

1010NE0100 31 CUNNINGHAM

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## **Diamond Drilling**

Township of CUNNINGHAM

Report NO 31

Work performed by: Texasgulf Canada Limited

Claim Nº	Hole NQ	Footage	Date	Note
S 443165	CU-42-05	142.0	May/79	(1)
	CU-42-01	250.0	May/79	(1)
	CU-42-02	284.0	May/79	(1)
	CU-42-03	166.0	May/79	(1)
	CU-42-04	186.0	May/79	(1)
•	CU-42-07	251.0	May/79	(2)
	6 30.00	1579		

## Notes:

- (1) #85-79
- (2) #177-79

PR	OPERTY	Cunningham 42	PROJECT9	Tex	asgulf	CON	ITRACTOR _	Bradley Bros	START	26.5.79 FINISH 27.5.79
· H	OLE No	. <u>Cu-42-05</u> LAT.	DEP	ELEV	LOC.LO@ Itool	<u>U</u> AZ. 0	00° ANG	SLE D	EPTH 142'	CASING
FROM	<b>-</b> TO	DESCRIPTION				SAMPLE No.	FROM - TO	SAMPLE LENGTH	ASSAYS	AVERAGES AND REMARKS
0	12	CASING								
12	17.8	CHERTY IRON FORMATION	, mafic tuff?, nu	merous dark gre	en, fine grained					
		chloritic beds, some	with po, py seams	:						
		- occassional beds of	carbonated chert	y clasts		!				
		- banding (foliation)	at $65^{\circ}$ to C/A			!				:
17.8	19.2	MAFIC DYKE, fine grain	ned, dark green,	massive, silice	ous inclusions,					
		vague contacts					i			
	!									
19.2	34.5	CHERTY IRON FORMATION	. many chloritic	beds (mafic tuf	E2)					
		- seams, blebs po thro								
	ē.	- 25.3' cpy, po, minor	r py							
		- 29-31' slightly grap	phitic							
		- becoming argillaceou	us downhole							
		- 33.6' minor breccia	,carbonated							
		- banding at 55° to C	/A							
34.5	35	ARGILLITE, fine graine	ed, medium-dark g	rey	***					
	, , , , , , , , , , , , , , , , , , ,	- banding at 55° to C,	/A							7
		LOGGED BY: D. 1	Mullen DATE:_	May, 1979	PROPE	RTY Cunn	ingham 42	H	OLE No. <u>Cu-</u>	42-05 PAGE No1

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM	-10	SAMPLE LENGTH	AS	SAYS	AVERAGES AN
35	36.9	MAFIC TUFF, chert inclusions							
		36.2' - 36.7' seams, blebs po, py	a a desired and a second a second and a second a second and a second a second and a second and a second and a						
			and the second second						
36.9	39.9	INTERMEDIATE DYKE, fine to medium grained, medium grey, minor chlorite	The state of the s						
· · · · · ·		contains quartz eyes?							
<u>:9.9</u>	51.9	CHERTY IRON FORMATION, many chloritic and dark, fine grained, slightly graphitic				1			
		argillite beds, cut by carbonate veinlets, stringers	<u>.</u>						
		- minor seams, blebs po		-	:				
		45.6', 45.9' disseminated sph.	<u> </u>						
		47' banding at 60° to C/A							
		po, carbonate blebs increase towards 51.9'				9			
51.9	57	CHERT-MAGNETITE IRON FORMATION, minor stringer, disseminated po, chlorite							
		- banding at 45° to C/A				1			
						ari ari			
57	66.5	GRAPHITE-CHERT-SULPHIDE IRON FORMATION, chert interlayered with finely							
		laminated massive pyrite and graphite							
		- 57.4'-59' massive pyrite with disseminated sph, gal, minor chlorite							
		laminated 65°-70° to C/A							
		-59.2-60.2' finely laminated, massive pyrite							
		- 60.5' cpy, sph stringers with po, py and chert							
	•	LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	Cunning	ham 42	2	Н	OLE No.	tu-42-05	PAGE No2

FROM	. – TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	AŠS	SAYS	AVERAGES AND REMARKS
57	66.5	CON'T						
		61-61.9' nodular py						
		62'-62.4' massive py						
		63.5'-64.7' stringers, seams po, py with minor graphite						
		65.1'-65.3' disseminations, stringers cpy, sph						
		65.3-66 graphite						
66.5	68	MAFIC DYKE, fine grained, dark green, upper contact broken, lower contact						
		obscured by large blob py.						
68	83.3	CHERT-SULPHIDE IRON FORMATION, less chert, more chloritic than before minor						
		graphite						
		70'-71' numerous hairline seams, stringers sph in dark graphitic zone with po,						
	!	py seams, trace galena						
		72.6'-73' stringers disseminated sph, trace cpy, po, gal						
		73'-75.3' chert beds with po stingers						
		75.3' disseminated sph						
		77'-83.3' semi-massive to massive finely laminated pyrite, minor chlorite						
		disseminated sph 81.2', laminated at 80° to C/A						
83.3	85	FAULT ZONE, contorted, broken beds of laminated pyrite with stringers of sph						
		with carbonate-chlorite seams running parallel to C/A						
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERT	YCunning	gham 42	НС	DLE No	Cu-42-0	5 PAGE No3

FROM - TO	DESCRIPTION	SAMPLE No.	FROM-TO	SAMPLE LENGTH	ASS	SAYS	AVERAGES AND REMARKS
85 88.4	CHERT-SULPHIDE IRON FORMATION, minor graphite						
	- minor slips disrupt bedding						
	- finely laminated massive to semi-massive pyrite mixed with minor chert and						
	graphite laminated at $\sim$ 90 $^{\circ}$ to C/A						
	- disseminated sph at 85'						
; (	86.8'-87' stringers cby						
	87.6'-88.4' stringers, seams, disseminations of cpy, sph, po, trace galena						
88.4 96.5	CHERTY IRON FORMATION, minor graphite and chlorite beds with seams po, py						
	- cut by numerous stringers by, bo						
	93' disseminated sph.						
		:	<u> </u>				
96.5 115.5	CHERT-MAGNETITE IRON FORMATION, minor po blebs, seams						
:	107.5' po stringers						
	- banding at 80°-90° to C/A	-					
115.5 121.6	GRAPHITE-CHERT IRON FORMATION,						
	- stringers, seams disseminations py, sph, cpy, trace galena throughout						
	- banding at 80° to C/A						
121.6 142	CHERT-MAGNETITE IRON FORMATION, occassional chlorite seam						
	- cut by odd po stringer, green alteration throughout						
	LOGGED BY: D. Mullen DATE: May, 1979 PROPER	TY <u>Cunnin</u>	gham 42	H	OLE No.C	1-42-05	PAGE No4

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FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE L	AS	SAYS	AVERAGES AN REMARKS
21.6 142	CON'T						
	128.4' disseminated sph						
	136.6' black aphanitic chert filling a void(?)						
	- light to dark spotted chert						
	140' banding at 85° to C/A						
!					1		
42	END OF HOLE						
	C OS						
		3					
•							
4							
· · · · · · · · · · · · · · · · · · ·							
	LOGGED BY: D. Mullen DATE: May, 1979 PROPER	RTYCunning	1 12		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>	5 PAGE No5_

ļ		Y Cunningham 42 PROJECT 993 Texasguif						/5/79 FINISH 19/5/79
Н	OLE N	o. <u>Cu-42-01</u> LAT DEP ELEV LOC. <u>L3W. 1+50N</u>	<del></del>	<del></del>	· · · · · · · · · · · · · · · · · · ·			
FROM	- TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	ASS	SAYS	AVERAGES AND REMARKS
0	6	CASING						
6	17.5	FELDSPAR PORPHYRY, euhedral to anhedral white, cream to light pink feldspar phenocrysts up to 3mm, set in a blue-grey fine grained matrix, carbonate						
		and chlorite on fractures, occassional quartz eye			de de la constante de la const			
		- 10.4 - 10.7, 16.4 - 16.5 - chloritic inclusion	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100			
	-	- possible breccia at 12'						· · · · · · · · · · · · · · · · · · ·
		- disseminated sphalerite at 12.2'				The second secon		
17.5	27.2	MAFIC TUFF(?), dark green, very chloritic, carbonated foliation at 70° to	er e					
		C/A, cut by several carbonate stringers, veinlets with minor pyrite.						
		sphalerite 18.2' to 18.4 feet - narrow seams and blebs of sphalerite, galena						
		chalcopyrite, pyrite (cpy rimmed by gal rimmed by sph)						
		19' - 27' disseminated pyrrhotite						
		23.5 - 26.5' blebs and seams po						
27.2	29.5	CHERT FRAGMENTAL, similar to above but with chert fragments intermixed				3		
		with chloritic material blebs, minor seams py, trace po.						
		LOGGED BY: D. Mullen DATE: May 1979 PROPER	RTY <u>Cunni</u>	ingham 42		HOLE No	. Cu=42=	01 PAGE No

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	AS	SAYS	AVERAGES AL REMARKS
29.5 33.	MAFIC TUFF(?), as above, chlorite, carb, minor sphalerite						
	30 - 31.5' - 15% sulphide, seams, stringers of cpy, sph, gal, py, po seams ru	1	<u> </u>				
	at 65° to C/A.						
33.8 36.	MAFIC TUFF (?), more siliceous, less carbonate, still chloritic			•			
	33.8' - narrow pyrite seam, minor graphite				_		
	sph, py stringers at 34.5', 35.2', 35.8'						
	faint foliation at 75° to C/A.	-					
36.2 52.3	CHERT FRAGMENTAL, minor chert - mag IF - 37.1 - 38.1', grey-white angular chert						
	blocks to 10cm set in a dark green foliated chloritic matrix, foliation at 450 -						
	65° to C/A.						
	- chert blocks are slightly carbonated						
	- section cut by numerous carbonate veinlets and stringers						
	*- disseminations, stringers and seams of sph, gal, cpy, po, py in chloritic						
	matrix throughout section.						
	- sph, gal, cpy in occassional carbonate veinlet						
	45.5' - 46.5' - po rich section with minor cpy						
	coarsely crystalline galena at 47.2'	_					
	- estimated 15% sulphides in section at least 5 cpy, sph, gal						
	LOGGED BY: D. Mullen DATE: May, 1979 PROPERT	YCunnin	gham 42		OLE No.	Su-42-01	PAGE No2

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	AS:	SAYS	AVERAGES AND
52 3 57	MASSIVE SULPHIDES. 50% - 100% of finely laminated pyrite, chalcopyrite,	1		LEINOTT			
	sphalerite, minor galena						
	- one section (56.3' to 57') 70% cpy 20% sph 2% gal						
	laminations at 60° to C/A.						
	- minor carbonate and chlorite						
	- carbonate veins contain sphalerite						
	- cross-cutting fractures also contain stringers cpy, sph.						
57 69	CHERT FRAGMENTAL, as before but appears not as broken up, more bedded						
	appearance, cut by many carbonate stringers						
	- less chlorite in matrix, more siliceous, carbonated						
	- a few seams of magnetite						
	- up to 10% sulphides in matrix - coarse grained galena at 57.8 with cpy, sph.						
	- disseminated, stringers and narrow seams of cpy, sph, po, py throughout						
	section						
	- minor graphitic zones at 67', 68 feet.						
69 69.9	GRAPHITIC ZONE, finely laminated at 60° to C/A				-		
09.9	disseminated pyrite throughout						
	- 69.8 - carbonate stringer with sph. gal.						
	LOGGED BY: D. Mullen DATE: May, 1979 PROPERT	Y_Cunning	gham 42	НОІ	LE No	<u> 1u-42-0</u>	PAGE No. 3

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE	A:	SSAYS	AVERAGES AND
69.9 72	CHERTY FRAGMENTAL with graphitic matrix, minor carbonate stringers of po, py,		1			<del></del>	
	surrounding chert fragments.						
72 75	MAFIC TUFF (?) dark green, chloritic, carbonated, blebs of po disseminated						
	po, py faint foliation at 65° to C/A.	-		-			
75 80	MASSIVE TO SEMI-MASSIVE SULPHIDE, finely laminated pyrite with minor sphalerite						
	and chlorite, laminated at 75° to C/A disseminated sphalerite at 75.2 feet,						
	chert lens - with pyrite stringers 78' - 78.5'						
80 85	GRAPHITIC ZONE, interbedded finely laminated graphite and pyrite with minor						
	chlorite, minor sph with py at 80 feet						
	- laminations at 70° - 80° to C/A						
	- minor carbonate stringers with sph.						
85 105.	5 CHERT-MAGNETITE IRON FORMATION, interbedded light-dark grey chert with thinner						
	seams magnetite, minor graphite						
	- beds are from paper thin to 10cm, bedding at 70° to C/A disseminations.						
	narrow aeams and stringers of sph, cpy, gal, py, po throughout section						
	- greenish alteration around magnetite beds and throughout chert layers - grunerite?						-
	LOGGED BY: D_Mullen DATE: May 1979 PROPERTY	Cunning	ham 42		HOLE No.	<u>CU-42-01</u>	PAGE No4

FROM	<b>– TO</b>	DESCRIPTION	SAMPLE No.	FROM	-10	SAMPLE LENGTH		ASS	AYS		AVERAGES REMA	
35	105.5	CON'T	,,,,,,									
		- sulphide seams decrease downhole becoming more disseminated										
		- cut by numerous carbonate veinlets										
105.5	117.8	CHERT-GRAPHITE ZONE - little to no magnetite				•						
		- appears fragmental at 112'										
		- small slips at 112.6', 114.6'					: 41					,
		- sulphides throughout section, finely laminated sphalerite po, py minor cpy,										
		gal, laminations at 50° - 60° to C/A.									· · · · · · · · · · · · · · · · · · ·	
		- contorted at 111'										·······
		- section cut by many carbonate stringers.										· · · · · · · · · · · · · · · · · · ·
117.8	118.7	CHERT-MAGNETITE IRON FORMATION, gradational contact with above unit, carbonate										,
		stringers										
		sphalerite seams near 118.7'.					-14 448					
118.7	119	POSSIBLE FAULT, large carbonate vein with chlorite, sph trace gal, cpy			-							
		- N.B. sphalerite in carb vein is a darker red than the lighter brown sphalerite										
		in iron formation adjacent to the vein										
		- carbonate vein cuts bedding at 60°										
					-							
·		LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY		nam 42	l	<b>-</b>	HOLE N	No.Cu	-42-0	01 PA(	 GE No	5

FROM	- TO	DESCRIPTION	SAMPLE No.	FROM-TO	SAMPLE L	ASSAYS		AVERAGES AND REMARKS
119	126.2	CHERT-MAGNETITE IRON FORMATION, minor graphite initially with disseminations	140.	<del>                                     </del>	ELINOITI			NC/WARAGO
113	120.2	and stringers of sph, trace cpy, magnetite appears at 120'					1	
		- banding at 60° to C/A						
		- magnetite bands from 1 to 5cm thick, white chert beds are generally thicker						
		up to 15cm						
		- occassional pyrite around magnetite bands						
		- minor py, sph at 126'						
126.2	127.6	MAFIC DYKE, medium green, fine grained, upper contact broken, lower contact at						
		∼15 <sup>0</sup> to C/A, carbonated						
127.6	127.7	CHERTY IRON FORMATION, minor pyrite						
127.7	130	MAFIC DYKE, as before, upper contact at $\sim 20^{\circ}$ , lower contact broken.			· .			
130	136.5	GRAPHITE-CHERT IRON FORMATION, graphite beds contain disseminated to slightly nodular pyrite, occassional thin seam of pyrrhotite						
		- bedding at approximately 60° to C/A						
		odd stringer, seam of sph, cpy, po, py						
		- galena, sphalerite forming matrix of graphitic breccia at 135.8'						
								•
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERT	YCunnir	igham 42	H(	OLE Noci	1-42-01	PAGE No6

FROM -	- TO	DESCRIPTION	SAMPLE No.	FROM	(-TO	SAMPLE LENGTH		ASS	AYS	AVERAGE:	
136.5	145.5	CHERT-MAGNETITE IRON FORMATION, gradational contact					-				
		- banding at 53° to C/A									
		- po, py seam at 138.4' with minor graphite									
		- disseminated po throughout usually associated with magnetite bands				· · · · · · · · · · · · · · · · · · ·					·
		- still green alteration around magnetite (Grunerite?)									
		- disseminations and stringers of sph 144.9' - 145.2'									
L45.5	147.2	FELDSPAR PORPHYRY, greenish, altered - limonite staining					,				
		minor graphite, subhedral to anhedral feldspar phenocrysts average 1.5mm									
		- contacts are nebulous, upper one at $\sim 30^{\circ}$ ?									_
		lower contact from 0° to 50°									
47.2	150.7	GRAPHITE-CHERT IRON FORMATION, narrow seams of py, po associated with graphite									
		banding at $70^{\circ}$ - $80^{\circ}$ to C/A									
		- chert bands occasionally cut by stringers of po,py									
		- sph, gal at 149.2'									
		- magnetite appears at 150'									
50.7	152	CHERT-MAGNETITE IRON FORMATION, some disseminated py, po, trace sph									
		- pyrite lined carbonate stringer at 151.2', minor chlorite slips									
	i	LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	Y_Cunnin	gham_	42		OLE N	۷٥. ت	1-42-0	PAGE No	7

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM -TO	SAMPLE LENGTH	A	SSAYS	AVERAGES AN REMARKS
152	152.6	MAFIC DYKE(?) py, sph at contacts, dark green, fine grained minor carbonate,						
		upper and lower contacts at ∼70°						
152.6	187.4	CHERT-MAGNETITE IRON FORMATION, relatively light to dark grey chert bands,						
		chert taking on a definite spotted appearance with banding (elongation of spots)			•			
		at 70° to C/A						
		- disseminated po, py associated with magnetite po,py rich at 160.8', py band						
		at 166.6, band at 167'	1				_	
		- more chert downhole						
		- disseminated sphalerite 168'-169'			1			
		170.5' - carbonate veinlet with cpy, sph, gal, po, py		and the second				
		170 - bands at 65° to C/A						
		174 - po seams						
		176.1-176.3 - po.py, sph. trace cpy with narrow graphitic zone						
		180.9 - sph stringer						
		185 banding at 70° to C/A					-	
.87.4	191.2	GRAPHITE-CHERT IRON FORMATION, chert very fractured hairline fractures filled						
		with carbonate						
. ,		- large contorted carbonate vein at 187.7 - 188.1 cutting graphitic section						
		with minor sph, gal, cpy						
		- sph in laminated graphite at 188.6'						
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	Cunningh	am 42		HOLE No	. <u>Cu-42-0</u>	1 PAGE No8

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FROM - TO	DESCRIPTION	SAMPLE	FROM - TO	SAMPLE	AS	SAYS	AVERAGES AN REMARKS
187.4 191.2	covid	140.		LENGIN			REMARKS
.67.4 1191.2	189' - 189.5 - sph, trace po, with chert						
	190 - banding at 45°, trace sph at 190.1'						
.91.2 250	CHERT-MAGNETITE IRON FORMATION, minor graphitic interbeds						
	- possible fault at 193.5', carbonate rich disseminated sph bands at 194.7, 195.1', 195.8',						
	196.2' - sph band with trace cpy, py						
	200' - banding at $60^{\circ}$ to C/A - ACID TEST - Corrected						
	204' - possible fault at ~15° to C/A						
	210' - banding from $50^{\circ}$ - $60^{\circ}$ to C/A						
	- chert brecciated at 210.8', 213.3', 216'-217'						
	- disseminated and seams of py, po, 213.6-214.6, 215.8-217'						
	- graphitic zone with pyrite 219.4'-220.3', 221.9'-222.2'						
	- 222.5' - banding at $50^{\circ}$ to C/A						
	223.2' - 223.7' - slightly graphitic, dark green mafic tuff?						
	po at contact with dark chert						
	226.1' - 226.4' - graphitic seams with po, trace py, cpy						
	229' - minor brecciated section with carbonate veining trace py, cpy						
	230' - carbonate veinlets with trace py, cpy						
	232.3' - trace sph, gal with magnetite band						
	232.8' - banding at 55 <sup>0</sup>						
	LOGGED BY: D. Mullen DATE: May 1979 PROP	ERTY _Cunning	ham 42	НС	DLE No. S	U-42-01	PAGE No9

DOM TO	DESCRIPTION	SAMPLE	EDOM: TO	SAMPLE	A	SSAYS	AVERAGES AND REMARKS
ROM - TO	DESCRIPTION	No.	FROM-TO	LENGTH			REMARKS
250	CON't						
	narrow fragmental zones at 234.8', 239.6' and 242.6'						
	242' - banding at 40° to C/A						
	245' - banding at 50° to C/A						
	appears brecciated 246' - 250'						
	qtz veins from 248.6' to 250'				44		
	Things only by no one 2481 2491						
	- minor spin, py, po, cpy, 248 -249						
	END OF HOLE - 250 FEET						
					~ -		

P	ROPERTY		_ Texa	asgulf	AZOC	0	ANG	LE_70° at -73° at	CO) 1 7 H 200 (CO	284' rrected)	/5/79 FINISH 22/5 CASING6'	
FROM		DESCRIPTION			SAMPLE No.	FROM	-TO	SAMPLE LENGTH	AS	SAYS	AVERAGES REMARK	AND
0	6	CASING										
	1.2	MAFIC TUFF(2), dark green, massive, fine	arrined					· · · · · · · · · · · · · · · · · · ·				
		elongate blebs of pyrite parallel to foli	•	attered throughout								
		- up to 5mm in diameter, associated with	carbonate									
		- some carbonate stringers at shallow ang	le to core axis									
13	13.8	SILICEOUS FRAGMENTAL (?), carbonate rich,	vague contacts	(cooked up chert?)								
13.8	14.7	MAFIC TUFF (?), dark green, fine grained,	some pyrite									
14.7	16.2	SILICEOUS FRAGMENTAL (?), vague contacts,	dark grey, fin	e grained, cooked								-
		up chert?										
16.2	26.2	MAFIC TUFF (?), fairly massive, cut by se	veral carbonate	veinlets 18'								
		- minor mafic dyke(?) at shallow angle to	core axis									
		- disseminated sphalerite, galena, pyrite	at 19', 21-22',									
		- with carbonate veinlets at 22.6' - 23',	23.5'	· · · · · · · · · · · · · · · · · · ·								
		- banding becomes more prominent downhole	at 25' at 55 <sup>0</sup>	to C/A			_					
		LOGGED BY: D. Mullen DATE:	May, 1979	PROPER	RTY Cunn	inghar	n 42		HOLE N	lo. <u>Cu-42</u>	-02 PAGE No1	L

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM -T	SAMPLE LENGTH	1	ASSAYS	AVERAGES AND REMARKS
26.2.	28_5	CHERTY FRAGMENTAL, chert beds becoming intermixed with chloritic beds, some						
		beds are brecciated						
		- more sulphides disseminated throughout, also seams stringers of sphalerite,						
<u> </u>		minor chalcopyrite, galena, pyrrhotite and pyrite			-			
28.5	30.1	MAFIC DYKE (?) granular looking, fine grained, minor carbonate, vague contacts,						
		appears slightly banded, medium-dark grey-green						
30.1	34.4	CHLORITIC TUFFS with Chert and Sulphides,						
		- banding at 32' at 55° to C/A						
		- sph, gal, cpy, py 31.8-32.4, 33.2-34'			_			
34.4	35.8	MAFIC DYKE (?) as above						
35.8	37.2	GRAPHITIC ZONE, with sph., minor cpy, galena						
37.2	39.9	MAFIC DYKE (?) as before						
39.9	40.5	CHLORITE-CHERT ZONE with sph., py, and po.						
40.5	41	MAFIC DYKE (?) as above						•
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	Cunning	nam 42		HOLE N	to. CU-72-	<sup>D2</sup> PAGE No2

FROM	- TO	DESCRIPTION	SAMPLE No.	FROM - T	O SAMPLE LENGTH	4	ASSAYS	AVERAGES AND REMARKS
41	41.3	CHLORITE CHERT ZONE, po, py, trace sph						
41.3	42.2	MAFIC DYKE(?) as before						
42.2	44	CHERTY FRAGMENTAL, with disseminated sulphides						
		42.2 - 42.3', sph.						
		disseminated po, py, trace cpy, sph throughout chloritic matrix						
44	45.5	CHERT MAGNETITE IRON FORMATION, thick chert beds with thinner (up to 2cm)						
		magnetite bands, trace pyrrhotite.				Ī		
45.5	55	CHERT FRAGMENTAL, coarse, up to 3cm subangular blocks of chert set in a chloriti						
		matrix with disseminated po, py, blebs and minor sph.						
		- fragments becoming smaller and less abundant downhole tops? downhole, sulphides mainly pyrite, increases						
		- abundant sph with pyrite at 52.5' - 53'						
		- banding at 50° to C/A						
55	55.7	MASSIVE PYRITE, with po. (fairly massive)			-			
55.7	62.0	CHERT FRAGMENTAL with thin interbeds of sulphide and minor magnetite bands						
		56' disseminated sph, py						
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	_Cunning	ham 42		HOLE N	o. Cu=42=0	2 PAGE No3

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM	-TO	SAMPLE LENGTH		ASSAYS	AVERAGES AN REMARKS
55.7	62.0	CON'T	1 10	1 1	<u> </u>				
<u> </u>									
		57.3' disseminated sph		++					
······································		58.5' disseminated po, py		+					
		61-61.6 Stringers disseminations of py, po, sph.		1					
		62' stringer sph.				<u> </u>			
62.0	62.5	FAIRLY MASSIVE PYRRHOTITE - faint banding at 75° to C/A							
62.5	70.5	CHERT FRAGMENTAL, with very minor magnetite and some graphitic zones, numerous							
·		stringers and occassionally seams sulphide							
		62.6-65.5' stringers sph, py, po							
		67.2-69' disseminated patches of sph. gal. py. stringers of sph. narrow							
		seams po		-					
		- cut by occassional carbonate veinlets.							
70.5	71	FAIRLY MASSIVE PYRRHOTITE, a few small chert fragments scattered throughout it,							
		stringers of sph, gal.							
71	77.5	CHERT FRAGMENTAL, very siliceous, with up to 20% sulphides in matrix cut by							
		carbonate veinlets, some carrying minor gal, sph, cpy, sulphides in matrix							
		surround chert clasts							
		- clasts are light to dark grey							
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	_Cunning	bam 42	2	F	HOLE N	o. <u>Cu-42</u>	-02 PAGE No4

FROM	– TO	DESCRIPTION	SAMPLE No.	FROM -	-то	SAMPLE LENGTH	AS	SAYS	AVERAGES REMAR	AND
71	77.5	CON'T								
		-71-74.5', disseminationsm seams and stringers of cpy, sph, po, two types of								
		sphalerite at 74.3' - dark reddish brown, honey coloured								
		-76.3 - 77.5', minor po, py, trace sph.								
		nodular? pyrite at contact at 77.5'				•				
		foliated at 45° to C/A								
77 <sub>-</sub> 5	82.2	FELDSPAR PORPHYRY DYKE, medium grey, subhedral to anhedral feldspar phenocrysts								
	33.2	up to 2mm in diameter								
	-	- not as porphyritic as previously noted dykes								
		- upper contact at 65° 50 C/A, lower contact broken								<u>-</u> .
		- cut by stringers of pyrite								
82.2	94	CHERT FRAGMENTAL with 25% sulphide matrix, some graphite								
		- 82.3' - quartz vein with cpy, py, sph.								
		- 82.3-84.8' sph, cpy, minor py, trace gal surrounding chert clasts								
		- 84.8 - 92.5' disseminated sph, po throughout section								
		- 92.5 - 94 py, po, sph seams, disseminations, and stringers cp to 10% trace gal								
94	94.3	MAFIC DYKE, dark green, fine grained, broken contacts, chloritic possibly								<del></del>
		contain minor specular hematite(?)								
<u> </u>		LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	Cunning	gham 42	2	HO!	E No	u-42-02	PAGE No	5

FROM	1 - TO	DESCRIPTION	SAMPLE No.	FROM-TO	SAMPLE LENGTH	AS	SAYS	AVERAGES AND REMARKS
94.3	95.8	CHERT FRAGMENTAL, initially with graphite zone with sph, gal stringers, blebs						
		py, narrow seams of sph, disseminated cpy at 95.7'						
95.8	96.7	MAFIC DYKE, as before, cut by occassional carbonate veinlet, contacts are vague						
		but appear to be at $\sim 55^\circ$ to C/A						
96.7	98.7	CHERT FRAGMENTAL, with disseminated sph, po throughout						
98.7	100	GRAPHITE ZONE, with seams of po, py, trace sph						
		- banding at 55° to C/A						
100	100.5	MAFIC DYKE, as before, slightly quartz porphyritic						
		contacts at ~55° to C/A						
100.5	102.2	CHERTY IRON FORMATION, finely banded chert beds with minor graphite, disseminated	d					
		ро						
		- 102' carbonate zone with narrow seams of sph, gal, minor cpy						
		- banding at 47° to C/A						
102.2	127	CHERT MAGNETITE IRON FORMATION						
		- light to dark grey chert bands interbedded with thinner magnetite bands,						
		magnetite bands often have po and py associated with them						
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	Y <u>Cunning</u>	nham 42	!	HOLE No	Cu-42-0	2 PAGE No6_

FROM - TO	DESCRIPTION	SAMPLE	FROM - T	O SAMPLE LENGTH		ASSAYS	AVERAGES ANI
KOM 10	DESCRIPTION	No.	T	LENGTH	<u> </u>		REMARKS
102.2 107	CON'T						
	- also green alteration surrounding magnetite bands (grunerite?)						
	107.5' carbonate veinlet with cpy, trace py, po			_			_
	108.7' carbonate veinlet with disseminated sph						
	carbonate veinlets up to lcm wide						
	120' banding at 50°						
	- massive, slightly laminated, and light and dark spotted chert beds	! 					
	- becoming darker downhole, more graphite						
127 150.7	GRAPHITE-CHERT IRON FORMATION, little magnetite, very dark numerous graphitic						
	slips, zones						
_	- 127.9' graphite with sphalerite seam. stringers of sph. gal						
	-po, py, cpy stringers at 130', 131.2'						
	-130' banding at 55°						
	- 132.5' large bleb of sulphide, py, cpy, sph, cut by stringers of sph, gal, cpy						
	- pyrite coats many bedding plane slips						
	- sphalerite stringers at 134', 134.8', 136.2'						
	- sph seams with graphite at 137.9'						
	- 145.5' trace cpy with po.						
	- disseminateions, seams py, sph, cpy, po, 148-150.5' (15% sulphide)						
	- 150' banding at 45° to 50°						
	LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	Cunningh	am 42		HOLE N	lo. Cu-42-0	PAGE No

FROM - TO	DESCRIPTION	SAMPLE No.	FROM-	SAMPLE		SSAYS	AVERAGES AT REMARKS
150.7 177.6	CHERT MAGNETITE IRON FORMATION, light to dark chert with thinner beds of magneti						
	up to 3cm thick						
	- magnetite often has disseminated po throughout						
	160' banding at 60° to C/A						
	170' banding at 55° to C/A			•			
	- increase in po from 170'-177.6'						
	trace sph at 175.6' with carbonate veinlet						
						,	
77.6 180.5	CHERTY IRON FORMATION, somewhat brecciated, abundant sulphides in seams up to			-			
	7cm wide, mainly po but with disseminations, stringers cpy, sph, minor py						
	- 180' banding at 60° to C/A						
80.5 181.1	FELDSPAR PORPHYRY DYKE, occassional quartz eye						
	- cut by carbonate veinlet with sph.						
	- upper contact at 20°, lower contact at 55°.						
81.1 182	CHERTY IRON FORMATION, with seams po, stringers py, sph, trace galena.						
182.5	FELDSPAR PORPHYRY, as above, upper contact irregular, lower contact at 50°						
82.5 183	CHERTY IRON FORMATION, with stringers py, sph, disseminated sph.						•
	LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	Cunning	nam 42		HOLE No	Cu-42-0	<sup>2</sup> PAGE No8

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE	FROM	-TO	SAMPLE		ASS	AYS	AVERAGE	S AND
	T		No.	1		LENGTH	1			REMA	ARKS
183	183.9	BRECCIATED CHERTY IRON FORMATION AND FELDSPAR PORPHYRY									
		- porphyry runs almost parallel to core axis									
		- iron formation contains sph stringers			••••						
183.9	194.5	FELDSPAR PORPHYRY, medium grey, quite porphyritic	<b>1</b>		<del>, .</del> .,						
		subhedral to anhedral feldspars up to 3mm, irregular lower contact at ~55 C/A									· <del></del>
194.5	197	CHERTY IRON FORMATION, with dusting of sphalerite									
	1	- stringers of po, py	<u> </u>								
		195.5' sph in carbonate veinlet									
	!	196.9' seams of py	t 								
										·	
197	201.9	CHERT-MAGNETITE IRON FORMATION									
		minor po associated with magnetite									
<u>.</u> =		199' banding at 75° to C/A									
201.9	209.1	CHERTY IRON FORMATION, with minor seams of sulphide									
		- 201.9 - 202' sph. cpy	ļ								
		- 202.2'-202.7' seams, disseminations of py, sph, cpy									· · · · · · · · · · · · · · · · · · ·
		203'-204.2' seams stringers sph, gal, cpy, po									
		205' sph, gal, seams with graphite									
		207'-208.2' sph patch cut by 2cm carbonate stringer with cpy at 208'	ì								
		LOGGED BY:_D. Mullen DATE: May 1979 PROPERTY	Y <u>Cunning</u> l	nam 42		Н	OLE N	10. C	u-42-	02 PAGE No	9

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	ASSAYS		AVERAGES AN
201.9 209.1	CON'T						
	208.4' po seam						
	208.5' py seam with chlorite						
209.1 218.6	CHERT MAGNETITE IRON FORMATION, minor sulphides, chlorite seams						
	- minor seams po, py some associated with magnetite bands	_					
	210.8' fault with sph, cpy, po, chl.	_					
1	217.9' pinkish quartz-carbonate vein	:					
218.6 222.5	MAFIC DYKE, fine grained, dark green, massive, minor carbonate chill at upper						
	contact at $\sim 40^{\circ}$ to C/A, lower contact broken						
222.5 229.3	CHERT-MAGNETITE IRON FORMATION, minor chlorite seams up to 4cm wide often						
	containing banded pyrite						
	- po disseminated in magnetite bands						
	226.6 - 227.1 disseminated sph in chert and carbonate veinlets						
	228' banding at 45° to C/A						
	- carbonate veinlets appear to be thicker						
229.3 233.8	CHERTY IRON FORMATION, with chlorite seams, little magnetite						
	- brecciated from 232'-233'						
	- stringers, disseminations, seams sph, po, py, trace cpy 229.5-231.8'						
	LOGGED BY: D. Mullen DATE: May, 1979 PROPER	RTY <u>Cunning</u>	nam 42	Н	OLE No	<u>Cu-42-0</u> 2	PAGE No. 10

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FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM	-10	SAMPLE LENGTH		ASS/	NYS	AVERAGES REMA	
233 B	239 1	CHERT-MAGNETITE IRON FORMATION, much pervasive green alteration (grunerite?),		1		20.00					
233.0	233.1	trace disseminated sph, minor po, py with magnetite									
				1		<u>.</u> .					<u> </u>
239.1	240	CHERTY IRON FORMATION, with chlorite seams, chert at 240' looks granular,									
		"cooked up"				. •					
		- seams, stringers and disseminations of sph, py			and the second						
		- minor carbonate veinlets									
		- 239.2' banding at $60^{\circ}$ to C/A									·
240	257.2	QUARTZ-FELDSPAR PORPHYRY, chlorite spots at contact	:								
		- vaguely porphyritic, much carbonate alteration, light grey,									
		- upper contact at 65°, vague lower contact at 145°									
		- somewhat banded at 256'									······································
257.2	267	CHERTY IRON FORMATION, minor graphite which increases downhole, chert much									
		darker and appears more foliated									
		- interbedded with medium greenish-grey to dark buff coloured, thick to thin									
		granular - "oolitic Looking" mafic units									
		- 263' podular pyrite in graphite									
		- 266-267' sph, py stringers					·				
											•
		LOGGED BY: D. Mullen DATE: May, 1979 PROPER	TY Cunning						42-02	PAGE No	11

FROM	1 – TO	DESCRIPTION	SAMPLE No.	FROM-	TO SAMPLE LENGTH	ASSAYS	AVERAGES AND REMARKS
267	268	MAFIC DYKE(?) fine grained, grey-green, broken contacts					
268	276	GRAPHITIC CHERTY IRON FORMATION					
·		- 269.5 - 270', recrystallized nodular pyrite with graphite					
		- trace sph at 271-271.6', 272.8'			·		
<del> </del>		- disseminated py throughout, occassional py seams with graphite.					
76	284	QUARTZ PORPHYRY, minor feldspar, light grey, massive					
		- numerous gtz eyes up to 3mm near contact					
84		END OF HOLE					
		Jest S					
		Jacob					
	To a contract of the contract						
		LOGGED BY: D. Mullen DATE: May, 1979 PROF	PERTY Cunning	ham 42		HOLE No.Cu-42-	02 PAGE No. 12

PF H	ROPERTY OLE No	Y Cunningham 42 PROJECT 988 Texasgulf  O. Cu-79-03 LAT. DEP. ELEV. LOC. 1+45 W	CON	TRACTOR .	Bradley :	Bros. ST lar	ART <u>23/5,</u> / <u>66</u> c	/79 FINISH 24/5/79 ASING2'
FROM		DESCRIPTION			SAMPLE LENGTH	ASS	AYS	AVERAGES AND REMARKS
0	2	CASING				;		
2	4.5	CHERT FRAGMENTAL, chloritic matrix, dark green, broken core, minor po, py						
4.5	6	MAFIC DYKE? dark green, fine grained, broken contacts						
6	13	CHERT FRAGMENTAL, chloritic matrix, dark green						
		- some chert beds (not clasts)				E - E - E - E - E - E - E - E - E - E -		
		- foliated at 60° to C/A						
		- 10', trace sph, po, cubes py, occassional py stringer		0.00			:	
13	23	CHERTY IRON FORMATION, interbedded chert and chlorite bands with much po.						
		- occassional chert fragment in chlorite band						
		- 14.8' - 15', sph. galena, py seams						
		seams of po with minor cpy, sph, py, 16.2-17', 17.5-18', 18.5-20', 21-21.5'						
23	38	CHERT FRAGMENTAL, as before, chlorite matrix, subangular chert clasts up to						
-10-40-4		5cm						
		LOGGED BY: D. Mullen DATE: May, 1979 PROPER	Cummin	gham 42		HOLE No.	Cu-42-03	<sup>3</sup> PAGE No1

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM-TO	SAMPLE LENGTH	AS	SAYS	AVERAGES A REMARKS	ND
23	38	CON'T					İ		
		- very fractured chert bed from 24'-24.5'							
		- sulphides throughout section, mainly po but with minor disseminated cpy							
		- some pyrite seams, stringers	1			- Li communica de la communicación de la commu			
		- disseminated sph at 25.4', 26', 28'	and of the second						
		- stringers of sph at 30.8' with carbonate vein							
		- appears to be an increase in carbonate veining downhole							
		- 32.5' - 38' disseminated and stringer sph, minor gal, cpy	:						
		32' banding at 50° to C/A					<del>                                     </del>		
		32 Sanding at 30 to C/A							·
38	39.8	CHERT MAGNETITE IRON FORMATION, minor disseminated po throughout magnetite				3 3 2 4			
		bands, seams chlorite							
39.8	40.6	MAFIC DYKE, fine grained, dark green, broken contacts	:						
							-		
40.6	42	CHERT FRAGMENTAL, as before, stringers, disseminations, seams sph. po. gal							
		stringers of cpy							
42	45.7	FAIRLY MASSIVE SULPHIDES, minor chert bands, seams of sph. gal. cpy, po, py,							
47	4-1-1	in chloritic matrix, 65% sulphides							
45.7	47	CHERTY IRON FORMATION, with minor stringers of po, py, sph, cpy throughout							
<del></del>	<b>__</b>	LOGGED BY: D. Mullen DATE: May, 1979 PROPERT	Y Cunning	ham 42	НО	DLE No	C-42-03	PAGE No. 2	· · ·

FROM	1 – TO	DESCRIPTION	SAMPLE No.	FROM -		SAMPLE		ASS	AYS	AVERAG	ES ANI MARKS
45.7	47	CON'T									
		- minor chlorite									
47	48.3	MAFIC DYKE, fine grained dark green, chloritic, massive, broken contacts				-					
48.3	49.6	FAIRLY MASSIVE SULPHIDES with chloritic seams,									
	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- mainly po with minor py, sph		ļ				! ! <del>!</del>			······································
		- py cubes at contact with mafic dyke									
49.6	51.4	CHERTY IRON FORMATION, disseminations and stringers of po, sph, py, throughout									,
		section, initially brecciated									
51.4	57.3	INTERBEDDED MASSIVE PYRITE, GRAPHITE-CHERT IRON FORMATION									
		- massive pyrite occurs in finely laminated bands from 2 to 10cm									
		thick with minor cpy, sph									
<del></del> ;		- laminations at 75° to C/A									
,		- graphite beds contain stringers and seams py, sph, gal and nodular py									
		- cut by occassional carbonate stringer with sph, py									
57.3	58.4	MAFIC DYKE, fine grained, dark green, cut by carbonate veinlets									
·		- upper contact at ~35°, lower contact broken									•
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERT	Y Cunning	ham 4	2		HOLE	No. <u>C</u> 1	u-42-03	PAGE No	3

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE	A	SSAYS	AVERAGES AT REMARKS
- <del></del>			140.	<del> </del>	LENGIN		<del>-    </del>	REMARKS
58.4	58.8	CHERT FRAGMENTAL, with massive po band						
58.8	61	MAFIC DYKE, as before, upper and lower contact are broken						
51	65.6	CHERT FRAGMENTAL, angular chert fragments cut by stringers of po, py, minor sph,						
···- ···· · · · · · · · · · · · · · · ·		cpy set in a chloritic matrix						
		- minor magnetite at 64.5'						
55.6	77	CHERT-SULPHIDE IRON FORMATION, with many chloritic interbeds						
		- chert is fairly massive, occassionally brecciated, cut by stringers of po.py					_	
1		- sulphides mainly po with py, trace cpy, chloritic matrix						
	-	76' - banding at 60° to C/A						
		76'-77', fairly massive po						
77	86.6	CHERT-MAGNETITE IRON FORMATION, initial 2.5' with stringers of po, py, trace sph						
· · · · · · · · · · · · · · · · · · ·		cutting very massive chert						
		- becoming interlayered with the magnetite bands with disseminated po						
		- chert has disseminated pyrite blebs throughout						
36.6	96	CHERT-SULPHIDE IRON FORMATION - chert bands interlayered with sulphide-rich						
		chloritic bands						
· · · ·		88' - 88.5' massive po with trace cpy, py						
		LOGGED BY: D. Mullen DATE: May, 1979. PROPERTY	Cunning	nam 42		HOLE No.	<u>Cu-42-0</u>	3 PAGE No4_

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE	FROM - TO	SAMPLE	AS	SAYS	AVERAGES AN
86.6	96	CON'T	110.		LEINOM			
		91.4' - 94' laminated py and minor chloritic bands with py blebs						
		- laminated at 80° to C/A, disseminated sph at 91.4'						
		94.5' ~ 95' massive py						
		95' - 95.5' massive po						
<u>-</u>		- some chlorite bands have small chert fragmetns						
96'	104'	MAFIC DYKE(?) with inclusions of chert, dark green, fine grained chloritic,						
		minor po, py						
104	105.4	GRAPHITIC CHERTY IRON FORMATION, minor laminated py, po, trace sph						
105.4	106	MAFIC DYKE(?) no inclusions						
106	115	GRAPHITIC CHERTY IRON FORMATION, obert somewhat brecciated						
		- stringers, seams, cpy, sph 106.5', 107'						
		- initially graphitic becoming chloritic downhole						
		- po seams at 110?, 114', with chlorite						
		- stringers po, py in chert at 110'?, 112'?						
		- 115 minor cpy						
		- core broken and ground (6' of core for 9' of drilling)						
		- banding at 65° to 80° to C/A						
		LOGGED BY: D. Mullen DATE: May, 1979 PROPE	RTY _ Cunnin	gham 42	не	OLE No.	u-42-03	PAGE No5

FROM - TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	AS:	SAYS	AVERAGES AND REMARKS
115 119	CHERT-MAGNETITE IRON FORMATION, light to dark chert beds, with thinner	1	1			<del>`                                    </del>	
	magnetite beds, with disseminated po.						
	- green alteration around magnetite bands (grunerite?)						
	- 117! banding at 85° to C/A						
119 120	6 CHERT-SULPHIDE IRON FORMATION, interbedded chert, py, sph, cpy, trace po, gal,						
	- much sph, trace galena with carbonate veinlet at 120'						
120.6 124	5 CHERT-MAGNETITE IRON FORMATION, as before, banding at 75°-85° to C/A						
	- 124.1' carbonate stringer with sph						
124.5 132	GRAPHITIC CHERT-SULPHIDE IRON FORMATION, chert brecciated at 125' - cut by						
	numerous py, po, sph stringers	-					
	- 125.2' contorted graphitic chert cut by sph stringer						
	- 125.7' - 126.3' massive po with blebs, cubes py, stringer sph, trace gal, cpy						
	- 126.6 - 128' dark chert cut by numerous sph stringers - minor disseminated py						
	- 128' - 129' stringers and disseminations of py in dark chert						
	- 129'-130' stringers of sph, carbonate veinlet with sph, gal, occassional						
	patch cpy						
	- 130' - 132' minor disseminations, seams, po						
	some po has a cubic habit - may be secondary po after py -						
	increase in magnetite at 132'						
	LOGGED BY: D. Mullen DATE: May, 1979 PROPERT	Y <u>Cunnin</u>	gham 42	<del> </del>	OLE No.C	u-42-03	PAGE No6_

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FROM -	- то	DESCRIPTION	SAMPLE No.	FROM -	-TO	SAMPLE LENGTH		ASS	SAYS		AGES AN REMARKS
132	140.5	CHERT-MAGNETITE IRON FORMATION, very thick chert beds, thin magnetite seams,									
	,	grunerite? alteration, minor po. occassional carbonate stringers						·			
1405.	142.1	GRAPHITIC CHERT IRON FORMATION, thin seams by, po with graphitic zones									
		interbedded with chert bands				•					
		- finely laminated at 85°-90° to C/A									
142.1	152.7	CHERT-MAGNETITE IRON FORMATION, disseminated po in magnetite chert is both									
:		light and dark grey as well as being spotted light or dark			:			_			
:		- 145' - 145.4' chlorite seam						_			
· · · · · · · · · · · · · · · · · · ·		- 152' banding at 90° to C/A				· ·					
152.7	153.1	GRAPHITIC ZONE, trace py									
153.1	166	CHERT-MAGNETITE IRON FORMATION, occassional thin chlorite seam									
		- light to dark massive to spotted chert									
	, par - c. ma	- trace po with magnetite bands	h q			<u> </u>					
		- 160' banding at 85°-90° to C/A	el est								· · · · · · · · · · · · · · · · · · ·
		- 164.7' minor py						···-			
166'		END OF HOLE									•
		LOGGED BY: D. Mullen DATE: May, 1979 PRO	PERTY Cunningh	am 42			IOLE N	10. <u>C</u> 1	1-42-03	PAGE N	o

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P -	ROPERTY	Y Cunningham 42 PROJECT 998 Texasgulf o. Cu -42-04 LAT. DEP. ELEV. LOC. 1+45W@ 1+60 N	CON AZ <sup>00</sup>	TRACTO	OR <u>Bradley</u> Br -70°coll .NGLE-70°156'	os START24 ar DEPTH 186'	/5/79 FINISH 25/5/79 CASING2*
FROM		DESCRIPTION 1+ 00 N			TO SAMPLE LENGTH	ASSAYS	AVERAGES AND REMARKS
0	2	CASING					
2	7	MAFIC TUFF(?), dark green-dark grey, core broken, some ground occassional					
		chert clast in chloritic matrix, minor blebs, disseminations and seams py,					
		$\sim$ 3' sph. cpy					
7	25	CHERT FRAGMENTAL, rounded chert clasts set in a dark green chloritic matrix,					
		not many fragments - much matrix					
		- minor seams disseminations, patches sph. py. cpy. po					
		- foliated at 50° to C/A					
		- disseminated sph, 15.1', 19.9', 20.5', 23.5'					
		- sph, cpy 17.2'					
		- fairly massive sulphide cpy, py, sph, po, ~21'					
		- 22'-22.5' sph. py disseminations and seams					
26	28	MAFIC TUFF(?), fine grained, dark green, initially well banded at 35° to C/A					
		26'-26.6' wispy seams sph, minor py					
		27.5' - 27.9' disseminated sph					
		LOGGED BY: D. Mullen DATE: May, 1979 PROPER	Cunnin	ngham 4	2	HOLE No. Cu-4	2-04 PAGE No

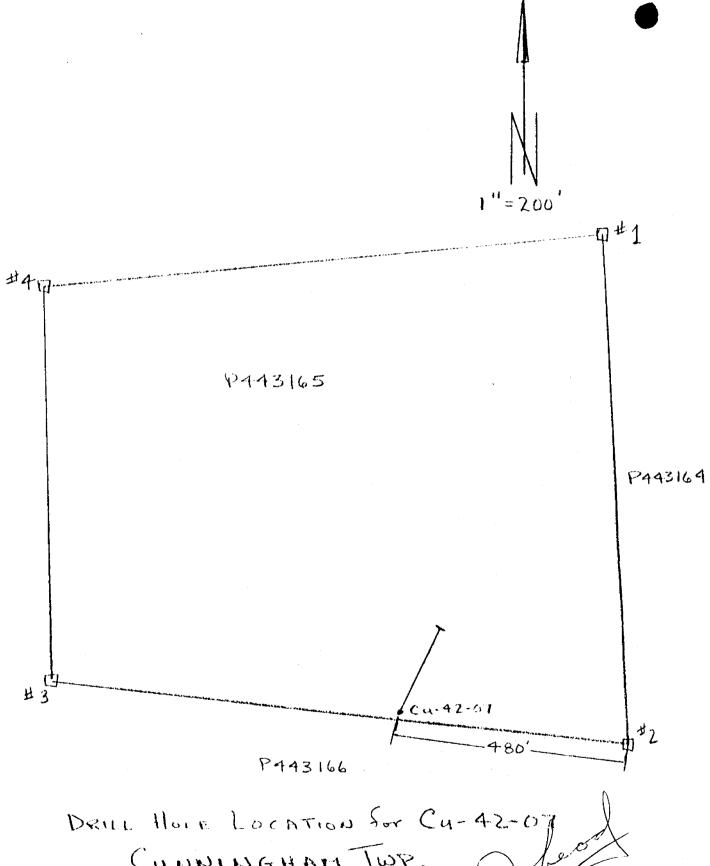
FROM	OT - 1	DESCRIPTION	SAMPLE	FROM - TO	SAMPLE	A	SSAYS	AVERAGES AND
-	1		No.		LENGTH			REMARKS
28	31.9	CHERT FRAGMENTAL, little matrix, light grey chert cut by several stringers sph.		-				
•		py, minor po seams and carbonate veinlets						
		- banded at 45° to C/A						
31.9	32.7	MAFIC DYKE(?) dark green, fine grained, disseminations blebs po, faintly						
		banded, inclusion? of chert, could be a mafic tuff						
32.7	34.2	CHERTY IRON FORMATION, minor chloritic seams						
		, 32.8 sph stringers with carbonate veinlet						
		- chert somewhat brecciated		:				
34.1	39.8	CHERT-NAGNETITE IRON FORMATION, minor disseminations, stringers po,						
		- grunerite(?) ground magnetite bands						
<u> </u>	: 	- 38' banding at 60°-65° to C/A						
39.8	44.9	GRAPHITIC CHERTY IRON FORMATION, chert somewhat brecciated						
		- section cut by numerous stringers, seams, disseminations of sph. cpy, gal, py						
		- 40.1' coarse grained galena in carbonate vein						
		- minor graphitic zones with seams py, sph						
44.9	46	MAFIC DYKE - dark green-grey, fine grained, chloritic, massive minor po,						•
		upper contact at 70° to C/A, lower contact broken						
	<del></del>	LOGGED BY: D. Mullen DATE: May 1979 PROPERTY	Cunningh	am 42	<b>}</b>	OLE No.	Cu-42-0	4 PAGE No2

FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE LENGTH	AS	SAYS	AVERAGES REMARK	AND (S
46	49.9	GRAPHITIC CHERTY IRON FORMATION, chert somewhat brecciated							
		- cut by numerous stringers sph, carbonate, disseminated po							
		- minor black, aphanitic chert beds							
		- banding at 70° to C/A							
49.9	73	CHERTY IRON FORMATION, chert initially brecciated							
		- minor magnetite, occassional sulphide seam			:				
		- black aphanitic chert beds							<del> </del>
		51.8' - black chert appears to be filling a void(?)	And the second s						
		54.5' - seams sph, cpy, gal, carbonate stringers, minor graphite				:			
		55.1' - sph. cpv							
		55.8' - contorted graphite with trace sph							
		57.9' fault							
		- numerous breccia zones - 51.9'-58.7', 59.5'-60.2', 61'-61.6', 70.5'-71' plus							
		many narrower ones							
		- breccias consist of angular to subangular chert fragments up to 3cm set in							
		a very dark, fine grained, slightly graphitic matrix							
		64.2' - disseminated po with chlorite wisps							_
		68' - banding at 55° to C/A							
		- green alteration (grunerite/) throughout much of the section but very little							·····
		magnetite							
		70.2' sph in carbonate veinlet							•
**		LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	, Cunning	ham 42	НО	DLE No. S	Cu-42-04	PAGE No3	3

FROM	<b>– TO</b>	DESCRIPTION	SAMPLE No.	FROM	-10	SAMPLE LENGTH		ASS	AYS	AVE	RAGES REMARK	AND (S
49.9	73	CON'T									<u> </u>	
		71.2' - disseminated and seam sph										
73	75.2	CHERT FRAGMENTAL, unusual looking - long stringy seams of chlorite running										
		almost parallel to C/A surrounding elongated chert clasts.									·	<del></del>
75.2	78.2	CHERT-MAGNETITE IRON FORMATION, chert brecciated "Tectonic"?			:							
78.2	79.7	MAFIC DYKE, fine grained, dark green, massive, broken contacts										
79.7	95.5	CHERT MAGNETITE IRON FORMATION, occassional chlorite seam										
		- chert often brecciated, disseminated po, minor py		-								
		- banding ranges from 10°-50° to C/A										
		- chert spotted										
		88.1' trace sph with chlorite, minor graphite										
		disseminated sph 88.9', 89.8'										
		- last 2' very massive looking				· · · · · · · · · · · · · · · · · · ·						
95.5	98	MAFIC DYKE(?) dark green, fine grained, chloritic, occassional chert inclusion?										
		nebulous contacts										
98	103.2	GRAPHITIC CHERT - SULPHIDE IRON FORMATION, chert cut by stringers and seams py,										
	<u> </u>	LOGGED BY: D. Mullen DATE: May, 1979 PROPERTY	YCunningha	m 42		}	HOLE N	lo. <u>C</u>	u-42-04	PAGE N	Vo4	

FROM -	то	DESCRIPTION	SAMPLE No.	FROM - TO	SAMPLE	AS	SAYS	AVERAGES AND REMARKS
98 1	03 2	CON'T	1 140.	+ 1	ELINOITI			KEMIANO
30 12	03.2							
		sph. po, gal interlayered with fairly massive py, po , with minor sph, cpy	-		-			
		- banding at 70° to C/A						
			·					
103.2 1	35	CHERT FRAGMENTAL - initial 2' the matrix consists of 20% sulphide py, po,	#		•			
		trace cpy						
		- sulphides diminish at 105', matirx becomes darker more graphitic			1			
		- cut by numerous carbonate veins, stringers	: 					
		116' - 118' sph stringers, disseminated py, po	:		: :		t. ann man	
		121 - po seam	<u> </u>		: -			
		127'-128' not brecciated - chert -magnetite iron formation, banding at 70° to	:					
-		C/A becomes less graphitic toward 135'	t colores		+			
135 1	58.3	CHERT-MAGNETITE IRON FORMATION BRECCIA, magnetite increases downhole, many						
		brecciated sections 138.4-139.1', 141-143.3', 144.1-145.2', 150.5-152', 152.7-154.5', 157-158.3'						
		- disseminated po throughout breccia sections, dark matrix slightly graphitic	- the state of the					
		- 143.7 carbonate veinlet with sph	T manager is a second of the s					
		- 145' banding at 25 <sup>o</sup> to C/A						
		- large dark laminated chert clast at 151.8'						
		- banding at 25°-35° in laminated chert unit at 157'	i di					
		- 157.9' trace cpy with po	The cases and the case and the cases are c					
		LOGGED BY: D. Mullen DATE: May, 1979 PROPERT	<b>y</b> Cunningth	am 42	<del>}</del>	OLE No.	Cu-42-04	PAGE No5

ROM - TO	DESCRIPTION	SAMPLE No.	FROM-	-10	SAMPLE LENGTH	AS	SAYS	AVERAGES AN REMARKS
58.3 183	CHERTY IRON FORMATION, several chloritic seams							
	- several breccia and graphitic zones							
	160'-161' stringers disseminations sph. gal. minor po. py carbonate stringers							
	165.3'-167.5' stringers seams sph, gal in breccia zone with carbonate veinlets							
	168'-169' chert fractured and carbonated				-			
	172.2'-173.2' graphitic zone with seams py, po							
,	175' banding at 50° to C/A							
	177' - 179' brecciated chert with minor po, chloritic matrix							
	179.8'-180.1' brecciated, stringers by disseminated po graphitic matrix							
	181-182.5' brecciated, disseminated po, py, graphitic matrix							
	182.3' sph stringers							
83 186	CHERT-MAGNETITE IRON FORMATION, well banded, green alteration throughout							
:	(grunerite?), chloritic fractures, spotted chert			91 (P. L.		Page 1		
	- 185' banding at 70° to C/A							
86	END OF HOLE	(0)						
	Jary "							
	LOGGED BY: D Mullen DATE: May, 1979 PROPERTY	Cunnin	aham 4	2	H	OLE No. 1	Cu-42-0	4 PAGE No6



CUMNINGHAM TWP.

• Pi	ROPERTY	Y_Cunningham 42 PROJECT 993 TEXASGUIF	CON	ITRACTOR_	Bradley 1	Bros	S <sup>·</sup>	TART_3	31/5/	79FINISH <u>3/</u>	6/79
Н	OLE No	DEPELEVLOC4+70W; 0+70N									
	<u> </u>	DESCRIPTION	SAMPLE	FROM - TO	SAMPLE		ASS	AYS		AVERAGES -	AND
FROM	- 10	DESCRIPTION	No.	TAOM 10	LENGTH	Cu_	22	Pb	Ra	REMAR	(S
0	14.5	CASING			_						
14.5	28.8	MAFIC VOLCANIC (?), TUFF (?), fine grained, dark grey-green, minor foliation									
		at 55° to C.A., odd siliceous clot, minor pyrite, carbonate veinlets									
		- grades into banded very siliceous section from 27'-28.8'									
	<del> </del>										
28_8_	29.8	MAFUC TUFF (?), becoming very siliceous towards 29.8'									
<u> </u>		- quartz-carbonate veinlet at 28.9'									
29.8	32_	FELDSPAR PORPHYRY, very finely porphyritic, medium grey, siliceous matrix									
-		- very nebulous contacts	-								
32	33	SILICFOUS TUFF, very fine grained, medium to dark grey									
		- banding at 50° to C.A., minor py									
		- 32.8' quartz-carbonate vein								·	
33	38.5	FELDSPAR PORPHYRY, very finely porphyritic, very siliceous									
		- upper contact vague but appears to be at 50° to C.A.				ļ					
		- lower contact at 35° to C.A.									
	<del></del>	LOGGED BY: D. Mullen DATE: June, 1979 PROPER	RTY Cunn	ningham 42		НО	LE No	o. <u>Cu-</u>	42-07	PAGE No.	

FROM - TO	DESCRIPTION	SAMPLE	FROM	1-TO	SAMPLE LENGTH		ASS	AYS		AVERAGES AND
-KOM - 10	DESCRIPTION	No.	1 NOW	r	LENGTH	Cu	122	PP	P.a	REMARKS
38.5 50.4	INTERBEDDED MAFIC TO FELSIC TUFFS, felsic component somewhat sericitic,									
	mafic component chloritic									
	- lighter coloured carbonate-rich zone 42.8'-43.2'									
	- banding at 50° to C.A.									
	- minor py with mafic tuff									-
50 4 56 2	MAFIC TUFF, carbonate rich, chloritic, occasional siliceous clot									
30.2	53.2' - sph with carbonate "breccia"									
	55.5' - disseminated, stringer py			-						
	56' - contorted									
36.2 64.8	FELSIC TUFF (?), possibly fine grained(?), cherty lamination									<u> </u>
	- contains clasts (?) of feldspar porphyry									
	- feldspar phenocrysts in medium grey, fine to very fine grained matrix									
	at 61.4', 62'								-	
	59.2'-60', carbonate zone with disseminated sph, galena, py							<u> </u>		
	63' - banding at 55° to C.A.									
3.8 68	MAFIC TUFF, with siliceous fragments grading into banded "cherty" tuff, minor py									
								<u> </u>		ale in
	LOGGED BY: D. Mullen DATE: June, 1979 PROF	PERTY Cunningl	am 42	?		HOLE	No. C	u=42	-07 PA	GE No. 2

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FROM -	- TO	DESCRIPTION	SAMPLE	FROA	4 – TO	SAMPLE LENGTH		ASS	AYS	<del>-</del>	AVERAGES
FROM -	- 10	DESCRIPTION	No.	1 20	· · · ·	LENGTH	Cu	12n	1 Pb	P9_	REMARKS
58	71	MAFIC TUFF, with chert fragments up to 5cm grading into a cherty tuff,	ļ				<u> </u>				
		disseminations py						]			
		- 69' black chert clast with sph									
									ļ	ļ	
1 9	91.5	MAFIC TUFF (CHERT FRAGMENTAL) very carbonated dark green chloritic matrix									
		with minor chert clasts						ļ. ——			
		- minor py, po					<u> </u>				
		- foliated at 40° to C.A.		-							,
		- becomes rather non-descript massive looking from 81'									
		- carbonated zones are "splotchy" looking									
								ļ <u>.</u>			
21.5	97.6	CHERT FRAGMENTAL. chert fragments set in a chloritic matrix									
		- carbonate throughout					ļ				
		91.8' carbonate veinlets with sph. stringers sph. disseminated py									
	<del>-</del>	- becoming more massive downhole, chert beds, po seams									
		- minor argillaceous zone									
		- 96.5' disseminated sph. stringers by									
		- 97.3' - very dark chert cut by carbonate veinlets							ļ	ļ	
										ļ	
97.6	103.5	CHERT-MAGNETITE IRON FORMATION, initial magnetite band with much po. chlorite.					<u> </u>				
		minor brecciation, po stringers in chert					-			ļ	1
	,			1							271
<u>`</u>		LOGGED BY: D. Mullen DATE: June, 1979 PROPERT	Y <u>Cunning</u> !	am 4	2		HOLE	No. C	u-42-	-07 P	AGE/No3

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FROM - TO	DESCRIPTION	SAMPLE	FROM	-10	SAMPLE		ASS	AYS		AVERAGES AN
rkom - 10	DESCRIPTION	No.	1 70/1		SAMPLE LENGTH	Cu	720	Pb	Pg	REMARKS
.03.5 113.€	MASSIVE TO SEMI-MASSIVE SULPHIDE, interbedded with minor chert fragmental and		1							
	occasional chlorite seams, graphite, carbonate									
	- sulphides consist mainly of finely laminated py with minor po, disseminated					<u> </u>				
	and stringer sph at 105.5', 106.5', 109.7', 113.5',									
	- laminated at 50° to C.A.				<u> </u>					
	·									
113.6 122	CHERTY IRON FORMATION, with chlorite seams carrying po, sph, cpy									
	- py stringers cutting light grey chert at 113.6'									
	- sph stringers 118' - 118.5', 119.5'									
	- stringers cpv, sph, galena, 120-212', 121.6' with carbonate veinlets									
122 135.	5 CHERT MAGNETITE IRON FORMATION, light coloured chert with black spots,									
	disseminated po throughout magnetite bands and chlorite seams									
.,	- 122.8' actinolite rosette									
	- 126' banding at 50° to C.A.					ļ 				
	- 130.4' - 131.1' po-rich section									
	- 132.4' disseminated cpy with po									,
	- some green alteration grunerite?									
135.5 140.	1 CHERTY IRON FORMATION, well banded, chlorite bands with disseminated po									
	quartz carbonate veins at 135.9', 136.2'									
	disseminated sph at 136' , 138.5'-140'									BAY-
		TY Cunnin	gham	42		HOLE	No. C	u-42-	-07 PA	AGE No. 4

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FROM - TO	DESCRIPTION	SAMPLE	FROM	λ-TO	SAMPLE LENGTH		ASS	AYS		AVERAGES A
PROM - 10	DESCRIPTION	No.		T	LENGTH	Cu	<u> 20 </u>	Pb	<u>G</u>	REMARKS
135.5 140.	CON'T		<u> </u>	ļ						
	139 7-140' large carbonate veinlet with stringer sph. galena		-							
	140-140.1', fairly massive sph with galena, cpy									
140.1 142.	MASSIVE PYRITE, finely laminated at 55°-60° to C/A			<u> </u>						
	- minor chert band at 142'									
142.3 149	GRAPHITE-CHERT-SULPHIDE IRON FORMATION, finely laminated massive to semi-									
	massive pyrite interlayered with dark graphitic and light coloured chert									
	- laminated at 50° to C/A									
149 152.	CHERT-MAGNETITE IRON FORMATION, light chert,									
	150.2' py with chlorite zone		<u> </u>							
	150.6' disseminated sph		ļ		<u> </u>				-	
	150.8' - sph in carbonate veinlet		<u> </u>			<u> </u>	<u> </u>			
			ļ	ļ		1				<del> </del>
152.4 158.	GRAPHITIC-CHERTY IRON FORMATION, minor chlorite beds		<u>                                     </u>							
	- cut by pv stringers									
	- sph_stringers 152_4'-152_6', 153_7'									
	- disseminated sph at 155.8'  153.4' coarse galena with py stringer in graphitic zone									6
	155.4 Coarse garena aren 57 Ser riiger in gammana									
	LOGGED BY: D. Millen DATE: June, 1979 PRO	PERTY Cunning	ham .	42		HOLE	No. C	u-42-	-07 P	AGE No5

FROM -	- TO	DESCRIPTION	SAMPLE	FRO	M-TC	SAMPLE		ASS	5AYS		AVERAGES
·KOM		DESCRIPTION	No.	-	<del>1</del>	LENGTH	I Cu	12n	1 Pb	Ag	REMARKS
<u>58.3</u>	158.7	7 FELDSPAR PORPHYRY, medium grey, odd quartz phenocrysts, sparsely porphyritic					<u></u> '		-	<u> </u> '	+
,	<u> </u>									<u> </u>	
5 <u>8.7</u>	161	CHERTY IRON FORMATION, minor chlorite, graphitic argillite,								· [	
		minor guartz thenocrysts, pink alteration					,				
	1	- minor brecciation									
	1	- banding at 60° to C/A									
	1	- banding at 60 to C/A					+		-	+	
				+			+'		-	+'	
L <b>6</b> 1	178	FELDSPAR PORPHYRY, core very broken, full of chloritic fractures						-		1	-
·	<u> </u>	minor quartz phenocrysts, pink alteration					<u> </u>	<u> </u>		<u> </u> '	
······································	<u> </u>	- medium grey feldspar phenocyrsts up to 3mm, guartz phenocrysts to 1.5mm					<u>'</u>		,	1	
<del></del> ,	!	- upper contact broken, lower contact at 40° to C/A					'			1	
,	1						,	•			
178	181.	d CHERT-MAGNETITE IRON FORMATION, initially brecciated with much disseminated									
./0	101.5				+		+			+	
, <sup>'</sup>	·	sph, minor galena, cpy.		-		1	+	<del>                                     </del>		+	
·	<del></del> '	- disseminated po associated with magnetite bands	-		1	!	+'	<u> </u>	+'	1	+
·	<u>(                                      </u>	- odd chlorite seam, fracture			<u> </u>	<u> </u>	<del>_</del> '	<u> </u>	<u> </u>	1	
· _ <del></del>	1	- actinolite rosettes 180.5' - 180.9'			<u> </u>	1	<u> </u>	<u> </u>		1	
	<u> </u>	- 181.1' black aphanitic chert, appears to be filling a void			,		1!	ļ'		.	1
<del></del> i							,				
181.6	201	GRAPHITIC CHERTY IRON FORMATION, very dark graphitic chert		1							
		with minor chlorite seams, minor magnetite									
	1	- minor lighter coloured carbonate rich zones			-						(2)
			RTY Cunning	jham 4	12		HOLE	No۲		<u>-0</u> 7 P/	AGE No6

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FROM -	- TO	DESCRIPTION	SAMPLE	FROM	 Д-ТО	SAMPLE LENGTH		ASS	AYS		AVERAGES
FROM	10	DESCRIPTION	No.		7 · · ·	LENGTH	Cu	<u>  25</u>	Pb	9	REMARKS
181.6	201	CON'T				<u> </u>		<u> </u>	ļ		
		sulphides mainly in graphitic sections, finely banded at 55° to C/A			ļ			<u> </u>			
	1	191' - disseminated cpy, stringers sph, trace galena		-					-		
· · · · · · · · · · · · · · · · · · ·	1	196' disseminated cpy, with po seams		<del> </del>	<u> </u>			<u> </u>			
		198.5' sph stringers			<u> </u>		<u> </u>	<u> </u>	ļ		
<del></del> -	<u> </u>	- chert breccia 199.8' - 200.8'		<del></del>	<u> </u>			-			
		- stringers disseminations sph 199.8'-200.3', 200.7'		-	-		-		-		
<del></del> !	<del>                                     </del>				-			-	-		<del></del>
201	214.6	CHERT MAGNETITE IRON FORMATION, carbonate rich chert bands		-	ļ		1	-	<del> </del>	ļ	
	1	- magnetite bands with disseminated po, minor chlorite seams		-	-		<del> </del>	1		-	
/ <del></del>		- 211 banding at 50° to C/A		-	-		<del> </del>		<u> </u>	<u> </u>	
·	1			+			<del>                                     </del>	-		-	
214.6	215.1	MAFIC UNIT, dyke(?), fine grained, dark green, chlorite full of tiny light		<del> </del>	<del> </del>		<u> </u>	<del> </del>	<del> </del>		
<u></u>		coloured euhedral crystals, leucoxenes?		-			-				
215 1	251_	CHERT-MAGNETITE IRON FORMATION, little magnetite initially,									
; <b></b>	1	increasing downhole. light-dark chert, spotted cherts			<u></u>		<u> </u>	<u> </u>	<u> </u>	ļ	
<b> </b>		- disseminated po in magnetite		+	-		<del> </del>		<u> </u>		
<u>,                                    </u>	+	- minor brecciation, po stringers, carbonate veinlets		<del> </del>	ļ		<del>                                     </del>	-	<del> </del>		
<del>/</del>	1	- 228' - minor fault		+	ļ		<del> </del>		<u> </u>		
/ <del></del> '	1	- green alteration - (grunerite?) throughout		-		<del> </del>	-	<del> </del>		-	100
	1	- 230' banding at 45° - 50° to C/A									TOLL
i	_	LOGGED BY: D. Mullen DATE: June, 1979 PRO	OPERTYCunning	gham (	42	I	HOLE	No. C	n−42 <b>-</b>	-07 P/	AGE No7_

FROM - TO		DESCRIPTION	SAMPLE	- IFDC	144 TC	SAMPLE		ASSAY	5	AVERAGES AN
FRUM -	7-10	DESCRIPTION	No.			SAMPLE LENGTH	Cu	12n   F'	b Ag	AVERAGES AN REMARKS
<u> 215.1</u>	251	CON'T			<u> </u>		<u> </u>	1		
,		243.5' - disseminated sph					ļ ,			
		245' banding at 65° to C/A			<u> </u>		de de la companya de			
251		END OF HOLE			,		;			
					1					
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HOLE NO. CU-42-07 PAGE NO. 8						42	<u>, msdpainau⊃</u> Ү	IOGGED BY: D. Mullon DATE: June, 1979 PROPERTY	COCCED BY: D. WILLOR			
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