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**DIAMOND DRILL REPORT**  
**on the**  
**DOUBLE 'A' PROPERTY**  
**Gold Hill Resources Inc.**  
**Abbotsford and Adair Township, Ontario**  
**DISTRICT OF COCHRANE**

**Prepared By: M. Jensen, B.Sc.**  
**Geologist**  
**Jensen Mineral Services Limited**  
**December 10, 1984**

## SUMMARY OF DIAMOND DRILL HOLE AND FIELD WORK RESULTS

The Gold Hill Resources Double 'A' property, located in Abbotsford and Adair townships, Ontario, contains several geophysical anomalies which occur on strike with outcropping areas of gossan rich volcanics. Several of these anomalies have been drilled in the past (Canadian Javelin Ltd. 1965) however only the initial two holes drilled were assayed (See Summary of Field Work, Jensen, 1984). Both of these holes intersected the same anomaly and all other holes were not assayed.

Two target anomalies were chosen on the strength of proximal rusty volcanics and low but anomalous gold values in soil samples. Three diamond drill holes were completed during a period from October to November 1984 as well as further soil sampling and geophysics.

This report summarizes the results of this most recent work. All field results have been included as an appendix. Several photographs of both the core as well as the drill locations are also included.

Mapping by the author earlier in the summer of 1984 located two pyrrhotiferous amphibolite horizons which correspond with two strong conductors outlined by previous field programs (Canadian Javelin, 1965). In some areas these horizons exhibit gossans.

Reconnaissance soil sampling along these horizons returned low but anomalous gold values.

Each of these amphibolite horizons was investigated by diamond drilling. The purpose for drilling these targets was to determine if there is any gold mineralization associated with the sulphide rich horizons and if so how it is distributed within the horizon.

Deposits containing anomalous gold concentrations within sulphide rich volcanic and volcanically derived sediments are well known and often contain very high tonnages. Within the same general region are two recently discovered excellent examples, the Detour Lake deposit and the smaller Golden Knight deposit. At Detour Lake, 25 million tons of 0.124 oz/ton Au is currently under production.

### DIAMOND DRILLING

Three holes were drilled to intersect the pyrrhotiferous horizons on the Double 'A' property. A total of 935.0 feet of BQ core were drilled during the October to November 1984 DDH program.

#### DDH\_\_84-001:

Diamond drill hole 84-001 was collared on line 2 east, 215a south of the baseline (2+00E, 2+15S). It was drilled to a depth of 296.0 feet at an azimuth of 210°. A total of 26.0 feet of overburden was cased. The hole intersected a sequence of intercalated rhyolitic to dacitic tuffs with interbanded narrower units of medium to coarse grained garnet amphibolites, which generally contained disseminated pyrite. Garnet amphibolite

was intersected at four intervals, 81.5 - 100.5', 120.0 - 130.0', 157.6 - 170.0' and 266.0 - 277.0'.

Most of the pyritic horizons are present within the garnet amphibolite zones, averaging about 2-5% of the unit. The sulphides are predominately pyrite as disseminated blebs and stringers with minor blebs of chalcopyrite and pyrrhotite. The garnet amphibolite unit intersected at 81.5 to 100.5 feet is by far the most sulphide rich of the zones encountered. Pyrite with minor chalcopyrite up to 50% is visible as stringers within a narrow silicified zone. Minor epidotization is visible within the area of faint brecciation. Three samples totalling four feet were taken within this unit. Narrow quartz veining is visible throughout with some areas exhibiting clusters of veinlets. At 266.0 to 268.0 feet and 276.0 to 289.0 feet, areas of extensive quartz veining are present. Subhedral to euhedral crystals of pale yellow carbonate are visible within the quartz veins. No sulphides are present within the quartz veins. All sulphide rich areas were sampled, with a total of 19 samples taken (Sample # 12542 - 12561).

DDH 84-002:

Diamond drill hole 84-002 was collared on line 0+80 east at 50m north of the baseline (0+80E, 0+50N). It was drilled to a depth of 338.0 feet at an azimuth of 210°. A total of 16.0 feet of overburden was cased.

The hole intersected a sequence of intercalated rhyolitic to dacitic tuffs, with interbanded units of rhyolitic to dacitic crystal tuff. The intercalated tuffs were generally very fine

grained and showed only very limited amounts of crystal fragments. The crystal tuffs very finely laminated and often contained large crystal fragments to 30% of the unit. Very fine disseminated pyrite, to a maximum of 4% was present in several areas, however no sulphide rich areas were encountered. Quartz veining was present throughout the hole, however all veinlets were barren of any mineralization. A highly altered breccia zone was intersected at 115.0 to 139.5 feet. This zone of rhyolite tuff shows shattering which has been silica healed. The entire zone shows strong silicic, potassic and epidote enrichment, particularly adjacent to the fractures and veinlets. The entire zone is very hard and exhibits a strong rose and pale green colouration. No sulphides are visible. Two samples, totalling nine feet, were taken of this unit. A total of eight samples were taken of hole 84-002 (Sample # 12562 - 12569).

DDH\_\_84-003:

Diamond drill hole 84-003 was collared on line 0+00, 170m south of the baseline (0+00, 1+70S). It was drilled to a depth of 301.0 feet at an azimuth of 210°. A total of 15.0 feet of overburden was cased.

The hole intersected a sequence of rhyolitic to dacitic tuffs and lapilli tuffs, which at depth gave way to a series of amphibolites. The tuffs are very fine grained, siliceous and show limited garnet development. The lapilli fragments are rhyolitic, up to 3" in diameter and are generally stretched along the foliation in an approximate 3:1 ratio. Finely disseminated sulphides are present up to 4%. At depth the tuffs are amphibolitized as the composition becomes more mafic. Here the

lapilli tuffs are finer grained and very dark green with a much higher content of disseminated and stringer sulphides. Large garnet porphyroblasts give the unit a characteristic blotchy appearance. This unit contains from 15-40% sulphides, mainly pyrite with minor amounts of chalcopyrite and pyrrhotite. The sulphides are present as disseminated blebs within the fine grained matrix, interstitial to the large elongated lapilli fragments.

Several quartz veins are present within the amphibolites. A large coarse grained quartz vein, 2.5 feet in core length, was intersected between the lapilli tuffs and the underlying amphibolites. The vein contained large euhedral pyrite to 20% and several sections showed some chloritization. Narrow quartz veinlets and stringers were present throughout the amphibolites however the frequency decreased with depth. A total of 24 samples were taken of this hole (Sample # 12570 - 12593).

#### DIAMOND DRILL HOLE SAMPLING

A total of 52 core samples were collected for assay. In addition to these samples, where water return was adequate, 35 sludge samples were taken in the event that any fine grained gold mineralization would be lost during the drilling process.

Assay results of this sampling have been included in the appendix. No highly anomalous gold values were encountered in either the core or the sludge samples. Background values for the core samples collected averaged 5 ppb. Of the 52 samples collected only 7 samples exceeded background, with 55 ppb being the maximum value encountered. Silver and copper values are also

low with very few values above the background values. The sample which returned a gold value of 55 ppb was taken from a sulphide poor lappilli tuff which contained only background values of silver and gold. The sludge samples also returned only low to background values of silver and gold but copper values were generally an order of magnitude greater than those encountered in the core samples. This is due to the concentrating of this metal within the drill water. No significant gold values were encountered during drilling.

### GEOPHYSICAL SURVEY

An EM-16 survey was carried out on lines 1+00W, 0+00, 1+00E, 2+00E and 3+00E from 3+00N to 6+00S. This limited survey was completed in order to locate the previously defined conductors (Canadian Javelin Limited, 1965). As these conductors were drill targets it was critical to have the conductors accurately located in the field.

Two conductors and an area of conductive overburden were delineated by the survey. A strong conductor occurs on all lines at approximately 2+00S. The conductor is very strong, narrow and appears to be steeply dipping to near vertical. From the profiles ( see appendix ) the conductor appears to be at a depth of between 15-25 metres. The drilling confirmed this estimate. The second conductor is a medium to strong conductor which also appears to be narrow and steeply dipping. It is located at approximately 0+50 N. The conductor strength varies greatly due to overburden thickness. Two lines cross exposed outcrop while three of the lines cross areas of deep overburden.

A wide area of conductive overburden was encountered on all lines at approximately 3+00 N.

#### SOIL SAMPLING

Detailed soil sampling to cover areas which had previously returned anomalous values was also undertaken. A total of 41 samples were collected and each was analyzed for both silver and gold. Once again the background value for gold was found to be 5 ppb. Of the 41 sampled taken only 9 returned values above background and of these only 4 are slightly anomalous. The highest value returned was 35 ppb which is equivalent to 0.035 grams per tonne. Silver values returned only very low values. Previously collected anomalous samples could not be duplicated and therefore must be due to a random source.



CERTIFICATE OF THE AUTHOR

I hereby state that;

1. I possess a Bachelor of Science degree in Geology from the University of Toronto where I graduated in 1979, and have practiced my profession since that time.
2. I reside and have my offices at 2 Silver Maple Court, Brampton, Ontario L6T 4R1.
3. This report is based upon several published and unpublished sources of information and data collected during the recent field program.
4. I have no direct or indirect interest in the property nor do I expect to receive any in the future.
5. To the best of my knowledge all of the information contained within this report is factual and true.

Dated at Toronto, Ontario this 10th day of December, 1984.



Maureen Jensen, B.Sc.

**APPENDIX**

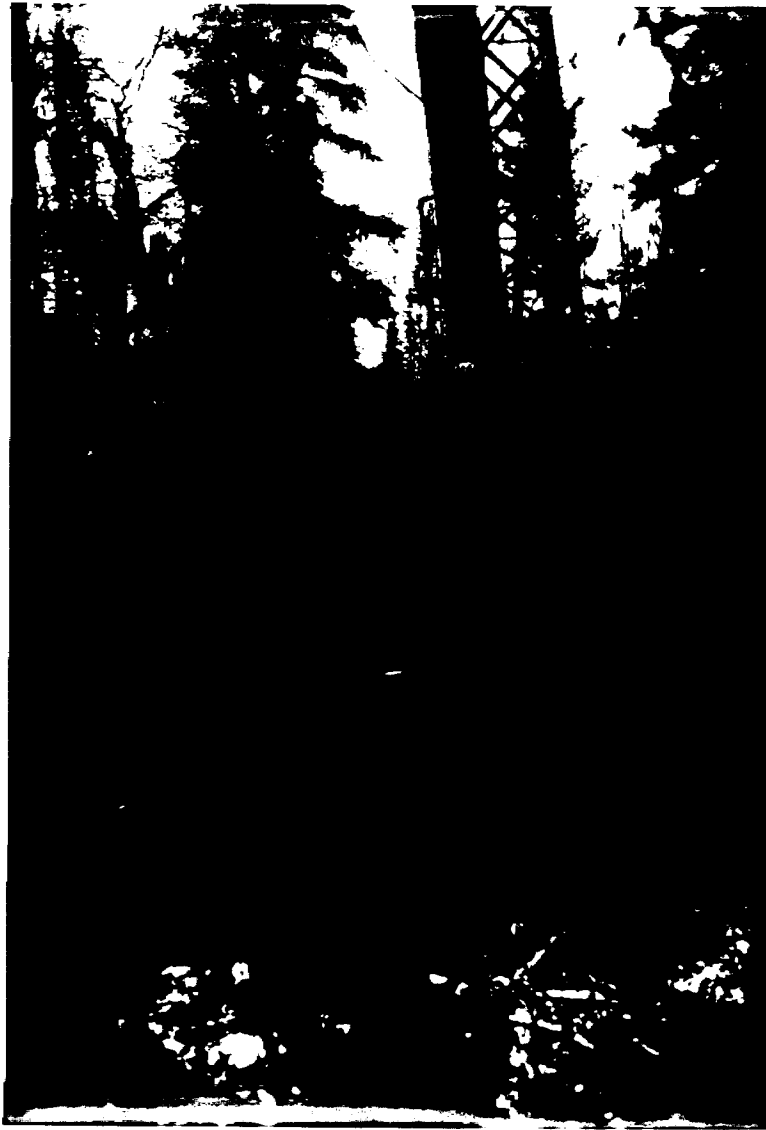


PHOTO 3: Unitized Drill Rig

# DIAMOND DRILL RECORD

NAME OF PROPERTY GOLD HILL RESOURCES - DOUBLE 'A' PROPERTY  
 HOLE NO. 84-001 LENGTH 296.0'  
 LOCATION L2400E @ 2+15S  
 LATITUDE \_\_\_\_\_ DEPARTURE \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ AZIMUTH 210° DIP -47°  
 STARTED October 26/84 FINISHED October 29/84

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	47°	210°			
296	54°	210°			

HOLE NO. 84-001 SHEET NO. \_\_\_\_\_

REMARKS \_\_\_\_\_

LOGGED BY M. JENSEN

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE			ppb	ppm	ppm
					FROM	TO	TOTAL	Au	Ag	Cu
0	26.0'	Casing - Overburden								
26.0'	41.75'	<u>Rhyolite Tuff</u>  fine grained to aphanitic, colour banded at 45 - 50° to core length. Pale green to dark green with hornblende needles to 0.3 inches long. Needles are only vaguely aligned to foliation. Lower end of unit becomes more dacitic with rhyolitic interbands to 1.0' wide Narrow silicified sections are found coincident with foliation  31.0' - 0.5' wide barren quartz vein 41.0' - a 0.25' wide qtz vein showing potassic alterations at 15° to C.L.								
41.75'	81.5'	<u>Interbanded Dacite to Andesite Tuff</u>  Fine grained dark green to grey dacitic unit becoming more mafic at depth. Narrow andesitic interbands becoming wider near the end of the unit. Unit banded to 0.5" up to 20%. Several narrow (to 1.0') areas of silicic enrichment along foliation at 49.0', 54 - 55', 58', 67.5' and 70 - 73.5' Siliceous rhyolitic interbands with minor hornblende development at 56.5' - 58.0' and 75.5 - 77.0'								

# DIAMOND DRILL RECORD

NAME OF PROPERTY...

HOLE NO. 84-001

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ppb	ppm	ASSAYS		
FROM	TO		SULPH BLEBS	FOOTAGE		Au	Ag	Cu		
				FROM	TO	TOTAL				
		58 - 81.5' minor pale pink garnets to 3% with a healed breccia zone containing stringers of py, po and cpy at 77.4' to 78.0'	12542	10%	77.4	78.5	1.1'	5	0.4	36
		78.0' - 81.5' blebs of py, cpy to 2%	12543	2%	78.5	81.5	3.0'	<5	0.4	57
81.5	100.50'	<u>GARNET AMPHIBOLITE</u>  Medium grained garnet amphibolite. Garnets are poikoblastic, pale to rose pink and increase in size with depth, from 0.1" to 0.25" and from 10% to 15%. Unit is most probably an andesitic to basaltic tuff. Small garnets and large porphyroblasts are aligned along foliation. Some sections of the unit are very amphibole rich - up to 70% of unit. Well foliated at 60° to C.L. Pyrite in blebs along foliation to 2%. A few narrow siliceous bands of crystal tuff are present								
		89.5 - 89.7 a healed breccia zone with pyrite 40% chalcopyrite 5%, pyrrhotite 3% fine diss pyrite for 1.0' below	12544	50%	89.5	89.7	0.2'	5	0.2	640
		96 - 99.3 disseminated sulphides	12547	4%	96	99.3	3.3'	5	0.3	29
		99.3 - 99.4 Pyrite, pyrrhotite and minor chalcopyrite veinlit at 60° to C.L.	12545	40%	99.3	99.8	0.5'	<5	0.3	31

# DIAMOND DRILL RECORD

NAME OF PROPERTY

HOLE NO

84-001

SHEET NO.

3

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		ID	SPLIN THES	FOOTAGE		ppb	ppm	ppm	
					FROM	TO	TOTAL	Au	Ag	Cu
100.5	120	<p><u>DACITE TUFF</u></p> <p>pale to dark grey, fine grained, well foliated, siliceous tuff. Composition ranges from rhyolitic to dacitic. Well foliated at 60° to C.L. with narrow crystal tuff interbands along foliation. Within the mafic interbands small irregular garnet porphyroblasts. Fine diss pyrite to 2% is visible in some sections.</p> <p>105.0' to 120.0' zone of epidotization - veinlets of epidote crosscut unit at 30° to C.L. however from 114.0' to 120.0' fine hairline epidotized cracks to foliation.</p>								
120.0	130.0	<p><u>GARNET AMPHIBOLITE</u></p> <p>medium grained, dark olive green with large (up to 1.0") pink garnet porphyroblasts in a matrix of felted amphibole.</p> <p>Blebs and stringers of pyrite, pyrrhotite and chalcopyrite throughout.</p> <p>127.6 - 128.0' a pyrrhotite healed breccia zone</p>	12548	3%	120.0	122.5	2.5'	< 5	0.3	22
			12549	3%	122.5	127	4.5	< 5	0.4	20
			12550	2%	127	130	3.0'	5	0.2	36
130.0	157.6	<p><u>DACITE TUFF</u></p> <p>fine grained, dark grey, well banded tuff, quite silicious in areas</p> <p>126 - 140 unit shows fine hairline epidotized cracks</p>								

ANVA DATES - "CRON" - 366 1166

# DIAMOND DRILL RECORD

NAME OF PROPERTY ...

HOLE NO. 84-001

SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			Au Ag ASAYS				
FROM	TO		NO.	GHEPH IDEG.	FOOTAGE		ppb	ppm	ppm	
					FROM	TO				TOTAL
		144.6 - 157.6 dacitic crystal tuff interbanded with very fine grained tuffs and amphibolitized flows. Flows show crenulations within the faint banding. Garnet porphyroblasts to 0.25" and hornblende porphyroblasts to 0.5" @ 146' fine quartz veining along foliation	12551	3%	142	145	3.0'	5	<0.2	42
			12552	2%	145	150	5.0'	<5	0.3	28
			12553	3%	150	155	5.0'	<5	<0.2	29
			12554	3%	155	157.6	2.6'	5	<0.2	51
157.6	170.0	<u>GARNET AMPHIBOLITE</u>  Coarse to medium grained garnet amphibolite. Matrix of felted amphibole crystals to 0.2" with hazy garnet porphyroblasts to 0.2".								
		157.6 - 170.0 Coarse grained with 20% garnets up to 0.5". Matrix of felted amphibole Blebs and stringers of pyrite @ 60° to C.L.	12555	5%	157.6	162	4.4'	10	<0.2	12
			12556	5%	162	167	5.0	5	0.3	35
			12557	5%	167	170	3.0	<5	<0.2	36
170.0'	266.0	<u>(DACITE TO ) ANDESITE TUFF</u>  medium to fine grained dark grey to green amphibolitized tuff. Finely banded at 55° to C.L. Narrow units up to 2 inches wide of more mafic tuffs which are strongly amphibolitized. The entire unit contained small pale pink garnets which are generally found as vague pinkish splotches Narrow silicified zones along foliation Quartz porphyroblasts up to 1" are elongated along the foliation Up to 25% randomly oriented amphibole crystals throughout								
		251.5' - 253 Area is shattered and healed with quartz Only faint shatter lines visible.								

-ANGRUBEE - BRUNO - 566-1162

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_

HOLE NO 84 - 001

SHEET NO 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO	SHPH DEF	FOOTAGE					
					FROM	TO				TOTAL
266	277.0'	<p><u>COARSE GRAINED GARNET AMPHIBOLITE</u></p> <p>Dark olive green, coarse grained, felted amphibole with large hazy garnet porphyroblasts, minor sulphides</p> <p>266.0 - 268.0' Area of coarse grained quartz veins up to 4" wide at 80° to C.L. Quartz veins contain some pale yellow carbonate crystals</p> <p>273 - 275 Dacite tuff interband</p>	12558	1%	266	268	2.0'	5	0.4	28
277	296	<p><u>ANDESITE TUFF</u></p> <p>fine grained pale grey to green with randomly oriented amphibole crystals in a matrix of sugary quartz and feldspar. Narrow interbands of coarse grained amphibolite at 60° to C.L. Hazy garnet porphyroblasts elongated along foliation.</p> <p>276 - 289 Zone of quartz - epidote- carbonate alteration along foliation. Thin stringers and blebs of quartz - pale yellow carbonate and narrow epidote veinlets @ 60 - 70° to C.L.</p> <p>END OF HOLE</p> <p>296.0'</p>	12559	2%	276	281	5.0'	5	0.4	56
			12560	2%	281	286	5.0'	5	0.3	41
			12561	2%	286	289	3.0'	15	0.4	40

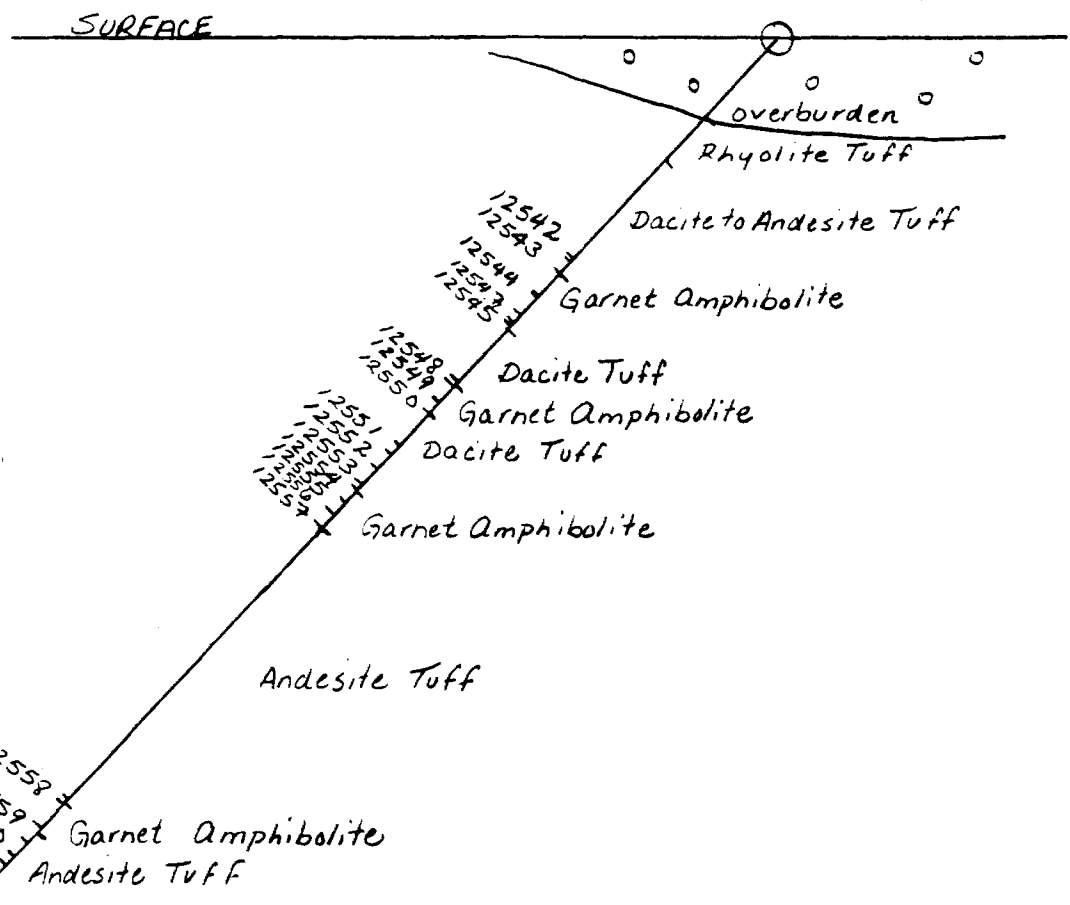


S

N

L 2+00E

84-001 (-47°)  
collared at 2+15mS



END OF HOLE  
296.0'

SCALE: 1 inch = 50 feet

TOTAL 19 CORE SAMPLES

CROSS SECTION DDH 84-001

DOUBLE 'A' PROPERTY  
GOLD HILL RESOURCES INC.

# DIAMOND DRILL RECORD

NAME OF PROPERTY GOLD HILL RESOURCES - DOUBLE 'A' PROPERTY  
 HOLE NO. 84-002 LENGTH 338.0'  
 LOCATION L0+80E @ 0+50N  
 LATITUDE \_\_\_\_\_ DEPARTURE \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ AZIMUTH 210° DIP -46°  
 STARTED October 29/84 FINISHED November 1/84

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-46°	210°			
330	-51°	210°			

HOLE NO. 84-002 SHEET NO. 1

REMARKS \_\_\_\_\_

LOGGED BY M. JENSEN

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au	Ag	Cu	
					FROM	TO	TOTAL	ppb	ppm	ppm
0	16.0'	CASING								
16.0	19.5	<u>DACITE CRYSTAL TUFF</u>  pale grey, medium grained, foliated at 50° to C.L. Feldspar and quartz crystals to 0.25" within a fine grained matrix. Hornblende crystals are randomly oriented throughout to 10%. Minor euhedral pyrite to 2% is present.								
19.5	115.0	<u>INTERCALATED RHYOLITE AND DACITE TUFF</u>  fine grained, foliated at 55° to C.L., pale to medium grey. Some areas show crystal fragments of quartz and feldspar within matrix. Crudely oriented hornblende crystals to 20% along foliation. Sub to euhedral crystals of pyrite and blebs of chalcopyrite along foliation to 3%. Silicic and potassic enrichment throughout.  22 - 24' a zone of silicic and potassic enrichment along narrow shatter zones Epidote is visible in hazy zones  28.5 a barren 0.5" quartz vein  29.0', 29.9', 31.0', 32.5' - 1" barren veins at 60° to C.L.  45.5 - 46.3 rhyolite crystal tuffs, crystals up to 50% of unit, disseminated pyrite to 5%	12562	3%	19.0	22.0	3.0'	5	0.4	53
			12563	-	22	24.0	2.0'	5	0.4	40

SANDRIDGE - TORONTO - 366-1164

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_

HOLE NO. 84-002 SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS				
FROM	TO		NO.	SULPHIDES	FOOTAGE		Au	Ag	Cu	
					FROM	TO	TOTAL	ppb	ppm	ppm
		48.6 - 54.0 silicic and potassic enrichment disseminated								
		51.8' a narrow soft epidote vein								
		54.0 - 94.0 interclated crystal tuff and tuff becoming becoming increasingly silicic with depth								
		@ 89.2' a one inch barren epidote veinlet								
		94 - 98 barren crosscutting quartz veins @ 60 - 80° to C.L? Epidotization adjacent to the veinlets								
		109.6 a one inch barren quartz vein @ 45° to C.L.								
115.0	139.5	<u>ALTERATION ZONE</u>  Zone of rhyolite tuff which has been shattered and silica healed. Entire zone is altered and shows strong silicic, potassic and epidote enrichment.								
		115 - 123.5' zone of intense silicic, potassic and epidote enrichment. Hard, pale green to rose, aphanitic Quartz filled fractures often vuggy. Epidote is strong adjacent to veinlets.	12564	-	116	120	4.0'	5	0.2	37
			12565	-	120	125	<5.0'	5	0.3	32
		123.5 - 139.5 less fractured but silicified								
139.5	160.25	<u>RHYOLITE CRYSTAL TUFF</u>  fine grained, pale to dark grey, very silicious. Quartz and potassium feldspar fragments visible to <0.1" and 20%. Minor sulphides.								

SEE PAGE 1 FOR CONTINUATION

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_

HOLE NO. 84 - 002

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			Au	Ag	ASSAYS		
FROM	TO		NO	SULPHIDES	FOOTAGE		ppb	ppm	ppm	
					FROM	TO	TOTAL			
160.25	204.5	<u>RHYOLITE TUFF</u>  pale grey, very fine grained to aphanitic rhyolite tuff. Finely banded at 45° to C.L. Narrow interbanded crystal tuff units up to 2"  166.5 - 170.0 an epidotized and silicified zone with some potassic enrichment at 45° to C.L. 170.5 barren one inch quartz vein at 80° to C.L. 180 - 181 finely bedded and severely contorted 189.5 - 189.7 narrow bleached epidotized zone 204 - 204.5 finely banded tuff with narrow crystal tuff interbands								
204.5	234.5	<u>RHYOLITE CRYSTAL TUFF</u>  medium to fine grained pale to grey to green, finely laminated tuff with 10- 30% crystal fragments up to 0.25". Most crystals are broken. Foliation at 50° to C.L. Fine disseminated pyrite to 3% as blebs. Quartz veinlets with epidote, potassic alteration throughout.  207.5 - 208 narrow quartz veinlet with pale rose potassic enrichment adjacent to the veinlets at 20° to C.L. 212.3 - 214 Quartz veinlets @ 20° to C.L. minor epidotization. 214-224 as above with small hairline fractures 226.5, 228-228.5 silicified zones, potassic alteration								
			12566	3%	207	212	5.0'	5	0.2	8
			12567	3%	219	224	5.0	5	0.3	11

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_

HOLE NO. 84 - 002 SHEET NO. 4

FOOTAGE		DESCRIPTION	SAMPLE			Au	Ag	ASSAYS	
FROM	TO		NO.	% SULPHIDES	FOOTAGE FROM TO TOTAL	ppb	ppm	ppm	
234.5	264.0'	<p><u>DACITE TUFF</u></p> <p>fine grained, medium to dark grey, hard, well foliated tuff. Some units show crystal fragments at 55° to C.L. Fine disseminated pyrite to 2%.</p> <p>237.5 - 238.0' finely banded at 70° to C.L. foliated flow with some crenulation visible.</p> <p>238.8 - 239.5 strongly epidotized crystal tuff</p> <p>245 barren quartz vein @ 30° to C.L.</p>	12568	4%	245 248 3.0'	5	0.4	45	
			12569	2%	248 250 2.0'	5	0.3	50	
264.0'	276.0'	<p><u>RHYOLITE CRYSTAL TUFF</u></p> <p>pale grey, finely banded, silica rich tuff with white broken crystals. Fine disseminated pyrite up to 2% in blebs. Narrow alteration zones showing silicification and epidotization along hairline fractures.</p>							
276.0'	338.0	<p><u>RHYOLITE TO DACITE TUFF</u></p> <p>fine pale grey to medium grey, tuff. Narrow crystal tuff zones @ 60° to C.L. Fine disseminated pyrite to 3% as blebs and euhedral (to 0.5") crystals. Quartz veining with faint epidotization associated.</p> <p>291 - 295 series of narrow quartz veins, barren</p>							

PAPER CASE - TORONTO - 1961-1962

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_

HOLE NO. 84 - 002

SHEET NO. 5

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS			
FROM	TO		NO	SULPH IDES	FOOTAGE		Au	Ag	Cu
					FROM	TO	TOTAL	ppb	ppm
	303.5 - 305.5	Narrow quartz veins @ 80° to C.L. barren.							
	313.8 - 314.5	As above							
	316.8 - 317.2	Quartz veins @ 80° to C.L. barren							
	320	Quartz vein, epidotized, barren							
		END OF HOLE							
		338.0'							

CAN. IND. BUREAU OF MINES - 1962 FORM 2

5

N

@ 0+80E

84-002 (-46°)  
Collared at 0+50 m N

SURFACE

12562  
12563  
Dacite Crystal Tuff

Rhyolitic to Dacitic Tuff

12564  
12565  
Alteration Zone

Rhyolite Crystal Tuff

Rhyolite Tuff

12566  
12567  
Rhyolite Crystal Tuff

12568  
12569  
Dacite Tuff

Rhyolite Crystal Tuff

Rhyolitic to Dacitic Tuff

END OF HOLE  
338.0'

SCALE: 1 inch = 50 feet

TOTAL 8 SAMPLES

CROSS SECTION DDH 84-002

DOUBLE 'A' PROPERTY  
GOLD HILL RESOURCES INC.

# DIAMOND DRILL RECORD

NAME OF PROPERTY Gold Hill Resources - Double 'A' Property  
 HOLE NO. 84-003 LENGTH 301.0'  
 LOCATION L0+00 @ 1+70S  
 LATITUDE \_\_\_\_\_ DEPARTURE \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ AZIMUTH 210° DIP -45°  
 STARTED Nov. 1/83 FINISHED November 3, 1984

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
0	-45°	210°			
300	-52°	210°			

HOLE NO. 84-003 SHEET NO. \_\_\_\_\_

REMARKS \_\_\_\_\_

LOGGED BY M. Jensen

FOOTAGE		DESCRIPTION	SAMPLE				ASSAYS			
FROM	TO		NO.	% SULPHIDES	FOOTAGE		Au	Ag	Cu	
					FROM	TO	TOTAL	ppb	ppm	oz/TON
0	15.0	CASING								
15.0	68.0	INTERBANDED RHYOLITE TO DACITE TUFF								
		<p>Pale grey to grey green, fine grained, well foliated tuff. Dacitic composition increases with depth. Well foliated @ 60% to CL. Hornblende needles are randomly oriented and present up to 15% of unit. These enehedral laths give the unit a dark green sheen. Fine disseminated pyrite to 2% however few stringers were noted. Narrow hazy quartz stringers visible at 30 to 60° to C.L. A few rhyolite crystal tuff interbands noted @ 29.3, 33.0</p> <p>39.8 - 41.3 strong quartz veining at 65° to C.L. Entire zone is chloritized.</p> <p>39.8 - 40.3 quartz vein at 65% C.L. vuggy with chlorite needles throughout</p> <p>44.0 quartz vein @ 30° to C.L. minor potassic alteration</p> <p>44 - 45 Rhyolite crystal tuff</p> <p>46 - 68 Garnet development becoming visible small and hazy</p> <p>56.6 - 57.3 rhyolite crystal tuff</p>								
			12570	4%	39	42	3.0	20	0.4	54



# DIAMOND DRILL RECORD

NAME OF PROPERTY...

HOLE NO. 84-003

SHEET NO.

2

FOOTAGE		DESCRIPTION	SAMPLE			Au	Ag	ASSAYS		
FROM	TO		ID	SULPHIDES	FOOTAGE		ppb	ppm	%	
					FROM	TO	TOTAL			0.2 TON
66.0'	85.5'	<p><u>DACITE TUFF</u></p> <p>fine to coarse grained tuff, very silicic with extensive Chloritization in areas. Fine shattering from 74 - 84.0' shows minor chloritization and epidotization along and adjacent to fractures. Fine disseminated pyrite visible to 2%.</p>								
85.5'	131.0	<p><u>RHYOLITE TO DACITE LAPILLI TUFF</u></p> <p>Coarse, silicic tuff with large rhyolitic fragments to 3.0. Fragments are elongated and aligned along foliation at 65° to C.L. The stretch ratio is 3:1. Blebs and stringers of euhedral to subhedral pyrite and pyrrhotite to 4%. Hazy garnet development which becomes stronger at depth. Some areas show shattering and minor quartz healing. Sulphide development also becomes stronger at depth.</p> <p>86 - 96 strong lapillituff with stringer sulphides py, po, cpy</p> <p>96 - 104 tuff with minor lapille fragments, strong sulphides</p> <p>104-125 lapilli tuff with sulphides</p> <p>101-111 shattered rhyolite tuff</p> <p>125-131 lapilli tuff - minor fragments highly chloritized</p>								
			12571	4%	86	91	5.0'	5	0.3	25
			12572	3%	91	96	5.0'	5	0.2	34
			12573	2%	96	101	5.0'	<5	0.2	33
			12574	3%	101	106	5.0'	5	0.3	54
			12575	3%	106	111	5.0'	55	0.4	53
			12576	4%	111	116	5.0'	5	0.4	34
			12577	4%	116	121	5.0'	5	0.3	28
			12578	3%	121	126	5.0'	<5	0.4	28
			12579	3%	126	131	5.0'	<5	0.4	27
131	133.5	<p><u>QUARTZ VEIN</u></p> <p>Coarse grained qtz vein at 60° to C.L. with blebs, blotches and stringers of subhedral pyrite, pyrrhotite and chalcopyrite to 20%. Sulphides interstitial to large euhedral quartz crystals and chloritized rock fragments, chloritized alteration for 0.5' on either side of vein.</p>	12580	20%	131	133.5	2.5'	<5	0.2	11

LANGRISHES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_

HOLE NO 84-003

SHEET NO. 3

FOOTAGE		DESCRIPTION	SAMPLE			Au	Ag	ASSAYS		
FROM	TO		NO	SULPH	FOOTAGE	ppb	ppm	Cu		
								FROM	TO	TOTAL
133.5	154'	<u>FINE GRAINED SILICEOUS GARNET AMPHIBOLITE</u>  Metamorphosed dacitic to Andesitic lapilli tuff. Medium grey to greenish grey, silicious lapilli tuff with well developed hornblende crystals and garnet porphyroblasts well foliated at 50° to C.L. Disseminated sulphides to 3%. Qtz veining at 20 - 60° to C.L. Stringer sulphides at 60° to C.L.  149.5 - 151 Coarse grained quartz vein at 70° to C.L. With minor chloritization and epidotization.								
			12581	3%	133.5	136	2.5'	< 5	0.3	20
			12582	3%	136	141	5.0'	10	0.2	25
			12583	3%	141	146	5.0'	5	0.2	27
			12584	3%	146	149.5	3.5'	5	0.3	28
			12585	3%	149.5	151	1.5'	< 5	< 0.2	< 1
			12586	3%	151	154	3.0'	< 5	0.2	9
154.0	159.2'	<u>(SULPHIDE RICH MAFIC FLOW) AMPHIBOLITE</u>  finely foliated, homogeneous, dark green to grey, fine grained mafic flow. Finely banded, minor crenulations Large garnet porphyroblasts and chloritic fragments are in finely laminated tuff. Fine disseminated py, pu, cpy to 40% Slump features visible								
			12587	30%	154	156	2.0'	30	0.4	24
			12588	40%	156	159.2	3.2'	10	0.4	31
159.2	186.0	<u>GARNET AMPHIBOLITE</u>  Metamorphosed lapilli tuff (Andesite) coarse grained dark green foliated at 60° to C.L. Large garnet porphyroblasts to 0.5 and 20%. Disseminated and stringer sulphides throughout aligned along foliation  183-186 Rhyolite to dacitic lapilli unit Sulphides to 20% in areas								
			12589	15%	159.2	162	1.8'	< 5	0.3	13
			12590	20%	162	166	4.0'	< 5	0.2	8

LANGRISHES - TORONTO - 366-1168

# DIAMOND DRILL RECORD

NAME OF PROPERTY \_\_\_\_\_

HOLE NO 84-003

SHEET NO 4

FOOTAGE		DESCRIPTION	SAMPLE			Au	Ag	ASSAYS			
FROM	TO		TO ID'S	SHI PH ID'S	FOOTAGE		ppb	ppm	oz TON	oz TON	
					FROM	TO	TOTAL	ppm			
186.0	225	<p><u>SULPHIDE RICH AMPHIBOLITE</u></p> <p>fine grained dark green to black amphibolite. Possibly originally a flow. Slatey texture in areas. Tuff with pyrite and pyrrhotite-rich matrix. Sulphides vary from 5 - 25% of unit. Foliated at 60° to C.L.</p>	12592	20%	196	201	5.0'	<5	0.2	27	
			12591	20%	211	216	5.0'	<5	0.2	63	
			12593	20%	201	206	5.0	<5	0.3	52	
225	245	<p><u>GARNET AMPHIBOLITE</u></p> <p>As above, only disseminated sulphides to 3%, foliated at 60° to C.L.</p>									
245	301	<p><u>DACITE TO ANDESITE TUFF</u></p> <p>coarse grained intercalated dacitic to andesitic tuff. Minor lapilli tuff interbands. Hornblende crystals well developed to 20%. All chloritized, quite silicious in areas. Hazy garnet porphyroblasts. Disseminated sulphides to 2%.</p> <p>END OF HOLE</p> <p>301.0'</p>									

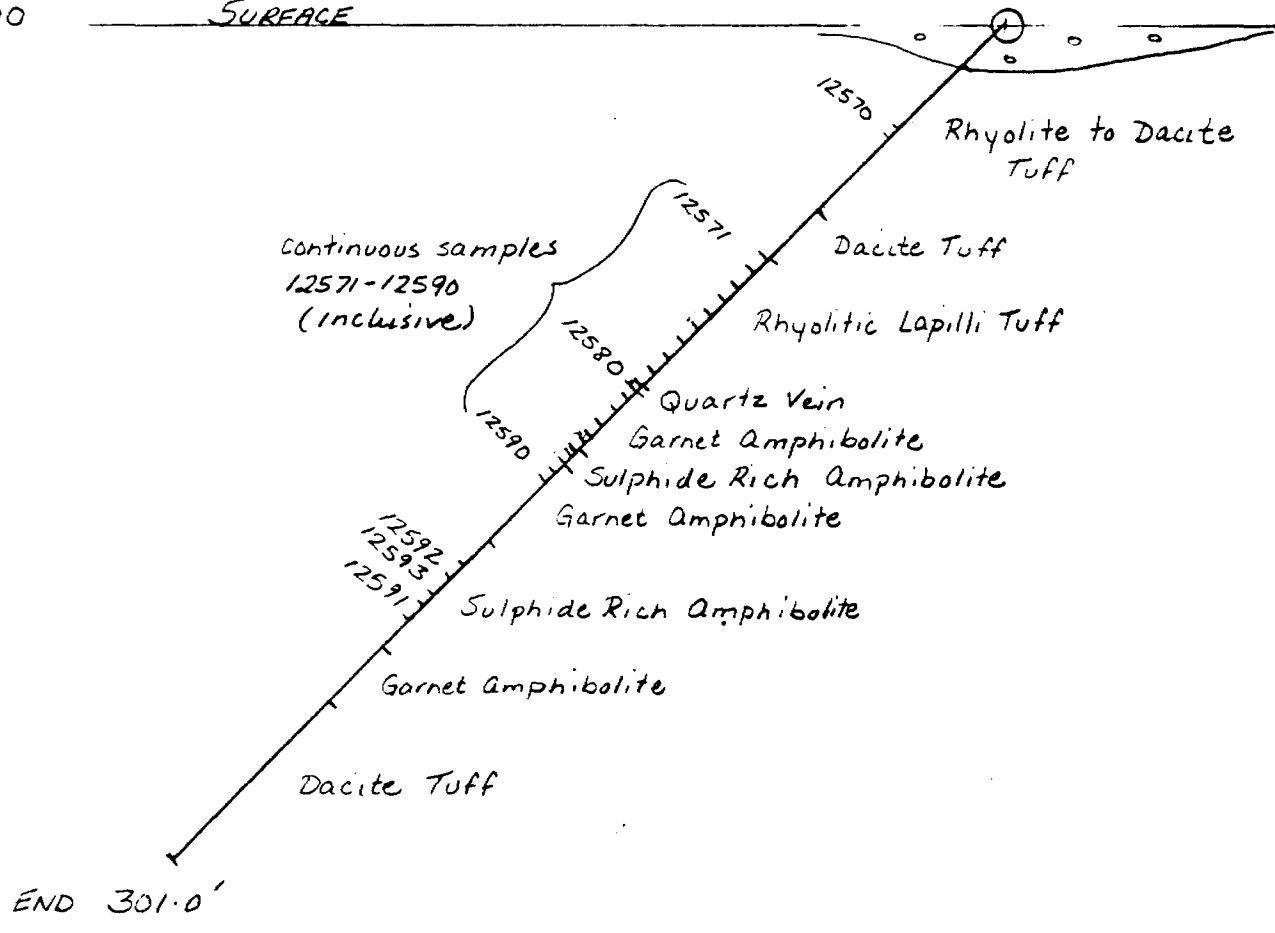
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L0+00

SURFACE

84-003 (-45°)  
collared at 1+70 m S



SCALE: 1 inch = 50 feet

TOTAL 24 CORE SAMPLES

CROSS SECTION DDH 84-003

DOUBLE 'A' PROPERTY  
GOLDHILL RESOURCES INC.

- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

# TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

TELEX 06-960215

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Hill Resources  
41 Shallmar Blvd.  
Toronto Ontario  
M6C 2K1

ATTN Mr. Avrom Howard

REPORT No.

T8375-1

SAMPLE(S) OF CORE

Inv# 26988

P.O. /

	Gold (Au) ppb FA/AA	Silver (Ag) ppm	Copper (Cu) ppm
#12542	5	0.4	36
#12543	<5	0.4	57
#12544	5	0.2	640
#12545	<5	0.3	31
#12546	No sample	No sample	No sample
#12547	5	0.3	29
#12548	<5	0.3	22
#12549	<5	0.4	20
#12550	5	<0.2	36
#12551	5	<0.2	42
#12552	<5	0.3	28
#12553	<5	<0.2	29
#12554	5	<0.2	51
#12555	10	<0.2	12
#12556	<5	<0.2	36
#12557	5	0.3	35
#12558	<5	0.4	28
#12559	5	0.4	56
#12560	5	0.3	41
#12561	15	0.4	40
#12562	5	0.4	53

*Sample deleted*

Samples, Pulps and Rejects discarded after two months

DATE Nov. 15/84

SIGNED *J. S. [Signature]*



For any enquiries on this report, please contact Customer Service Department - Edith Anzil

- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Hill Resources  
41 Shallmar Blvd.  
Toronto Ontario  
M6C 2K1

ATTn Mr. Avrom Howard

REPORT No.

T8375-2

SAMPLE(S) OF CORE

Inv# 26988  
P.O. /

	Gold (Au) ppb FA/AA	Silver (Ag) ppm	Copper (Cu) ppm
#12563	5	0.4	40
#12564	5	0.2	37
#12565	<5	0.3	32
#12566	5	0.2	8
#12567	<5	0.3	11
#12568	5	0.4	45
#12569	5	0.3	50
#12570	20	0.4	54
#12571	5	0.3	25
#12572	5	0.2	34
#12573	<5	0.2	33
#12574	5	0.3	54
#12575	55	0.4	53
#12576	5	0.4	34
#12577	5	0.3	28
#12578	<5	0.4	28
#12579	<5	0.4	27
#12580	<5	<0.2	11
#12581	<5	0.3	20
#12582	10	0.2	25
#12583	5	0.2	27

Samples, Pulps and Rejects discarded after two months

DATE Nov. 15/84

SIGNED *[Signature]*



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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

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TELEX 06-960215

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Hill Resources  
41 Shallmar Blvd.  
Toronto Ontario  
M6C 2K1

ATTn Mr. Avrom Howard

REPORT No.  
T8375-3

Inv# 26988  
P.O. /

SAMPLE(S) OF CORE

	Gold (Au) ppb FA/AA	Silver (Ag) ppm	Copper (Cu) ppm
#12584	5	0.3	18
#12585	<5	<0.2	<1
#12586	<5	0.2	9
<del>#12587</del>	No sample	No sample	No sample
#12588	10	0.4	31
#12589	<5	0.3	13
#12590	<5	0.2	8
#12591	<5	<0.2	63
#12592	<5	0.2	27
#12593	<5	0.3	52
Unmarked Sample	30	0.4	24
#12587			

Samples, Pulps and Rejects discarded after two months

DATE Nov. 15/84

SIGNED *[Signature]*



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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

TELEX 06-960215

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Gold Hill Resources  
41 Shallmar Blvd.  
Toronto Ontario  
M6C 2K1

REPORT No.

T8376-1

ATTn Mr. Avrom Howard

SAMPLE(S) OF

SLUDGE

Inv# 26990

P.O. /

	Gold (Au) ppb FA/AA	Silver (Ag) ppm	Copper (Cu) ppm
#12594	5 <5	0.2	120
#12595	5	0.5	141
#12596	<5	0.5	179
#12597	<5	<0.2	54
#12598	<5	<0.2	51
#12599	<5	0.5	145
#12600	<5	0.3	102
#6802	5	0.2	95
#6803	35	0.4	242
#6804	5 5	<0.2	60
#6805	5	0.7	259
#6806	<5	0.4	185
#6807	<5	0.2	65
#6808	10	0.4	89
#6809	15 5	0.7	239
#6810	<5	0.3	185
#6811	10	0.7	131
#6812	5	0.4	188
#6813	5	1.8	239
#6814	5 <5	1.2	132
#6815	5	1.2	250

Samples, Pulps and Rejects discarded after two months

DATE Nov. 15/84

SIGNED *M. S. Bourne*



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DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

TELEX 06-960215

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Gold Hill Resources  
41 Shallmar Blvd.  
Toronto Ontario  
M6C 2K1

REPORT No.

T8376-2

ATTn Mr. Avrom Howard

SAMPLE(S) OF

SLUDGE

Inv# 26990

P.O. /

	Gold (Au) ppb FA/AA	Silver (Ag) ppm	Copper (Cu) ppm
#6816	<5	0.5	103
#6817	<5	0.8	190
#6818	15	36.0	440
#6819	5 5	0.7	149
#6820	5	0.3	72
#6821	5	0.4	93
#6822	5	3.2	1260
#6823	20	0.8	108
#6824	<5 <5	1.0	430
#6825	15	4.8	450
#6826	<5	0.6	210
#6827	<5	1.3	134
#6828	<5	0.6	145
#6829	<5 <5	0.5	450

Samples, Pulps and Rejects discarded after two months

DATE Nov. 15/84

SIGNED *[Signature]*



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- CONTRACT LABORATORIES

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1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

TELEX 06-960215

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Hill Resources  
41 Shallmar Blvd.  
Toronto Ontario  
M6C 2K1

ATTn Mr. Avrom Howard

REPORT No.

T8377-1

SAMPLE(S) OF SOIL

Inv# 26989

P.O. /

	Gold (Au) ppb FA/AA	Silver (Ag) ppm
#12501	<5	<0.2
#12502	5	<0.2
#12503	5	<0.2
#12504	5	<0.2
#12505	<5	<0.2
#12506	5	<0.2
#12507	25	<0.2
#12508	5	<0.2
#12509	5	0.2
#12510	10	<0.2
#12511	5	<0.2
#12512	5	<0.2
#12513	5	<0.2
#12514	<5	<0.2
#12515	10	<0.2
#12516	5	<0.2
#12517	35	<0.2
#12518	20	<0.2
#12519	5	<0.2
#12520	5	<0.2
#12521	<5	<0.2

Samples, Pulps and Rejects discarded after two months

DATE Nov. 15/84

SIGNED *[Signature]*

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- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

# TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE (416) 625-1544

TELEX 06-960215

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Gold Hill Resources  
41 Shallmar Blvd.  
Toronto Ontario  
M6C 2K1

ATTn Mr. Avrom Howard

REPORT No. T8377-2
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SAMPLE(S) OF SOIL

Inv# 26989  
P.O. /

	Gold (Au) ppb FA/AA	Silver (Ag) ppm
#12522	<5	<0.2
#12523	10	<0.2
#12524	5	<0.2
#12525	15	<0.2
#12526	5	<0.2
#12527	<5	<0.2
#12528	5	<0.2
#12529	5	<0.2
#12530	<5	<0.2
#12531	<5	<0.2
#12532	5	<0.2
#12533	5	<0.2
#12534	5	<0.2
#12535	5	<0.2
#12536	10	<0.2
#12537	5	<0.2
#12538	25	<0.2
#12539	5	<0.2
#12540	5	<0.2
#12541		

Samples, Pulps and Rejects discarded after two months

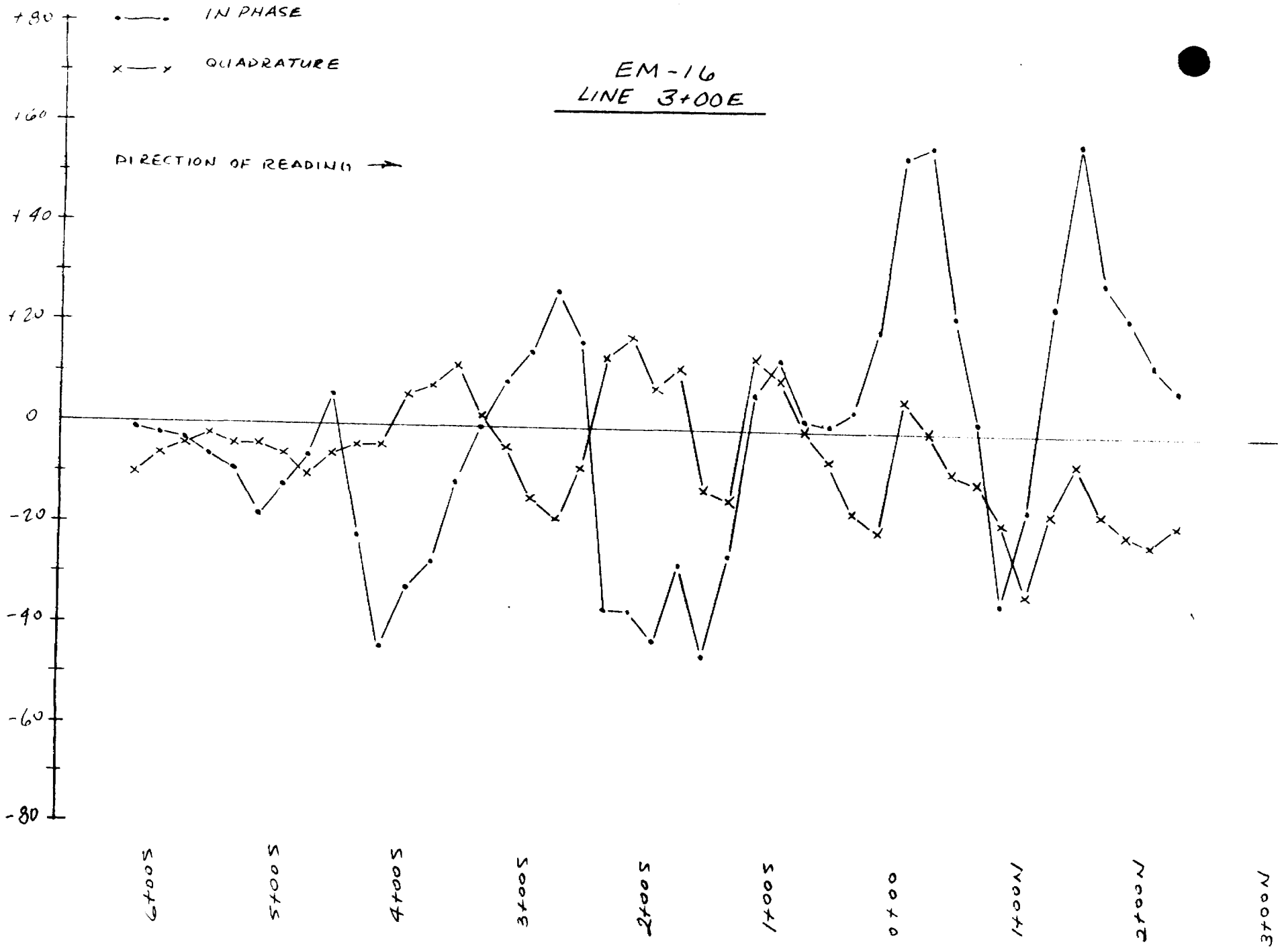
DATE Nov. 15/84

SIGNED *[Signature]*

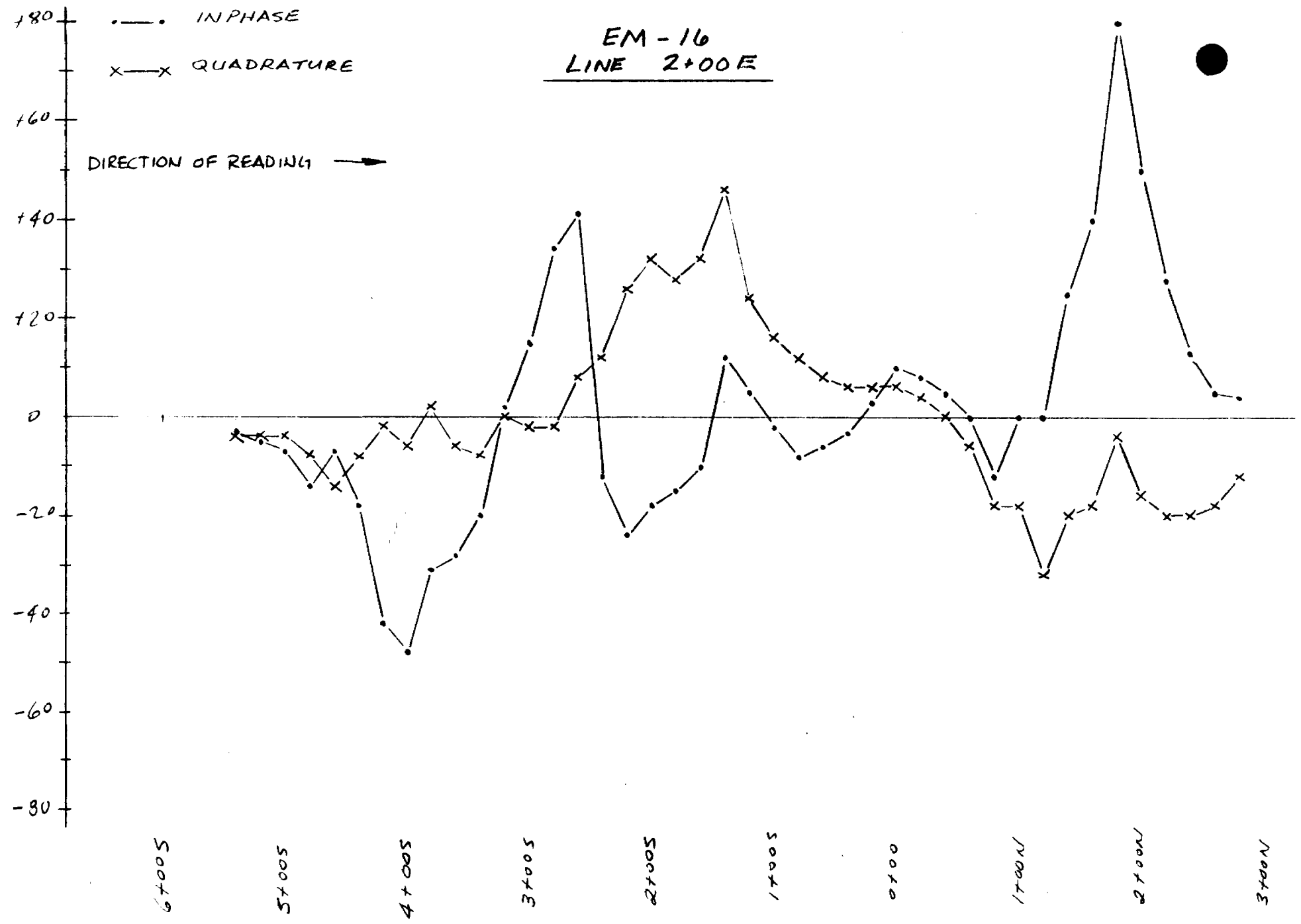


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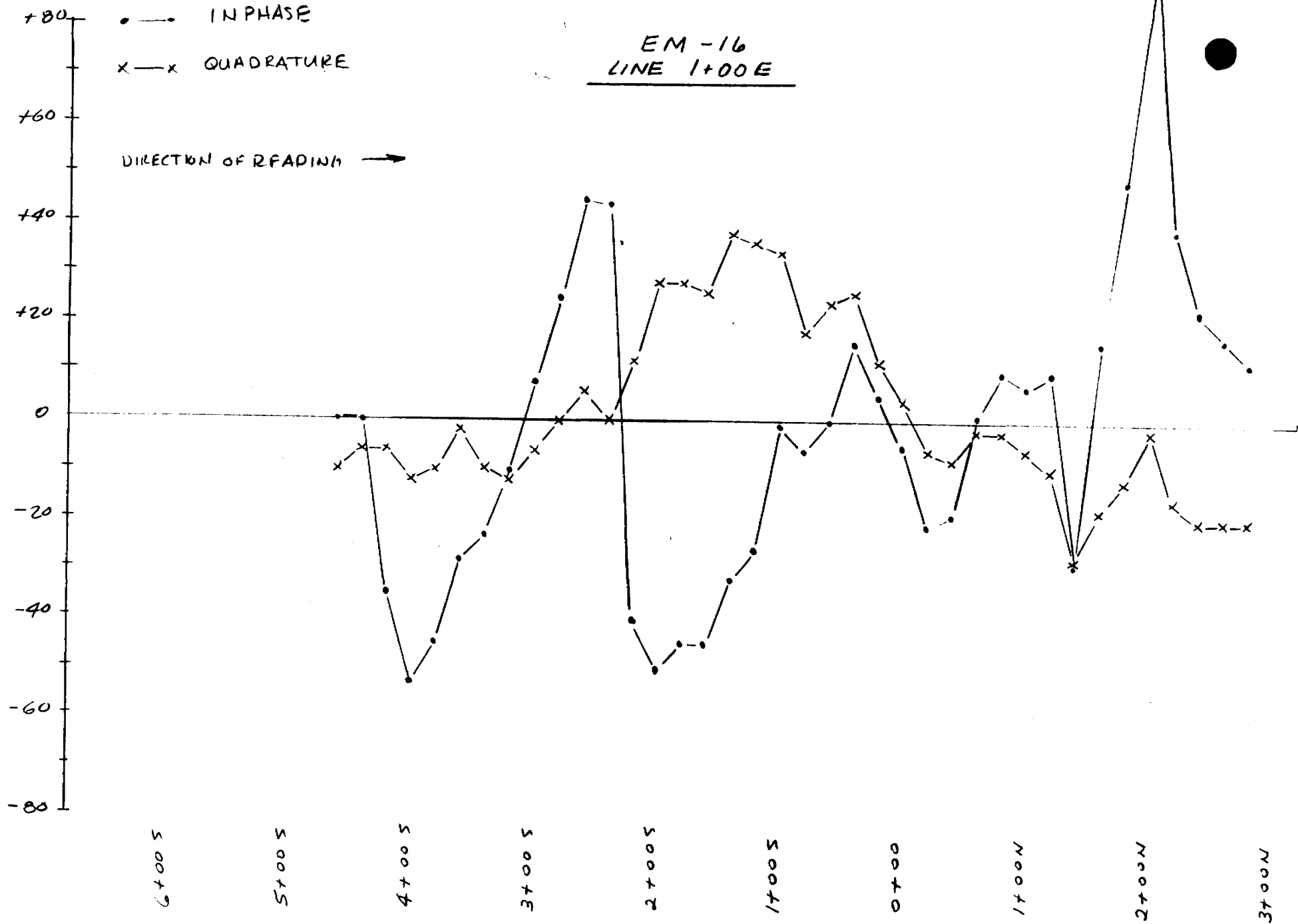
EM-16  
LINE 3+00E



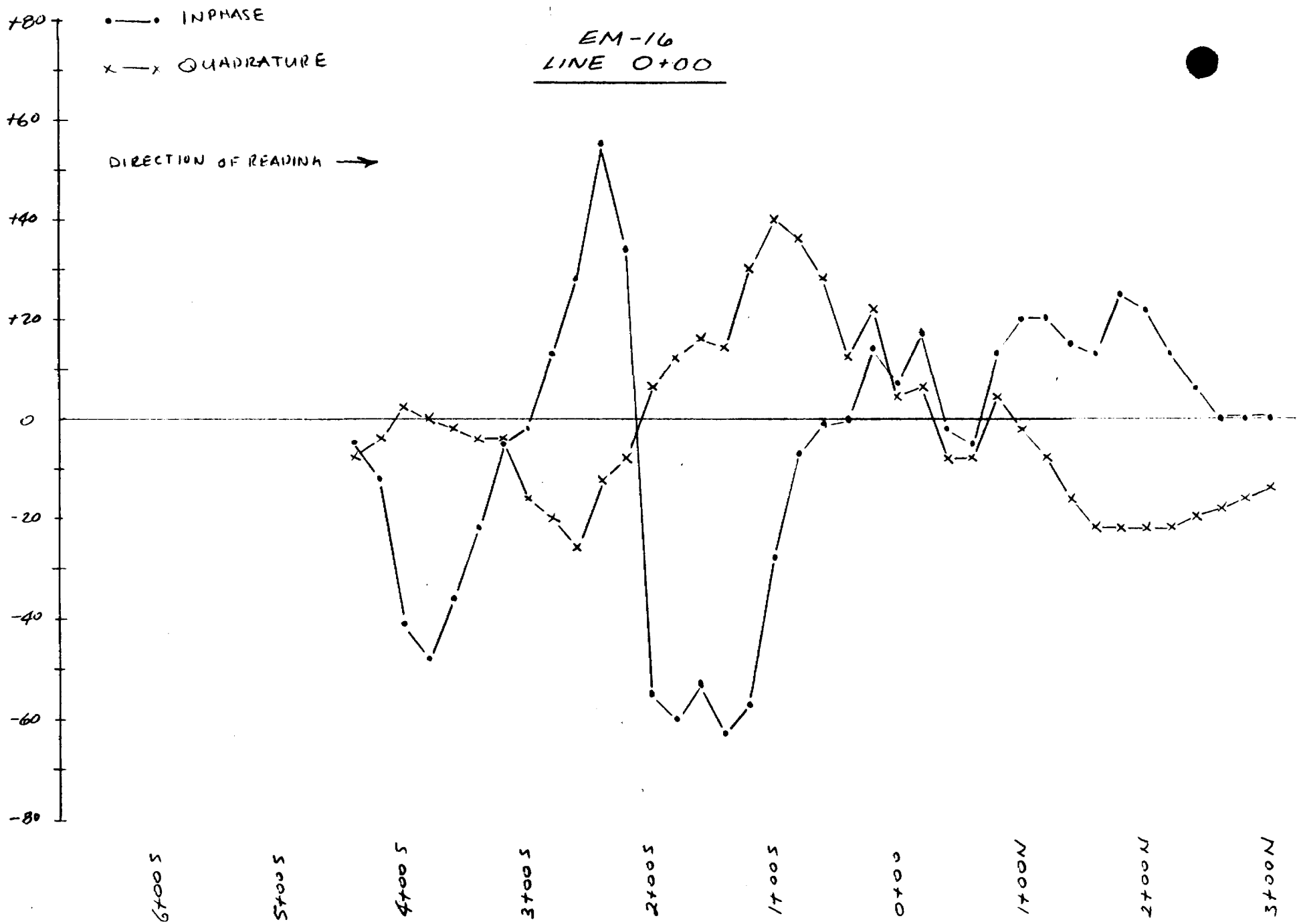
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LINE 2+00E

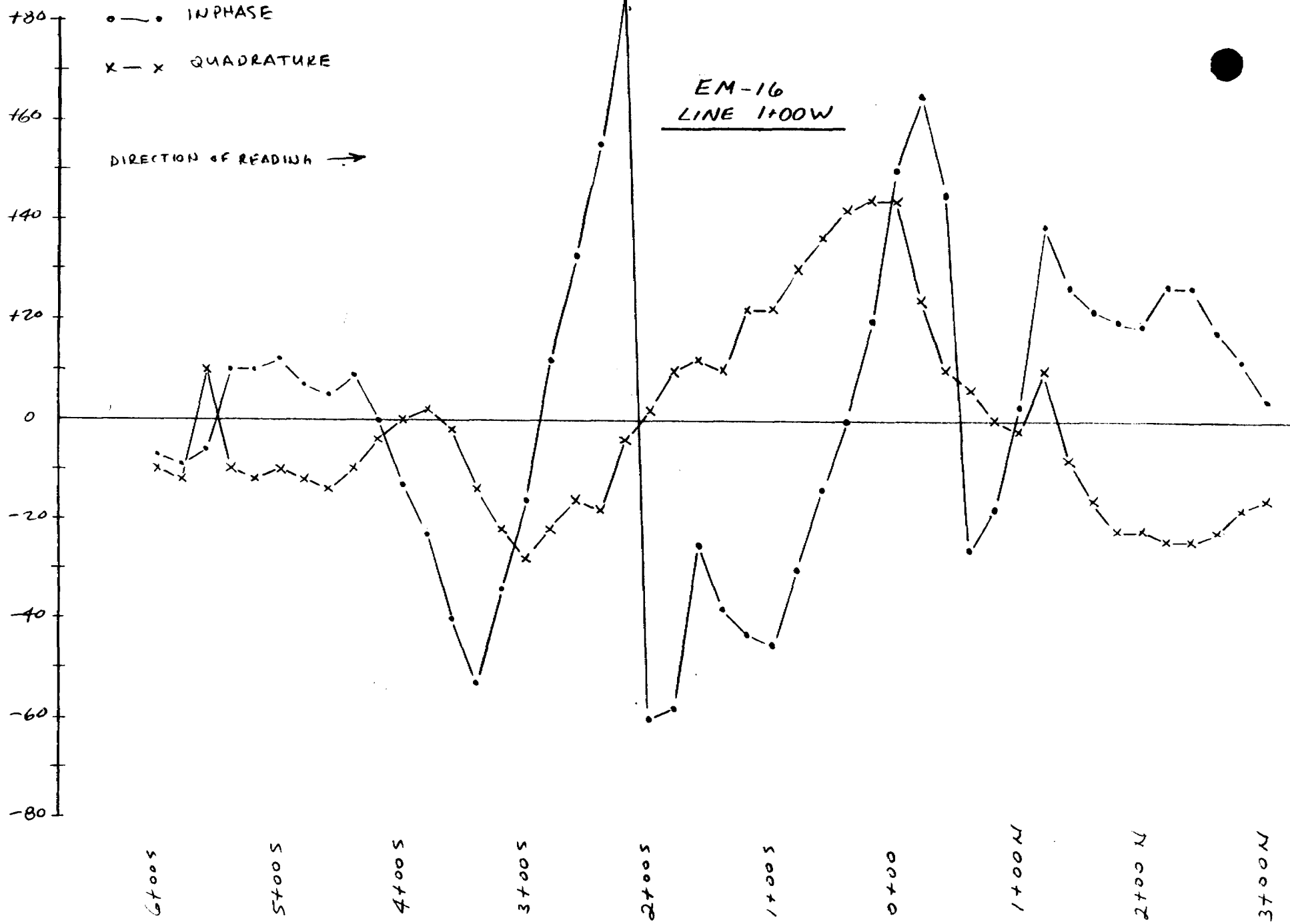


EM-16  
LINE 1+00E

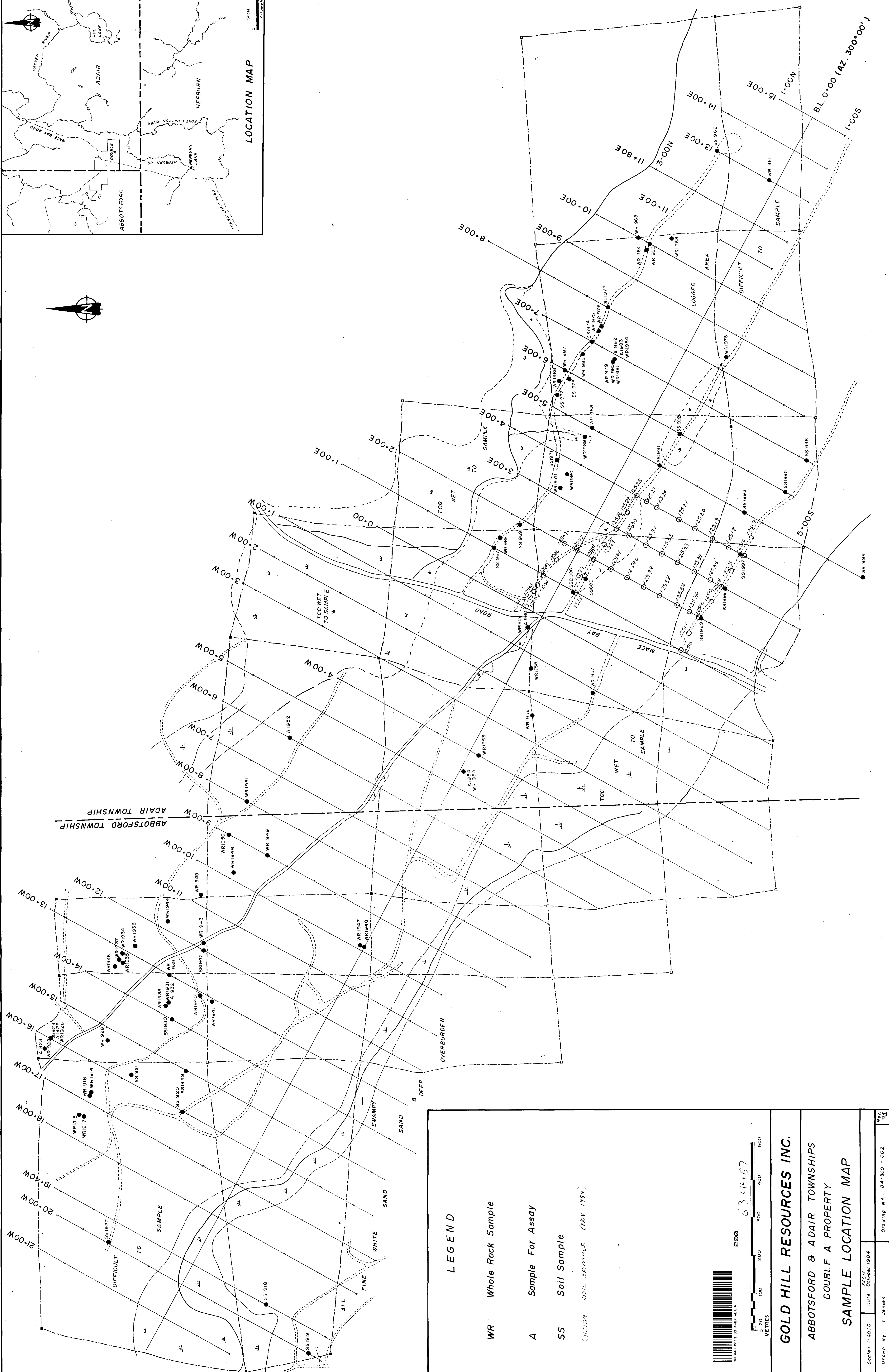
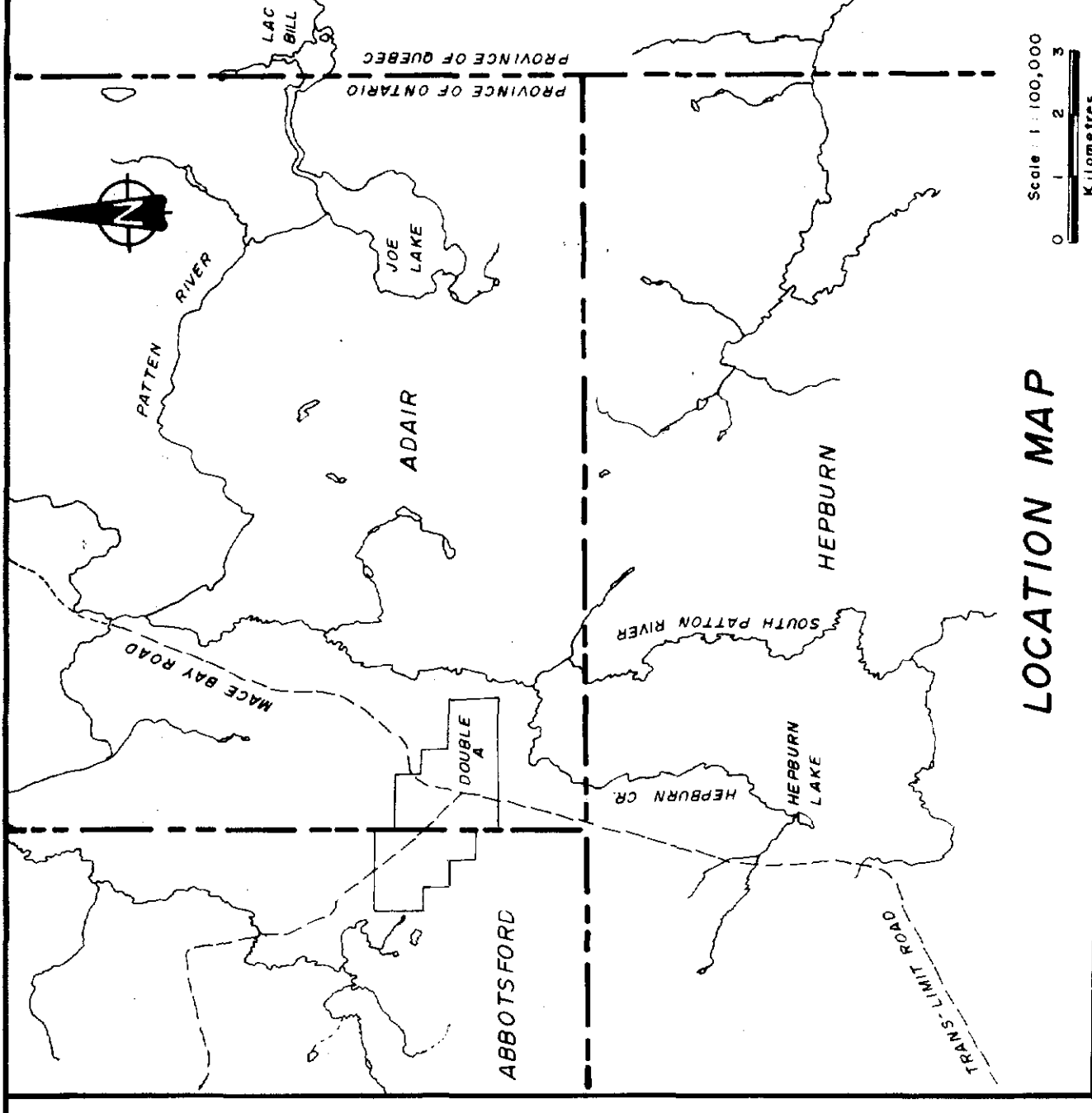


EM-16  
LINE 0+00



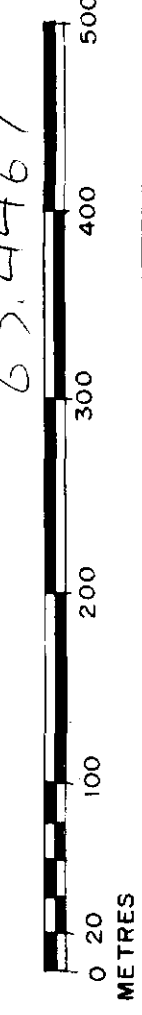




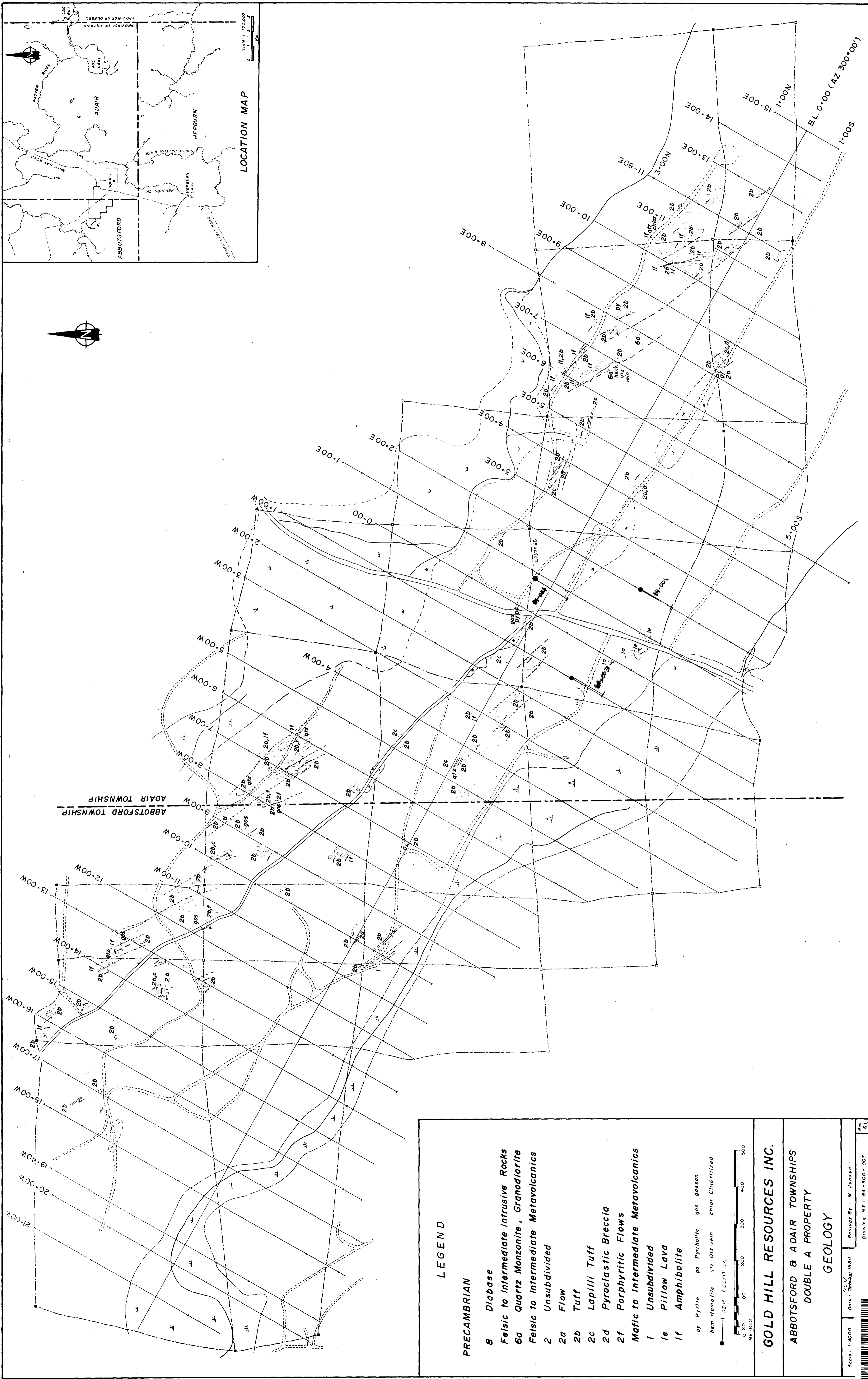
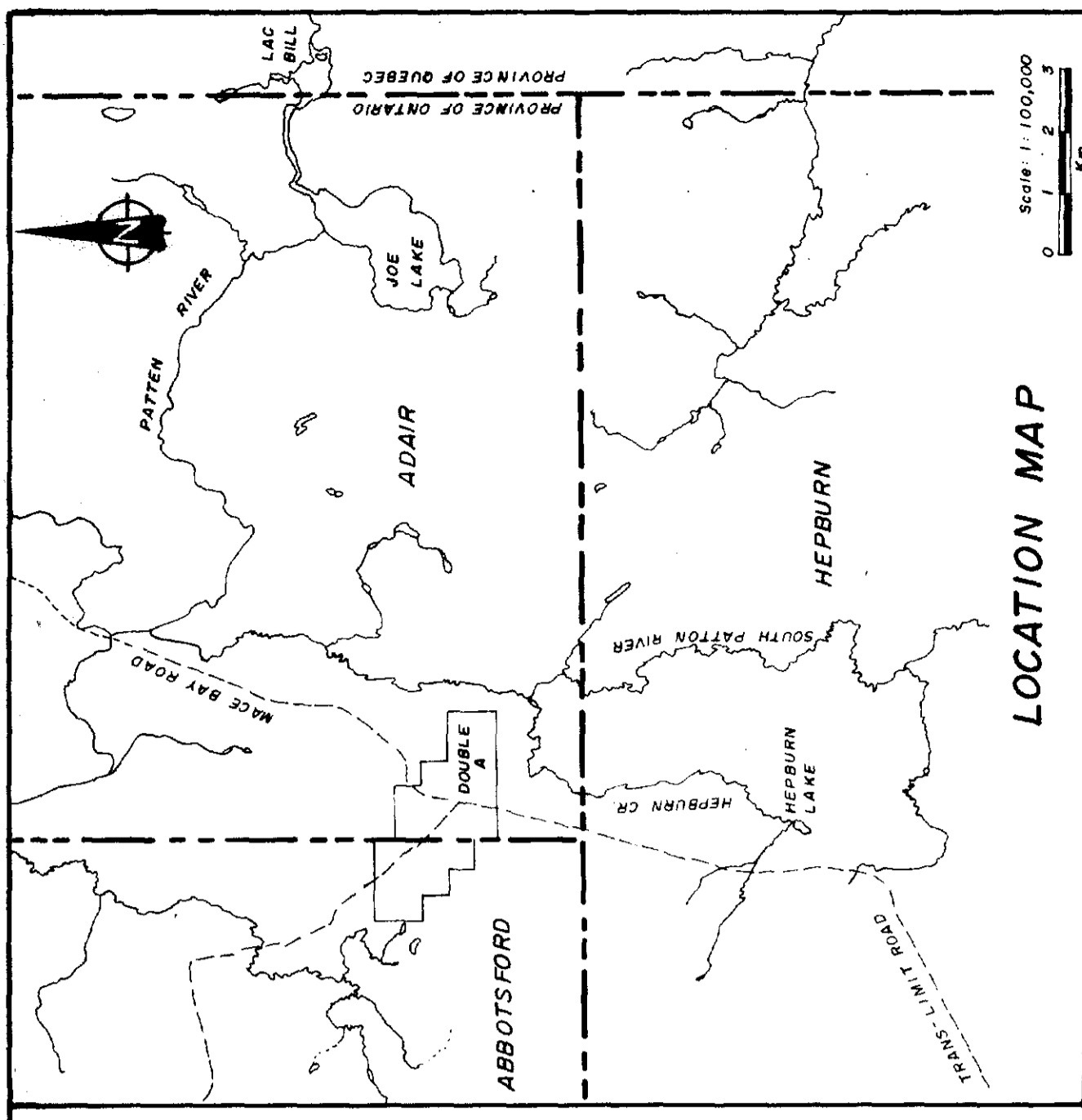


**LEGEND**

- WR Whole Rock Sample
- A Sample For Assay
- SS Soil Sample
- ( ) CS34 SOIL SAMPLE (Nov 1984)



**GOLD HILL RESOURCES INC.**  
**ABBOTSFORD & ADAIR TOWNSHIPS**  
 DOUBLE A PROPERTY  
**SAMPLE LOCATION MAP**

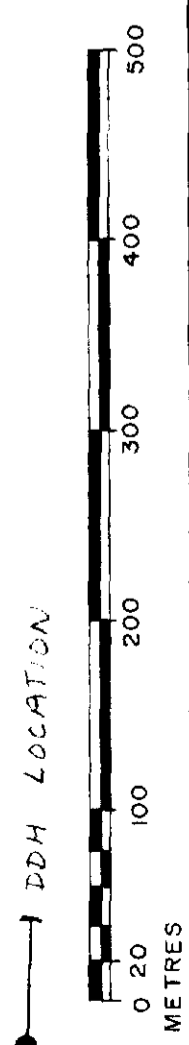


**LEGEND**

**PRECAMBRIAN**

- 8 Diabase**
- Felsic to Intermediate Intrusive Rocks**
- 6a Quartz Monzonite, Granodiorite**
- Felsic to Intermediate Metavolcanics**
- 2 Unsubdivided**
- 2a Flow**
- 2b Tuff**
- 2c Lapilli Tuff**
- 2d Pyroclastic Breccia**
- 2f Porphyritic Flows**
- Mafic to Intermediate Metavolcanics**
- 1 Unsubdivided**
- 1e Pillow Lava**
- 1f Amphibolite**

- py Pyrite
- hem Hematite
- qtz Quartz vein
- pyr Pyrrhotite
- gos Gossan
- chlor Chloritized



**GOLD HILL RESOURCES INC.**  
**ABBOTSFORD & ADAIR TOWNSHIPS**  
**DOUBLE A PROPERTY**  
**GEOLOGY**