

DIAMOND DRILLING



41P15NE8349 15 CAIRO

010

TOWNSHIP: Cairo

REPORT No.: 15

WORK PERFORMED BY: Minorex Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 511448	HW-81-1	515.0'	July/81	(1)

NOTES: (1) #77-82

DIAMOND DRILL RECORD

NAME OF PROPERTY HANSON-WELSH OPTION
 HOLE NO. KL-HW-81-1 LENGTH 515 feet
 LOCATION Cairo Township
 LATITUDE L1+00W DEPARTURE 9+75S
 ELEVATION _____ AZIMUTH 0° DIP -52°
 STARTED July 31, 1981 FINISHED August 5, 1981

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
Collar	-52°				
500'	-39°				

HOLE NO. _____ SHEET NO. 1
 REMARKS KL-HW-81-1
 Drilled by: Morissette Diamond Drilling Limited
 LOGGED BY Richard J. Horne
Minorex Limited

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	Au ppb	Ag ppm
					FROM	TO	TOTAL				
0	44.0	<u>OVERBURDEN</u> Very bouldery.									
44.0	49.4	Fine grained, pinkish, syenitized siltstone. Moderate disseminated pyrite throughout the section. Weakly carbonatized; also minor carbonate stringers. - At 44'3", 1/16" wide carb., sulphide, quartz vein @ 60° to C/A; brick-red alteration (hematite) is present on the walls of the vein. - Between 44'6" - 45'2", carb. vein @ 0° to C/A. - Lower contact is gradational @ 30° to C/A.	18501		44.25	44.5	.25			145	.6
			18502		46.8	49.3	2.50			165	1.8
49.4	52.5	Brecciated, highly syenitized sediment. Fine grained as above. Brecciated throughout with angular fragments ranging up to 1 inch; the fragments are somewhat elongate, oriented @ 15° to C/A. Moderately to strongly carbonatized. Abundant fractures are filled with carbonate, specular hematite and fluorite. Minor pyrite disseminated throughout. Lower contact is sharp @ 30° to C/A, with a concentration of specular hematite and carbonate occurring there.	18503		49.3	52.35	3.05			27	.6
52.5	65.9	Red-brown, medium grained syenite. White plagioclase in an orthoclase-mafic groundmass. Minor pyrite disseminated throughout. Weakly to moderately carbonatized over entire length. Highly fractured between 55' - 56'6" and 59' - 59'6". - .25 inch specular hematite, carbonate, quartz vein at 60.1' @ 60° to C/A. - «Mud seam» at 61.4' @ 55° to C/A composed of chlorite and pyrite with some feldspar. Sharp contacts. - Many fractures with chlorite and carbonate between 55' - 59'6" @ less than 10° to C/A. - Weak schistosity between 64.4' - 65.8' @ 50° to C/A. - Lower contact is sharp @ 45° to C/A.	18504		52.35	53.7	1.35			22	.4
			18505		55.3	59.8	4.5			38	.2
			18506		59.8	60.5	0.7			38	1.4
			18507		61.1	61.6	0.5			48	.6

DIAMOND DRILL RECORD

NAME OF PROPERTY HANSON-WELSH OPTION

HOLE NO. KL-HW-81-1

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au ppb	Ag ppm
					FROM	TO	TOTAL				
65.9	66.1	Short section of fine grained syenitized sediment. Very fine disseminated pyrite peppered throughout.	18508		65.85	66.7	.95			32	1.2
66.1	66.5	Fine grained pinkish syenite. High concentration of specular hematite, fluorite, carbonate veins @ 40° to C/A.									
66.5	91.75	Weakly to moderately syenitized siltstone and greywacke. Generally uncarbonated but thin carbonate stringers are common. - Siltstone 66.5' - 77.5', 81.5' - 89.0' - Greywacke 77.5' - 81.5' - 89.0' - 91.75' - Highly syenitized between 69.4' - 69.7' - Calcite, fluorite stringer at 73.35' @ 27° to C/A. - 1% coarse pyrite between 73.9' - 77.6' - Fine disseminated and local coarse pyrite, common between 76.6' - 81.4' - Highly syenitized between 82.8' - 83.7' - Shear at 84.2' @ 45° to C/A. - Syenite/carbonate between 89.0' - 89.9'	18509		69.7	71.1	1.4			10	.6
			18510		73.85	77.6	3.75			77	2.2
			18511		77.7	81.6	3.9			66	3.2
			18512		82.7	83.7	1.0			41	1.2
			18513		89.0	90.0	1.0			47	3.8
91.75	102.2	Weakly carbonatized, coarse grained grey-pink syenite porphyry. White feldspar in a fine groundmass. Carbonate as thin stringers and associated with phenocrysts. Upper contact @ 60° to C/A. - Reddish with 1% pyrite between 82.0' - 82.7'; 1/8" pyrite vein at 82.6' @ 60° to C/A. - 1" quartz/carbonate vein at 94.75' @ 42° to C/A. - Carbonate/epidote stringers at 96.8' @ 35° to C/A.	18514		92.15	92.6	.45			119	5.0
			18515		94.45	95.0	.55			26	1.0
			18516		98.7	102.3	3.6			58	3.0
102.2	107.15	Weakly syenitized fine grained sediment with minor fine pyrite. - Carbonate/fluorite stringer at 103.2' @ 40° to C/A.	18517		105.0	107.1	2.1			115	1.8
107.15	109.1	Moderately to strongly syenitized fine grained sediment. Locally brecciated with highly chloritized rock between fragments. Shearing @ 108.5' @ 55° to C/A. - Upper contact @ 63° to C/A. - Lower contact @ 53° to C/A.	18518		107.1	109.1	2.0			70	2.0

DIAMOND DRILL RECORD

 NAME OF PROPERTY HANSON-WELSH OPTION

 HOLE NO. KL-HW-81-1

 SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		%	%	Au ppb	Ag ppm
					FROM	TO				
109.1	113.65	Medium grained pink-brown syenite porphyry. Locally weakly carbonatized. Highly fractured between 111.3' - 114.3'. Minor fine disseminated pyrite. Locally vuggy where carbonate has dissolved out. - Carbonate-quartz-sulphide vein at 109.85' @ 35° with brick-red alteration extending between 109.7' - 110.0'.	18519		109.8	110.25	0.45		106	2.2
			18520		111.0	113.7	2.7		122	0.8
113.65	114.1	Felsite. Locally with a few % sulphides.	18521		113.7	114.1	0.4		101	1.2
114.1	121.4	Fine grained, pale green, schistose rock. Shearing at 45° to C/A. Highly fractured between 120.0' - 120.3' - 3% chlorite. - Sulphide-carbonate-quartz band between 120.85' - 121.5'. Sharp contacts @ 60° to C/A. - Lower contact is gradational.	18522		114.1	115.0	0.9		34	1.4
			18523		121.0	121.2	0.2		393	7.2
121.4	155.6	«Mottled» syenitized sediment; consists of fine grained sediment with mottled reddish moderately to highly syenitized sections. - Generally uncarbonated although carbonate stringers are common - Unmottled, moderately carbonatized and with 1-2% disseminated pyrite between 138.05' - 139.0' - 1/8" pyrite vein at 141.6' @ 80° to C/A. - Pyrite common on fractures between 142.3' - 141.7'. - Narrow band of chloritized sediment at 149.5' @ 80° to C/A. - Highly fractured between 140.8' - 145.2' and 149.0' - 155.0'.	18524		121.3	123.2	1.9		128	1.2
			18525		123.2	127.8	4.6		84	0.8
			18526		127.8	131.5	3.7		103	0.2
			18527		131.5	133.4	1.9		67	0.8
			18528		133.9	138.2	4.3		56	1.0
			18529		138.2	139.1	0.9		57	0.8
			18530		139.1	141.2	2.1		71	1.0
			18531		141.2	141.6	0.4		311	0.6
			18532		142.0	143.7	1.7		229	1.8
			18533		143.7	147.0	3.3		60	0.8
			18534		147.0	147.9	0.9		111	1.0
18535		147.9	150.0	2.1		115	1.4			
18536		150.0	154.5	4.5		86	0.2			
18537		154.5	155.4	0.9		112	2.8			
155.6	197.9	Fine to medium grained brown syenite porphyry. Fairly highly fractured throughout; extremely fractured. Between 153.5' - 155.5', 155.6' - 156.0', 156.7' - 157.2', 174.7' - 177.3', 180.0' - 180.3', 183.0' - 184.4', 186.8' - 187.1' - Vuggy fractures with local brick-red alteration between 158.0' - 159.7' - 1/8" chlorite, quartz, carbonate vein at 159.0' @ 75° to C/A	18538		157.1	158.8	1.7		79	0.6
			18539		166.7	167.6	0.9		172	0.6
			18540		167.6	173.0	5.4		107	0.6
			18541		173.3	174.6	1.3		58	0.2
			18542		174.6	176.1	1.5		45	1.0
			18543		184.2	184.45	0.25		156	5.4

DIAMOND DRILL RECORD

NAME OF PROPERTY HANSON-WELSH OPTION

HOLE NO. KL-HW-81-1 - SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au ppb	Ag ppm
					FROM	TO	TOTAL				
155.6	197.9	Cont'd..... - 166.7 - 167.5, quartz, carbonate, epidote veins constituting 60% of the highly chloritized rock. - 173.3 - 175.0, 1-2% spotty pyrite in syenite - 174.85 - 175.9, 6-inch quartz, carbonate, pyrite vein with associated red alteration - 1/2" band is silicified with heavy sulphides at 182.6' - Highly chloritized at 186.7' - 1/8" sulphide-carbonate-quartz band at 188.65' @ 35-40° to C/A - Chloritized band between 191.3' - 191.55' with contacts @ 40° to C/A - Moderately fractured with 1% sulphide between 194' - 197.9' - Lower contact is gradational @ 45° to C/A.									
197.9	204.0	Pale olive green, fine grained massive rock? - Carbonate/sulphide stringers are common @ 15-30° to C/A - Minor disseminated pyrite - Moderately to locally highly fractured.	18544		197.6	201.5	3.9			260	0.6
			18545		201.5	203.4	1.9			132	2.0
			18546		203.8	205.0	1.2			1249	1.2
204.0	215.7	Moderately to highly carbonatized, moderately sheared, dark-grey rock. Coarse grained texture. Irregular veins of carbonate along shearing and as patches constitutes 5-10% of the rock. - Shearing @ ~62° to C/A - 2-3% pyrite, locally up to 10% - Highly carbonatized, silicified and pyritized between 208-208.6' - Highly fractured between 204 - 205', 207.1 - 209.8', 211.4 - 211.7'.	18547		205.0	207.0	2.0			258	2.4
			18548		207.0	208.1	1.1			250	2.6
			18549		208.1	208.7	0.6			701	8.4
			18550		208.7	209.9	1.2			468	1.8
			18551		209.9	212.0	2.1			499	2.0
			18552		212.0	214.0	2.0			213	2.0
			18553		214.0	216.0	2.0			95	0.6
215.7	225.6	Massive, fine grained, greenish, locally finely laminated sediment. Bedding @ 80° to C/A. - Slightly syenitized - Minor sulphides - 1/4" carbonate, brown material vein at 222.3' @ 60° to C/A.	18554		216.0	218.0	2.0			62	1.2
			18555		218.0	220.7	2.7			92	0.2
			18556		220.7	225.8	5.1			112	0.6

DIAMOND DRILL RECORD

NAME OF PROPERTY HANSON-WELSH OPTION

HOLE NO. KL-HW-81-1 - SHEET NO. 6

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au ppb	Ag ppm
					FROM	TO	TOTAL				
286.0	292.2	As between 282.5' - 284.5'	18579		286.5	287.5	1.0	Mo	Cu	188	0.6
		- Shearing @ 48° to C/A	18580		287.3	290.1	2.8			73	0.6
		- 2% pyrite between 290.3' - 292.15', 286.0' - 287.0'	18581		290.1	292.0	1.9			84	1.8
292.2	297.8	Dark grey syenite porphyry similar to 232.75' - 252.2'. Disseminated sulphides as well as pyrite on fractures. 5% coarse pyrite between 294.9' - 295.2'.	18582		292.0	294.75	2.75			149	0.4
			18583		294.75	295.3	0.55			104	0.4
297.8	300.5	Olive green, sheared, chloritized rock as above. Development of large chlorite flakes as in schist of Midrim hole.	18584		299.9	300.65	0.75			47	0.6
300.5	301.75	Very fine grained, dark, massive, lightly sheared argillite. - Shearing @ 40° to C/A.									
301.75	309.7	Fine grained syenite or highly syenitized sediments. 1% or less disseminated pyrite.	18585		302.4	303.6	1.2			388	0.4
		- 1/4" quartz/carbonate/sulphide vein at 302.6' @ 20° to C/A	18586		303.6	305.3	1.7			351	4.2
		- Much carbonate/quartz/sulphide/chlorite veining between 303.6' - 305.4'	18587		305.3	306.3	1.0			252	0.2
		- Calcite vein between 304.7' - 305.35' with blebs of chalcoppyrite.	18588		306.4	307.6	1.2			88	0.2
		- 3/4" carbonate vein at 305.7' @ 50° to C/A	18589		307.6	309.7	2.1			148	0.6
		- 3/8" vein at 306.2' @ 40° to C/A									
309.7	332.5	Quartz/carb vein, 306.3 - 306.25'									
		Quartz/carb vein, 307.25 - 307.45'									
		Quartz/Carb vein, 307.8 - 307.9'									
		Quartz/chlorite/sulphide/carbonate stringers common between 309.3 - 309.7'.									
		Very fine grained, grey, generally massive argillite. Moderately fractured with sulphides and quartz-carbonate stringers in fractures. Minor chalcoppyrite. - Moderately sheared @ 60° to C/A and moderately to highly chloritized between 311' - 312.8'. Moderately carbonatized. «Chlorite Schist».	18590		311.0	311.5	0.5			1415	15.6
- Highly silicified between 311.0 - 311.45'	18591		311.5	313.3	1.8			34	0.4		
- Brecciated between 329.2' - 329.75', chalcoppyrite at 329.7'.	18598		313.3	318.4	5.1			199	4.4		
			18599		329.1	330.0	0.9	0.03		1331	0.4

DIAMOND DRILL RECORD

NAME OF PROPERTY HANSON-WELSH OPTION

HOLE NO. KL-HW-81-1 SHEET NO. 7

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE			%	%	Au ppb	Ag ppm
					FROM	TO	TOTAL				
332.5	349.5	Predominantly pebble conglomerate with minor interbeds of greywacke. - Sulphides disseminated throughout as well as on fractures - 40% sulphides between 333.8' - 333.9' @ 60° to C/A - Heavy sulphides with quartz-carbonate at 337.6' @ 35° to C/A - Highly silicified with 30% coarse pyrite at 340.9 - 341.5' @ 70° to C/A - Quartz/carbonate/fluorite vein at 349.0'	18600		333.6	334.1	0.5			1789	4.0
			18601		337.2	338.0	0.8			463	0.4
			18602		340.8	341.4	0.6			363	0.4
			18603		341.6	342.4	0.8			448	0.2
			18604		345.0	348.7	3.7			332	0.8
			18605		348.9	349.6	0.7	0.011	0.027	306	3.2
			18606		350.9	354.0	3.1			644	1.2
349.5	369.4	Interbedded fine grained argillite and greywacke. Sulphides disseminated through rock, as stringers, associated with veins. - Slightly chloritized between 351 - 354' - 5% sulphide between 354.6 - 355.2' - 1" silicified zone with 50% plus medium grained pyrite at 62.2 @ 30° to C/A - Brecciated between 363.7 - 363.9 - 5% sulphide and carbonatized between 364.5 - 365.0' - Carbonate vein with finely disseminated sulphide at 365.4 @ 25° to C/A - 2 - 1/4" quartz/sulphide/carbonate veins at 367.4 and 367.7 @ 40-45° to C/A	18607		354.6	355.3	0.7			544	0.8
			18608		357.8	360.2	2.4			149	1.0
			18609		360.2	361.4	1.2			332	0.8
			18610		361.4	362.8	1.4			241	1.2
			18611		364.5	365.1	0.6			217	0.6
			18612		367.4	367.9	0.5			181	0.6
			18613		376.6	381.6	5.0			82	1.4
369.4	490.6	Pale grey-green, lightly chloritized argillite with minor interbeds of greywacke and conglomerate. - Weak cleavage @ 70° to C/A - 1/4" quartz/carbonate/sulphide vein at 369.2 @ 30° to C/A - Slightly silicified with minor disseminated pyrite between 376.6 - 381.0' - 5-10% coarse pyrite between 380.7 - 381.7' - Light shearing at 383.4' @ 55° to C/A - Minor chalcopryrite at 384.7' in calcite - Lightly syenitized between 384.7 - 386.7' - 1/4" quartz/carbonate/sulphide vein at 388.4' @ 30° to C/A - High chlorite content associated with carbonate between 389.5 - 390.5' - Quartz/carbonate/sulphide band at 420.4' @ 27° to C/A - 1/4" sulphide/quartz vein at 427.7 @ 25° to C/A - Quartz/carbonate/fluorite stringer at 435.6' - Slight shearing, moderately chloritized between 168 - 172' - Lower contact is intrusive.	18614		387.9	388.7	0.8			47	0.6
			18615		402.5	406.1	3.6			45	0.2
			18616		420.2	420.8	0.6			52	0.4
			18617		420.8	421.9	1.1			34	1.0
			18618		427.4	428.6	0.6			32	0.6
			18619		457.5	460.5	3.0			95	1.4
			18620		467.3	470.6	3.3			30	1.4

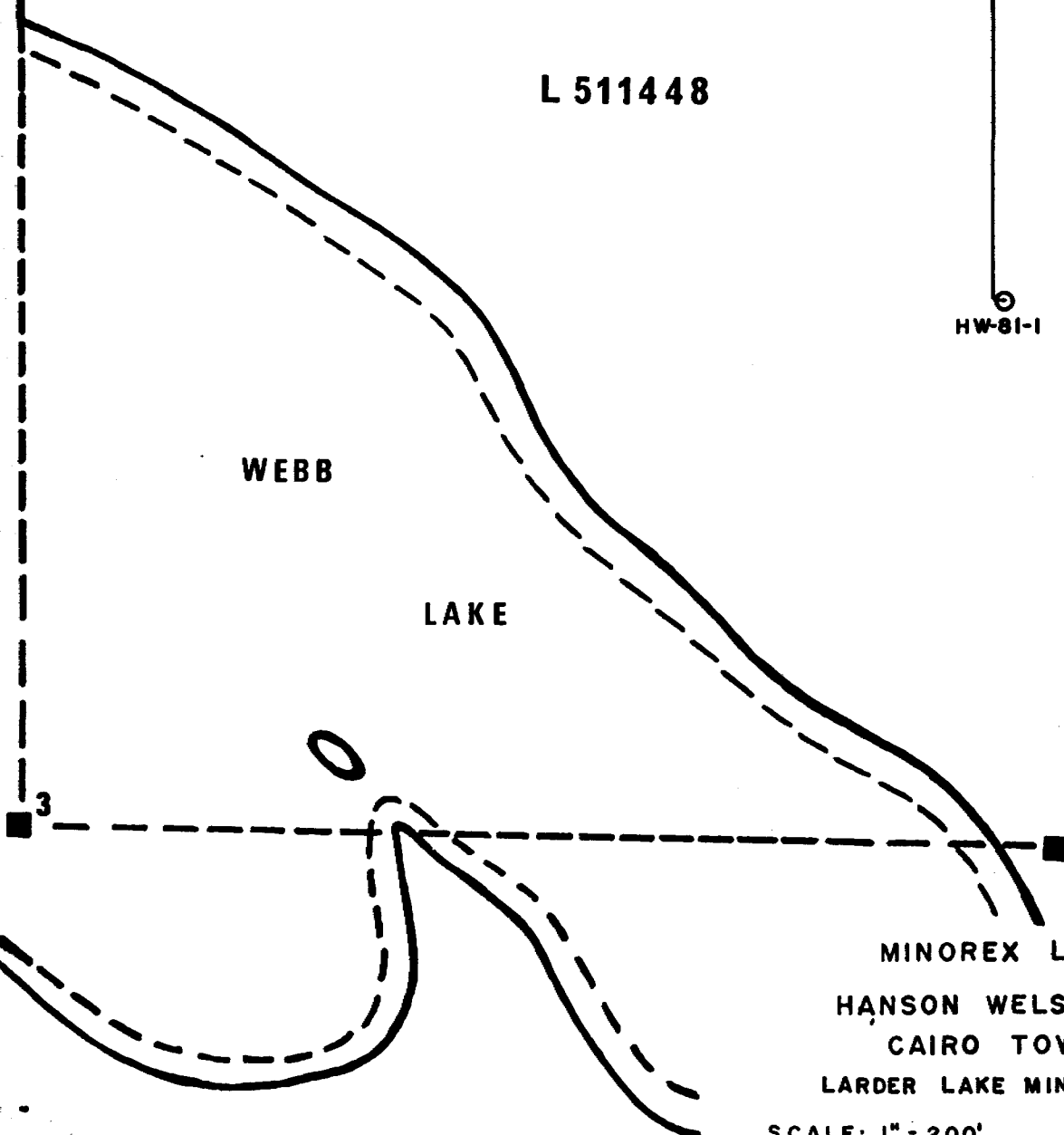
L 511446



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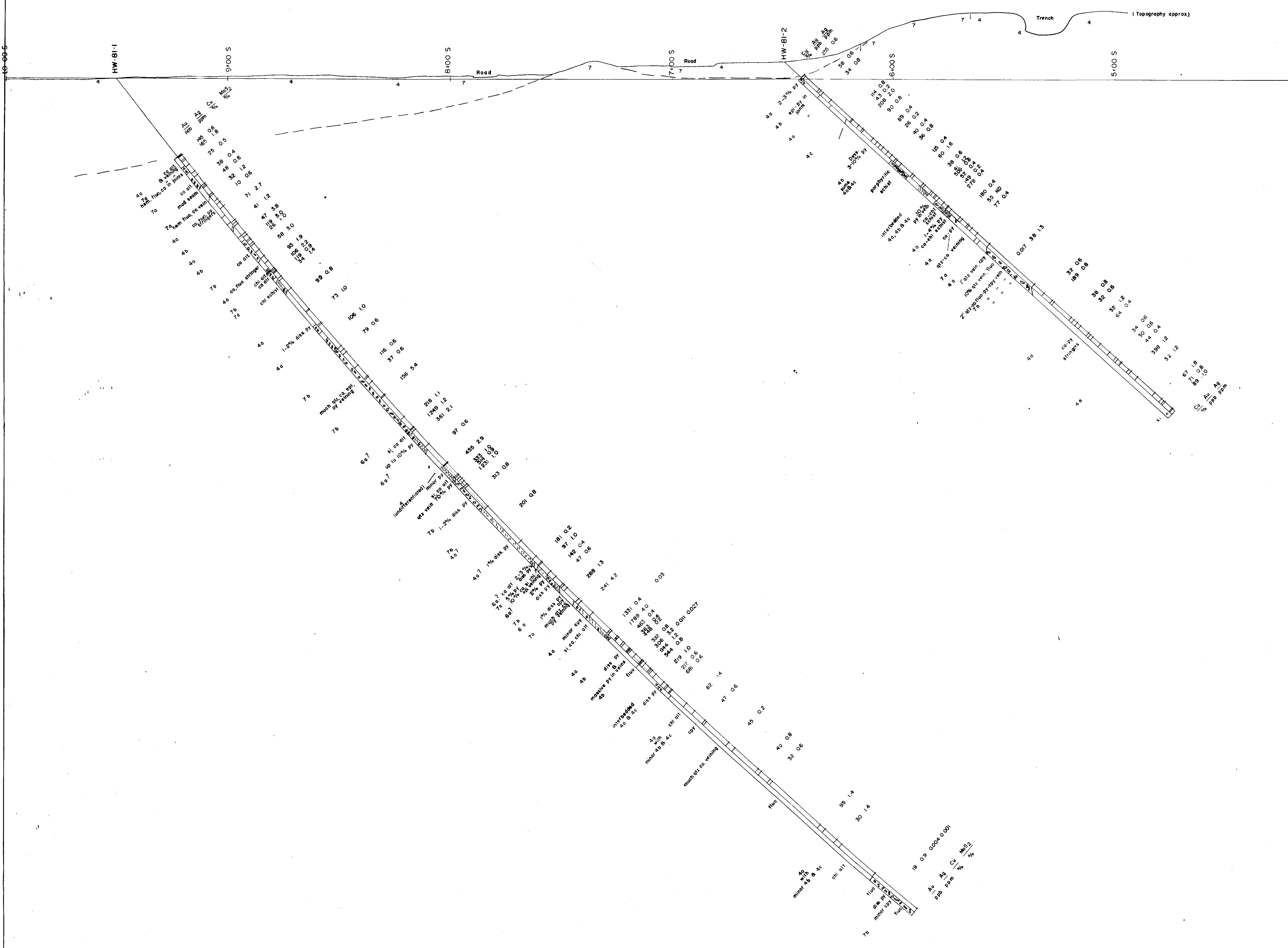
LAKE



MINOREX LIMITED
HANSON WELSH OPTION
CAIRO TOWNSHIP
LARDER LAKE MINING DIVISION

SCALE: 1" = 200'

DATE: APRIL 1981



Drill hole data

Hole No	Depth	Dip	Azimuth	Grid coordinate
HW 81 1	515'	22° 30'	0°	L 1 00 W / 9 75 S
HW 81 2	234'	-41.5°	0°	L 1 00 W / 6 50 S

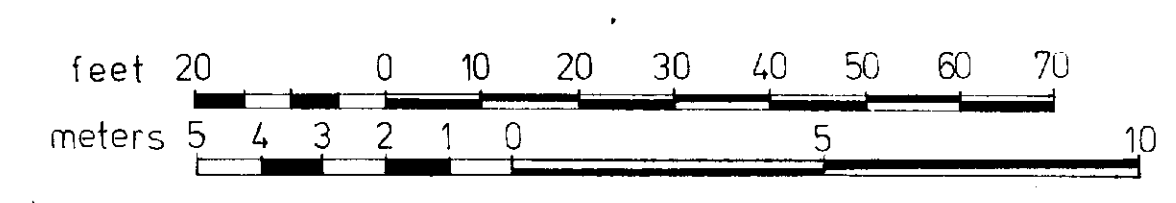
- ULTRAMAFIC INTRUSIVE ROCKS**
- 8
- FELSIC INTRUSIVE ROCKS**
- 7a Syenite (altered)
7b Porphyritic syenite
7c Felsic dyke
- MAFIC INTRUSIVE ROCKS**
- 6a Mafic dyke
- CHEMICAL METASEDIMENTS**
- 5

LEGEND

- CLASTIC METASEDIMENTS**
- 4a Argillite
4b Conglomerate
4c Greywacke
- FELSIC METAVOLCANICS**
- 3
- INTERMEDIATE METAVOLCANICS**
- 2
- MAFIC METAVOLCANICS**
- 1

- SYMBOLS**
- chalcopyrite (cp)
 - pyrite (py)
 - hematite (hem)
 - quartz (qtz)
 - silica (sil)
 - epidote (epi)
 - carbonate (co)
 - chlorite (chl)
 - fluorite (flu)
 - quartz alteration (qtz alt)
 - disseminated (diss.)

- Shear zone
- Highly fractured breccia zone
- Foliation
- Bedding
- Drill hole
- Mineralization: Poor, Fair, Good
- Lithology



MINOREX LIMITED

DIAMOND DRILL X-SECTION
PROPERTY Hanson-Welsh option
Cairo twp

SECTION L 100 W Looking E

DATE November, 1981

DRAWN BY D. Bray

DRAWING No. A-2317-Ont-55e