

KENNCO EXPLORATIONS, (WESTERN) LIMITED
REPORT ON GEOLOGICAL & GEOCHEMICAL SURVEY

BLACK NO. 2 GROUP

(Black Claims 43-45, Rec.No.'s 103409-103411)

Located 160 miles north of Smithers, B.C.
Omineca M.D., B.C.

57°18'N, 126°57'W July 10-11, 1972

By: D.A. Yeager

K.A. Grace, P.Eng.

94E/7W
November 6, 1972

3987

KENCO EXPLORATIONS, (WESTERN) LIMITED

REPORT

ON

GEOLOGICAL & GEOCHEMICAL SURVEY

BLACK NO. 2 GROUP

(Black Claims 43-45, Rec. No.'s 103409-103411)

Located 160 miles north of Smithers, B.C.,
Omineca Mining Division,
British Columbia

57°18'N, 126°57'W

July 10-11, 1972

3987

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3987 MAP

By:

D.A. Yeager

K.A. Grace, P.Eng.

November 6, 1972

Mining Recorder's Office
RECORDED
NOV 9 1972
AT
SMITHERS, B.C.

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
LOCATION AND ACCESS	2
GEOLOGY	3
ROCK AND SOIL GEOCHEMICAL SAMPLING	5
Sample Site Control	5
Packaging	5
Sample Preparation	5
Analysis	5
Interpretation	6
STATEMENT OF COSTS	7

LIST OF ILLUSTRATIONS

	#1	Location Map	1 : 250,000
#2	Plate	No. 1 Geology	1" = 400'
	#3	No. 2 Soil & Rock Sample Sites	"
	#4	No. 3 Copper in Soil & Rock	"
	#5	No. 4 Silver in Soil & Rock	"
	#6	No. 5 Gold in Soil & Rock	"
	#7	No. 6 Molybdenum in Soil & Rock	"
	#8	No. 7 Zinc in Soil & Rock	"
	#9	No. 8 Lead in Soil & Rock	"
	#10	No. 9 Nickel in Soil & Rock	"
	#11	No.10 Cobalt in Soil & Rock	"



Kennco Explorations (Western) Ltd.

Black No. 2 Group Department of

Situated 6 Miles South of Toodongone Lake

Denisco M.D., B.C.

Mines and Petroleum Resources

ASSESSMENT REPORT

NO. 3987 #1

Location Map

Scale 1 : 250,000

INTRODUCTION

The Black No. 2 Group, comprising Black No. 43-45 mineral claims (Record Numbers 103409-103411) is located at 57°18'N, 126°57'W, six miles due south of the western end of Toodoggone Lake, some 160 miles northeast of Smithers, B. C.

Field work was conducted by D.A. Yeager under the supervision of K.A. Grace, P.Eng.

LOCATION AND ACCESS

The property is located in mountainous terrain, between 5000' and 6500' a.s.l., on the west side of a north-south valley, some six miles due south of the west end of Toodoggone Lake, at approximately 57°18'N, 126°57'W.

Access is by means of float plane to either Toodoggone Lake, or Black Lake, six miles southwest of the claims. An exploration camp is maintained six miles west of the claims, with local access by helicopter.

GEOLOGY

The Black 43-45 mineral claims lie in an area of high relief; with sharp ridges, steep slopes, and many small cliff faces. Rock exposure in outcrop is subsequently very good over the entire three claims; the only area of poor exposure being immediately north and west of the mapped area. This is due to the noticeable jarosite soil gossan associated with the mineralized rock. However, previous soil sampling had indicated only the mapped area to be of interest so of all the outcrop available, on all three claims, only the area indicated was mapped in detail.

The geology is shown on Plate No. 1, and comprises the following units:

Map Unit

- 1 Quartz Monzonite
- 2 Syenite and Syenite Porphyry - Undifferentiated at Present Map Scale as both appear chemically similar, (i.e. K-feldspar crystals and phenocrysts, magnetite crystals and phenocrysts, and Epidote Aggregates) and both occur together in outcrop. There appear to be several phases of this intrusion and although not all outcrops contain copper minerals, almost every occurrence of malachite and azurite is associated with this rock type.
- 3 K-feldspar epidote latite porphyry
- 4 Syenite - definite holocrystalline syenite. Variation of grain size indicates several phases of intrusion but no differentiation was made for present map scale.
- 5 Feldspar hornblende porphyry - feldspars exhibit varying degrees of clay mineral alteration and hornblende phenocrysts show sub-parallel alignment.
- 6 Monzonite.

The oldest rock unit appears to be the quartz monzonite (Unit 1). This equigranular, holocrystalline rock is similar in appearance to Hogem (Omineca) intrusive rocks and is likely to be of equivalent age. In outcrop, the quartz monzonite is heavily goethite-stained from the oxidation of magnetite on fracture faces. It also contains scattered felsic quartz/K-feldspar zones, 1 to 2 feet in width, which contain minor disseminated pyrite.

The next youngest rocks appear to be the undifferentiated syenite and syenite porphyry dykes (Unit 2). The two rock types, texturally different phases of the same intrusion, are found together in outcrop each grading irregularly into the other. The syenite porphyry has a fine-grained crystalline groundmass with K-feldspar and magnetite phenocrysts and epidote crystal aggregates. In outcrop this grades into an equigranular magnetite epidote syenite. Unit 4 (syenite) is differentiated from Unit 2 by larger grain size and the absence of epidote and magnetite; however, the two units are often found in contact and both contain minor pyrite which could infer a similar age or source.

Contact relationships observed in the southwest end of the mapped zone indicate that Unit 3 (K-feldspar-epidote latite porphyry), is younger than both units 1 and 2. The relative ages of the feldspar hornblende porphyry (Unit 5) and the monzonite (Unit 6) were not completely determined by mapping although the monzonite could be of equivalent age to the quartz monzonite of Unit 1, and the feldspar hornblende porphyry is shown to intrude Unit 1.

The most promising rock type in the map area, as a host rock for copper minerals, is the undifferentiated syenite/syenite porphyry unit. The major copper showings in the claim group are found in this rock type with one representative grab sample from an area of 200 square feet (KX-26519) yielding 1.50% Cu. However, the 200 square foot area appears to be the extent of that particular showing and most of the other showings are small by comparison. No copper sulphides were seen as the rock was well weathered, the copper minerals being malachite and azurite.

The amount of syenite/syenite porphyry rock in the map area and on the claim group is quite high compared to the other rock types. As this is the favourable host rock for copper minerals it is indicated that further exposure of the syenite/syenite porphyry now covered by the soil gossan may reveal additional copper-mineralized rock.

ROCK & SOIL GEOCHEMICAL SAMPLING

Sample Site Control

Sample sites were located directly from aerial photographs and checked against claim posts, tied in with the geological mapping, and then plotted on an enlarged map at a scale of 1" = 400'.

Soil samples were collected by digging a small hole with a mattock to the "B" horizon. All sample sites were marked with surveyor's flagging, and site details noted.

Rock samples were collected from fresh outcrop, where possible, from the bottom of trenches, or from float samples in scree slopes where no outcrop occurs.

All samples are marked on the accompanying maps as to whether they are soil, rock, or float.

Packaging

Soil samples were packaged in 9" x 4" wet strength brown paper sample envelopes, and suitably marked with the sample number. Rock samples were collected in cloth bags of similar size, and similarly marked.

Sample Preparation

All samples were shipped to the Company's laboratory in North Vancouver. Soil samples were oven-dried and sieved through an 80 mesh stainless steel screen. The minus 80 mesh portion was used for analysis.

Rock samples were primary crushed to 1/4" size, then to minus 10 mesh, and pulverized to minus 100 mesh.

Analysis

The samples were analysed in the North Vancouver laboratory of Kennco Explorations, (Western) Limited under the supervision of H. Goddard, laboratory manager.

The Cu, Mo, Pb, Zn, Co, Ni, Ag analyses utilizes a one-gram 80 mesh sample which is placed in a 25 x 200 mm test tube. Two ml of concentrated nitric acid is added. The sample is allowed to digest 15 minutes, and 5 ml of 70% perchloric acid is added. The sample is digested on a medium heat hot plate for four hours. After cooling the sample is diluted to 55 ml with distilled water, agitated, and after settling, the solution is used for the determination of Cu, Mo, Pb, Zn, Co, Ni, Ag by an Atomic Absorption Spectrophotometer (Techtron AA5).

The Au analysis utilizes a 10-gram sample treated and analysed as above.

Interpretation

Geochemical sampling results are plotted on Plates 2-10.

Two soil samples on a ridge indicate anomalous concentrations of copper (560 ppm), molybdenum (125 and 43 ppm), lead (6200 ppm), zinc (370 ppm), silver (4.9 ppm), and gold (0.10 ppm).

Rock samples contain up to 1.5% Cu along the mountain ridge, but only up to 395 ppm in deep trenches cut through scree slopes. Scree float samples also confirm the lower trench values. Zinc values are anomalous in outcrop, 2750 ppm, but scree and trench assays are low. Molybdenum, lead, silver, and gold values are low in all rock samples.

Nickel and cobalt values are not anomalous in any sample from the property.

The geochemical results indicated that copper is the only element present in possibly economic concentrations, and that copper-rich zones are most likely confined to the mountaintop ridge running northeast across Black #44 mineral claim.

Vancouver, B. C.

November 6, 1972

David A Yeager

D. A. Yeager

K. A. Grace

K. A. Grace, P.Eng.

STATEMENT OF COSTS

BLACK NO. 2 GROUP

Geology:

Salaries: K. A. Grace	1 day @ \$55.00	\$55.00	
	D. A. Yeager 2 days @ \$25.00	50.00	
Board & Lodging:	3 mandays @ \$16.50/day	49.50	
Helicopter Transport:	40 mins. @ 180/hr.	120.00	\$274.50

Geochemical:

Assays: 14 samples @ \$6.50 each	\$91.00	91.00
----------------------------------	---------	-------

Drafting & Plotting:

\$45.00	<u>45.00</u>
	<u>\$410.50</u>

November 6, 1972



K. A. Grace, P. Eng.

Declared before me at the

Province of British Columbia, **VANCOUVER, B. C.**

Day of

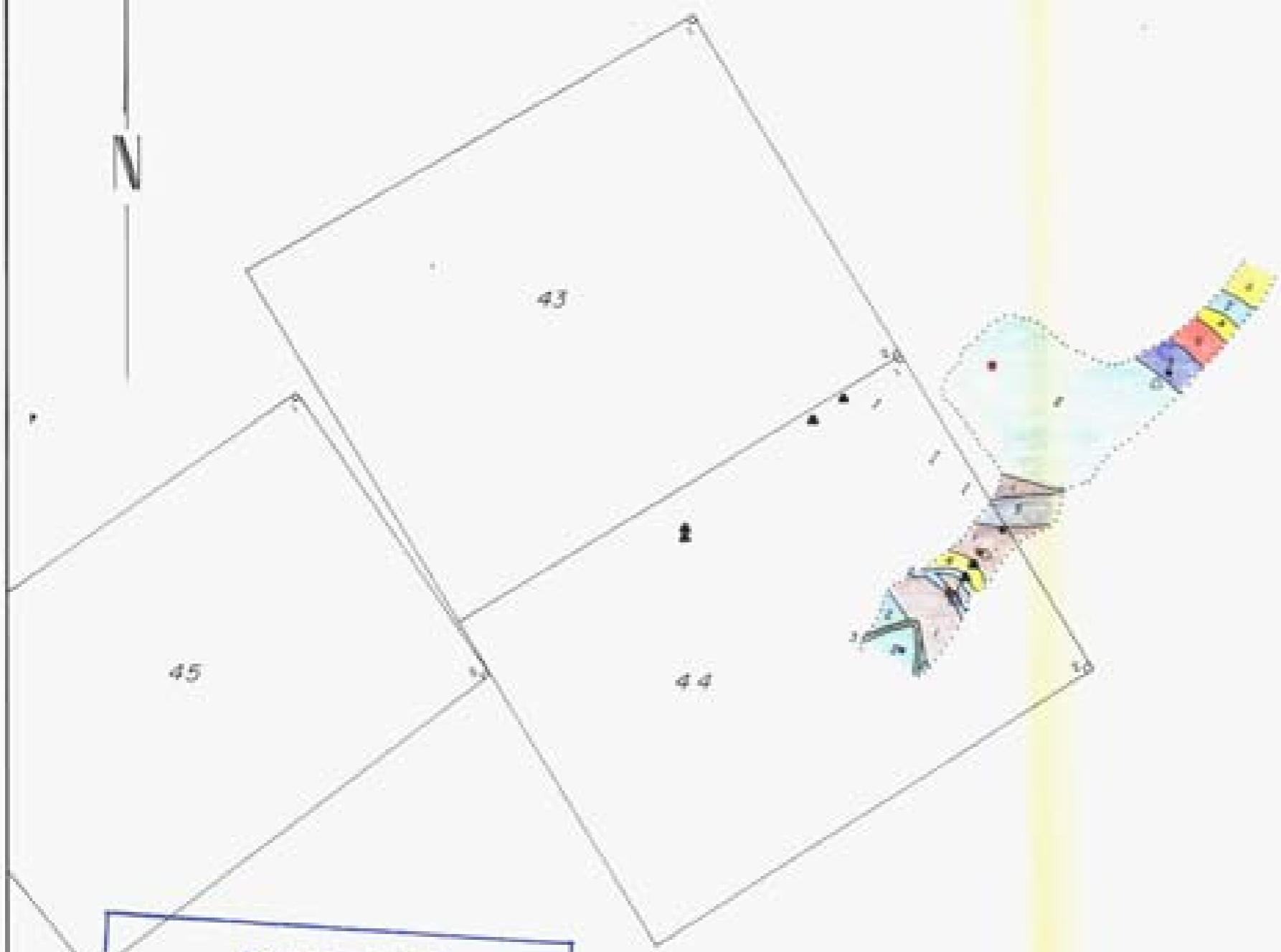
NOV 6 1972



Sub - Mining Recorder

A Commissioner for taking Affidavits in the Province of British Columbia
 A Notary Public in and for the Province of British Columbia







LITHOLOGY

- 1. Quartz Monzonite
- 2. Spinite and Spinite Porphyry - Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e., K-Feldspar Crystals and Plagioclase, Magnetite, Crystals and Phenocrysts, and Epidote Aggregates and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrop Contain Copper Minerals, Almost Every Occurrence of Magnetite and Arsenic is Associated with this Rock Type
- 3. K-Feldspar Epidote Lathite Porphyry
- 4. Spinite - Definite Metasomatic Spinite Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale
- 5. Feldspar Hornblende Porphyry - Feldspar Lathite Varying Degree of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment
- 6. Monzonite

LEGEND

-  Geological Contact
-  Claim Boundary 80 Feet
-  Copper Showing
-  Drilling
-  Channel Sample Trench
-  Rock Chip (Foot)
-  Rock Sample
-  Soil Sample

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **3987** M.P. #2

[Handwritten Signature]



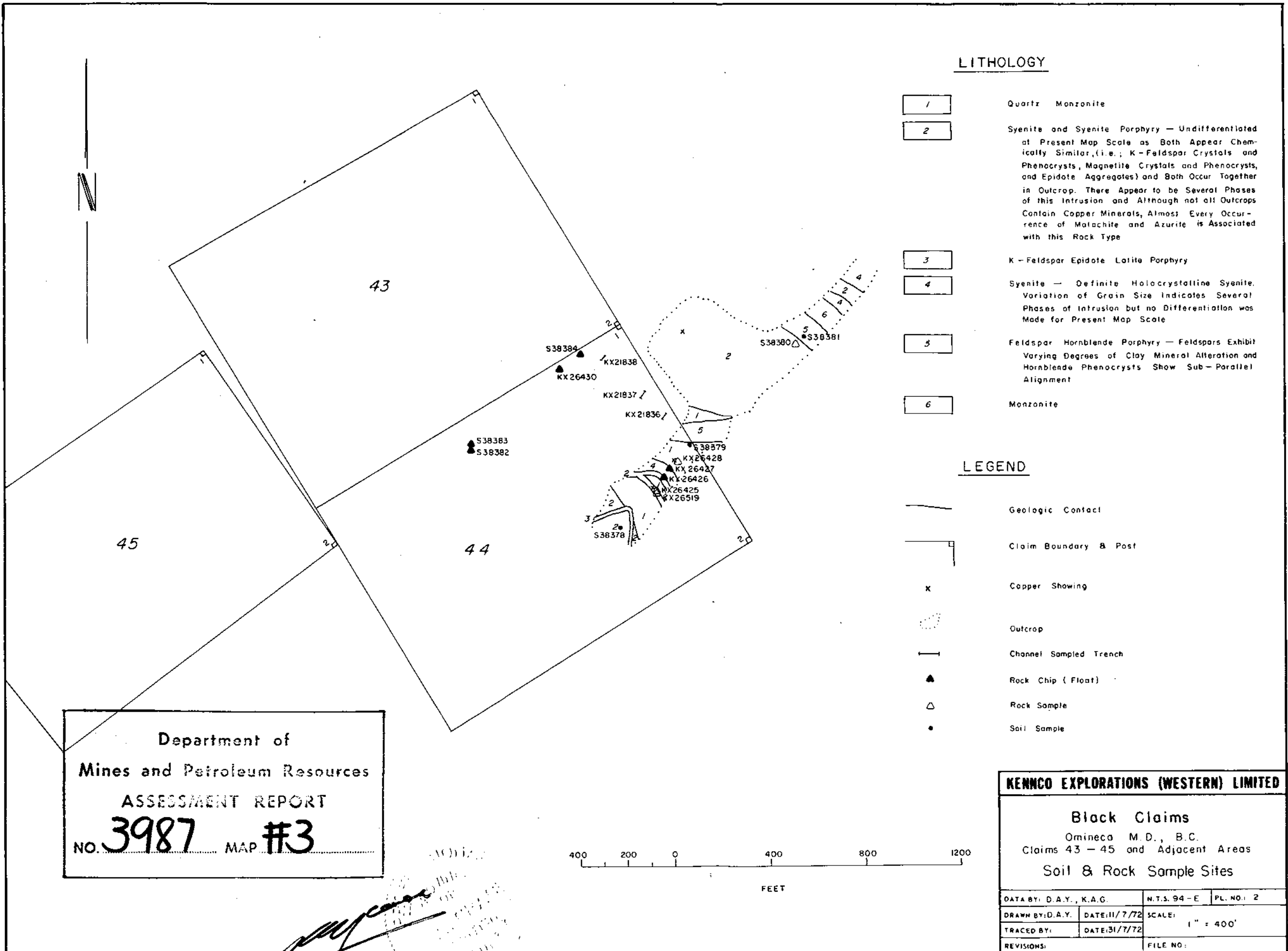
KENNCO EXPLORATIONS (WESTERN) LIMITED		
Block Claims		
Omineca M.D., B.C.		
Claims 43 - 45 and Adjacent Areas		
Geology		
DATA BY: G.A.T., K.S.C.	DATE: 9/1/72	SCALE: 1" = 400'
DRAWN BY: G.A.T.	DATE: 11/7/72	
TRACED BY: G.A.T.	DATE: 11/7/72	
REVISED:		FILE NO.:

LITHOLOGY

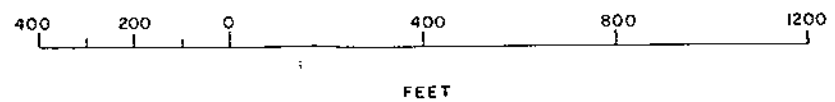
- | | |
|---|---|
| 1 | Quartz Monzonite |
| 2 | Syenite and Syenite Porphyry — Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e.; K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type |
| 3 | K-Feldspar Epidote Latite Porphyry |
| 4 | Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale |
| 5 | Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment |
| 6 | Monzonite |

LEGEND

- | | |
|---|------------------------|
| | Geologic Contact |
| <div style="position: absolute; right: -5px; top: -5px; border-left: 1px solid black; border-top: 1px solid black; width: 5px; height: 5px;"></div> | Claim Boundary & Post |
| x | Copper Showing |
| ○ | Outcrop |
| — | Channel Sampled Trench |
| ▲ | Rock Chip (Float) |
| △ | Rock Sample |
| • | Soil Sample |



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **3987** MAP **#3**



KENCO EXPLORATIONS (WESTERN) LIMITED

Black Claims
 Omineca M.D., B.C.
 Claims 43 - 45 and Adjacent Areas
 Soil & Rock Sample Sites

DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO. 2
DRAWN BY: D.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'
TRACED BY:	DATE: 31/7/72	
REVISIONS:	FILE NO.:	

[Handwritten Signature]
 10/11/72

LITHOLOGY

- | | |
|---|---|
| 1 | Quartz Monzonite |
| 2 | Syenite and Syenite Porphyry — Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e.; K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type |
| 3 | K-Feldspar Epidote Latite Porphyry |
| 4 | Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale |
| 5 | Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment |
| 6 | Monzonite |

LEGEND

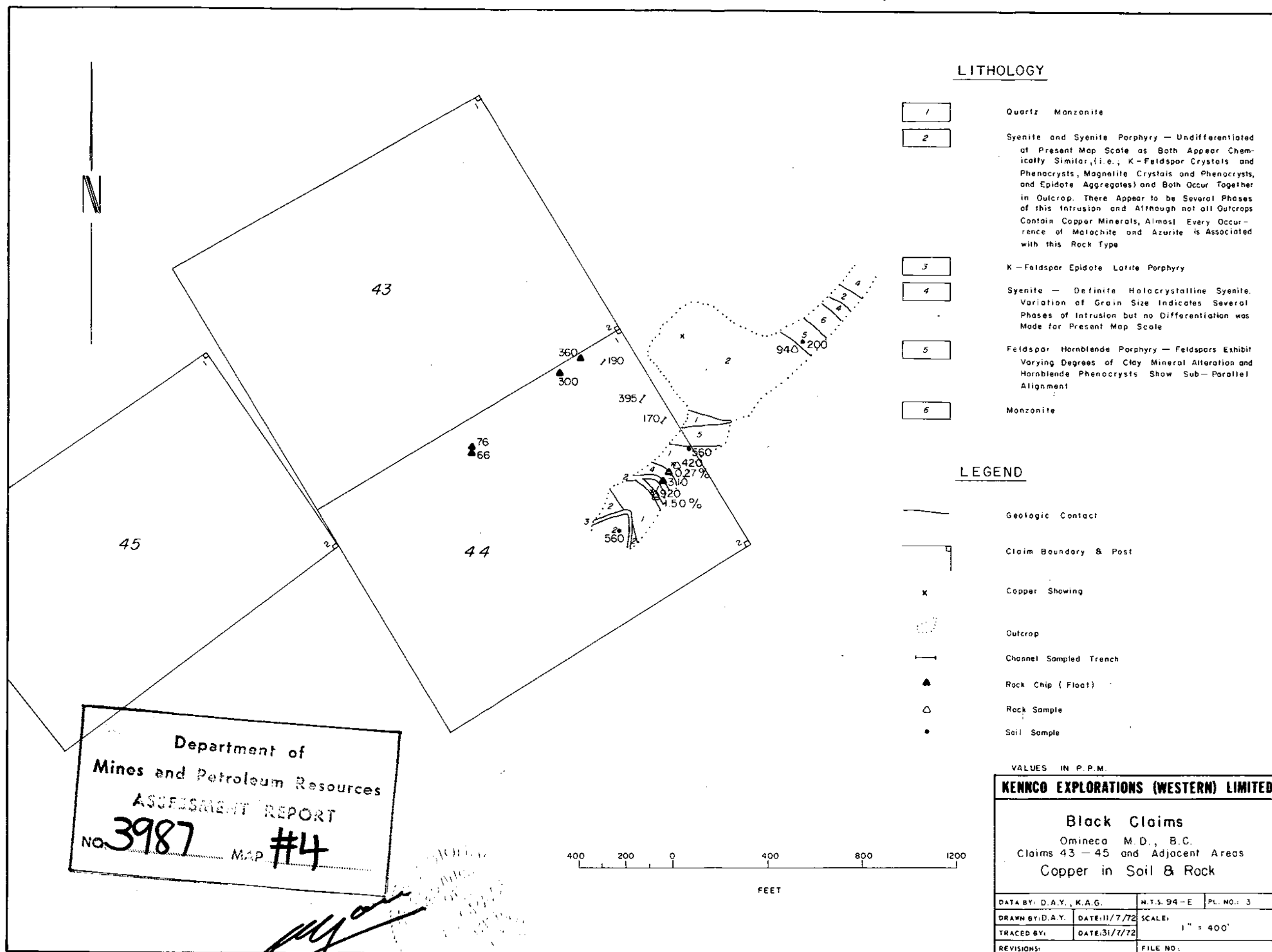
- | | |
|---|------------------------|
| | Geologic Contact |
| | Claim Boundary & Post |
| x | Copper Showing |
| ○ | Outcrop |
| — | Channel Sampled Trench |
| ▲ | Rock Chip (Float) |
| △ | Rock Sample |
| • | Soil Sample |

VALUES IN P.P.M.

KENNCO EXPLORATIONS (WESTERN) LIMITED

Black Claims
 Omineca M.D., B.C.
 Claims 43 - 45 and Adjacent Areas
 Copper in Soil & Rock

DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO.: 3
DRAWN BY: D.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'
TRACED BY:	DATE: 31/7/72	
REVISIONS:		FILE NO.:



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **3987** MAP **#4**

[Handwritten Signature]

LITHOLOGY

- | | |
|---|---|
| 1 | Quartz Monzonite |
| 2 | Syenite and Syenite Porphyry — Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e.; K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type |
| 3 | K-Feldspar Epidote Latite Porphyry |
| 4 | Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale |
| 5 | Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment |
| 6 | Monzonite |

LEGEND

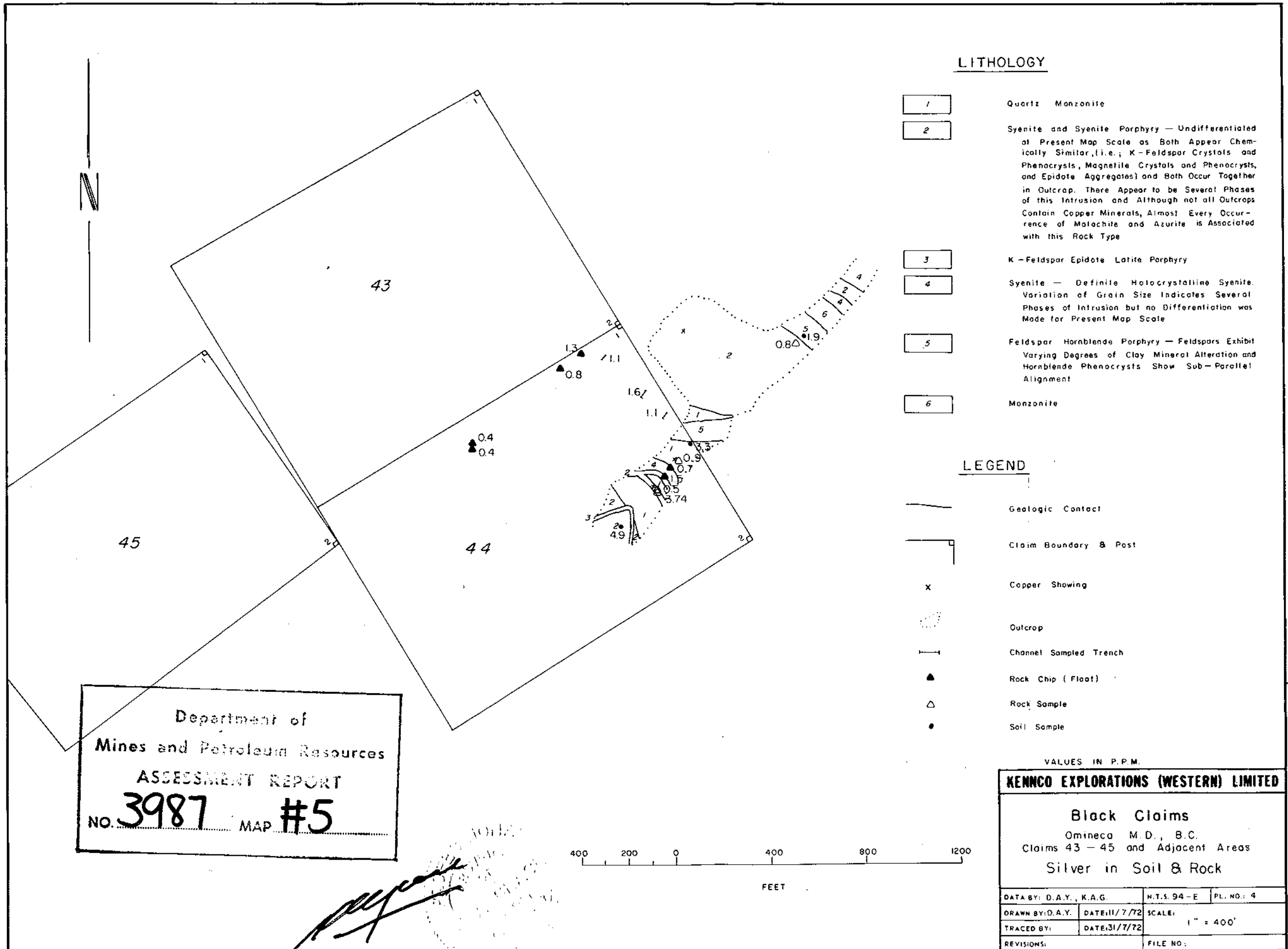
- | | |
|-----|------------------------|
| | Geologic Contact |
| | Claim Boundary & Post |
| x | Copper Showing |
| ○ | Outcrop |
| — — | Channel Sampled Trench |
| ▲ | Rock Chip (Float) |
| △ | Rock Sample |
| ● | Soil Sample |

VALUES IN P.P.M.

KENNCO EXPLORATIONS (WESTERN) LIMITED

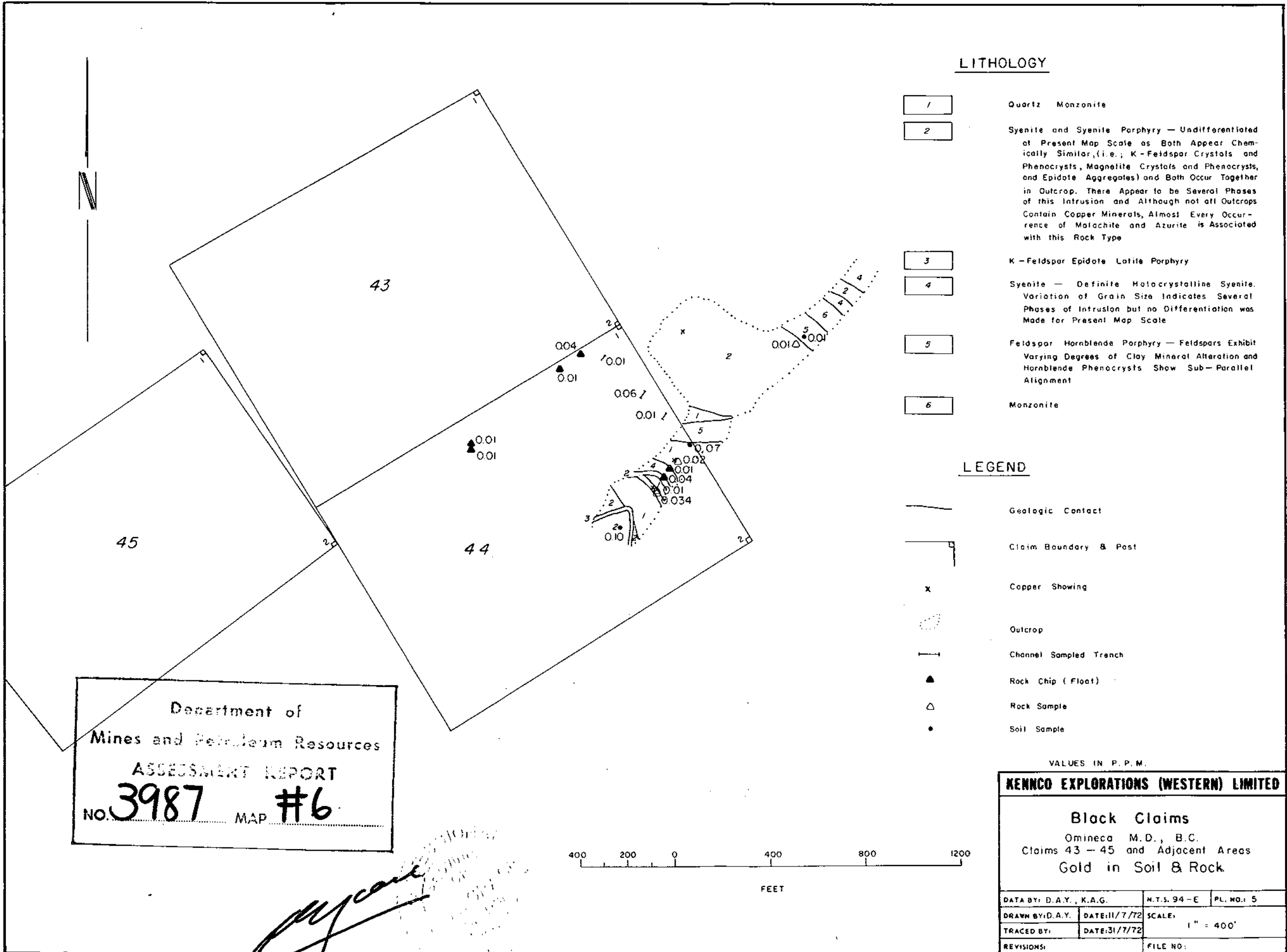
Black Claims
Omineca M.D., B.C.
Claims 43 - 45 and Adjacent Areas
Silver in Soil & Rock

DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO.: 4
DRAWN BY: D.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'
TRACED BY:	DATE: 31/7/72	
REVISIONS:		FILE NO.:



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **3987** MAP **#5**

[Handwritten signature]



LITHOLOGY

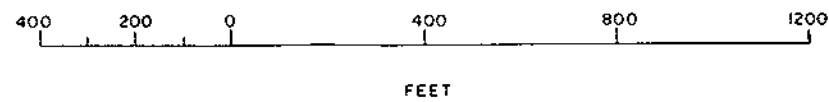
- 1 Quartz Monzonite
- 2 Syenite and Syenite Porphyry — Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e.; K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type
- 3 K-Feldspar Epidote Latite Porphyry
- 4 Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale
- 5 Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment
- 6 Monzonite

LEGEND

- Geologic Contact
- Claim Boundary & Post
- x Copper Showing
- - - Outcrop
- Channel Sampled Trench
- ▲ Rock Chip (Float)
- △ Rock Sample
- Soil Sample

VALUES IN P.P.M.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **3987** MAP **#6**

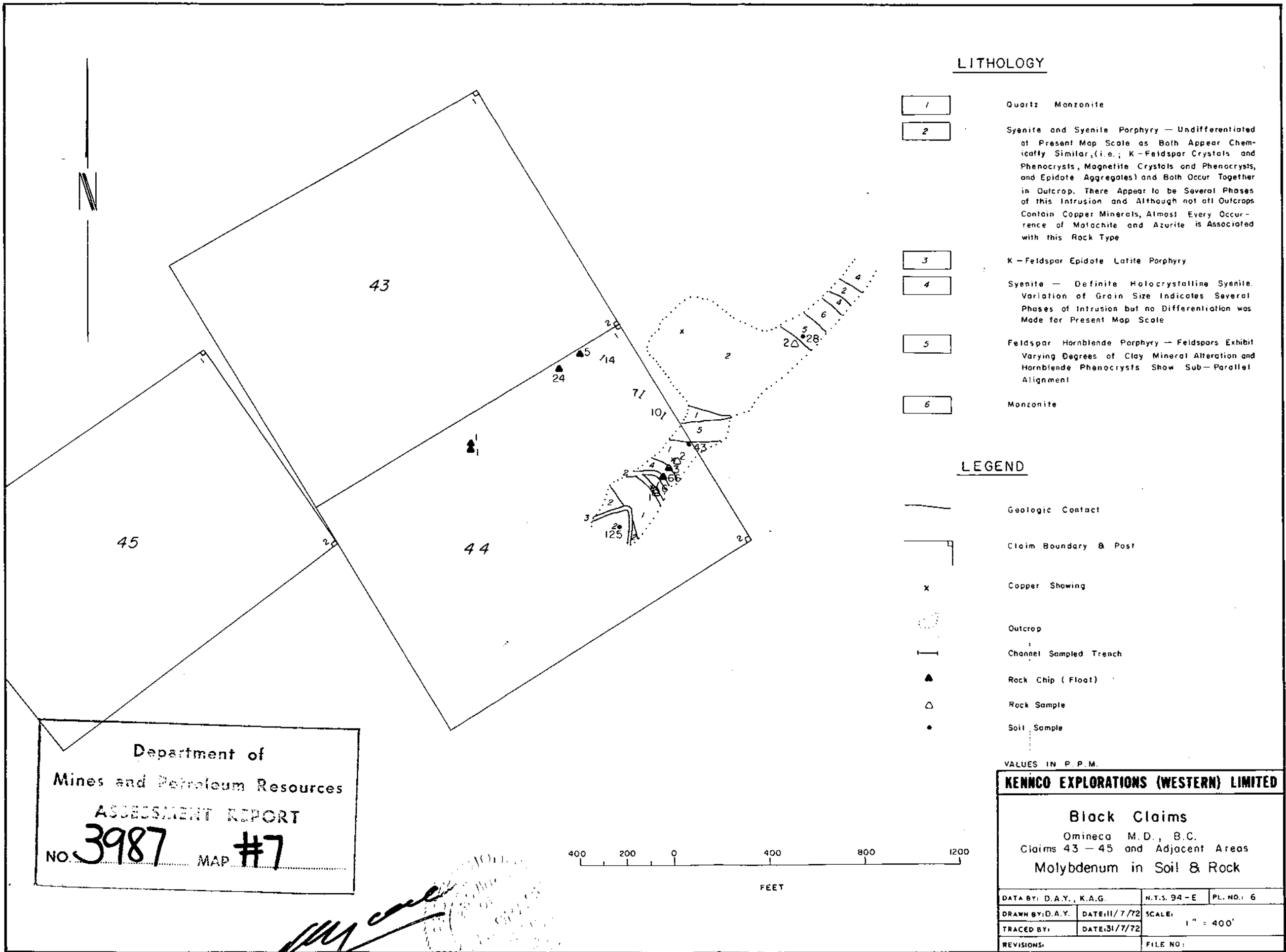


KENCO EXPLORATIONS (WESTERN) LIMITED

Black Claims
Omineca M.D., B.C.
Claims 43 — 45 and Adjacent Areas
Gold in Soil & Rock

DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO.: 5
DRAWN BY: D.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'
TRACED BY:	DATE: 31/7/72	
REVISIONS:		FILE NO.:

[Handwritten signature]



LITHOLOGY

- 1 Quartz Monzonite
- 2 Syenite and Syenite Porphyry — Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e.; K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type
- 3 K-Feldspar Epidote Latite Porphyry
- 4 Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale
- 5 Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment
- 6 Monzonite

LEGEND

- Geologic Contact
- Claim Boundary & Post
- x Copper Showing
- Outcrop
- Channel Sampled Trench
- ▲ Rock Chip (Float)
- △ Rock Sample
- Soil Sample

VALUES IN P.P.M.

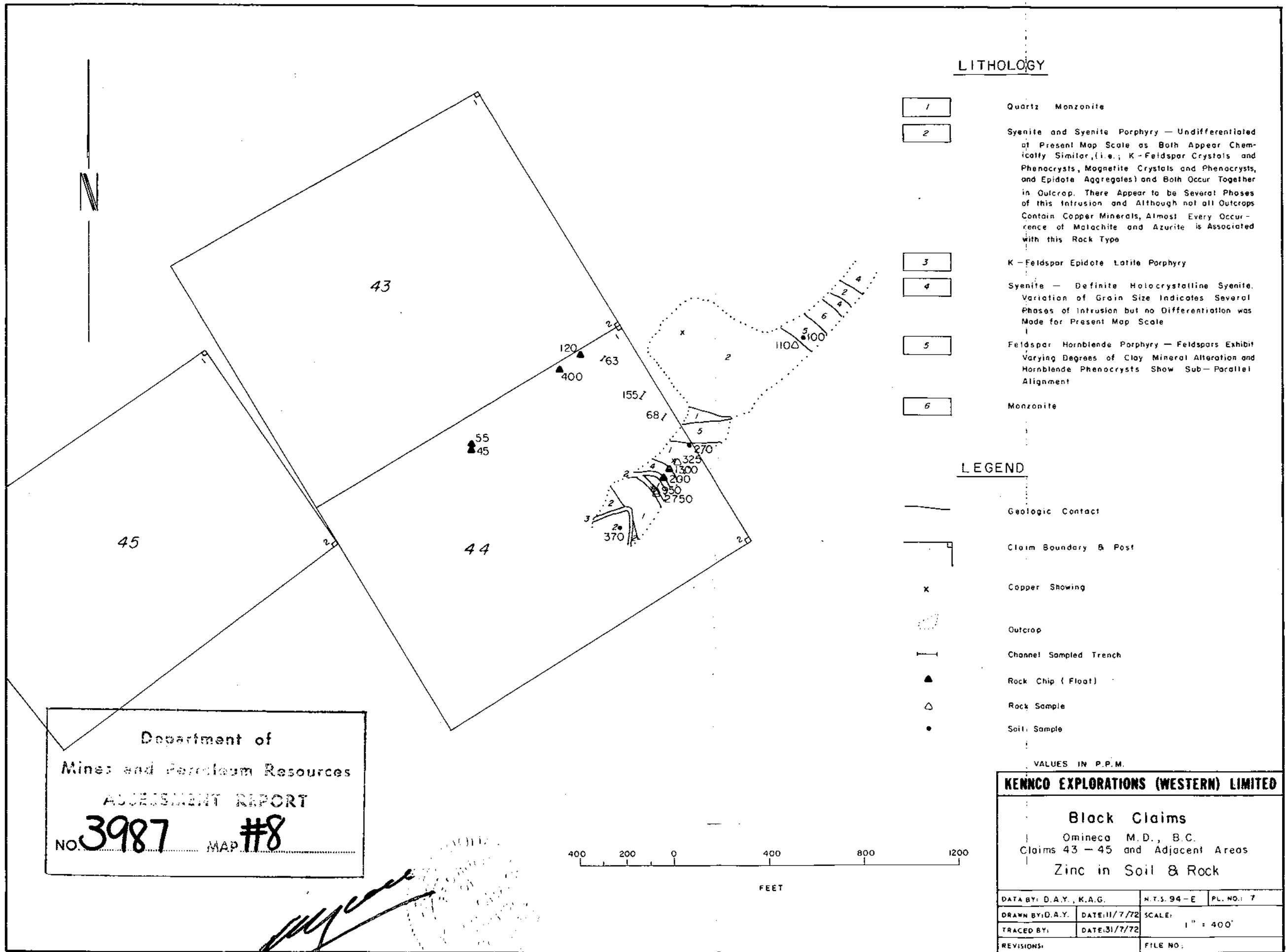
KENCO EXPLORATIONS (WESTERN) LIMITED

Black Claims
 Omineca M.D., B.C.
 Claims 43 — 45 and Adjacent Areas
 Molybdenum in Soil & Rock

DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO.: 6
DRAWN BY: D.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'
TRACED BY:	DATE: 31/7/72	
REVISIONS:		FILE NO.:

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **3987** MAP **#7**

[Handwritten signature]



LITHOLOGY

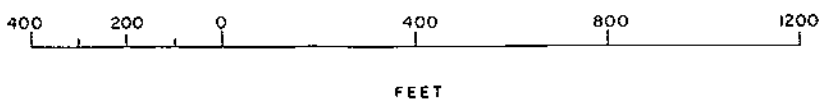
- 1 Quartz Monzonite
- 2 Syenite and Syenite Porphyry — Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e., K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type
- 3 K-Feldspar Epidote Latite Porphyry
- 4 Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale
- 5 Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment
- 6 Monzonite

LEGEND

- Geologic Contact
- Claim Boundary & Post
- x Copper Showing
- Outcrop
- Channel Sampled Trench
- ▲ Rock Chip (Float)
- △ Rock Sample
- Soil Sample

VALUES IN P.P.M.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **3987** MAP # **8**

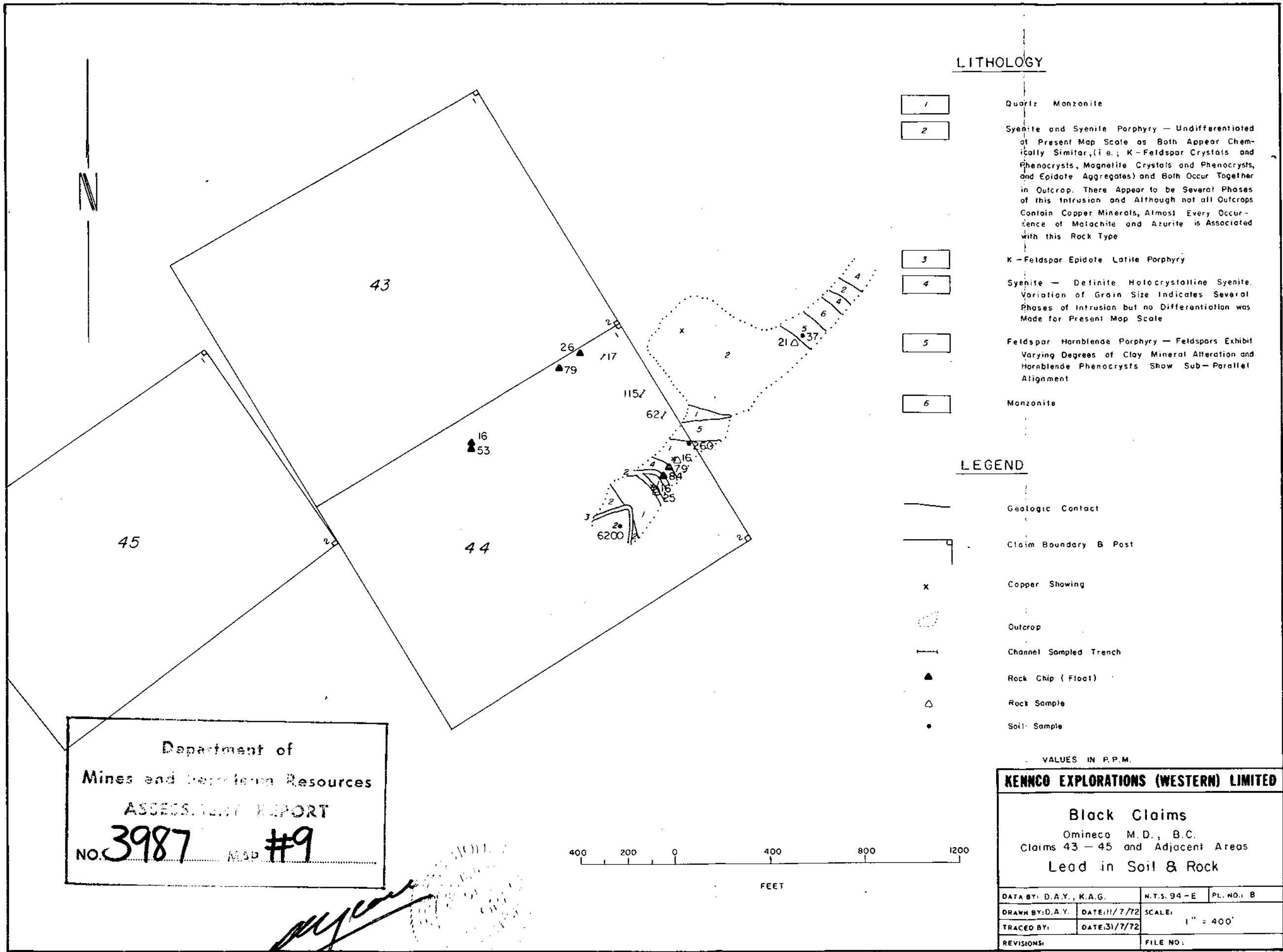


KENNCO EXPLORATIONS (WESTERN) LIMITED

Black Claims
Omineca M.D., B.C.
Claims 43 - 45 and Adjacent Areas
Zinc in Soil & Rock

DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO.: 7
DRAWN BY: D.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'
TRACED BY:	DATE: 31/7/72	
REVISIONS:	FILE NO.:	

[Handwritten signature]



LITHOLOGY

- 1 Quartz Monzonite
- 2 Syenite and Syenite Porphyry — Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e.; K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type
- 3 K-Feldspar Epidote Latite Porphyry
- 4 Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale
- 5 Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment
- 6 Monzonite

LEGEND

- Geologic Contact
- Claim Boundary B Post
- x Copper Showing
- Outcrop
- Channel Sampled Trench
- ▲ Rock Chip (float)
- △ Rock Sample
- Soil Sample

VALUES IN P.P.M.

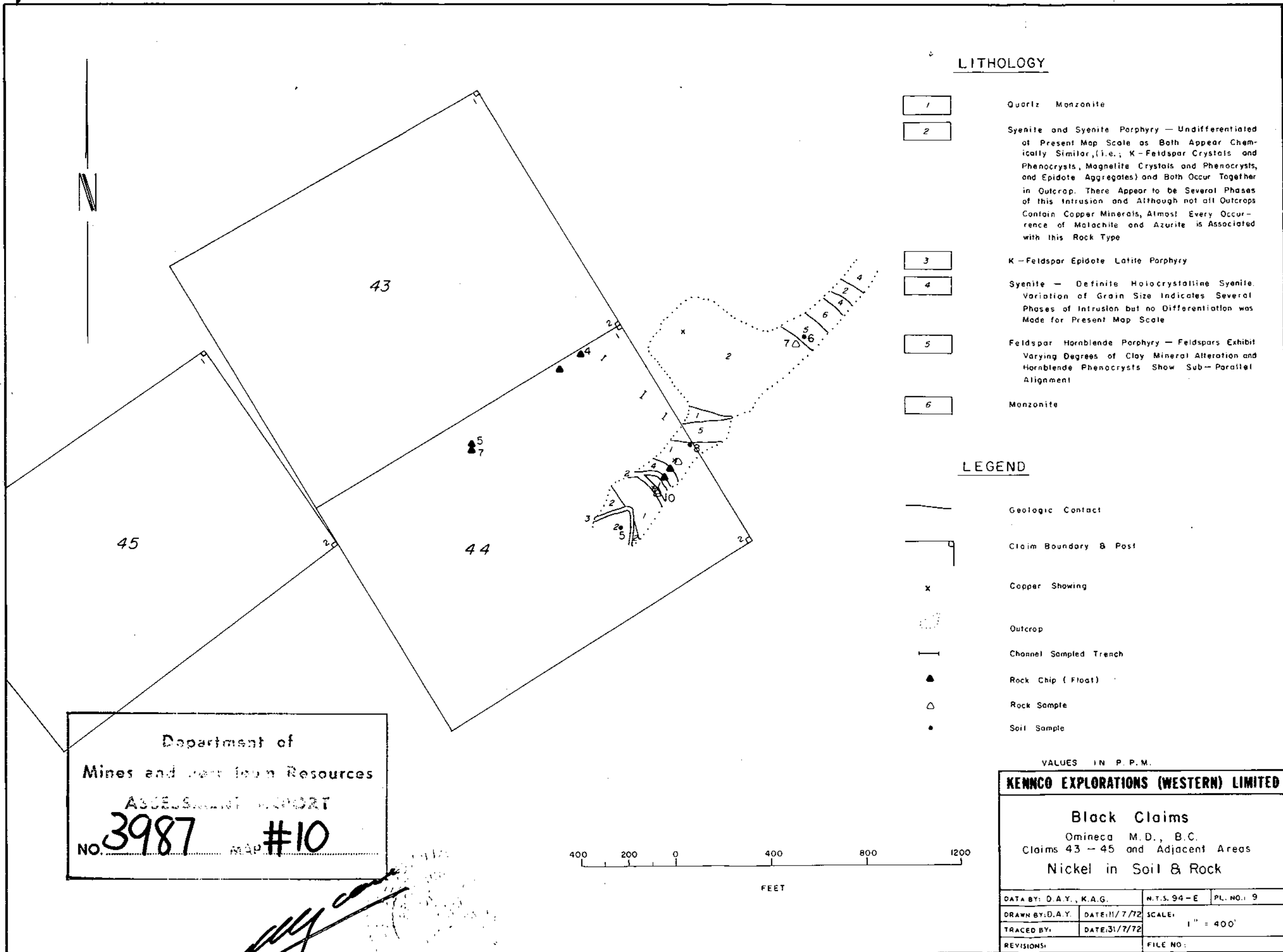
KENNCO EXPLORATIONS (WESTERN) LIMITED

Black Claims
 Omineca M.D., B.C.
 Claims 43 - 45 and Adjacent Areas
 Lead in Soil & Rock

DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO.: B
DRAWN BY: D.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'
TRACED BY:	DATE: 31/7/72	
REVISIONS:		FILE NO.:

Department of
 Mines and Technical Resources
 ASSESSMENT REPORT
 NO. 3987 MAP #9

[Handwritten signature]



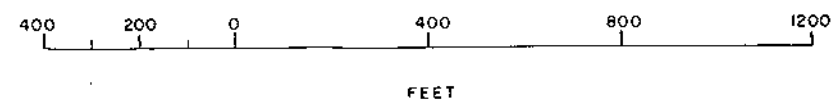
LITHOLOGY

- 1 Quartz Monzonite
- 2 Syenite and Syenite Porphyry — Undifferentiated of Present Map Scale as Both Appear Chemically Similar, (i.e.; K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type
- 3 K-Feldspar Epidote Latite Porphyry
- 4 Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale
- 5 Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment
- 6 Monzonite

LEGEND

- Geologic Contact
- Claim Boundary & Post
- x Copper Showing
- ⋯ Outcrop
- - - Channel Sampled Trench
- ▲ Rock Chip (Float)
- △ Rock Sample
- Soil Sample

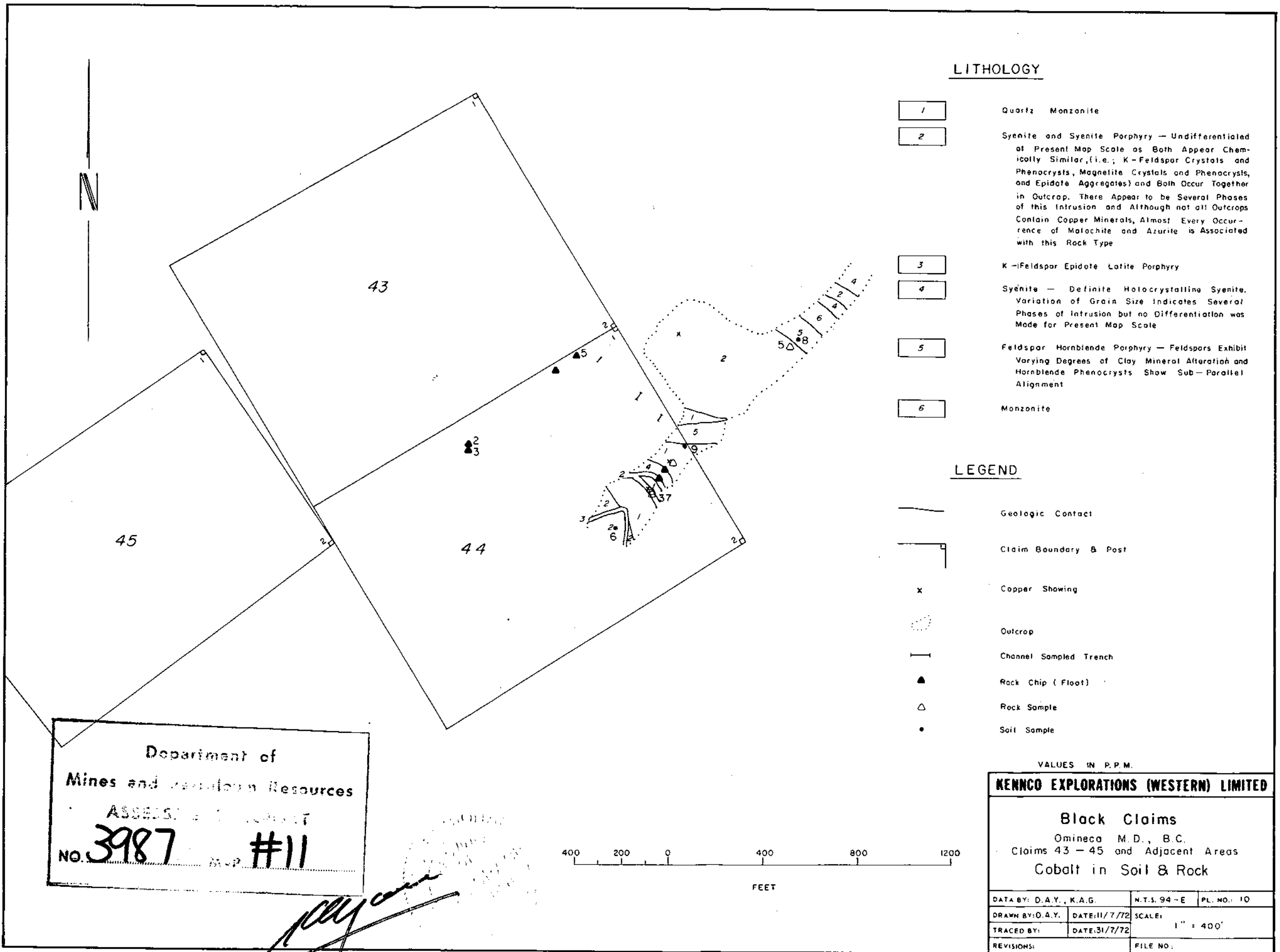
Department of
Mines and Technical Resources
ASSESSMENT REPORT
NO. **3987** MAP # **10**



VALUES IN P.P.M.

KENCO EXPLORATIONS (WESTERN) LIMITED			
Black Claims			
Omineca M.D., B.C.			
Claims 43 - 45 and Adjacent Areas			
Nickel in Soil & Rock			
DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO.: 9	
DRAWN BY: D.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'	
TRACED BY:	DATE: 31/7/72		
REVISIONS:	FILE NO.:		

[Handwritten signature]



LITHOLOGY

- 1 Quartz Monzonite
- 2 Syenite and Syenite Porphyry — Undifferentiated at Present Map Scale as Both Appear Chemically Similar, (i.e.; K-Feldspar Crystals and Phenocrysts, Magnetite Crystals and Phenocrysts, and Epidote Aggregates) and Both Occur Together in Outcrop. There Appear to be Several Phases of this Intrusion and Although not all Outcrops Contain Copper Minerals, Almost Every Occurrence of Malachite and Azurite is Associated with this Rock Type
- 3 K-Feldspar Epidote Latite Porphyry
- 4 Syenite — Definite Holocrystalline Syenite. Variation of Grain Size Indicates Several Phases of Intrusion but no Differentiation was Made for Present Map Scale
- 5 Feldspar Hornblende Porphyry — Feldspars Exhibit Varying Degrees of Clay Mineral Alteration and Hornblende Phenocrysts Show Sub-Parallel Alignment
- 6 Monzonite

LEGEND

- Geologic Contact
- Claim Boundary & Post
- x Copper Showing
- Outcrop
- Channel Sampled Trench
- ▲ Rock Chip (Float)
- △ Rock Sample
- Soil Sample

VALUES IN P.P.M.

KENNCO EXPLORATIONS (WESTERN) LIMITED

Black Claims
 Omineca M.D., B.C.
 Claims 43 - 45 and Adjacent Areas
 Cobalt in Soil & Rock

DATA BY: D.A.Y., K.A.G.	N.T.S. 94-E	PL. NO.: 10
DRAWN BY: O.A.Y.	DATE: 11/7/72	SCALE: 1" = 400'
TRACED BY:	DATE: 31/7/72	
REVISIONS:		FILE NO.:

Department of
 Mines and Geology Resources
 ASSESSMENT DISTRICT
 NO. 3987 M.P. #11

[Handwritten signature]