GEOLOGY, GEOCHEMISTRY, GEOPHYSICS

WHITEMAN 1, 2, III CLAIMS
VERNON MINING DIVISION

Map 82L-4E
(latitude 50° 13' N, longitude 119° 38' W)

Owner: Kennco Explorations (Canada) Ltd.

Operator: Essex Minerals Company

Consultant: J. R. Woodcock Consultants Ltd.

Report by J. R. Woodcock, July 1979

PART 2 of 2

7397

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WHITEMAN CREEK

INTRODUCTION

Anomalous molybdenum or uranium values in stream geochemistry have led several companies to the Whiteman Creek area over the past fifteen years. In 1964 Southwest Potash Corporation staked claims in the vicinity of the present Whit claims. In 1966 Noranda Mines Ltd. staked claims 13 km west of the mouth of Whiteman Creek, and in 1967 followed this up with soil sampling. In 1973 Kennco Explorations (Western) Ltd. acquired an anomalous area 14 km west of the mouth of Whiteman Creek, made a brief field examination, and allowed the claims to lapse. From 1974 to 1977, Canadian Occidental Petroleum Ltd. staked ground as a result of a regional geochemical survey. The work done by Occidental and recorded for assessment work is described in reports 5692, 6052 and 6572 by C. C. Macdonald. In 1978 Cominco Ltd. acquired ground south and west of the Occidental holdings. Old claim posts indicate that Cominco Ltd. had also previously staked claims in 1970.

In 1977 the staff of Kennco Explorations (Western) Ltd. reappraised the previous work, re-examined the area, and staked the claims covering the west end of the Whiteman Creek Stock. In 1977 Mr. Steve Gower mapped the anomalous area and conducted a soil geochemical survey. This work revealed some anomalous values in molybdenum and fluorine and resulted in recommendations for further work.

In 1979 J. R. Woodcock did additional mapping and rock geochemistry on the claims and recommended an induced polarization survey. Phoenix Geophysics Ltd. was contracted to do the survey.

The existing flagged grid (10 km) from the Kennco geochemical survey was used for the induced polarization survey. The grid measurements are slope distances; because the geophysicists preferred slope distances rather than corrected horizontal distances no changes were made. The lines were slashed and extended to the east. The grid lines and the baseline were tied to topographical features by chain and compass surveys along the logging road in the western part of the grid area and up Kennco Creek. The base map thus produced was extended by utilizing expanded overlays of 20-chain aerial photographs (B.C. 4196--102 and 045).

For the rock geochemistry, 60 samples of about two kg were taken from available outcrops and submitted to Bondar-Clegg & Co. Ltd. for geochemical analyses for Pb, Zn, Mo, Mn, F. Half of the samples were also analyzed for W.

LOCATION AND ACCESS

Whiteman Creek, 20 km in length, drains eastward into Okanagan Lake. A logging road along the north side of the Creek gives access to the claims.

The center of the Whiteman claims is at latitude 50° 13' N, longitude 119° 38' W. It is 10 km west of Okanagan Lake and 30 km southwest of Vernon, on map sheet 82 L-4E. The claims are in the Vernon Mining Division.

CLAIM DATA

TABLE I

Claim Data

Name	Record Number	Record Date	Assessment Credits (pre 1979)	Recorded Owner
Whiteman 1	329 (5)	May 30/77	4	Kennco Explorations (Canada) Ltd.
Whiteman 2	339 (6)	June 14/77	3	
Whiteman III	629	June 13/79	0	John R. Woodcock
Whit 1 to Whit 18	18010 (P) to 18027 (P)	Nov. 5/74	5	Can. Occidental Petroleum Ltd.
Whit 19	35 (11)	Nov. 3/75	5	" "
Whit 20, 21	176 (11), 177 (11)	Nov. 8/76	3	" "
Whit 22, 23	337 (6), 338 (6)	June 10/77	3	" "
Lock 1 to 4	593 (1) to 596 (1)	June 25/79	0	Cominco Ltd.
D & C 1 to 4	505 (8) to 508 (8)	Aug. 8/78	0	Charles Brett of Kelowna

The Whiteman 1 (6 units) and Whiteman 2 (18 units) claims were staked on May 28, 1977 and June 7, 1977 respectively by Gordon Davies and Gordon Kain for Kennco Explorations (Canada) Ltd. The two claims were grouped into the Whiteman #1 Group on May 23, 1978 and a geochemical report by R. L. Stevenson was submitted in 1978 for assessment work.

An extra nine units (Whiteman III claim) was staked by Paul Stanneck, agent for John R. Woodcock, west of Whiteman 2 on June 12, 1979 and recorded on June 13, 1979. This claim was added to the Whiteman Group on July 20, 1979.

GEOLOGY

Whiteman Creek crosses and exposes acid intrusive rocks as a narrow east-west window within flat-lying Tertiary volcanics of the Kamloops Group. Much of the intrusive is mapped as part of an upper

Mesozoic pluton, equivalent in age to the Coast Range plutons. A. G. Jones (1959) has named this rock granodiorite and this terminology is used as a field name in this present report. The rock is leucocratic, contains hornblende, abundant quartz, white feldspar, and minor biotite. It displays minor lineation of mafic minerals.

West of the Whiteman Creek Stock and adjacent to or in contact with it, is an area of a fairly equi-granular granodiorite (field identification) composed of feldspar, quartz, and biotite. Locally (e.g. sample W77) it has abundant pyrite and is highly sericitized leaving the quartz crystals as eyes within a sericitized ground mass. In some places (e.g. sample W80) the sericitized rock is bleached (probably by supergene leaching) to a friable white rock. These alteration types appear to be restricted in extent. Most exposures have very low pyrite content plus some epidote and some chloritization. It is probably part of the Mesozoic batholith.

The Whiteman Creek Stock, which intrudes the granodiorite, is generally regarded as Tertiary and has been called syenite. A date of 50 M.Y. has been reported. At its west end it includes four rock types. The prevalent rock is a pink porphyry which is composed mainly of large (about 1 cm long) orthoclase phenocrysts and, for this report, is field named "orthoclase porphyry". The matrix is pink to white, fine-grained phaneritic rock consisting of feldspar and quartz and resembling aplite. Generally, the orthoclase phenocrysts are abundant enough to form more than 50% of the rock. In addition to the orthoclase, the porphyry contains other small phenocrysts. These include minor quartz and biotite flakes (generally in concentrations).

Two unusual features characterize most of the orthoclase porphyry. White pockets of completely sericitized feldspar (?) are conspicuous in most of the relatively fresh rock. In places these occur in the center of the orthoclase crystals. They were noted and described by Mr. Steve Gower in his company report. The sharp contact with a relatively fresh rim and a complete absence in most of the orthoclase phenocrysts may indicate a different composition in the central parts of some of the phenocrysts. The second unusual feature is the abundance of irregular vugs into which small quartz crystals project. Other euhedral crystals associated with these vugs include a light, yellowish green mineral which may be axinite. Purple fluoride crystals also occur within or adjacent to some of the vugs. Concentrations of biotite crystals are generally associated with the vuggy patches and goethite linings in some of the vugs indicate that disseminated pyrite also occurred with the disseminated biotite.

The second rock type, forming only a small portion of the Whiteman Creek Stock, is herein called monzonite porphyry. It resembles the matrix of the orthoclase porphyry. It is the latite porphyry of Macdonald's report.

Another phase of the stock is the "mixed rock type" which has been called breccia. This rock type includes the orthoclase porphyry and the monzonite porphyry. Observations in weathered exposures and cliffs show that, in places, some of the pieces of aplite have abundant pyrite whereas other adjacent pieces have only negligible pyrite. However, in some places the pieces of orthoclase porphyry appear to be merely concentrations of orthoclase phenocrysts within the monzonite. Although the transition between the rock types within this so-called breccia is sharp, knife-edge contacts were not seen. Also, no voids are present. The writer suggests that possibly the mixing took place late in the magmatic stage rather than by forceful intrusion of two different rock types, each in the solid state.

The third rock type of the Stock is "latite porphyry", a rock with dark grey aphanitic matrix and large white feldspar phenocrysts. It crops out along the east side of Kennco Creek. A second exposure of a similar rock type, but highly altered to sericite, occurs beside or within the Whiteman Creek Stock near the bridge (sample W134).

Some outcrops of rhyolite with quartz phenocrysts (unit 8) are found south of Kennco Creek. This has also been included in the Whiteman Creek Stock. However it could be an extrusive rock.

The western part of the Whiteman Creek Stock intrudes Mesozoic granodiorite on its north side and volcanic rocks on its west side and it is probably overlain by Kamloops volcanic rock on its south side. Abundant epidote, both disseminated and along fractures, in the adjacent intruded rocks may be contact metasomatism related to the Whiteman Creek Stock. Such epidote occurs within the intruded granodiorite and the intruded volcanic rocks.

About 1.6 km west of the Whiteman Creek Stock, the dark grey volcanics containing abundant epidote and minor pyrite change quite abruptly into barren unaltered dark grey volcanics. These relatively unaltered volcanics are probably part of the Kamloops Group.

The Pleistocene deposits in the area include outwash deposits, mostly sand, which occur around the junction of Kennco Creek and Whiteman Creek. In addition, deep deposits of boulder till occur in the upper slopes south of Whiteman Creek and are exposed in the road cuts of the logging roads.

ALTERATION AND MINERALIZATION

Secondary sericite and abundant pyrite (mainly indicated by limonite type) occur together as intense hydrothermal alteration in an area about one half mile in diameter. This includes much of the breccia or mixed rock exposures along the east side of Kennco Creek and some of the highly fractured volcanic rock exposed in the logging road west of Kennco Creek, an exposure of granodiorite west of Kennco Creek, and exposures of intrusive rocks along Kennco Creek. The alteration product sericite is based on field identification; however this appears to have been verified in some of the petrographic studies done by Mr. Steve Gower. In places, sericite forms veins up to two cm thick and these cut the highly sericitized rock and also form local stockwork. These could be mistaken for quartz in a cursory examination.

A quartz stockwork occurs in some of the latite porphyry east of Kennco Creek. The quartz veinlets resemble what the writer generally calls "epithermal type quartz veinlets". The veinlets can be discontinuous--they terminate abruptly, horsetail out, are locally en echelon, and in places have a wispy appearance. The quartz is dark grey.

Manganese oxide occurs within the Whiteman Creek Stock, generally outside of the zone of intense pyrite alteration. This appears as dark coating on fracture surfaces within the Whiteman Creek Stock. Some of it has been weathered and transported to cement stream gravels. Exposures of cemented stream gravels can be seen for a length of 40 meters along the logging road near the bridge and also at the junction of Kennco Creek, 0.7 km upstream from Whiteman Creek.

Hematite coats the surface of loose rock within the Whiteman Creek Stock, east of Kennco Creek. This is generally confined to talus and is not abundant within the outcrop source of the talus. This is probably a surface alteration of jarosite-rich limonite.

GEOCHEMISTRY

As noted above, the Whiteman claims cover the western part of the Whiteman Creek Stock and the intruded regional host rocks. Mapping described in this report was confined to this general area and concentrated on the alteration zones which lie along the western margin of the Whiteman Creek Stock. Although there does appear to be a geochemically anomalous area around the lower reaches of Kennco Creek, anomalous values are also found along the upper reaches of Kennco Creek. Whether these are two separate anomalous areas or whether there is one general linear anomalous zone extending along Kennco Creek and lying in the vicinity of the western margin of the Whiteman Creek Stock is not known. There are insufficient outcrops in the upper reaches of Kennco Creek to allow a definitive statement.

In addition to the rock samples taken near the anomalous zone of lower Kennco Creek, several rock chip samples were taken eastward into the Whiteman Creek Stock and westward into the volcanic horizons.

In addition to the rock geochemistry done by J. R. Woodcock Consultants Ltd., assessment work reports by Kennco Explorations (Western) Ltd. and by Canadian Occidental Petroleum Ltd. give some rock geochemistry results. The samples taken eastward along the Whiteman Creek Road and the reported samples of Kennco and of Occidental have been plotted on one small scale map (1:10,000) and included in the report for the purpose of more accurately establishing background values. This smaller scale map does not duplicate the values of the more detailed sampling around lower Kennco Creek as these are presented on larger scale maps (1:5,000).

The metal which presents the most uniform anomaly is manganese. This displays a pronounced low near the lower parts of Kennco Creek. This low is at least 500 meters wide and 700 meters long and is co-extensive with the eastern half of the interpreted pyrite high. Additional low manganese values also occur in the western part of Whiteman Creek Stock near the upper reaches of Kennco Creek.

Manganese values in the volcanic rock to the west of the anomalous zone and in the Whiteman Creek Stock to the east of the anomalous zone are generally in the order of 400 to 500 ppm. However, immediately east of the anomalous zone, manganese stain can be seen in the intrusive rocks of the Stock and it is in this area that manganese values are generally 800 to 900 ppm. Insufficient outcrops are available for sampling to be able to determine whether or not this represents part of a manganese halo.

The zinc geochemistry corresponds quite closely to the manganese geochemistry, with the zinc low (values generally less than 20 ppm) occurring in the lower reaches of Kennco Creek. Similar low zinc values are scattered throughout the rock geochemical samples reported by Occidental in the Whiteman Creek Stock; however these do not seem to form a persistent low area. Noticeable are the lack of any anomalous high values in zinc and the general low background values throughout the region.

Lead values are erratic and no reliable trend can be interpreted with the present data.

Molybdenum values appear to result from a rock type rather than specific mineralized zones. The values within rocks of the Whiteman Creek Stock vary from 3 to 30 ppm with an average from the present study of 10 ppm. The values in the older rock units (the volcanics and the Mesozoic granodiorite) range from 2 to 8 ppm and average 3.4 ppm.

Tungsten analyses were only obtained for samples within the vicinity of the altered area. These values generally range from 5 to 25 ppm for rocks of the Whiteman Creek Stock (including those within the altered zone and those within the area of fresh rocks). The few values obtained for rocks outside of the Whiteman Creek Stock range from 3 to 8 ppm. There is some correlation of tungsten and molybdenum values. However there is no correlation with the Kennco Creek alteration zone. The tungsten samples were re-run in a second laboratory; the results gave background values (2 to 8 ppm) with only one slightly high value (sample W92--12 ppm).

Reported fluoride values range from 187 to 2550 ppm. Although there is no persistent trend, most of the high values (> 1000 ppm) occur within the interpreted pyritic zone. Samples taken eastward along the access road (within the Whiteman Creek Stock) are within relatively unaltered rock and are uniformly lower than average.

GEOPHYSICAL WORK

The lines from a prior geochemical survey were slashed to make them passable for induced polarization. A control survey was made along the logging access road and along Kennco Creek to tie in the grid lines more accurately. A magnetometer survey was made by J. R. Woodcock Consultants Ltd. and an induced polarization survey by Phoenix Geophysics Ltd. The induced polarization survey will be the subject of a separate report.

The results of the flux gate magnetometer survey are presented in Figure 4. Two features should be noted. These include a low magnetic response which extends along Kennco Creek a short distance and expands on its northern end in an easterly and a westerly direction. The westerly expansion of the low is more pronounced; this could possibly be caused by some alteration along an east-west shear zone.

In addition to this somewhat irregular low, there is a high in the western part of the grid area. It is partially delimited by the work on lines 20 N and 24 N. The magnetic high in this area corresponds partly with an increase in the metal factor and a decrease in resistivity. Magnetite bearing volcanic rock might account for both types of anomalies.

J R Woodcock

REFERENCES

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Gower, S. C.; 1977; Whiteman prospect-progress report: Company report for Kennco Explorations (Western) Ltd.

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Macdonald, Colin C.; 1975; Geology and geochemistry of the Whit claim group: Company report for Canadian Occidental Petroleum Ltd.; Assessment Report # 5692.

BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: 985-0681 TELEX 04-352667

SEMI-QUANTITATIVE ANALYSIS FOR

Cu,Pb,Zn,Mo,Ag,Ni,Co,Cd,Mn

1. Samples dried in infra red ovens.

2a. ROCKS: all material passes through a primary and secondary crushed to approximately -8 mesh. Using a 3/8" splitter, all material is scientifically split down to about 250-300 gms. Analytical split is pulverized in a vibratory grinding mill to >50% -150 mesh.

2b. SOILS/SEDS: are screened (-80 mesh unless otherwise directed) and rolled simply.

2c. DRIED LAKE BOTTOM SEDIMENTS AND BOG SAMPLES: are disaggregated and sieved to -80 mesh or as directed.

3. Weighed on 0.5 gm.

4. Digested 3 hours in LeFort Aqua Regia.

5. Bulked to 20% acid concentration, homogenized, and allowed a uniform settling time.

6. Analyzed by atomic absorption in constant comparison with both synthetic and matrix standards.

7. Results permanently recorded on chart paper.

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APPENDIX II

COSTS

Wage Costs

(a) Establish and Survey Grid:		
P. Stanneck: May 18 to 31 June 1, 8, 9, 10, 13	19 days @ $105	$ 1,995.00
Statutory Holiday	1 day @ $105	105.00
D Miller: May 18 to 31 June 1, 7, 9, 10	18 days @ $67.50	1,215.00
Statutory Holiday	1 day @ $67.50	67.50
D. Gorc: June 13	1 day @ $105	105.00
Statutory Holiday	1 day @ $105	105.00
(b) Assist with IP Survey:		
D. Miller: June 3 to 7	5 days @ $67.50	337.50
P. Stanneck: June 3-6, 8	5 days @ $105	525.00
(c) Magnetometer Survey:		
D. Miller: June 14, 15	2 days @ $67.50	135.00
D. Gorc: June 12, 14, 15, 20	4 days @ $105	420.00
(d) Geology and Geochemistry:		
J. R. Woodcock May 16 to 20, 24 June 7, 8, 11 May 31, June 1, 4, 5, 25, 26, 28 (½ days)	12½ days @ $325	4,062.50
Chong (draftsman): June 4-July 19	38½ hrs. @ $9.00	346.50
D. Gorc: May 16-22, 29,30,31 June 4, 5, 6, 8, 16	15 days @ $105	1,575.00
D. Miller: June 16	1 day @ $67.50	67.50

Total Wage Costs $11,061.50

Food and Accommodation		
Motel Costs 86 man days (includes 12 man days for IP crew) = $12.35/day	$ 1,061.63	
Food Costs ($8.89/day)	764.77	$ 1,826.40
Maps & Reproductions		364.43
Geochemical Analyses	996.31 119.40	1,115.71
Miscellaneous Supplies		176.65
Vehicle 20% allowable		
Redhawk Rental (Jimmy)		
33 days @ $17.85	589.05	
4389 km @ 8¢	351.12	251.76
gas	318.64	~~1,258.81~~
Total		14796.45 ~~$15,803.50~~
~~20% Allowable~~ =		~~$ 3,160.70~~

J. R. Woodcock

J. R. WOODCOCK

July 31, 1979


LCP
WHITEMAN III
LCP
WHITEMAN 2
WHITEMAN I
WHITEMAN CREEK ROAD
WHITEMAN CREEK
KENNCO CREEK
LEGEND
Passable road
Overgrown road
Creek
Survey station
PART 2 of 2
7397
ESSEX MINERALS COMPANY
WHITEMAN PROPERTY
SURVEY STATIONS
0 500 1000 FEET
0 100 200 300 METRES
J. R. WOODCOCK CONSULTANTS LTD.
DATE : JUNE 1979
FIGURE Nº. 2

ESSEX MINERALS COMPANY

WHITEMAN PROPERTY

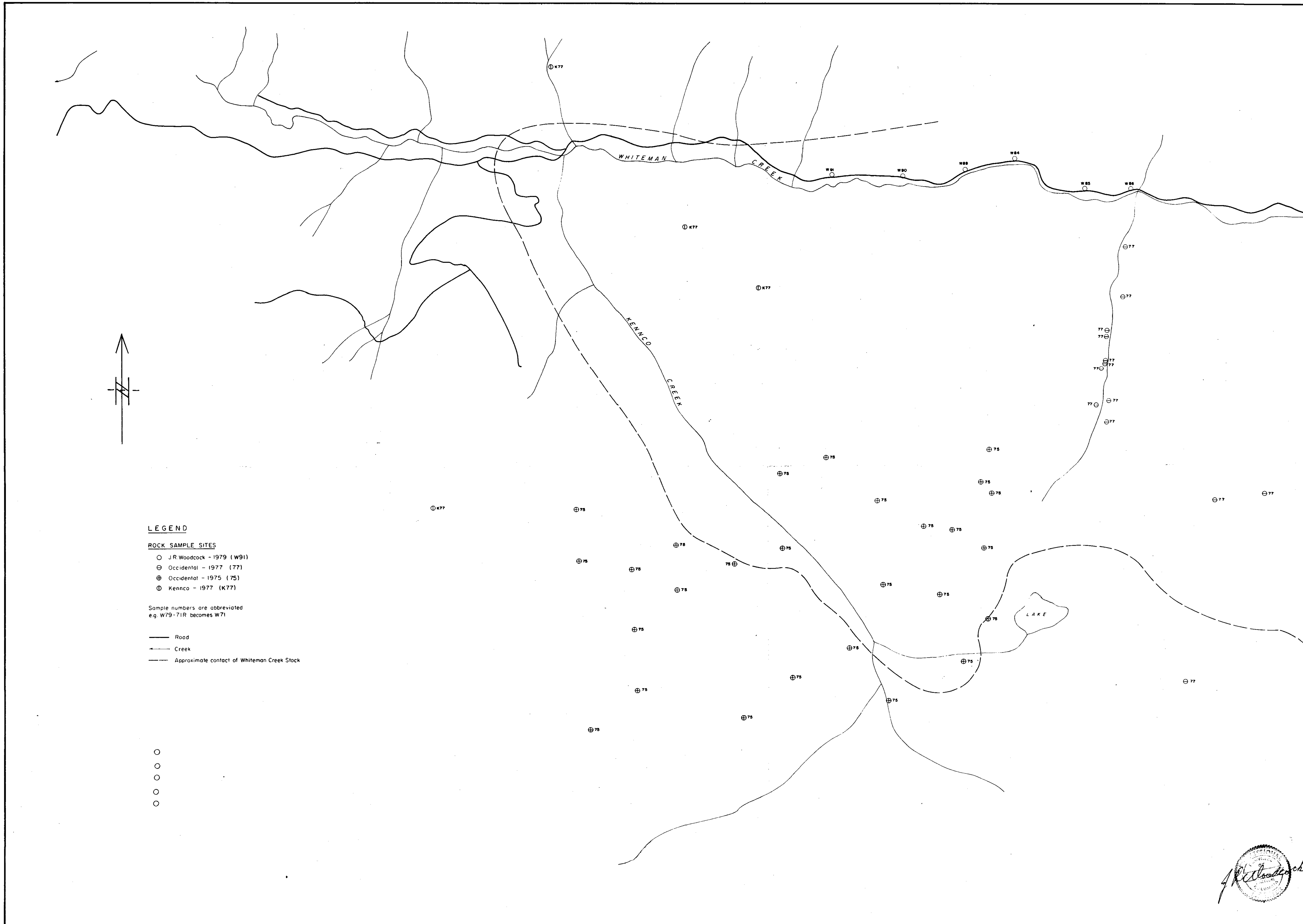
GEOLOGY

J. R. WOODCOCK CONSULTANTS LTD.

DATE : JUNE 1979 FIGURE Nº. 3


LCP
WHITEMAN III
LCP
WHITEMAN 2
WHITEMAN 1
WHITEMAN CREEK ROAD
WHITEMAN CREEK
L32N
L28N
L24N
L20N
L16N
L12N
L8N
L4N
BASE LINE
KENNCO CREEK
LEGEND
Passable Road
Overgrown Road
Creek
Survey Station
Grid
NOTE: Contour Interval 500 γ
Arbitrary datum
PART 2 of 2
7397
ESSEX MINERALS COMPANY
WHITEMAN PROPERTY
MAGNETOMETER SURVEY
0 500 1000 FEET
0 100 200 300 METRES
J. R. WOODCOCK CONSULTANTS LTD.
DATE: JUNE 1979
FIGURE Nº. 4

LCP
WHITEMAN III
WHITEMAN 2
WHITEMAN 1
WHITEMAN CREEK ROAD
WHITEMAN CREEK
KENNCO CREEK
LEGEND
Passable Road
Overgrown Road
Creek
Rock Sample
Rock Specimen only
Survey Station
SAMPLE NUMBERS ARE ABBREVIATED
e.g. W79-71R BECOMES W71
K Kennco Samples
PART 2 of 2
7397
ESSEX MINERALS COMPANY
WHITEMAN PROPERTY
ROCK GEOCHEMISTRY
SAMPLE NUMBERS
0 500 1000 FEET
0 100 200 300 METRES
J. R. WOODCOCK CONSULTANTS LTD.
DATE : JUNE 1979
FIGURE Nº. 5



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ESSEX MINERAL COMPANY

WHITEMAN PROPERTY

ROCK GEOCHEMISTRY SAMPLE NUMBERS

0 1000 2000 FEET
0 200 400 600 METRES

J. R. WOODCOCK CONSULTANTS LTD.

DATE : JUNE 1979 FIGURE Nº 5a


WHITEMAN III
LCP
WHITEMAN 2
WHITEMAN I
WHITEMAN CREEK ROAD
WHITEMAN CREEK
KENNCO CREEK
LEGEND
Passable Road
Overgrown Road
Creek
Rock Sample
Rock Specimen only
Survey Station
SAMPLE NUMBERS ARE ABBREVIATED
e.g. W79-71R BECOMES W71
440 Manganese value in ppm
≤50
51 - 100
101 - 200
201 - 400
401 - 800
>800
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ESSEX MINERALS COMPANY
WHITEMAN PROPERTY
ROCK GEOCHEMISTRY
MANGANESE
0 500 1000 FEET
0 100 200 300 METRES
J. R. WOODCOCK CONSULTANTS LTD.
DATE : JUNE 1979
FIGURE No. 6

WHITEMAN CREEK
KENNCO CREEK
LAKE
805
590
550
386
367
605
475
LEGEND
ROCK SAMPLE SITES
J.R. Woodcock - 1979
Occidental - 1977
Occidental - 1975
Kennco - 1977
Sample numbers are abbreviated
e.g. W79-71R becomes W71
Road
Creek
Approximate contact of Whiteman Creek Stock
≤ 50 ppm
51 - 100
101 - 200
201 - 400
401 - 800
> 800
PART 2 of 2
7397
ESSEX MINERAL COMPANY
WHITEMAN PROPERTY
ROCK GEOCHEMISTRY
MANGANESE
0 1000 2000 FEET
0 200 400 600 METRES
J. R. WOODCOCK CONSULTANTS LTD.


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LEGEND
Passable Road
Overgrown Road
Creek
Rock Sample
Rock Specimen only
Survey Station
SAMPLE NUMBERS ARE ABBREVIATED
e.g. W79-71R BECOMES W71
11,62 Lead value in ppm., Zinc value in ppm.
≤ 25
26 - 50
51 - 100
101 - 200
LCP
WHITEMAN III
WHITEMAN 2
WHITEMAN 1
WHITEMAN CREEK ROAD
WHITEMAN CREEK
KENNCO CREEK
ESSEX MINERALS COMPANY
WHITEMAN PROPERTY
ROCK GEOCHEMISTRY
LEAD & ZINC
0 500 1000 FEET
0 100 200 300 METRES
J. R. WOODCOCK CONSULTANTS LTD.
DATE : JUNE 1979
FIGURE NR. 7


WHITEMAN CREEK
KENNCO CREEK
LAKE
LEGEND
ROCK SAMPLE SITES
J.R. Woodcock - 1979
Occidental - 1977
Occidental - 1975
Kennco - 1977
Sample numbers are abbreviated e.g. W79-71R becomes W71
Road
Creek
Approximate contact of Whiteman Creek Stock
20,35 Lead value in ppm, Zinc value in ppm
< 25
26 - 50
51 - 100
101 - 200
PART 2 of 2
7397
ESSEX MINERAL COMPANY
WHITEMAN PROPERTY
ROCK GEOCHEMISTRY
LEAD AND ZINC
0 1000 2000 FEET
0 200 400 600 METRES
J.R. WOODCOCK CONSULTANTS LTD.
DATE : JUNE 1979
FIGURE No. 7a

ESSEX MINERALS COMPANY

WHITEMAN PROPERTY

ROCK GEOCHEMISTRY MOLYBDENUM & TUNGSTEN

J. R. WOODCOCK CONSULTANTS LTD.

DATE : JUNE 1979

FIGURE Nº. 8

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ESSEX MINERAL COMPANY

WHITEMAN PROPERTY

ROCK GEOCHEMISTRY
MOLYBDENUM & TUNGSTEN

0 1000 2000 FEET
0 200 400 600 METRES

J. R. Woodcock

J. R. WOODCOCK CONSULTANTS LTD.

DATE : JUNE 1979 FIGURE Nº. 8a


WHITEMAN CREEK ROAD
WHITEMAN CREEK
KENNCO CREEK
LCP
LCP
WHITEMAN III
WHITEMAN 2
WHITEMAN 1
LEGEND
Passable Road
Overgrown Road
Creek
Rock Sample
Rock Specimen only
Survey Station
SAMPLE NUMBERS ARE ABBREVIATED
e.g. W79-71R BECOMES W71
FLUORIDE , ppm
‹ 500
501 - 1000
1001 - 1500
1501 - 2000
2001 - 2500
› 2500
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ESSEX MINERALS COMPANY
WHITEMAN PROPERTY
ROCK GEOCHEMISTRY
FLUORIDE
0
500
1000 FEET
0
100
200
300 METRES
J. R. WOODCOCK CONSULTANTS LTD.
DATE : JUNE 1979
FIGURE Nº. 9

2000
WHITEMAN CREEK
187
187
275
375
345
635
560
1100
950
KENNCO CREEK
625
LAKE
LEGEND
ROCK SAMPLE SITES
J.R. Woodcock - 1979
Occidental - 1977
Occidental - 1975
Kennco - 1977
Sample numbers are abbreviated e.g. W79-71R becomes W71
Road
Creek
Approximate contact of Whiteman Creek Stock
FLUORIDE, ppm
<500
501 - 1000
1001 - 1500
1501 - 2000
2001 - 2500
>2500
PART 2 of 2
7397
ESSEX MINERAL COMPANY
WHITEMAN PROPERTY
ROCK GEOCHEMISTRY
FLUORIDE
0 1000 2000 FEET
0 200 400 600 METRES
J.R. WOODCOCK CONSULTANTS LTD.
DATE : JUNE 1979
FIGURE Nº. 9a


LCP
WHITEMAN III
LCP
WHITEMAN 2
WHITEMAN 1
WHITEMAN CREEK ROAD
WHITEMAN CREEK
KENNCO CREEK
5.46,120
10.6,100
4.76,125
4.84,125
14.2
0.13,150
2.00,160
0.81 185
0.44,180
3.33,135
3.31,145
2.22,160
3.61,165
2.57,185
1.88,160
2.41,170
0.74,175
0.69,160
0.10,150
0.79,165
0.34,190
0.12,125
0.29,190
0.08,130
1.08,130
0.85,200
0.58,190
1.65,170
2.03,160
2.59,170
2.33,150
2.66,160
0.73,150
0.71,155
7.68,125
10.0,85
3.42,95
7.00,115
5.58,95
1.60,150
8.52,105
5.83,135
7.68,140
0.26,195
0.81,180
0.26,235
0.81,180
0.64,195
0.81,210
4.17,120
LEGEND
Passable Road
Overgrown Road
Creek
Rock Sample
Rock Specimen only
Survey Station
SAMPLE NUMBERS ARE ABBREVIATED
e.g. W79-71R BECOMES W71
5.58,95 Sr/Rb, Rb (ppm)
Sr/Rb
<.51
.51 - 1.00
1.01 - 2.00
2.01 - 4.00
4.01 - 8.00
>8.00
PART 2 of 2
7397
ESSEX MINERALS COMPANY
WHITEMAN PROPERTY
ROCK GEOCHEMISTRY
STRONTIUM - RUBIDIUM
0 500 1000 FEET
0 100 200 300 METRES
J. R. WOODCOCK CONSULTANTS LTD.
DATE : JUNE 1979
FIGURE No. 10

PART 2 of 2

7397

ESSEX MINERAL COMPANY

WHITEMAN PROPERTY

ROCK GEOCHEMISTRY
STRONTIUM - RUBIDIUM

J.R. WOODCOCK CONSULTANTS LTD.

DATE : JUNE 1979 FIGURE Nº 10a