



## DIAMOND DRILLING

TOWNSHIP: CHESTER

REPORT No.: 24

WORK PERFORMED BY:

TEXASGULF INCORPORATED

		•		
CLAIM No.	HOLE No.	FOOTAGE	DATE	Note
P 492360	53-2	93.3	Oct./79	(1)
	53-3	100.8	Oct./79	(1)
	53-5	77.1	Nov/79	(1)
	53-6	€ <b>93</b> -2	Nov./79	(1)
	53-7	76.2	Nov./79	(1)
	53-8	90.0	Nov./79	(1)
	53-1	<b>115.8</b> %	Oct./79	(2)
	53-4	99.4	Oct./79	((2)
	53-9	99.5·	Nov./79	(2)
	9	845.3	·	

Notes: (1) (2)

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TEXASGULE INC.
DIAMOND DRILLING
CHESTER TWP

SCALE: 1" TO 400" ORANN BY: D.V. MULLEN

Del Male

	_									0/79 FINISH 28/10/79
HOLE	No	5N AZ. No	а <b>е</b> А <b>ТВ</b>	ANG	L <b>E</b> 63°	_ DEF	PTH_	3.3	C#	ASING
FROM - TO	DESCRIPTION	SAMPLE	FROM	4-TO	SAMPLE LENGTH		1	AYS		AVERAGES AND REMARKS
0 93.	3	140.	-	Ī	LENGIN	Cu	Zn	Au	Ag	REMARKS
0 496	GRANODIORITE:		<del> </del>						-	
	- light to medium grey, medium grained		<del> </del>				<u></u>			
	- porphyritic - blue Otz-eyes									
	- speckled throughout - chlorite as fibrous masses,									
	- weak foliation at 40-50°									
	- moderately sericitized						T T T T T T T T T T T T T T T T T T T			
	Numerous short altered sections						Market 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	- medium blue-grey, medium grained									
	- porphyritic - blue Qtz-eyes									
	- quite noticeable		ļ							
	Chlorite as fine grained masses - not speckled. The altered zones									
	generally occur in association with the mineralization	3135	7	10	314	0.0,3	3-84),	7	ړی د	
	Altered Zones (1) 8.4 to 9.3			<b></b>	-					
	(2) 18.0 to 18.6	9136	13	<b>i</b> 5	<del>ጋ</del> ቶት	0.13	<b>c</b> (0)	10	<b>a</b> cai	
,	(3) 20.0 to 23.2									
	(4) 39.0 to 39.5)	9137	is_	ગ્ર૦	59+	0-036	೭ ೦೮೩	To	0.03	
	(5) 39.5 to 42.5									
	(6) 43.2 to 47.3									
	(7) 48.3 to 49.1						*			
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROP	ERTY_Chest	er 53			НО	LE No	Ches	s <b>−</b> 53−2	PAGE No

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FROM - TO	DESCRIPTION	SAMPLE No.	FROM -	TO SAMPLE LENGTH			AYS		AVERAGES AN
		No.	T NOW	LENGTH	Cu	Zn	Au	Ag	REMARKS
93.8	Con't								
	(8) 72.8 to 73.2								
	(9) 74.8 to 75.3								
	(10) 76.1 to 77.0								
	Disseminated sulphides occur from 16.0 to 27.0								
	37.5 to 49.3					<u> </u>	<u> </u>		
	54.6 to 56.0								
	Main sulphides zones: 8.0 to 10.5								·
	13.0 to 27.0								
	37.5 to 42.0							-	
	45 to 47.5								
	predominately as (1) strongly disseminated masses	9138	20	2. 5 2.5'		0. 015	.015	.16	
	(2) fracture fillings, 1/6" to 1/8" wide	9139	22. 2	3. 5 1'	0. 65	0. 013	.02	. 24	
	At 22.9 Otz-carb zone, 2" wide at 750 to C.A., parallel								
	chloritic, 20% sulphides	9140	37 3	9 2'	0.	002	Tr	.04	
	At 39.8 7" Qtz veined zone - very irregular - 5% sulphides	9141	39 4	1 2'	1. 92	0. 022	.07	.77	
	At 42.9 1" Otz-carb vein at 45° to C.A., perpendicular	9142	41 4	5 4'		0. 018	.015	.33	
	5% sulphides	9143	45 5		0.	0.		. 26	
	At 45.7 l" Qtz vein - very irregular								
	40% sulphides	9144	54 5	6 2'	0.	0. 002	Tr	.02	`
	At 62.1 3½" Qtz vein at 60° to C.A., parallel	9145	62 6		0.		-	.02	
	barren, chloritic on contacts								
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PR	OPERTY _Chester	. ea		HOLE	No ~	<del>-</del>		AGE No

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70	DECCRIPTION	SAMPLE	EDOM	TO	SAMPLE		ASS	AYS		AVERAGES AND REMARKS
ROM - TO	DESCRIPTION	No.	FROM	(-10	SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS
93.8	Con't									
	At 71.8 ½" Qtz vein at 60° to C.A., perpendicular									
	5-7% sulphides	9146	71.	73. 5	2'		0.	Tr	. 05	
	At -76.1 ½" Qtz-carb-vein at 80°, parallel									
	5% sulphides									
	At 76.3 ½" - 3" Qtz-carb vein at 70-80°, parallel									
	5% sulphides	9147	73.	77	3.5'	23	006	.12	.13	
	At 84.0 l" Qtz vein at 75° to C.A., parallel	9148	83	85	2'		0. 001	Tr	Tr	
	5% sulphides, chloritic on contacts									
93.3	END OF HOLE									
			11							
	De Will						ļ	ļ		
								ļ		
							-	<u> </u>		
								<u> </u>	<u></u>	
						<u> </u>				
								<u> </u>		
								<u> </u>		
								<u> </u>		
	J. Den Wedner									
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979	PROPERTY_Cheste	r 53		+	HOLE	No.C	hes-5	3-2p	AGE No3

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PR	OPERTY.	Chester 53         PROJECT #64         Texasguif           Ches-53-3         LAT.         DEP.         ELEV.         LOC. 34+65W, 0+90	CON 0N . 7 . 8	ITRAC	TOR	Bradley -60°	Bros	S	TART 2	8/10	/79FINISH 30/10/79
				<del>,</del>		<del></del>	<del></del>		AYS		ASING8AVERAGES AND
FROM	- 10	DESCRIPTION	No.	FROM	W-10	SAMPLE LENGTH	Cu	7	Au	Ag	REMARKS
0	8	OVERBURDEN									
8	12	GRANODIORITE;									
		Altered from 8.0 to 10.2									
		Medium blue-grey, medium grained									
		Porphyritic - blue Qtz-eyes									
		Disseminated									
		Unaltered from 10.2 to 12.0									
		Light grey, medium grained	1								
		Occasional blue Otz-eyes						<u> </u>			
		Minor chlorite specks		<u> </u>			<u> </u>	ļ			
		Sericitic						<u> </u>			
		At 8.0 3" Otz zone - very irregular, limonitic, minor sulphides	ļ	ļ	ļ						
		At 9.1 95" Otz vein at 55° to C.A., parallel, 2% sulphides	·								
		At 10.1 1½" Qtz-carb-Chlorite zone at 60° to C.A., parallel,	<u> </u>								
		2% sulphides	9149	8	12	4'		0.	.005	.04	
		At 11.2' ½ to 1" Qtz vein at 65° to C.A., parallel, minor sulphides									
		12.0 to 15.4 - mafic zenolith									
		- light to medium greenm fine grained									
		LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROPE	RTY Cheste	er 53			НС	LE No	Ches	-53-	PAGE No1

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FROM - TO	DESCRIPTION	SAMPLE	FROM -	SAMPLE LENGTH		ASS	AYS	,	AVERAGES AND
	OLOCKIF HOIN	No.		LENGTH	Cu	Zn	Au_	Ag	REMARKS
8 12	Con't								
	12.0 to 15.4 Con't								
	- banded - often contorted								
	- strongly foliated at 50-55° to C.A.								
	- minor Py, Cpy				ļ				
	At 12.7 l" granodiorite dyke at 45-70° to C.A.								
	At 13.0 1-12" granodiorite dyke at 55° to C.A.					ļ			
	At 13.5 3" granodiorite zone - very irregular								· ·
	At 14.1 4" granodiorite dyke at 50° to C.A.								
15.4 100	.8 GRANODIORITE								
	- light to medium grey, medium grained								
,	- scattered blue Otz-eyes, porphyritic								
	- minor chlorite 2-3%, occasionally speckled, weak to strong sericitization								
	- very weak foliation at 50-60° to C.A.								
	Several strongly sericitized zones								
	- light yellow-grey, fine to medium grained								
	- have short irregular Qtz stringers - wormy quartz								
	- not mineralized at (1) 33 to 42.0								
	(2) 64.5 to 71.6								
	(3) 81.1 to 82.0								
	from 75.0 to 100' only a few mineralized zones generally associated with								
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROPERTY	Chester	53		HOLE	No. C	hes-5	3-3p/	GE No. 2

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FROM - TO	DESCRIPTION	SAMPLE	FROM	-10	SAMPLE			AY\$		AVERAGES AND
raum - 10	DESCRIPTION	No.	ILYOW	- 10	SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS
15_4 100-8	Con't		1							
	quartz vein or fracture fillings									
	At 21.7 ½" Qtz-carb vein at 75° to C.A., perpendicular									
	minor Py									
	At 26.8 1 to 3" Qtz-carb-chlorite zone at 65 <sup>0</sup> , parallel									
	5% sulphides									
	At 31.0 ½" Qtz-carb zone at 55° to C.A., perpendicular									
	chloritic									
	At 37.5 2" patchy Qtz zone, irregular									
	At 44.0 ½" Qtz-carb zone, very irregular, perpendicular						ļ			•
	barren	!								
	At 66.1 ½" Qtz-carb stringer at 60° to C.A., parallel									
	minor sulphides									
	At 66.5 %" Qtz-carb stringer at 55° to C.A., parallel									
	barren									
	At 74.8 Carb zone at 35° to C.A., parallel									
	chloritic	9150	75	79—	4'	0. 15	0.	_00	5_03	
	At 78.0 1" Qtz-carb vein at 35° to C.A., parallel									
	10% sulphides	9151	79	80	1'		0.	. 02	. 31	
	At 79.0 6" Otz-carb vein, very irregular									
	5% sulphides	9152	80	82	2'		0.	Tr	. 02	
.	At 84.1 4" Qtz vein at 30° to C.A., parallel, 2-3% sulphid	es								
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979	PROPERTY_Chester	53			HOLE	No. C	hes-	53-39/	AGE No3

(中央の対象) 「中央の対象」をいっています。 Control (Manager Manager Manager

FROM -	TO	DESCRIPTION	0.1	SAMPLE	EDO	4 - 70	SAMPLE		ASS	AYS		AVERAGES AN
-kOM -	- 10	DESCRIPTION	ON	No.	FROM	1-10	SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS
15.4	100.8	Con't			<u> </u>	ļ!						
		At 86.1	الم" Qtz vein at 40° to C.A., parallel	9153	84	86	21	0. 099		Tr	.02	
			2% sulphides			ļ						
		At 87.2	الم " Otz-carb vein at 70° to C.A., perpendicular									
			minor sulphides, chloritic									
		At 87.9	1-2" wide Qtz-carb vein at 80° to C.A., perpendic	ular								
			5% sulphides	9154	87	88	1'	0.	0.	Tr	- 02	
:		At 89.5	الم Otz-carb zone at 60° to C.A. perpendicular	9155	88	89	1'	0.		1	02	
		AC 03.3						U44	002	177	02	
-	+-	At 90.0	10% sulphides 1" Qtz vein at 50° to C.A., parallel		<del>                                     </del>							
<del>-</del>		AC 30.0			-	91.		0.				
			minor sulphides, chloritic	9156	89	5	2.5'	044	002	Tr	.02	
		At 91.2	2" Otz-carb vein at 80° to C.A., parallel	·						ļ		
			2% sulphides									
<u> </u>		At 92.5	4" Qtz vein at 80° to C.A., parallel									
			chloritic									
		At 92.7	l" Otz vein at 85° to C.A., parallel									
			barren									
İ	100.8	END OF HOL	Е					-				
			De Mille									
- 1			" We " " Markley									
			P. Der Wednum									

Pi	ROPERTY										<sup>79</sup> FINISH 4/11/79
Н	OLE No	Ches-53-5 LAT. DEP. ELEV. LOC <sup>36+25W,1+15N</sup>	AZ <u>No</u>	ETH A	ANGLI	E <u>-60<sup>6</sup> </u>	_ DEP1	TH 77	7.1'	_ CA	SING
FROM	<b>-</b> TO	DESCRIPTION	SAMPLE No.	FROM ·	-то 3	SAMPLE LENGTH		ASSA	AYS		AVERAGES AND REMARKS
0	5	OVERBURDEN:									
				-							:
5	6.3	GRANODIORITE:									
		- medium-dark grey, medium grained		1 1							
		- strongly foliated at 40° to C.A.									
		- scattered small blue Qtz-eyes									
		- 20% chlorite present - accounts for dark colour									
6.3	8.7	QUARTZ DIORITE:									
		- dark-medium grey-green, coarse grained									
		- scattered blue Qtz-eyes - generally are small		-							
		- minor Mt. throughout									
	=	- moderate foliation at 40° to C.A.				<del></del>					
		- contacts with granodiorite irregular and hazy - often strongly chloritic									
8.7	11.7	GRANODIORITE:									
		- medium grey-green, coarse grained									
		- strongly chloritic									
		- small blue Qtz-eyes									
		LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROPER	TY_Chest	er 53			HOLE	E No.	Ches	- <b>53-</b> 5	PAGE No1

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FRÒM – TO	DESCRIPTION	SAMPLE	EDO	4 - TO	SAMPLE		ASS			AVERAGES AND
rkOM = 10	DESCRIPTION	No.	IFROM	λ-10	LENGTH	Cu	Zn	Au	Ag	REMARKS
8.7 11	.7 Con't		]							
-	- foliated at 30° to C.A.									
	- minor sulphides (Py, Po, Cpy) plus Mt		<b>†</b>	-						
11.7 77	.1 QUARTZ DIORITE:									
	- medium to dark green, coarse grained				T					
	- large blue Qtz-eyes									
	- strongly foliated at 35-40° to C.A.		ļ							
	- 30% chlorite - often stretched parallel to foliation									
	- minor Py, Mt	·								
	Strongly contorted from 23.8-28.3' (Shear Zone?)		ļ							
	Altered zone from 41.1 to 52.2' (Shear Zone?)		<u> </u>							
	dark blue-green, coarse grained		<u> </u>					ļ		
	large blue Otz-eyes								<u> </u>	
	strongly foliated at 50° to C.A.					<u> </u>				
	mineralized		<u> </u>	ļ						
	Mineralized Zones: 23.8 to 26.4									
	40.0 to 52.2	9168	23.	27	3.5*	1. 50	0. 018	.03	.57	
	At 24.5 8" zone of qtz-carb stringers - very irregular							<u> </u>		
	10-20% sulphides		<u> </u>							
	At 25.8 9" zone of qtz-carb - strongly contorted							<u> </u>		
	10-20% sulphides - some sphalerite									
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979	PROPERTY Chester	53			OLE	No.Cl	es-5	3-5 P/	AGE No2_

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ROM - TO	DESCRIPT	ION	SAMPLE	FROM	\-TO	SAMPLE LENGTH		ASS	AYS		AVERAGES AN
1	DESCRITT		No.	-	· · ·	LENGTH	Cu	lzn I	Au	Ag	REMARKS
11.7 77.1	Con't			-					<u> </u>		
	At 27.2	9" Qtz-carb zone - very strongly contorted		ļ	<u>-</u>				ļ		
		strongly foliated at 45° to C.A.					ļ	ļ			
	At 31.4	8" granodiorite dyke		-			ļ		ļ		
		contacts very irregular						ļ <u>-</u>	ļ		
	At 41.5	lh" quartz vein at 60° to C.A., parallel to foliation		ļ					<u> </u>		
		minor Py					ļ	ļ		ļ	
	At 41.9	guartz vein at 60° to C.A., parallel to foliation		-					ļ		
		minor Py							ļ		
	At 44.8	l's" quartz carb vein at 40° to C.A., parallel to foliation					1.	0.			
		40% sulphides	9169	40	45	5'	1	019	.03	.40	
	At 47.2	2-4" quartz zone, very irregular		ļ					<u> </u>		
		20% sulphides					ļ		ļ		
	At 48.1	quartz vein at 30° to C.A., perpendicular to foliation							<u> </u>	<u> </u>	
		minor Py		<u> </u>							
	At 48.5	'a" quartz vein at 30° to C.A., perpendicular to foliation	9170	45	50	5'		0.	.025	.16	
	At 51.8	Quartz-carb-chlorite zone at 50° to C.A., parallel to foliation					_				
	`	2% sulphides	9171	50	55	5'		0.	Tr	Tr	
	At 52.8	Qtz-carb vein at 50° to C.A., parallel to foliation									
		barren				<u></u>					
	At 65.6	1½" granodiorite dyke at 55° to C.A., parallel to foliation									
	At 67.4	2" granodiorite dyke at 55° to C.A., parallel to foliation									
	LOGG	ED BY: J. Der Weduwen DATE: Nov. 1979 PROPERTY	Chester	53	-		HOLE	No.C	hes-5	3-5P/	AGE No3

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EPON TO	DECCRIPTION	SAMPLE	EDO44	SAMPLE		ASS	AYS		AVERAGES AN REMARKS
ROM - TO	DESCRIPTION	No.	rkom -	TO SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS
11.7 77.1	Con't								
	At 67.9 l" granodiorite dyke at 55° to C.A., parallel to foliation								
	At 67.9 l" granodiorite dyke at 55° to C.A., parallel to foliation		-		+				
	strongly sericitized								
									···.
77.1	END OF HOLE								
	De Mulle			1.					
	Nhe Walle	,							
	·				-	· ·			
					-				
			-						
									-
			-						
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	J Dar Wedur		<del>  -</del>	_					
	y were		1						

PF	ROPERT	Chester 53 PROJECT #64 Texasguif	CON	ITRACTOR_	Bradley 1	Bros.	s	TART <sup>4</sup> /	/11/	<sup>79</sup> FINISH 5/11/79
н	OLE No	O-Ches=53=6_LATDEPELEVLOC37+75W:1+1	5N_ AZ \( \frac{\dagger}{\sqrt{\lambda}} \)	SET ANG	SLE60°	_ DEF	PTH_	93.2 <b>'</b>	_ CA	ASING6.8'
FROM	- 10	DESCRIPTION	SAMPLE	FROM - TO	SAMPLE			AYS		AVERAGES AND
	T		No.		LENGIH	Cu	Zn	Au	Ag	REMARKS
0	6.8	OVERBURDEN				<u>                                     </u>				
		,								
6.8	28.4	QUARTZ DIORITE		·						
		- medium-dark green, coarse grained								
		- porphyritic - blue qtz-eyes								
		- chloritic throughout								
		- minor disseminated Py, Cpy								
		- entire unit can be divided into a number of phases								
		6.8 to 10.3 dark green coarse grained								
		10.3 to 11.2 medium green, medium grained								
		partially brecciated								
		11.2 to 15.6 medium green, medium grained								
		15.6 to 17.4 light green, medium grained	-							
		17.4 to 21.7 medium green, medium grained								
		21.7 to 24.1 light green, medium grained								·
		24.1 to 25.0 dark green, medium grained								
		25.0 to 28.4 medium green, medium grained								
		- entire unit has a weak foliation at 35-40° to C.A.								
		At 8.7 ½" carb vein at 35° to C.A., parallel to foliation								•
		LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROF	PERTY_Chest	er 53		НО	LE No	.Ches	-53 <u>-</u> (	6PAGE No1

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DESCRIPTION	SAMPLE	EDOM	) - TO	SAMPLE	L	ASS	-	•	AVERAGES AN
DESCRIPTION	No.	ICKON	\	LENGTH	Cu	Zn	Au	Ag	REMARKS
Con't					·				_
At 10.9 lt" brecciated zone at 50° to C.A., parallel to foliation									
light coloured fragments in a chloritic matrix									
At 15.7 8" granodiorite dyke at 45° to C.A., parallel to foliation							<u> </u>		
At 18.8 5" granodiorite dyke - hazy broken contacts				<u> </u>				<u> </u>	
GRANODIORITE	9172	30	35	5'	1	1	Tr	Tr	
- gradational - hazy contact with quartz diorite	9173	35	40	5'	0.	0.		Tr	
- light grey, medium grained	9174	40	43	3'	0.	0.	1	Tr	
- speckled - fibrous chlorite specks throughout									
- foliated at 50° to C.A.									
- occasional large blue quartz-eyes - not common							<u> </u>		
- sericitic	•								
- minor disseminated Py, Cpy throughout									
At 36.9 l-2" irregular felsic zone							<u> </u>		
At 37.2 ½-3/4" quartz-carb vein at 45° to C.A., parallel to foliation					ļ		<u> </u>		
From 39.6 to 43.0 strong foliation at 40° to C.A slight increase in							<u> </u>	<u> </u>	
mineralization							<del> </del>		
	01.75	43	<b>A</b> E		0.	0.			
CARBONATE-QUARTZ-CHLORITIC ZONE	31/2	43	45	۷.	49	010	-005	13	
80% carbonate in contorted bands							-	-	
carbonate does not effervese		1	- 1		1	ŧ	1 .	1	· 4
	Con't  At 10.9  1h" brecciated zone at 50° to C.A., parallel to foliation  light coloured fragments in a chloritic matrix  At 15.7  8" granodiorite dyke at 45° to C.A., parallel to foliation  At 18.8  5" granodiorite dyke - hazy broken contacts  GRANODIORITE  - gradational - hazy contact with quartz diorite  - light grey, medium grained  - speckled - fibrous chlorite specks throughout  - foliated at 50° to C.A.  - occasional large blue quartz-eyes - not common  - sericitic  - minor disseminated Py, Cpy throughout  At 36.9  1-2" irregular felsic zone  At 37.2  1-3/4" quartz-carb vein at 45° to C.A., parallel to foliation  From 39.6 to 43.0 strong foliation at 40° to C.A slight increase in mineralization  CARBONATE-QUARTZ-CHLORITIC ZONE	Con't  At 10.9 15" brecciated zone at 50° to C.A., parallel to foliation  light coloured fragments in a chloritic matrix  At 15.7 8" granodiorite dyke at 45° to C.A., parallel to foliation  At 18.8 5" granodiorite dyke - hazy broken contacts  GRANODIORITE 9173  - gradational - hazy contact with quartz diorite 9173  - light grey, medium grained 9174  - speckled - fibrous chlorite specks throughout - foliated at 50° to C.A.  - occasional large blue quartz-eyes - not common - sericitic - minor disseminated Py, Cpy throughout  At 36.9 1-2" irregular felsic zone At 37.2 5-3/4" quartz-carb vein at 45° to C.A., parallel to foliation From 39.6 to 43.0 strong foliation at 40° to C.A slight increase in mineralization 9175	Con't  At 10.9 14" brecciated zone at 50° to C.A., parallel to foliation  light coloured fragments in a chloritic matrix  At 15.7 8" granodiorite dyke at 45° to C.A., parallel to foliation  At 18.8 5" granodiorite dyke - hazy broken contacts  GRANODIORITE 9172 30  - gradational - hazy contact with quartz diorite 9173 35  - light grey, medium grained 9174 40  - speckled - fibrous chlorite specks throughout  - foliated at 50° to C.A.  - occasional large blue quartz-eyes - not common  - sericitic  - minor disseminated Py, Cpy throughout  At 36.9 1-2" irregular felsic zone  At 37.2 ½-3/4" quartz-carb vein at 45° to C.A., parallel to foliation  From 39.6 to 43.0 strong foliation at 40° to C.A slight increase in mineralization  CARBONATE-QUARTZ-CHLORITIC ZONE	Con't  At 10.9 14" brecciated zone at 50° to C.A., parallel to foliation  light coloured fragments in a chloritic matrix  At 15.7 8" granodiorite dyke at 45° to C.A., parallel to foliation  At 18.8 5" granodiorite dyke - hazy broken contacts  GRANODIORITE 9172 30 35  - gradational - hazy contact with quartz diorite 9173 35 40  - light grey, medium grained 9174 40 43  - speckled - fibrous chlorite specks throughout  - foliated at 50° to C.A.  - occasional large blue quartz-eyes - not common  - sericitic  - minor disseminated Py, Cpy throughout  At 36.9 1-2" irregular felsic zone  At 37.2 3-3/4" quartz-carb vein at 45° to C.A., parallel to foliation  From 39.6 to 43.0 strong foliation at 40° to C.A slight increase in mineralization  CARBONATE-QUARTZ-CHLORITIC ZONE 9175 43 45	Con't  At 10.9 14" brecciated zone at 50° to C.A., parallel to foliation  light coloured fragments in a chloritic matrix  At 15.7 8" granodiorite dyke at 45° to C.A., parallel to foliation  At 18.8 5" granodiorite dyke - hazy broken contacts  GRANODIORITE 9172 30 35 5'  grandational - hazy contact with quartz diorite 9173 35 40 5'  light grey, medium grained 9174 40 43 3'  speckled - fibrous chlorite specks throughout 9174 40 43 3'  respeckled - fibrous chlorite specks throughout 9174 40 43 3'  coccasional large blue quartz-eyes - not common 9174 40 40 40 40 40 40 40 40 40 40 40 40 40	Con't  At 10.9 1h" brecciated zone at 50° to C.A., parallel to foliation  light coloured fragments in a chloritic matrix  At 15.7 8" granodiorite dyke at 45° to C.A., parallel to foliation  At 18.8 5" granodiorite dyke - hazy broken contacts  GRANODIORITE 9172 30 35 5' 008  - gradational - hazy contact with quartz diorite 9173 35 40 5' 031  - light grey, medium grained 9174 40 43 3' 075  - speckled - fibrous chlorite specks throughout  - foliated at 50° to C.A.  - occasional large blue quartz-eyes - not common  - sericitic  - minor disseminated Py, Cpy throughout  At 36.9 1-2" irregular felsic zone  At 37.2 3-3/4" quartz-carb vein at 45° to C.A., parallel to foliation  From 39.6 to 43.0 strong foliation at 40° to C.A slight increase in  mineralization  CARBONATE-QUARTZ-CHLORITIC ZONE 9175 43 45 2' 0.4	DESCRIPTION	Con't At 10.9 1½" brecciated zone at 50° to C.A., parallel to foliation  light coloured fragments in a chloritic matrix At 15.7 8" granodiorite dyke at 45° to C.A., parallel to foliation  At 18.8 5" qranodiorite dyke - hazy broken contacts  GRANODIORITE 9172 30 35 5' 008 004 Tr - gradational - hazy contact with quartz diorite 9173 35 40 5' 031 003 Tr - light grey, medium grained 9174 40 43 3' 0.0 0 speckled - fibrous chlorite specks throughout - foliated at 50° to C.A occasional large blue quartz-eyes - not common - sericitic - minor disseminated Py, Cpy throughout  At 36.9 1-2" irregular felsic zone At 37.2 ½-3/4" quartz-carb vein at 45° to C.A., parallel to foliation  From 39.6 to 43.0 strong foliation at 40° to C.A slight increase in mineralization  CARBONATE-QUARTZ-CHLORITIC ZONE 9175 43 45 2' 0.0 0.000	DESCRIPTION  No. PROM-10 LENGTH Cu 2n Au Ag  Con't At 10.9 15" brecciated zone at 50° to C.A., parallel to foliation  light coloured fragments in a chloritic matrix  At 15.7 8" granodiorite dyke at 45° to C.A., parallel to foliation  At 18.8 5" granodiorite dyke - hazy broken contacts  GRANODIORITE  9172 30 35 5' 008 004 Tr Tr  - gradational - hazy contact with quartz diorite 9173 35 40 5' 031 003 Tr Tr  - light grey, medium grained 9174 40 43 3' 0.75 004  - speckled - fibrous chlorite specks throughout  - foliated at 50° to C.A.  - occasional large blue quartz-eyes - not common  - sericitic  - minor disseminated Py, Cpy throughout  At 36.9 1-2" irregular felsic zone At 37.2 5-3/4" quartz-carb vein at 45° to C.A. parallel to foliation  From 39.6 to 43.0 strong foliation at 40° to C.A slight increase in mineralization  CARBONATE-QUARTZ-CHLORITIC ZONE  1

FROM - TO	DECCRIPTION	SAMPLE	FDO	OT-A	SAMPLE			AYS		AVERAGES AND
-ROM - 10	DESCRIPTION	No.	FKON	n - 10	SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS
43.0 45.2	Con't		1							
	- minor quartz									
	- minor chlorite along edges of bands - 5% sulphides		-				-		<del> </del>	
45.2 50.1	QUARTZ DIORITE?	9176	45	50	5'	0.	0.	005	20	
	- strongly altered zone (Shear Zone?)	-								
	- dark grey-green to dark grey									
	- coarse grained									
	- porphyritic - very prominent large blue quartz-eyes									
	- strongly foliated at 30-35° to C.A.									
	Unit well mineralized throughout	-								
50.1 93.2	GRANODIORITE	9177	50	55	5'	0.	0.	. 02!	5 . 07	
	- light grey, medium grained									
	- minor chlorite - speckled throughout									
	- occasional small blue quartz-eyes									
	- foliated at 30° to C.A.									
	From 52.5 to 68.1 - ALTERED GRANODIORITE	9178	55	60	51	0. 016	0.	Tr	Tr	
	- light to dark blue grey									
	- medium grained									
	- foliated at 25-30° to C.A.									
	- Porphyritic - blue quartz-eyes									
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979	PROPERTY Chester	53_		<b>}</b>	HOLE	No.Ch	es-5	3-6 PA	GE No3_

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RÔM -	- 10	DESCRIPTION		SAMPLE	FROM	1-TO	SAMPLE LENGTH			AYS	, -	AVERAGES AN REMARKS
NO/W	10	DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	No.		· .	LENGTH	Cu	Zn	l Au	Aq	REMARKS
50.1	93.2	Con't								ļ	ļ	
		- disseminated	d sulphides throughout									
		- The minerali	ization continues as disseminations until 78.5 with some									
		disseminated P	Py at 83.5-85.0'				-					
		At 53.6	1-2" quartz-carbonate vein at 40° to C.A., parallel to									
			foliation	9179	60	63	3'	0.	0.	Tr	Tr	
		At 63.4	8" quartz-feldspar zone - irregular 10% sulphides	9180	63	66	3'	0.	0.		Tr	
		At 64.1	16" strongly sericitized unit, light grey						ļ 		ļ	
			often contorted									
		At 67.7	1/2-1" quartz vein at 65° to C.A., parallel to foliation	9181	66	68	2'	0.	0. 005	Tr	Tr	
		At 68.2	l" Quartz carbonate vein at 80° to C.A., perpendicular to	9182	68	70	2'		b. 002	Tr	Tr	
		_	foliation - 20% sulphides	9183	70	75	5'	030	002	Tr	Tr	
		At 74.8	$1-1\frac{1}{2}$ " quartz vein at 20° to C.A., parallel to foliation	9184	75	80	5'		0. 002	Tr	Tr	
			minor sulphides	9185	80	85	5 <b>'</b>	0.	0. 002	T	Tr	
_		At 85.0	1-13" carbonate vein at 30° to C.A., parallel to foliation						<u> </u>			
	93.2	END OF HOLE										
			Os Vella								<u> </u>	
							-	-	ļ			
-			Jan Wedener					-				•
		LOGGED		TY <u>Chester</u>	لــــــا 53			HOLF	Nort	l es-5	3-6 P	AGE No4

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PROP	ERTY Chester 53	PROJECT	#64	Texasgulf	CON	ITRAC	TOR _	Bradley	Bros	51	ART 5	/11/	<sup>79</sup> FINISH <u>7/</u>	11/79
HOLE	No. Ches-53-7 LAT	DEP	ELEV.	loc	AZ^	UE CETH	ANG	LE60°	_ DEP	TH_	76.2'	C#	ASING	
FROM - TO	O DESCRIPTION				SAMPLE No.	FROA	Λ-TO	SAMPLE LENGTH		ASS	AYS		AVERAGES REMAR	AND
0 3	18.6 GRANODIORITE					†	T		Cu	Zn_	Au	Ag		
		nt grey, medium grain	ned			  -								
	- speckled - fil	prous chlorite spots												
	- scattered smal	ll blue quartz-eyes												
	- weak foliation	at 45-50° to C.A.												
	- minor dissemin	nated sulphides from	16.0-18.6'						1 1 2 1 3 1 3			_		
18.6 52.9	GRANODIORITE								i di					
	- weak to modera	ite alteration												
	- medium blue-gr	rey, medium grained												
	- weak foliation	n at 45 <sup>0</sup> to C.A.				<u> </u>								
	- minor blue qua	irtz-eyes												· · · · · · · · · · · · · · · · · · ·
	- minor chlorite	<u> </u>		<del></del>		ļ							-	
	Mineralized from	n 47.3 to 52.9 as				_								
		(1) Po filled frac	ctures											
		(2) Disseminated 1	Py, Po and	Сру										
	At 21.1	z-l" quartz vein at	70° to C.A.	, parallel to foliat	ion									
	1	10% chlorite on conta	acts											
	At 23.7	" quartz vein at 40°	to C.A.,	parallel to foliation	on									
	LOGGED BY:	J. Der Weduwen DATE	. Nov. 1	979	PROPERTY _ Ches	ter 5	3		HOI	LE No	Ches	-53-	PAGE No	1

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FROM - TO	DECEMBRION		SAMPLE	EDOA	4 – TO	SAMPLE		ASS	AYS		AVERAGES AND
FROM = 10	DESCRIPTION		No.	FRON	w = 10	SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS
18.6 52.9	Con't			1							
		Coarse grained granodiorite									
		Porphyritic - white feldspars									
		Not mineralized									
		Light grey	9186	43	45	2'		0.	Tr	Tr	
	At 48.4	Carbonate zone at 45° to C.A., parallel to foliation				-					
		20% sulphides - predominately Po	9187	45	50	5'	0.	0.	Tr	. 02	
	At 52.0	'a" quartz vein at 50° to C.A., parallel to foliation									
		chloritic									
	At 52.1	2" quartz blob - very irregular							<u> </u>		
		20% sulphides									
			9187	50	53		0. 024	0. 004	Tr	Tr	
52.9 76.2	GRANODIORITE										
	- light grey to	medium blue-grey, becoming very light grey down hole									
	- medium grained										
	- a few, scatter	ed, small blue quartz-eyes						<u> </u>	<u> </u>		
	- sericitic									<u> </u>	
	- minor chloriti	c - not speckled								<u> </u>	
	- very minor Po	disseminations									
	At 61.2	الم quartz vein at 60° to C.A., parallel to foliation									
	At 62.5	y" quartz vein at 60° to C.A., parallel to foliation									
	At 66.5	quartz carbonate-chlorite vein at 65° to C.A.									
	LOGGED BY	: J. Der Weduwen DATE: Nov. 1979 PR	OPERTY_Chester	53		F	OLE	No.Cl	nes-	3 <u>-</u> 7P/	AGE No2

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ROM - TO	DESCRIPTION	SAMPLE	EDOM - 1	O SAMPLE LENGTH			AYS		AVERAGES ANI REMARKS
KOM = 10	DESCRIPTION	No.	rrom-	LENGTH	Cu	Zn	Au	Ag	REMARKS
52.9 76.2	Con't								
	At 66.5 (con't) perpendicular to foliation								
	At 67.4 3" quartz vein at 70° to C.A., perpendicular to foliation								
	30% sulphides, 5% biotite on contacts	9189	67 69	2'		0.	Tr	Tr	
	At 72.2 ½-3/4" quartz vein at 55° to C.A., perpendicular to foliation						-		
	At 75.9 3" quartz vein at 60° to C.A., parallel to foliation						-		
76.2	END OF HOLE								
	C. W.M.								
		-							
					To the second se				
	Q. Du Wider								•
<u>;                                    </u>		Chester	53		HOLE	No	Ches-	53-7/	AGE No3

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; PR	OPERTY	Chester 53         PROJECT #64         Texasguf           Ches-53-8         LAT.         DEP.         ELEV.         LOC. 29+13W; 7+691	CON	ĮŢŖ <b>Ą</b> C	ror <u>1</u>	Bradley B	ros	S	TART §	3/11/	79 FINISH <u>10/11/79</u>
н	DLE No	Ches-53-8 LAT DEP ELEV LOC. 29+13W; 7+69	N AZ. A	<del>2121</del> <del>2121</del>	ANG	LE	_ DE	PTH_	90.0	<u> </u>	ASING
FROM		DESCRIPTION	SAMPLE	EDO4	- 70	SAMPLE		ASS	SAYS		AVERAGES AND
IKOM	- 10 	DESCRIPTION	No.	rkOk	·- iO	SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS
0	25.9	QUARTZ DIORITE									
		- medium-dark green, coarse grained		<u> </u>							
		- porphyritic - blue quartz-eyes									
		- 20% chlorite - fine grained									
		- becomes gradually lighter in colour from 20.0 until 25.9 is a light green									
		- at contact have a weak foliation at 55° to C.A.									
		At 6.7 \frac{1}{2}-1" carb vein at 150 to C.A., parallel to foliation	9190	6.5	8.0	1.5'	0.	0.	Tr	Tr	
		minor Py, quite irregular									
		At 9.5 2" carb vein at 45° to C.A., parallel to foliation		<u> </u>							
		minor chlorite									
		At 16.7 \frac{1}{2}" carb vein at 45° to C.A., parallel to foliation									
		minor chlorite		<u> </u>							
		At 17.3 quartz vein at 75° to C.A., perpendicular to foliation		<u> </u>			<u></u>		ļ		
		At 25.6 ½" quartz vein at 50° to C.A., parallel to foliation	9191	25	30	5'	0. 018	0.	Tr	Tr	
		barren					ļ <u>.</u>	<u> </u>			
25.9	78.1	GRANODIORITE	9192	30	35	5'	0. 058	0. 002	Tr	Tr	
		- light grey, medium grained							<u> </u>		
		- scattered blue quartz-eyes									
		LOGGED BY:J. Der Weduwen DATE: Nov. 1979 PROPE	ERTY Chest	er 53			НС	LE N	Çhes-	-53-8	PAGE No1

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ROM - TO	DESCRIPTION	SAMPLE	EDOA	A - TO	SAMPLE LENGTH		ASS	AYS	+	AVERAGES AN
KOM - 10	DESCRIPTION	No.	JI KON	1	LENGTH	Cu	Zn	Au	Ag	REMARKS
25.9 78.1	Con't		<u> </u>							
	-weakly sericitized									
	- non altered sections - speckled - 5% fibrous chlorite									
	- minor Py									
	- weakly foliated at 35-40° to C.A.									
	Altered Sections									
	- Blue-grey colour		1					ļ		
	- mineralized .		<u> </u>						ļ	
	- distinctive blue quartz-eyes									,,,,,
	From (1) 27.4 to 35.0		ļ 						ļ	
	(2) 46.8 to 48.5		ļ							
	(3) 51.3 to 52.3						·			
	(4) 53.0 to 65.1									
	(5) 73.6 to 78.1									
	At 28.2 3" quartz vein at 40° to C.A, parallel to foliation									
	minor Py									
	At 29.7 ½-½" quartz vein at 60° to C.A., perpendicular to foliat	ion					-			
	minor Py									
	At 30.2 % quartz vein at 30° to C.A., perpendicular to foliation	n					·			
	barren									
· .	At 33.1 ½-1" quartz-carbonate vein at 40° to C.A., parallel to fe	oli-								
	ation, 5% Cpy, Py, Po									
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PRO	OPERTY Chester	53		<b>}</b>	IOLE I	No.Ch	es-53	3-8 p	AGE No2

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FROM -	TO	DESCRIPTION		SAMPLE	FROM	1-TO	SAMPLE LENGTH		ASS	AYS		AVERAGES AN
		DESCRIPTION		No.	1	,	LENGTH	Cu	<u>  Zn</u>	<u>  Au</u>	Ag	REMARKS
25.9 7	8.1	Con't										
		At 34.1	$\frac{1}{2}$ " carbonate vein at 50° to C.A., parallel to foliation				ē					
			minor Py									
		At 34.2	½-1" carbonate vein at 50° to C.A., parallel to foliation									
		***************************************	minor Py	9193	35	40	5!		0.	Tr	Tx	
		At 41.6	الم guartz vein at 25° to C.A., perpendicular to foliation									
			barren	9194	40	45	5 <b>'</b>		0.	Tr	Tr	
		At 45.6	's" carbonate zone at 40° to C.A., perpendicular to foliation	9195	45	47	21	0.	0.	Tr		
			minor Py	91.91	1.43	-4,		VZJ	1003			
		At 47.1	in quartz vein at 50° to C.A., parallel to foliation	9196	47	48.5	1.5'		0.	005	Tr	
			50-60% sulphides	1								
		At 47.3	12-1" quartz vein at 40° to C.A., parallel to foliation						•			
			30% sulphides	9197	48.5	51.5	3*	0. 017	0.	Tr	Tr	
	·	At 51.8	יל-ב" quartz zone at $40^{\circ}$ to C.A., parallel to foliation									
			50% sulphides	<u> </u>								
		At 52.3	3" quartz-carbonate vein at 80° to C.A., perpendicular									
			to_foliation = 10% sulphides	9198	51.5	53	1.5'	0.	0. 002	005	Tr	
		At 54.4	أواءً" quartz-vein at 45° to C.A., perpendicular to foliation	9199	53	58	5'	043	002	005	Tr	
			30% sulphides	9200	58	62	4'	0. 018	0. 002	Tr	Tr	
		54.0	1-1" Carbonate zone at 40° to C.A., parallel to foliation	9201	62	65	3'	0.	0. 011	Tr	ጥታ	
			10% sulphides	9202	65	68	3'	0.	0. 011	i	Tr	
		63.4	½-½" carbonate-chlorite zone at 15° to C.A., parallel to	9203	68	70	2'	0. 025	0. 004	Tr	Tr	
			BY: J. Der Weduwen DATE: Nov. 1979 PROPERTY	Y Chester	53		}				3-8 <sub>p/</sub>	GE No3

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ROM - TO	DESCRIPTION	SAMPLE	FROM	ot-N	SAMPLE LENGTH		ASS	AYS		AVERAGES AN REMARKS
		No.	1	·· · · · · · · · · · · · · · · · · · ·	CEITOIII			Au	Ag	REMARKS
25.9 78.1	Con't Con't	9304	70_	73	3'	885	805	Tr	Tr	
	63.4 (con't) foliation, 10% Py									
		9305	73	75	2'		006	Tr	Tr	
78.1 90.0	QUARTZ DIORITE									
	- dark green, coarse grained									
	- foliated at 30° to C.A.								<u> </u>	
	- porphyritic - large blue quartz-eyes	·		ļ				ļ	<u> </u>	
	- massive								ļ	
	At 83.9 75" granodiorite dyke		<u> </u>		-					
			ļ				<u> </u>		ļ	
	At 84.6 3" granodiorite dyke									
	very irregular					ļ				
	At 89.1 1" granodiorite dyke at 150 to C.A. parallel to foliation									
90.0	END OF HOLE									
									1	
	Done Walls							,		
	P. Der Wedener									
	J. Don W									
<u></u>	LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROPE	RTY Chester	- 53	-		HOLE	Noch	es-5	3-8 P/	AGE No4_

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P- 451640 P- 461639 P-4923 59 P-492360

> TEXASGULF INC. DIAMOND DRILLING
> CHESTER TWP. #82-80

SCALE: 1" TO 400' DRAWN BY: D.V. MULLEN

PROPERT	Y Chester 53 PROJECT #64 Texasguif	CON	1TRACTOR	Bradley B	ros START 2	2/10/7\$INISH_25/10/79
HOLE N	O. <u>Ches-53-1</u> LAT DEP ELEV LOC. <u>30=25W; 1+75</u> DESCRIPTION			O SAMPLE LENGTH	ASSAYS	CASING AVERAGES AND REMARKS
0 25	QUARTZ DIORITE:					
	Light to medium green,					
	fine to course grained - can be divided into several distinct phases					
	0 6.0 med. grained, dark green					
	6.0 10.4 coarse grained, dark green					
	10.4 16.8 coarse grained, light green					
	16.8 22.3 med. grained, medium green					
	22.3 25.0 fine grained, med. green					
	Porphyritic - blue qtz-eyes					
	- very distinctive in Cs. grained sections					
	Minor Py					
	Minor Mt - disseminated throughout					·
	- weakly magnetic					
	Weakly Carbonated					
	Weakly Foliated at 45°-50° to C.A.					
	At 8.9'- 1½" Granodiorite Dyke at 80° to C.A., grey, medium grained					
	From 9.9 -10.4' Qtz-feldspar rich portion					
	At 16.8' - 14" Granodiorite dyke					
	upper contact at 15° to C.A.					
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROP	ERTYChes	ster 53		HOLE No. Ches	-53-1PAGE No1

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ED\\A	- то	DESCRIPTION	SAMPLE	FRO	w – TO	SAMPLE LENGTH			SAYS		AVERAGES AN
FROM	- 10	DESCRIPTION	No.	110	vi 10	LENGTH	Cu	Zn	Au	Ag	REMARKS
0	25	Con't		1							
		lower contact at 70° to C.A.									
		At 23.9' 12" Granodiorite dyke, grey, medium green, irregular contacts		-				-			
25	46.2	GRANODIORITE:									
		- light to medium grey, medium grained									
		- 5% chlorite as fibrous masses giving rock a speckled appearance			<u> </u>						
		- some pale blue Qtz-eyes									
		- minor Py and Mt									
<u>-</u>		At 41.0' 1" gtz-carb vein - irregular and branching 5% magnetite along					<u> </u>				
		contacts									
			9124	45	50	5'	32	0.	.005	.09	
46.2	70.7	ALTERED GRANODIORITE:	9125	50	55	5'	0. 82	0.	.005	.26	
		- medium blue-grey colour	9126	55	60	5'	0. 35	0. 009	.005	.11	
		- medium grained	9127	60	65	5'	0. 24	0. 009	.003	.10	
		- porphyritic - large blue Qtz-eyes	9128	65	70	5'	0.	0.	.003	.04	
		- 10% chlorite, very fine grained and evenly distributed throughout core									
		- moderately sericitic									
		This is the rock type that hosts the sulphides as									
		(1) fine grained disseminations									
		(2) fracture fillings parallel to foliation			<u> </u>						
		At 48.6' 1" Qtz vein - 30-40% Cpy, Py, Po									
		LOGGED BY: J. Der Weduwen DATE: Nov, 1979 PROPERT	Y Cheste	r 53			HOLE	No.C	hes-5	3-1 p/	GE No2

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FROM - TO	DESCRIPTION	SAMPLE	EDO	4 - TO	SAMPLE LENGTH		ASS			AVERAGES AN
FROM = 10	DESCRIPTION	No.	rkon	1	LENGTH	Cu	Zn	Au	Ag	REMARKS
46.2 70.7	Con't									
	From 48.6 to 57.0' numerous fractures filled with sulphides									
	- sulphides disseminated to 70.7'									
	At 66.9' 3" Qtz vein at 65° to C.A white, barren									
	At 68.8' ½" Qtz vein at 45° to C.A 15% sulphides	-								
70.7 115.8	GRANODIORITE:									
	- light grey, medium grained									
	- slightly porphyritic - blue Qtz-eyes									
	- speckled - 5% chlorite as fibrous masses	9129	80.	81.	1'		0. 002	Tr	Tr	
	- slightly carbonated									
	- sericitic									
	- minor Py									
	- minor sulphides disseminated through core until 89.9'									
	- some fractures filled with sulphides, not consistent									
	At 79.3' 3" Qtz-carb vein at 70° to C.A., barren, minor tourmaline									
	At 80.9' 3" Qtz vein at 50° to C.A., 10% sulphides, minor carbonate				,					
	At 83.6' 2" Otz-carb vein at 80°, 20% sulphides, minor chlorite	9130	83	84	1'	045	002	Tr	.02	
	From 89.9 to 90.7' Altered granodiorite									
	From 92.3 to 93.9' Altered granodiorite			<u> </u>						
	- blue grey colour, medium grained									
	- porphyritic - blue Qtz-eyes									
	LOGGED BY: J. Der Weduwen DATE: Nov, 1979 PROPE	RTY_Chester	53	•	}	HOLF	NoChe	es-53	-1 p/	GE No3

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SCRIPTION	SAMPLE	EDO.	4-TO	SAMPLE LENGTH		ASS	AYS		AVERAGES AN
SCRIPTION	No.	rkon	, - 10	LENGTH	Cu	Zn	Au	Ag	REMARKS
t		1							
	9131	90	95	5'		0.	003	.13	
- good disseminated sulphides	9131	190	193		34	1007	1.00.	1.13	
4.8' Qtz-carb vein at 55° to C.A 10% sulphides		╂			0.	0.	ļ		
to 95.4' Altered granodiorite	9132	95	97	2'	27	008	.003	.13	
to 99.0' Altered granodiorite	9133	97	98	1'	0. 84 0.	0. 019	.005	.31	
- blue-grey colour, medium grained	9134	98	100	2'	0.	0.	Nil		
- porphyritic - blue Qtz-eyes									
- disseminated sulphides									
06.5' 5 to 1" Otz-carb vein at 70° to C.A 5% sulphides				,			ļ		
12.8' ½" Qtz-carb stringers at 60° to C.A 2% sulphides				-					
OF HOLE									
·									·
		-					ļ		
									4-Marie - Maleston - Joseph -
g. Der Weduren 10 1 81 M									
LOGGED	9 Der Weduwen DATE: Nov. 1979 PR	9 Der Weduwen DATE: Nov. 1979 PROPERTY Chester		BY: J. Der Weduwen DATE: Nov. 1979 PROPERTY Chester 53	BY: J. Der Weduwen DATE: Nov. 1979 PROPERTY Chester 53	9 Der Weduwen DATE: Nov. 1979 PROPERTY Chester 53 HOLE	BY: J. Der Weduwen DATE: Nov. 1979 PROPERTY Chester 53 HOLE Noch	9 Der Weduwen DATE: Nov. 1979 PROPERTY Chester 53 HOLE NoChes-53	9 Der Weduwen DATE: Nov. 1979 PROPERTY Chester 53 HOLE Noches-53-1 PA

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r PR	OPERTY		CON	ITRAC	TOR _	Bradley B	ros	S	TART	30/10	/79FINISH 1/11/79
		<u>Ches-53-4</u> LAT DEP ELEV LOC. <u>L35+40W;0+</u>	-95N AZ	KE Vonth	ANG	LE55°	DE	РТН_	99.4	<u>'</u> C	ASING6.5'
FROM	- 10	DESCRIPTION	SAMPLE	EDO	4 - TO	SAMPLE		ASS	SAYS		AVERAGES AND
TROM	- 10	DESCRIPTION	No.	FROM	Λ-10	SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS
0	6.5	OVERBURDEN:									
			_	<u> </u>			0.	0.	ļ		
6.5	19.8	GRANODIORITE:	9157	6.5	10	3.5'	067		Tr	.02	
		- light to medium grey, medium grained									
		- porphyritic - blue Qtz eyes	9158	10	15	5'		0.	Tr	Tr	
		- minor chlorite		<u> </u>							
		- sericitic, foliated at 40-45°, weakly minor sulphides		<u> </u>							
		throughout									
		At 14.2' 5-1" Otz-carb zone at 30° to C.A. parallel							ļ		
			9159	15	19.8	4.8'		0.	Tr	Tr	
19.8	35.1	DIABASE:									
		- black, fine grained		<u> </u>							
		- equigranular		<u> </u>				<u> </u>	ļ		
		- fractured in places - carbonate filled, very minor Py	·	<u> </u>			<u> </u>				
		Upper contact at 10° to C.A., perpendicular to fol.		ļ							
		Lower contact at 25° to C.A., perpendicular to fol.									
										·	
35.1	36.2	GRANODIORITE:	9160	35	36.2	1.2'	0.	0.	Tr	.02	
		- similar to granodiorite at 6.5'									
		LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROP	ERTY <u>Chest</u>	er 53	3		НО	LE No	Ches	s-53 <b>-</b>	<sup>4</sup> PAGE No. <u>1</u>

ROM - TO	DESCRIPT	IONI	SAMPLE	EDO.	4 - TO	SAMPLE LENGTH			AYS		AVERAGES AN
KOM - 10	DESCRIPT	ION	No.	1 70	w - 10	LENGTH	Cu	Zn	Au	Ag	REMARKS
35.1 36.2	Con't			1							
		- slightly altered									
	A STATE OF THE STA	- disseminated sulphides throughout									
	At 35.5	1/8 to 4" fracture at 35° to C.A., perpendicular to fol.		<u> </u>							
		5-10% arsenopyrite			ļ						
36.2 37.2	DIABASE:									-	
		- black, fine grained, equigranular									
		- upper contact at 50° to C.A., parallel to fol.									
		- lower contact at 30° to C.A., perpendicular to fol.		<u> </u>					ļ		
										-	
37.2 54.7	GRANODIOR	ITE:		<u> </u>						<u> </u>	
		- light to medium grey, medium grained	9161	41_	42		0. 007	0. 002	Tr	Tr	
		- speckled - chlorite as fibrous masses							ļ		
		- porphyritic - scattered blue Otz-eyes		<u> </u>					<u> </u>		
		- moderately sericitic		<u> </u>							
	At 39.0	1" Carb-chlorite zone at 60° to C.A., perpendicular to fol.		ļ							
	At 41.6	3/4-12" Otz-carb vein at 85° to C.A., perpendicular to fol.									
		2-5% Py, Po.		ļ							
	At 42.6	½" Qtz vein at 55° to C.A., parallel to fol.		<u> </u>					ļ		
		chlorite on contacts, barren		ļ							
	At 48.2	9" zone of strong sericitization						L			
	LOGGI	ED BY: J. Der Weduwen DATE: Nov. 1979 PROPE	RTY <u>Chester</u>	53			OLE	No. C	hes-	3-4PA	AGE No2_

ROM - TO	DESCRIPTION	SAMPLE	FROM - TO	SAMPLE LENGTH	<b>—</b>	ASS		1	AVERAGES AN
	DESCRIPTION	No.	1	LENGTH	Cul	Zn	l Au	Aq_	KEMAKKS
54.7 56.4	MAFIC ZENOLITH:								
	- light to dark green								
	- fine grained								
	- both sericitic and chloritic								
	- foliated at 70° to C.A., often contorted							<u> </u>	
	At 55.5 l½" granodiorite dyke at 45° to C.A., parallel								
	to_foliation							<u> </u>	
	· · · · · · · · · · · · · · · · · · ·							<u> </u>	
56.4 57.5	Granodiorite:							ļ	
	- light grey, medium grained								
	- speckled - fibrous chlorite scattered throughout core						ļ		
	- weak sericitization	V-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1						<u> </u>	
	- disseminated Py throughout								
	At 57.2' ½" Carb-chlorite-sericite zone at 70° to C.A.							<u> </u>	
	parallel to foliation.	· · · · · · · · · · · · · · · · · · ·		<u>.</u>				-	
				<u> </u>				ļ <u> </u>	
7.5 58.3	MAFIC ZENOLITH:						-	ļ	
	- medium green, fine grained							ļ	
	- foliated at 65° to C.A.								
	- contacts very irregular and hazy			ļ					
				<u> </u>		·	ļ		
	LOGGED BY: J. Der Weduwen DATE: Nov. 1979	PROPERTY Chester	53		HOLE I	No	hes-	53-4	AGE No3

FROM - TO	5	DESCRIPTION	SAMPLE	FROM	A-TO	SAMPLE			AYS	1	AVERAGES AN
NOM 10		DESCRIPTION	No.	1	1	LENGTH	Cu	l Zn	Au	Ag	REMARKS
58,3 82	2.8 G	RANODIORITE:		ļ				ļ			
	_	light grey, medium grained									
	-	porphyritic - occasional blue Qtz-eyes									
		speckled - fibrous chlorite						ļ			
		disseminated Py until 79.4'.									
	_	moderate sericitization									
	s	everal altered zones									
:		blue-grey colour, medium grained					<del> </del>		ļ		
		large blue Qtz-eyes stand out									
!	A	t 63.3 to 63.7									
		65.0 to 66.3									
	-	66.8 to 67.4									
		69.7 to 82.8									
		from 76.2 to 82.8', very strongly altered - very low Qtz-eyes						!			
	_	foliated at 55° to C.A.	9162	58.5	60	1.5'	0.	0.	Tr	Tr	
	A	t 60.5' 1" chlorite rich zone at 60° to C.A., parallel to Foliation									
!		2% sulphides	9163	60	65	5*	0. 23	0.	.005	. 05	
	At	ב 65.9' לב-1" Qtz-carb-chlorite zone at 65° to C.A., parallel to foliation									
		20% sulphides	9164	65	70	5'	896	802	Tr	. 02	
	At	70.9' 1-15" Quartz vein at 65° to C.A., perpendicular to foliation									
		5% sulphides									
	A	t 72.6' l'm' quartz vein at 55° to C.A., perpendicular to foliation									
		LOGGED BY: J. Der Weduwen DATE: Nov. 1979 PROPERTY	Chester	53		}	HOLE	No. C	hes-	3-4 <sub>P/</sub>	GE No4

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FROM -	- TO	DESCRIPTION	ON	SAMPLE	EPOA	4-TO	SAMPLE LENGTH		ASS	AYS		AVERAGES AN
I KOM	- 10	DESCRIPTION	OIN	No.	JI KON	1	LENGTH	Cu	Zn_	Au	Ag	REMARKS
58.3	82.8	Con't			<u> </u>							
		72.6(Con't)	30% sulphides along contact					<u></u>				
		At 73.4	$1/4$ - 1" Qtz vein at $40^{\circ}$ to C.A., parallel to foliation									
			10-15% sulphides									
		At 74.3	1/4" Qtz vein at 60° to C.A., irregular, 40% sulphides		ļ			<u> </u>				
		At 74.7	2-3" Otz blob at ≈ 60°, perpendicular to foliation									
			20-25% sulphides	9165	70	75	5'	0.	0.	. 015	. 25	
		At 75.6	לֵּ" Q.C. zone at 65° to C.A., parallel to foliation									
			10% sulphides	:								
		At 77.2	4-5" Q.C. zone at 75° to C.A., parrallel to foliation, barren	9166	75	80	5'	0. 60	0. 010	.015	.14	
		At 80.3	1" Qtz vein at 75° to C.A., parallel to foliation, barren									
		At 80.6	3/4" Qtz vein at 75° to C.A., parallel to foliation, barren									
32.8	99.4	QUARTZ DIC	PRITE:	9167	80	B2.5	2.5'	0. 017	0.	Tr	Tr	
			Dark grey-green, coarse grained									
			Porphyritic - white quartz surrounded by rim of creamy feldspars									
İ			Minor epidote throughout									
		At 86.0	l" Carb-epidote zone at 35°, perpendicular to foliation									
		At 90.0	2½" Qtz-carb-epidote zone - blotchy									
		At 94.0	3" Otz-carb vein at 75° to C.A., parallel to foliation	-								
		At 94.9	2" granodiorite dyke at 80° to C.A., parallel to foliation					ļ				
			D BY: J. Der Weduwen DATE: Nov. 1979 PROPERTY	Chaster	52			<u> </u>	Ch		3-4	AGE No5_

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FROM -	70	DECONITION	SAMPLE	EDOM -	-TO	SAMPLE		ASS	AYS		AVERAGES AN
-	10	DESCRIPTION	No.	FROM .	-10	SAMPLE LENGTH	Cu	Zn	Au	Ag	AVERAGES AN REMARKS
32.8	99.4	Con't									
		At 98.7 2" Qtz vein at 60° to C.A., parallel to foliation									
							1				
	99.4	END OF HOLE	···							<u> </u>	
								ļ		ļ	
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						Page	·		ļ		
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		9 Der Wedmen									
		LOGGED BY: J. Der Weduwen DATE: Nov. 1979	PROPERTY Chester	<u> </u>	1		IOI F	No co	hoc: '	52 A D	AGE No6

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, PF	ROPERTY	Chester 53 PROJECT #64	_ <b>T</b> e	exasgulf	CON	ITRACT	OR _	Bradley B	ros	S1	TART 1	1/11/	<u>/7</u> 9FINISH <u>13/11/79</u>
l .		<u>Ches-53-9</u> LAT DEP			_ AZ		ANG	LE <u>-60°</u>	_ DEP	тн_	99.5	_ CA	SING
FROM	<b>-</b> TO	DESCRIPTION			SAMPLE No.	FROM	-10	SAMPLE LENGTH	Cu	ASS Zn	AYS Au	Ag	AVERAGES AND REMARKS
0	1.2	CASING											
		<del></del>				1							
1.2	8.3	QUARTZ DIORITE											
		- dark green, coarse grained											
		- porphyritic - large blue quartz-eyes											
		- minor Mt. cubes throughout											
		- minor Py											
		- moderately carbonated											
	·	At 3.4 $\frac{1}{4}-\frac{1}{2}$ carbonate vein at 2	5° to C.A.,	crossing to foliation									
8.3	23.0	GRANODIORITE											
		- light to medium green, medium grained	·										
		_ slightly speckled - fibrous chlorite											
		- occasional small blue quartz-eyes											
		- minor Py, Cpy						· · · · · · · · · · · · · · · · · · ·					
		- weak foliation at 45-50° to C.A.											
		- no altered or sulphide zones								-			
		At 13.7 2½" quartz vein qt 75° to	C.A.										
		very irregular, barren											
		LOGGED BY: I Der Weduwen DATE: No	ov. 1979	PROPER	TY _Ches	ter 5	3		НОІ	LE No	Ches-	53-9	PAGE No

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	+ 1+ + + + + + + + + + + + + + + + + +				SAMPLE						AVERAGES	Al
FROM - TO	DESCRIPTIO	NC NC			No.	FROM-TO	LENGTH	Cu	Zn	Au Ag	AVERAGES REMARK	เร
8.3 23.	Con't										_	
	At 15.4	1/8-1/2" carb zon	ne at 25° to C.A., perpendicu	lar to foliation								
		minor chlorite										
	At 20.5	1/8" quartz vein	at 25° to C.A., perpendicula	r to foliation								
		5% sulphides										
	At 20.6	الم" quartz vein at	t 40° to C.A., perpendicular	to foliation	-M-1-1							
1	1	l% sulphides			<del></del>							
			·		-							
23.0 51.	7 QUARTZ DIORI	TE										
	- medium to d	dark green										
	- porphyritic	c blue quartz-eyes										
	- minor Py, F	Ро										
	- minor magne	etite			-		·					
	Occurs in dis	stinct phases										
		23.0 to 27.3	medium_grained, dark_gre	en								
		27.3 to 30.0	coarse grained, dark gre	en								
		30.0 to 42.0	coarse grained, light gr	een								
			splotchy - clear quartz-	eyes								
			surrounded by white felds	spars						•		
			- unit epidotized									
		42.0 to 51.7	coarse grained, medium gr	reen						-		
ļ	At 27.8	la combonada unio	at 45° to C.A., perpendicula			1				l		

FROM - TO	DESCRIPTION	7	SAMPLE No.	FROM	A-TO	SAMPLE LENGTH		ASS	AYS	+	AVERAGES	ANI
23.0 51.7	Con't		No.			LENGTH	Cu	Zn	Au.	Ag	REMARK	5
23.0 31.7		^		1	ļ							
	At 29.4	1-1" carbonate vein at 65° to C.A., parallel to foliation	<del> </del>	1					ļ	ļ		
	At 33.7	2-2½" epidote rich zone at 80° to C.A., perpendicular to	<u> </u>	ļ	ļ				-	<u> </u>		
		foliation - several large quartz-eyes	<u> </u>				<u> </u>					
	At 35.6	1" epidote zone at 65° to C.A.		-								<u>. —</u> .
	· · · · · · · · · · · · · · · · · · ·	minor quartz-eyes, upper contact sharp								<u> </u>		
		lower contact hazy										
	At 36.3	3/4" epidote-carbonate zone at 30° to C.A., perpendicular to								<u> </u>		
	Market Company	foliation										
	At 37.5	$3/4$ " epidote zone at $50^{\circ}$ to C.A., parallel to foliation										
	At 44.1	'y" carbonate zone at 35° to C.A., parallel to foliation										
	At 45.5	½-3/4" carbonate zone at 50° to C.A., parallel to foliation										
		minor Py							<u> </u>			
	At 48.4	$\frac{1}{2}$ " quartz carbonate vein at 60 $^{\circ}$ to C.A., perpendicular to										
		foliation		ļ					ļ	<u> </u>		
									<del> </del>			
51.7 99.5	GRANODIORITE	· · · · · · · · · · · · · · · · · · ·		-								
	light to med	lium grey, medium grained -	<del> </del>									
	- unaltered zo	ones - speckled, fibrous chlorite	<del> </del>									
	·	- moderately sericitized										
		- minor Py, Po										
		- scattered blue quartz-eyes										
	LOGGED	BY:J. Der Weduwen DATE: Nov. 1979 PROPERTY	Chester	53		}	HOLE	No. C	hes-	3-9P	AGE No	2

FROM - TO	DESCRIPTION	SAMPLE	EDO	4 TO	SAMPLE	ASSAYS			<b>-</b>	AVERAGES	AND
	DESCRIPTION	No.	FKO	η-10 Τ	SAMPLE LENGTH	Cu	Zn	Au	Ag	REMARKS	S
51.7 99.5	Con't		1								
	- altered zones - blue grey, medium grained			ļ							
	distinct blue quartz-eyes			<u> </u>		<u> </u>					
	from (1) 51.7 to 55					ļ					
	(2) 55.5 to 56.1			<u> </u>							
	(3) 57.3 to 57.7										
	(4) 68.3 to 80.0										
	These altered zones host the main mineralized zones.										
	At 53.4 ½" carb vein at 75° to C.A., parallel to foliation	9306	52	55	3'	1	0.	Tr	. 02		
	20% graphite, 5% Py										
	At 57.4 ½" quartz vein at 50° to C.A., parallel to foliation										
	chloritic, 10% sulphides										
	At 60.2 5" carb-chlorite zone at 80° to C.A., parallel to foliation	9307	55	60	5'	(	0. 003	Tr	Tr		
	20% sulphides										
	At 61.5 ½" carb-chlorite zone at 70° to C.A., parallel to foliation	9308	60	65	5'		0.	Tr	Tr		
	10% sulphides										
	At 66.5 4" quartz zone at 65° to C.A., perpendicular to foliation	9309	65	60	21		0. 003	Tr	Tr		
	very irregular, 5% sulphides	3307	03								
	At 67.0 ½" Quartz vein at 80° to C.A., perpendicular to foliation										
	barren										
	At 68.7 3"-3/4" quartz voin at 65° to C.A., parallel to foliation										
-	30-40% Py, Po	9310	68	70	2'	0. 26	0. 004	Tr	. 05		
	LOGGED BY: J_Der Weduwen DATE: Nov. 1979 PR	OPERTY		1						AGE No	

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OT - MOS	DESCRIPTION	ON.	SAMPLE	FPC	M – TO	SAMPLE LENGTH	ASSAYS				AVERAGES AN
CM - 10	DESCRIPTION			1 70	, ,	LENGTH	Cu	Zn	Au	<u>lAg</u>	REMARKS
1.7 99.5	Con't										
	At 69.8	4" quartz vein at 65° to C.A., parallel to foliation,									
		20% sulphides	9311	70	75	5'	0. 29	0. 007	.00	.09	
	At 71.8	رِّ quartz vein at 70° to C.A., parallel to foliation						<u> </u>			
		chloritic, 30% sulphides									
	At 73.5	$\frac{1}{2}$ " quartz vein at 35 $^{\circ}$ to C.A., parallel to foliation									
		10% sulphides	9312	75	80	5'		0. 014	_01_	13	
	At 82.3	الماء الماء									
		foliation - minor sulphides									
	At 82.9	quartz-carbonate vein at 50° to C.A., parallel to foliation	9313	80	85	5'	0. 030	0. 002	Tr	Tr	
		chloritic	9314	85	89	4'		0. 002 0.	Tr	- 02	
	At 91.7	나 quartz vein at 70° to C.A., parallel to foliation	9315	89	91	2'	013	002	Tr	Tr	
		minor sulphides	9316	91	92	1."		0. 002	Tr	Tr	
			9317	92	95	3 *		0. 002	Tr	Tr	
99.5	END OF HOLE		9318	95	99.5	4.5'		0. 002	Tr	Tr	
						·					
									ļ	<u> </u>	
		g. In wedman Del Malla									
	LOGGE	BY: J. Der Weduwen DATE: Nov. 1979 PROPERT	Y <u>Cheste</u>	er 53			OLE	No. C	hes-	53-9P/	AGE No5

mandring of grangement and the member member decay to the first of th