

6312

77-#196-

ASSESSMENT REPORT

ON THE

KIM CLAIMS

KIMBERLEY, B. C.

LONGITUDE  $49^{\circ}40'$

LATITUDE  $115^{\circ}51.5'$

NTS 82G-12E

by

J. W. SIMPSON, M.Sc.

for

Chevron Standard Limited  
Minerals Staff

Vancouver, B. C.  
June 7, 1977

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

NO. \_\_\_\_\_

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## I INTRODUCTION

Drill Hole K-14 was originally drilled to a depth of 482' in 1975. It was deepened to 1003' in 1976 and further deepened in 1977 to 1763'. On April 14, 1977 coring began and was completed on May 16, 1977. Three visits were made to the drill site to examine core during drilling progress.

Short samples of core were collected, at 10' intervals, and were analyzed geochemically for Cu, Zn, Pb, Ag and Na<sub>2</sub>O. These data are shown with the drill logs (Appendix 1).

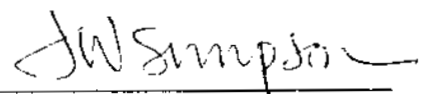
## II DETAILS OF HOLE

Collar elevation is approximately 3800' and dip at the collar is -90°. Two acid tests were taken at 1003' and 1505' showing only minor flattening.

Excellent core recovery was obtained of B.Q. size from 1003 to 1763'.

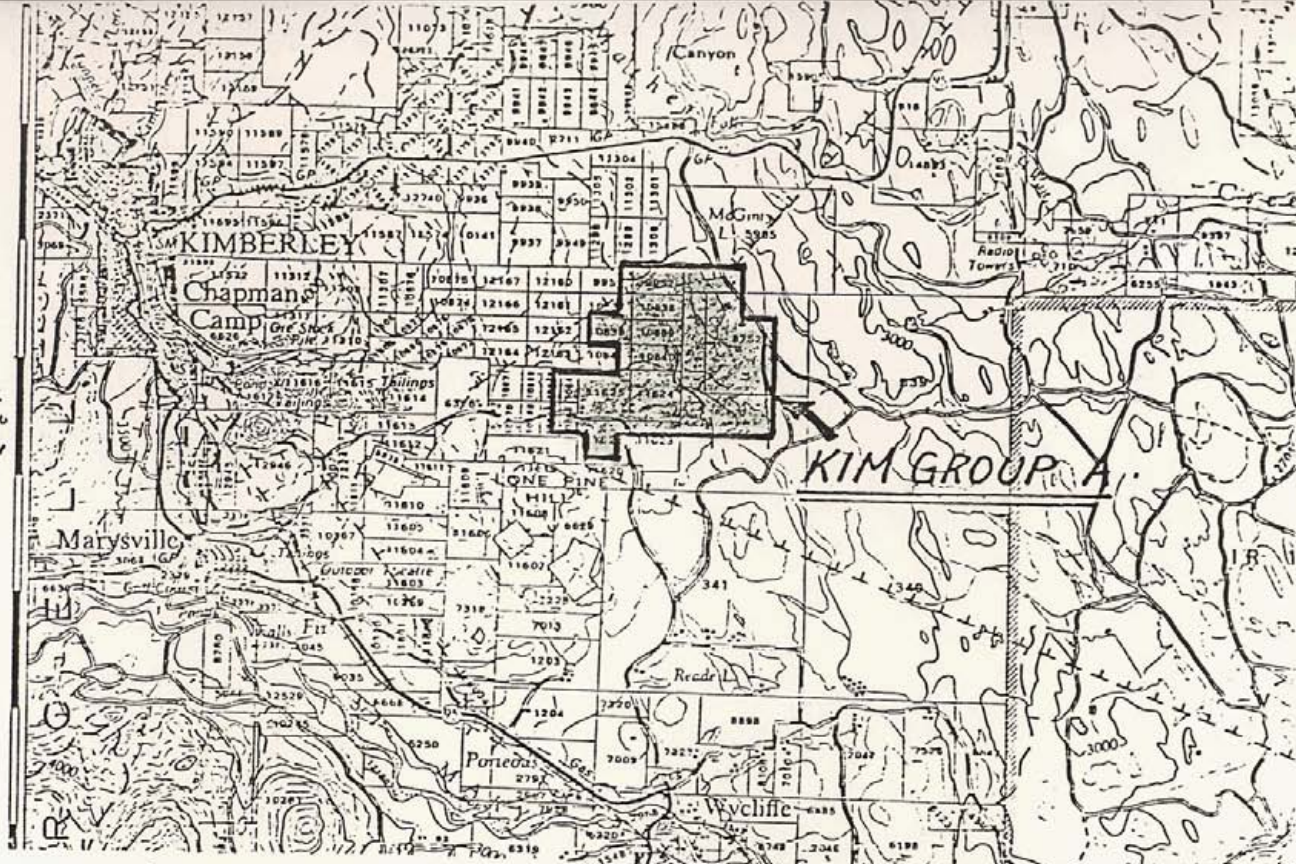
## III CORE STORAGE

All of the core from the hole is stored by E. Frost, General Delivery, Fort Steele, B. C.



J. W. SIMPSON

40°  
40'



06	3425	07	3425	08	3425	09	3425	10	3425	11	3425	12	3425	13	3425	14	3425	15	3425	16	3425	17	3425	18	3425	19	3425	20	3425	21	3425	22	3425	23	3425	24	3425	25	3425	26	3425	27	3425	28	3425	29	3425	30	3425	31	3425	32	3425	33	3425	34	3425	35	3425	36	3425	37	3425	38	3425	39	3425	40	3425	41	3425	42	3425	43	3425	44	3425	45	3425	46	3425	47	3425	48	3425	49	3425	50	3425	51	3425	52	3425	53	3425	54	3425	55	3425	56	3425	57	3425	58	3425	59	3425	60	3425	61	3425	62	3425	63	3425	64	3425	65	3425	66	3425	67	3425	68	3425	69	3425	70	3425	71	3425	72	3425	73	3425	74	3425	75	3425	76	3425	77	3425	78	3425	79	3425	80	3425	81	3425	82	3425	83	3425	84	3425	85	3425	86	3425	87	3425	88	3425	89	3425	90	3425	91	3425	92	3425	93	3425	94	3425	95	3425	96	3425	97	3425	98	3425	99	3425	100	3425
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DDH  
K-14



115° 51.5' // 45'  
To Moyie To Yahk - 38 miles  
SCALE 1 1/2 mi

#6312

FIGURE 1

LOCATION MAP,  
KIM GROUP CLAIMS

J. Simpson June 12/77

SCALE 1:50,000

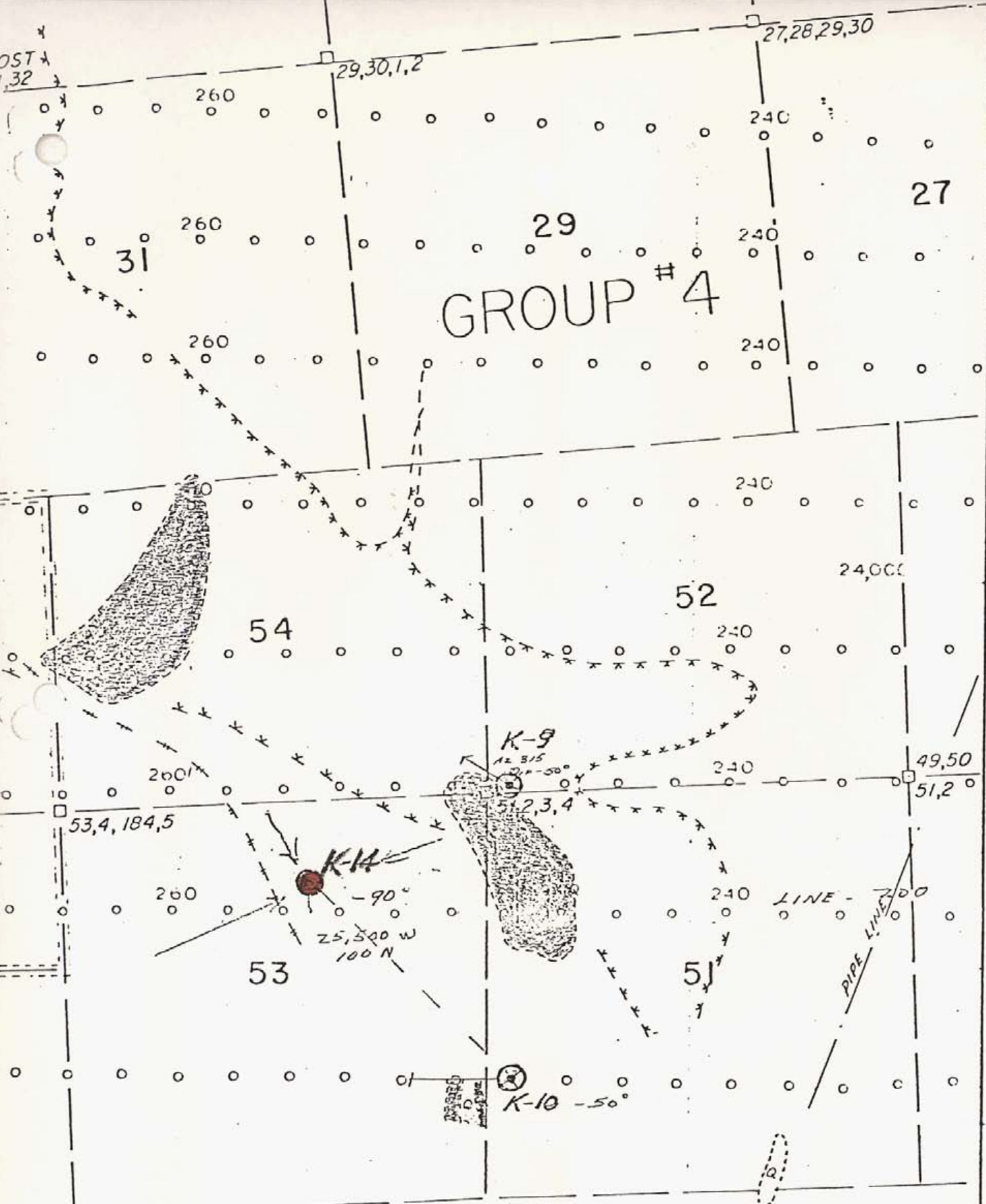


FIGURE 2 #6312

DDH K-14 LOCATION

SCALE 1" = 500'

JW Simpson  
June 17/77

5.76

APPENDIX 1

DIAMOND DRILL LOG

# DIAMOND DRILL RECORD

PROPERTY KIM

HOLE No. K-14

DIP TEST		
Footage	Angle	
	Reading	Corrected
1003	-86°	
1505	-82°	

Hole No. K-14 Sheet No. 1 Lat. \_\_\_\_\_ Total Depth 1763'  
 Section \_\_\_\_\_ Dep. \_\_\_\_\_ Logged By JWS  
 Date Begun April 14, 1977 Bearing \_\_\_\_\_ Claim \_\_\_\_\_  
 Date Finished May 16, 1977 Elev. Collar \_\_\_\_\_ Core Size BQ

Core recovery 95%

DEPTH	DESCRIPTION	SAMPLE No.	Cu				Ag	Na <sub>2</sub> O
			WIDTH OF SAMPLE	Pb	Zn			
1003-1145	Diabase dyke - dark green med. grained calcite veinlets fairly common - contact grades over 1'	*						
1145-	fine grained light grey quartzite with minor disseminated pyrite, milky white quartz fills some irregular fine veinlets, minor banding			* NOTE				
1155-1156'	- fairly intense chlorite alteration followed by typical quartzite	1155						
1170-1172'	- 1' core lost							
	minor chlorite alteration 1164, 1169, 1177	1160	2	8	17	0.2	1.97	
	<u>S</u> 1170 shows alteration and normal quartzite	1170	3	3	35	0.2	1.18	
	these "zones" are ≈ 2" - 8" wide, minor banding (light - dark bands) shows core angle is about 45°							
1175-1189	- banding rare, white quartzite generally	1180	3	5	14	0.2	0.26	
	darker color after 1189 - greenish irregular bands probably clay rich	1190	5	18	75	0.2	2.50	
1198-1201	- med. grained quartzite with whitish grains - possibly albite? Minor sulphide (pyrite) still persists notably in veinlets now.	1200	11	15	16	0.2	0.74	
1208-1213	- dark grey with a few white "fragments" to ¼" rounded soft - possibly kaolin, considerable variability in colors and grainsize in this section - still all quartzite however	1210	25	12	29	0.2	3.42	

# DIAMOND DRILL RECORD

PROPERTY KIM

HOLE No. K-14

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. K-14 Sheet No. 2 Lat. .... Total Depth.....  
 Section..... Dep..... Logged By..... JWS  
 Date Begun..... Bearing..... Claim.....  
 Date Finished..... Elev. Collar..... Core Size.....

DEPTH	DESCRIPTION	SAMPLE No.	Cu				
			WIDTH OF SAMPLE	Pb	Zn	Ag	Na <sub>2</sub> O
	1216-1217 - fairly coarse - like <u>S</u> 1200; after 1222 -	1220	5	12	42	0.2	3.95
	more uniform light grey moderatley banded quartzite	1230	1	22	14	0.2	0.68
	see <u>S</u> 1230, possibly finer grain, fractures often show						
	bleaching						
	1230-1241 - minor kaolin(?) again	1240	1	6	8	0.2	1.20
	1245-1247 - minor kaolin	1250	37	10	40	0.2	3.27
	1256 - possibly trace galena - along fracture with	1256					
	pyrite see <u>S</u> uniform med. grey quartzite continues to	1260	1	6	10	0.2	1.92
	about 1279 - banding then more prominent	1270	45	8	14	0.2	2.67
	1280 - trace chalcopyrite with pyrite	1280	4	14	29	0.2	1.20
	lithology still constant and more uniform color	1290	32	10	32	0.2	1.54
	from 1290 on						
	1332 - fault gouge - very broken core for 2 - 3' before	1300	53	5	39	0.2	1.56
	and 20' afterwards	1310	20	4	20	0.2	1.75
		1320	47	38	85	0.2	2.05
		1330	24	30	34	0.2	2.00
	1356-1361 - fault gouge about 2' core lost	1340	5	24	29	0.2	1.92
	no sulphides after fault lithology quite uniform again -	1350	5	12	8	0.2	1.87
	med. grey fine grained quartzite minor greenish	1360	1	2	66	0.2	1.16
	(clay rich) bands moderate pyrite @ 1400' and bleaching	1370	20	4	56	0.2	0.70
	along fractures	1380	10	41	194	0.2	2.20



# DIAMOND DRILL RECORD

 PROPERTY KIM

 HOLE No. K-14

DIP TEST		
	Angle	
Footage	Reading	Corrected

 Hole No. K-14 Sheet No. 3  
 Section .....  
 Date Begun .....  
 Date Finished .....

 Lat. ....  
 Dep. ....  
 Bearing .....  
 Elev. Collar .....

 Total Depth .....  
 Logged By JWS .....  
 Claim .....  
 Core Size .....

DEPTH	DESCRIPTION	SAMPLE No.	Cu				Na <sub>2</sub> O
			<del>WAX</del> XPS	Pb	Zn	Ag	
		1390	23	6	80	0.2	1.41
		1400	67	175	300	0.2	2.35
		1410	4	10	34	0.2	2.92
		1420	1	10	20	0.2	2.57
	after $\approx$ 1515 banding becomes more pronounced -	1430	24	26	26	3.8	0.49
	laminations and larger bands up to 2 cm common	1440	1	8	16	0.2	2.25
		1450	34	16	48	0.2	1.52
		1460	3	3	34	0.2	3.45
		1470	1	20	35	0.2	2.71
		1480	6	10	140	0.2	2.60
		1490	35	34	140	0.2	2.17
		1500	9	7	48	0.2	2.15
		1510	1	2	20	0.2	1.77
		1520	15	2	48	0.2	1.34
		1530	10	16	21	0.2	1.93
	1537-1538½ - quartzite breccia - probably caused by soft	1540	10	6	50	0.2	1.50
	sediment slump, quartzite with fine argillaceous	1550	13	12	52	0.2	1.73
	partings continues, contains 2-3% disseminated pyrite	1560	3	8	48	0.2	1.24
	1548-1549 - several small gashes, filled with buff	1570	62	22	71	0.2	2.28
	colored quartz-carbonate mixture, up to 2 mm wide	1580	10	13	38	0.2	2.10
1548-1587	quartzite breccia zone - several breccias up to 4' thick	1590	40	134	400	0.5	2.11

# DIAMOND DRILL RECORD

 PROPERTY KIM

 HOLE No. K-14

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. <u>K-14</u>	Sheet No. <u>4</u>	Lat. ....	Total Depth .....
Section .....	Dep. ....	Logged By <u>JWS</u>	Claim .....
Date Begun .....	Bearing .....	Core Size .....	
Date Finished .....	Elev. Collar .....		

DEPTH	DESCRIPTION	SAMPLE No.	Cu <del>OF SAMPLE</del>	Pb	Zn	Ag	Na <sub>2</sub> O
	in this zone. Two main types are (a) finely comminuted	1600	22	40	76	0.2	1.86
	fragments in quartz matrix and (b) large fragments	1610	38	18	146	0.2	1.83
	(showing deformed lamination) up to 3 cm across. No	1620	34	117	500	0.2	2.10
	matrix. Slumps at two different stages in diagenesis are	1630	16	30	60	0.2	1.43
	probable cause. (a) represents partly lithified condition	1640	10	28	74	0.2	1.23
	and (b) soft sediment.	1650	26	50	260	0.2	2.13
	1581-1583 - whitish fracture fillings similar to	1660	38	130	300	1.0	3.92
	1548-1549	1670	14	80	82	0.5	3.09
	1585 - trace galena on fracture	1680	12	30	88	0.2	1.60
	1586 - small bleb of galena and sphalerite on fracture. S	1690	16	33	50	0.2	4.45
1587 - 1763	dark grey quartzite, fine grained, occasional lamination	1700	14	22	76	0.2	2.32
	of black argillaceous material. Core angle still	1710	22	12	68	0.2	1.76
	about 45°.	1720	10	12	92	0.2	2.76
	1598-1601 - broken core - whitish quartzite with minor	1730	12	22	58	0.2	2.35
	disseminated pyrite S @ 1601' shows fine white crystals						
	which are possibly kaolin after F.P.						
	Color of rock varies considerably in short intervals						
	but generally it is darker on fresh surface than rocks						
	above the breccia zone.						
1763	End of hole						

APPENDIX 2  
STATEMENT OF COSTS

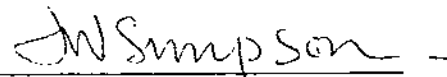
<u>DATE</u>	<u>EMPLOYEE OR CONTRACTOR</u>	<u>FUNCTION</u>	<u>COST</u>
April 14 - 17	G. Laforme	set up drill	880.00
April 28 - May 16 (4 days)	J. Simpson	(log core (supervise (drilling	800.00
April 20 - May 16	E. Frost	pick up and store core	306.50
May 20	Bondar-Clegg	geochem	444.20
April 14 - May 16	Connors Drilling	drilling	<u>18,490.46</u>
			<u>20,921.16</u>

APPENDIX 3

STATEMENT OF QUALIFICATION

J. W. SIMPSON

- (1) Graduated from University of Toronto, 1967  
Geology, B.Sc.
- (2) Graduated from University of Toronto, 1970  
Geology, M.Sc.
- (3) Employed by Ducanex Resources, Regional Geologist  
1970 - 1973 (Vancouver)
- (4) Self employed, consulting geologist 1973 - 1974 (Vancouver)
- (5) Employed by Chevron Minerals 1974 to present date



J. W. SIMPSON, M.Sc.

Vancouver, B. C.  
June, 1977