

Diamond Drilling



42A13SE0016 17 GEARY

010

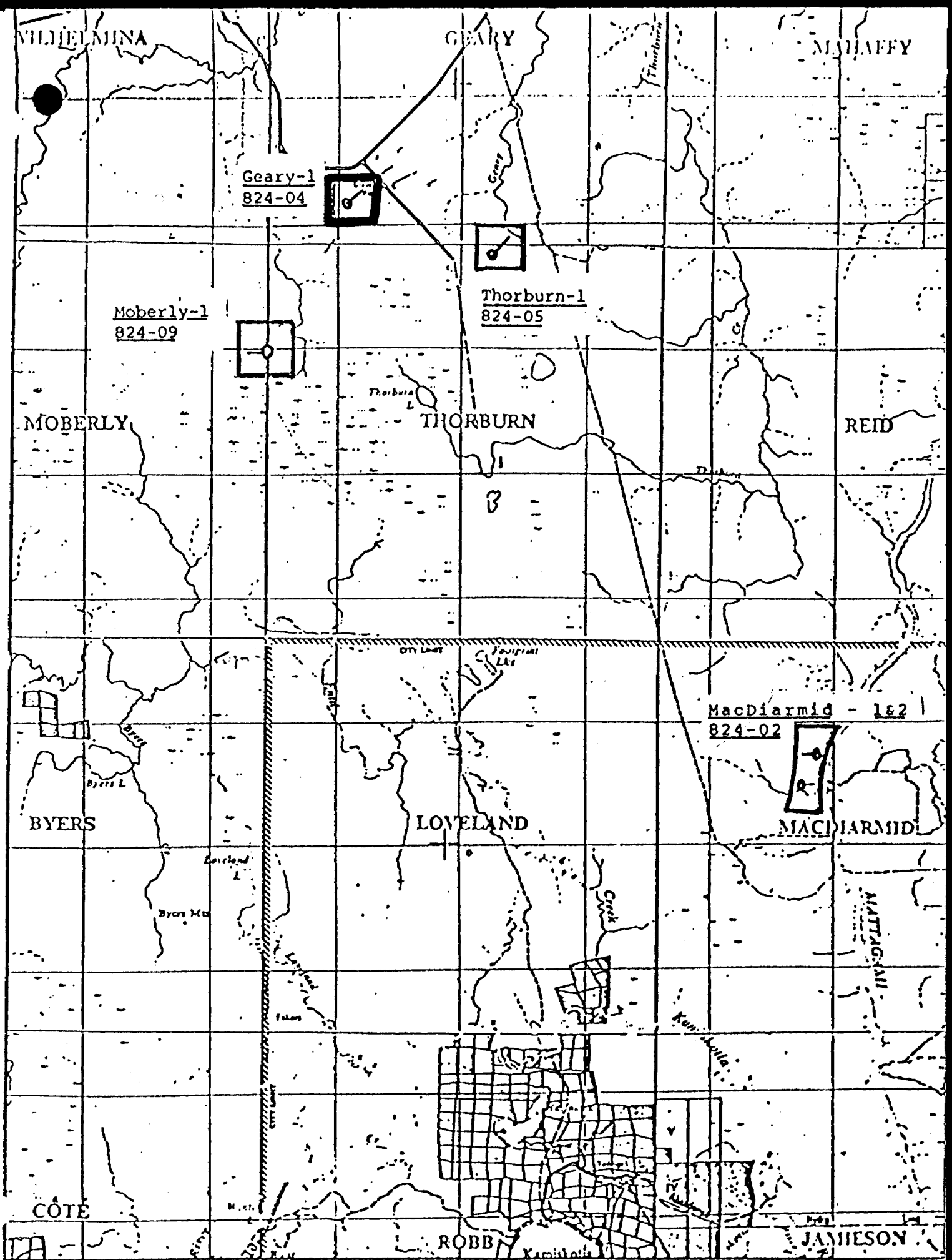
Township GEARY

Report NO 17

Work performed by: AMAX MINERALS

Claim NO	Hole NO	Footage	Date	Note
P 500010				
P 500013	Geary 1	533'	March/79	(1)

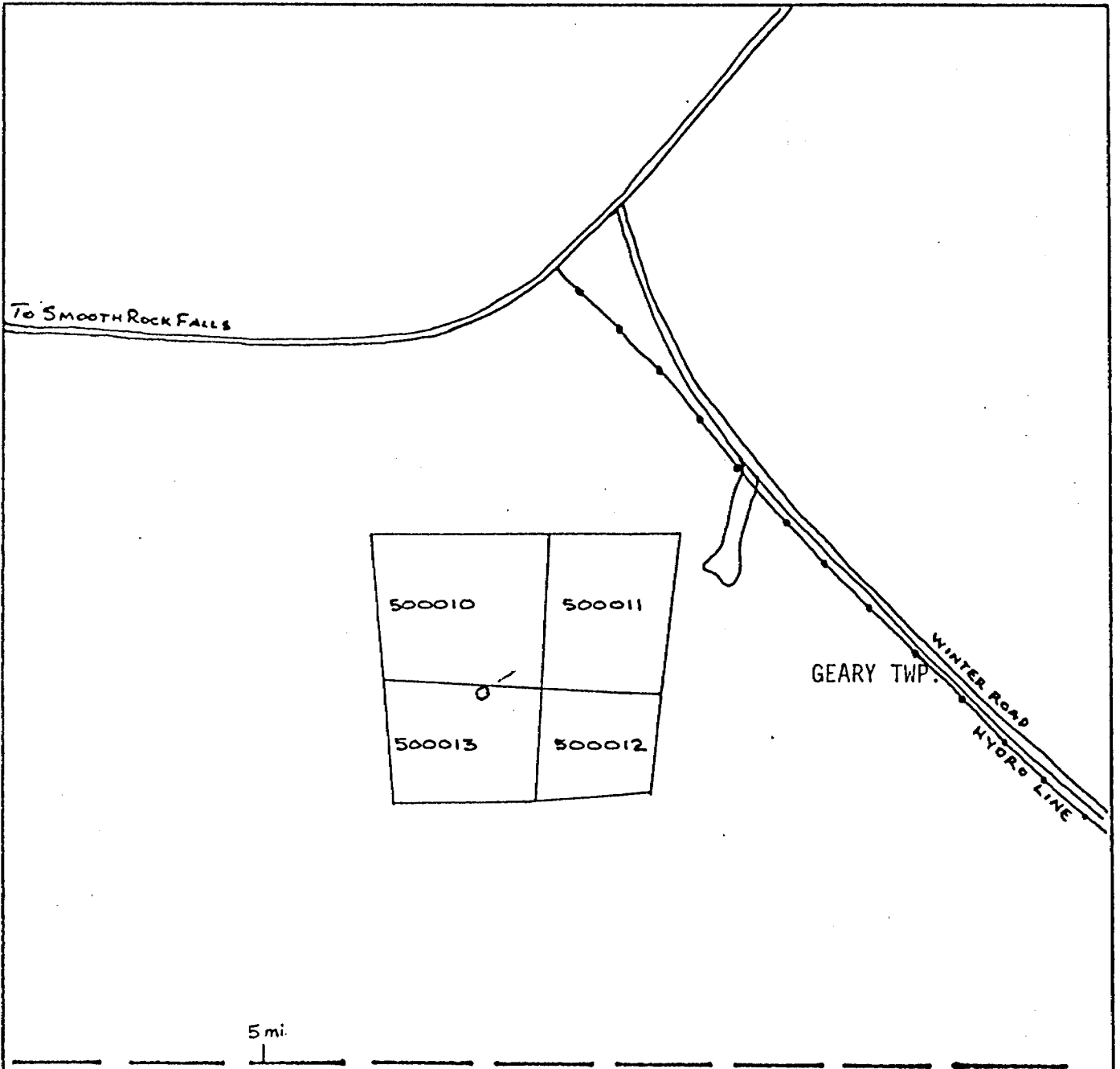
Notes: (1) Hole Collared in P 500013 and Drilled into P 500010



MAP SHOWING LOCATION OF CLAIM GROUPS AND DRILL HOLES. SCALE 1" = 2 miles.

FIGURE 2

D. D.



GEARY TWP.

THORBURN TWP.

CLAIM MAP  
PROJECT 324-04

AMAX  
GEARY-01  
Geary Township

Scale: 1" = 1/4 mile

MOLE NO. **GEARY 1**

Line **375 N.**  
**2+75m W.**  
GROUND ELEV.:

PROJECT: **B24-04**

PAGE NO: **1** OF **7**

**T.O. File 2.2694**

CASING COLLAR ELEV.:

DATE STARTED: **13<sup>th</sup> March 1979.**

REF. TO CLAIM CORNER:

COÖRDINATES:

N. E.

DATE FINISHED: **16<sup>th</sup> March 1979**

SCALE: **1:120**

INCLINATION: **-52°**

BEARING: **042°**

TOTAL DEPTH: **533 ft.**

LOGGED BY: **W.S. Mitchell.**

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED			
	DESCRIPTIVE GEOLOGY																	
	DETAIL																	
							0-124' Cased to bedrock. NW and AW. Casing.											
							124-127.6 broken rock, relatively felsic section with little amph. Highly sheared at 30° to Core Axis. Shearing parallel to banding - original bedding? 127. Qtz vein. Below 127.6' increased amount of Amphibole, rock is intermed comp, altered matrix. 130.5 qtz vein 1/2" along shear.			124								
130							124-423.9 Intermediate Tuff/Lapilli tuff. Light grey, med. to fine grained tuff with lapilli in sections. Rock is intensely sheared. There is strong development of clay and talc minerals along the abundant shear planes. Shear planes are all aligned at approx 30° to 'C' axis. Matrix of the rock is also altered, soft and clay rich with sericite. Qtz and feldspar crystals and/or fragments are less altered. Unit is probably Intermediate ash. Amphibole occurs as a randomly oriented laths which are not aligned along shear foliation. Amphibole is later, possibly contact metamorphic growth.			127 99 129 99								
140							140-141 Strong colour banding, pink and green bands at 30° to Core Axis. 142-160.7 Random oriented growth of amphibole - matrix also darker coloured. 142.5-154 strongly banded section - reddish colouration; haematite stain. Darker green bands are rich in chl. and amph. Overall composition is intermediate. Random growth of amphibole is pervasive throughout this section also. Banding - strong at 34°/CA Ax.			136 98 137 100								
150							158. Qtz vein. 153.5 Qtz veining, irregular approx ± to CA. 160.7 Abrupt change in size and amount of Amph. xtals. Rock is finer grained with little fine gr. amph. Ductile composition			142 98								
160							165.7 } Quartz veins 0.1' wide, generally parallel to banding at 35°/C. Axis. 168 } 169.8 } quartz, feldspar veining - feldspar is yellowish/cream, altered. 170.3 } 171 }			149 99 152 100								
170							172.5 Quartz veins - spec py. 174.3 } Quartz feldspar veining. cream colour 177 }			159 99 166 99								
										175 100								

**DIVISION OF MINES**  
NORTHERN REGION  
**OCT 11 1979**  
RECEIVED

Rec'd FOR OUR FILES  
NOT ASSESSMENT WORK

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: Acid Dip Tests (Corrected) 124' - 48. 300 - 42. 500 - 20.	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
				DETAIL									
				GENERAL:									
				X 180-00 Irregular qtz, fsp veining. shear foliation weak at 64.5°/Core Axis. 182 qtz fsp veining at 64.2°/C. Axis.	124-423.9. Intermediate Tuff (cont)								
				187.5 qtz, fsp veining cross cutting fol. 188-188.5 qtz, fsp veining. 189. qtz fsp veining - fsp is cream-colored. 190.4 192.8 } qtz fsp. veins. 193 194.1 195-196	Rock is uniformly light grey coloured. - Occasionally flecked with dark green amphibole. Quartz and feldspar veining is very common often along the foliation direction at 045° to 'c' Axis. Rock is intensely sheared with development of clay and talc			187	100				
190				199.8 } qtz, fsp. veins. 200 200.5 } 201 201.5				192	100				
200				201.8 - 210 Amphibole common, rel. coarse grained. Growth across foliation. Possible contact metamorphic.				201	100				
				208 - .3' qtz fsp. vein. 208.6 qtz veining. 208-212. qtz veins common // to fol at 38° CA				207	100				
210				212.4 } qtz and fsp veining. 212.7 } 213.7-214 }				212	100				
				218.7-223. qtz veining common.				218	100				
220				223. 0.1' shear gauge. clayey, friable.				223	100				
				225. } qtz veins. 226.9 }				226	100				
				Abundant amphibole foliation at 43° to core axis. Possible lapilli.									
230				231-264 Lapilli common. 232.6. qtz/ fsp rem.	231-264 Lapilli tuff. Intermediate composition. Matrix sheared similar to intermediate tuff. Lapilli are of variable size from 1/4" long axis to greater than core diameter.			234	100				

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES:

N.

E.

DATE FINISHED:

SCALE:

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY:

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
							<p>qtz fsp vein. Amphibole decreases in amount below 240. In Lapilli tuff fine grained chlor/amph is present in matrix. Lapilli are generally more felsic and do not contain amph.</p> <p>qtz fsp veining common. fsp. is cream coloured, altered.</p>									
250							<p>246-4239 (cont) Intermed tuff. Lapilli tuff between 231 and 264 lapilli are aligned along strongly developed shear foliation at 52° to C Axis. Clay/talc is also strongly developed along shear planes within lapilli tuff.</p>			244	100					
260							<p>254-260 Relatively uniformly banded Lapilli? tuff. Lapilli? sheared out along foliation at 52° to C Axis. Flecks of amph. are randomly oriented through matrix. Spec. Py. at 256.6. Rock is intermediate comp. Intense shearing and clay alteration.</p> <p>260-262.5. Darker green colour / inc. chlor.</p>			254	100					
270							<p>262.5-267 Extremely sheared altered tuff. sharp contact (262.5) at ~ 52° to C Axis.</p> <p>265.5-267. Highly altered clay rich shear zone in altered tuff.</p> <p>267-271.0. Finely foliate tuff? intermediate comp. - altered - sheared. Gray colour with minor amphibole as small flecks.</p>			260	100					
280							<p>271.2-277. Lapilli tuff. - sheared, altered with strong development of clay along shear zones/planes. Minor amphibole in matrix.</p>			267	99					
290							<p>277. 1 inch shear zone. Tot. alt. clay rich.</p> <p>277-285.8. Relatively massive intermediate tuff. - light grey flecked with minor chl/Amph. Strong shear foliation but less development of clay alteration than in more strongly sheared lapilli tuff. qtz fsp veining at 281.3 and 285 ft.</p> <p>285.8-286.5 Intermediate tuff, more mafic dk green in sharp contact with overlying tuff. Contact at 47° to C Axis.</p>			271	100					
							<p>286.8-301. Intermediate Tuff. fine grained massive light grey colour. Very minor devel of secondary amphibole! Strongly sheared at 47° to C Axis. Altered, clay etc along shear planes. Several small relatively silicious bands within this unit are also altered. 290 and 296 qtz and fsp veins.</p>			280	100					
										290	100					
										297	100					

MOLE NO. **GEARY 1**

PROJECT: **824-04**

PAGE NO: **4** OF **7**

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES:

N.

E.

DATE FINISHED:

SCALE:

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY: **USM**

SECTION	ALTERATION			FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED		
310							<p>301-305.8 Band of lapilli tuff. Lapilli of mixed comp but generally intermed. lapilli are aligned along shear foliation at 58° to C Axis.</p> <p>305.8-307.3 Fine grained, massive Int Tuff.</p> <p>307.3-330 Lapilli Tuff. similar to 301-305.8. Intermediate composition - sheared - clay alteration strong along shear planes. Rock is very soft, altered.</p>										
320							<p>312 Qtz veining.</p>										
330							<p>325-330 lapilli coarser. matrix darker green - more chl/amph rich. Strong shearing - development of clay alteration material along shear planes at 42° C Axis.</p>										
340							<p>330-335 Lapilli tuff. Finer grained matrix than 307.3-330. Smaller lapilli, highly sheared, clay rich shear zones.</p> <p>335-339. Lapilli tuff. green coloured matrix rich in chl/amph. 336.5-337.5 signif more amphibole in matrix.</p>										
350							<p>339-348 Lapilli Tuff, Intermediate Tuff. light grey, strong sheared, banded at 46° to C. Axis. Sdt - altered.</p> <p>347.2. Qtz veining.</p> <p>348-354.5. Intermediate - felsic tuff. Massive fine grained tuff, probably ash bed.</p>										
							<p>354.5-356.7 Lapilli tuff.</p> <p>356.7-364.6 Lapilli tuff? intensely sheared</p>										

124-423.9. Intermediate Tuff (cont).  
light grey - highly sheared, clay, talc rich matrix and shear zones.

HOLE NO. **GENRY 1**PROJECT: **B24-04**PAGE NO: **5** OF **7**

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES:

N.

E.

DATE FINISHED:

SCALE:

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY: 

SECTION	ALTERATION		FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED	
	Quartz/fsp	Clay.													
370						<p>Totally sheared, clay alteration.</p> <p><del>304.6-366.</del> Intermed tuff. - lapilli tuff.</p> <p><del>366-389.</del> Banded intermediate tuff. dark and light coloured bands ~ 1/2" wide. Dark bands are grey/green, finely sheared. Light bands are more felsic. qtz is unaltered but feldspar is creamy kaolinized.</p> <p><del>375-380</del> Fine shearing.</p>		Tr Py	365	99					
380						<p><del>380-387.3.</del> qtz/fsp veining.</p>			375	99					
390						<p><del>389-394.</del> Intermediate Tuff, massive grey coloured. Not strongly banded as is previous section.</p>			385	100					
400						<p><del>394</del> qtz veins to 396'.</p> <p><del>396-397.6.</del> Clayey alteration - shear zone ash/tuff is now totally altered to clay material. qtz veining</p>			395	100					
410						<p><del>397.6-423</del> Banded, sheared intermediate tuff. Light grey and dark grey bands - becoming greenish coloured bet 403-406. Feldspar in greenish coloured bands is totally altered and is cream coloured! Shearing strong at 60° to C. Axis.</p>			405	100					
									415	100					



HOLE NO. **GEARY 1**PROJECT: **B24-04**PAGE NO: **6** OF **7**.

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES:

N.

E.

DATE FINISHED:

SCALE:

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY:

SECTION	ALTERATION			FRACTURING	MINERAL GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP INT.	ESTI-MATED	
430						423-423.9. Banded tuff matrix becomes increasingly graphitic to 423.9. Pyrite dissem along fine laminae and as blebs. foliation/shearing? at 48° to C. Axis 430.5 } Pyrite in quartz veins. 431	124-423.9. Intermed Tuff. 423.9-426.5 GRAPHITIC TUFF Black with minor white qtz rich laminae. 426.5-433.8 Intermediate - felsic Tuffaceous Metavolcanic rock. Relatively massive, finely foliate at 48° to C. Axis.	Py ~1%	424	100					
						Black - pyritic ~ 1% Py haematite stain. } Relatively unshered section.	433.8-434.7. Graphitic Tuff + haematite. 434.7-438.8 Felsic-Intermediate Tuff. Relatively massive, grey-green with very weak foliation.	Py 1%	439	100		438.8			
440							438.8-447.8. GRAPHITIC TUFF black with lighter silty bands. Pyrite in hairline fractures and blebs. Py is approx 2-3% Tot.	2-3% Py.	446	100		447.8	100	Tr	
450						451.3-453 Graphitic rich matrix, interbanded with Int. tuff! haematite and pyrite at 452.3-453. 457-457.3 Graphitic. qtz veining + 5% Py	447.8-461.7 Intermediate - felsic Tuffaceous metavolcanic: Finely banded, at ~ 60° C. Axis. Relatively hard siliceous rock, little sheared and little or no development of clay alteration. Specs of py. throughout but not more than 1% Py. Small sections of matrix are black-graphitic - banded at 60° to C Axis	Tr Py.	452	100					
460							461.7-464.5. GRAPHITIC TUFF with up to 5% Py	5% Py	461	100		461.7 464.5	100	Tr.	
470						464.5-468 light grey-white colouration - may be alteration. 468 Tuff is more prominently banded - flecked with chlor, amph. 473-476 strongly banded, grey-greenish intermediate tuff. Several small bands appear to be more felsic. 476-477 Intense close spaced shears	464.5-490 Intermediate Tuff light grey/green - relatively massive but weakly banded at 60° CA		468	100					
									473	100					
									478	100					

HOLE NO. **GEARY 1**PROJECT: **824-04.**PAGE NO: **7** OF **7.**

CASING COLLAR ELEV.:

GROUND ELEV.:

DATE STARTED:

REF. TO CLAIM CORNER:

COORDINATES:

N.

E.

DATE FINISHED:

SCALE:

INCLINATION:

BEARING:

TOTAL DEPTH:

LOGGED BY::

SECTION	ALTERATION			FRACTURING	MINERAL GEOLOGY	COMMENTS:	AVE CORE REC'Y / HOLE	SULPHIDES	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y SAMP. INT.	ESTI-MATED
						482.7-483.5. Felsic ash layer - fine grained - bleached. Py flecks	484.5-490 (cont) Intermediate Tuff							
							484-490. Excellent tuffaceous texture. Massive with variety of fragments, fels-int-mafic fragments. Foliation weak at 70° to C Axis		484	100				
490						Black with silty laminae. Diss Py along laminae. Haematite in places.	490-492. GRAPHITIC TUFF (Schist)	Py 2%	492	100				
							492-493.2 INTERMEDIATE TUFF (Sch)							
						493.7 Haematite along fol and laminae + 494.6 Qtz veining. Fol at 70° to C Axis.	493.2-497.8 GRAPHITIC TUFF (Sch)	1-3% Py				493.2	100	Tr
						495.8 1/4" vein massive Py.	Black with sparse light grey silty laminae Pyritic throughout, dissem along foliation 70°		497	100		497.8		
						~5% Py. dissem.	497.8-499.3. INTERMEDIATE TUFF	5%				499.3		
500						499.6 1/4" Qtz vein.	499.3-507.5. GRAPHITIC TUFF (Sch)	2-3% Py						
						500. 1/4" Qtz with blebs of Py.	similar to preceding gph. tuff layers. Black with thin silty laminae. Pyritic throughout. Minor haematite assoc with Qtz veins.							
						-Py along foliation - 70° to C. Axis			507	100		507.5	100	Tr
						505-507. Haematite stain more common.	507.5-515. INTERMEDIATE TUFF - LAPILLI TUFF. Greenish coloured, banded - altered with 2-5% Py dissem throughout.	Py				612		
510						Feldspar fragments - altered - cream col.						515		
							515-516.2 GRAPHITIC TUFF sheared.	2-3% Py	517	100		516.2	100	Tr
						Pyritic 1-2% with haematite in hairline cracks. Minor Py + haem stain. Strong Shearing.	516.2-517.5 INTERMEDIATE TUFF sheared	1-2% Py				517.5		
							517.5-519.2 GRAPHITIC TUFF Py 1-2%	1-2% Py				519.2	100	Tr
520							519.2-533. Intermediate Tuffaceous Volcanic. Intensely sheared. rock breaks into small discs along shear planes. strong alteration clay material along shear planes. Feldspars cream coloured - altered. Kaolin?							
						528 Qtz veining. Creamy col. fsp.			525	100				
530							533 End of hole.		533	98				



PAGE NO.: 7 OF 7

CASING COLLAR ELEV.:

COORDINATES:

INCLINATION:

GROUND ELEV.:

N. E.

BEARING:

PROJECT: 824-04.

DATE STARTED:

DATE FINISHED:

TOTAL DEPTH:

HOLE NO.: 4EPICT 1

REF. TO CLAIM CORNER:

SCALE: 1:120

LOGGED BY: WSM.

DEPTH INTERVAL		CORE								DEPTH INTERVAL		SLUDGE								
FROM	TO	SAMPLE NO.	INCHES REC.	% REC.	ASSAY					FROM	TO	SAMPLE NO.	LBS. REC.	% REC.	ASSAY					
					Cu	Fe	Mn	Ni	Ti	Zn	B	Mo	Ba	Zr	V	Co.				
493.2 ↓ 1	497.8	8076	4.6	100	.005- .3%	5- 30%	.05- .3%	.005- .03%	.1- .5%		.01- .05%	Tr less than .01%	.005- .03%	.005- .03%						
499.3 ↑	507.5	8075	8.2	100	.005- .3%	5- 30%	.05- .3%	Tr less than .01%	.1- .5%		.02 -1%	.005- .3%	.01- .05%	.005- .03%	.01- .05%					
507.5 ↓ ↑	512	8077	4.5	100	.01- .05	Over 10%	.1- .5%	Tr less .01%	.2- 1%	.01-.05		Tr less than .01%	.005- .03	.01- .05		less .01				
515	516.2	8074	1.2	100	.005-.3	5-30	.01-.05	less .01	.1-.5	.01-.05	.05-.3%	less .01%	.01-.05	.005-.03	.01-.05					
517.5	519.2	8073	1.7'	100	less .01	2-10	.05-.3	less .01	.1-.5	.01-.05	.005-.3	less .01%	.01-.05	.005-.03						

T!