F		2		54	4	34					1.0	192		0	
3DSS0141		62E	52N	P		6	003	U		M	0		PL	3F		2			6	44					1.0	232		0	
3DSS0142		62E	54N	P		6	005	U		M	0		PL	3F		2			3	20					1.0	180		0	
3DSS0143		62E	56N	P		6	008	U		M	0		PL	3F		2		55	6	32					1.0	240		0	
3DSS0144		62E	58N	P		6	004	U		M	8		PL	3H		2			4	28					1.5	328		0	
3DSS0145		62E	60N	P		0	006	L		M	0		PL	3F		2			4	26	16	12	240	1.9	1.5	144	76	0	
3DST0146		62E	60N	P															1	14					0.5	100		5	
3DSS0147		62E	62N	P		0	003	L		M	0		PL	3F		3			2	20					1.0	96		0	
3DSS0148		62E	64N	P		0	006	L		M	0		PL	3F		3		55	11	64					2.5□	1050		0	
3DSS0149		62E	66N	P		0	004	U		M	0		PL	3F		4			7	20					2.0□	240		0	
3DSS0150		62E	68N	P		6	007	U		M	0		PL	3F		3			4	18					1.5	224		5	
3DSS0151		64E	68N	P		0	002	L		M	0		PL	3F		3			16	126□					2.0□	980		0	
3DSS0152		64E	66N	P		0	003	U		M	0		PL	3F		3		54	13	64					1.5	122		2	
3DSS0153		64E	64N	P		0	004	U		M	0		PL	3F		3			15	66					2.0□	240		5	
3DSS0154		64E	62N	P		0	003	L		M	0		PL	3F		3			10	54					4.5■	260		2	
3DSS0155		64E	60N	P		0	004	L		M	0		PL	3F		3			4	24					1.5	124		0	
3DSS0156		64E	58N	P		0	006	L		M	0		PL	3F		3		55	2	24					1.5	154		0	
3DSS0157		64E	56N	P		0	006	U		M	0		PL	3F		3			6	36					1.5	332		2	
3DSS0158		64E	54N	P		6	008	U		M	9		PL	3H		2			3	20					1.5	140		0	
3DSS0159		64E	52N	P		6	009	U		M	0		PL	3F		2			2	16					0.5	160		0	
3DSS0160		64E	50N	P		6	006	U		M	0		PL	3F				55	4	20					1.0	116		0	
3DSS0161		68E	68N	P		0	007	U		M	0		PL	3F		3			6	16					1.5	182		0	
3DSS0162		68E	66N	P		0	008	U		M	0		PL	3F		3			26	60					3.0□	540		0	
3DSS0163		68E	64N	P		6	009	U		M	0		PL	3F		3			26	80					1.0	540		8	
3DSS0164		68E	62N	P		6	008	U		M	0		PL	3F		3		51	14	56					1.5	296		2	
3DSS0165		68E	60N	P		0	005	L		M	0		PL	3F		3			6	54					2.5□	180		0	

...IDENTIFICATION-LOCATION...						......SEDIMENTS......							....SOIL....					...................ANALYTICAL DATA..................											
ID	ZN	ET	NT	TS	GU	DT	DD	VM	SV	TE	RE	FA	ST	SH	FT	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
01	09	11	16	22	23	25	26	29	30	31	32	33	34	36	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
3DSS0083		60E	78N	P		0	008	L		M	0		PL	3F	6				8	20					0.5	830		0	
3DSS0084		60E	74N	P		0	003	U		M	0		PL	3F	2				20	130□					1.5	700		0	
3DSS0085		60E	74N	P		0	004	U		M	0		PL	3F	2			58	5	24					1.5	216		0	
3DSS0086		60E	72N	P		8	003	U		M	0		PL	3F	2				14	34					1.0	530		2	
3DSS0087		62E	72N	P		0	004	U		H	0		PL	3F	2				8	22					1.0	172		0	
3DSS0088		62E	74N	P		0	003	L		M	0		PL	3F	3				6	20					1.5	156		0	
3DSS0089		62E	76N	P		0	003	L		M	0		PL	3F	3			58	8	24					1.0	570		0	
3DSS0090		62E	80N	P		0	003	U		M	0		PL	3F	2				8	30					0.5	470		2	
3DST0092		62E	79N	P						L	Y								5	8					0.5	24		8	
3DSS0093		72E	68N	P		6	004	U		M	0		PL	3F	3				10	28					1.0	124		5	
3DST0094		73E	63N	P						M	Y								56□	10					0.5	20		20	
3DSS0095		72E	66N	P		6	005	U		M	0		PL	3F	3			55	7	18					1.0	166		2	
3DSS0096		72E	64N	P		0	006	U		M	0		PL	3F	4				62□	62					3.0□	162		20	
3DSS0097		72E	62N	P		0	005	U		M	B		PL	3H	2				32	28					1.0	144		0	
3DSS0098		72E	60N	P		0	006	U		M	0		PL	3F	4			53	18	22					1.0	270		2	
3DSS0099		64E	72N	P		0	007	U		M	0		PL	3F	3				32□	50					1.0	450		10	
3DSS0100		64E	74N	P		6	006	U		M	0		PL	3F	3				20	26					1.0	312		5	
3DSS0101		64E	76N	P		0	003	U		M	0		PL	3F	3				6	26					0.5	236		2	
3DSS0102		64E	78N	P		0	003	U		M	0		PL	3F	3			54	8	60					0.5	630		2	
3DSS0103		64E	80N	P		0	005	U		M	0		PL	3F	3				56□	28					0.5	580		2	
3DSS0104		62E	82N	P		0	004	L		M	0		PL	3F	3				8	52					0.5	272		2	
3DST0105		62E	81N	P						L	Y								7	10					0.5	160		8	
3DSS0106		62E	84N	P		0	006	U		M	0		PL	3F	3				6	16					0.5	300		2	
3DSS0107		62E	86N	P		6	008	U		M	0		PL	3F	4			54	4	16					0.5	288		2	
3DSS0108		62E	88N	P		7	012	U		M	0		PL	3F	5				6	12					0.5	244		10	
3DSS0109		62E	90N	P		7	014	U		M	0		PL	3F	5				8	20					0.5	200		10	
3DST0110		62E	90N	P						L	N								6	14					0.5	34		15	
3DSS0111		64E	82N	P		7	008	U		M	0		PL	3F	4				25	60					0.5	510		10	
3DSS0112		64E	84N	P		8	018	L		M	0		PL	3F	7			57	60□	200□					1.5	1800		15	
3DSS0113		64E	86N	P		7	012	U		M	0		PL	3F	5				6	52					0.5	300		15	
3DST0114		64E	86N	P						M	Y								10	20					0.5	28		20	
3DSS0115		64E	88N	P		7	009	U		M	0		PL	3F	5				6	24					0.5	266		25	
3DSS0116		64E	90N	P		7	008	U		M	B		PL	3H	5				4	24					0.5	316		2	
3DSS0117		58E	68N	P		6	005	U		M	0		PL	3F	4			52	6	24					0.5	340		0	
3DSS0118		58E	66N	P		6	003	U		M	0		PL	3F	4				8	56					3.0□	750		0	
3DSS0119		58E	64N	P		6	004	U		M	0		PL	3F	4				8	32					1.5	368		2	
3DSS0120		58E	62N																7	36					1.0	400		0	
3DSS0121		58E	60N	P		6	010	U		M	0		PL	3F	2			54	9	24					1.0	210		0	
3DSS0122		58E	58N	P		6	003	U		M	0		PL	3F	2				4	38					1.0	356		0	
3DST0123		58E	57N	P						L	N								1	10					0.5	62		0	
3DSS0124		58E	56N	P		6	005	U		M	0		PL	3F	2				2	22					0.5	116		0	

...IDENTIFICATION-LOCATION... ......SEDIMENTS...... ....SOIL.... ....ANALYTICAL DATA..................

I D	Z N	E T	N T	T S	G U	D T	D D	N ?	S V	T E	R E	F A	S T	S H	F T	L S	R K	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	R K
01	09	11	16	22	23	25	26	29	30	31	32	33	34	36	38	40	41	42	44	47	51	55	59	63	65	69	73	77	80
3DSS0166		68E	53N	P		6	008	U		M	0		PL	3F	3				6	30					2.0□	148		0	
3DSS0167		68E	56N	P		6	003	U		M	0		PL	3F	3				4	26					3.0□	160		0	
3DSS0168		68E	54N	P		6	005	U		M	8		PL	3H	2			48	4	24					1.0	224		0	
3DSS0169		68E	52N	P		6	007	U		M	0		PL	3F	2				4	28					1.0	260		0	
3DSS0170		68E	50N	P		6	005	U		M	8		PL	3H	2				6	36					1.0	336		0	
3DST0171		68E	50N	P						L	G								1	20					.5	74		0	
3DSS0172		70E	50N	P		6	004	U		M	0		PL	3F	3				6	28					1.0	280		10	
3DSS0173		70E	52N	P		6	006	U		M	8		PL	3H	2			53	6	30					1.0	192		0	
3DSS0174		70E	54N	P		6	004	U		M	0		PL	3F	2				20	32					2.5□	220		0	
3DSS0175		70E	56N	P		6	004	U		M	0		PL	3F	3				10	60					3.0□	150		0	
3DSS0176		70E	58N	P		6	006	U		M	0		PL	3F	3				14	44					2.0□	276		2	
3DSS0177		70E	60N	P		6	003	U		M	0		PL	3F	3			53	19	188□					1.0	288		5	
3DSS0178		70E	62N	P		0	005	L		M	0		PL	3F	3				10	32					3.0□	130		0	
3DSS0179		70E	64N	P		0	008	U		D	0		PL	3F	3				31	62					2.0□	260		8	
3DSS0180		70E	66N	P		0	006	L		M	0		PL	3F	3				36	60					2.0□	202		2	
3DSS0181		70E	68N	P		0	007	L		D	0		PL	3F	3			48	12	22					1.5	152		2	
3DSS0182		68E	72N	P		8	007	F		D	0		PL	3F	3				25	68					1.5	1300		5	
3DSS0183		68E	74N	P		8	009	F		M	0		PL	3F	3				26	56					2.0□	910		5	
3DSS0184		68E	76N	P		8	015	L		M	0		PL	3F	7				7	168□					1.5	312		0	
3DSS0185		68E	78N	P		0	012	U		M	8		PL	3H	6			51	28	104□					1.0	1040		10	
3DST0186		69E	80N	P															365■	72					1.0	102		10	
3DSS0187		68E	83N	P		0	006	U		M	0		PL	3F	2				32□	108□					1.0	146		8	
3DSS0188		68E	82N	P		0	004	U		M	0		PL	3F	2				20	48					1.0	300		5	
3DSS0189		68E	84N	P		0	004	U		M	0		PL	3F	3				16	52					1.0	408		5	
3DSS0190		68E	86N	P		7	008	U		M	0		PL	3F	5			57	5	42					1.0	332		2	
3DST0191		68E	87N	P															6	14					.5	46		10	
3DSS0192		68E	88N	P		7	006	U		M	8		PL	3H	5				2	20					.5	136		5	
3DSS0193		68E	90N	P		7	003	U		M	0		PL	3F	5				2	20					.5	116		5	
3DSS0194		70E	90N	P		7	005	U		M	0		PL	3F	5				1	14					.5	140		2	
3DSS0195		70E	88N	P		7	004	U		M	8		PL	3H	5			55	4	20					.5	348		0	
3DSS0196		70E	86N	P		7	005	U		M	8		PL	3H	4				4	34					.5	170		8	
3DSS0197		70E	84N	P		0	003	U		M	0		PL	3F	3				6	26					1.0	260		2	
3DSS0198		70E	82N	P		0	009	U		M	0		PL	3F	3				8	24					.5	148		0	
3DSS0199		70E	80N	P		0	003	U		M	0		PL	3F	3			54	46□	64					1.0	180		8	
3DSS0200		70E	78N	P		0	007	L		M	0		PL	3F	6				12	24					1.0	210		0	
3DSS0201		70E	76N	P		0	005	U		M	0		PL	3F	6				6	16					1.0	90		2	
3DSS0202		70E	74N	P		0	006	U		M	0		PL	3F	6			54	6	20					1.0	142		2	
3DSS0203		70E	72N	P		0	003	L		M	0		PL	3F	3				23	112□					2.0□	1940		0	
3DSS0204		72E	72N	P		8	008	U		M	0		PL	3F	7				12	18					1.0	268		0	
3DSS0205		72E	74N	P		0	008	U		M	0		PL	3F	6				48□	36					1.0	220		0	

...IDENTIFICATION-LOCATION... ....SEDIMENTS....... ....SOIL.... ....ANALYTICAL DATA.....................

I D 01	Z N 09	E T 11	N T 16	T S 22	G U 23	D T 25	D D 26	N M 29	S V 30	T E 31	R E 32	F A 33	S T 34	S H 36	F T 38	L S 40	R K 41	PH 42	MO 44	CU 47	NI 51	CO 55	MN 59	FE (%) 63	AG 66	ZN 69	PB 73	W 77	R K 80
30SS0206		72E	76N	P		0	006	U		M	0		PL	BF		6		49	10	30					1.5	248		0	
30SS0207		72E	78N	P		0	005	L		M	0		PL	BF		6			20	24					1.0	130		0	
30SS0208		72E	80N	P		0	007	L		M	0		PL	BF		3			8	22					1.0	136		0	
30SS0209		72E	82N	P		0	003	U		M	0		PL	BF		4			8	28					1.0	460		0	
30SS0210		72E	84N	P		0	005	U		M	0		PL	BF		4		47	23	24					.5	184		0	
30SS0211		72E	86N	P		7	006	U		M	B		PL	BH		4			48□	28					.5	256		0	
30SS0212		72E	88N	P		6	006	U		M	0		PL	BF		2			6	26					.5	160		2	
30SS0213		72E	90N	P		6	008	U		M	0		PL	BF		4			4	20					1.0	184		15	
30SS0214		74E	90N	P		5	005	U		M	0		PL	BF		2		51	6	14					1.0	232		10	
30SS0215		74E	88N	P		0	004	U		M	B		PL	BH		2			6	16					.5	96		600■	
30ST0216		74E	88N	P															2	12					.5	42		70□	
30SS0217		74E	86N	P		6	003	U		M	B		PL	BH		4			70□	36					.5	172		35	
30SS0218		74E	84N	P		6	008	U		M	0		PL	BF		4			14	30					1.0	172		15	
30SS0219		74E	82N	P		6	004	U		M	B		PL	BH		4		50	30□	18					.5	128		10	
30SS0220		74E	80N	P		0	008	L		M	0		PL	BF		6			32□	26					1.0	308		2	
30SS0221		74E	78N	P		0	010	L		L	0		PL	BF		6			14	46					3.0□	328		0	
30ST0222		74E	77N	P						L	G								4	14					.5	96		0	
30SS0223		74E	76N	P		0	010	L		M	0		PL	BF		6			16	38					2.0□	120		2	
30SS0224		74E	74N	P		0	005	U		M	0		PL	BF		2		50	14	16					1.0	158		2	
30SS0225		74E	72N	P		0	002	U		D	0		PL	BF		4			96□	34					1.0	302		50□	
30SS0226		72E	58N	P		7	006	U		M	0		PL	BF		5			20	20					2.0□	128		0	
30SS0227		72E	56N	P		0	004	L		D	0		PL	BF		5			4	16					1.5	132		0	
30SS0228		72E	54N	P		0	005	L		M	0		PL	BF		2		47	6	24					1.0	162		2	
30SS0229		[illegible]	52N	P		0	005	U		M	0		PL	BF		2			8	20					1.0	220		0	
30SS0230		72E	50N	P		7	005	U		M	0		PL	BF		5			2	24					1.0	470		0	
30ST0231		72E	51N	P															4	22					.5	54		2	
30SS0232		74E	50N	P		7	005	U		M	0		PL	BF		5			13	40					1.5	740		0	
30SS0233		74E	52N	P		0	005	U		M	0		PL	BF		2		51	10	16					1.5	220		0	
30SS0234		74E	54N	P		0	008	U		M	0		PL	BF		2			8	36					1.0	264		2	
30SS0235		74E	56N	P		0	005	U		M	0		PL	BF		4			14	28					1.0	140		0	
30SS0236		74E	58N	P		0	004	U		D	0		PL	BF		5			16	32					1.0	194		2	
30SS0237		74E	60N	P		0	008	U		M	0		PL	BF		4		49	30□	68					1.5	440		10	
30SS0238		74E	62N	P		0	007	U		D	0		PL	BF		4			24	32					1.0	430		5	
30SS0239		74E	64N	P		0	009	U		M	0		PL	BF		4			30□	32					.5	256		8	
30SS0240		74E	66N	P		0	012	U		M	0		PL	BF		3			12	40					2.0□	580		35	
30SS0241		74E	68N	P		0	009	U		M	0		PL	BF		3		51	106■	136□					1.5	900		0	
30SS0242		76E	67N	P		0	020	L		D	B		GH	AH		8			44□	320■					2.0□	900		5	
30SS0243		76E	66N	P		0	008	U		D	0		PL	BF		4			30□	56					3.0□	260		20	
30SS0244		76E	64N	P		0	010	U		M	0		PL	BF		4		50	26	48					1.0	430		25	
30SS0245		76E	62N	P		0	008	U		M	0		PL	BF		4			54□	44					1.0	640		8	
30SS0246		76E	60N	P		0	009	U		M	0		PL	BF		5			14	24					1.0	264		3	

...IDENTIFICATION-LOCATION... ......SEDIMENTS...... ....SOIL.... ....ANALYTICAL DATA..................

ID	ZN	ET	NT	TS	GU	DT	DD	NM	SV	TE	RE	FA	ST	SH	FT	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
01	09	11	16	22	23	25	26	29	30	31	32	33	34	35	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
3DSS0247		76E	58N	P		0	006	U		M	0		PL	BF		5			14	28					1.5	272		3	
3DSS0248		76E	56N	P		0	007	U		M	B		PL	BF		5		46	8	20					1.0	264		2	
3DSS0249		76E	54N	P		0	009	U		M	0		PL	BF		3			10	28					1.0	212		2	
3DSS0250		76E	52N	P		0	007	U		M	0		PL	BF		2			4	20					.5	200		20	
3DSS0251		76E	50N	P		0	006	U		M	0		PL	BF		4			5	26					.5	338		10	
3DST0252		76E	51N	P						M	G								1	12					1.0	144		2	
3DSS0253		78E	68N	P		0	014	U		M	0		PL	BF		7		52	42□	172□					2.5□	1520		25	
3DSS0254		78E	66N	P		0	010	U		D	0		PL	BF		3			44□	208□					1.5	1220		30	
3DSS0255		78E	64N	P		0	009	U		M	0		PL	BF		4			8	18					1.5	160		5	
3DST0256		77E	63N	P						M	G								26	40					.5	260		0	
3DSS0257		78E	62N	P		0	007	U		D	0		PL	BF		3			16	28					1.0	292		20	
3DSS0258		78E	60N	P		0	009	L		M	0		PL	BF		4		58	12	40					1.5	270		15	
3DSS0259		78E	58N	P		0	003	L		M	0		PL	BF		5			16	36					1.5	302		15	
3DSS0260		78E	56N	P		0	003	U		M	B		PL	BH		5			30□	58					1.5	680		8	
3DSS0261		78E	54N	P		0	004	U		M	0		PL	BF		5			10	22					1.5	294		8	
3DSS0262		78E	52N	P		0	007	U		M	0		PL	BF		2		53	8	36					1.0	266		5	
3DSS0263		78E	50N	P		6	004	U		M	0		PL	BF		2			8	30					1.0	236		2	
3DSS0264		80E	50N	P		7	005	U		M	B		PL	BH		5			6	20					1.0	540		15	
3DSS0265		80E	52N	P		0	007	U		M	0		PL	BF		2			22	40					1.0	310		10	
3DSS0266		80E	54N	P		0	005	U		M	0		PL	BF		2		56	6	26					1.5	232		5	
3DSS0267		80E	55N	P		0	004	U		M	0		PL	BF		4			7	28					1.0	388		10	
3DSS0268		80E	58N	P		0	007	U		M	0		PL	BF		4			8	56					1.0	396		15	
3DSS0269		80E	60N	P		0	009	U		M	0		PL	BF		3			10	32					1.5	234		5	
3DSS0270		80E	62N	P		6	010	U		M	0		PL	BF		3		55	20	56					2.5□	354		20	
3DSS0271		80E	64N	P		6	012	U		D	0		PL	BF		7			19	28					1.5	540		20	
3DSS0272		80E	66N	P		0	007	U		M	0		PL	BF		2			18	40					1.0	116		35	
3DSS0273		80E	68N	P		0	004	U		M	0		PL	BF		3			22	32					1.0	224		25	
3DSS0274		76E	72N	P		0	008	L		D	0		PL	BF		6		51	14	24					1.5	68		10	
3DSS0275		76E	74N	P		0	007	L		D	0		PL	BF		6			8	36					1.5	164		20	
3DSS0276		76E	76N	P		0	007	U		M	0		PL	BF		6			6	16					1.0	102		0	
3DSS0277		76E	78N	P		0	014	L		M	0		PL	BF		7			36□	32					1.5	174		10	
3DSS0278		76E	80N	P		0	010	U		M	0		PL	BF		6		51	36□	30					1.0	124		5	
3DSS0279		76E	82N	P		0	006	U		M	0		PL	BF		3			21	20					.5	172		25	
3DSS0280		76E	84N	P		7	005	U		M	0		PL	BF		5			14	28					1.0	540		70□	
3DSS0281		76E	86N	P		7	005	U		M	B		PL	BH		5			20	44					1.5	790		25	
3DSS0282		76E	88N	P		7	004	U		L	0		PL	BC		5		54	8	64					1.5	380		10	
3DSS0283		76E	90N	P		7	006	U		M	B		PL	BH		5			4	22					1.5	326		5	
3DSS0284		78E	90N	P		7	005	U		M	0		PL	BF		2			19	60					1.0	280		2	
3DSS0285		78E	88N	P		7	003	U		M	B		PL	BH		5		53	12	32					1.0	1000		0	
3DSS0286		78E	86N	P		7	005	U		M	0		PL	BF		5			6	18					1.0	990		2	
3DSS0287		78E	84N	P		7	009	U		M	0		PL	BF		5			8	32					1.0	490		35	

...IDENTIFICATION-LOCATION... ......SEDIMENTS...... ....SOIL.... ....ANALYTICAL DATA.....................

ID 01	ZN 09	ET 11	NT 16	TS 22	GU 23	DT 25	DD 26	NM 29	SV 30	TE 31	RF 32	FA 33	ST 34	SH 36	FTS 38 40	LR SK 41	PH 42	MO 44	CU 47	NI 51	CO 55	MN 59	FE (%) 63	AG 66	ZN 69	PB 73	W 77	FK 80
3DSS0288		78E	82N	P		8	009	L		M	0		PL	BF	3			16	36					1.0	300		10	
3DSS0289		78E	80N	P		6	008	L		M	0		PL	BF	6		52	14	24					1.0	158		10	
3DSS0290		78E	78N	P		8	009	L		M	0		PL	BF	6			68□	68					1.5	380		2	
3DSS0291		78E	76N	P		8	006	L		M	0		PL	BF	6			10	24					1.0	120		10	
3DSS0292		78E	72N	P		0	010	U		M	0		PL	BF	6			10	22					1.0	212		10	
3DSS0293		80E	72N	P		0	014	U		M	3		PL	BH	7		46	42□	20					.5	96		30	
3DSS0294		80E	75N	P		8	016	L		M	0		PL	BF	7			10	18					1.0	94		10	
3DSS0295		80E	75N	P		0	008	U		M	0		PL	BF	6			8	16					.5	108		10	
3DSS0296		80E	78N	P		0	006	U		D	0		PL	BF	6			10	30					1.5	140		20	
3DSS0297		80E	80N	P		8	015	F		M	3		PL	BH	7		53	30□	52					2.0□	910		25	
3DSS0298		80E	82N	P		8	007	U		M	0		PL	BF	3			10	28					1.5	550		5	
3DSS0299		80E	84N	P		7	004	U		M	0		PL	BF	4			9	20					1.5	470		5	
3DSS0300		80E	86N	P		7	002	U		M	3		TF	BH	5			6	68					2.0□	1080		20	
3DSS0301		80E	88N	P		7	004	U		M	3		TF	BH	5		56	7	72					2.0□	1300		25	
3DST0302		80E	82N	P						L	R							1	12					.5	60		20	
3DSS0303		80E	90N	P		7	007	U		M	3		PL	BH	4			4	16					.5	240		2	
3DSS0304		82E	90N	P		7	009	U		M	3		PL	BH	5			6	20					.5	320		2	
3DSS0305		82E	88N	P		7	012	U		M	0		PL	BF	5			8	96					1.0	590		5	
3DSS0306		82E	86N	P		7	009	U		M	0		PL	BF	4		55	16	34					1.5	880		10	
3DSS0307		82E	34N	P		6	005	U		M	0		PL	BF	4			6	16					.5	248		2	
3DSS0308		82E	32N	P		6	011	U		L	0		PL	BF	4			8	24					.5	232		10	
3DSS0309		82E	80N	P		6	008	U		M	0		PL	BF	3			8	16					1.0	224		5	
3DSS0310		82E	78N	P		8	015	L		L	0		PL	BF	7		51	8	16					.5	108		0	
3DSS0311		82E	76N	P		8	012	L		M	0		PL	BF	6			26	18					.5	192		10	
3DSS0312		82E	74N	P		0	006	U		D	0		PL	BF	6			12	20					1.0	252		10	
3DSS0313		82E	72N	P		0	018	U		D	3		GS	AH	7			6	12					.5	54		0	
3DSS0314		82E	68N	P		0	005	U		D	0		PL	BF	3		51	38□	24					1.0	276		15	
3DSS0315		82E	65N	P		0	004	L		D	0		PL	BF	3			6	24					1.0	124		5	
3DSS0316		82E	64N	P		0	010	L		M	0		PL	BF	3			8	20					1.5	92		10	
3DSS0317		82E	62N	P		0	008	U		D	0		PL	BF	3			26	52					1.0	240		10	
3DSS0318		82E	60N	P		0	006	U		D	0		PL	BF	4		50	19	40					1.0	288		15	
3DST0319		82E	59N	P						L	G							4	12					.5	200		0	
3DSS0320		82E	58N	P		0	006	U		M	0		PL	BF	5			20	52					1.0	282		0	
3DSS0321		82E	56N	P		0	003	U		M	0		PL	BF	5			8	28					2.0□	368		0	
3DSS0322		82E	54N	P		0	005	U		M	0		PL	BF	2			8	30					2.0□	240		0	
3DSS0323		82E	52N	P		7	009	U		L	0		PL	BF	5		47	3	8					.5	70		0	
3DSS0324		82E	50N	P		7	005	U		M	0		PL	BF	5			12	32					1.5	690		0	
3DSS0325		84E	50N	P		0	007	U		M	0		PL	BF	5			6	36					2.0□	1020		0	
3DSS0326		84E	52N	P		7	005	U		M	0		PL	BF	5		53	4	32					2.0□	340		0	
3DSS0327		84E	54N	P		7	007	U		M	3		PL	BH	5			3	18					1.5	510		5	
3DSS0328		84E	56N	P		0	006	L		M	0		PL	BF	2			10	26					1.5	314		15	

...IDENTIFICATION-LOCATION...						......SEDIMENTS......							....SOIL....					................ANALYTICAL DATA................											
I D 01	Z N 09	E T 11	N T 16	T S 22	G U 23	D T 25	D O 26	N M 29	S V 30	T E 31	R E 32	F A 33	S T 34	S H 36	F T 38	L S 40	R K 41	PH 42	MO 44	CU 47	NI 51	CO 55	MN 59	FE (%) 63	AG 66	ZN 69	PB 73	W 77	R K 80
30SS0329		84E	58N	P		0	007	U		D	0		PL	BF		3			17	32					1.5	340		10	
30SS0330		84E	60N	P		0	009	U		D	0		PL	BF		3		51	17	92					2.5□	580		0	
30SS0331		84E	62N	P		0	007	U		M	0		PL	BF		3			6	24					1.5	192		0	
30SS0332		84E	64N	P		0	009	U		M	0		PL	BF		3			14	192□					3.0□	920		15	
30SS0333		84E	66N	P		8	006	F		M	0		PL	BF		6			45□	88					1.0	388		60□	
30SS0334		84E	68N	P		8	008	U		M	0		PL	BF		6		53	25	44					1.0	980		80□	
30SS0335		84E	72N	P		6	007	U		M	0		PL	BF		2			7	28					1.0	86		10	
30SS0336		84E	74N	P		6	009	U		M	0		PL	BF		6			12	20					1.5	186		0	
30SS0337		84E	76N	P		8	016	C		M	0		PL	BF		6			24	30					1.0	266		10	
30SS0338		84E	78N	P		8	010	F		M	0		PL	BF		6		45	28	26					1.0	184		20	
30SS0339		84E	80N	P		6	008	U		M	0		PL	BF		3			8	20					1.0	200		0	
30SS0340		84E	82N	P		6	009	L		M	0		PL	BF		4			8	20					1.5	234		0	
30SS0341		84E	84N	P		6	012	U		M	0		PL	BF		4			5	24					1.0	264		0	
30SS0342		84E	85N	P		7	019	U		M	0		PL	BF		5		50	5	38					1.0	356		20	
30SS0343		84E	88N	P		7	007	U		M	B		PL	BH		4			3	34					1.0	208		2	
30SS0344		84E	90N	P		7	014	U		M	B		PL	SH		5			7	32					1.0	186		0	
30SS0345		86E	90N	P		6	010	U		M	0		PL	BF		4			4	16					1.0	202		0	
30ST0346		86E	91N	P						L	G								2	12					.5	52		0	
30SS0347		86E	88N	P		7	012	U		M	0		PL	BF		4		51	7	24					1.0	308		0	
30SS0348		86E	86N	P		7	015	U		M	B		TF	BC		4			7	18					.5	316		0	
30SS0349		86E	84N	P		6	008	U		M	0		PL	BF		4			6	20					.5	188		5	
30SS0350		86E	82N	P		6	008	U		M	0		PL	BF		6			20	80					1.5	346		2	
30SS0351		86E	80N	P		6	012	U		M	0		PL	BF		6		50	6	12					.5	148		2	
30SS0352		86E	78N	P		6	014	U		D	0		PL	BF		6			8	16					1.0	202		15	
30SS0353		86E	76N	P		6	010	U		M	0		PL	BF		3			6	20					1.5	366		15	
30SS0354		86E	74N	P		6	007	U		D	0		PL	BF		3			8	20					1.5	114		10	
30SS0355		86E	72N	P		6	009	L		M	0		PL	BF		3		50	7	16					1.5	90		0	
30SS0356		86E	68N	P		6	006	U		D	0		PL	BF		3			14	24					1.0	238		30	
30SS0357		86E	66N	P		6	008	L		D	0		PL	BF		3			5	18					1.0	164		20	
30ST0358		86E	66N	P															8	20					.5	62		15	
30SS0359		86E	64N	P		6	009	U		M	0		PL	BF		3			10	22					1.0	100		25	
30SS0360		86E	62N	P		0	003	U		M	0		PL	BF		2		51	5	50					1.0	126		20	
30SS0361		86E	60N	P		0	005	U		D	0		PL	BF		4			9	18					1.5	280		10	
30SS0362		86E	58N	P		0	003	U		D	0		PL	BF		2			7	32					1.5	232		10	
30SS0363		86E	56N	P		0	011	U		M	0		PL	BF		2			6	32					1.0	200		10	
30SS0364		86E	54N	P		0	006	U		M	0		PL	BF		4		51	6	32					1.5	640		5	
30SS0365		86E	52N	P		7	006	U		M	0		PL	BF		5			10	46					2.0□	330		20	
30SS0366		86E	50N	P		0	008	U		M	0		PL	BF		5			10	28					2.0□	282		10	
30SS0367		88E	50N	P		7	006	L		M	0		PL	BF		5		56	2	14					1.5	204		0	
30SS0368		88E	52N	P		0	007	U		M	0		PL	BF		4			4	22					1.5	310		0	
30SS0369		88E	54N	P		0	007	L		M	0		PL	BF		2			4	28					1.5	180		0	

...IDENTIFICATION-LOCATION...						......SEDIMENTS......							....SOIL....					..................ANALYTICAL DATA..................										
ID	ZN	ET	NT	TS	GU	DT	DO	NM	SV	TE	RE	FA	ST	SH	FI	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
01	09	11	15	22	23	25	26	29	30	31	32	33	34	36	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
30SS0370		86E	56N	P		0	004	U		M	0		PL	BF	2				6	24					2.0□	126		0	
30SS0371		86E	58N	P		0	008	L		M	0		PL	BF	4			56	4	20					1.5	310		0	
30SS0372		88E	60N	P		6	008	L		M	0		PL	BF	2				13	28					1.5	386		0	
30SS0373		88E	62N	P		6	009	L		M	0		PL	BF	3				6	28					1.0	136		0	
30SS0374		88E	64N	P		8	007	G		D	0		PL	BF	3				34□	62					1.0	480		20	
30SS0375		88E	66N	P		6	009	L		M	0		PL	BF	3			55	5	28					1.0	108		0	
30SS0376		88E	68N	P		6	006	L		M	0		PL	BF	3				5	24					1.5	92		0	
30SS0377		88E	72N	P		6	007	U		M	0		PL	BF	3				6	20					1.0	194		0	
30SS0378		88E	74N	P		6	006	U		M	0		PL	BF	4				8	16					1.0	126		0	
30SS0379		86E	76N	P		6	008	U		M	0		PL	BF	6			53	48□	28					1.0	510		5	
30SS0380		88E	78N	P		6	009	U		M	0		PL	BF	3				8	30					.5	152		0	
30SS0381		88E	80N	P		6	009	U		M	0		PL	BF	3				7	24					1.0	128		0	
30SS0382		88E	82N	P		6	006	U		M	0		PL	BF	3				5	20					.5	166		0	
30SS0383		88E	84N	P		6	010	U		M	0		PL	BF	3			53	6	18					.5	170		0	
30SS0384		86E	86N	P		6	012	U		M	0		PL	BF	4				10	28					1.0	222		0	
30SS0385		88E	88N	P		6	010	U		M	0		PL	BF	4				8	24					.5	282		0	
30SS0386		86E	90N	P		7	014	U		M	8		PL	BH	5				6	26					1.0	396		0	
30ST0387		88E	91N	P						L	G								1	8					.5	48		2	
30SS0388		90E	90N	P		6	009	U		M	0		PL	BF	5			52	6	20					.5	250		0	
30SS0389		90E	88N	P		6	008	U		M	0		PL	BF	3				12	28					1.5	208		0	
30SS0390		90E	86N	P		6	010	U		M	0		PL	BF	3				5	20					1.0	116		0	
30SS0391		90E	84N	P		6	006	U		M	0		PL	BF	3				4	16					.5	128		0	
30SS0392		90E	82N	P		6	009	U		M	0		PL	BF	3			51	3	20					1.0	152		0	
30SS0393		90E	80N	P		6	007	U		M	0		PL	BF	3				5	20					.5	112		0	
30SS0394		90E	78N	P		6	005	U		M	0		PL	BF	3				13	30					1.0	274		0	
30SS0395		90E	76N	P		8	020	L		M	8		GS	BH	7				16	60					2.0□	104		0	
30SS0396		90E	74N	P		8	024	L		D	8		GS	BH	7			54	28	200□					1.0	172		0	
30SS0397		90E	72N	P		6	016	U		D	0		PL	BF	3				12	16					1.0	136		5	
30SS0398		90E	68N	P		6	005	L		D	0		PL	BF	3				40□	108□					2.5□	720		5	
30SS0399		90E	66N	P		0	008	U		M	0		PL	BF	3				76□	22					1.0	384		5	
30SS0400		90E	64N	P		6	009	L		M	8		PL	BH	3			53	44□	1720■					5.0■	580		100■	
30SS0401		90E	62N	P		0	004	U		M	0		PL	BF	3				9	24					1.5	244		5	
30SS0402		90E	60N	P		0	002	U		M	0		PL	BF	3				8	18					1.0	140		0	
30SS0403		90E	58N	P		0	002	L		M	0		PL	BF	3				3	16					1.0	144		0	
30SS0404		90E	56N	P		0	004	U		M	0		PL	BF	2			53	4	14					2.0□	208		0	
30SS0405		90E	54N	P		0	007	U		M	0		PL	BF	2				4	16					1.0	326		0	
30SS0406		90E	52N	P		6	008	U		M	0		PL	BF	2				5	40					2.0□	358		0	
30SS0407		90E	50N	P		6	007	U		M	0		PL	BF	4			53	4	36					1.5	328		0	
30SS0408		92E	72N	P		6	012	L		D	0		PL	BF	6				17	20					1.0	86		0	
30SS0409		92E	76N	P		6	010	U		M	3		PL	BH	3				14	24					1.0	168		0	
30SS0410		92E	78N	P		6	006	U		M	0		PL	BF	3				5	22					1.0	124		0	

APPENDIX II

CLAIM SCHEDULE

Claim Status - April, 1974

Claim Number	Record Number	Anniversary Date	Rental Date
Deer 11-16	4481-4486	August 6,1978	August 6,1975
Deer 17-20	4487-4490	August 6,1976	August 6,1975
Deer 27	4515	August 10,1978	August 10,1975
Deer 28	4516	August 10,1977	August 10,1975
Deer 29	4491	August 6,1978	August 6,1975
Deer 31	4492	August 6,1978	August 6,1975
Deer 33	4493	August 6,1978	August 6,1975
Deer 34	4494	August 6,1977	August 6,1975
Deer 35	4495	August 6,1978	August 6,1975
Deer 36	4496	August 6,1978	August 6,1975
Deer 37-40	4497-4500	August 6,1976	August 6,1975
Deer FR.	4467	August 6,1977	August 6,1975
Park 6	4458	August 6,1977	August 6,1975
Park 7	4459	August 6,1978	August 6,1975
Park 8	4460	August 6,1976	August 6,1975
Park 9	4461	August 6,1978	August 6,1975
Park 10-12	4462-4464	August 6,1976	August 6,1975
Park 14-24	4468-4478	August 6,1976	August 6,1975
Park FR.	4465	August 6,1977	August 6,1975
Park 5 FR.	4466	August 6,1977	August 6,1975
Camel 1-2	5148-5149	March 14,1976	March 14,1976
Camel 3-42	5197-5236	Sept. 18,1975	Sept. 18,1975

Claim Number	Group Name	Group Date December 17, 1973
Deer 11-20, 31-33, 35-40 Park 7, 9, 11	GREEN	
Deer 27, 29 Camel 11-26, 29-34, 37-42	BLUE	
Deer 28, FR. Camel 3-10, 27-28, 35-36	RED	
Deer 34 Park 6, 8, 10, 12, 14-24, Park FR., 5 FR Camel 1-2	YELLOW	

APPENDIX III - STATEMENT OF COSTS

Period of Work - September 17 - October 8, 1973

Summary of Work - Geological, Geochemical, Geophysical Survey - 21 line miles

Personnel

H.W. Sellmer - Geologist - 601-535 Thurlow Street, Vancouver, B.C.	
20 days @ $71.00/day	$1,420.00
G.M. DePaoli - Geophysicist - 5305 East Georgia St., Burnaby, B.C.	
7 days @ $54.00/day	378.00
Soil Sample Analysis	
566 soils 5 elements @ $2.70/sample	
43 rock chip 5 elements @ $3.35/sample	1,672.25
Magnetometer Rental	
7 days @ $15.00/day	105.00
Room & Board	
27 man days @ $15.00/day	405.00
Vehicle	
27 days @ $20.00/day	540.00
Report Preparation and Drafting	500.00
Total	$5,020.25

H.W. Sellmer

APPENDIX IV

STATEMENT OF QUALIFICATIONS

H. W. Sellmer - STATEMENT OF QUALIFICATIONS

1964	B.Sc.	Geology	(Honours)	University of B.C.
1966	M.Sc.	Geology		University of B.C.

Amax Exploration, Inc. - May 1, 1966

Staff Geologist - Planned, organized and supervised small property and prospect evaluation programs utilizing geochemical, geophysical and geological techniques. Assessed results and proposed new programs.

1970 - District Geologist -

Supervised all exploration work in a district. Interpreted the results of all exploration techniques in terms of major program objectives. Recommended mineral properties for option and favourable geological areas for prospecting programs. Handled preliminary negotiations for mineral properties, reviewed and prepared exploration contracts. Planned, organized and supervised and reported on all exploration programs in a district.

1974 - Regional Manager-Western Canada-

Overall responsibility for the exploration effort of the Company in Western Canada.

STATEMENT OF QUALIFICATIONS

NAME: G.M. DePaoli

ADDRESS: 5305 East Georgia Street, Burnaby 2, B.C.

EDUCATION:

Combined Honours Geophysics and Geology B.Sc. U.B.C. 1969.

EXPERIENCE:

Junior Geophysical experience Granby Mining, Cominco Ltd.

1970 - 1974 Regional Geophysicist Vancouver, Amax Exploration, Inc.

Member of G.S.C., C.I.M.M., S.E.G., A.G.U., and B.C. Geophysical Society.

Experience in British Columbia, Yukon, Ontario, Quebec and Saskatchewan.

AMAX EXPLORATION, INC.
A SUBSIDIARY OF AMERICAN METAL CLIMAX, INC.
PHONE (AREA CODE 604) 683-0474
#601-535 THURLOW STREET
VANCOUVER 5, BRITISH COLUMBIA

REFERRED TO	DATE	INITIAL
D.M.		
ADM (M)		
ADM (P)		
C.P.R.		
ACPR		
G.C.		
ACCTS.		
GEOL.		
INSP.		
M. REV.		
EC. & P.		
FILE NO.		

November 5, 1974

File No. 166-Trail Creek

11989

Mr. E.J. Bowles,
Chief Gold Commissioner,
Mineral Resources Branch
Dept. of Mines & Petroleum Resources
Victoria, B.C.

Dear Mr. Bowles:

Re: DEER, CAMEL, PARK Mineral Claims
Geological-Geochemical-Geophysical Report #5197

Enclosed please find two copies of the key for geochemical data as requested in your letter of November 1, 1974, for the above mentioned report.

I trust you will find this key satisfactory for approval of the report.

Yours very truly,

AMAX EXPLORATION, INC.

M.G. Laub

M.G. Laub

NOV 7 '74 AM

DEPT. OF MINES
AND PETROLEUM RESOURCES

MGL/b
Enclosures
cc: Mining Recorder
Rossland, B.C.

. ...IDENTIFICATION-LOCATION... ......SEDIMENTS...... ....SOIL.... ....ANALYTICAL DATA.................

ID	ZN	ET	NT	TS	GU	OT	DD	NM	SV	TE	RF	FA	ST	SH	FT	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
01	09	11	16	22	23	25	26	29	30	31	32	33	34	36	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
3DSS0411		92E	80N	P		6	010	U		M	0		PL	BF	3			53	4	28					1.0	140		0	
3DSS0412		92E	82N	P		6	008	U		M	0		PL	BF	3				3	28					1.0	100		0	
3DSS0413		92E	84N	P		6	006	U		M	0		PL	BF	4				2	12					1.0	136		0	
3DSS0414		92E	86N	P		6	004	U		M	0		PL	BF	4				6	16					1.0	154		0	
3DSS0415		92E	88N	P		6	004	U		M	0		PL	BF	4			52	5	16					1.0	220		0	
3DSS0416		92E	90N	P		6	005	U		M	0		PL	BF	5				4	20					1.5	296		0	
3DSS0417		94E	90N	P		6	004	U		M	0		PL	BF	3				4	20					1.0	164		0	
3DSS0418		94E	88N	P		6	006	U		M	0		PL	BF	3				10	26					1.0	138		0	
3DSS0419		94E	86N	P		6	007	U		M	0		PL	BF	3			54	12	32					1.5	294		0	
3DSS0420		94E	84N	P		6	006	U		M	0		PL	BF	3				12	60					1.5	252		0	
3DSS0421		94E	82N	P		8	009	U		M	B		PL	BH	6				16	48					2.5□	210		0	
3DSS0422		94E	80N	P		6	010	U		M	0		PL	BF	3				7	40					1.0	126		0	
3DSS0423		94E	78N	P		6	005	U		M	0		PL	BF	3			52	4	16					1.0	108		0	
3DSS0424		94E	76N	P		6	008	U		M	0		PL	BF	3				5	20					1.0	104		0	
3DSS0425		94E	74N	P		6	006	U		M	0		PL	BF	4				6	22					1.0	130		0	
3DSS0426		94E	72N	P		6	004	U		D	0		PL	BF	3				14	20					1.5	182		0	
3DSS0427		92E	68N	P		6	003	U		D	0		PL	BF	3			55	12	28					1.5	322		5	
3DSS0428		92E	66N	P		6	005	U		D	0		PL	BF	3				10	28					1.5	202		0	
3DST0429		92E	65N	P						L	G								250■	70					.5	66		10	
3DST0430		92E	64N	P						H	G								6	60					.5	76		35	
3DSS0431		92E	64N	P		0	012	L		0	0		PL	BF	4				8	42					1.5	240		5	
3DSS0432		92E	62N	P		6	005	U		M	0		PL	BF	2				10	36					1.5	254		5	
3DSS0433		92E	60N	P		6	007	U		M	0		PL	BF	4			52	6	32					1.5	206		0	
3DSS0434		92E	58N	P		6	003	U		M	0		PL	BF	2				8	32					2.0□	170		0	
3DSS0435		92E	56N	P		6	007	U		M	0		PL	BF	2				6	24					1.5	140		2	
3DSS0436		92E	54N	P		6	004	U		M	0		PL	BF	2				5	46					1.0	108		2	
3DSS0437		92E	52N	P		6	005	U		D	0		PL	BF	3			54	4	36					2.0□	400		0	
3DSS0438		92E	50N	P		6	007	U		M	0		PL	BF	4				3	30					1.5	340		0	
3DSS0439		94E	50N	P		6	004	U		M	0		PL	BF	3				2	24					1.5	332		0	
3DSS0440		94E	52N	P		6	004	U		D	0		PL	BF	3				4	34					1.0	228		5	
3DSS0441		94E	54N	P		6	006	U		M	0		PL	BF	2			53	4	36					1.0	152		5	
3DSS0442		94E	56N	P		6	006	U		M	0		PL	BF	2				6	43					1.0	152		2	
3DSS0443		94E	58N	P		6	004	U		M	0		PL	BF	3				8	46					2.0□	200		2	
3DSS0444		94E	60N	P		6	006	U		M	0		PL	BF	3				20	122□					2.0□	700		5	
3DSS0445		94E	62N	P		6	004	U		M	0		PL	BF	3			54	25	92					1.0	660		5	
3DSS0446		94E	64N	P		6	003	U		D	0		PL	BF	3				21	44					1.5	196		20	
3DSS0447		94E	66N	P		6	003	U		D	0		PL	BF	3				16	40					2.0□	216		0	
3DSS0448		94E	68N	P		6	005	U		M	0		PL	BF	2			48	9	240□					.5	96		0	
3DSS0449		96E	72N	P		6	016	U		M	B		PL	BH	7				26	68					1.5	248		0	
3DSS0450		96E	74N	P		6	008	U		M	0		PL	BF	3				8	38					1.0	144		0	
3DSS0451		96E	76N	P		6	009	U		M	0		PL	BF	3				6	18					.5	114		0	

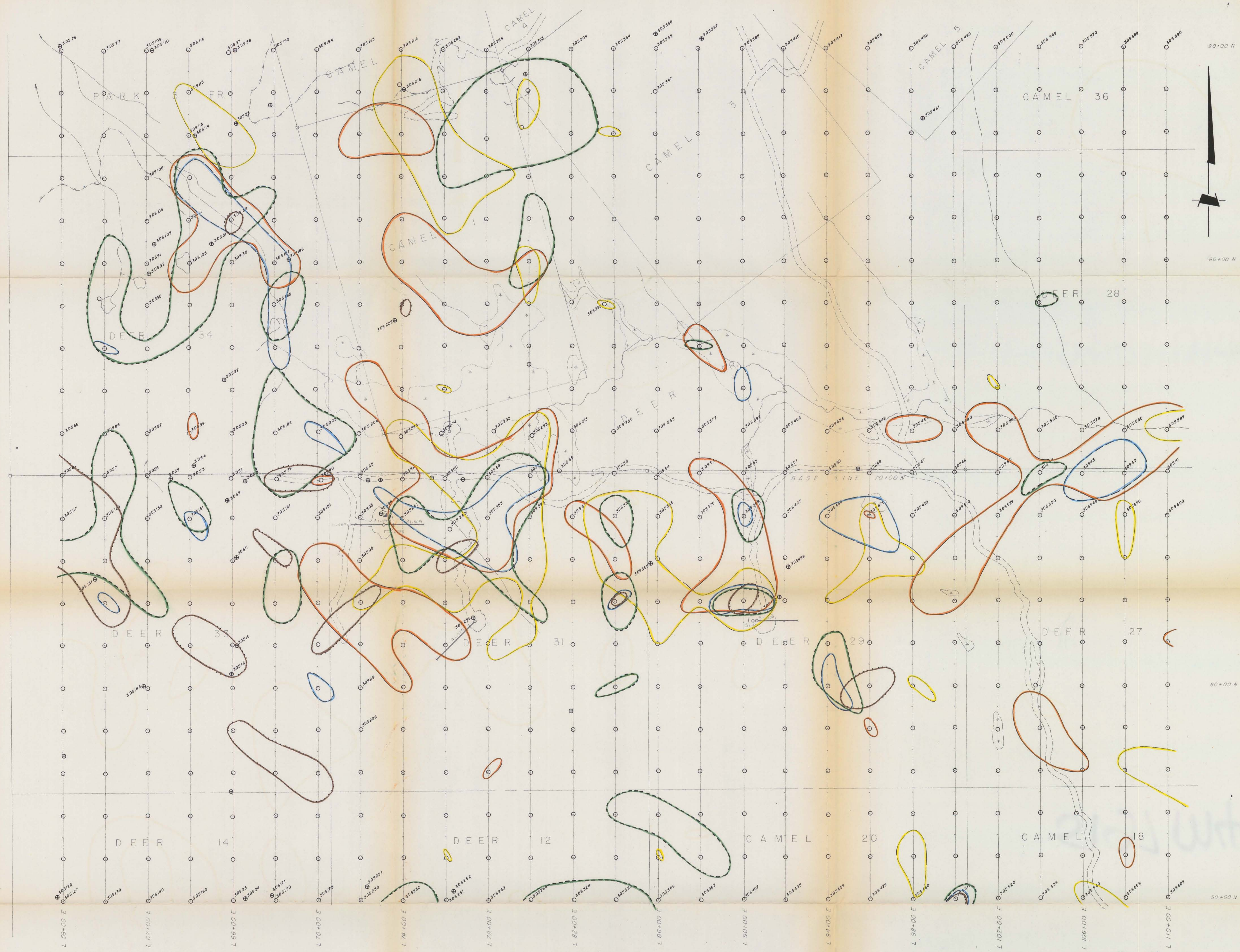
...IDENTIFICATION-LOCATION...						......SEDIMENTS......							....SOIL....						..........ANALYTICAL DATA..........										
ID	ZN	ET	NT	TS	GU	DT	DD	NV	SV	TF	RF	FA	ST	SH	FT	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
01	09	11	16	22	23	25	26	29	30	31	32	33	34	36	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
30SS0452		96E	73N	P		6	007	U		M	0		PL	BF	3			53	4	18					.5	124		0	
30SS0453		96E	80N	P		6	009	U		M	0		PL	BF	3				9	40					1.0	116		0	
30SS0454		96E	82N	P		6	009	U		M	B		PL	BH	4				10	34					1.0	208		0	
30SS0455		96E	84N	P		6	008	U		M	0		PL	BF	3				10	20					.5	160		0	
30SS0456		96E	85N	P		6	005	U		M	0		PL	BF	3			53	5	16					.5	120		0	
30SS0457		96E	83N	P		6	005	U		M	0		PL	BF	3				5	20					1.0	132		0	
30SS0458		96E	90N	P		6	004	U		M	0		PL	BF	3				6	16					1.0	172		0	
30SS0459		98E	90N	P		6	008	U		M	0		PL	BF	3				4	24					1.0	108		0	
30SS0460		98E	88N	P		6	009	U		M	0		PL	BF	3			54	12	30					1.5	224		0	
30ST0461		99E	87N	P						L	R								6	26					.5	160		5	
30SS0462		98E	86N	P		6	005	U		M	0		PL	BF	3				4	20					1.0	126		0	
30SS0463		98E	84N	P		6	009	U		M	0		PL	BF	3				10	18					1.0	220		0	
30SS0464		98E	82N	P		6	007	U		M	0		PL	BF	3				7	16					.5	112		8	
30SS0465		98E	80N	P		6	010	U		M	B		PL	BH	3			54	19	28					1.0	228		0	
30SS0466		98E	78N	P		6	007	U		M	0		PL	BF	2				4	16					1.0	116		0	
30SS0467		96E	76N	P		6	014	U		M	0		PL	BF	3				6	18					1.0	216		0	
30SS0468		98E	74N	P		6	010	U		M	B		PL	BF	6				10	16					1.0	116		0	
30SS0469		98E	72N	P		6	012	U		D	0		PL	BF	4			54	42□	26					1.0	368		5	
30SS0470		96E	68N	P		6	016	L		M	B		GS	BH	7				38□	380■					1.5	376		25	
30SS0471		96E	66N	P		6	004	U		D	0		PL	BF	4				18	72					1.0	126		20	
30SS0472		96E	64N	P		6	003	U		D	0		PL	BF	4				20	52					1.0	170		10	
30SS0473		96E	62N	P		6	002	U		D	0		PL	BF	2			55	14	48					1.0	122		5	
30SS0474		96E	60N	P		6	004	L		D	0		PL	BF	1				14	52					4.5■	202		5	
30SS0475		96E	58N	P		6	005	L		D	0		PL	BF	1				32□	68					2.5□	300		10	
30SS0476		96E	56N	P		6	009	U		M	0		PL	BF	4				12	64					1.0	156		25	
30SS0477		96E	54N	P		6	008	L		M	0		PL	BF	2			56	14	44					2.5□	174		2	
30SS0478		96E	52N	P		6	004	U		M	0		PL	BF	[illegible]				7	32					1.0	114		10	
30SS0479		96E	50N	P		6	005	U		M	0		PL	BF	4				6	32					1.0	176		8	
30SS0480		96E	50N	P		6	006	U		M	B		PL	BF	4				8	32					1.0	194		20	
30SS0481		98E	52N	P		6	005	U		M	0		PL	BF	2			53	8	32					1.0	120		25	
30SS0482		98E	54N	P		6	003	U		D	0		PL	BF	2				10	48					1.5	140		10	
30SS0483		98E	56N	P		6	005	U		M	0		PL	BF	2				8	30					1.0	180		20	
30SS0484		98E	58N	P		6	003	U		M	0		PL	BF	3				10	34					1.5	156		5	
30SS0485		98E	60N	P		6	003	U		M	0		PL	BF	2			49	10	60					1.0	136		20	
30SS0486		98E	62N	P		6	004	U		D	0		PL	BF	3				6	36					1.0	100		.2	
30SS0487		98E	64N	P		6	006	U		M	B		PL	BF	3				30□	96					1.0	180		10	
30SS0488		98E	66N	P		6	008	U		M	0		PL	BF	3			48	25	76					1.0	150		25	
30SS0489		98E	68N	P		6	003	U		M	0		PL	BF	2				8	22					1.5	108		0	
30SS0490		100E	72N	P		6	008	U		M	0		PL	BF	3				24	36					1.0	160		0	
30SS0491		100E	74N	P		6	007	U		M	0		PL	BF	6				3	20					1.0	96		0	

...IDENTIFICATION-LOCATION...						......SEDIMENTS......							....SOIL....						.................ANALYTICAL DATA................										
ID	ZN	ET	NT	TS	GU	DT	DD	NM	SV	TE	RE	FA	ST	SH	FT	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
01	09	11	16	22	23	25	26	29	30	31	32	33	34	36	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
3DSS0573		106E	84N	P		6	005	U		M	0		PL	3F		3			1	12					1.0	96		0	
3DSS0574		106E	82N	P		6	007	U		M	0		PL	3F		3		52	2	16					.5	124		0	
3DSS0575		106E	80N	P		6	006	U		M	0		PL	3F		3			4	18					1.0	114		0	
3DSS0576		106E	78N	P		6	005	U		L	0		PL	3C		4			6	22					.5	172		0	
3DSS0577		106E	76N	P		6	004	U		M	0		PL	3F		4			2	20					1.0	104		0	
3DSS0578		106E	74N	P		6	005	U		M	0		PL	3F		3		53	8	20					1.0	272		0	
3DSS0579		106E	72N	P		6	006	U		D	0		PL	3F		4			11	20					1.5	122		0	
3DSS0580		108E	72N	P		6	009	U		M	0		PL	3F		6			76□	80					1.0	276		5	
3DSS0581		108E	74N	P		6	008	U		M	0		PL	3F		6			6	46					1.0	122		0	
3DSS0582		108E	76N	P		6	004	U		M	0		PL	3F		4		54	4	16					1.0	130		0	
3DSS0583		108E	78N	P		6	003	U		M	B		PL	3C		3			4	14					1.0	124		0	
3DSS0584		108E	80N	P		6	007	L		M	0		PL	3C		3			3	20					1.5	130		0	
3DSS0585		108E	82N	P		6	005	U		M	0		PL	3F		3			4	18					1.0	128		0	
3DSS0586		108E	84N	P		6	008	U		M	0		PL	3F		3		54	2	16					1.0	126		0	
3DSS0587		108E	86N	P		6	004	U		M	0		PL	3F		3			4	16					1.0	116		0	
3DSS0588		108E	88N	P		6	005	U		M	0		PL	3F		3			6	16					1.0	184		0	
3DSS0589		108E	90N	P		6	006	U		M	0		PL	3F		3			4	14					1.0	124		0	
3DSS0590		110E	90N	P		6	005	U		M	0		PL	3F		2		52	3	18					1.0	112		0	
3DSS0591		110E	88N	P		6	007	U		M	0		PL	3F		3			3	16					1.0	148		0	
3DSS0592		110E	86N	P		6	006	L		L	0		PL	3G		4			2	10					.5	88		0	
3DSS0593		110E	84N	P		6	009	U		M	0		PL	3F		3			2	16					1.0	112		0	
3DSS0594		110E	82N	P		6	007	U		M	0		PL	3F		3		53	3	16					1.0	110		2	
3DSS0595		110E	80N	P		6	004	U		M	0		PL	3F		3			4	16					1.0	142		5	
3DSS0596		110E	78N	P		6	006	U		M	0		PL	3F		3			4	18					1.0	144		0	
3DSS0597		110E	76N	P		6	007	U		M	0		PL	3F		3			3	18					1.0	104		0	
3DSS0598		110E	74N	P		6	007	U		M	0		PL	3F		4		53	4	20					1.0	108		0	
3DSS0599		110E	72N	P		6	012	U		D	0		PL	3F		6			80□	48					1.5	300		45□	
3DSS0600		110E	68N	P		6	007	U		D	0		PL	3F		3			14	30					1.5	64		0	
3DSS0601		110E	66N	P		6	006	U		D	0		PL	3F		4			8	36					1.0	104		2	
3DSS0602		110E	64N	P		6	006	U		M	0		PL	3F		3		57	8	32					1.0	92		0	
3DSS0603		110E	62N	P		6	008	U		M	0		PL	3F		3			30□	40					1.0	160		0	
3DSS0604		110E	60N	P		6	008	U		M	0		PL	3F		3			8	20					.5	112		0	
3DSS0605		110E	58N	P		6	006	U		M	0		PL	3F		2		57	6	26					1.0	140		3	
3DSS0606		110E	56N	P		6	005	U		D	0		PL	3F		2			6	26					.5	156		30	
3DSS0607		110E	54N	P		6	006	U		M	0		PL	3F		3			8	32					.5	168		15	
3DSS0608		110E	52N	P		6	004	U		M	0		PL	3F		3			6	20					1.0	172		0	
3DSS0609		110E	50N	P		6	005	U	U	M	0	0	PL	3F	F	3	3	54	6	30	0				1.0	188		2	

...IDENTIFICATION-LOCATION... ......SEDIMENTS...... ....SOIL.... ....ANALYTICAL DATA....................

ID	ZN	ET	NT	TS	GU	DT	DD	NM	SV	TE	RE	FA	ST	SH	FI	LS	RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RK
01	09	11	16	22	23	25	26	29	30	31	32	33	34	36	38	40	41	42	44	47	51	55	59	63	66	69	73	77	80
30SS0532		104E	64N	P		6	006	L		M	0		PL	BF	3				8	24					1.0	96		0	
30SS0533		104E	62N	P		6	007	U		M	0		PL	BF	3				16	24					1.0	110		2	
30SS0534		104E	60N	P		6	006	U		M	0		PL	BF	2				20	56					1.5	148		10	
30SS0535		104E	58N	P		6	004	U		D	0		PL	BF	2			49	60□	52					1.0	178		8	
30SS0536		104E	56N	P		6	007	U		M	0		PL	BF	2				28	38					1.0	210		8	
30SS0537		104E	54N	P		6	004	U		M	0		PL	BF	2				14	26					1.0	106		0	
30SS0538		104E	52N	P		6	006	U		M	0		PL	BF	3				6	20					1.0	180		0	
30SS0539		104E	50N	P		6	003	U		M	0		PL	BF	2			53	6	24					1.5	270		2	
30SS0540		106E	50N	P		6	005	U		M	B		PL	BC	4				8	24					1.0	416		25	
30SS0541		106E	52N	P		6	009	U		M	0		PL	BF	4				4	16					1.0	204		0	
30SS0542		106E	54N	P		6	005	L		D	0		PL	BF	3				12	24					1.0	180		0	
30SS0543		106E	56N	P		6	004	U		M	0		PL	BF	2			52	32□	44					1.0	252		0	
30SS0544		106E	58N	P		6	004	L		D	0		PL	BF	2				8	24					1.0	158		0	
30SS0545		106E	60N	P		6	006	U		M	0		PL	BF	3				12	44					1.0	146		5	
30SS0546		106E	62N	P		6	005	U		M	0		PL	BF	3				6	24					1.0	112		0	
30SS0547		106E	64N	P		6	003	U		M	0		PL	BF	3			51	10	30					1.0	122		0	
30SS0548		106E	66N	P		6	007	U		M	0		PL	BF	6				8	26					1.5	92		0	
30SS0549		106E	68N	P		6	004	U		M	0		PL	BF	3				20	60					1.5	180		15	
30SS0550		108E	68N	P		6	003	U		M	0		PL	BF	3				10	30					1.0	80		20	
30SS0551		108E	66N	P		6	003	U		M	0		PL	BF	3			50	16	56					1.0	152		20	
30SS0552		108E	64N	P		6	004	U		M	0		PL	BF	3				10	24					1.0	134		0	
30SS0553		108E	62N	P		6	006	U		M	0		PL	BF	2				8	32					1.0	140		0	
30SS0554		108E	60N	P		6	006	U		D	0		PL	BF	3				21	44					1.0	180		15	
30SS0555		108E	58N	P		6	004	U		M	0		PL	BF	2			52	12	54					1.0	108		10	
30SS0556		108E	56N	P		6	008	L		M	B		PL	BH	2				15	40					.5	124		25	
30SS0557		108E	54N	P		6	004	U		M	0		PL	BF	4				10	30					1.0	170		0	
30SS0558		108E	52N	P		6	007	U		M	B		PL	BH	3				46□	71					1.0	460		0	
30SS0559		108E	50N	P		6	006	U		M	0		PL	BF	4			48	11	24					.5	180		10	
30SS0560		104E	72N	P		6	006	U		M	0		PL	BF	4				4	14					1.0	60		0	
30SS0561		104E	74N	P		6	007	U		M	0		PL	BF	1				3	18					1.0	112		0	
30SS0562		104E	76N	P		6	014	U		M	0		PL	BF	6				3	18					.5	78		0	
30SS0563		104E	78N	P		6	009	U		M	0		PL	BF	6			51	12	36					2.0□	640		0	
30SS0564		104E	80N	P		6	004	U		M	0		PL	BF	3				4	20					.5	112		0	
30SS0565		104E	82N	P		6	008	U		M	0		PL	BF	3				6	24					1.0	162		0	
30SS0566		104E	84N	P		6	004	U		M	0		PL	BF	3			53	6	22					1.5	180		0	
30SS0567		104E	86N	P		6	006	U		M	0		PL	BF	3				2	18					1.0	110		0	
30SS0568		104E	88N	P		6	007	U		M	0		PL	BF	4				2	18					1.0	144		0	
30SS0569		104E	90N	P		6	006	U		M	0		PL	BF	3				2	16					1.5	190		0	
30SS0570		106E	90N	P		6	003	U		M	0		PL	BF	3			53	2	16					1.0	106		0	
30SS0571		106E	88N	P		6	007	U		M	0		PL	BF	4				2	16					.5	194		0	
30SS0572		106E	86N	P		6	008	U		M	0		PL	BF	3				1	14					.5	120		0	

...IDENTIFICATION-LOCATION...						......SEDIMENTS......							....SOIL....			................ANALYTICAL DATA................											
ID	ZN	ET	NT	TS	GU	DT	DD	VH	SV	TE	HE	FA	ST	SH	FT LS RK	PH	MO	CU	NI	CO	MN	FE (%)	AG	ZN	PB	W	RN
01	09	11	15	22	23	25	26	29	30	31	32	33	34	36	38 40 41	42	44	47	51	55	59	63	66	69	73	77	80
3DSS0492	100E	76N	P		6	008	U		M	0		PL	BF	3	53	4	12					1.0	72		0	
3DSS0493	100E	73N	P		6	007	U		M	0		PL	BF	3		5	16					1.0	110		0	
3DSS0494	100E	80N	P		6	006	U		M	0		PL	BF	3		6	14					1.0	110		0	
3DSS0495	100E	82N	P		6	009	U		M	0		PL	BF	3		5	20					1.0	88		0	
3DSS0496	100E	84N	P		6	005	U		M	0		PL	BF	3	51	8	16					1.0	146		0	
3DSS0497	100E	86N	P		6	004	U		M	3		PL	BH	2		4	18					1.5	188		0	
3DSS0498	100E	88N	P		6	006	U		M	0		PL	BF	4		4	18					1.0	162		0	
3DSS0499	100E	90N	P		6	005	U		M	0		PL	BF	4		3	20					1.0	186		0	
3DSS0500	102E	90N	P		6	007	U		M	3		PL	BH	3	51	4	20					1.0	192		0	
3DSS0501	102E	88N	P		6	005	U		M	0		PL	BF	4		4	20					1.0	138		0	
3DSS0502	102E	86N	P		6	007	U		M	0		PL	BF	4		4	20					1.0	128		2	
3DSS0503	102E	84N	P		6	007	U		M	0		PL	BF	4		4	16					1.0	128		0	
3DSS0504	102E	82N	P		6	009	U		M	0		PL	BF	4	50	4	12					.5	120		0	
3DSS0505	102E	80N	P		6	010	U		M	0		PL	BF	1		4	16					1.0	108		0	
3DSS0506	102E	78N	P		6	009	U		M	0		PL	BF	1		2	16					.5	72		0	
3DSS0507	102E	76N	P		6	007	U		M	0		PL	BF	3		3	18					1.0	68		0	
3DSS0508	102E	74N	P		8	009	G		M	0		PL	BF	2	48	8	28					1.0	204		20	
3DSS0509	102E	72N	P		6	008	L		M	0		PL	BF	3		106■	60					1.0	164		0	
3DSS0510	100E	68N	P		6	005	U		M	0		PL	BF	2		26	84					1.5	148		5	
3DSS0511	100E	66N	P		6	006	U		D	0		PL	BF	2		67□	88					1.5	144		0	
3DSS0512	100E	64N	P		6	007	U		D	0		PL	BF	3	49	32□	48					1.5	172		10	
3DSS0513	100E	62N	P		6	009	U		D	0		PL	BF	3		14	22					1.0	186		5	
3DSS0514	100E	60N	P		6	006	U		D	0		PL	BF	2		8	44					1.0	140		5	
3DSS0515	100E	58N	P		6	005	U		L	0		PL	BC	2		28	82					.5	304		15	
3DSS0516	100E	56N	P		6	005	U		M	0		PL	BF	2	53	4	20					1.0	132		2	
3DSS0517	100E	54N	P		6	005	U		M	0		PL	BF	2		9	18					1.0	178		5	
3DSS0518	100E	52N	P		6	004	U		D	0		PL	BF	2		8	28					1.5	226		2	
3DSS0519	100E	50N	P		6	003	U		D	0		PL	BF	3		20	120□					3.0□	630		10	
3DSS0520	102E	50N	P		6	005	U		D	0		PL	BF	4	51	6	23					1.0	174		0	
3DSS0521	102E	52N	P		6	004	U		D	0		PL	BF	2		8	36					1.0	140		5	
3DSS0522	102E	54N	P		6	004	U		D	0		PL	BF	2		8	30					1.0	144		2	
3DSS0523	102E	56N	P		6	003	U		D	0		PL	BF	6		14	48					1.5	226		8	
3DSS0524	102E	58N	P		8	016	L		S	0		GS	BF	7	51	12	26					1.0	88		0	
3DSS0525	102E	60N	P		6	004	U		D	0		PL	BF	2		14	32					1.5	186		0	
3DSS0526	102E	62N	P		6	006	U		D	0		PL	BF	3		14	36					1.0	118		0	
3DSS0527	102E	64N	P		6	006	L		D	0		PL	BF	3	53	22	40					1.5	160		0	
3DSS0528	102E	66N	P		6	007	U		M	0		PL	BF	4		26	44					1.5	206		0	
3DSS0529	102E	68N	P		6	007	U		D	0		PL	BF	2		76□	92					1.0	460		2	
3DSS0530	104E	68N	P		6	005	U		M	0		PL	BF	4		6	22					2.0□	176		0	
3DSS0531	104E	66N	P		6	003	U		M	0		PL	BF	3	47	12	22					1.0	136		0	



L E G E N D

- ○ 305 146 Soil sample site, sample number.
- ⊕ 305 252 Rock chip sample site, sample number.
- Limit of samples with >30 p.p.m. Mo.
- Limit of samples with >100 p.p.m. Cu.
- Limit of samples with >3 p.p.m. Ag.
- Limit of samples with >500 p.p.m. Zn.
- Limit of samples with >20 p.p.m. W.
- Shaft.
- Diamond drill hole (West Coast Mining and Exploration, 1971).
- Road.
- Stream.
- Swamp, swamp boundary.
- Claim post, claim location line.
- Claim boundary.

5197 M4

H. W. Sellmer

AMAX EXPLORATION INC.

DEER PARK PROPERTY

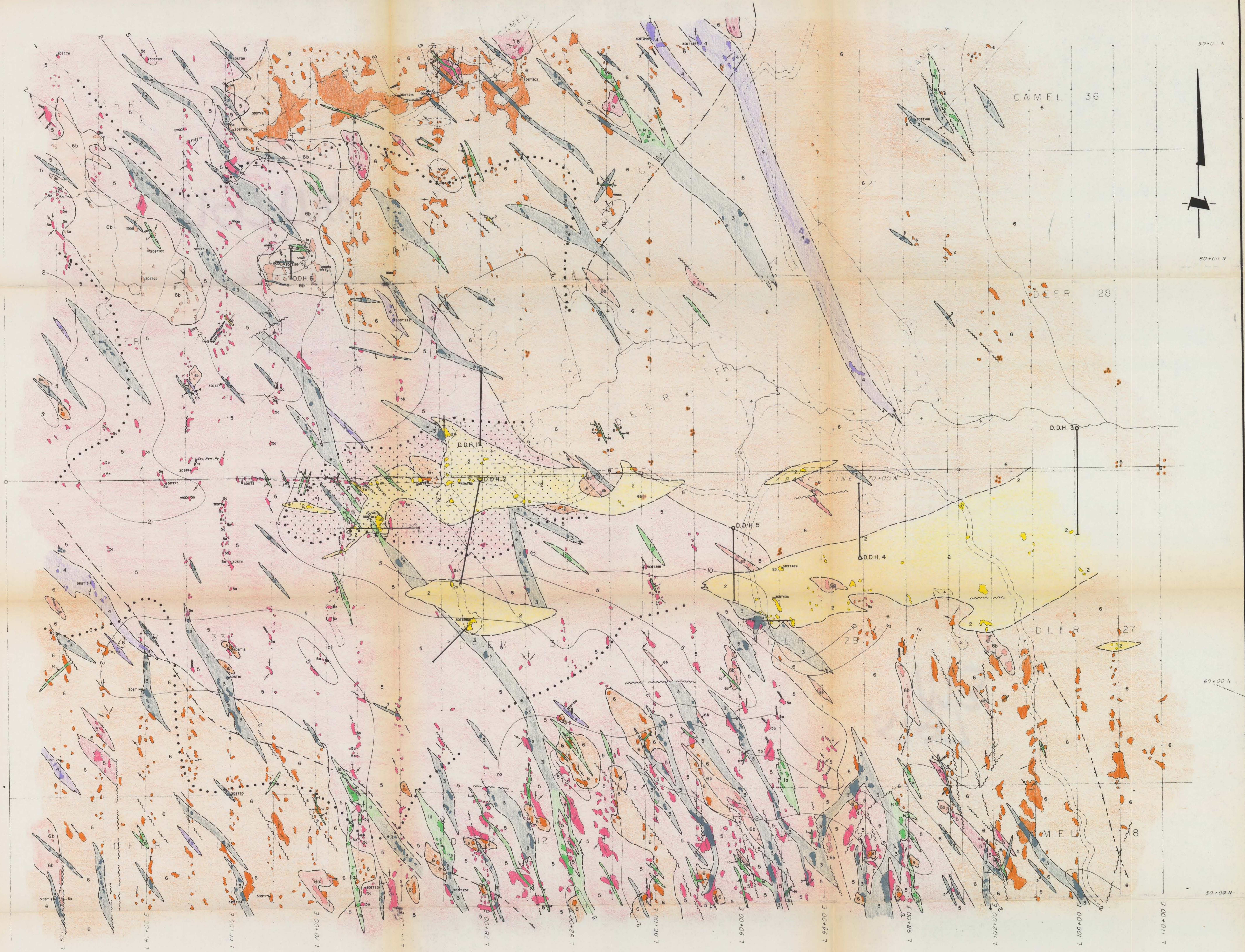
TRAIL CREEK MINING DIVISION — BRITISH COLUMBIA

GEOCHEMICAL ANOMALY MAP

SCALE 200 0 200 FEET
1:2,400

DATE REVISED	DATE PRINTED	Drawn by: H.C.P.	FIG. 4
		Date	
		N.T.S. File 82 E 8	

To accompany: "1973 GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT" by: H.W. Sellmer and G.M. DePaoli.



L E G E N D

1	Andesite. 1a Andesite with feldspar phenocrysts.
2	Breccia. 2a Magnetite rich breccia.
3	Pink and grey syenite porphyry.
4	Feldspar biotite porphyry.
5	Aphanitic feldspar porphyry. 5a Feldspar quartz porphyry.
6	Coarse grained biotite hornblende monzonite.
	6a Fine to medium grained monzonite to quartz monzonite. 6b Medium to fine grained quartz monzonite.

S Y M B O L S

- Shaft.
- Diamond drill hole (West Coast Mining and Exploration, 1971).
- Road.
- Stream.
- Swamp, swamp boundary.
- Claim post, claim location line.
- Claim boundary.
- Outcrop, suboutcrop and/or boulder.
- Geological contact. (defined, assumed)
- Fault or linear.
- Fracture, joint.
- Vein
- Glacial striae.
- 3 DST 429 Hand specimen, number.
- D.D.H. 4 Proposed diamond drill hole.
- Limit of observed pyrite, area of >1/2% observed pyrite.
- Limit of magnetite in fractures and veins.
- Vein/ft contour of observed quartz and quartz magnetite veins.

MINERAL OCCURRENCE

MoS_2	Molybdenite.
Py	Pyrite.
Cpy	Chalcopyrite.
Hem	Hematite.
Fl	Fluorite.

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M3

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TRAIL CREEK MINING DIVISION — BRITISH COLUMBIA

GEOLOGICAL MAP

SCALE 200 0 200 FEET
1 : 2,400

DATE REVISED	DATE PRINTED	Drawn by: H.C.P. Date N.T.S. File 82 E 8	FIG. 3

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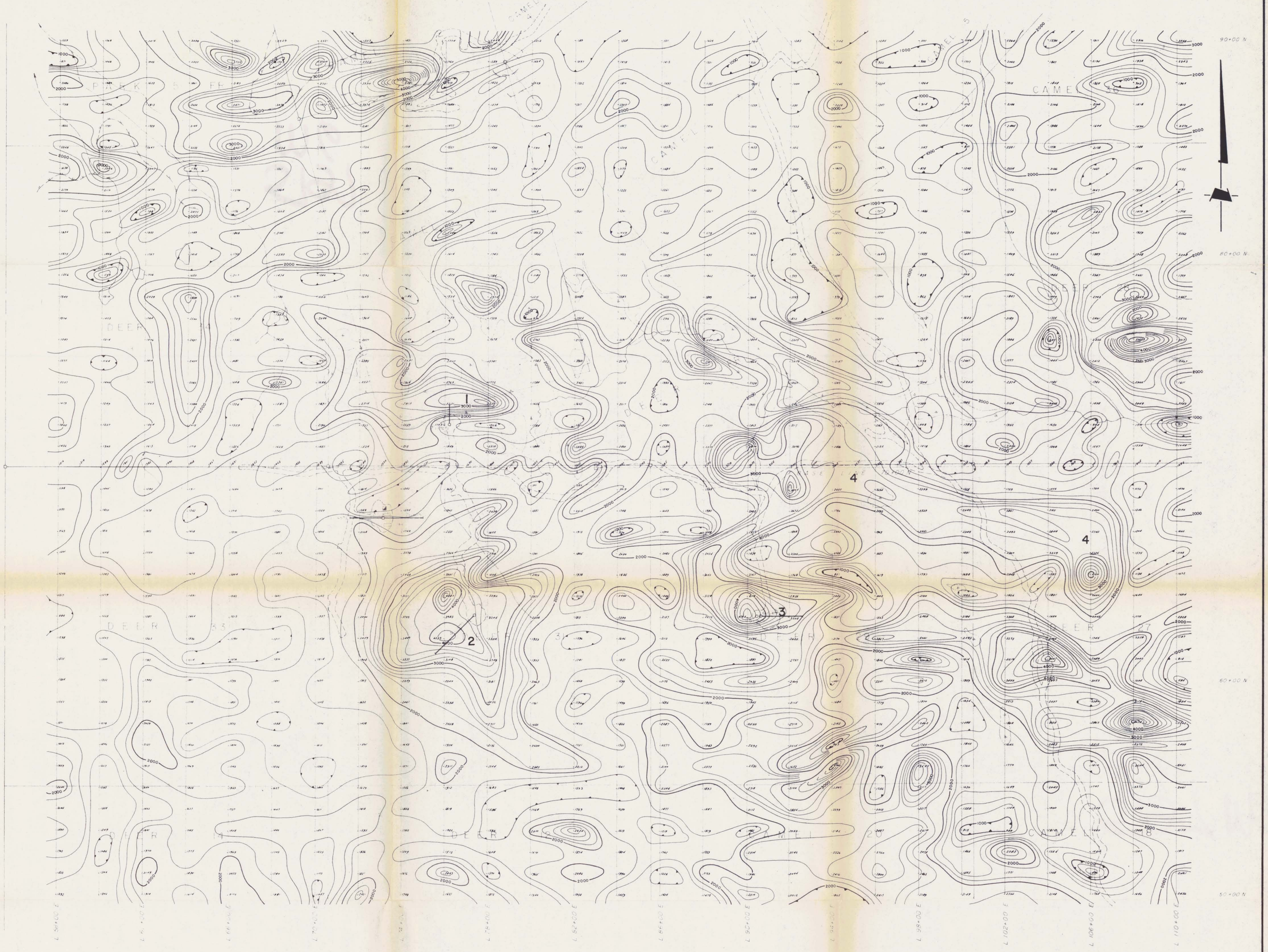

L E G E N D

INSTRUMENT	Geometrics 816 Proton Precession Magnetometer
MEASUREMENT	Total Field
OPERATOR	G. M. De Paoli
DATE	Nov. 1973
ABSOLUTE BASE VALUE	57,000 gammas
CONTOUR INTERVAL	200 gammas

- Shaft.
- Diamond drill hole (West Coast Mining and Exploration, 1971).
- Road.
- Stream.
- Swamp, swamp boundary.
- Claim post, claim location line.
- Claim boundary.
- Magnetometer survey reading in gammas.
- Isomagnetic contour, magnetic low.

2 Anomaly reference number.

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TRAIL CREEK MINING DIVISION — BRITISH COLUMBIA

MAGNETOMETER SURVEY MAP

SCALE 200 0 200 FEET
1:2,400

DATE REVISED	DATE PRINTED	Drawn by: H. C. P.	FIG. 5
		Date	
		N. T. S. File 82 E 8	

To accompany: "1973 GEOLOGICAL, GEOCHEMICAL AND GEO-PHYSICAL REPORT" by H.W. Sellmer and G.M. DePaoli.

L E G E N D

- Shaft.
- Diamond drill hole (West Coast Mining and Exploration, 1971).
- Road.
- Stream.
- Swamp, swamp boundary.
- Claim post, claim location line.
- Claim boundary.
- First separation resistivity readings in ohm meters.
- 3000 Resistivity contour, contour interval semilogarithmic (1, 2, 3, 5, 7.5, 10).

RECIEVER	IPR 7
TRANSMITER	IPC 2.5kw
ARRAY	Pole - Dipole a = 200'
OPERATOR	T. Guernier (Scintrex Surveys Ltd)
Date	Nov 1973

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M6

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DEER PARK PROPERTY

TRAIL CREEK MINING DIVISION — BRITISH COLUMBIA

RESISTIVITY
FIRST SEPARATION

SCALE 200 0 200 FEET
1 : 2,400

DATE REVISED	DATE PRINTED	Drawn by: H.C.P.	FIG. 6
		Date	
		N.T.S. File 82 E 8	

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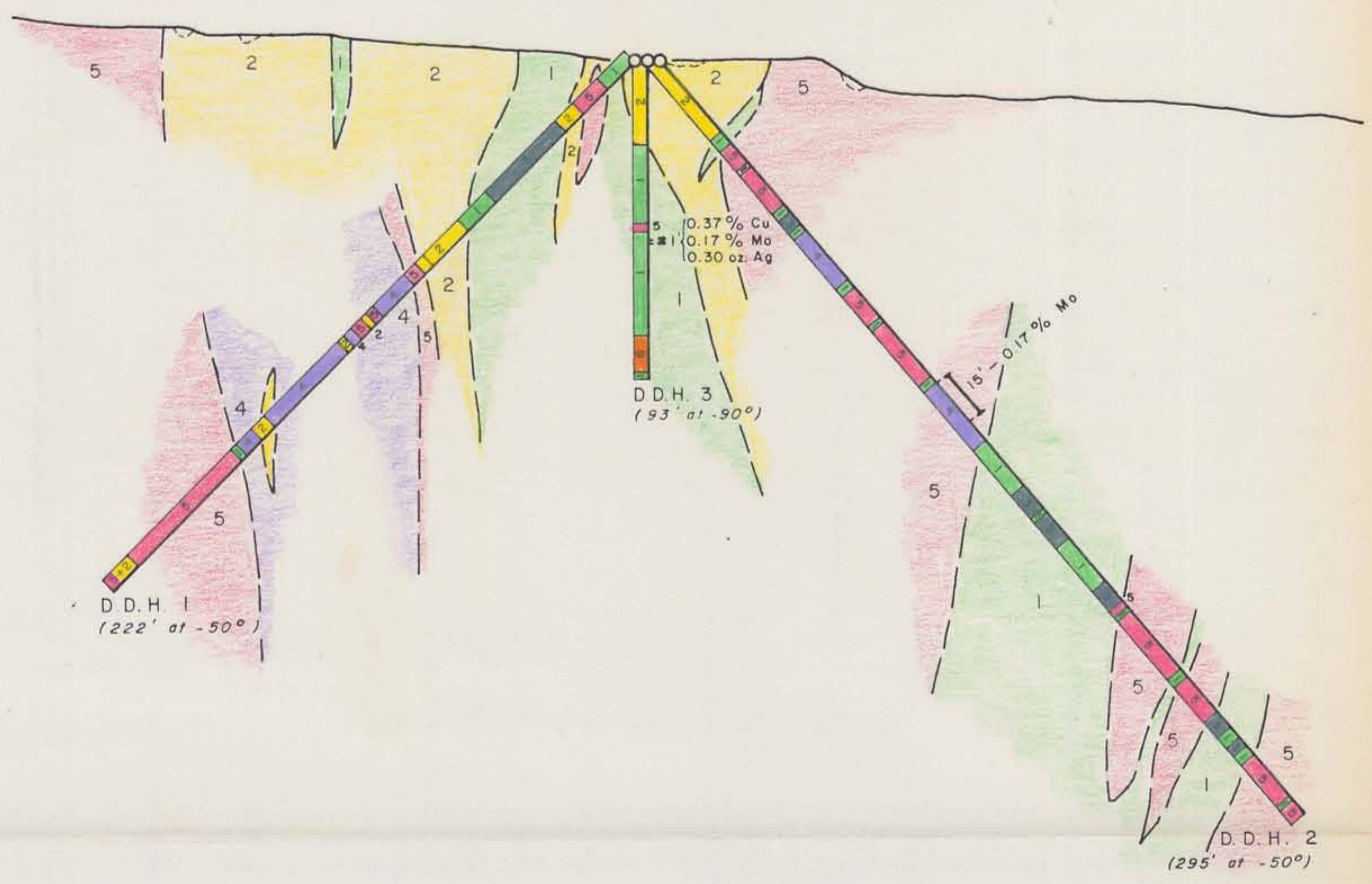
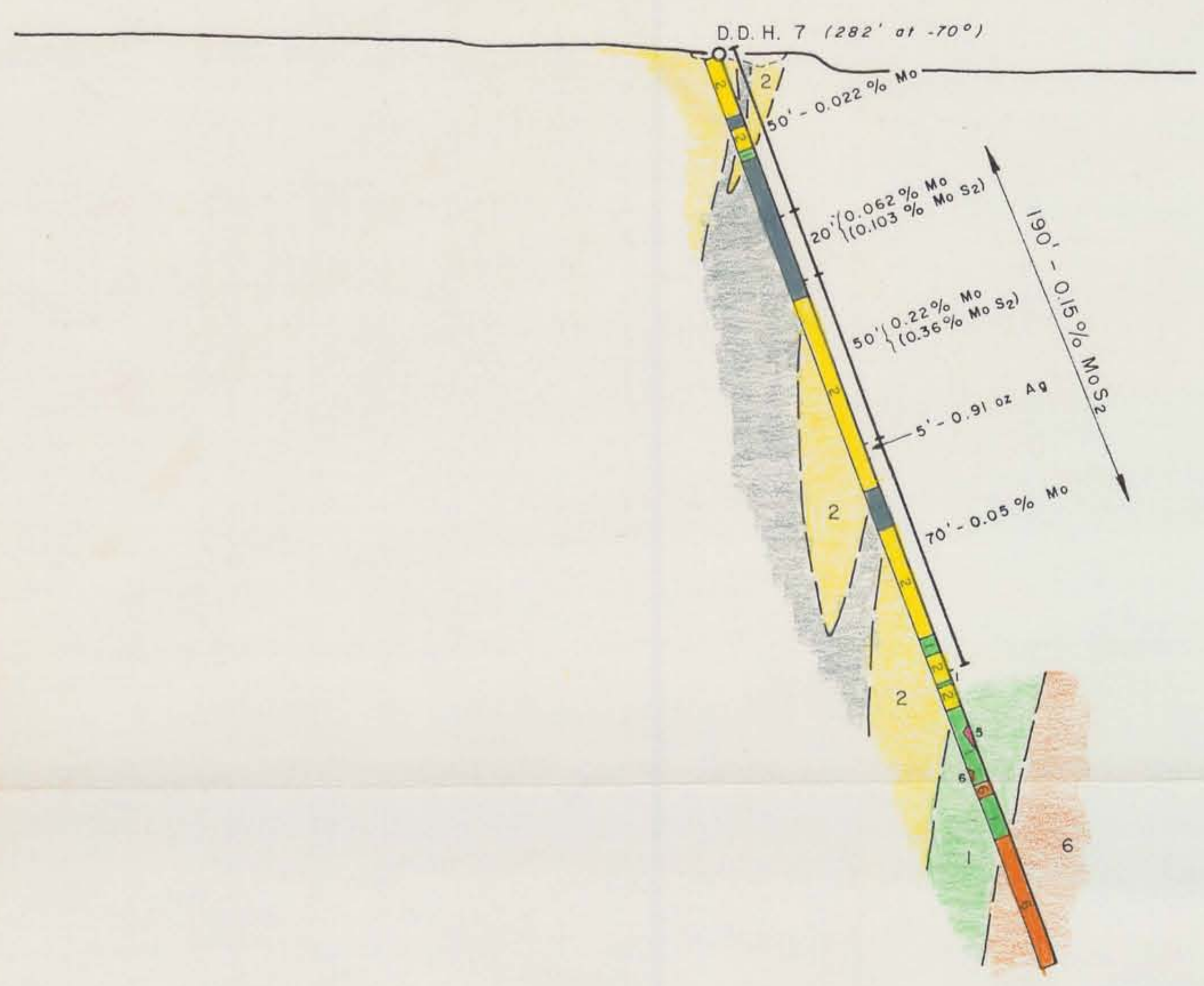
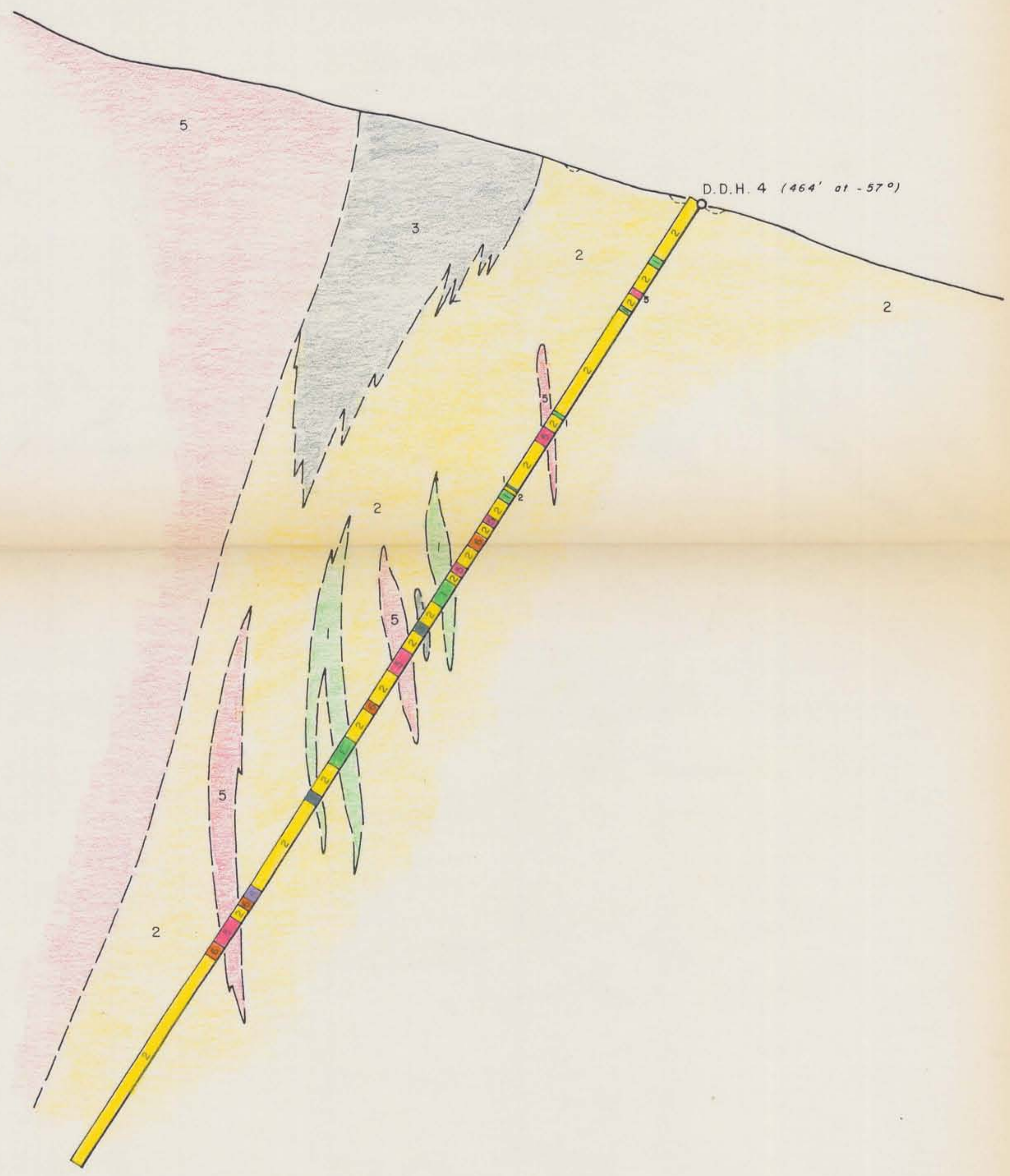


LOOKING NORTH



LOOKING WEST



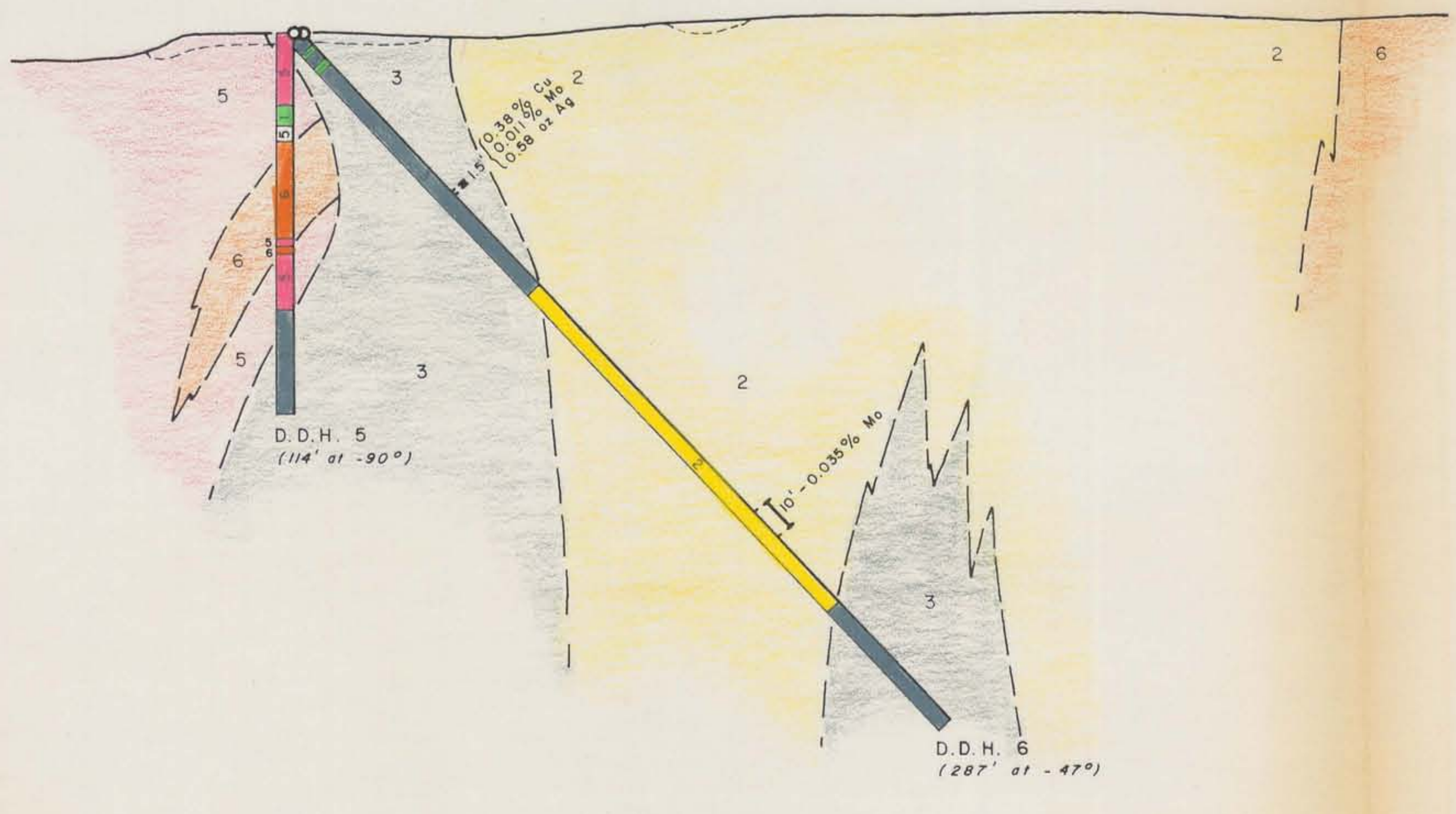
LOOKING NORTH WEST

LEGEND

1	*Andesite.*
2	*Breccia.*
3	*Syenite porphyry*
4	*Feldspar biotite porphyry.*
5	*Feldspar porphyry.*
6	*Monzonite to quartz monzonite.*

NOTE —

For complete legend see FIG. 3



LOOKING NORTH

H. W. Sellmer

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DEER PARK PROPERTY

TRAIL CREEK MINING DIVISION — BRITISH COLUMBIA

DIAMOND DRILL HOLE SECTIONS

SCALE 50 0 50 FEET

1 : 600

DATE REVISED	DATE PRINTED	Drawn by: H.C.P.	FIG. 7
		Date	
		N.T.S. File 82 E 8	

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