

81-1077 ⇒ GOV'T
9837

1981 DRILL PROGRAM

KING #10 CLAIM

GHOST CREEK, QUEEN CHARLOTTE ISLANDS, B. C.

53° 26' N

SKEENA MINING DIVISION

103F/8W

Owner: Chevron Canada Limited

Operator: Chevron Standard Limited

D. Arscott

November 26, 1981

MINERAL RESEARCH
ASSOCIATION
NO. **9837**

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Fig. 1: Location and claims (1:50,000)
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INTRODUCTION

This report describes one drill hole on the King property. The hole (#81-K-1) can be considered an extension of the 1980 drilling program.

The hole is vertical, 169.8 m deep, and was drilled between 4th November 1981 and 12th November 1981. The drill used was a lightweight Hydracore 28, with a Hatz 2 cylinder diesel motor, and BQ wireline equipped.

The intent of the drilling was to locate disseminated gold mineralization at the western end and presumed bedrock source of a major As-Hg geochemical anomaly. The previous drilling and surface work had outlined both more suitable alteration and a well-defined increase in the As-Hg ratio in this direction.

ACCESS

The area drilled is accessible by helicopter or by a 1 hour drive (32 km) from Queen Charlotte City plus 45 minutes walking. The road access is via the McMillan Bloedel Mainline and the Ghost Creek tributary (Branch 46) logging road (see Figure 1).

CLAIMS

The following claims, all registered in the name of Chevron Canada Limited, and held under option from JMT Services Corp., comprise the following:

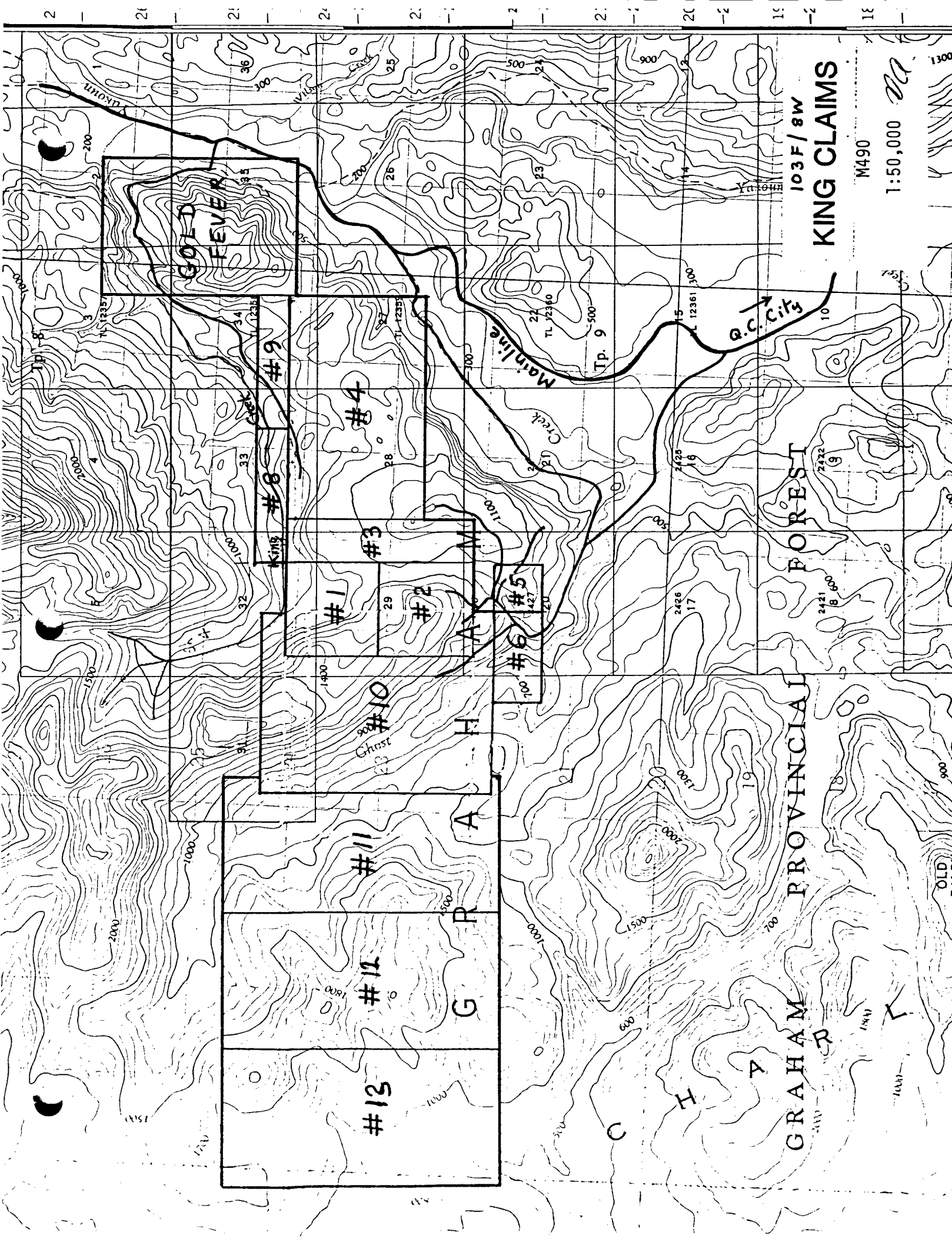
<u>NAME</u>	<u>RECORD NO.</u>	<u>RECORD DATE</u>	<u>NO. OF UNITS</u>
KING #1	455	1 Nov. '77	4
" #2	447	13 Oct. '77	4
" #3	448	"	4
" #4	1180	19 Mar. '79	15
" #5	1181	"	1
" #6	1182	"	2
" #8	1750	27 Sep. '79	3
" #9	1751	"	3
" #10	2178	5 Mar. '80	20
" #11	2698	2 Dec. '80	18
" #12	2699	"	18
" #13	2700	"	18
GOLD FEVER	1752	27 Sep. '79	12

DISCUSSION

Geological and geochemical surface work from 1977 to 1979 outlined a very major zone anomalous in As and Hg, and to a very small extent, in Au.

A percussion drilling program in 1979 penetrated the eastern end of the anomaly, and indicated that the anomalous values were present only in the overburden.

A 5-hole diamond drilling program in 1980, placed on the central to western end of the anomaly, located the anomalous values in bedrock. Au was, however,



GOLD FEVER

King #8 #9

#4

#3

#1

#2

#5

#6

#10

#11

#12

#13

MAINLINE

Creek

Q.C. City

FOREST

GRAHAM PROVINCIAL FOREST

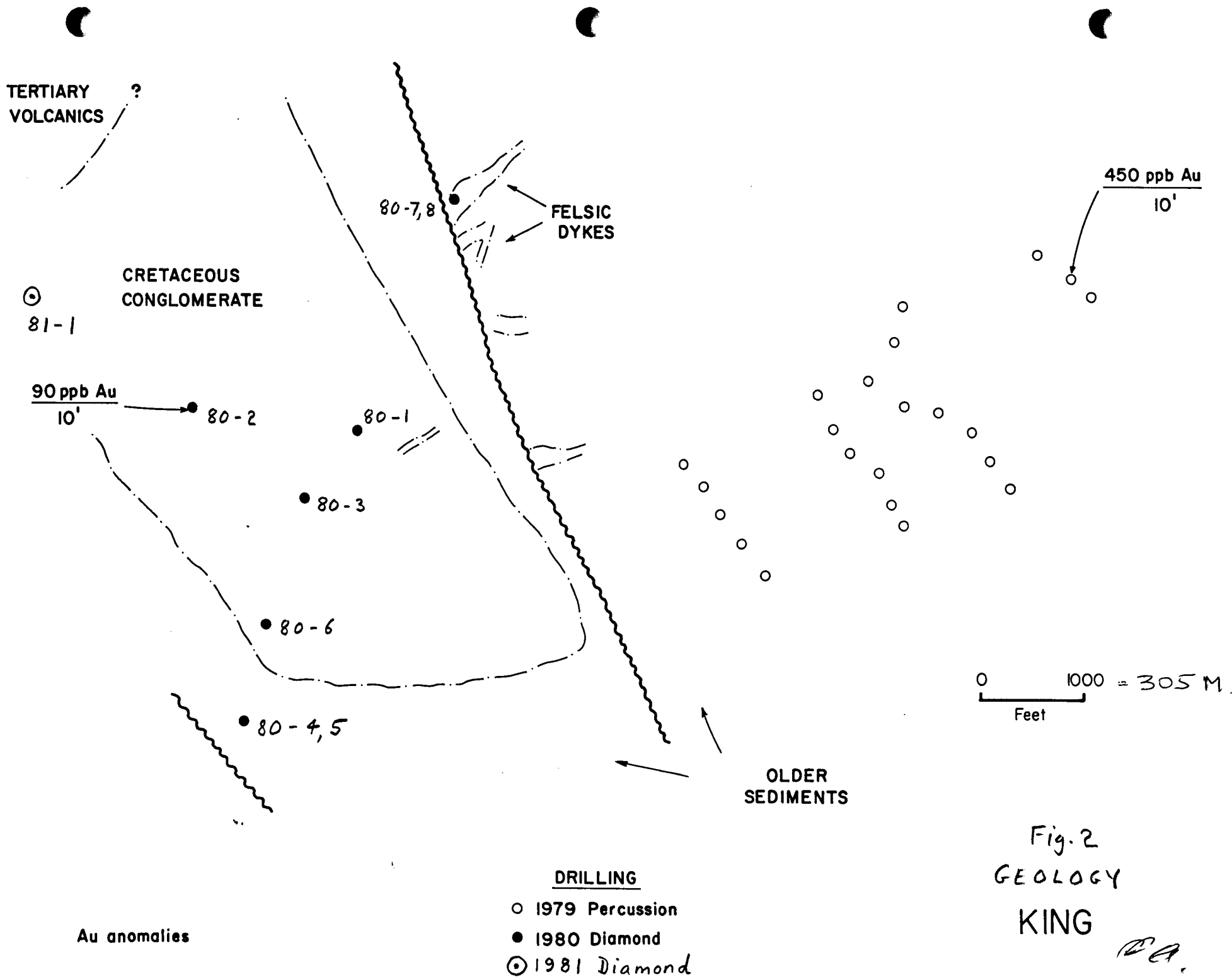
103 F/8W

KING CLAIMS

M490

1:50,000

20



TERTIARY VOLCANICS ?

CRETACEOUS CONGLOMERATE

FELSIC DYKES

OLDER SEDIMENTS

Au anomalies

DRILLING

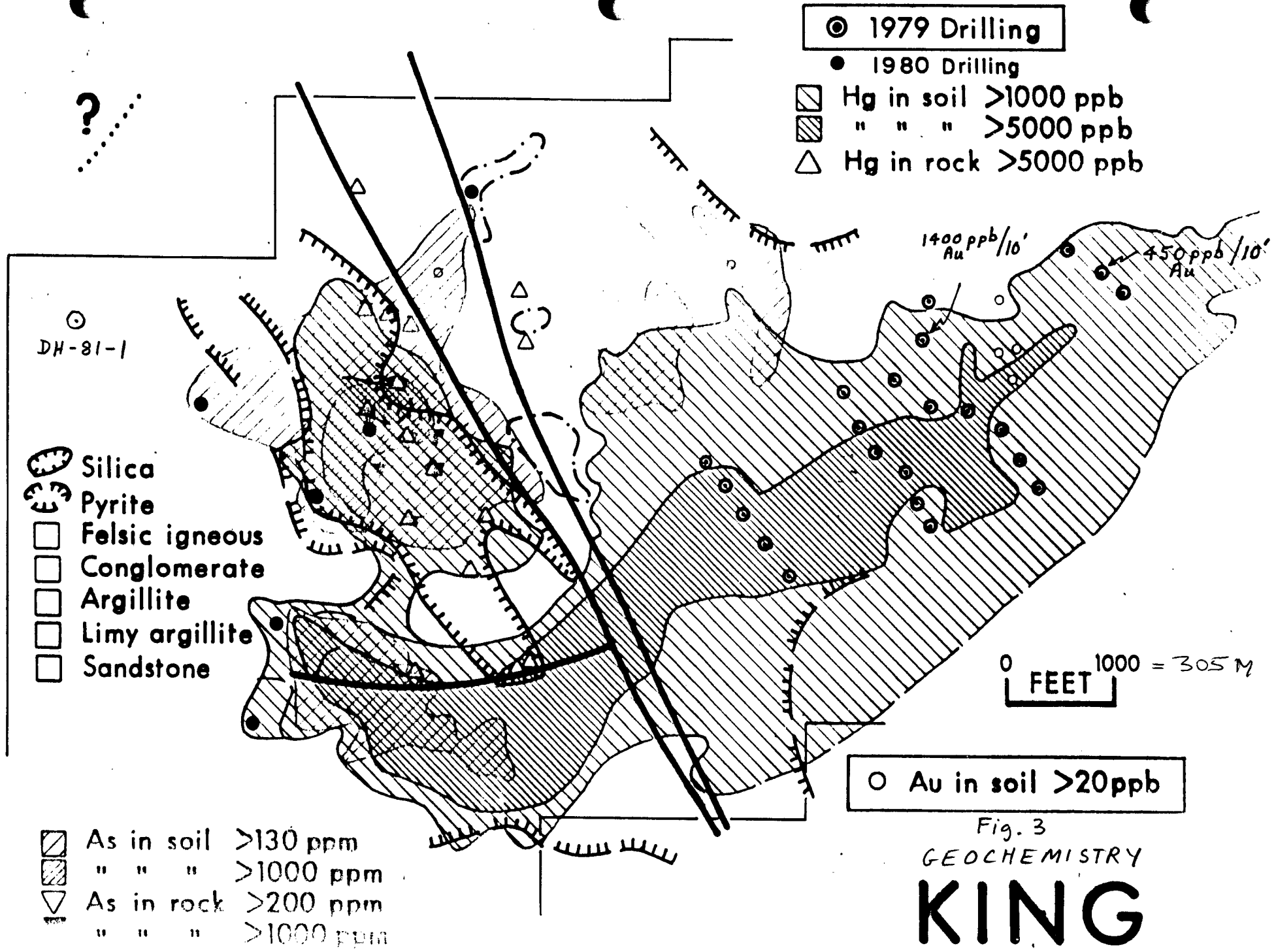
- 1979 Percussion
- 1980 Diamond
- ⊙ 1981 Diamond

0 1000 = 305 M. Feet

Fig. 2
GEOLOGY

KING

PA.

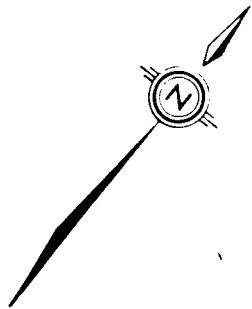


○ Au in soil >20ppb

Fig. 3
GEOCHEMISTRY

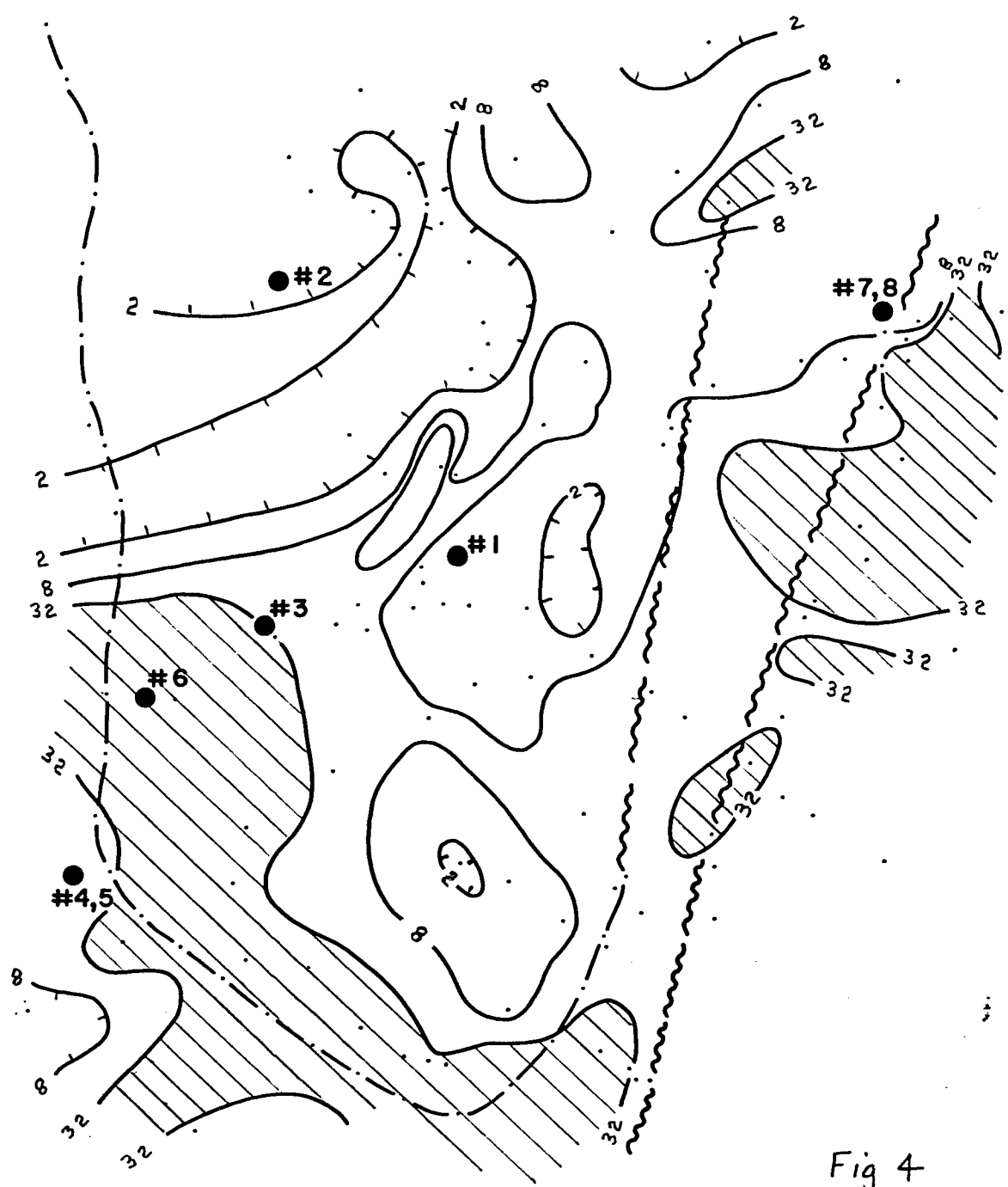
KING

P.A.



- 2 — Contours
- 8 — Hg/As
- 32 in rock
- 1980 ● Drill holes
- Lower contact conglomerate

⊙ DH-81-1



0 — 300
metres

Fig 4
Hg/As RATIOS

KING D.A.

still lacking. The better values in As and Hg were found to be (a) concentrated at the lower contact of the conglomerate capping the hill between Ghost and King Creeks and (b) showing a dramatic increase in As versus Hg in the westerly direction. In addition drill hole #2 showed greater, (though still only moderate) silicification than the other holes.

The above facts, plus the extreme amplitude of the As and Hg values, suggested that we drill at least one hole at the most extreme westerly end of the anomaly just east of where the lower conglomerate contact is eroded away by the Ghost Creek valley.

Other (surface) work in 1980 (not filed as assessment) has clearly indicated that there is no extension of the anomalies west of Ghost Creek, and that the stratigraphy there is not only different but strongly tilted relative to the section drilled. Thus, the 1981 drilling probably represents the final chance of locating an Au-productive source for the anomalies.

The 1981 drill hole intersected conglomerate with minor interbedded sandstone from surface to a depth of 168 m, with local silicification, moderate carbonate veining, and decreasing clay alteration. Very locally pyrite constitutes up to 10% of the conglomerate matrix. Some moderate to strong silicification and carbonate veining is present at the lower contact, just above a flat-lying thin bedded sandstone.

No geochemical analyses for the hole are available at time of writing, but will be appended to the report when they are returned from the laboratory.

Unless the forthcoming results show high geochemical Au values, no further work is recommended.

D. Arscott

D. ARSCOTT

PROPERTY KING, Q.C.I.

HOLE No. 81-K-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. 81-K-1 Sheet No. 1 of 8 Lat. _____ Total Depth 169.77m=557'
 Section _____ Dep. _____ Logged By Colin Harivel
 Date Begun 7 NOV 81 Bearing Vertical Claim King 10
 Date Finished 10 NOV 81 Elev. Collar _____ Core Size 80

HYDRACORE 28, Hatz 2cyl. diesel power plant TRI-MAC DRILLING

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	Carbonate	Clay	Sulphide	Silicification
0 - 1.52m (5')	no core 10' casing						
1.52 - 168.25(552')	HONNA FORMATION						
	Conglomerate: grey-green cobble and pebble conglomerate, arkosic matrix; matrix varies from 10 - 30% of volume and locally rock is sandstone; locally weakly silicified, commonly has carbonate veins and rims on cobbles and pebbles, clay alteration weak and moderate at top and decreasing to very weak in mid and lower parts of hole; silicification strong in lower parts of hole; pyrite with minor pyrrhotite as disseminated fine grains, irregular, rare stringers and partial rims: - blebs of granular pyrite associated with calcite on fractures and as networks over 1 - 2 cm, enclosing sand grains of matrix; total sulphide < 1% to 1% - up to 10 % of matrix (over 10cm interval) amid brown pervasive alteration zones throughout						
	@ 4.57(15') 10cm argillite @ 40° to core axis						
	@ 30.5m (100') 3m section of < 1% pyrite						
	@ 33.5m (110') pyrite content back to 1%						

DIAMOND DRILL RECORD

PROPERTY KING, Q.C.I., B.C.

HOLE No. 81-K-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 2 of 8 Lat. Total Depth.....
 Section..... Dep..... Logged By.....
 Date Begun NOV 6 Bearing..... Claim.....
 Date Finished NOV 10 Elev. Collar..... Core Size.....

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
	<u>32 - 48m (107' - 157')</u> weak clay and carbonate alteration ~1 - 1/2% with some sections of matrix 10% pyrite						
	<u>39 - 46m (130' - 150')</u> < 1/2% tot al pyrite diminishing to < 1/2%						
	@ 45.42m (149') gouge-mylonite + carbonate @ 55° to core axis (< 1cm)						
	@ (152') limonitized 10cm						
	<u>48 - 49.2m (157.7' - 161.5')</u> TUFF green, fine grained tuff sub Ø texture with fine grained (dust) margins/ upper contact 90° to core axis, lower ~50° to core axis						
	@ 48.46m (159') 30° fracture with bitumen						
	@ 55.17 - 55.62 (181' - 182.5') pebble conglomerate with calcite matrix 5% pyrite						
	@ 55.62 - 55.8m (182.5' - 183.1') fine(mudstone) sandstone with spectacular blebby pyrite along low angle fractures						
	@ 58.22 - 58.9m (191' - 193.3') coarse arkose 1 - 3% pyrite						
	@ 61.57 - 61.87m (202' - 203') ground core -lost						

DIAMOND DRILL RECORD

PROPERTY King, Q.C.I., B.C.

HOLE No. 81-K-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. <u>81-K-1</u> Sheet No. <u>3 of 8</u>	Lat.	Total Depth.....
Section.....	Dep.....	Logged By <u>C.H.</u>
Date Begun <u>NOV 6</u>	Bearing.....	Claim.....
Date Finished <u>NOV 10</u>	Elev. Collar.....	Core Size <u>B Q</u>

DEPTH	DESCRIPTION	% PYRITE	WIDTH OF SAMPLE			
	@ <u>63.70 - 64.31m</u> (209 - 211') relatively strong carbonate veins and fractured coatings					
	@ <u>63.09 - 71.63m</u> (207 - 235') zone of pervasive alteration weak					
	@ <u>70.10 - 71.02m</u> (230 - 233') SANDSTONE - arkosic, with mylonitized fracture 232' @ 50° to core axis	3 - 5%				
	@ <u>72.54 - 76.50m</u> (238 - 251') weak calcite veining with partially rimmed pebbles/weak pervasive clay alteration					
	@ <u>78.94m</u> (259') limonite					
	@ <u>78.94 - 86.87m</u> (259 - 285') weak calcite veins/weak to moderate pervasive alteration - light green matrix					
	@ <u>82.91 - 92.96</u> (272 - 305') more altered than previous with carbonate veins and fractured coatings	1 - 3%				
	@ <u>86.26 - 89.92</u> (203 - 295') increasing clay alteration with back mylonite and local sulphide zones up to 5%					
	@ <u>88.7 - 89.0m</u> (291 - 292') high pyrite and					

DIAMOND DRILL RECORD

PROPERTY KING, Q.C.I., B.C.

HOLE No. 81-K-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. <u>81-K-1</u> Sheet No. <u>4 of 8</u>	Lat.	Total Depth.
Section.	Dep.	Logged By. <u>C.H.</u>
Date Begun.	Bearing.	Claim.
Date Finished.	Elev. Collar.	Core Size <u>B Q</u>

DEPTH	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE			
	carbonate and minimum quartz					
	@ <u>89.46 - 89.76m</u> (293.5 - 294.5') mylonite and pyrite @ 25° to core axis					
	@ <u>92.96m</u> (305') slightly silicified local, weak					
	@ <u>100.28 - 103.02m</u> (329 - 338') broken, clay alteration locally and calcite	↳ 1%				
	@ <u>97.12m</u> (318.5') bitumen along 90° to core axis					
	@ <u>107.29m</u> (352') carbonate and bitumen over 10cm					
	@ <u>110.34m</u> (362') weak development of brown alteration; weak pervasive green alteration (1st significant pyrite since ~ (295'))					
	@ <u>110.34 - 111.87m</u> (362 - 367') up to 1% pyrite in matrix (↳ 10% rock)					
	@ <u>111.86 - 114.91m</u> (367 - 377') more closely packed conglomerate with silicification and development of brown matrix/ no significant pyrite development carbonate rims	↳ 1%				
	@ <u>114.91 - 115.82m</u> (377 - 380') SANDSTONE - arkose, with 1 - 3% pyrite decreased by 3 (380')/weak silicified/weak carbonate green colour - no brown alteration development	1 - 3%				

DIAMOND DRILL RECORD

PROPERTY KING, Q.C.I., B.C.

HOLE No. K-81-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 5 of 8 Lat. Total Depth.
 Section. Dep. Logged By.
 Date Begun. Bearing. Claim.
 Date Finished. Elev. Collar. Core Size.

DEPTH	DESCRIPTION	% PYRITE	WIDTH OF SAMPLE				
	@ <u>115.82 - 117.04m</u> (380 - 384') weak sulphide, start strongly silicified, matrix < 10% - commonly brown - very hard						
	@ <u>117.04 - 122.53m</u> (384 - 402') loosely packed conglomerate/green matrix up to 30% commonly coarse grained sandstone - up to 1% pyrite	1%					
	weak carbonate alteration with some rims of carbonate, irregular fractures, well silicified						
	@ <u>122.53 - 124.05m</u> (402 - 407') SANDSTONE - arkosic, similar to conglomerate matrix /weak irregular carbonate veins, not silicified	< 1%					
	@ <u>122.83m</u> (403') 3mm carbonate vein with and hydrocarbons ribbons and weak associated pyrite						
	(407 - 408') transition to conglomerate						
	(408 - 445') green and locally altered to brown matrix/ generally silicified, massive	1 - 2%					
	@ <u>127.71 - 128.02m</u> (419 - 420') carbonate veins 30 - 40° to core axis						
	(445 - 457') relatively soft/develop-						

DIAMOND DRILL RECORD

PROPERTY KING, Q.C.I., B.C.

HOLE No. K-81-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No.	Sheet No. <u>6 of 8</u>	Lat.	Total Depth.
Section.	Dep.	Bearing.	Logged By.
Date Begun.	Date Finished.	Elev. Collar.	Claim.
			Core Size.

DEPTH	DESCRIPTION	% PYRITE	WIDTH OF SAMPLE			
	me nt of clay alteration and concomitant increase in sulphide					
	<u>139.60m</u> (458') weak stringers of pyrite with pervasive development of carbonate	∠1%				
	@ <u>138.07</u> (453') some gouge @ 45° to core axis					
	@ <u>139.29 - 144.17</u> (457 - 473') pervasively diloritized still 1% and some clay alteration but locally and increasingly silicified; generally weak carbonate pyrite rims (minor)	∠ 1%				
	@ <u>142.04 - 142.37</u> (466 - 467') significant fracture pyrite ∩ 3% by (473') development of biotite in altered matrix					
	@ <u>144.17 - 146.61</u> (473 - 481') brown alteration, strong silicification with 1 - 2% pyrite as rims and fracture coatings which decreases to ∠ 1% disseminated grains	1 - 2%				
	@ <u>146.61 - 148.44m</u> (481 - 487') green matrix, pervasively altered/carbonate ∠ 1%, intensifies in matrix and around fragments					
	@ <u>148.44 - 148.74m</u> (487 - 488') brown pervasively altered matrix/still moderately silicified					

DIAMOND DRILL RECORD

PROPERTY KING, Q.C.I., B.C.

HOLE No. K-81-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. Sheet No. 7 of 8 Lat. Total Depth

Section

Date Begun

Date Finished

Dep. Logged By

Bearing

Elev. Collar

Claim

Core Size

DEPTH	DESCRIPTION	% PYRITE	WIDTH OF SAMPLE				
	@ 148.74 - 150.27m (488 - 493') green matrix with weak pyrite < 1%	< 1%					
	@ 150.27 - 150.57 (493 - 494') SANDSTONE very fine grained pyrite < 1%	< 1%					
	@ 150.57 - 150.88m (494 - 495') as for(488-493)						
	@ 150.88 - 151.10 (495 - 495.7') TUFF 70° to core axis contacts fracture pyrite 1%	1%					
	@ 151.10 - 151.79m (495.7 - 498') Green matrix conglomerate moderate silicification weak fracture carbonate/moderate silicification						
	@ 151.79 - 154.23m (498 - 506.3') green with brown alteration/moderate silicification 1 - 1/2%	1 - 1/2%					
	@ 152.70 (501') mylonite < 10% wide						
	@ 153.62m (504') gouge slip 40° to core axis						
	@ 154 - 155.4m (506.3 - 510') TUFF sub Ø with dust or chilled margins/very weak and fractured pyrite, carbonate fractures with pyrite grains - weak silicified						
	@ 155.4 - 158.50m (510 - 520') green matrix						

DIAMOND DRILL RECORD

PROPERTY KING, Q.C.I., B.C.

HOLE No. K-81-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. K-81-1 Sheet No. 8 of 8 Lat. Total Depth.....
 Section..... Dep..... Logged By.....
 Date Begun..... Bearing..... Claim.....
 Date Finished..... Elev. Collar..... Core Size.....

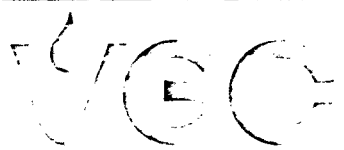
DEPTH	DESCRIPTION	% PYRITE	WIDTH OF SAMPLE				
	with hard carbonate sub parallel set of veinlets	1/2-1%					
	pyrite common						
	157.58m (517') 1% pyrite as wisps						
	and rims and disseminated						
	158.5 - 160.9m (520 - 528') green, slightly						
	less silicified with strong low angle carbonate						
	vein alteration	< 1%					
	160.93 - 164.99 (528 - 541.5') green and some						
	brown alteration in matrix	1/2 - 1%					
	165 - 165.35m (541.5 - 542.5') strong carbonate						
	fracture at angle to 0°						
	165.35 - 168.25m (542.5 - 552') strong or mod-						
	erate silicified 1 - 3% weak and moderate car-						
	bonate with carbonate veins @ 15° at angle to						
	0°, 40°, 60°						
	(552 - 557') SANDSTONE 168.25 -						
	(552 - 557') thin bedded green and brown	1 - 3%					
	80° - 90° to core axis						
	END OF HOLE - contact penetrated; at extreme						
	limit of equipment						

DRILL HOLE 81-K-1

SAMPLE TAGGING

<u>Footage</u>	<u>Sample No.</u>
2 - 10	475
10 - 15	476
15 - 20	477
20 - 25	478
25 - 30	479
30 - 35	480
35 - 40	481
40 - 45	482
45 - 50	483
50 - 55	484
55 - 60	485
60 - 65	486
65 - 70	487
70 - 75	488
75 - 80	489
80 - 85	490
85 - 90	491
90 - 100	492
100 - 110	493
110 - 120	494
120 - 130	495
130 - 140	496
140 - 150	497
150 - 160	498
160 - 170	499
170 - 180	500
180 - 190	501
190 - 200	502
200 - 210	503
210 - 220	504

<u>Footage</u>	<u>Sample No.</u>
220 - 230	505
230 - 240	506
240 - 250	507
250 - 260	508
260 - 270	509
270 - 280	510
280 - 290	511
290 - 300	512
300 - 310	513
310 - 320	514
320 - 330	515
330 - 340	516
340 - 350	517
350 - 360	518
360 - 370	519
370 - 380	520
380 - 390	521
390 - 400	522
400 - 410	523
410 - 420	524
420 - 427	525
450 - 460	526
460 - 470	527
470 - 480	528
480 - 490	529
490 - 500	530
500 - 510	531
510 - 520	532
520 - 530	533
530 - 540	534
540 - 550	535
550 - 553	536
553 - 557	537
537	END OF HOLE



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Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Chevron Standard Ltd.

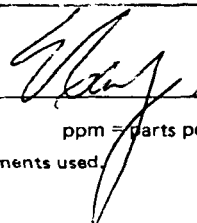
Attention:

Report No: 81-30-064 Page 3 of 4
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Sample Marking	Au ppb	Hg ppb	As ppm	Sb ppm		
467	10	70	4	nd		
468	nd	70	10	nd		
469	nd	200	10	nd		
470	nd	145	10	nd		
471	M481	70	10	nd		
472	↑	75	4	nd		
473	↑	70	10	nd		
474	↑	50	10	nd		
475	↑	45	60	nd		
476	↓	30	80	nd		
477	↓	25	80	nd		
478	KING	30	80	nd		
479		40	35	nd		
480		70	35	nd		
481		60	35	nd		
482	nd	110	40	nd		
483	nd	160	35	nd		
484	10	125	30	nd		
485	10	130	80	nd		
486	10	150	200	nd		
487	nd	80	60	nd		
488	nd	100	35	nd		
489	nd	120	35	nd		
490	nd	140	60	nd		
491	nd	175	35	nd		
492	nd	350	60	nd		
493	10	160	80	nd		
494	nd	370	50	nd		
495	nd	300	80	nd		
496	nd	270	150	nd		
497	nd	320	80	nd		
498	nd	170	100	nd		
499	nd	130	300	nd		
500	nd	370	80	nd		
501	nd	320	35	nd		
502	nd	320	60	nd		
503	nd	330	80	nd		
504	nd	500	80	nd		
505 _r	nd	220	35	nd		

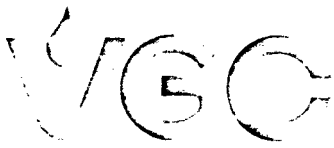
ASTEC PRINTING LTD.

REMARKS:

Signed: 

% Mo x 1.6683 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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-IN ACCOUNT WITH-
 Chevron Standard Ltd.

Report No: 81-30-064 Page 4 of 4
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Attention:

Sample Marking	Au ppb	Hg ppb	As ppm	Sb ppm		
506	nd	310	60	nd		
507	nd	270	80	nd		
508	nd	280	60	nd		
509	nd	390	80	nd		
510	nd	380	60	nd		
511	10	450	60	nd		
512	nd	2000	400	nd		
513	10	700	100	nd		
514	nd	600	80	nd		
515	10	550	60	nd		
516	nd	170	100	nd		
517	nd	150	80	nd		
518	nd	190	40	nd		
519	10	170	60	nd		
520	nd	550	100	nd		
521	nd	270	60	nd		
522	nd	170	40	nd		
523	nd	60	40	nd		
524	10	290	30	nd		
525	nd	230	20	nd		
526	nd	240	100	nd		
527	nd	280	80	nd		
528	nd	470	80	nd		
529	10	280	25	nd		
530	10	100	20	nd		
531	nd	140	20	nd		
532	10	160	35	nd		
533	nd	120	40	nd		
534	10	120	15	nd		
535	nd	150	20	nd		
536	10	140	40	nd		
537	nd	90	20	nd		

ASTEP MINING LTD

REMARKS:

Signed:

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All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

KING 1981 DRILLING
COST STATEMENT

Since all invoices have not been received as of date of writing, the following represents the absolute minimum of costs incurred.

Tri-Mac Drilling Ltd.

557 feet at 24.00/foot \$13,368.00

JMT Services Corp.

Colin Harivel, geologist, 8 days @200. 1,600.00

Chevron Standard Limited

Terry Zanger, Assistant, 8 days @100. 800.00

Vangeochem Lab Ltd.

60 analyses at 15.55 933.00

Vancouver Island Helicopters Ltd.

4 Nov. Move-in	0.9 hrs @552.00	496.80
6 Nov. "	4.5 hrs @552.00	2,484.00
7 Nov. Crew changes	0.8 hrs @433.25	346.60
	0.6 hrs @552.00	331.20
8 Nov. " "	1.2 hrs @433.25	519.90
9 Nov. " "	2.0 hrs @552.00	1,104.00
10 Nov. " "	1.1 hrs @552.00	607.20
11 Nov. Move-out	2.7 hrs @552.00	1,490.40

TOTAL 7,380.10 7,380.10

TOTAL PROGRAM COST \$24,081.10

D. Arscott

D. ARSCOTT

STATEMENT OF QUALIFICATIONS

I, David Philip Arscott, am a Professional Engineer registered in British Columbia with an office address at 901 - 355 Burrard Street, Vancouver, B. C. V6C 2G8

The 1981 King drill program was carried out under my direction.

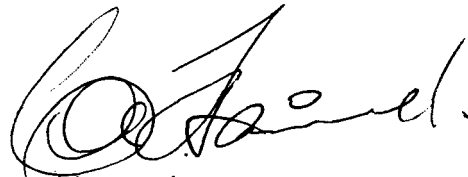
D. Arscott

DAVID ARSCOTT, P.Eng.

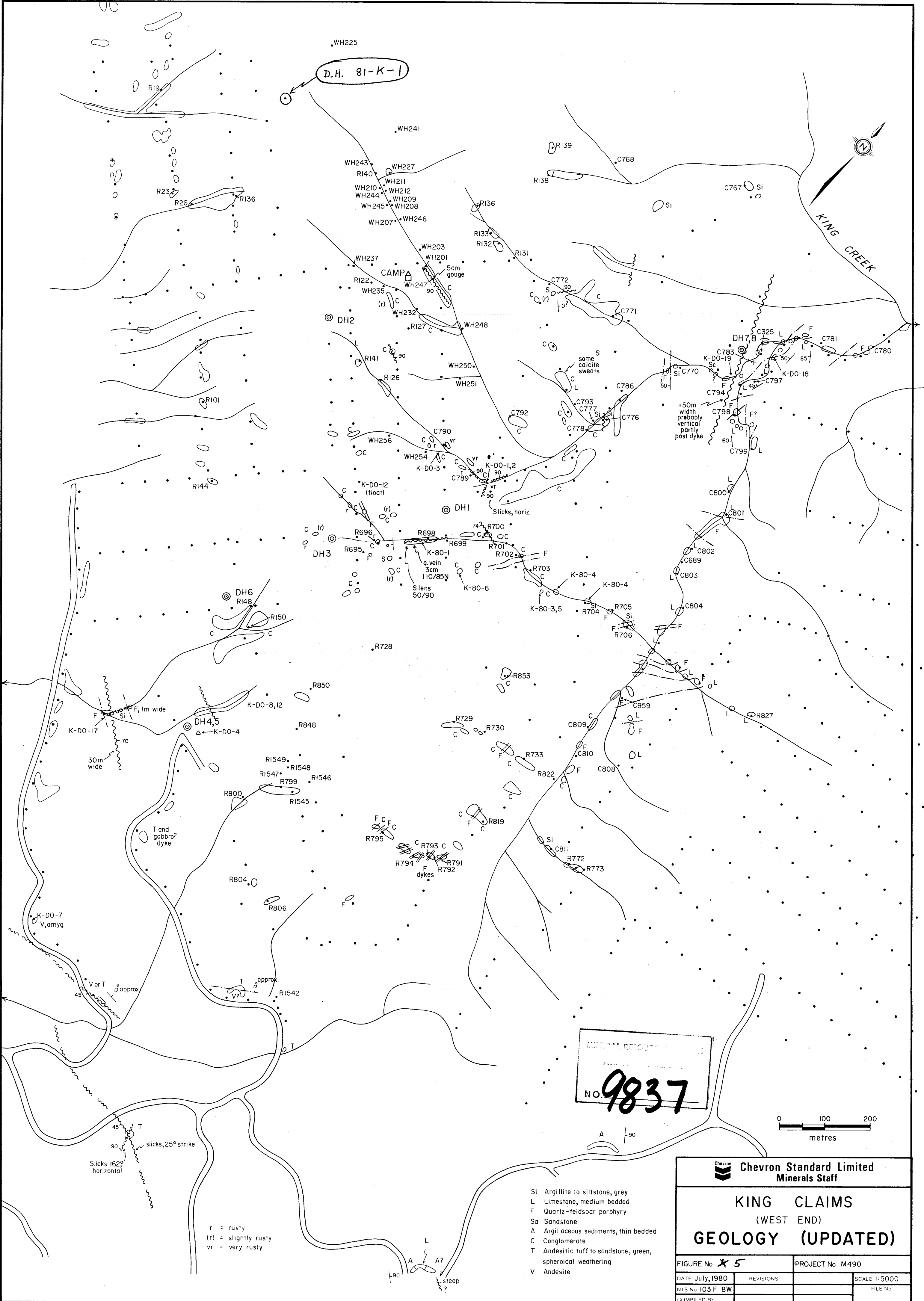
STATEMENT OF QUALIFICATIONS

I, Colin Harivel, of Vancouver, British Columbia, do hereby certify that:

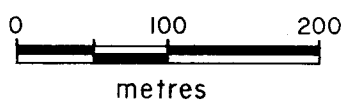
1. I am a geologist residing at 3996 West 10th Avenue
Vancouver, British Columbia
2. I am a graduate of the University of British Columbia;
B.Sc. Honours Geology, 1972
3. I have practised my profession as a mining exploration
geologist continuously since 1972
4. I am a Fellow of the Geological Association of Canada.



Colin Harivel, B.Sc.



MINERAL RECORDS
 NO. 9837



Chevron Standard Limited Minerals Staff

KING CLAIMS (WEST END) GEOLOGY (UPDATED)

FIGURE No. 5	PROJECT No. M490
DATE July, 1980	REVISIONS
NTS No 103 F 8W	SCALE 1:5000
COMPILED BY	FILE No.