840428
Presentation:
King

Project: M490

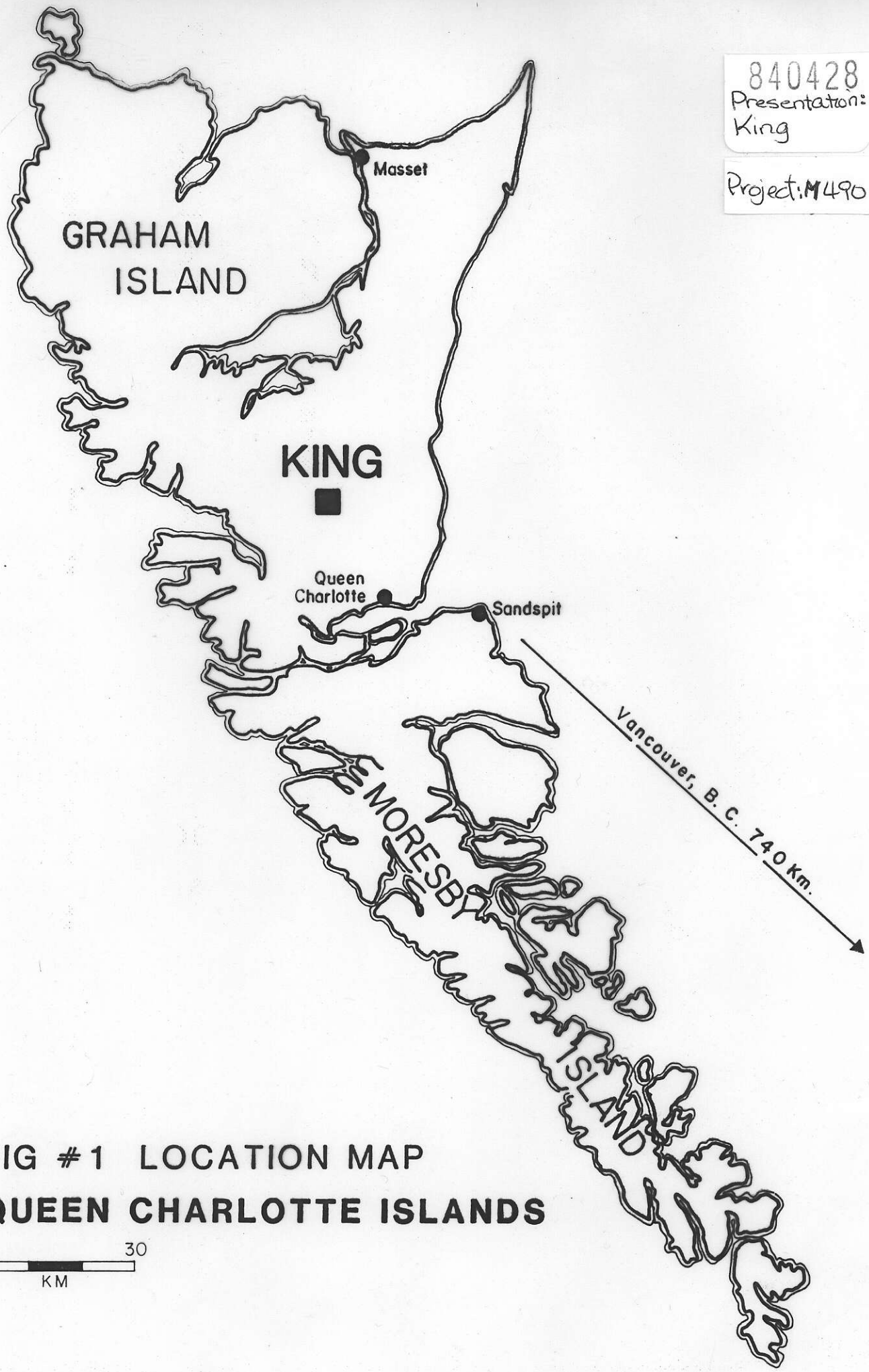


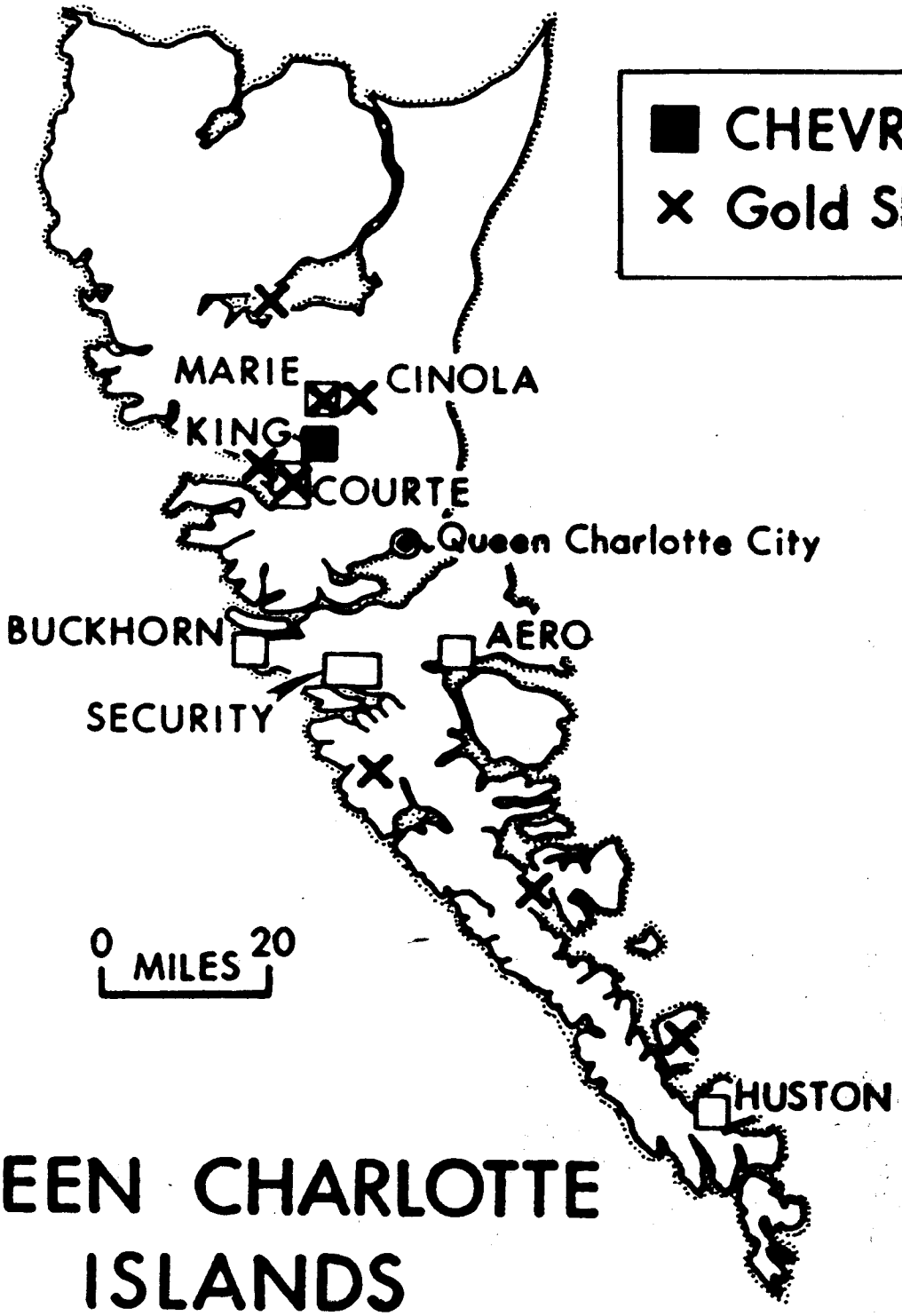
FIG #1 LOCATION MAP

QUEEN CHARLOTTE ISLANDS

QUEEN CHARLOTTE ISLANDS

0 40

Miles



QUEEN CHARLOTTE ISLANDS

KING

1979 PERCUSSION DRILLING REVEALED NO MINERALIZATION WHATEVER UNDER THE OVERBURDEN COVERED EASTERN SECTION OF THE MAJOR Hg-(Au) ANOMALY.

RE-EVALUATION OF THE DATA SUGGEST THAT THE ANOMALY IS TRANSPORTED EASTERLY, SHIFTING EMPHASIS TO THE WESTERN END OF THE PROPERTY.

ANOMALIES IN THIS AREA ARE OPEN AND NEED FURTHER DELINEATION PRIOR TO DRILLING. THEY ARE OF LARGE AREAL EXTENT, HAVE AN EXTREMELY STRONG Hg-As RESPONSE, AND COINCIDE WITH STRONG SILICEOUS ALTERATION IN SEDIMENTARY UNITS.

THESE ANOMALIES, CLOSE TO STRONG FAULTING AND NEAR THE PRESUMED MASSET UNCONFORMITY, CONSTITUTE IMPORTANT TARGETS.

RECOMMENDED PROGRAM FOR 1980, TO INCLUDE 4000 FEET OF DIAMOND DRILLING, WILL COST $240,000. CAN.

KING

GOLD VALUES TO DATE ARE LOW AND SPORADIC.

MERCURY AND ARSENIC

(1) PERSIST TO DEPTH WITH A CONFIGURATION STRONGLY SUGGESTIVE OF LATERAL, STRATIGRAPHICALLY CONTROLLED MOVEMENT.

(2) HAVE SUFFICIENT INTENSITY THAT THEY MUST HAVE A HYDROTHERMAL SOURCE

THE SOURCE MUST BE EITHER:

(1) IN DEEP STRUCTURES AND/OR DYKE COMPLEXES CUTTING THE SEDIMENTS, OR

(2) WITHIN NEARBY TERTIARY VOLCANICS.

1981 EXPLORATION WILL TEST THESE HYPOTHESES BY FURTHER SURFACE WORK AND A MODEST DRILLING PROGRAM (1500 feet) AT A TOTAL COST OF $145,000.

KING - 1980 DRILL PROGRAM SUMMARY

The 1980 BQ diamond drilling may be summarized as follows:

Hole #	Length (m)	Target	Results (Best intersections)
1	214	Highest rock and soil geochemistry Major NNE structure Pyritization and silicification	[Au 20 ppb over 3 m [Hg >2000 ppb over 30 m [As > 800 ppm over 37 m
2	214	Small strong Hg As anomaly Strong EW structure	[Au 50 ppb over 4 m [Hg >5000 ppb over 26 m [As 1000 ppm over 10 m
3	162	Hg anomaly near major NNE structure	[Hg > 5000 ppb over 20 m [As > 1000 ppm over 14 m
4	33	"Upstream" end of major transported Hg-As anomaly close to major NW trending structure	[Hg 750 ppb over 3 m
5	10	As for #4	Nothing anomalous
6	115	Strong Hg anomaly near major NNE structure	Au 40 ppb over 2.5 m Hg/As not anomalous
7	121	Area of strong feldspar porphyry dyking on major NNE and NNW structures	Nothing anomalous
8	84	As for #7	[Au 30 ppb over 3 m [Hg >1000 ppb over 22 m
	953		

BOULDER TRAIN SAMPLES

NUMBER	RADIOMETRIC IN FIELD cps	READING LOW BACKGROUND cps	ASSAY % U_3O_8
WDA - 1	4000	3500	0.259
2	1500	1500	0.075
3	1000	200	0.002
4	4000	1450	0.248
5	2400	2200	0.067
6	1100	200	0.0009
7	1100	400	0.01
8	2000	250	0.007
9	750	220	0.003
10	2000	700	0.028
11	1000	200	0.0009
12	2200	800	0.235
WKO - 1	1500	-	0.058
2	1000	-	0.003
3	-	1300	0.094
4	-	1200	0.075
5	-	500	0.048
6	-	-	-
7	2000	650	0.047
8	2000	300	0.048
9	-	1050	0.59
10	>15,000	>15,000	16.5
11	3500	3500	0.554
12	-	850	0.064
13	4000	1000	0.389
14	15,000	900	0.047
15	5000	1400	0.389
WG-80- 1	2500	200	0.02
2	1500	500	0.081
3	10,000	7000	1.06
4	2500	400	0.096
5	1000	500	0.034
6	700	150	0.002
7	9000	400	0.050
8	700	300	0.008
11	400	300	0.002
13	400	100	0.001
10	6000	2000	0.078
26953	>15,000	-	1.5

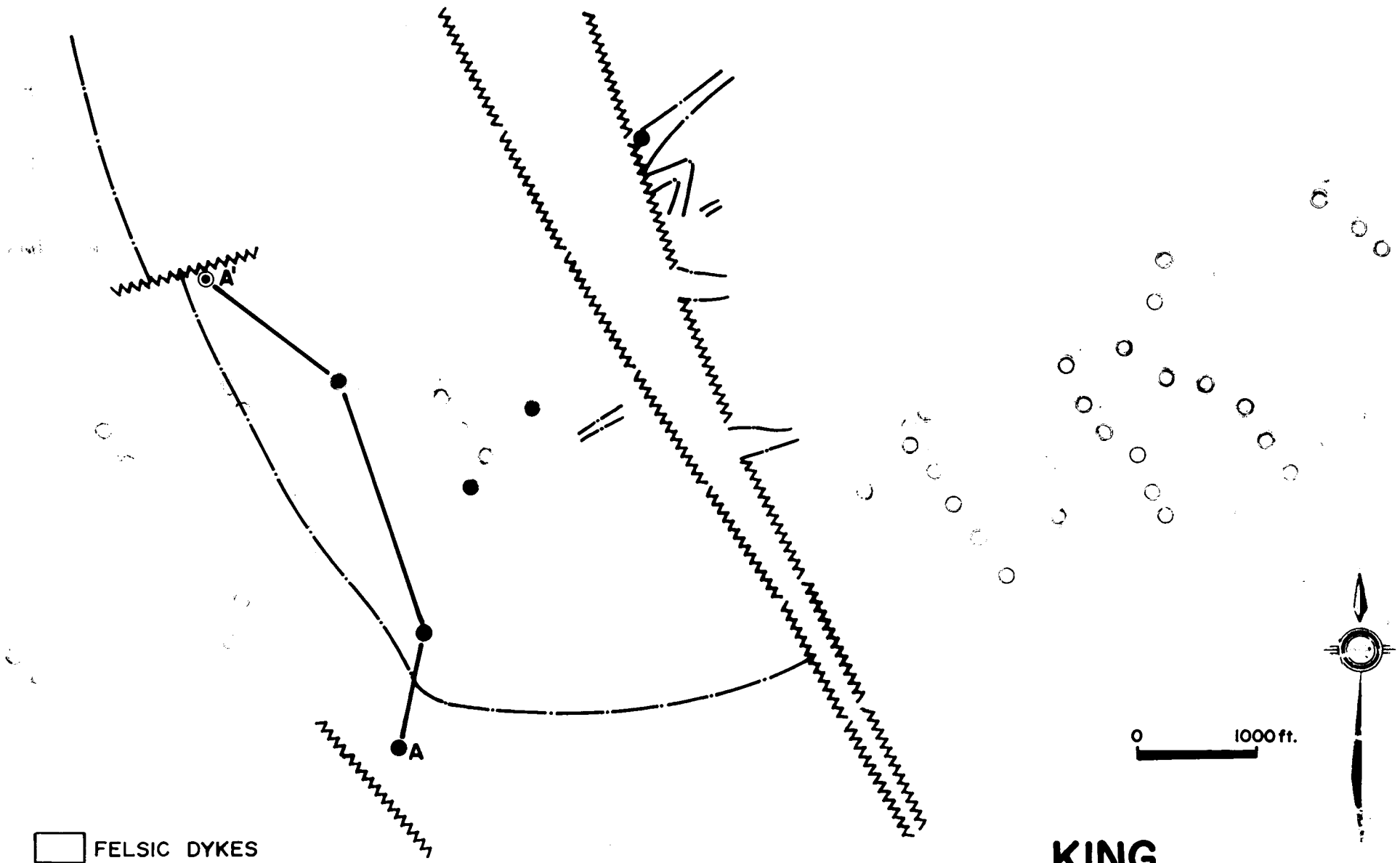
$\bar{X}$ = .104% U_3O_8

σ = .15% U_3O_8

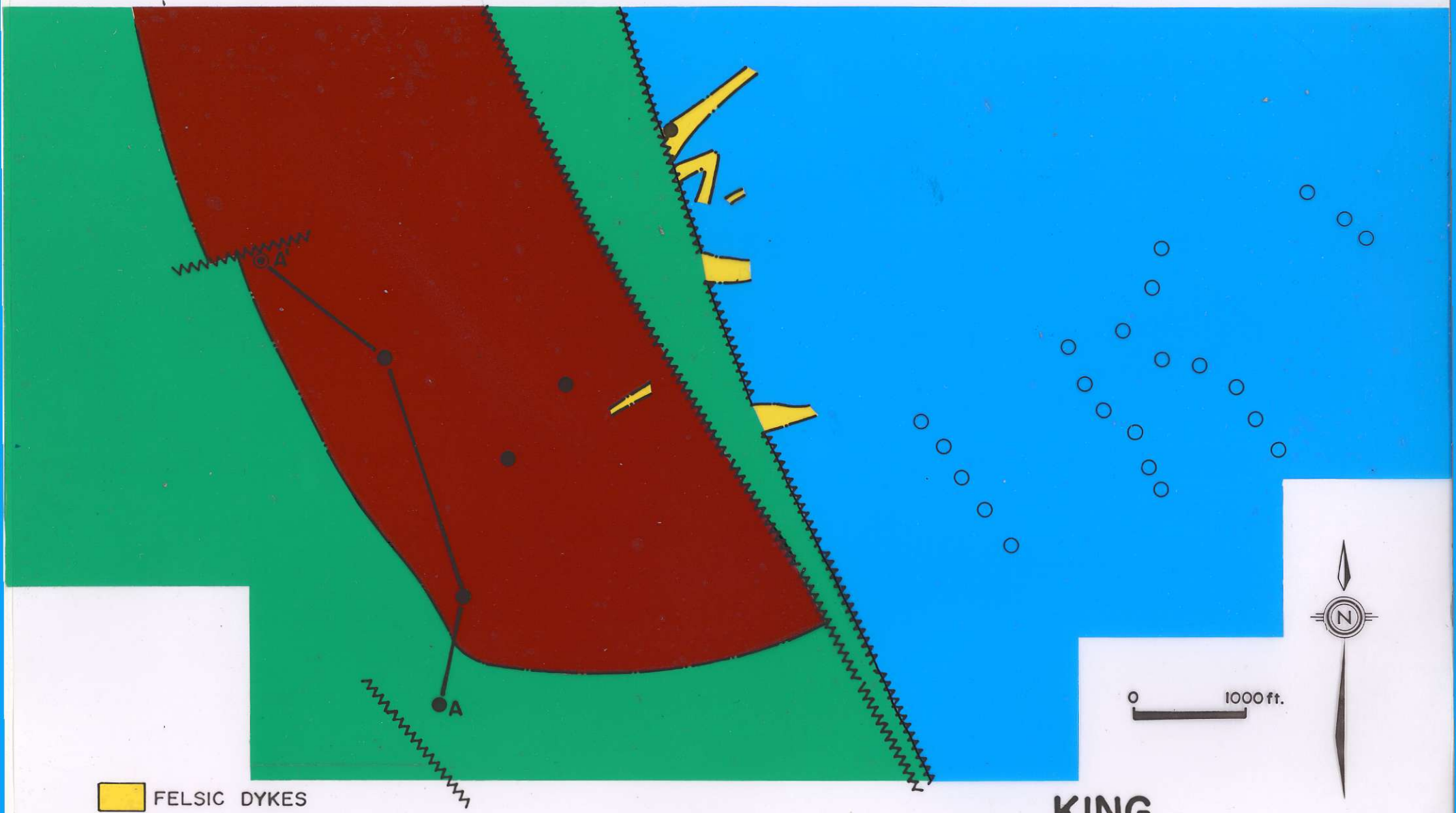
$\bar{X}$ = .26% U_3O_8
σ = .38 U_3O_8

POPULATION > .05% U_3O_8
< 2% U_3O_8

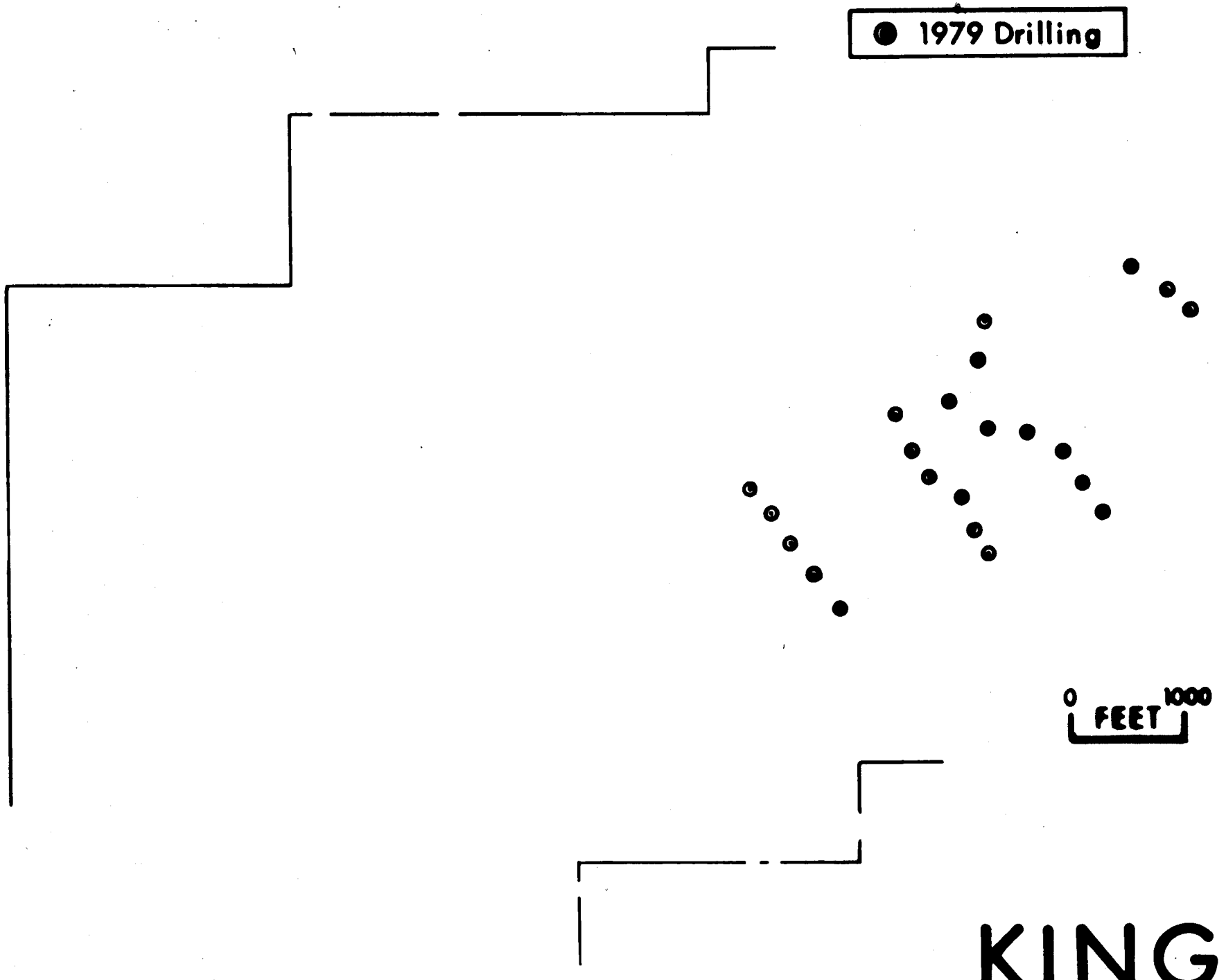
Population did not include sample greater than 1% U_3O_8

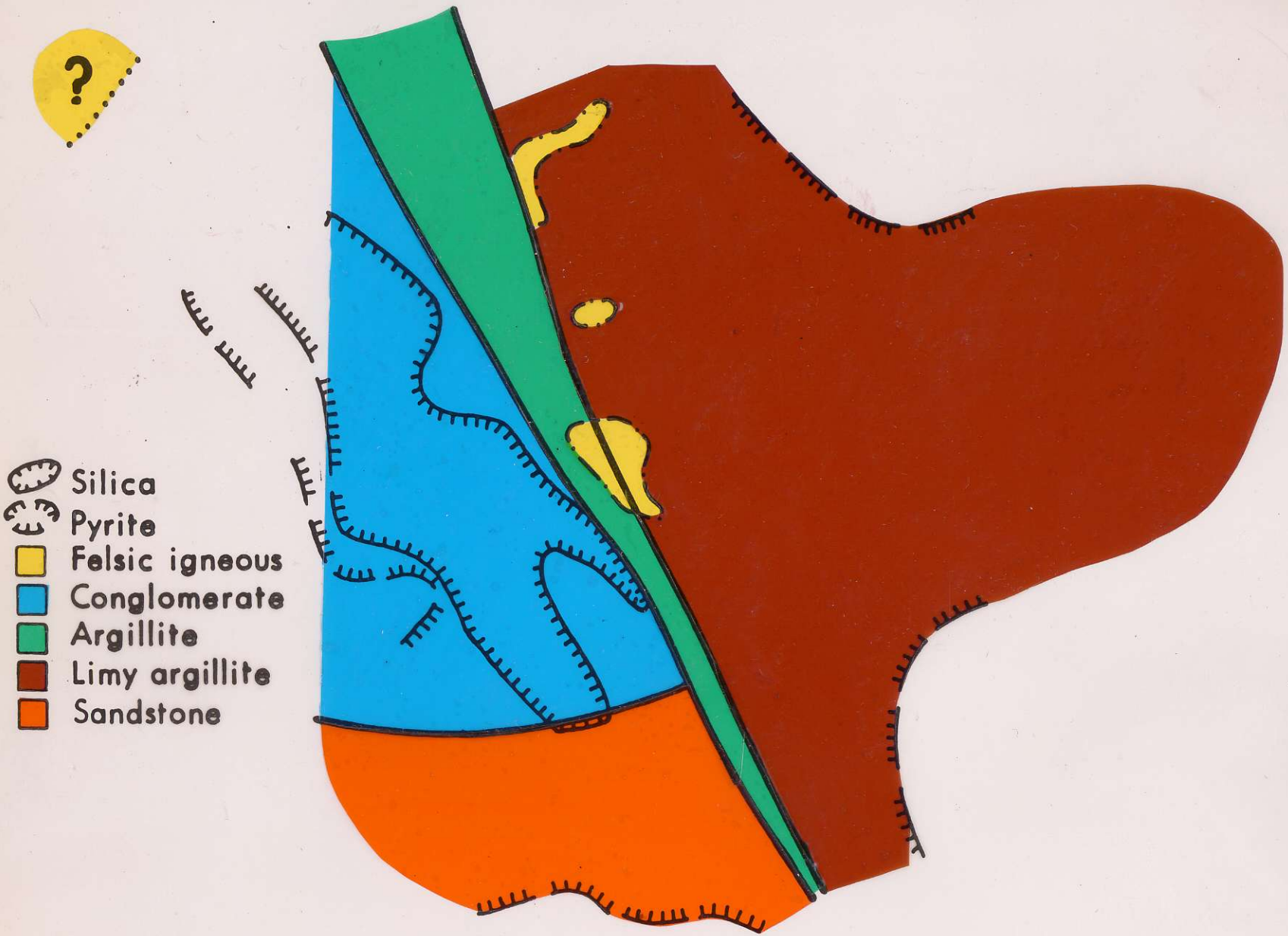


KING
GEOLOGY

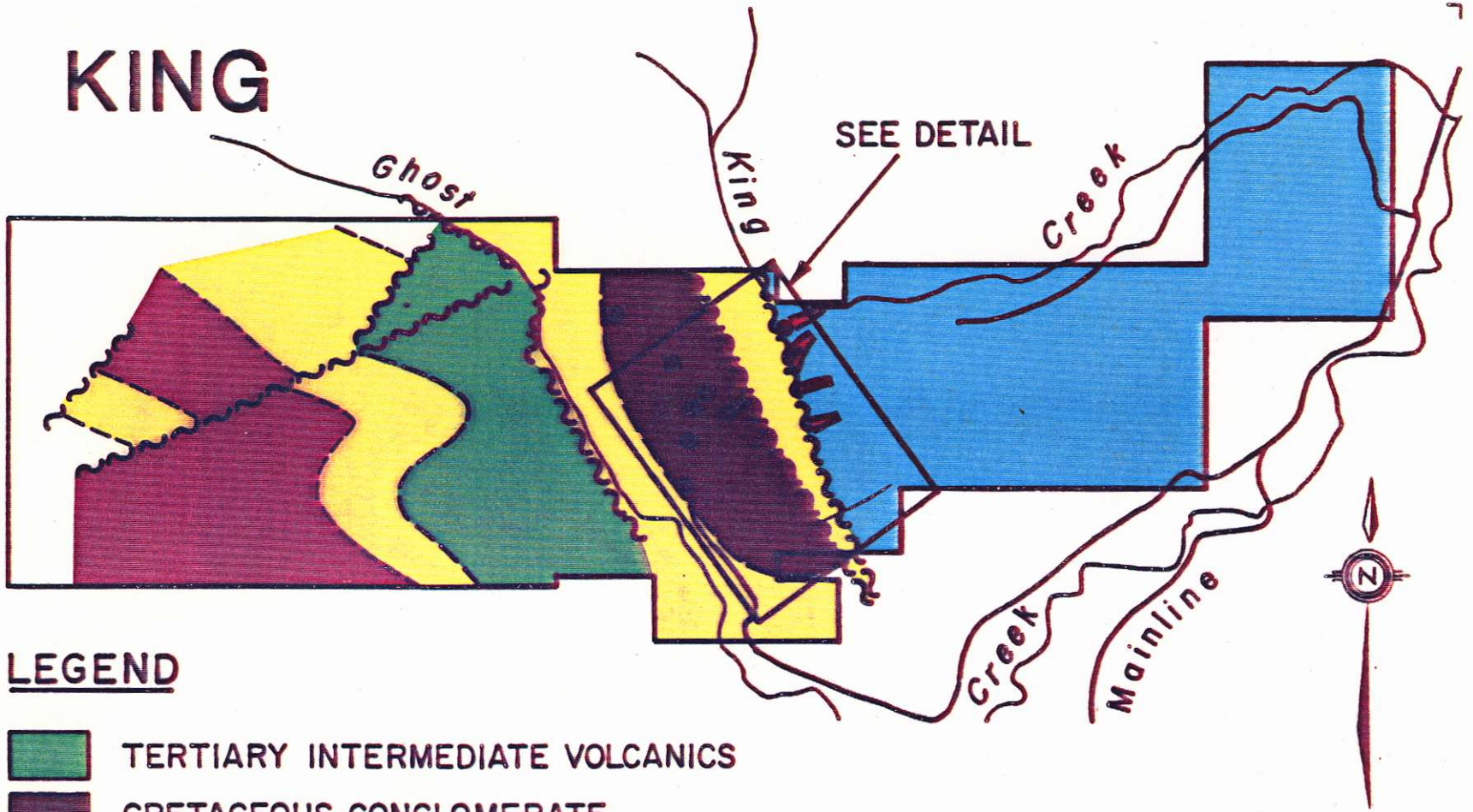


KING
GEOLOGY


1979 Drilling
0
FEET
1000
KING


?
Silica
Pyrite
Felsic igneous
Conglomerate
Argillite
Limy argillite
Sandstone

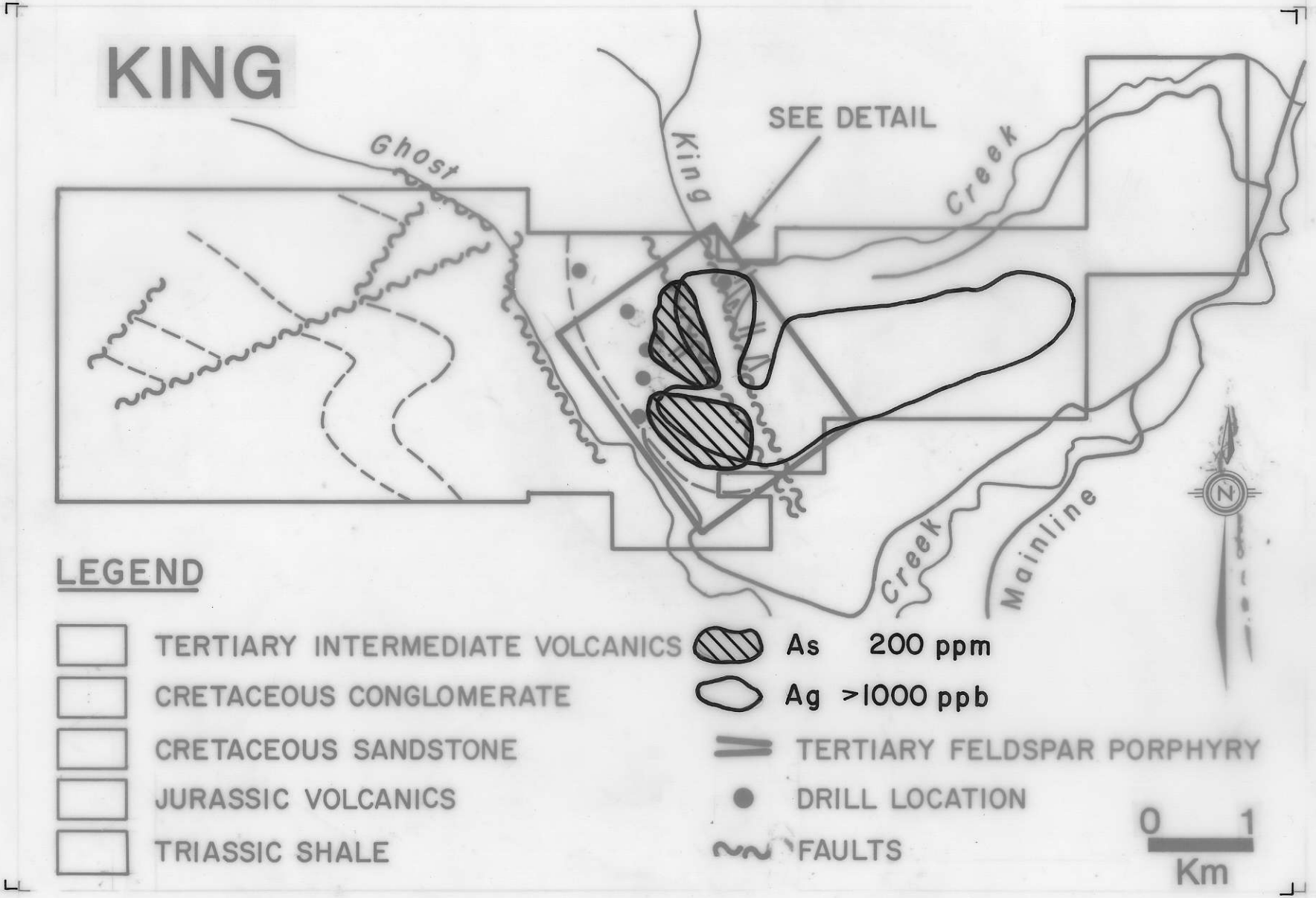
KING

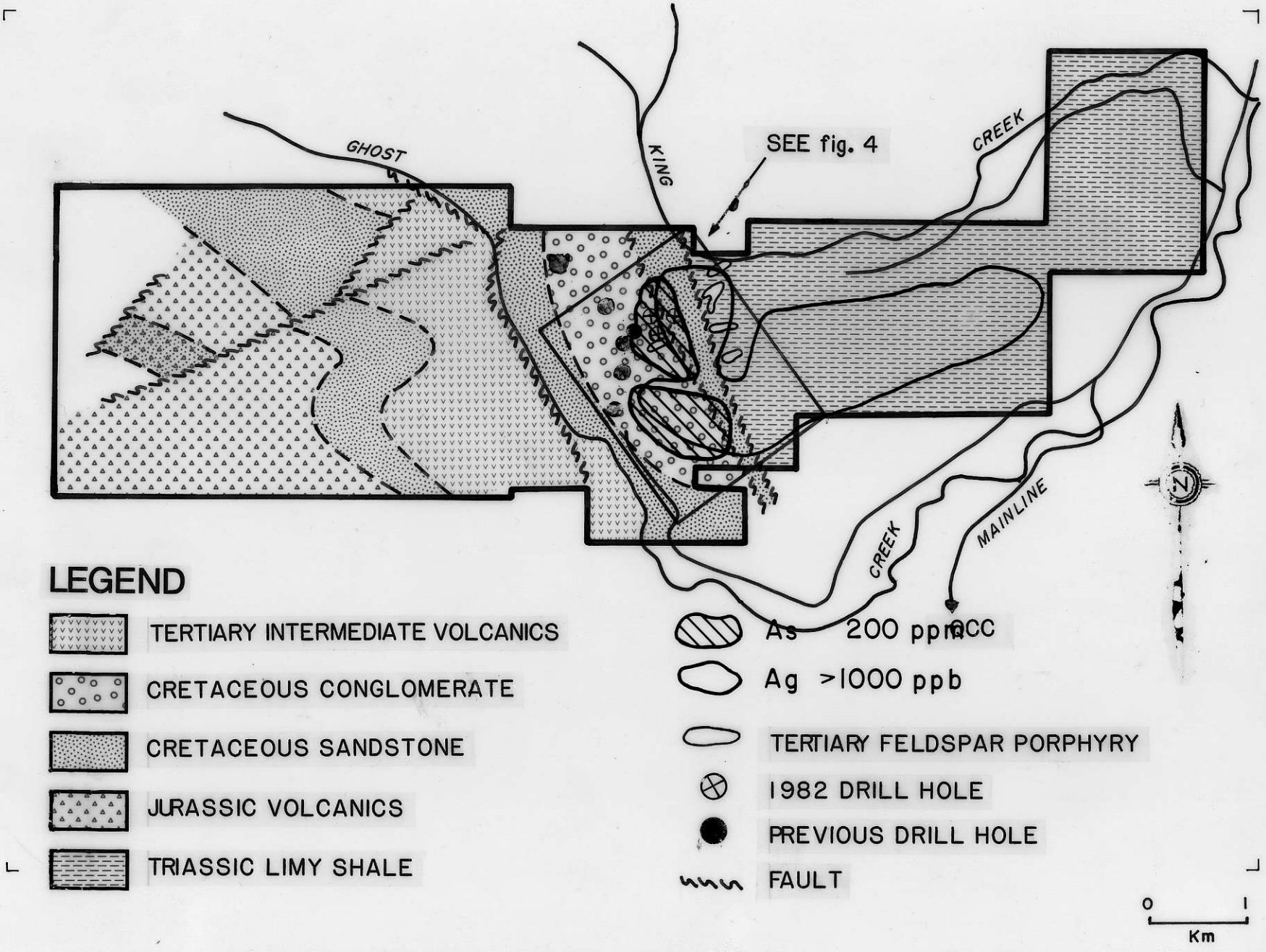


LEGEND

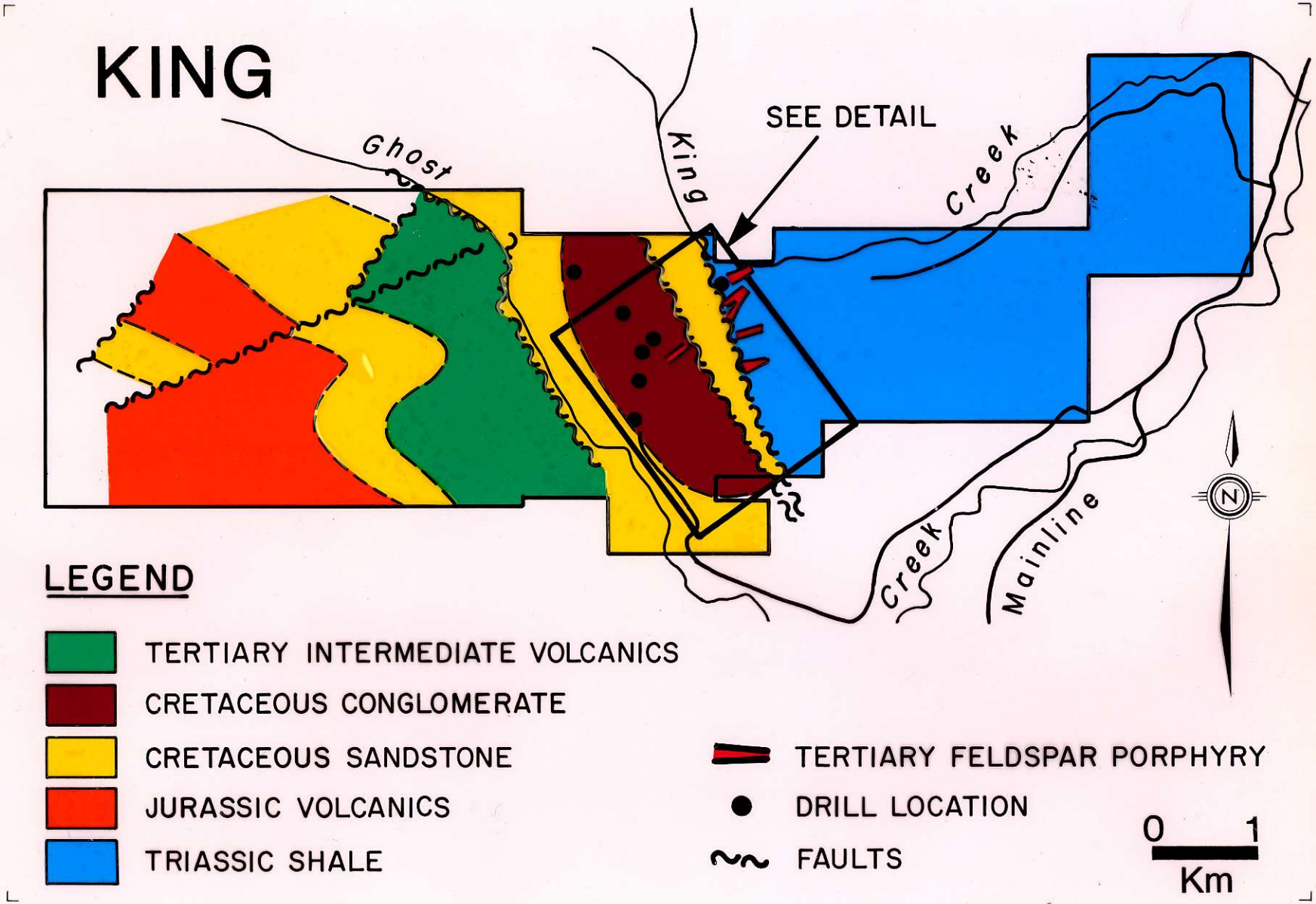
- TERTIARY INTERMEDIATE VOLCANICS
- CRETACEOUS CONGLOMERATE
- CRETACEOUS SANDSTONE
- JURASSIC VOLCANICS
- TRIASSIC SHALE
- TERTIARY FELDSPAR PORPHYRY
- DRILL LOCATION
- FAULTS

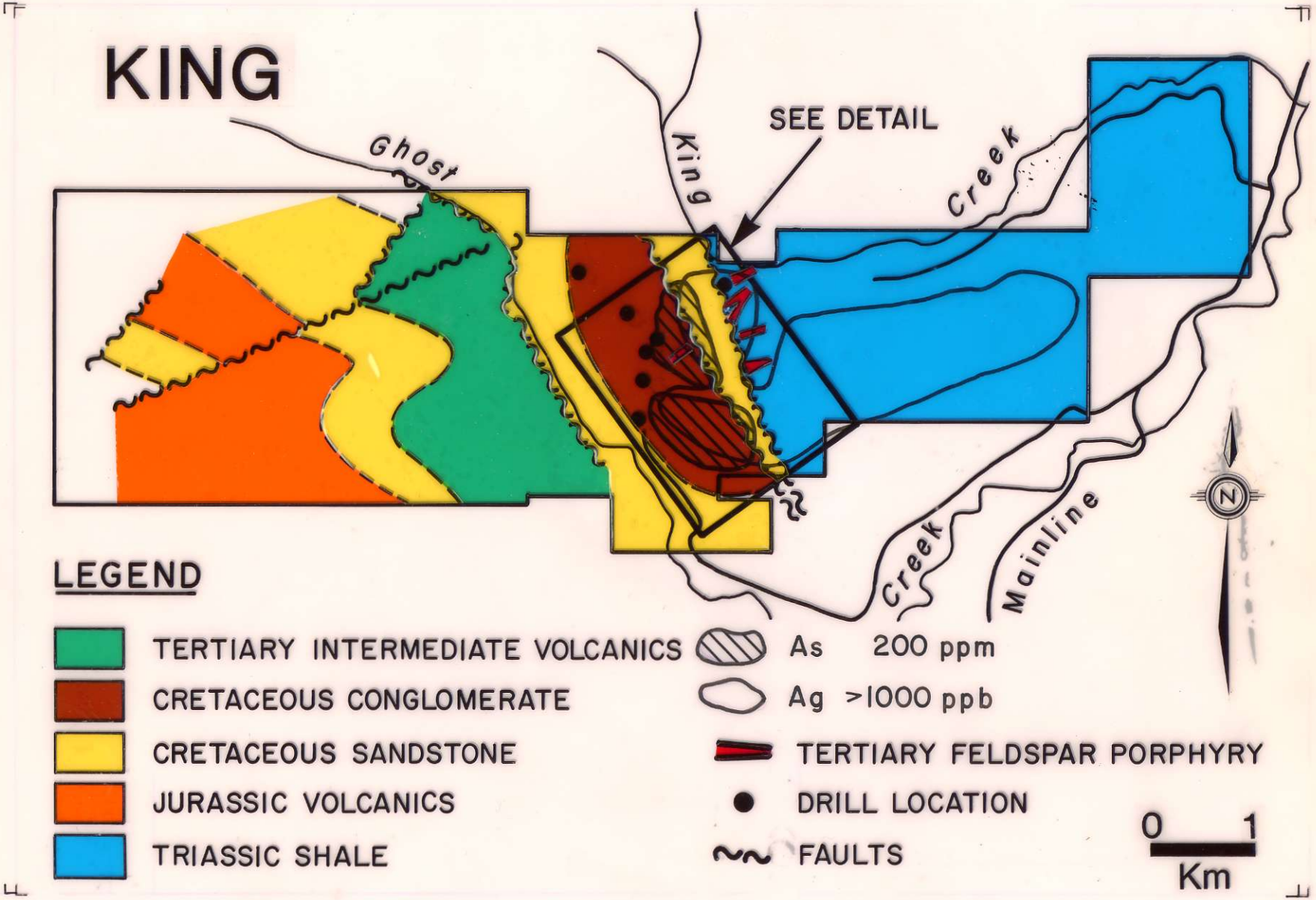
0 1
Km

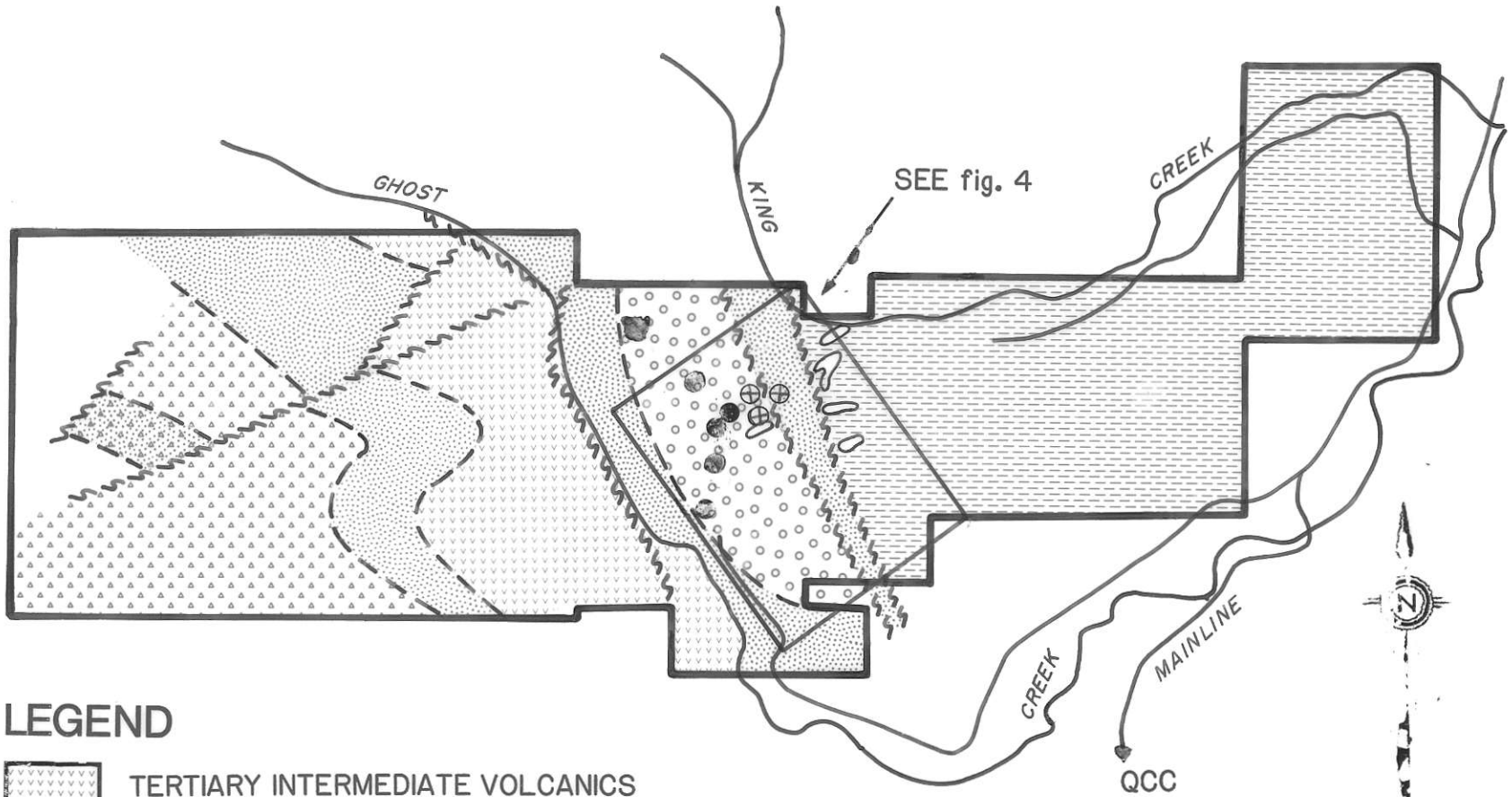

KING
SEE DETAIL
Ghost
King
Creek
Creek
Mainline
N
LEGEND
TERTIARY INTERMEDIATE VOLCANICS
CRETACEOUS CONGLOMERATE
CRETACEOUS SANDSTONE
JURASSIC VOLCANICS
TRIASSIC SHALE
As 200 ppm
Ag >1000 ppb
TERTIARY FELDSPAR PORPHYRY
DRILL LOCATION
FAULTS
0 1
Km



KING GENERALIZED GEOLOGY fig. 3


KING
Ghost
King
Creek
SEE DETAIL
Creek
Mainline
N
LEGEND
TERTIARY INTERMEDIATE VOLCANICS
CRETACEOUS CONGLOMERATE
CRETACEOUS SANDSTONE
JURASSIC VOLCANICS
TRIASSIC SHALE
TERTIARY FELDSPAR PORPHYRY
DRILL LOCATION
FAULTS
0 1
Km


KING
Ghost
King
Creek
SEE DETAIL
Creek
Mainline
N
LEGEND
TERTIARY INTERMEDIATE VOLCANICS
CRETACEOUS CONGLOMERATE
CRETACEOUS SANDSTONE
JURASSIC VOLCANICS
TRIASSIC SHALE
As 200 ppm
Ag >1000 ppb
TERTIARY FELDSPAR PORPHYRY
DRILL LOCATION
FAULTS
0 1
Km

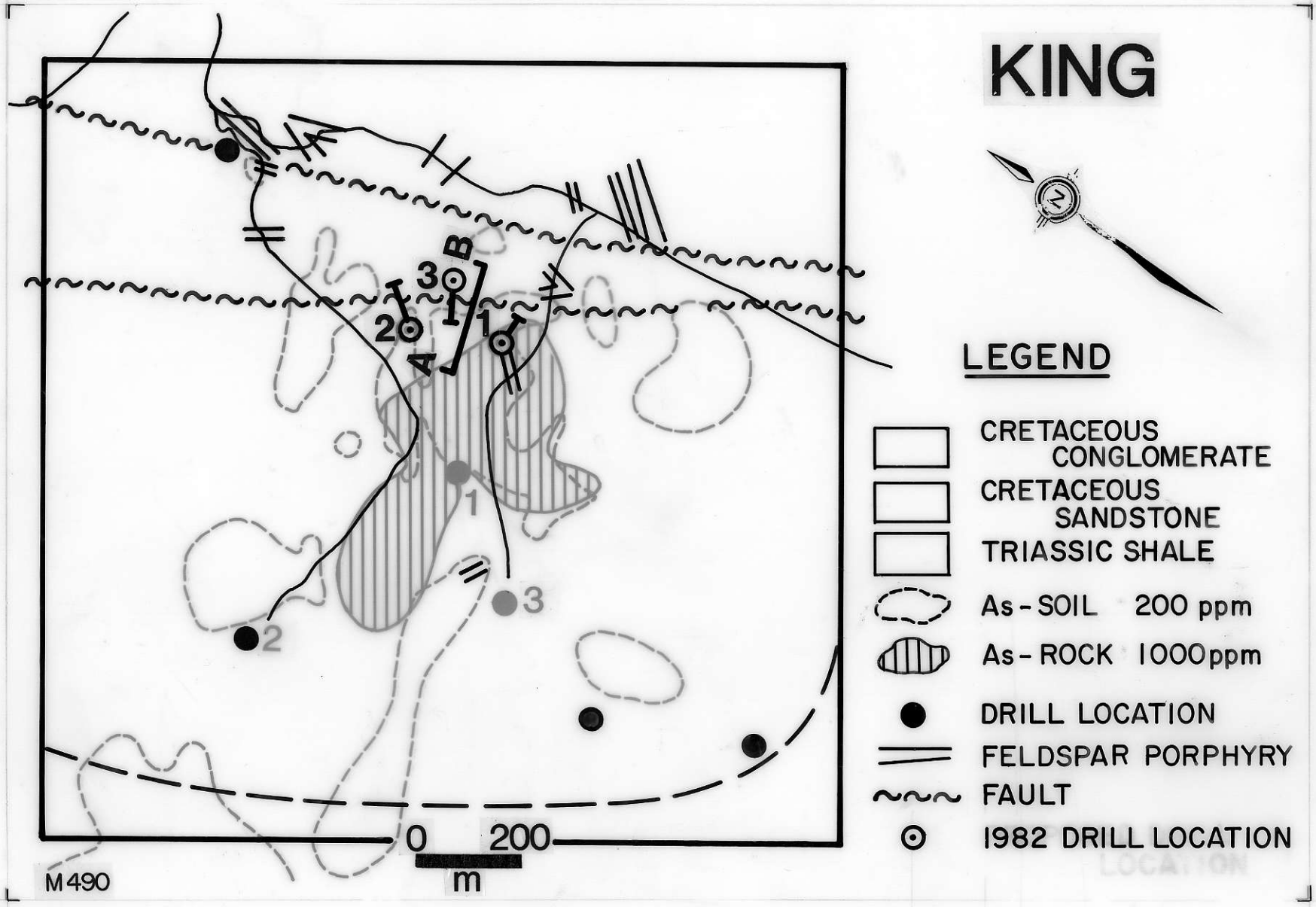


LEGEND

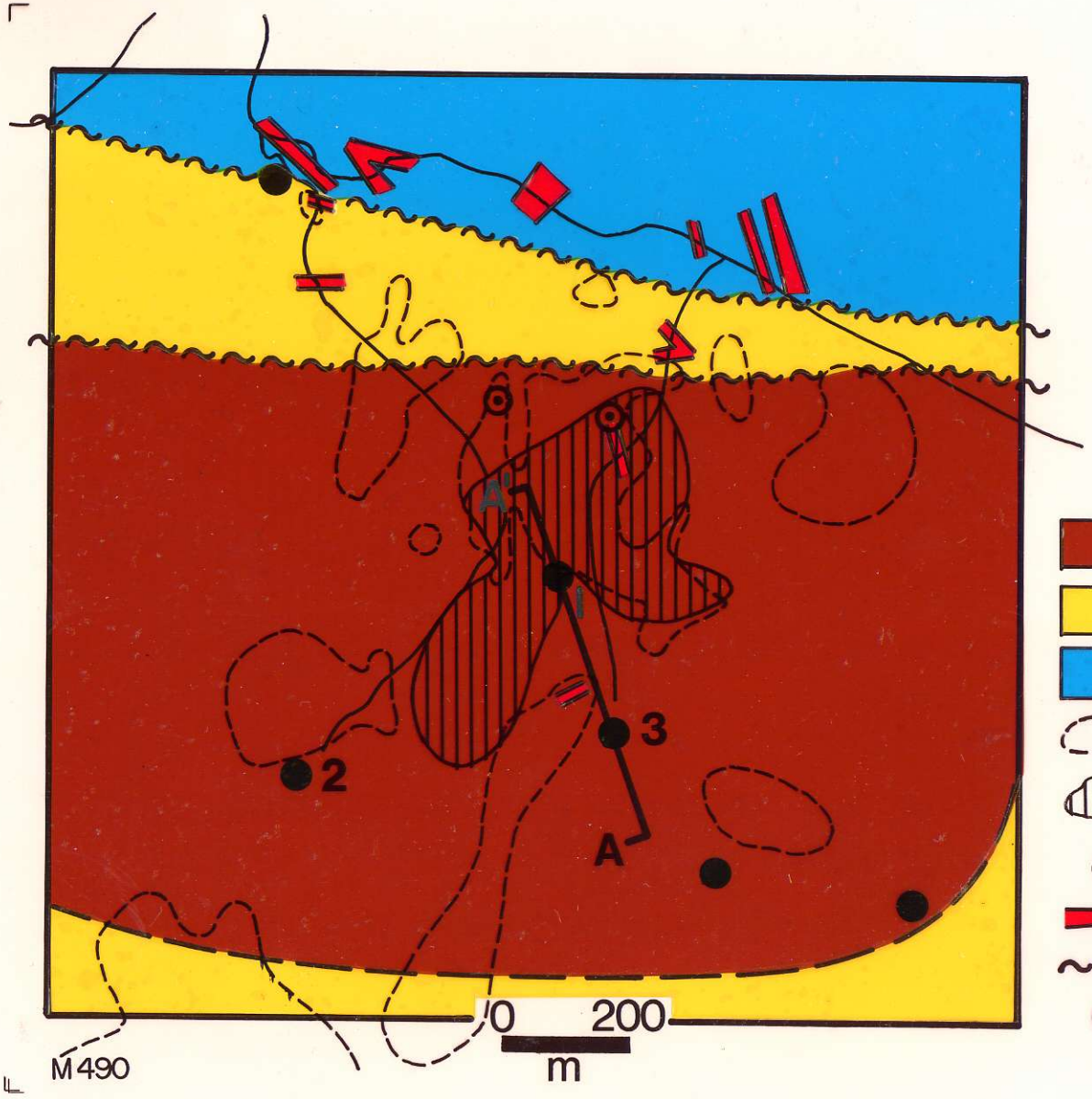
- TERTIARY INTERMEDIATE VOLCANICS
- CRETACEOUS CONGLOMERATE
- CRETACEOUS SANDSTONE
- JURASSIC VOLCANICS
- TRIASSIC LIMY SHALE
- TERTIARY FELDSPAR PORPHYRY
- 1982 DRILL HOLE
- PREVIOUS DRILL HOLE
- FAULT

0 1 Km

KING GENERALIZED GEOLOGY fig. 3

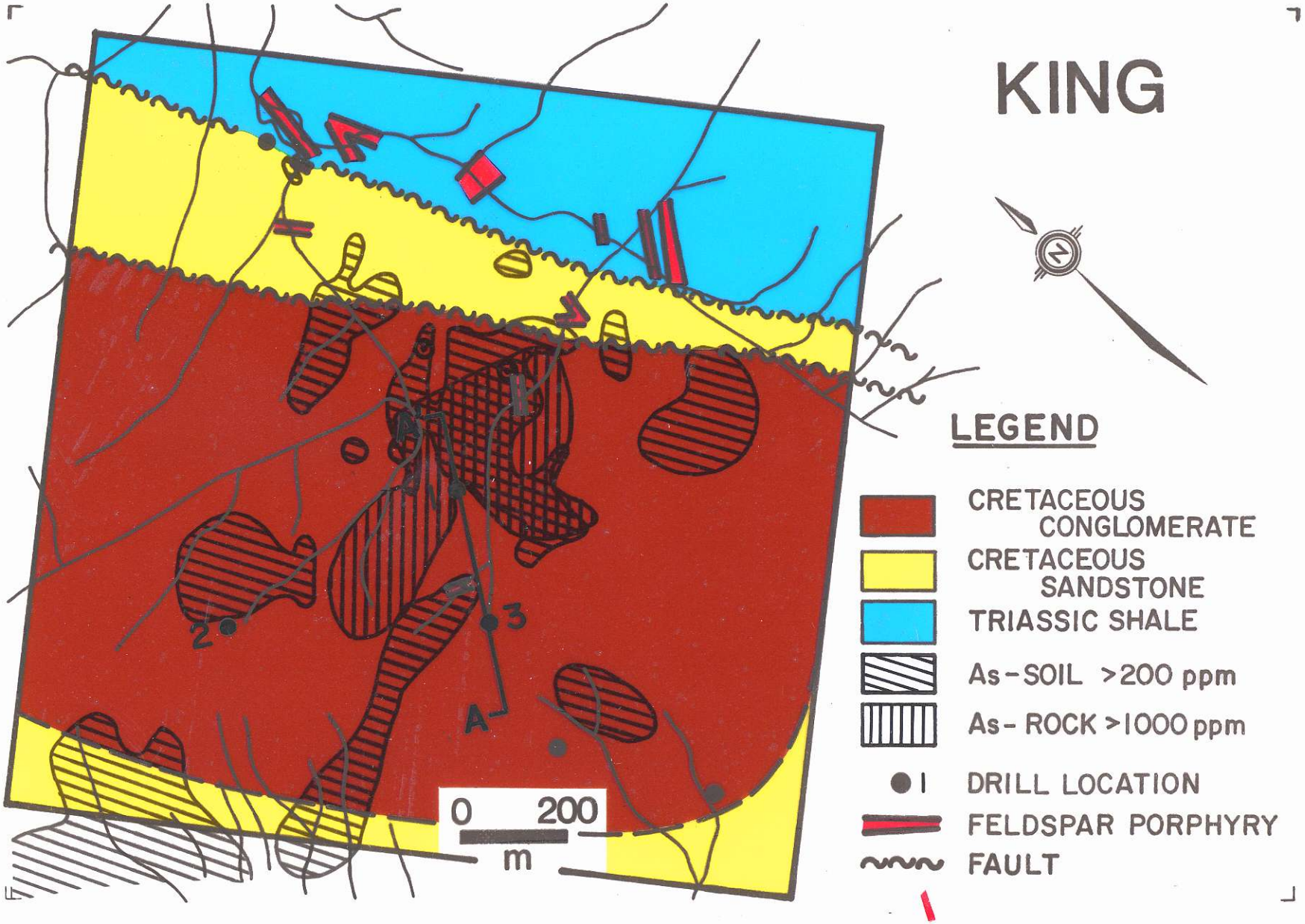

KING
LEGEND
CRETACEOUS CONGLOMERATE
CRETACEOUS SANDSTONE
TRIASSIC SHALE
As - SOIL 200 ppm
As - ROCK 1000ppm
DRILL LOCATION
FELDSPAR PORPHYRY
FAULT
1982 DRILL LOCATION
A
B
1
2
3
0
200
m
M490

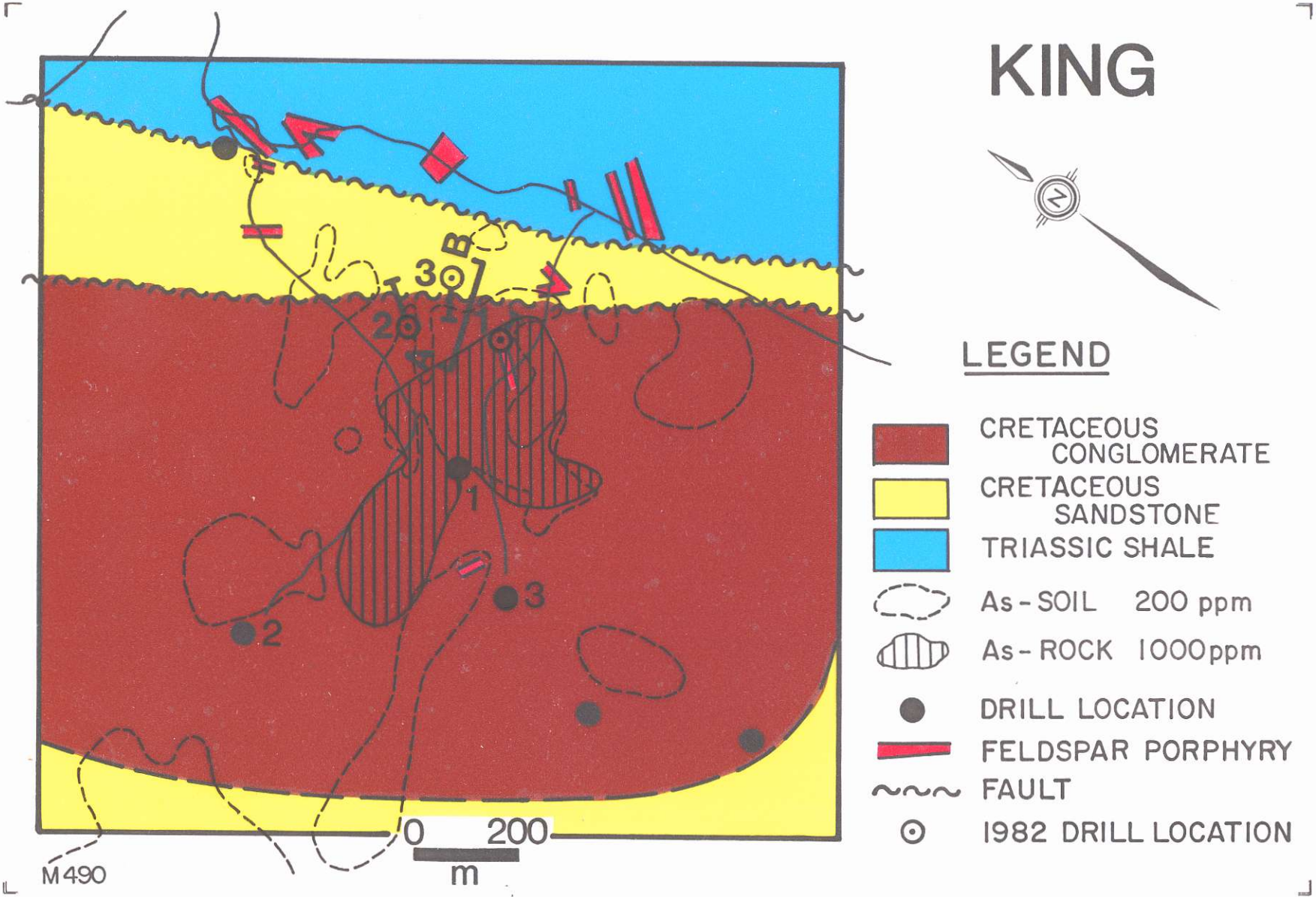
KING

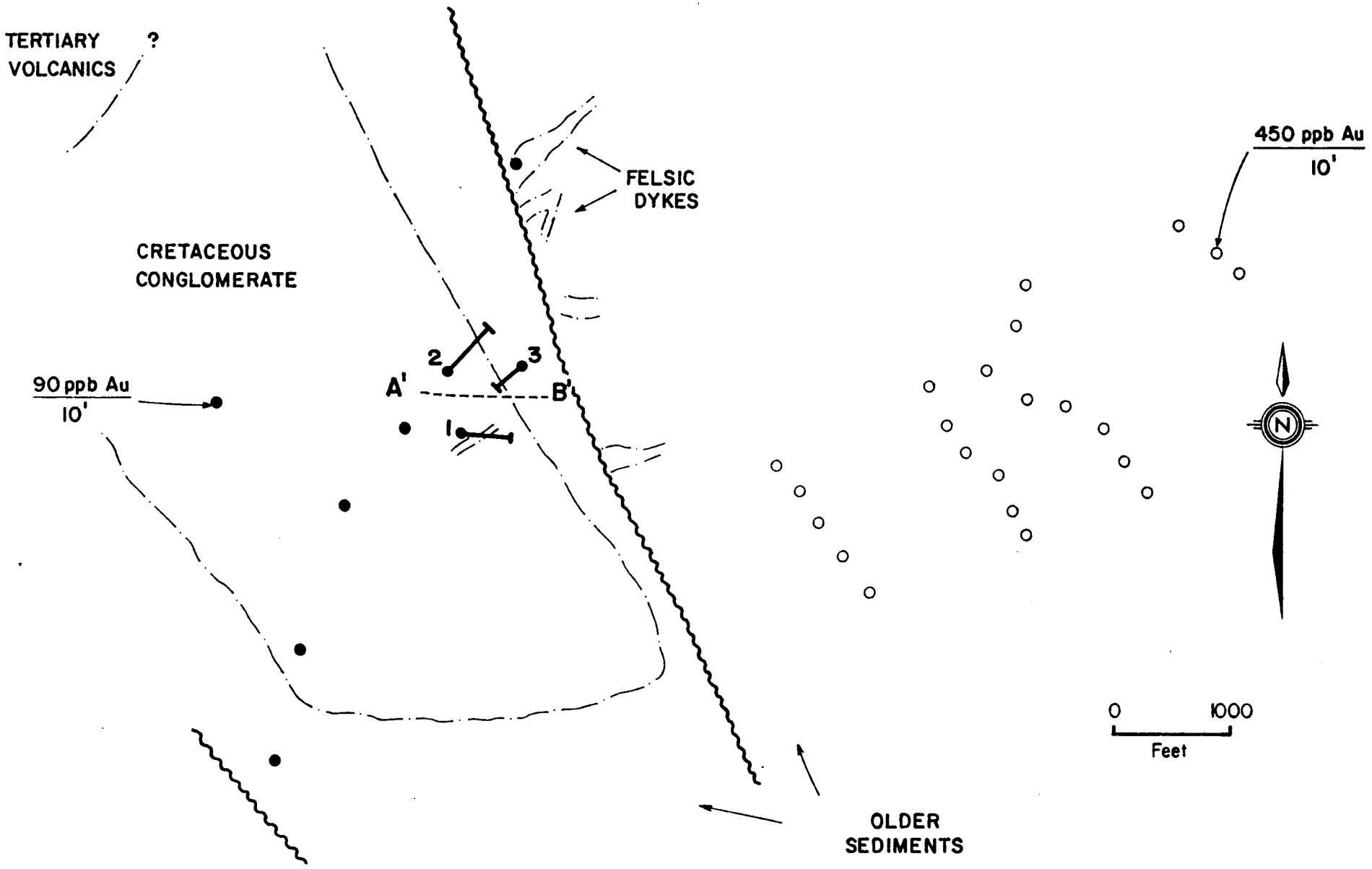


LEGEND

- CRETACEOUS CONGLOMERATE
- CRETACEOUS SANDSTONE
- TRIASSIC SHALE
- As - SOIL 200 ppm
- As - ROCK 1000ppm
- 1 DRILL LOCATION
- FELDSPAR PORPHYRY
- FAULT
- PROPOSED DRILL LOCATION


KING
LEGEND
CRETACEOUS CONGLOMERATE
CRETACEOUS SANDSTONE
TRIASSIC SHALE
As-SOIL >200 ppm
As-ROCK >1000 ppm
DRILL LOCATION
FELDSPAR PORPHYRY
FAULT
0 200
m
A
A
1
2
3


KING
LEGEND
CRETACEOUS CONGLOMERATE
CRETACEOUS SANDSTONE
TRIASSIC SHALE
As - SOIL 200 ppm
As - ROCK 1000ppm
DRILL LOCATION
FELDSPAR PORPHYRY
FAULT
1982 DRILL LOCATION
3B
3
2
1
0 200
m
M490



DRILLING

○ 1979 Percussion

● 1980 Diamond

1● 1982 Diamond Number

Au anomalies

KING

SECTION THROUGH KING DRILLING AREA

LOOKING NORTH

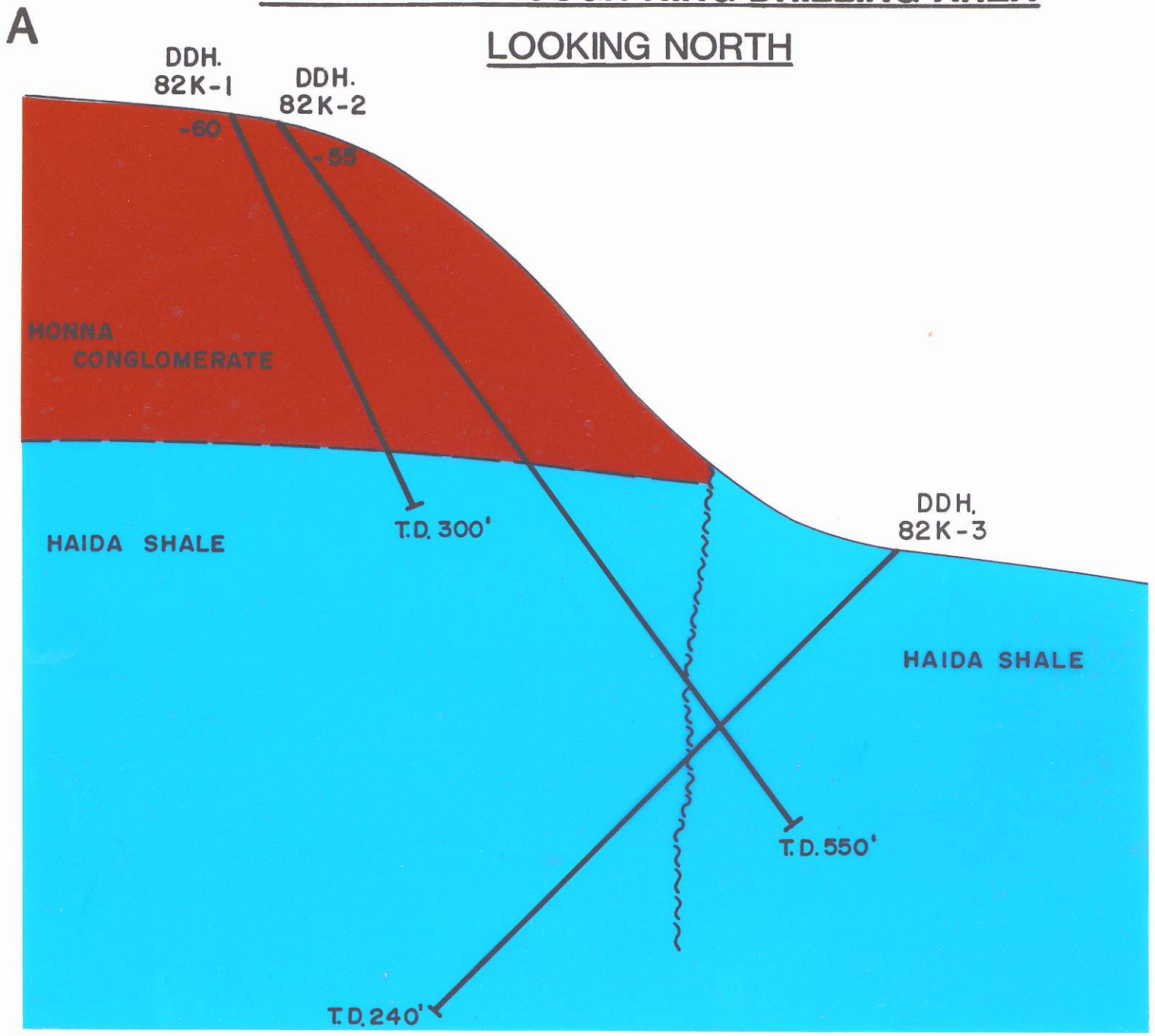
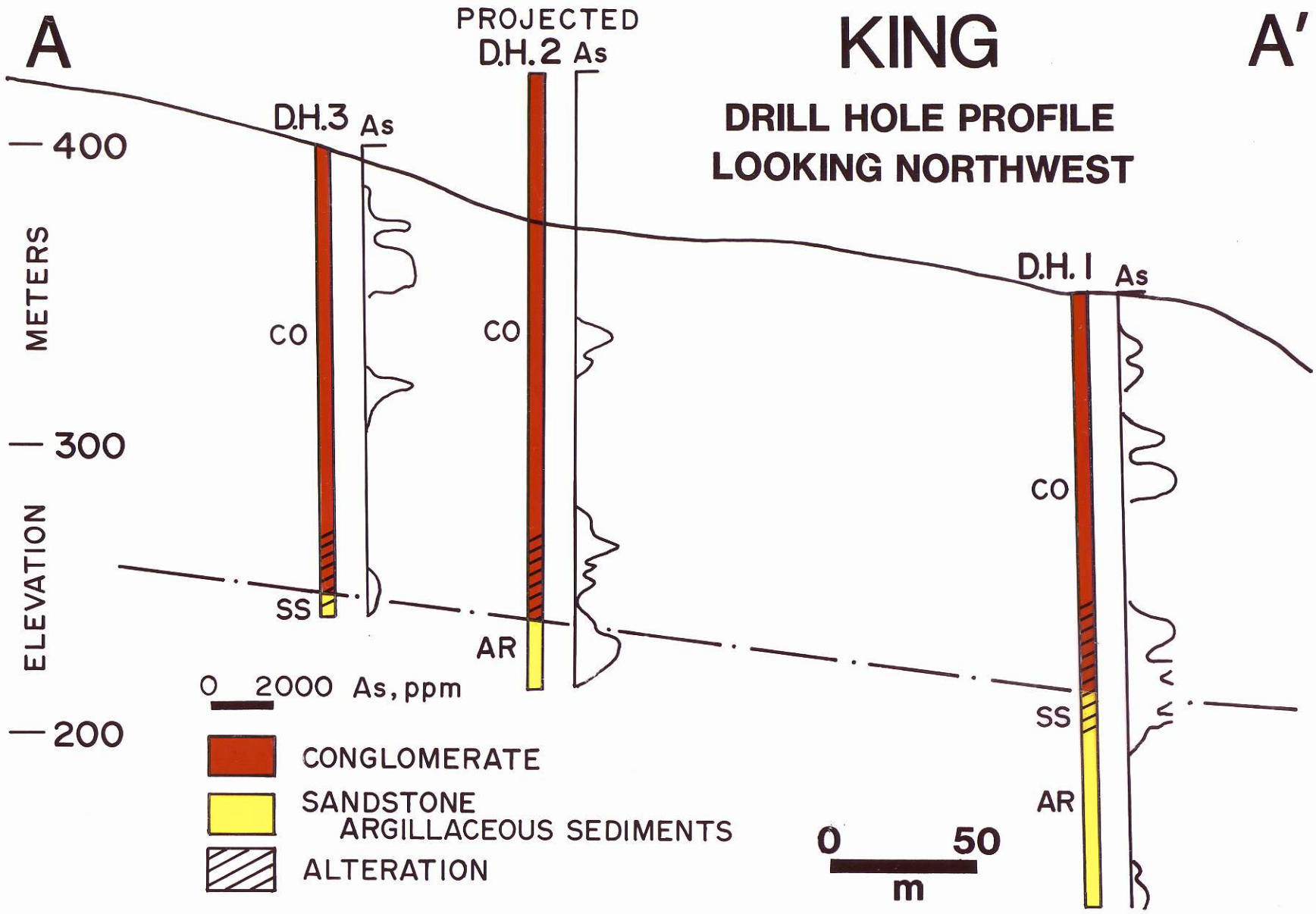
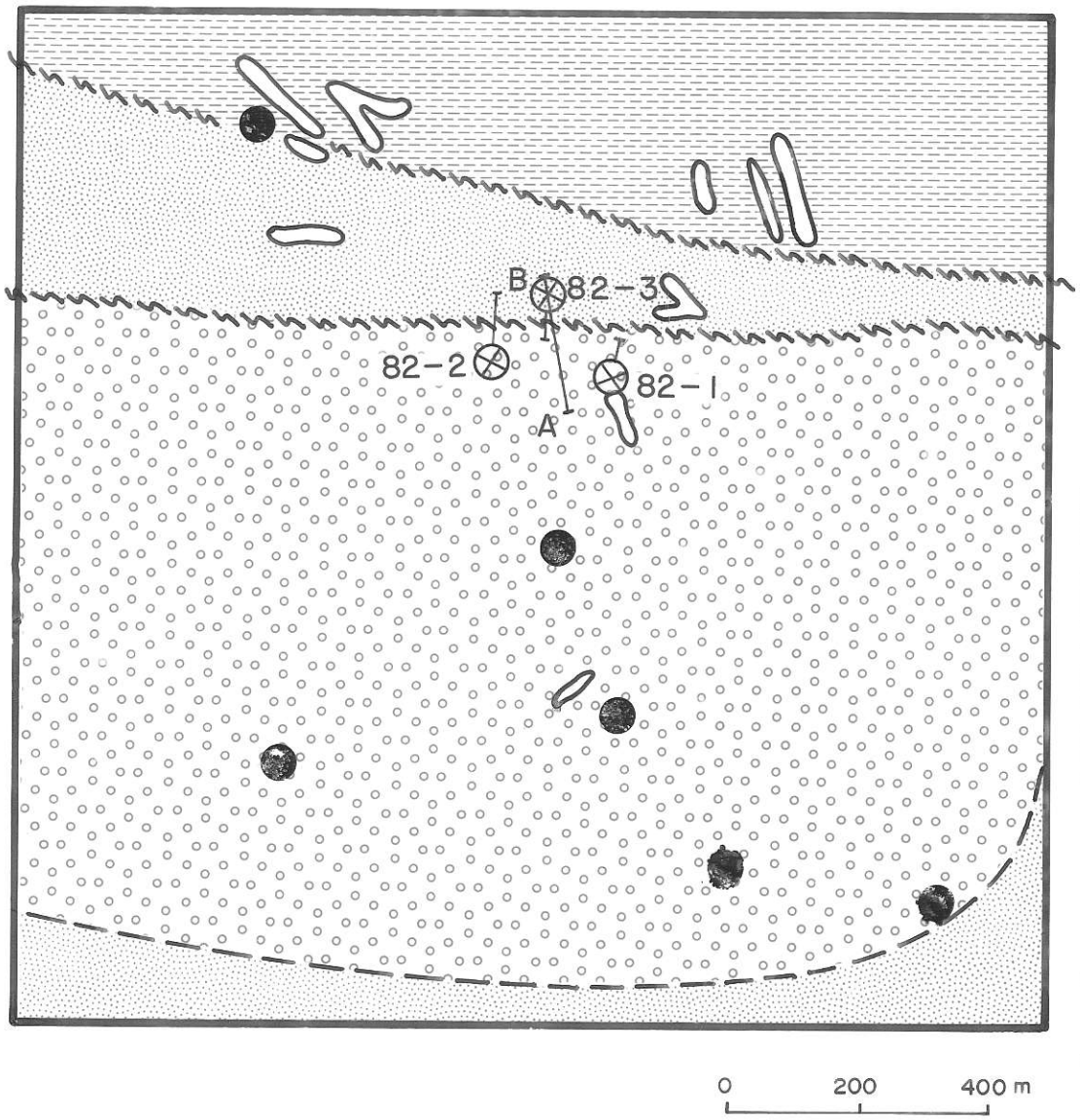
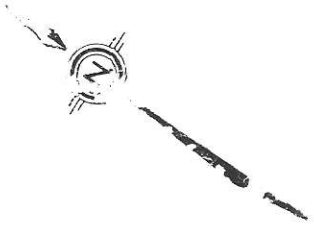


FIG.2


A
PROJECTED
D.H.2 As
KING
A'
DRILL HOLE PROFILE
LOOKING NORTHWEST
D.H.3 As
D.H.1 As
400
300
200
METERS
ELEVATION
CO
CO
CO
SS
AR
SS
AR
0 2000 As, ppm
CONGLOMERATE
SANDSTONE
ARGILLACEOUS SEDIMENTS
ALTERATION
0 50
m

KING PROPERTY DETAILED GEOLOGY & DRILL HOLE LOCATION MAP





LEGEND

- CRETACEOUS CONGLOMERATE
- CRETACEOUS SANDSTONE
- TRIASSIC LIMY SHALE
- FELDSPAR PORPHYRY
- DRILL HOLE
- 1982 DRILL HOLE
- FAULT
- GEOLOGICAL CONTACT

fig. 4

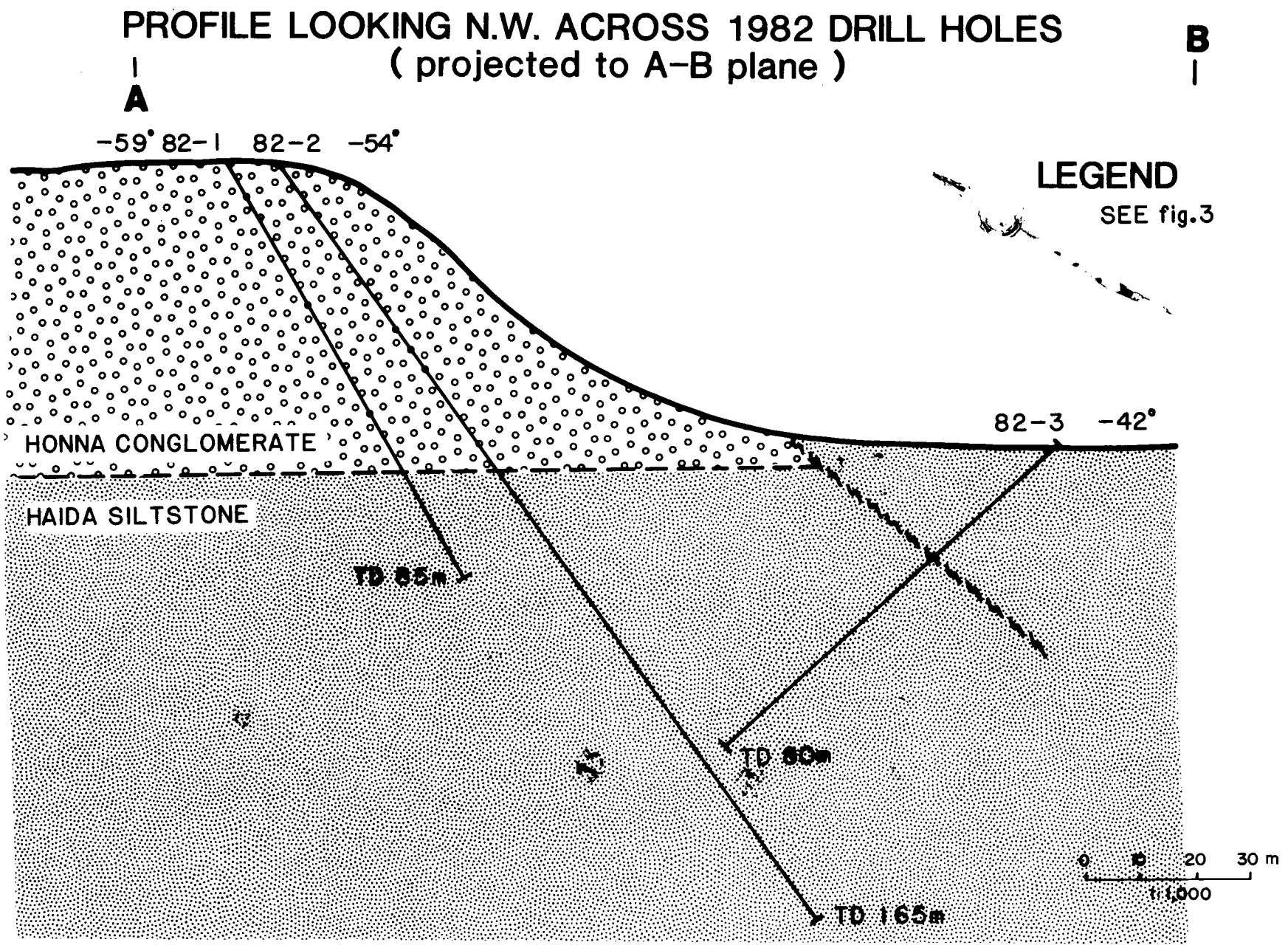
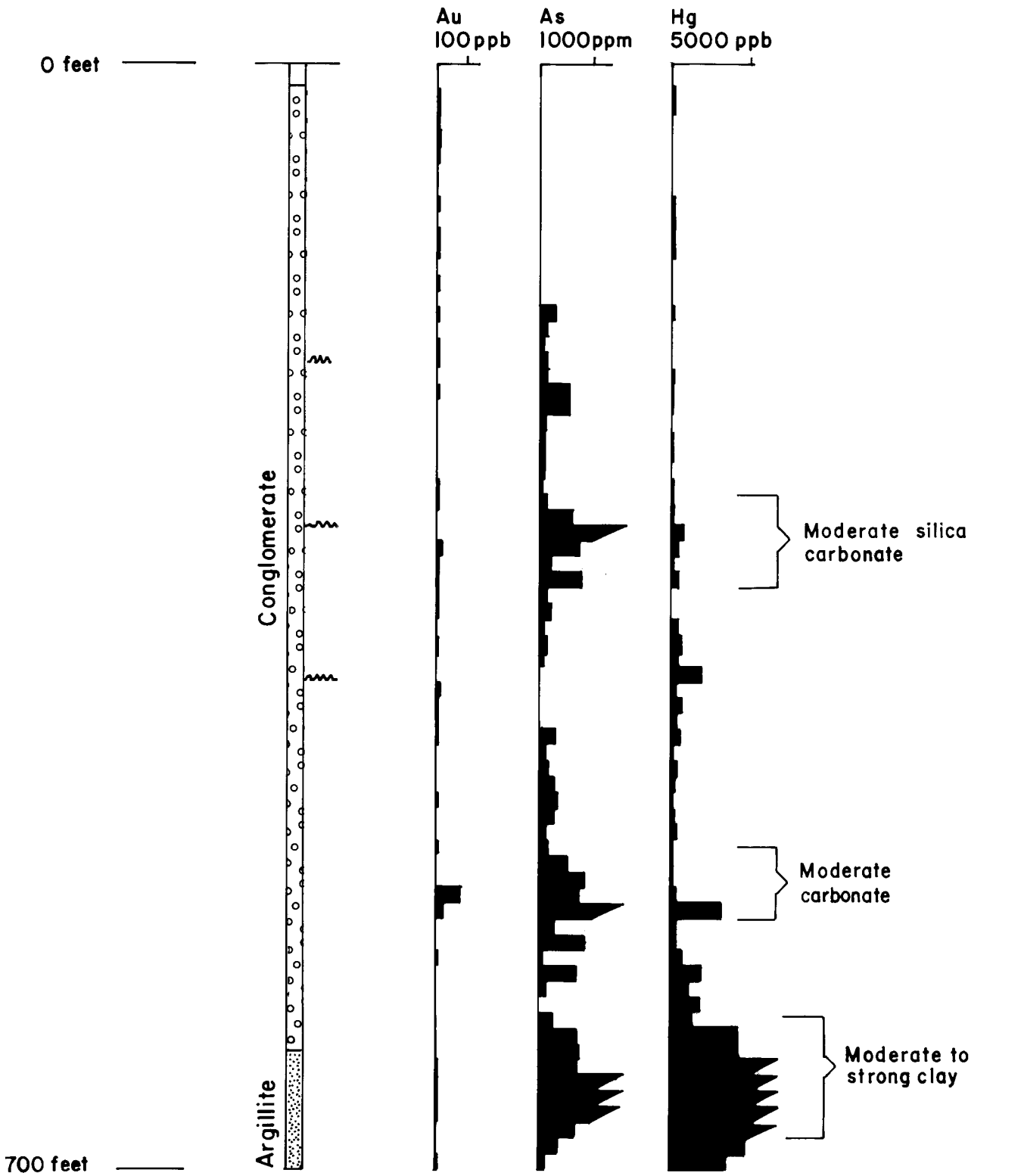

PROFILE LOOKING N.W. ACROSS 1982 DRILL HOLES
(projected to A-B plane)
A
B
-59°
82-1
82-2
-54°
LEGEND
SEE fig.3
82-3
-42°
HONNA CONGLOMERATE
HAIDA SILTSTONE
TD 65m
TD 80m
TD 165m
0
10
20
30 m
1:1,000

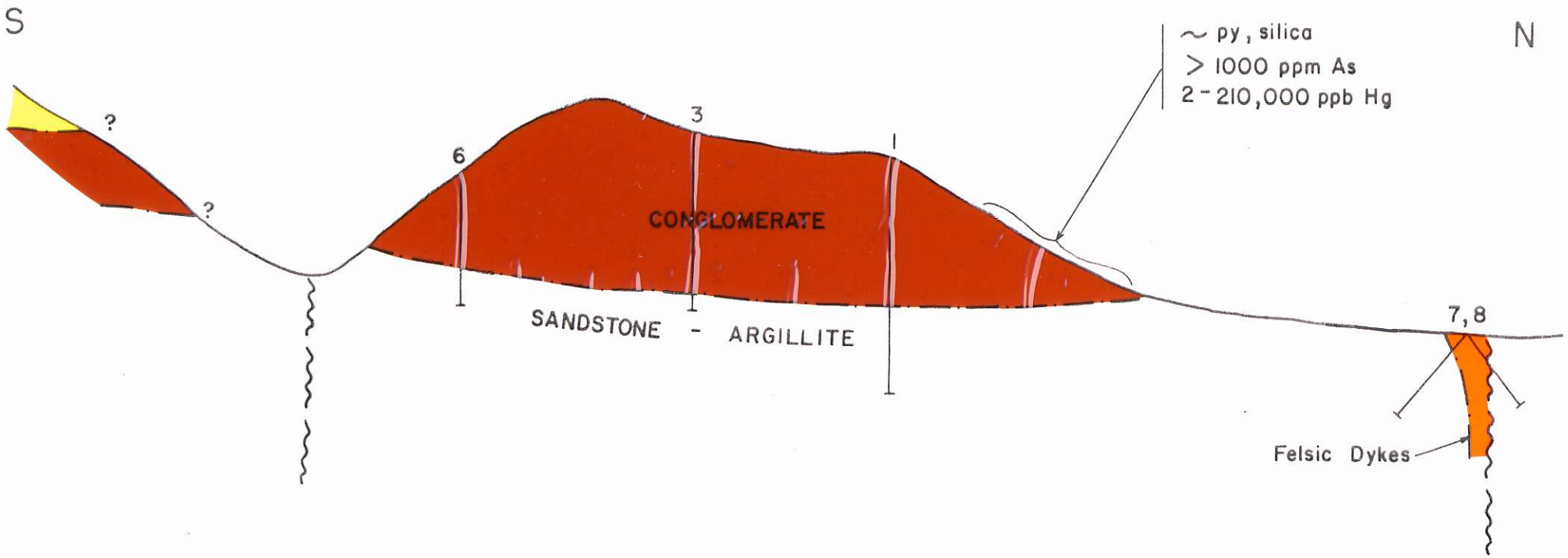
fig. 5



KING

DRILL HOLE # 2

AUG 80.



Hg–As ANOMALIES AT CONGLOMERATE BASE

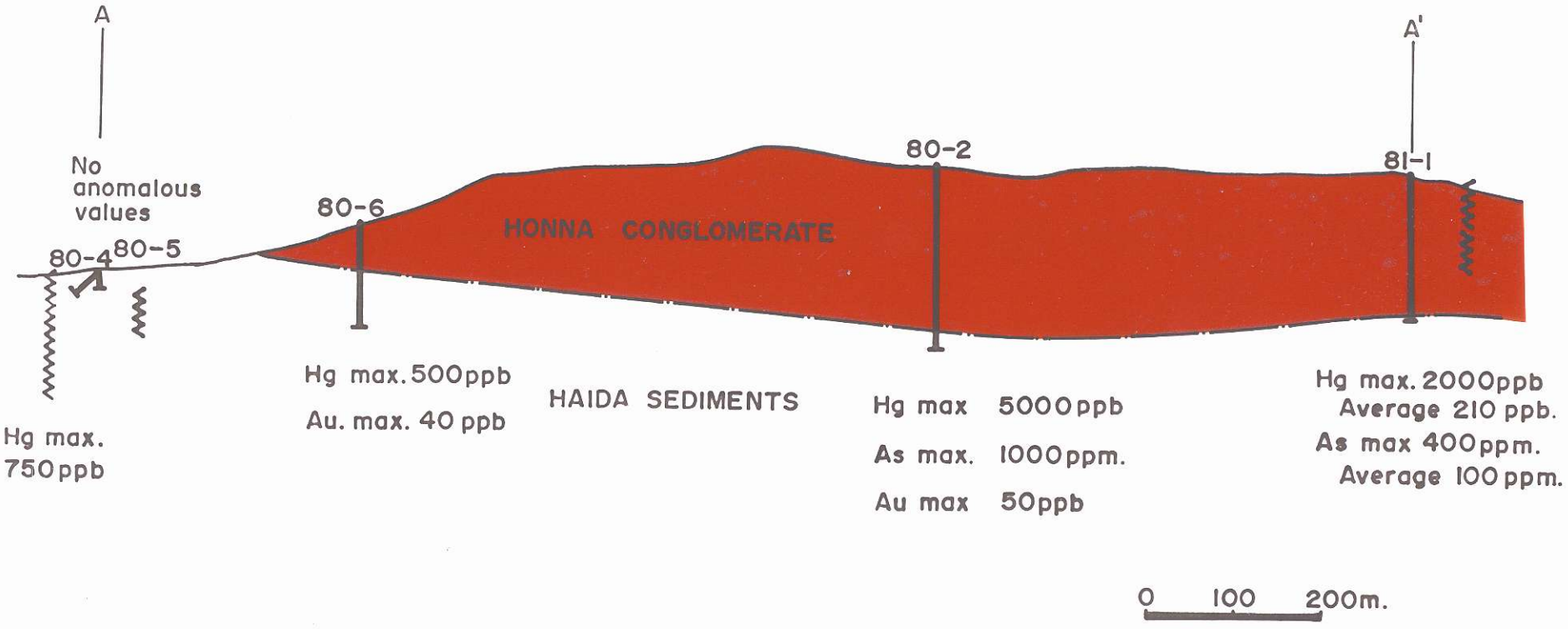
SUGGEST LATERAL TRANSPORT

KING

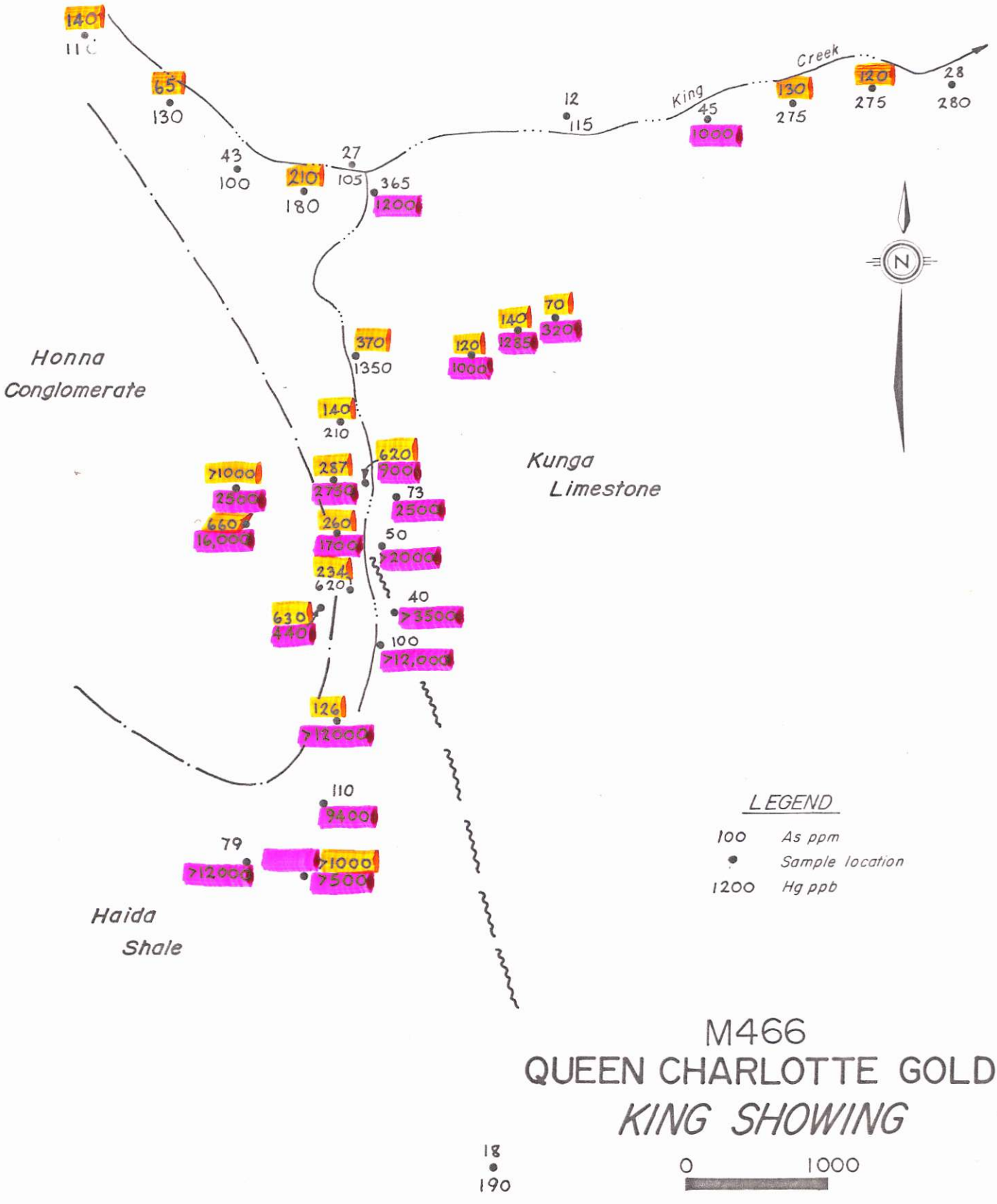
0 200

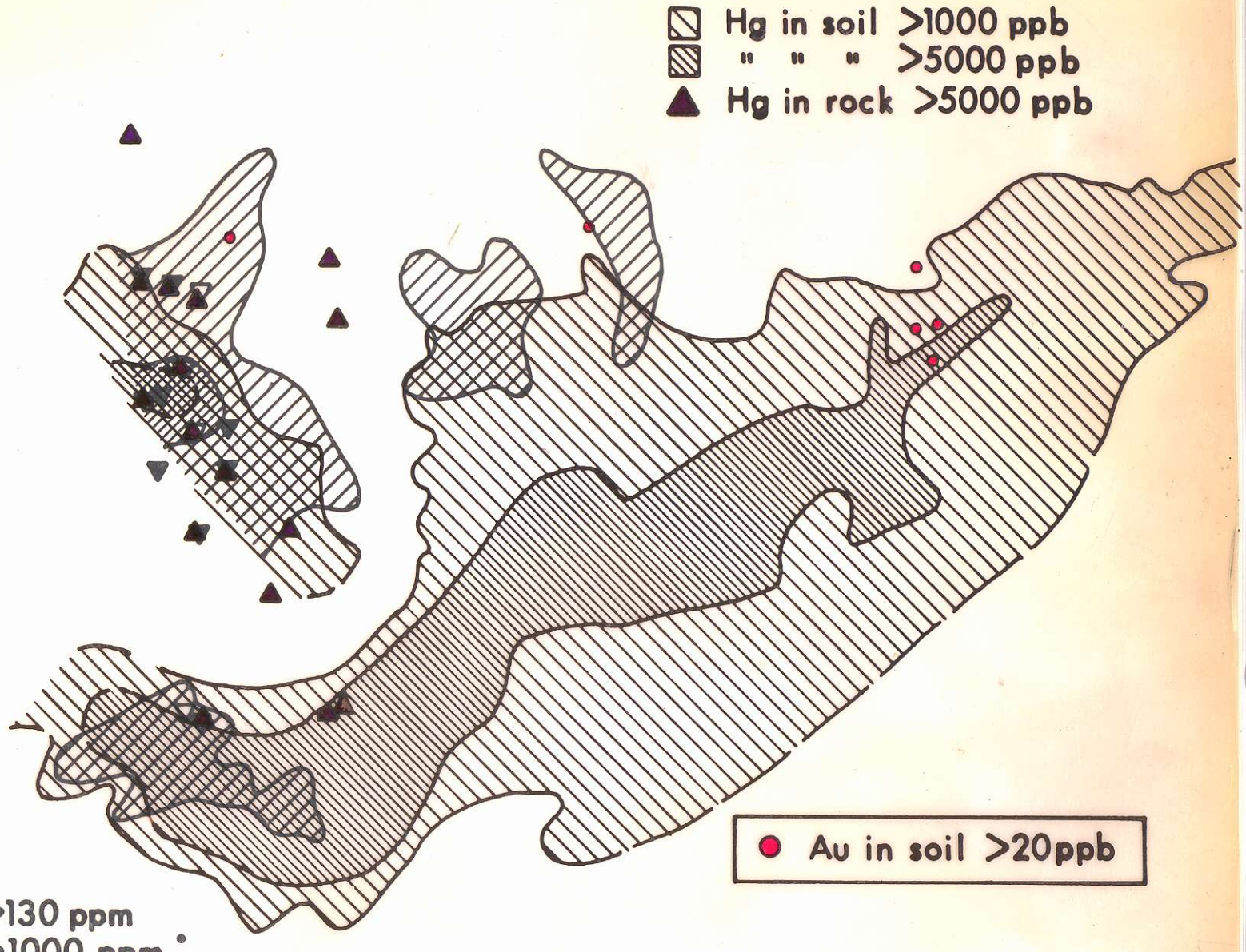
metres

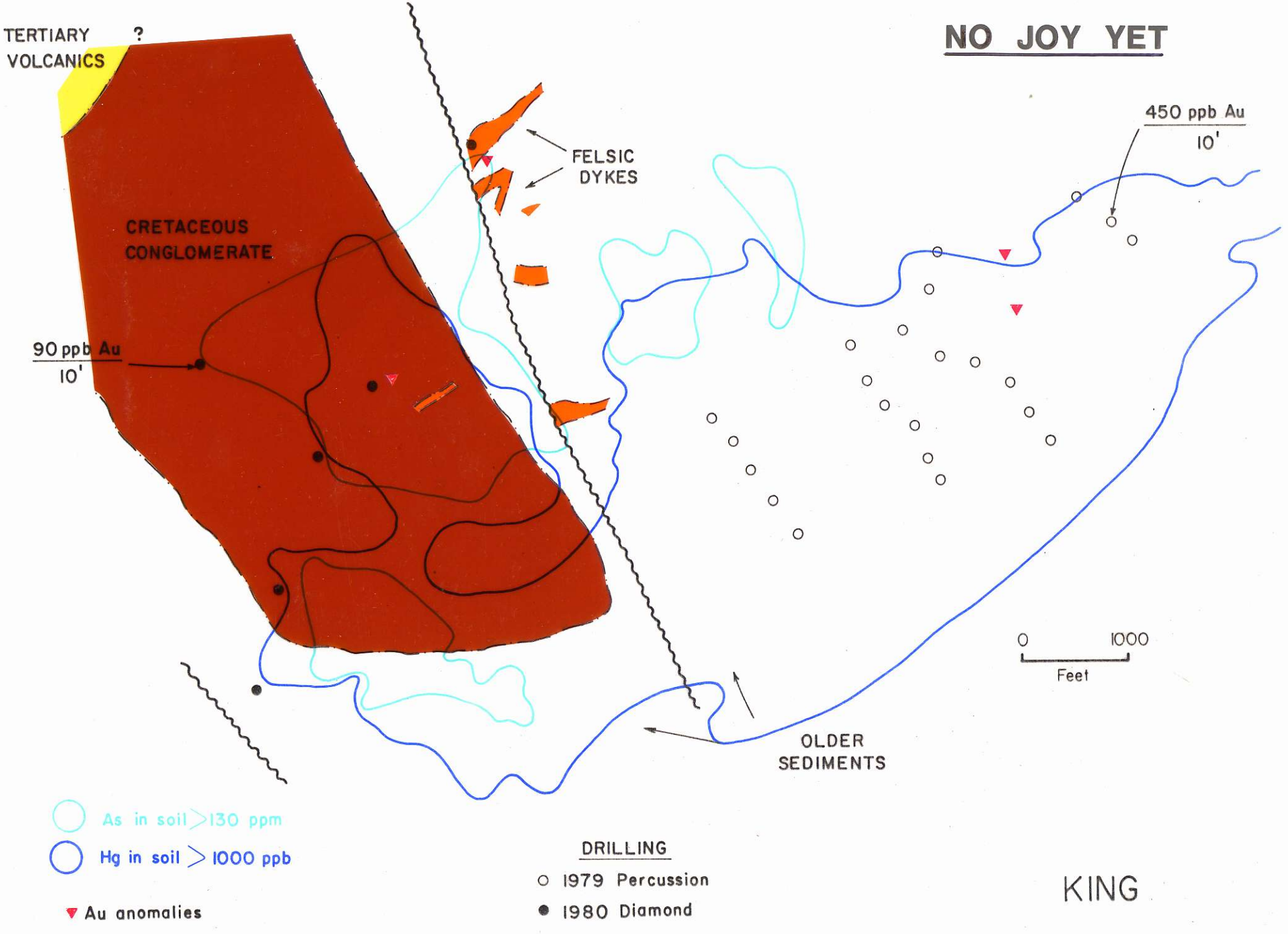
PROFILE A–A' LOOKING WEST

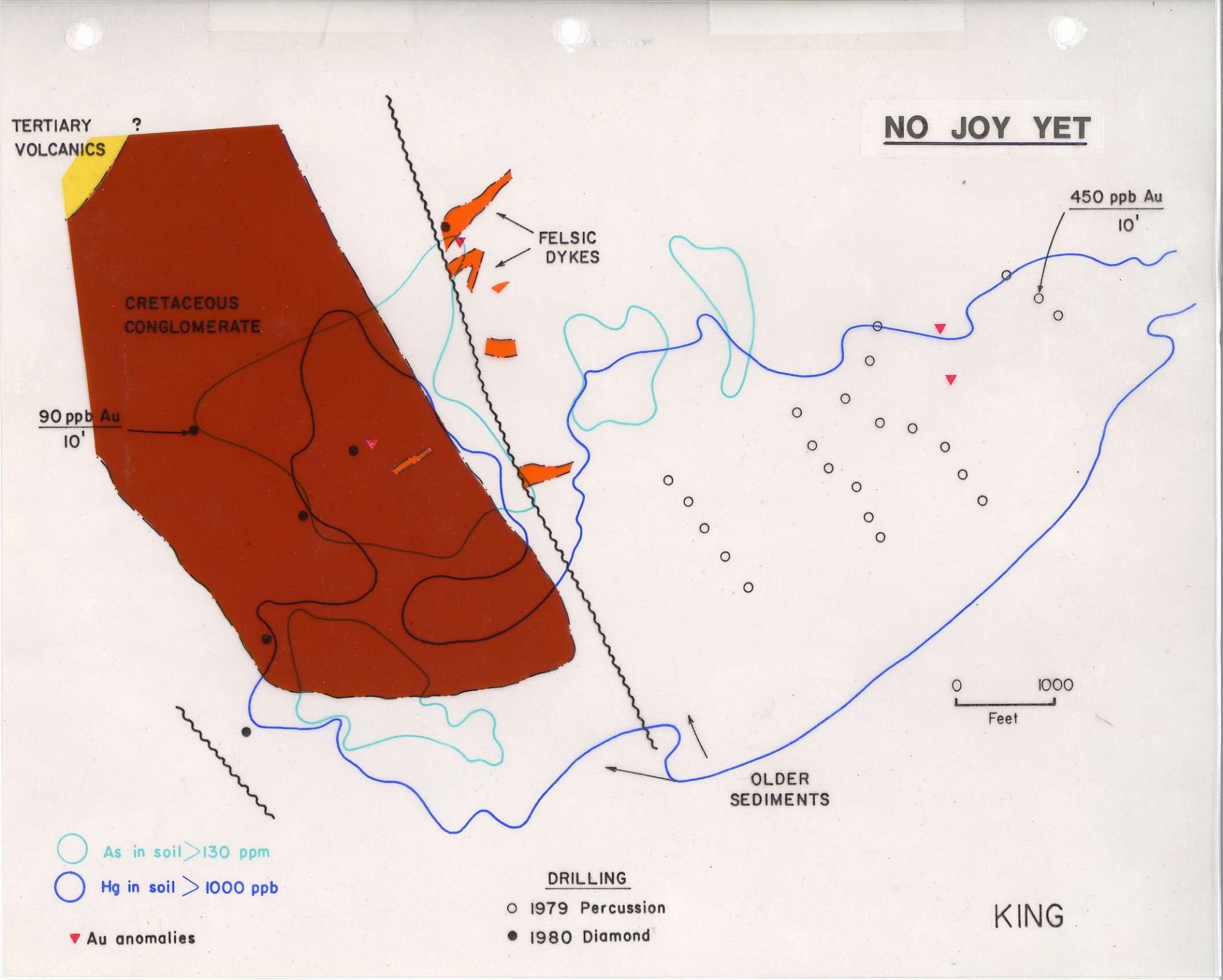


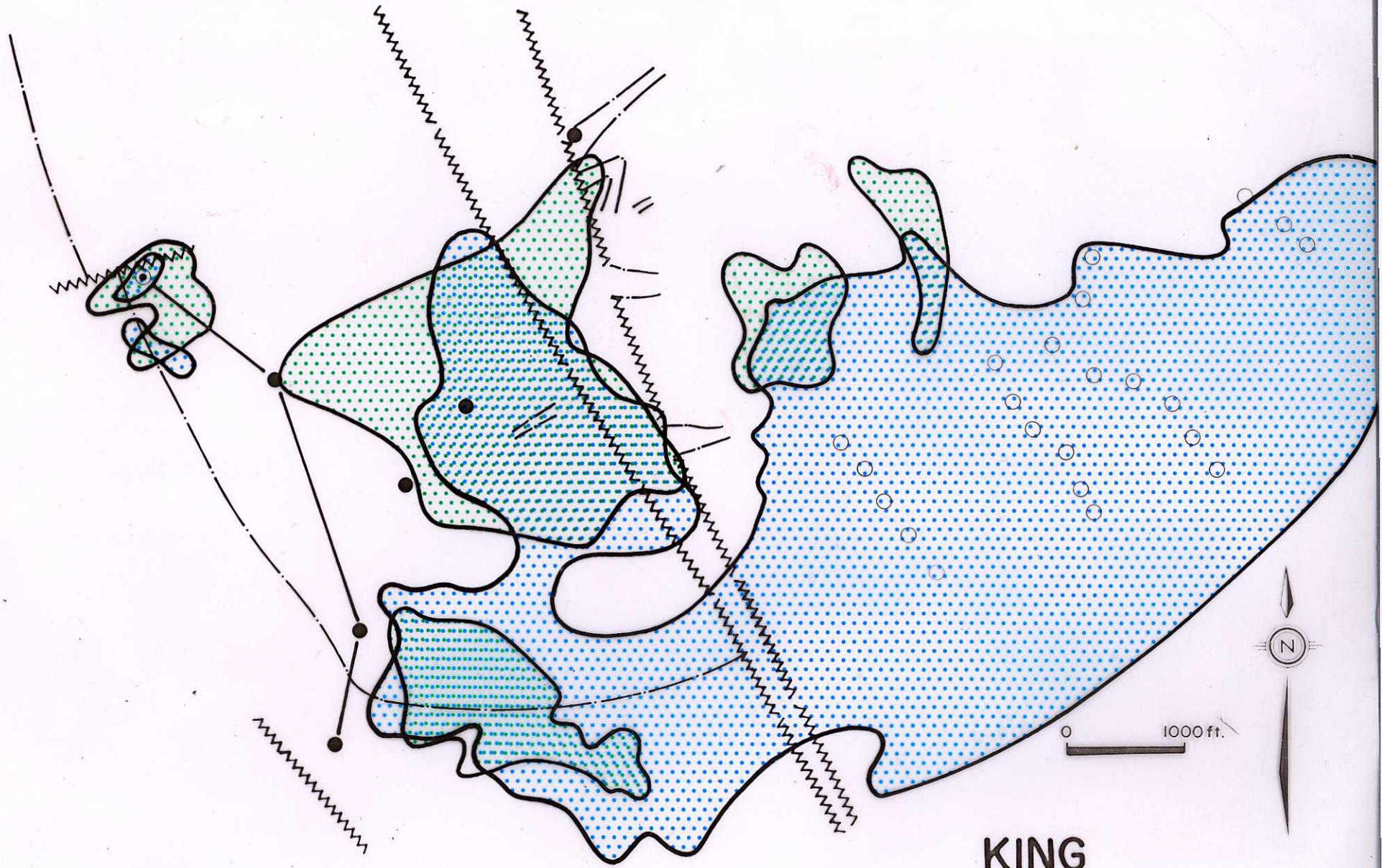
KING
M490

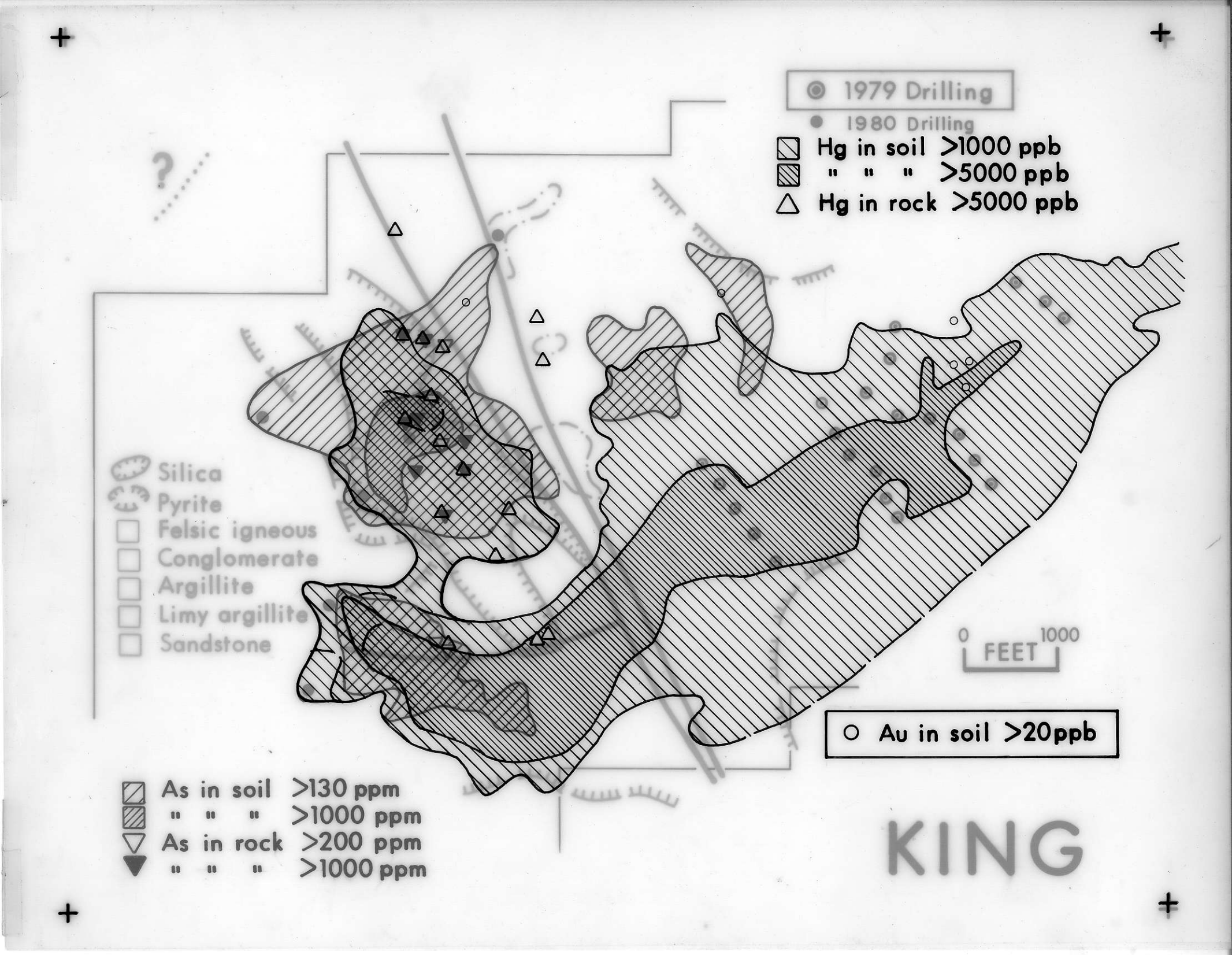

King Creek
Honna Conglomerate
Kunga Limestone
Haida Shale
N
LEGEND
100 As ppm
Sample location
1200 Hg ppb
M466
QUEEN CHARLOTTE GOLD
KING SHOWING
0
1000

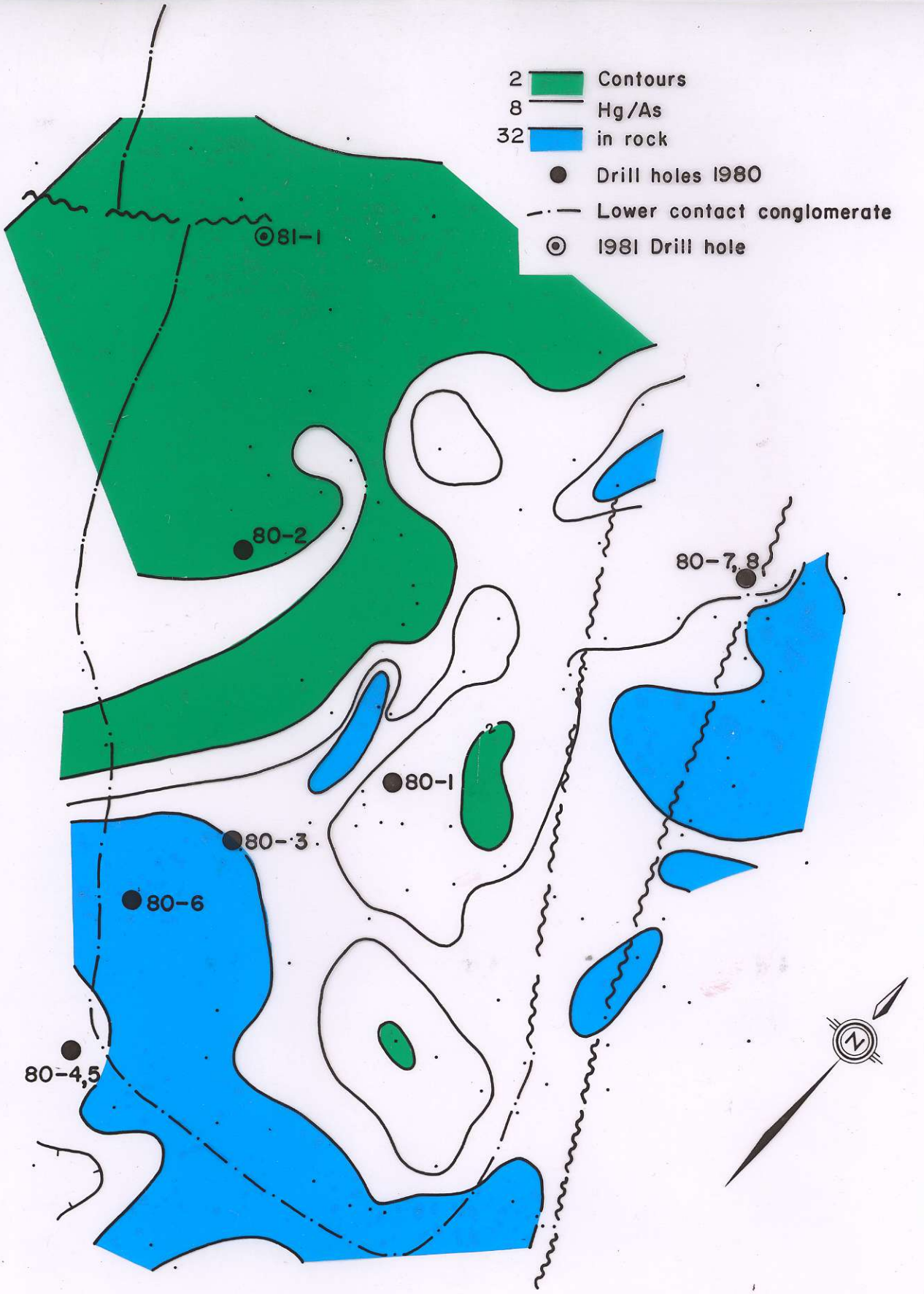

Hg in soil >1000 ppb
" " " >5000 ppb
Hg in rock >5000 ppb
Au in soil >20ppb
As in soil >130 ppm
" " " >1000 ppm
As in rock >200 ppm
" " " >1000 ppm


NO JOY YET
TERTIARY VOLCANICS ?
CRETACEOUS CONGLOMERATE
FELSIC DYKES
450 ppb Au
10'
90 ppb Au
10'
0
1000
Feet
OLDER SEDIMENTS
As in soil > 130 ppm
Hg in soil > 1000 ppb
Au anomalies
DRILLING
1979 Percussion
1980 Diamond
KING


NO JOY YET
TERTIARY VOLCANICS ?
CRETACEOUS CONGLOMERATE
FELSIC DYKES
450 ppb Au
10'
90 ppb Au
10'
OLDER SEDIMENTS
0
1000
Feet
As in soil > 130 ppm
Hg in soil > 1000 ppb
Au anomalies
DRILLING
1979 Percussion
1980 Diamond
KING

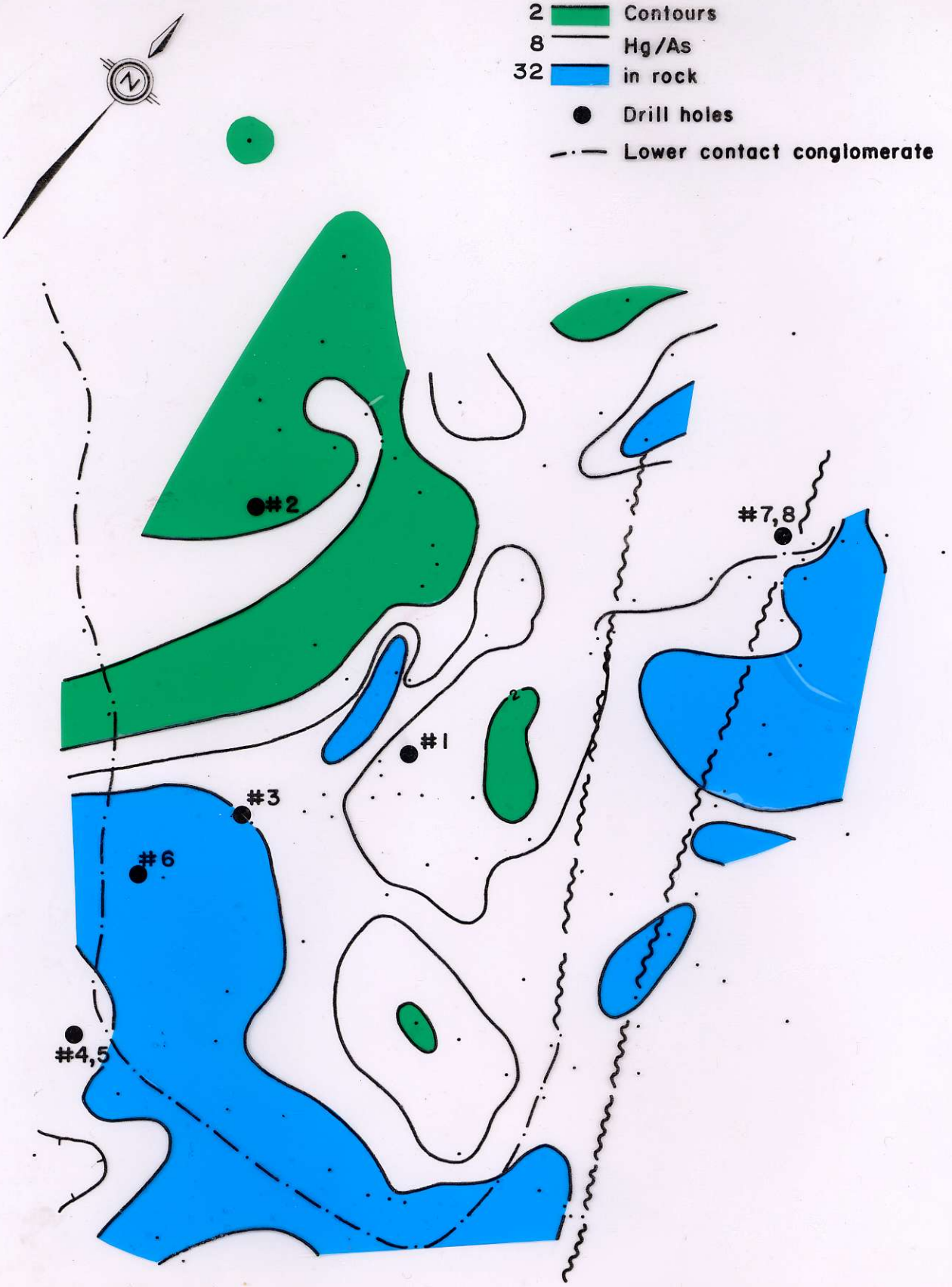

N
0
1000 ft.
KING
As. in soil >130ppm.
Hg. in soil >1000ppb.


1979 Drilling
1980 Drilling
Hg in soil >1000 ppb
" " " >5000 ppb
Hg in rock >5000 ppb
Silica
Pyrite
Felsic igneous
Conglomerate
Argillite
Limy argillite
Sandstone
0 FEET 1000
Au in soil >20ppb
As in soil >130 ppm
" " " >1000 ppm
As in rock >200 ppm
" " " >1000 ppm
KING



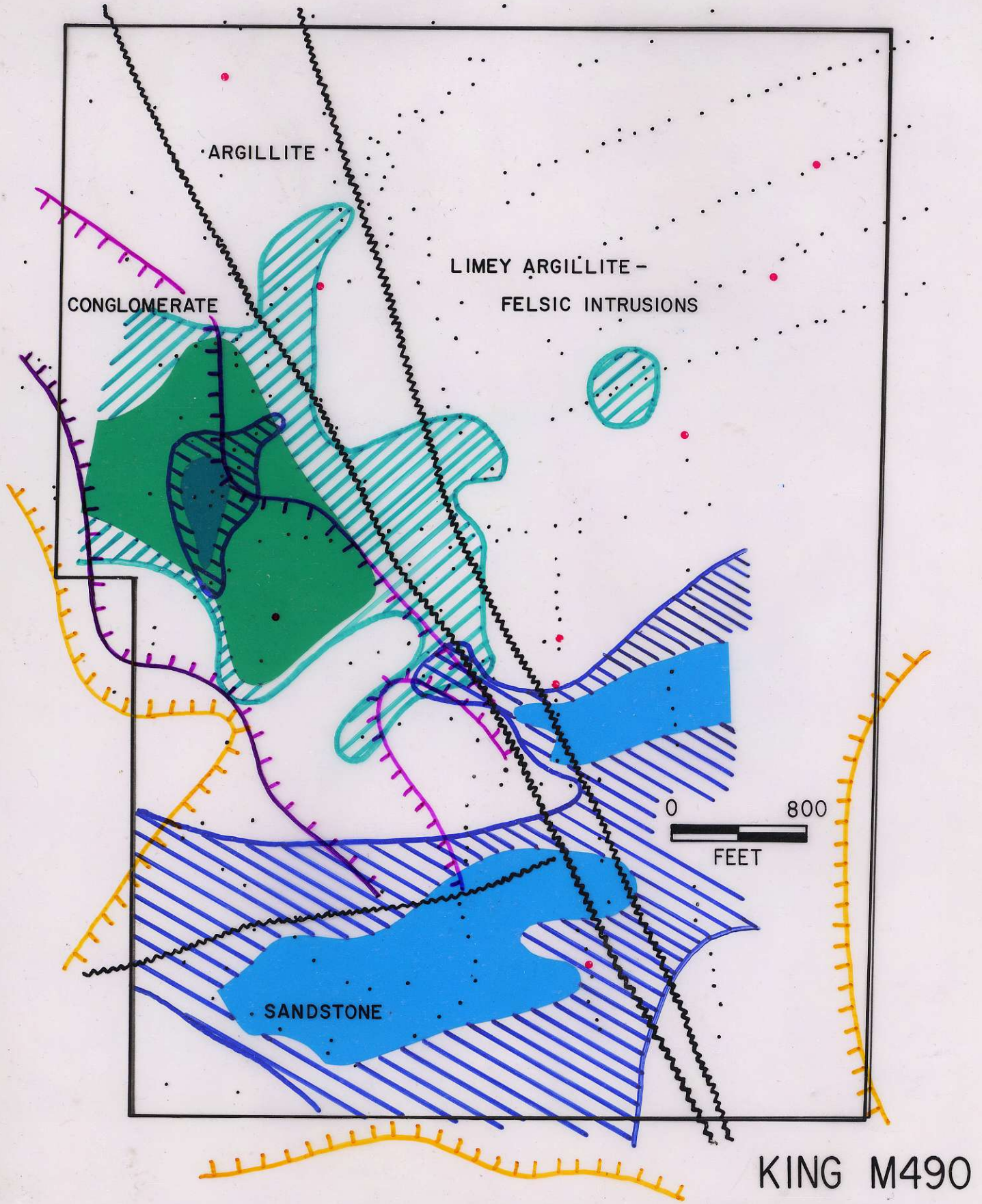
SOURCE DIRECTION INDICATED

KING



SOURCE DIRECTION INDICATED

KING


ARGILLITE
LIMEY ARGILLITE -
FELSIC INTRUSIONS
CONGLOMERATE
SANDSTONE
0
800
FEET
KING M490
Au > 15 PPB
PYRITE
SILICIFICATION
As > 500 PPM
As > 1000 PPM
Hg > 2500 PPB
Hg > 10,000 PPB