

## RED-CHRIS PROPERTY



Ealue Lake area, Liard Mining Division

Lat. 57° 45' N, Long. 129° 45' W

104 H/12W

Claims:

Red 4-34; SUS 79, 81, 83

Owner:

Silver Standard Mines Ltd., N.P.L.

Claims:

CHRIS 1-24, MONEY 1-30, 32, 34, 36, 38, 40-59, 61, 63

Owner:

Great Plains Development Co. of Canada Ltd.

Claims:

RAF 1-6; COUGAR 1-8 Fractions; SUS NORTH, SOUTH, WEST, CHRIS NORTH; RED NORTH, SOUTH; FUN: VIRGO; CAPRICORN: TAURUS; PISCES; CANCER; SAGITTARIUS; LIBRA; GEMINI; SCORPIO; LEO; AQUARIUS; ARIES

Owner:

Texasgulf Canada Ltd.

Operator:

Texasgulf Inc.

Report by:

C.H.B. Leitch, B.A.Sc., M. Phil. J.M. Newell, P. Eng.

October, 1976

Vancouver, B.C.

104H/12W

MINERAL RECOURS OF BRANCH
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### TABLE OF CONTENTS

Summary

Historical Introduction

Location, Access and Terrain

Claim Status

Revised Geology

Work Completed - 1976

Geological Mapping

Topographic Surveying

MINERAL CLAIM

**Grid Cutting** 

Geophysical Survey

MAP #2

Diamond Drilling

AUCATION LINE AND

Overburden Drilling

DOILL HOLE SURVEY

## TABLE OF CONTENTS - (CONT'D.)

APPENDIX A:

Expenditure Statements and Application

of Costs, Red-Chris Option - 1976

APPENDIX B:

Diamond Drill Contract

APPENDIX C:

Diamond Drill Core Logs

APPENDIX D:

Diamond Drilling Summary - 1976

APPENDIX E:

Statement of Qualifications

J. R. Forsythe

C. H. B. Leitch

T. M. Elliot

## LIST OF MAPS AND ILLUSTRATIONS

FIG. 1	Location Map, RED-CHRIS Property	following page 2
FIG. 2	Grouping Sketch, RED-CHRIS Property	following page 3
FIG. 3	Location Line & Drill Hole Survey	
	RED-CHRIS Property(in pocket)	following report

#### SUMMARY

This report summarizes the exploration work done by Texasgulf Inc. during 1976 on the RED-CHRIS property in the Ealue Lake area of Liard Mining Division in northwest British Columbia (N.T.S.-104H/12W).

A portion of the work was claimed for assessment work credit on applications dated August 5th and August 27th, 1976.

#### Historical Introduction

Although mineral showings have been known for many years in the area between Ealue and Kluea Lakes, the present phase of activity began in 1969, when Great Plains Development Co. of Canada Ltd. located the CHRIS and MONEY claims. In that year, geological mapping and geochemical surveys were undertaken, and in the following season buildozer trenching and two diamond drill holes totalling 1,015 feet were completed. A further eight diamond drill holes totalling 3,017 feet were put down in 1972.

The adjoining property to the east, comprising the RED and SUS claims, was located by Silver Standard Mines Ltd. in 1970, and in the following year that company completed geological, geochemical and geophysical surveys and excavated a total of 1,500 linear feet of bulldozer trenches. Some encouragement was obtained, but the property lay idle during 1972.

Ecstall Mining Limited, now Texasgulf Canada Ltd., became interested in the RED property as a result of a submittal of the ground

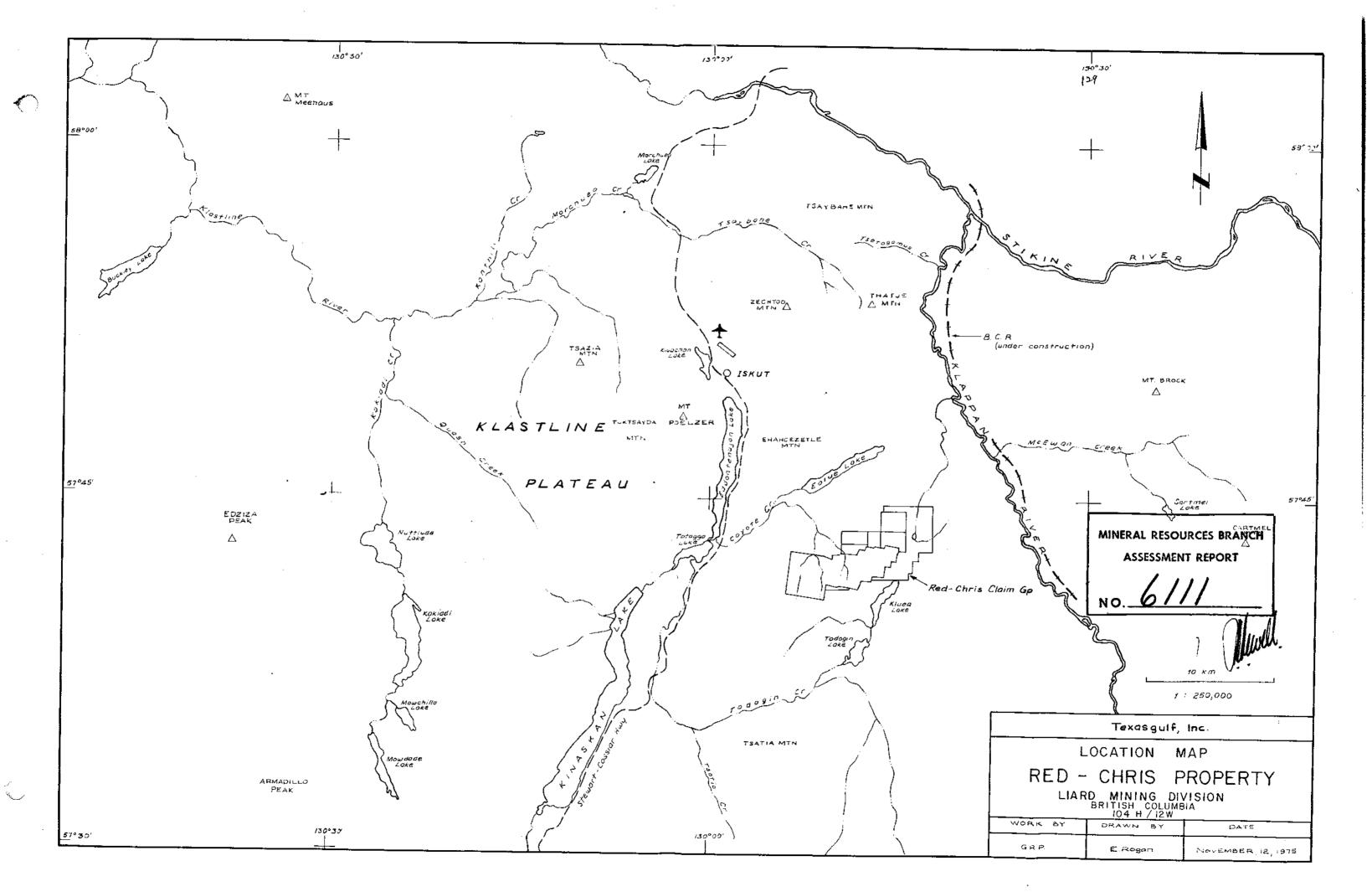
by Silver Standard for examination by Ecstall's parent company, then known as Texas Gulf Inc. Early in 1973, agreement was reached with Silver Standard for Ecstall to explore the claims, and during that season, a programme of percussion drilling totalling 3,000 feet in 14 holes was completed. Prior to this work being undertaken, Texasgulf, Inc. applied for and was issued Reclamation Permit No. MX-21, to be valid for a period of three years.

Ecstall, encouraged by their work in 1973, undertook an aggressive exploration programme in 1974. Work included diamond and percussion drilling, geological, geochemical and geophysical surveys, line-cutting and a location line survey of the core claim area. As the programme was proceeding, agreement was reached with Great Plains to explore the CHRIS property, and subsequently some work was also done on this ground.

Some additional ground was acquired by Ecstall in 1974 by location of the RAF claims, and the COUGAR fractions were staked for Ecstall at the time the location line survey was completed.

Further encouragement from results of the 1974 exploration programme led to continued investigations, mainly in the form of diamond drilling and percussion drilling, during 1975. Limited geologic mapping, line-cutting, trenching, and geophysical surveys were also completed. Some additional claims were staked and a location line survey was updated.

Encouraging results from the 1975 drilling prompted continuing investigations in 1976, mainly by diamond drilling. Some surface sampling, geological mapping. line-cutting, overburden drilling, and geophysical surveys were completed. Some additional claims were also staked.



# Location, Access and Terrain

The RED-CHRIS property is located on the plateau northwest of Kluea Lake, some twelve miles south of Iskut Village (see Index Map). Access is by helicopter from Eddontenajon or via bulldozer trail proceeding southward from the B.C. Railway access road which follows Coyote Creek and the north side of Ealue Lake. This trail is, at present, suitable only for tracked vehicles.

The property covers a gently rolling upland surface, with elevations ranging from 4,000 to 5,000 feet. To the south, the ground dips steeply away to Kluea Lake. Several deeply incised, north flowing steam gullies cut the western portion of the property.

#### Claim Status

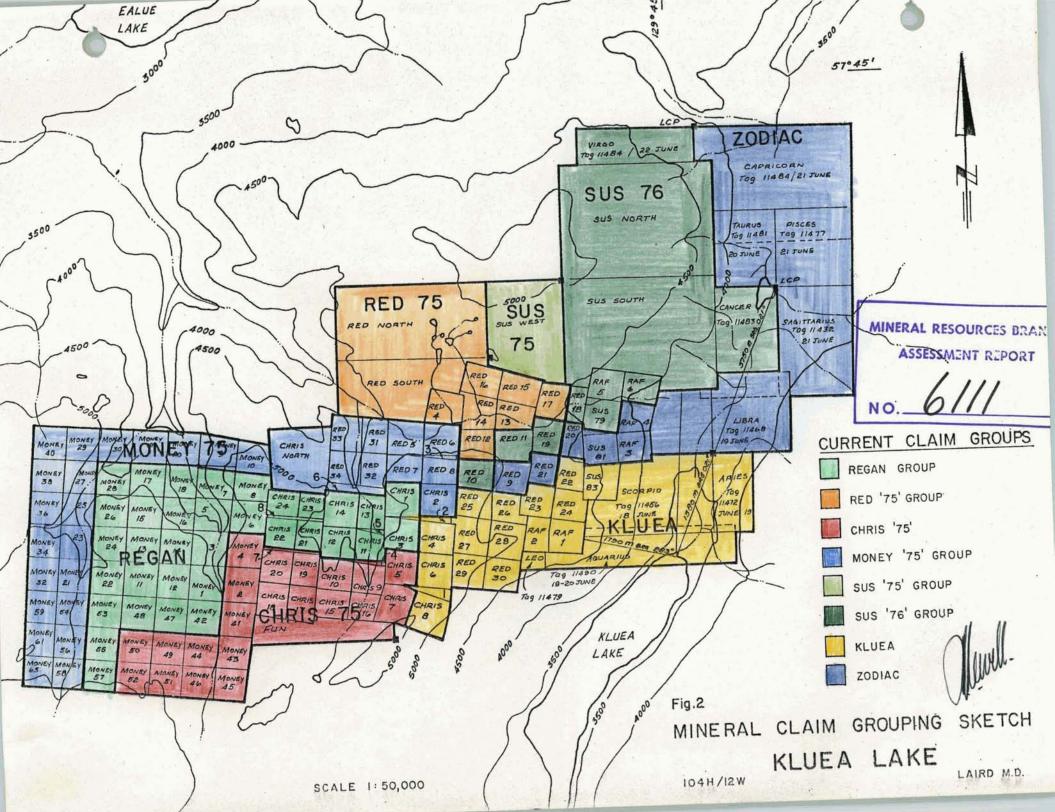
The mineral claims of the RED-CHRIS property, and their registered owners, are shown on the title page of this report. These claims have again been re-grouped in 1976.

The new groupings are listed below and indicated on the accompanying sketch map (Fig. 2) to conform with present information on claim post locations on the ground: (these groupings are all extant at the present time, except for the SUS 76 Group, which is to take effect on Dec. 19, 1976).

REGAN Group:

Chris 1, 3, 11-14, 21-24 Money 1, 3, 5-8, 11-18, 22, 24, 26 28, 42, 47, 48, 53, 55, 57

Cougar 5 and 8 Fractions



Red 4, 12-17 RED 75 Group: Red North (8 Units) Red South (8 Units) Chris 5, 7, 9, 10, 15-20 CHRIS 75 Group: Money 2, 4, 41, 43-46, 49-52 Fun (4 Units) Cougar 4 and 7 Fractions Red 5-8, 31-34 MONEY 75 Group: Money 9, 10, 19-21, 23, 25, 27, 29, 30, 32, 34, 36, 38, 40, 54, 56, 58, 59, 61, 63 Chris 2 Chris North (4 Units) Cougar 3 and 6 Fractions Cougar 1 and 2 Fractions KLUEA Group: Chris 4, 6, 8 RAF 1, 2 Red 22 - 30 Aquarius (5 Units) Leo (1 Unit) Scorpio (8 Units) Aries (2 Units) SUS 83 Sus West (6 Units) SUS 75 Group: (This group to become effective from Dec. 19, 1976): SUS North (12 Units) SUS North (12 Units) SUS 76 Group: Virgo (3 Units) Cancer (6 Units) RAF 5, 6

Red 10, 11, 18, 19

SUS 79

ZODIAC Group:

Red 9, 20, 21
SUS 81
RAF 3, 4
Gemini (4 Units)
Libra (4 Units)
Sagittarius (6 Units)
Taurus (4 Units)
Pisces (4 Units)
Capricorn (12 Units)

Twelve new claims comprising 59 units were located for protection on the east flank of the Red-Chris property. The locations of these claims are shown on Fig. 2 and are listed below;-

Claim	Location Date	Tag No.	Record #	<u>Size</u>
Leo	June 19, 1976	11479	136	l unit
Aguarius	June 19/20, 1976	11480	137	5 units
Gemini	June 18, 1976	11467	138	4 units
Scorpio	June 18, 1976	11466	139	8 units
Libra	June 19, 1976	11468	140	4 units
Aries	June 19, 1976	11478	141	2 units
Cancer	June 20, 1976	11483	142	6 units
Taurus	June 20, 1976	11481	143	4 units
	June 21, 1976	11477	144	4 units
Pisces	June 21, 1976	11482	145	6 units
Sagittarius	June 21, 1976	11484	146	12 units
Capricorn	June 22, 1976	11464	147	3 units
Virgo	ounc all invo			

#### REVISED GEOLOGY

A small amount of mapping was undertaken in 1976, mainly around the edges of the intrusive body and in the surrounding volcanic and sedimentary rocks.

The northeast trending elongate pyritic stock intruding the Mesozoic volcanic and volcaniclastic sequence at the RED-CHRIS property is now known to be at least as old as Upper Triassic.

Logging of drill core in 1976 suggests that the stock is mainly composed of a medium grained, well altered hornblende monzonite porphyry. A subordinate, relatively unaltered and possibly slightly younger phase of hornblende syenodiorite porphyry appears to form dykes cutting both the stock and the surrounding country rocks. A third, also relatively unaltered "late barren phase" hornblende feldspar porphyry can be seen cutting off mineralized quartz-veins.

The structure of the property area is dominated as reported previously by north-east trending faults and fracture zones. These zones appear to have been operative in pre-and post-mineral times.

Also as reported previously, the stock is well pyritized and generally well altered to quartz, sericite and carbonate. Local remnants of an early albite-magnetite-biotite (chlorite + epidote) alteration are also present. Localized zones of strongly developed stockwork veining are well mineralized by early quartz-pyritechalcopyrite veins. These veins are cut by later pyrite-chalcopyrite fractures, carbonate veins, and occasionally by gypsum veins.

# WORK COMPLETED - 1976

The exploration program conducted by Texasgulf Canada Ltd. in 1976 is outlined below (as follows);-

# Geological Mapping

Outcrop areas in creek gulleys and on ridge tops, both within and outside the stock, were mapped in some detail. Attention was concentrated on detailing the boundaries of the main stock and in searching for evidence of similar mineralization in nearby stocks and dykes on the property.

# Topographic Surveying

All the drill holes completed in 1976 were accurately located by McElhanney Surveying and Engineering Ltd. Most of the new claims staked were also accurately located. (The Taurus, Pisces, Cancer, Sagittarius, Gemini, Libra, Aries, Scorpio, Leo and Aquarius claims were surveyed, while the LCP for the Virgo and Capricorn claims was not surveyed.)

## Grid Cutting

The existing grid was extended in 1976 to cover part of the area covered by the old Great Plains Chris grid. This work involved the cutting of two base line extensions and several cross lines totalling 27,500' or about 5 line miles.

# Geophysical Survey

A limited amount of Induced Polarization was completed over a portion of the existing grid centered on the area trenched in 1975 and extending for a short distance to the west. The purpose of the survey was to account for the lack of geophysical response obtained from the previous I.P. survey over this zone. The dipole dipole method was employed and the pot spacing was closed down to fifty feet. Results from this method show excellent chargeability definition compared to the 1975 results.

## Diamond Drilling

A total of 9,701 feet of diamond drilling in 18 holes was completed during the 1976 season. Two holes drilled in 1975 were also deepened for a further total of 449 feet. Drilling was contracted to D.W. Coates Enterprises Ltd. of Richmond, B.C., and employed one Longyear 38 wireline rig recovering B.Q. core. Details regarding hole location, length, elevation, etc. are listed in a Summary of Diamond Drilling, Appendix D.

Core recovery was generally good to excellent. of summarized drill logs are included as Appendix C to this report. After logging, the core was split, sampled in ten foot increments, pulverized, and a one-eighth split was shipped for assaying.

The remaining half of split core is stored at the property in sheds built for the purpose.

All drill moves were made with a John Deere 450 "Cat". Auxilliary equipment, fuel and drill core were transported by a small Bombardier tracked vehicle and at times by a helicopter.

# Overburden Drilling

Overburden-drilled soil sampling has been in progress intermittently over the season. The contractor, Adcura Ltd. from Ottawa, commenced a sampling program on May 21st which continued until July 1st when work was suspended.

Soil samples were taken at bedrock and eighteen inches above bedrock over much of the eastern portion of the grid, with detailed sampling over the central portion of this area. The sample spacing interval ranged from 50' - 200'.

On August 10th, the overburden sampling program was restarted using Texasgulf personnel.

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## APPENDIX A

# EXPENDITURE STATEMENTS AND APPLICATION OF COSTS RED-CHRIS OPTION - 1976

Included in this Appendix are Interim Expenditure Statements, detailing costs of the following work:

Diamond Drilling completed to August 4, 1976.

These statements have been filed in support of Applications to Record Work filed on August 5 and 27th, and December 19th, 1976.

Application of the drilling costs is summarized in the following pages. The average drilling costs were derived by detailed analysis of invoices for the first 7,315 feet of drilling up to July 12, 1976. This average cost of \$21.79/foot was applied to the rest of the drilling claimed for assessment work (to 9,229 feet). The remainder of the drilling (up to 10,150 feet) has not been claimed for assessment work.

# DIAMOND DRILLING

		COCT /ET	APPLICATION OF	COSTS
HOLE	<u>DEPTH</u>	COST/FT.	Not reported \$	
DDH 23-C75	798-1166' (368')	\$21.79	HOU TOPOLOGIA	1,764.99
49-C75	697-778' (81')	\$21.79	Not reported	15,427.32
50-R76	708'	\$21.79	Red 10	
51-R76	668'	\$21.79	Red 10	14,555.72
52-R76	704'	\$21.79	Red 9	15,340.16
53-R76	617'	\$21.79	Red 9	13,444.43
54-R76	156'	\$21.79	Red 9	3,399.24
55-R76	777'.	\$21.79	Red 9	16,930.83
56-R76	528'	\$21.79	Red 9	11,505.12
57-R76	778'	\$21.79	Red 9	16,952.62
	778'	\$21.79	Red 10	16,952.62
58-R76	258'	\$21.79	Chris 2	5,621.82
59-076	180'	\$21.79	Red 25	3,922.20
60-R76	348'	\$21.79	Red 25	7,582.92
61-C76	438'	\$21.79	Chris 9	9,544.02
62-R76		\$21.79	Red 25	1,263.82
		\$21.79	Red 25	5,186.02
63-R76	-701	\$21.79	Red 25	12,594.62
64-R76	-001	\$21.79	Red 25	11,505.12
65-R76	· .	\$21.79	Chris 2	17,606.32
66-C7		•	Not reported	12,158.82
67-C7	6 558'	\$21.79	NOU TOPOTOES	
		, ·		\$221,277.45
	10,150'	10 150		
Footage (	Completed	10,150 3221,277.45		
Cost	4	21,277.43		0.4

21.79

Mean Cost/Foot

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## ASSESSMENT WORK SUMMARY

<u>cost</u>

WORK APPLIED FOR

\$221,277.45

\$120,100.00

Diamond Drilling

# DERIVATION OF DRILLING COSTS RED-CHRIS OPTION 1976 DRILLING PROGRAMME

Direct Drilling Costs	Cost	Cost/foot
Invoiced by D.W. Coates Enterprises Ltd. 7315' drilling completed to July 12, 1976 as per contract.	\$88,156.14	\$12.05
Supervision, Logging & Support: Salaries & Benefit	<u>.s</u>	
J. R. Forsythe, Senior Geologist May 17-July 12. 45 days @ \$100.00	\$ 4,500.00	
G. R. Peatfield, P. Eng., Senior Geologist June 4-July 12. 9 days @ \$110.00	990.00	
C. H. B. Leitch, Geologist May 20-July 12, 48 days @ \$60.00	2,880.00	
T. M. Elliott, Geologist May 20-July 12, 50 days @ \$55.00	2,750.00	
J. M. Newell, P. Eng., District Manager June 10-July 12, 13 days @ \$140.00	1,820.00	
D. S. Brand, Bombardier Driver/First Aid Man May 17-July 12, 48 days @ \$50.00	2,400.00	
L. A. McJannett, Senior Assistant July 1-12, 8 days @ \$40.00	320.00	
J. F. Gaspard, Junior Assistant June 3-July 12, 36 days @ \$30.00	1,080.00	· ·
S. C. Bartlett, Junior Assistant May 20-July 12, 50 days @ \$30.00	1,500.00	40.40
TOTAL	\$18,240.00 <sub>1</sub>	\$2.49
Helicopter Support	•	
Bell 206-B helicopter. 107.8 hours		
@ \$300.00/hour 70% flown in support of drilling programme.	\$22,650.00	\$3.10

Other Support Costs	Cost	Cost/foot
Camp costs, field office supplies, etc. Bombardier rental (1-1/2 months) Shipping, Travel, etc. Communications, radio, etc. Equipment	\$19,192.47 2,100.00 8,106.94 1,639.07 4,676.02	
85% applicable to drilling programme	\$35,714.50 \$30,357.32	<b>\$4.1</b> 5
All up cost per	foot of drilling	\$21.79

Cost of \$21.79/foot for 7315 feet of drilling completed to July 12, 1976 has been applied to all drilling (9229') completed to July 28, 1976, but for which all invoices have not yet been received.

July 30, 1976

J. W. Newell, P. Eng.

Personnel employed by Texasgulf Inc. on the project during 1976 are listed below:

NAME	CAPACITY	DATES	DAILY RATE OF COMPENSATION
J.R. Forsythe	Project Geologist	Jan. 1 - May 15 (project planning) : 78 days	\$100.00
		May 15 - Sept. 28 (field work) : 119 days	
G.R. Peatfield P. Eng.	Geologist	Jan. 1 - May 15 (project planning) : 11 days	\$110.00
	•	May 15 - Sept. 28 (field work) : 15 days	
J.M. Newell P. Eng.	District Manager	Jan. 1 - May 15 (project planning) : 9 days	\$140.00
		May 15 - Sept. 28 (field work) : 14 days	
C.H.B. Leitch	Geologist	April 5 - May 15 (project planning) : 25 days	\$ 60.00
		May 15 - Sept. 28 (field work) : 104 days	
T.M. Elliot	Geologist	May 1 - May 15 (project planning) : 6 days	\$ 55.00
		May 15 - Sept. 28 (field work) : 98 days	· · · · · · · · · · · · · · · · · · ·
E.A. Schink	Geologist	May 15 - Sept. 28 (field work) : 22 days	\$ 52.50
A.T. Armstrong	Draughtsman	Jan. 1 - Sept. 28 (field work) : 4 days (draughting) : 135 days	\$ 45.00
W. Gasteiger	Geophysicist	May 15 - Sept. 28 (geophysics) : 9 days	\$ 90.00
A. Rotenberg	Assistant	May 15 - Sept. 28 (geophysics) : 9 days	\$ 40.00

NAME	CAPACITY	<u>DATES</u>	DAILY RATE OF COMPENSATION
F. Handel	Carpenter	May 15 - Sept. 28 (16 days)	\$ 50.00
D. Fleming	Cook's Helper	June 1 - Aug. 31 (56 days)	\$ 25.00
R. Schmitt	Field Assistant	May 15 - Sept. 28 (7 days)	\$ 36.00
D. Donnelly	Geologist	May 15 - Sept 28 2 days	\$ 45.00
D. Brand	Bombardier Driver	May 15 - Sept. 28 (108 days)	\$ 50.00
D. Quock D. Dennis	Linecutter Linecutter	9 days 16 days	\$ 45.00 \$ 45.00
S. Bartlett	Core Splitter	May 15 - Aug. 31 (100 days)	\$ 30.00
J. Gaspard	Core Splitter	June 1 - Sept. 4 (92 days)	\$ 30.00
L. McJannett	Camp Foreman	May 15 - Sept. 28 (22 days)	\$ 40.00

In addition to Texasgulf Inc. personnel, contractors were engaged on the property as follows:

D.W. Coates Enterprises Ltd.

4 men June 6 - July 6

July 20 - Aug. 5

Cook May 25 - Sept. 2 (93 days)

Bear-X Mining & Exploration Services Ltd.		May 15 - Sept. 28 :
R. Barclay		8 days
I. Johnson	Linecutting, Overburden sampling	38 days
J. Baird	Linecutter	7 days
J. Marin utti	Linecutter	8 days
Adcura Limited (Overburden Sampli	ng)	May 15 - Sept. 28 :
D. Briand	Runner	May 20 - June 2 (14 days)
M. Paige	Runner	May 20 - June 9 (21 days)
R. Bureau	Helper	May 26 - June 9 (15 days)
S. Mercier	Helper	May 26 - June 28 (34 days)
R. Lecoursiere	Runner	June 5 - Aug. 10 (30 days)
J. Mercier	Runner	June 19 - June 26 (8 days)
R. Perron	Helper	June 19 - July 1 (13 days)
McElhanney Survey	ring	•

## McElhanney Surveying & Engineering Ltd.

N. Bennett

I. Hickman

Aug. 10 - Aug. 13 (3 days)

3 days

### APPENDIX B:

# DIAMOND DRILL CONTRACT

THIS AGREEMENT made this 5th day of March, 1976:

BETWEEN:

TEXASGULF INC., 701 - 1281 West Georgia Street Vancouver, 8. C.

(hereinafter referred to as
"The Company")

OF THE FIRST PART:

AND:

D. W. COATES ENTERPRISES LTD., 256A Simpson Road Richmond, B. C. V6X - 2P9

(hereinafter referred to as "The Contractor")

OF THE SECOND PART:

WHEREAS the Company has requested the Contractor to complete a minimum of 5,000 feet of drilling and other services as herein set forth, on the property of the Company in the Eddontenajon area in the Province of British Columbia.

AND WHEREAS the Contractor has agreed to do the said diamond drilling and to perform the other services requested upon the terms, conditions and provisos herein contained.

NOW THEREFORE, this Agreement Witnesseth that in consideration of the payment of the amounts herein stipulated and of the mutual covenants hereinafter contained, the parties hereto agree as follows:

### SCHEDULE OF RATES - CORING

THAT the Company hereby employs the Contractor to drill on the said property a series of bore holes using a BQ core barrel producing a core of approximately 1 7/16 inches. The Company agrees to pay the Contractor on a footage basis for all drilling according to the following schedule of rates:

From		<u>To</u>	Price/Foot
0	-	500' in depth	\$10.10
5001		1808' in depth	\$11.10
1000'	<u>-</u>	1500' in depth	\$12.25

It is understood that measurement of all bore holes shall be from the top of the casing or stand pipe as the case may be.

#### OVERBURDEN

THAT the Company agrees to pay for casing or stand pipe for the first 100 feet in any hole according to the following schedule of rates:

From			<u>Io</u>	Price/Foot
0	<u></u>	25 †	in depth	\$10.00
25'		50'	in depth	\$10.60
501		100'	in depth	\$12.75
100'	- plus			Field Cost

The Company further agrees that in the event that casing or stand pipe on any hole exceeds 100 feet, then charges for casing or stand piping on that hole shall be charged on a field cost basis from 100 foot depth to bedrock.

Whenever pipe or casing is lost, or left in a hole on the instructions of the Company's engineer, the Company agrees to pay for said casing or pipe at prices F.O.B. drill site plus fifteen percent.

The Company further agrees to compensate the Contractor at the rate of \$.80 per foot of casing employed for that portion of the hole completed on a field cost basis. Said amount per foot to compensate for the wear and tear on the casing.

# MOVING BETWEEN HOLES - SETTING UP - TEARING DOWN

THAT the Contractor agrees that the above schedule of rates includes the first 20 man hours employed tearing down, moving between holes and setting up the drill. Hours employed moving greater than 20 man hours will be charged on a field cost basis.

The Contractor agrees to place a tractor on the job to facilitate moving between drill site, at the rate of \$1000.00 per month plus fuel, oil, greases and running repairs.

## WATER SUPPLY

THAT the Company agrees that the above schedule of rates is deemed to include laying, maintaining and removing waterlines up to a distance of 1200 feet and/or a vertical lift of 200 feet.

Should the distance be greater than 1200 feet and/or the lift greater than 200 feet, then the laying maintaining and removing of the water-lines will be charged on a pro-rate basis: the above distances to the Contractor's account and the "over" to the Company's account on a field cost basis.

#### TRANSPORTATION

THAT the Contractor agrees to move his men, equipment and supplies from his base to truck unload point and return from load point to base for the lump sum of \$1500.00.

The movement of men, equipment and supplies from truck unload point to first drill site and from last hole to load point will be charged on a field cost basis.

The Company would supply a helicopter for the mobilization, demobilization and for continuing men and supplies, as the job progresses, at no cost to the Contractor.

#### ACID TESTS

THAT the Contractor agrees to take acid tests at the depths as instructed by the Company's engineer. Such tests will be charged at the rate of three feet of drilling at the depth the tests were taken.

## DRILLING WITH MUD

THAT it is mutually agreed that should mud be required to penetrate the overburden and/or aid in core recovery while core drilling, such mud employed will be charged on a cost at job site basis, plus fifteen percent.

Time employed mixing mud and stabilizing the drill hole would be charged on a field cost basis.

### CEMENTING

THAT the Company agrees to pay the Contractor for the cementing of bore holes to stop cave-ins on an operating field cost basis.

Waiting for cement to set would be charged on a non-operating field cost basis.

#### TRAVELLING TIME

THAT the Company agrees that should the time required to walk from the camp to the drill site and return per shift be greater than one-half hour, then that "over" will be recovered on a field cost basis.

# REAMING AND CASING

THAT the Company agrees that all reaming and casing that is necessary to stop cave-ins or maintain the return flow of water shall be completed at the Company's request and that the cost of performing such reaming and placing of such casing as may be required will be charged on a field cost basis.

Casing would be charged at the rate of \$.80 per reamed foot.

## DIRECTIONAL AND CONTROLLED DRILLING

THAT it is mutually agreed that directional drilling to change the direction of a bore hole and controlled drilling to maintain the angle of a bore hole shall not be part of this agreement.

#### SECURITY

THAT the Contractor will not give out any information regarding drill results or access to core to any person other than to the Company's representative.

#### BOARD AND LODGING

THAT the Company agrees to supply suitable board and lodging for the Contractor's crews at no cost to the Contractor.

#### CORE BOXES

THAT the Company agrees to pay the Contractor \$4.50 per box and \$1.30 per lid, supplied at their request.

#### CORE SPLITTER

THAT the Contractor agrees to supply a core splitter if requested, at the rate of \$30.00 per month.

#### DRILLING SITES

THAT the Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative and to follow the instructions of the said representative relating to place and time of drilling.

### FIELD COSTS

THAT the Company agrees that the following rates shall apply when certain work as defined in this contract is performed on a field cost basis. "Field Cost" is defined as all direct labour, including supervision, drill and support equipment per hour, and cost of pipe or casing lost, diamond loss, and materials and supplies consumed in this work.

## Operating Field Costs:

abour\$13.00 per man hour
rill\$ 9.00 per hour
Oump\$ .90 per hour
x 4 Truck (when applicable) \$ 7.00 per hour
Aud Mixer (when applicable)\$ .65 per hour
Catorials Consumed
15 percent.

Note: No charge is made for drill or pumps when mobbing or demobbing and moving between holes.

Non-Operating	Field	Costs:	(Maximum	8	hrs.	bet	day.	)

Labour\$12.00	per	man	hour
Drill - pumps, etc\$ 5.50	per	hour	<b>:</b>

#### PAYMENTS

THAT the Company agrees to make payments at the rates hereinbefore specified in accordance with the terms hereinafter set out, that is: for all work done hereunder between the first and 15th day of and the

16th and last day of the month, payment shall be due and payable in 15 days. Interest at a rate of twelve percent per annum shall be added to all accounts more than thirty days overdue, from date of invoice. These payments shall be made as the work progresses in conformity with the Contractor's semi-monthly invoices.

#### RIGHTS - DF - WAY

THAT the Company agrees at its own expense to provide all rights-of-way, all rights of ingress and egress and all real property that may be required in connection with said work, including real property upon which all necessary temporary buildings may be erected, and other facilities required, and shall also warrant the quiet and peaceful possession of all such real property and shall save the Contractor harmless from any and all damages, claims, demands, costs or charges of whatever kind or character incident to the occupation of said real property.

#### CAVED OR BROKEN GROUND

THAT in the event cavities or loose and caving materials are encountered of a nature as to prevent the successful completion of any hole, the Contractor does not, under such conditions, guarantee to drill to a predetermined depth and in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such incompleted holes at the rates herein specified for all footage completed.

In the event it becomes necessary to resort to cementing, reaming or casing, the Company agrees to reimburse the Contractor to the extent of field cost.

#### ENVIRONMENT

THAT during the course of the work, the Contractor shall at all times keep the client's premises free from accumulation of waste material or rubbish and upon completion of the work shall remove all tools, scaffolding and surplus material and leave the premises in a clean condition. The Contractor shall observe and comply with all applicable Federal and Provincial laws, regulations and orders relating to prevention of forest fires and sanitation in the bush.

#### COMPENSATION

THAT the Contractor agrees that the men employed by him in the performance of this contract shall be fully covered under the Worker's Compensation laws according to the Province of British Columbia and will keep such men covered and will pay the assessment required and will protect the Company from any action arising therefrom, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

## ESCALATION

THAT both the Contractor and Company appreciate the inflationery forces that are prevalent and active to-day. It is thus agreed that the above schedules include: (1) the labour rates that are in effect as at April 1, 1976 and (2) the costs for diamonds, rods, casing and fuel as of February 15, 1976.

Should there be any marked increase in (2), then it is agreed that the schedule of rates would be adjusted to compensate for such increases.

#### INSURANCE

THAT the Contractor, during the entire term of this agreement, will keep in full force and effect a policy of public liability and property damage insurance with respect to the work undertaken in this agreement, in the amount of \$500,000 for any one accident.

The insurance shall be with an insurance company duly licensed to do business in the Province of British Columbia.

#### RIGHT OF CANCELLATION

THAT the Contractor reserves the right to cancel this contract should its fulfillment be rendered impossible by:

- (a) War, invasion, insurrection, riot, the order or regulations of any civil or military authority, or by strikes, lockouts, or labour disputes, whether in or in the neighbourhood of the Contractor's plant or of that of any supplier of materials necessary for the completion of the contract.
- (b) The inability to obtain essential materials and supplies due to priority restriction.
- (c) The inability to secure labour due to restrictions or causes beyond the Contractor's control, and the Contractor shall not be liable for any loss or damage directly or indirectly suffered by the Company by reason of exercise of such right of canellation.

THAT it is mutually agreed that this agreement shall be binding upon and enure to the benefit of the parties hereto, their respective successors and permitted assigns, but shall not be assignable by

11 -

either party without the consent in writing of the other party first had and obtained.

THAT it is further agreed that this agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of the Province of British Columbia.

THAT any notice required to be given hereunder shall be properly given if mailed by registered letter addressed to the Company as follows:

Texasgulf Inc., 701 - 1281 West Georgia Street Vancouver, B. C.

or to the Contractor by registered letter addressed as follows:

D. W. Coates Enterprises Ltd., 256A Simpson Road Richmond B. C. V6X - 2P9 IN WITNESS WHEREOF these presents have been executed by the parties hereto the day and year first above written:

SIGNED, SEALED and DELIVERED in the presence of:

TEXASGULE INC.

Regional Mgr.

D. W. COATES ENTERPRISES LTD.

K. J. Jem

# APPENDIX C:

# DIAMOND DRILL CORE LOGS

PAGE NO. HOLE NO. TEXASGULF INC. DDH 23-C76 PROPERTY: RED-CHRIS LOCATION: 56.529 N 38,221 E DRILL HOLE LOG 53861 AZIM: 1800 ELEV: 1166 -450 DIP TEST LENGTH: CHRIS 2 FOOTAGE READING CORRECT FOOTAGE READING CORRECT CLAIM NO: CORE SIZE: B0 SECTION: 419 382 EAST STARTED: 11661 500 JUNE 28.1975 CHBL/TME LOGGED BY: REDRILLED JULY 31 - AUGUST 3, 1976 COMPLETED: DATE LOGGED: AUGUST 1 - AUGUST 4. 1976 PURPOSE: D.W. COATES ENTERPRISES LTD. DRILLING CO: ASSAYED BY: CORE RECOVERY: TEXTURE, ALTER'N, GRAPH. **ASSAYS** FOOTAGE EST. SAM. MINERALIZATION, GEOL. DESCRIPTION REC'Y GRADÉ NO. ETC. FROM ŦΟ 0-798' Drilled and logged in 1975. 100% 798'-836' Continues in grey-green feldspar porphyry with most of original texture destroyed. Quartz stockworking is moderately to strongly developed with strong pyrite and locally strong chalcopyrite. 87% 836'-842' Strong, sharp fault gouge. Porphyry fragments in a mud-clay matrix. 97-842'-885' 100% Grey-green strongly quartz-sericite-carbonate altered hornblende feldspar porphyry with weak to moderate quartz stockwork veining. Lower sulfide content, weak chalcopyrite. 98-885'-908' 100% Fault zone, broken and crushed black rock. Locally abundant tourmaline/pyrite replacement. 908'-9951 98-100% Alternating short (2'-10') sections of grey-green

(quartz-sericite altered) and orangey.

TEXASGUL	F	INC. DRILL HOLE L	.OG							HOLE DDH	<b>NO.</b> 23-C76	PAG	E NO. 2
TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH	DESCRIPTION	F001	AGE	RECYY	1	SAM.	•		ASS	SAYS		
ETC.	GEOL.		FROM	то	<u> </u>	GRADE	NO.						
		(albite-magnetite altered) feldspar porphyry.	<u> </u>		ļ					<u> </u>			<del></del>
		Magnetite is often altered to hematite or even destroyed by the strong quartz-sericitization.  Generally weak quartz stockworking, low sulfide											
		content (pyrite, chalcopyrite, traces bornite). Original texture of rock mostly obliterated.											
		995'-1040' Less altered hornblende feldspar porphyry.			97- 100%								
		Weaker orangey albite alteration and grey quartz- sericite alteration. Minor disseminated magnetite and/or hematite. Weak quartz/pyrite stockworks,											
	-	weak chalcopyrite.											
		1040'-1157' Mainly dark grey-greenish strongly quartz-			100%								
		sericite altered feldspar porphyry with stronger sulfides, locally moderate chalcopyrite. Alteration and mineralization weaken along with quartz											
		stockworking towards end of interval, and buff carbonatized hornblende relics become visible. Mod-			,								
	•	erate to weak chalcopyrite. 1138'-1145' Birds Eye Dyke with fine white carbonate amygdules.											
		1157'-1166'			100%							:	
		Late barren phase weakly altered buff horn- blende feldspar porphyry. Sharp contact with		, <u> </u>		<u>-</u> .							
		earlier phase at 60° to core axis. No stockworking or chalcopyrite.											,
		1166' E.O.H.					-· :··		· · · · · · · · · · · · · · · · · · ·				
	. <u>.</u>		<del></del>					···, ·	·				·

HOLE NO. PAGE NO. TEXASGULF INC. PROPERTY: RED-CHRIS DDH 49-C76 55,970 N 38,600E LOCATION: DRILL HOLE LOG 2250 5367' AZIM: ELEV: DIP TEST DIP: -450 LENGTH: 7781 CORE SIZE: FOOTAGE READING CORRECT FOOTAGE READING CORRECT CLAIM NO: CHRIS 2 STARTED: SEPT. 15, 1975 386 EAST SECTION: 7771 480 400 COMPLETED: TO 697' ON SEPT. 17, 1975/TO END LOGGED BY: TME JUNE 7/76 PURPOSE: DATE LOGGED: JUNE 8, 1976 DRILLING CO: D.W. COATES ENTERPRISES LTD. CORE RECOVERY: ASSAYED BY: TEXTURE, ALTER'N, GRAPH. MINERALIZATION, GEOL. FOOTAGE EST. SAM. **ASSAYS** REC'Y DESCRIPTION GRADE NO. ETC. FROM 0-697' Drilled and logged in 1975. 697' - 714 8' 93-Strongly altered greenish grey crowded feldspar 100% porphyry. Some relict buff-colored (carbonatized) hornblende relics. Reddish stain due to dusty hemalite.

99-

100%

Quartz-sericite alternation, moderate to strong quartz

Sharp contact at 714.8' with later cross-cutting

barren phase dyke of weakly altered buff-grey horn-

chalcopyrite. No hematite. Weak pyrite fracturing and carbonate veining. Mainly disseminated pyrite.

blende feldspar porphyry. No quartz veins or

vein stockworks. Total sulfides 10-15% strong

chalcopyrite.

714.8'-778'

(3-4%).

778' E.O.H.

PAGE NO. HOLE NO. TEXASGULF INC. PROPERTY: RED-CHRIS DDH 50-R76 LOCATION: 57,000 N 40,200 E DRILL HOLE LOG 1800 AZIM: ELEV: 53201 DIP TEST DIP: -450 LENGTH: 7081 CORE SIZE: FOOTAGE READING CORRECT FOOTAGE READING CORRECT RED 10 CLAIM NO: STARTED: 380 SECTION: JUNE 8 1976 7081 460 402 EAST JUNE 10, 1976 CHBL - TME COMPLETED: LOGGED BY: JUNE 8 - JUNE 11, 1976 DATE LOGGED: PURPOSE: DRILLING CO: D.W. COATES ENTERPRISES LTD. CORE RECOVERY: ASSAYED BY: TEXTURE, ALTER'N, GRAPH EST. SAM. FOOTAGE **ASSAYS** MINERALIZATION, GEOL. DESCRIPTION REC'Y GRADE NO. ETC. FROM TO 0-22' Overburden 87-22'-180' Begins in short fault gouge, then grey-green 100% mottled feldspar porphyry, strongly quartz-sericitecarbonate altered. Very weak quartz stockwork increasing to weak by 80'. Weak chalcopyrite, moderate hematite fracturing. Sparse remnants (mainly veinselvages) of pink albite-magnetite alteration scattered carbonate vein lets. 180'-410' Grey, strongly quartz-sericitized hornblende 97feldspar porphyry, alternating with black tourmalinized breccia sections (10% pyrite). Local carbonate 100% breccias and stockworks and weak to moderate chalcopyrite. Weak quartz stockwork, essentially no hematite. Pyrite overall 3-4%. Crackle breccias. 390'-410' 410'-529' 98-Rare pink albite-magnetite (hematite) altered 100% sections, with minor secondary biotite. Mainly grey-

green strongly quartz-sericite altered feldspar

porphyry. Weak to moderate quartz stockwork, moderate

TEXASGUL	.F	INC. DRILL HOLE L	.OG						HOLE DDH 5	<b>NO.</b> 0-R76	PAG	E NO. 2
TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH	DESCRIPTION	FOOT	·	RECTY	EST. GRADE	SAM. NO.		AS	SAYS		<del> </del>
E 10.	02.02.		FROM	то	<del> </del>	GRADE	NO.	ļ <u></u>		<del> </del>	<b> </b>	
<u></u>	<b> </b>	quartz stockwork, moderate chalcopyrite. Pyrite = 4%,	<b></b>	ļ	<del> </del>				-		<u> </u>	
	,	weak to moderate hematite. Local mottled texture, Traces of bornite.			<u> </u>				-			
	<del></del>	529'-570'	<u> </u>		<del> </del>			<u> </u>	-	-		ļ
		Mainly fault gouge and breccia. Strong chalcopy- rite in upper 11', then barren. 3% pyrite overall.			25 <b>-</b> 96%		<u> </u>					
		Dark tourmaline replacements and carbonate breccias are common.										
		570'-647 <b>'</b>	·						<del> </del>	ļ		
<del>-</del> <del>-</del>			<u> </u>		96-							
		Whitish grey strongly quartz-sericite altered feld- spar porphyry. Very weak quartz stockwork, almost barren of chalcopyrite. Moderate pyrite (5%). No			100%							
		hematite present.										
		647'-694' Black (tourmalinized) to dark grey (quartz-			97 <b>-</b> 99%							
		sericitized) fault gouge and breccia. Carbonate breccias. Pyrite = 6%, traces chalcopyrite only.										
		COAL 7001		-	0.00/							<del> </del>
	<b> </b>	694'-708' Grey, mainly quartz-sericite altered hornblende			99%							
		feldspar prophyry. Patchy silicification, essentially										
<del></del>		no quartz veins. No chalcopyrite, no hematite.			ļ				ļ		ļ	<u> </u>
		708' E.O.H.			-	· · · · ·			<del> </del>			<b></b>
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									<u> </u>			<u> </u>
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HOLE NO. PAGE NO. TEXASGULF INC. PROPERTY: RED-CHRIS DDH 51-R76 57,080 N 40,400 E LOCATION: DRILL HOLE LOG 180° ELEV: 5315' AZIM: -450 6681 DIP: LENGTH: DIP TEST CORE SIZE: FOOTAGE READING CORRECT FOOTAGE READING CORRECT CLAIM NO: **RED 10** JUNE 10, 1976 STARTED: 648 490 SECTION: 404\_EAST JUNE 13, 1976 COMPLETED: LOGGED BY: TME/CHBL PURPOSE: DATE LOGGED: JUNE 11-JUNE 14, 1976 DRILLING CO: D.W. COATES ENTERPRISES LTD. CORE RECOVERY: ASSAYED BY: TEXTURE, ALTER'N, GRAPH. FOOTAGE MINERALIZATION, GEOL. ASSAYS EST. | SAM. DESCRIPTION REC'Y GRADE NO. ETC. FROM TO 0-14' Overburden 14'-140' Grey strongly quartz-sericitized feldspar 69porphyry. Some carbonate and chlorite alteration 100% also. Sheared to 53'. Scattered quartz veinlets and hematite fractures. Some disseminated hematite. Weak pyrite and chalcopyrite. Weak carbonate stockwork. 140'-330' 95-As above section but weak quartz stockwork with 700% better chalcopyrite and stronger hematite. Rare remnants of pink albite-magnetite alteration. Vaque breccia texture, 198'-217'. Stronger pyrite. Occasional tourmaline fractures and carbonate veinlets. Intensity of quartz-sericite alteration increases after 280' 3301-5111 86-Light grey-buff, occasionally mottled, strongly 100% quartz-sericite altered feldspar porphyry. Moderate to strong quartz stockworking, moderate chalcopyrite, Pyrite = 5-10%. Occasional strong hematite. Intense silicification in places and crackling with very fine pyrite/chalcopyrite. Rare carbonate veinlets. Rock

#6111 HOLE NO. PAGE NO. TEXASGULF INC. DRILL HOLE LOG DDH 51-R76 TEXTURE, ALTER'N GRAPH MINERAL IZATION, FOOTAGE EST. SAM. **ASSAYS** RE C'Y DESCRIPTION GEOL. ETC. GRADE NO. FROM is often pink due to dusty red hematite. 511'-585' 87-Fault gouge. Dark grey shattered, crushed, and 100% brecciated rock. Chips of mineralized quartz veins are common. Tourmaline fracturing increasing towards 5851. 585 -6101 97\_ Variable black tourmaline breccia (with pyrite 100% and quartz, weak to moderate chalcopyrite). 610'-668' 85-Strongly fractured and somewhat sheared feldspar 100% porphyry. Some mottling (quartz/sericite alteration), but silicification of groundmass is more common. Weak quartz stockwork overall (locally strong) with weak chalcopyrite. Sparse disseminated red hematite. Strong pyrite (8-10%). Short sections of black tourmaline replacement (620'-623', 631'-638'). Alteration and veining drop off sharply from 650 to end of hole. Weak carbonate fracturing. 668' E.O.H.

#10111 HOLE NO. PAGE NO. TEXASGULF INC. PROPERTY: RED-CHRIS DDH 52-R76 LOCATION: 57,260 N 40,800 E DRILL HOLE LOG 1800 52951 AZIM: ELEV: -450 704 DIP: LENGTH: DIP TEST BQ CORE SIZE: FOOTAGE READING CORRECT FOOTAGE READING CORRECT CLAIM NO: RED 9 STARTED: SECTION: 408 EAST 6971 500 410 JUNE 13, 1976-COMPLETED: JUNE 15, 1976 LOGGED BY: CHBL/TME PURPOSE: JUNE 14-JUNE 17, 1976 DATE LOGGED: DRILLING CO: D.W. COATES ENTERPRISES LTD. CORE RECOVERY: ASSAYED BY: TEXTURE, ALTER'N, GRAPH FOOTAGE EST. SAM. ASSAYS MINERALIZATION, RECYY DESCRIPTION GEOL. GRADE NO. ETC. FROM 0-25' Overburden 25'-180' Mainly dark greenish grey quartz-sericite altered 50~ feldspar porphyry, with sparse remnants of pink or 100% buff albite alteration and brown biotite alteration. Moderate disseminated and fracture controlled hematite. Rare quartz veins to 90'. From 90'-180', weak quartz stockwork, weak chalcopyrite. Pyrite throughout 1-2%. 180'-190' Fault gouge, breccia, carbonate breccia. 89% 190'-250' 92-Light grey-green, strongly stockworked 99% and intensely quartz-sericite altered feldspar porphyry. Original rock texture destroyed. Strong chalcopyrite. Stockworking increases to intense towards end of section. Sulfide 10% total. Strong hematite (magnetite in the veins). Occasional carbonate breccias and vein stockworks.

TEXASGUL	.F	INC. DRILL HOLE L	OG					HOLE DDH 5	-	PAG	E NO.
TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION		TAGE	RECY	EST. GRADE	SAM. NO.	AS	SAYS		
			FROM	то	<del> </del>	01171011	110.	 			
		250'-380' Zone of sheeted intense quartz veining rich in chalcopyrite mineralization. Total sulfides			72- 100%						
		15-20%. Local bornite. Average 10% Fe-oxides (magnetite and hematite). Occasional carbonate veins, rare sphalerite. From 372'-380', a hard, cemented									
		fault zone (quartz-chalcopyrite-tourmaline-carbonate breccia).			•						
<del>,</del>		380'-484'		-					<u> </u>		<u> </u>
		Variable very dark grey to pale creamy feldspar porphyry. Moderate quartz-sericite-carbonate alteration overprinted by strong dark silica-pyrite flooding.			93- 100%						
		Weak quartz and carbonate stockworks, no hematite. Moderate pyrite, moderate chalcopyrite except strong									
		chalcopyrite from 450'-480'. Traces of bornite. Strong fault gouge, 455'-460' and 468'-484'.									
		484'-660' Light buff-grey, strongly altered feldspar porphyry			96- 100%						
		Quartz-sericite alteration destroys texture. Weak quartz stockwork, weak chalcopyrite. Rare carbonate veins and tourmaline replacements. Pyrite 3%,									
		occasional hematite. Alteration weakens towards 550' and buff carbonatized hornblende relics appear.									
		660'-704'			95-			 			
		Light grey-buff, strongly quartz-sericitized feldspar porphyry. Weak to moderate quartz stockwork, moderate chalcopyrite, weak hematite fracturing.			100%						
		Scattered carbonate and tourmaline fractures.		-							
		704' E.O.H.		1							
			<u> </u>	<b></b>	11			 <b>_</b>	<b> </b>	}~~~~ <b>~</b>	ļ

#6/11

HOLE NO. PAGE NO. TEXASGULF INC. PROPERTY: RED-CHRIS DDH 53A-R76 LOCATION: 57,240 N 41,400 E DRILL HOLE LOG 7800 52251 AZIM: ELEV: -450 779 DIP: LENGTH: DIP TEST CORE SIZE: BQ FOOTAGE READING CORRECT FOOTAGE READING CORRECT RED 9 CLAIM NO: 414 EAST STARTED: SECTION: JUNE 16, 1976 COMPLETED: JUNE 16, 1976 LOGGED BY: CHBL JUNE 17, 1976 PURPOSE: DATE LOGGED: DRILLING CO: D.W. COATES ENTERPRISES LTD. AVERAGE 66% CORE RECOVERY: ASSAYED BY: TEXTURE, ALTER'N, GRAPH FOOTAGE EST. SAM. **ASSAYS** MINERALIZATION, GEOL. REC'Y DESCRIPTION GRADE NO. ETC. TO FROM 0-201 Overburden 20'-54' 22-Brown, rusty stained horneblende feldspar 71% porphyry rubble. Poor recovery, occasional shearing and gouge. Fresh rock is grey quartz-sericite altered feldspar porphyry. Pervasive carbonate and pyrite are also present. Weak disseminated hematite (2-3%). Weak quartz stockworking, weak chalcopyrite. Occasional tourmaline/pyrite replacement. 54'-106' 36-Grey moderately quartz-sericitized feldspar 98% porphyry, some strong groundmass silicification and crackle veining. Moderate chalcopyrite, only traces hematite. Short sections (56'-64', 81'-84') with intense black tourmaline/pyrite replacement. Strong pyrite overall (6%). Weak carbonate stockwork. 106'-119' 30-Fault-clay gouge and rubble. Strong quartz 36% veining in broken chips with strong pyrite and chalcopyrite.

119' E.O.H.

PROPERTY:	57 240	RED-CHRIS N 41,400E		T	EXA	4SG	ULF	-	NC					HO!	LE NO.   53B-R76	PAG	SE NO
LOGATION	27,5270	H 415400E			DRII	LL H	OLF	10	G				(Dri	lled fr	om same s	ite ac	53A
AZIM: 7800		ELEV: 52	251				V		•				(2.1	1104 11	on June 3	ice us	JUM
DIP: -450			98'		-	DIP	TEST										
		CORE SIZE:	BQ	FOOTAGE	READING	CORRECT	FOOTAG	READ	ING CO	RRECT	CLAIM	NO:	RED 9				
STARTED: JUNE	16,	1976		4661	530	440					SECTIO	N:	414 E				
COMPLETED: JUNE	18,	1976									LOGGE	D BY:	TME/C	HRI	1.1	2. F	zu-th
PURPOSE:			·								DATE L	OGGED:	JUNE	17-JUNE	19, 1976		7
											DRILLI	NG CO:	D.W.	COATES	ENTERPRIS	ES LTC	).
CORE RECOVERY:					<u></u>						ASSAY	ED BY:					
TEXTURE, ALTER'N, G MINERALIZATION, G	RAPH.		DESC	CRIPTI	ON			FOO	TAGE	REC'Y	<b>/ }</b>	SAM.			SSAYS		
ETC.	DEUL.			<del></del>				FROM	TO	<u> </u>	GRADE	NO.					
			ed in DDH 53	Α							]						
			·							<u> </u>	<u> </u>						
		53'-120'			<del></del> .					76-	<b>_</b>						
		Grey, cro	owded, mottl	ed_felds	par port	ohyry	· · · · · · · · · · · · · · · · · · ·			99%	ļ						
		Occasional ho alteration.	orn∉blendes Rock is wel	<u>visible.</u> 1 sheare	Quartz ed and br	<u>z-sericit</u> roken wit	t <u>e</u> th			<del> </del>	-						
		abundant faul	lt gouge sec	tions.	Weak qua	artz stoc	kwork		-		İ						
		but some stro	ong chalcopy	rite (ve	ry fine	). Pyrit	:e =			1			1				
		5-7%. Rare o	carbonate fr	actures,	no hema	itite.				1							
		7.001 03.01							·								
·		120'-316'	····							71-		ļ				 i	
			<u>in grey ho</u>							100%							
		porphyry, str	·			******			·		ļ					<b> </b>	
<u>'</u> '.		gouge. Weake	r quartz st	ockwork,	moderat	<u>e chalco</u>	pyrite.				<b></b>			· .		ļ <del>`</del>	
		Strong tourma in quartz vei	ns. traces	ring is bornite	Pyrite	Minor n	ematite	———	·- <del>-</del>							<u></u>	
		about 4%. Fa								<u> </u>	ļ			<u> </u>		· · · · · · · · · · · · · · · · · · ·	<del> </del>
	1	change to bre	ccia 316'-3	9 <u>-310</u> 881.	illarks re	оск суре		· ·	· · · · · · · · · · · · · · · · · · ·							<del></del>	
						<u> </u>					-						
		316'-388'								99-		-					<del> </del>
		Sheared a	nd brecciate	ed grey	fe1dspar	porphyr	y			100%						· <del></del> -	ļ
		breccia. Maj	or fault go	uge, som	e brecci	a. Pvri	te =			170%			<b></b>	<del></del> -			
		10-12% dissem	rinated. No	chalcop	yrite or	quartz											
	···· ].	<u>vei</u> ning.									1						
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TEXASGUL	.F	INC. DRILL HOLE L	.og							HOLE DDH 53	<b>NO.</b> B-R76	PAG	E NQ 2
TEXTURE,ALTER'N MINERALIZATION, ETC.	GRAPH	DESCRIPTION		rage	RE C'Y	EST.	SAM.			AS	SAYS		
EIU.	OLOL.		FROM	то	<del>                                     </del>	GRADE	NO.	<b></b>					
		388'-470'	ļ <u></u> .		98-				<u> </u>	<u> </u>			<u> </u>
		Relatively unfaulted, massive igneous breccia.		ļ	100%	ļ	<b> </b>	<b></b>	ļ				<b> </b>
		Creamy coloured fragments in a grey siliceous matrix.	<u> </u>	ļ			<b> </b>	<b></b>	ļ				
	<u> </u>	Strong quartz-sericite alteration, especially along selvages. Intense pyrite (15-20%). Breccia textures		ļ	<b>.</b>				ļ	<u> </u>			<del> </del>
· · · · · · · · · · · · · · · · · · ·				<u> </u>	<u> </u>				<u> </u>				
		become vague towards end of interval. No quartz		<u> </u>	<u> </u>			ļ			<u> </u>		ļ
		veining or chalcopyrite.											<u> </u>
	]							<u> </u>		<u> </u>			<u> </u>
		470'-498'			100%								<u> </u>
		Strongly quartz-sericitized grey mottled feldspar	<u> </u>					<u> </u>	<u> </u>				
		porphyry. Pyrite = 10-12% (disseminated). No quartz veining or chalcopyrite. Local carbonate stockworks.			1								
		veining or chalcopyrite. Local carbonate stockworks.		}					r				
<del></del>													L
		498' E.O.H.											
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		1000 Table	l	<u> </u>				·	<del> </del>	<u> </u>			
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<u> </u>				}				2.000 No. 100		ļ			<u> </u>
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#6111 HOLE NO.

PAGE NO. DDH 54-R76

.R. Forsythe

TEXASGULF INC. DRILL HOLE LOG

PROPERTY: RED-CHRIS 57,030 N 41,000 E LOCATION:

DIP:

1800 ELEV: AZIM: 52451 -450 156' LENGTH:

DIP TEST

CORE SIZE: FOOTAGE READING CORRECT FOOTAGE READING CORRECT JUNE 18, 1976 STARTED: COMPLETED: JUNE 19, 1976 PURPOSE:

CLAIM NO: RED 9 410 EAST SECTION: LOGGED BY: CHBL-TME

JUNE 19, 1976 DATE LOGGED:

DRILL MG CO:

CORE RECOVERY:										DRILLIA		D.W. CO/	ATES ENTE	RPRISES	S LTD.	
			<u> </u>		<u> </u>		1		<del></del>	ASSAYE						
EXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH. GEO!	DES	CRIPTIC	N			ļ	TAGE	REC'Y	EST.			AS	SAYS	·	
EIC.	~						FROM	то	<u> </u>	GRADE	140.				<u> </u>	
		0-13' Overburden							<del></del>					_	<u> </u>	ļ
		13'-81'	· · · · · · · · · · · · · · · · · · ·						82-	<u> </u>					<u> </u>	-
		Greyish-green stromaltered mottled feldspa and pyrite fractures.	ngly quar ar porphy Sparse q	tz <u>-seri</u> ry. So uartz v	cite-pyr me tourm eins, tr	rite maline races			99%							
		of chalcopyrite.			7-1-											
		81'-88' Fault gouge.						/ <del></del>	€2%							
		88'-140'			· · · · · · · · · · · · · · · · · · ·			, <u>-</u>	95-					<del> </del>	<u> </u>	_
		Grevish green mottl quartz-sericite alterat Weak quartz stockwork,	ion, des	troying	texture				100%							
·		140'-156'							68-							
		Fault gouge, intens	<u>ely crus</u> trix.	hed and	breccia	ted			98%					-		
		156' E.O.H.														
		•			·											
																-
							-									

	<u>-</u>			- ·		· · · · · · ·					#61	//		·····		
PROPERTY:	RED-CHRIS	T	EXA	SGU	JLF	1	NC	•					HOLE DDH 55		PAG	E N
LOCATION: 57,	550 N 41,400 E	<u></u> .	DRIL	L H	OLE	LO	G									•
AZIM: 1800	ELEV: 5250'						<b>.</b>									
DIP: -45 <sup>0</sup>	LENGTH: 777'	_		DIP	TEST											
	CORE SIZE: BQ	FOOTAGE	READING	CORRECT	FOOTAGE	READ	NG CO	RRECT	CLAIM	NO:	RED 9	€				
STARTED: JUNE 19	1976	777¹	460	38 <sup>0</sup>					SECTIO	N:	414 F	AST				_
COMPLETED: JUNE 22		_				ļ			LOGGE	BY:	CHBL/			1.7	PIE	<u> </u>
PURPOSE:		_				ļ			DATE L	OGGED:	JUNE	20-JI	JNE 23,	<u>, 7</u> ₹76		<u> </u>
		_	ļ						DRILLIN	ig co:	D.W.	COATE	<u>:s entf</u>	ERPRISES	S LTD.	<u></u>
CORE RECOVERY:									ASSAYE	D BY:				<del></del>		
TEXTURE, ALTER'N, GRAININERALIZATION, GEO	H DE	SCRIPTI	ON			FOO	TAGE	_REC'Y	EST.	SAM. NO.			ASS	SAYS		
ETC.	<u> </u>					FROM	то		GRADE	NO.						<u> </u>
	0-15' Overburden								<u> </u>	ļ						<u> </u>
	751 0001							1.0					ļ	ļ		<u> </u>
	15'-239'							40-					ļ	<u> </u>		ļ
	Grey mottled felds							100%	<u> </u>		1		<u> </u>			<u> </u>
	quartz/sericite after plagioclase laths). P							1					<u> </u>	<b></b>		<u> </u>
<del></del>	tion. Occasional quar							<del>                                     </del>	<b> </b>				<del> </del>	-		<del> </del>
	but only weak chalcopy							1	-			····	<del> </del>	-		ļ
	local tourmaline, espe	cially ne	nor gypsi ar shear	ing at er	iring,			1	<u> </u>				<u> </u>			
	of interval. Gouge, 2	<del></del>						-					<del> </del>			ļ
	of interval. douge, 2	12 -210 .	· · ·					<del>- </del>			-		<del> </del>	1		
	239'-286' Fault breco	ita and go	ugo (ang					91-	<b>-</b>				-	<del>                                     </del>		<del> </del>
	fragments in a matrix				nd			99%					<del> </del>	<del>                                     </del>		
	rock flour).											<del></del>				
		_										<del></del>	<b> </b>	1		
	286'-385'		<del></del>					90-								ļ
	Vague to locally o	listinct g	rey mott	led breco	ia	=	<u>-</u>	100%								
	of feldspar porphyry f	ranments	in a sil	iceous ma	trix											
	Short sections (350'-3	68') lack	breccia	texture.												
	Strong quartz-sericite	-pyrite a	Iteration	n, but or	ıly											
	rare quartz veins, tra	ces chalc	opyrite.													
770.48																
1				•	į											İ

TEXASGUL	F	INC. DRILL HOLE	_OG	····					HOL I DDH	<b>NO.</b> 55~R76	PAGE 2
TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH	DESCRIPTION	F001	AGE	RE C'Y	1	SAM.		Α	SSAYS	
ETC.	GEOL.		FROM	то	<u> </u>	GRADE	NO.				
	1	385'-411'			99-						
		Sheared zone dividing pyritic regime (above) from hematitic regime (below).			100%_						
	]			<b></b>	<b> </b>						
		411'-520'	<u> </u>	ļ	96	ļ. —					
	<b></b>	Pale greenish to buff, fine grained feldspar por- phyry. Original texture largely obscured. Contains		:	100%						
		3% disseminated hematite, only 1% pyrite, traces chalcopyrite. Rare quartz stockworking.									
				ļ	ļ	<del> </del>					
	<u> </u>	520'-777'	<u> </u>	<u>.</u>	83-	ļ					
·	<b>_</b>	Mainly light greenish-buff strongly sericitized	ļ <u>-</u>	<b>!</b>	100%_	<b> </b>					
		hornblende feldspar porphyry, with sparse remnants of albite and biotite alteration. Weak to moderate	<u> </u>	<u> </u>	<u> </u>	ļ					<b> </b>
	<u> </u>		.	ļ	<u> </u>	1	ļ				
	-	chalcopyrite. Local strong silicification. Pyrite only 1-2%; hematite up to 5%. Weak carbonate stock-	_								
	1	work. Tourmaline common on fractures in sheared rock,								_	
, , , , , , , , , , , , , , , , , , ,		650'-710'.		<u> </u>	<u> </u>	1	<u> </u>				
	]	675'-693' Fault Gouge									<u> </u>
		716'-727' Fault Gouge	<u> </u>	ļ <u> </u>			<b></b>				<b></b>
	1	739'-743' Fault Gouge	_ <del></del>		<b>_</b>	<b></b>					
·	<del>-</del>	777' E.O.H.	<u> </u>		<del> </del>	-					
	<b>+</b>	7// E.U.H.	<del> </del>	<del></del>	-		1				1
			· <del>·····</del>		<del> </del>	1					
	<b></b>		<del> </del>	·}	1	<del> </del> -					
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HOLE NO. DDH 56-R76 PAGE NO. RED 9 CLAIM NO: 412 EAST SECTION: LOGGED BY: CHBL/TME JUNE 23-JUNE 24, 1976
D.W. COATES ENTERPRISES LTD. DATE LOGGED:

# TEXASGULF INC. DRILL HOLE LOG

1800 52501 ELEV: AZIM: DIP: -45<sup>0</sup> LENGTH: 5281

57,280 N 41,200 E

RED-CHRIS

PROPERTY:

LOCATION:

DIP TEST

CORE SIZE: BQ JUNE 22, 1976 STARTED: COMPLETED: JUNE 23, 1976 PURPOSE:

FOOTAGE READING CORRECT FOOTAGE READING CORRECT 4981 530 440

									DRILLII		D.W.	COATES E	NTERPRIS	SES LTD.	
CORE RECOVERY:		<u> </u>		<u> </u>	·····	<u> </u>		l	ASSAY	ED 8Y:					
TEXTURE, ALTER'N, GRAPH. MINERALIZATION, GEOL.	DES	CRIPTION	N			F001	AGE	REC'Y		SAM.		A	SSAYS	•	
ETC. GEOL.	<u> </u>				[	FROM	TO	]	GRADE	NO.					
	0-45' Overburden														
	45'-125' Fault gouge,	broken & s	shearec	rock.				30-							
	Strong tourma	aline/ovrit	te. hai	rline			·	84%							
	hematite/cha	lcopyrite \	veins.	Rare											
·	quartz veins.	. Minor di	issemin	ated hema	tite.										
								<u> </u>							
	125'-300'			w				89-							
	Buffish to pale gre	een hornble	ende-fe	eldspar				100%							
	porphyry, quartz-seric	ite altered	d. She	earing				<u> </u>							<u> </u>
	continues to 175'. Loc	cal short s	section	s of stro	ng				1					<u> </u>	
	tourmaline replacement	. Strong p	pyrite	in the				ļ	<b> </b>						
	tourmalinized and shear					<u></u>		<u> </u>							<u> </u>
	veins and chalcopyrite					·		↓	1						ļ
	especially in groundmas	ss silicifi	ication	and crac	kling.		<u></u>	<b></b>							
	After 180', some vague	remnants c	or orig	inal albi	τ-			<u> </u>	ļ						<u> </u>
	12001011						· <del></del>	<u> </u>	<b>_</b>	<u> </u>		<b></b>			ļ
									<b>.</b>					ļ	
	300'-407'						<u> </u>	97-	<b>.</b>					1	
	Rock as in section	above, but	t with	weak to				100%	ļ					<u> </u>	ļ
	locally moderate quartz moderate chalcopyrite.							ļ	·				· · ·	<u> </u>	ļ
	· · · · · · · · · · · · · · · · · · ·	-		_		-· · · · · · · · · · · · · · · · · · ·	<del>.</del>	ļ	<del>                                     </del>	ļI				<del> </del>	<u></u>
	chalcopyrite ratio high	10021	/ a whoma	ita etaekw	- N		· 	<u> </u>	<b> </b>	ļ <u>.</u>					<del> </del>
	<u> </u>	LUCAL	a i bulla	TE STOCKM	O.K.				ļ	ļi		· · · · · · · · · · · · · · · · · · ·			<u></u>

TEXASGUL	F	INC. DRILL HOLE L	.og					· · · · · · · · · · · · · · · · · · ·	6111	HOLE DDH 5	<b>NO.</b> 6-R76	PAG	E NO
TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	F001	AGE	REC'Y	EST.	SAM,			AS	SAYS		
			FROM	то		GRADE	NO.						
		408'-433'		<u> </u>	98-	<u> </u>							
		Major fault. Fault breccia and gouge, some		ļ	100%		· .						
	,	sections healed by mixtures of quartz, carbonate,		<u></u>	<u> </u>								
		tourmaline, and pyrite.							<u>.</u>				
		433'-528'			ļ					<u> </u>			
			_		97-	ļ <u>.</u>							
		Light grey to greenish, strongly quartz-sericite-			99%								
		carbonate altered feldspar porphyry. Weak to moderate quartz stockwork, weak chalcopyrite, minor hematitic			ļ								
		quartz stockwork, weak charcopyrice, minor nematitic								<u></u>			
	<u> </u>	fracturing. Clay-rich gouge common in 5'-10' sections Pyrite averages 3%. Occasional tourmaline-pyrite replacements and carbonate veins.			<b>j</b>								
		replacements and carbonate veins											
·				· <b>-</b>						<u> </u>			
		447'-463' Fault Gouge 490'-498' Fault Gouge								<u> </u>			
										<u> </u>			
		519'-528' Fault Gouge, with chips of broken,			<b> </b>								
		mineralized quartz veins.						·	<u></u>				
		528' E.O.H.							· · ·	ļ			
	- +	520 E.U.N.											
	<del></del>		·										
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PROPERTY:		RED-CHRIS	T	EXA	4SG	ULF		NC	•					HOLE DDH	NO. 57-R76		E NO.
LOCATION:	57,5	570 N 41,020 E	-			IOLE							•				
AZIM: 1800 DIP: _450		ELEV: 52751 LENGTH: 7781	<del>-</del> -	-	DIP	TEST				٠.							
		CORE SIZE: BQ	FOOTAGE	READING	CORRECT	FOOTAGE	READ	NG CO	RRECT	CLAIM	NO:	RED 9					
STARTED: JUNE	23, 19	276	608'	460	380	<del> </del>				SECTIO	N:	410 E/	TO				
	25, 19		.	70-						LOGGE	BY:	TME/CI			1.R.	Jores	the
PURPOSE:	. <del> </del>		•	<u> </u>	1	-	<del>                                     </del>			DATE L			24-JUNE	30,		10107	<del>,,</del>
						<del>                                     </del>	1	-					COATES			LTD	
CORE RECOVERY:			-	<del> </del>	· · · · · · · · · · · · · · · · · · ·		<del> </del>			ASSAY		D.M.	JUNILI	<u></u>	NIJLJ	LIU.	
TEXTURE, ALTER'N, MINERALIZATION,	GRAPH.	DES	CRIPTI	ON	J		F00	TAGE	REC'Y	FST	SAM.		<del></del>	ASS	AYS		
ETC.	GEOL.	520	, , , , , ,				FROM	TO	- `` <b>-</b> `` '	GRADE	NO.	<u> </u>		1		i.	
		0-23' Overburden			<del>·</del>				1	<u> </u>	<u> </u>		1		<u> </u>	ļ	<b></b>
	-	0=23 Overburgen	•									<u>.</u>		<b> </b>	<u> </u>		·
		23'-290'							87-	<u> </u>	1	<u> </u>		1	<del> </del> -		<del> </del>
		Grey mottled feld	מאסת מבמי	hunu ct	ronaly o	a rt 7_			100%				<del></del>	<u> </u>			
		sericite altered, esp					<del></del>		1.00%	<del>                                     </del>	<u> </u>			<del> </del>			· · · - · ·
		Weak pyrite and carbo	nate stoc	kwork, r	are quar	tz veins	•							<del> </del>			
		Strong pyrite (5-7%),	traces c	halconyr	ite Mi	nor				<del> </del>			1				
		tourmaline fracturing	. Strona	pervasi	ve carbo	nate	· · · ·		<del>                                     </del>			<b> </b>		<del> </del>	·		
		alteration. Traces M		1				v <del></del>	<del> </del>			-	<del> </del>	i		<b>├</b>	
				•				A		<del> </del>	<u> </u>	<del></del>	<del> </del>	<u> </u>			<b> -</b>
		2001 6221				<u> </u>		<u> </u>	98-	<del> </del>	<b></b>	<del>                                     </del>		<del> </del>	<del>                                     </del>		<u> </u>
		290'-623' Grey, strongly qu	artz_seri	cite-car	bonate-n	write			100%	<del> </del>		<del> </del>	<b> </b>	<u> </u>			
		altered feldspar porp							1.00%	-	<del> </del>	<del> </del>	<del> </del>				<del> </del>
		remaining. Very weak								1	<u> </u>		<u> </u>				<b></b>
		stockworks, weak chal	convrite.	Traces	molybde	nite.				<u> </u>		<u> </u>	<del> </del>			ļ-—l	
		Chalcopyrite as very								<b></b>				<del> </del>	<u> </u>		
		quartz crackling. Lo	cal stron	g silict	fication				<del> </del>	l		<del> </del>	<b> </b>		<u> </u>		
		Only rare traces of r	ed hemati	te. Sma	11 shear	at			1					<u> </u>	<del>-</del>		
		623'.							<del> </del>			<del> </del>	<u> </u>	<del> </del>			
		UCO			***************************************				<del>                                     </del>			<u> </u>			-		
		623'~669'				·· ·- i			- <del> </del>	<b> </b>		<b></b>	<u> </u>	]			
		Pale buff, fine-g	rained st	ropuly a	ltered		 		90-	ļ	} <u></u>	<u> </u>	ļ	<b> </b>	<del> </del>	<u> </u>	l
		feldspar porphyry (pr								<u> </u>	<u> </u>	ļ·	<del> </del> -	<u> </u>		ļ	
		sericitization, textu							1.00%			1			ļ		
		Sections of orange or				i									:		

#6/11

TEXASGUL	F	INC. DRILL HOLE L	_OG					1	HOLE DDH 57		PAG	E NO.
TEXTURE,ALTER'N MINERALIZATION, ETC.	GRAPH GEO!	DESCRIPTION	F001		REC'Y	EST.			ASS	SAYS	************	
E I C.			FROM	то	<u> </u>	GRADE	NO.	 		ļ		<del> </del>
		Weak hematitic stockwork carrying some chalcopyrite. Sparse quartz veins, essentially no pyrite fractures after 623' (hematitic regime as opposed to pyrite										
		regime up the hole). Fault gouges and shears separate this section from the section below.										
		669'-778'			84-	-						-
		Little country rock remains, but where visible it is greyish buff to creamy Hornblendes are buff and			100%							
		carbonatized. Strong quartz stockwork replaces up to 50% of the rock, with associated strong						<u></u>				
		chalcopyrite and bornite. Little pyrite in general, but abundant hematite in disseminated form.										
		Pyrite increases at end of hole and bornite disappears (replaced by chalcopyrite).										
		778' E.O.H.										
			South of the State of									
											-	-
								 				ļ
			<u></u>					 				
						· · · · · · · · · · · · · · · · · · ·		 				ļ
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												#6	///			
PROPERTY:		ED-CHRIS		EXA	4SG	ULF	Ì	NC	•		· · · · · ·		HOLE DDH 5		PAG	E NO.
	,495	N 40,600 E	_	DRIL	L H	OLE	LO	G								
AZIM: 1800 DIP: -450	<del></del>	ELEV: 5310'	<del></del>		DIP	TEST			:		· .					
		CORE SIZE: BQ		READING		FOOTAGE	READ	NG CO	RRECT	CLAIM	NO:	RED 10	<u> </u>			<u></u>
STARTED: JUNE			758'	380	310		<u> </u>			SECTIO		406 EA	ST	1-	<del></del>	-
COMPLETED: JUNE	28, 1	976	_	ļ			<u> </u>			LOGGE	· ·· ·· · · · · · · · · · · · · · · ·	CHBL 2	6 10 V		· Jois	ythe
PURPOSE:		· · · · · · · · · · · · · · · · · · ·	-		ļ ·	<u> </u>	<del> </del>			DATE L			9-JULY			<u></u>
CORE RECOVERY:			_	<u> </u>						DRILLIA	<del></del>	D.W. C	OATES E	WIERPRI	SES LT	D.
			<u> i</u>	<u> </u>	<u> </u>	<u> </u>	<u></u> _		<del>   </del>	ASSAY	1 87:		· · · · · · · · · · · · · · · · · · ·		<del></del>	<del> </del>
TEXTURE, ALTER'N, GR MINERALIZATION, GR ETC.	RAPH. EOL.	DE	SCRIPTI	ON				TAGE	REC'Y	EST.	1 i	· · · · · · · · · · · · · · · · · · ·	ASS	SAYS	· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>
ETO.			<del></del>				FROM	то	<del> </del>	<del> </del>	<del> </del>			-		<del> </del>
		0-23' Overburden							·	<del></del>			-			
		23'-220'			•				94-	<del> </del>						
	-	Grey to greenish g	rev occas	sionally	white				100%	1		-				
		quartz-sericite-carbon	ate-pyrite	e altere	d feldsp	ar	·									
		porphyry. Texture gen	ierally va	gue, mod	erate si	lici-										
		fication locally. No														
		fracturing. Sparse ca No chalcopyrite, 4% py														ļ
				TENTE 131.5		parent									· · · · ·	
		where not obliterated selvages. Rare, thin											<b></b>			
		Servages. Nate, citi	COUTINGT ITE			-	· · · · · · · · · · · · · · · · · · ·		<b> </b>	1				<del>  </del>		<b>_</b>
		220'-353'							97-	-	-		<u> </u>			<del> </del>
		As above, but trac	es chalco	pyrite a	nd molyb	denite			100%	<del></del>						<del> </del>
		apparent. Rare quartz	veins.	Chalcopy	rite inc	reases			1.00%							
		to weak towards end of	interval	. Samll	shear a	t 353'.	*****									· · ·
		,														
		353'-419'							93-	<u> </u>						
		Light pinkish brow					· ·		100%	ļ						<u> </u>
		and sericite altered h Little alteration, no							ļ	<b>.</b>			<b></b>			<u> </u>
									<del> </del>	<del> </del>				<b> </b>		
		fracturing, very weak	orssemina	tea pyri	Le.				ļ				_{	<del>[</del>		<u> </u>
	<del></del>	The state of the s				···		·····						<u> </u>		<u> </u>
		·								1				ł ·		i

TEXASGUL			_OG						Н	OLE )H 58-	NO.	PAGI	E NO. 2
TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH	DESCRIPTION	F001		REC'Y	Į.	SAM.			ASS	AYS		<del></del>
ETC.	GEUL.		FROM	TO	<u> </u>	GRADE	NO.						
		419'-550'	<b></b>	<u> </u>	98-								
	,	Pale buff (greenish) albitized and sericitized hornblende feldspar porphyry. Patches of remnant pink-brown albite-biotite altered porphyry increasing			100%								
		towards 475'. Very weakly mineralized rock, with sparse quartz veins, 1-2% pyrite, traces chalcopyrite and bornite. Moderate carbonate stockwork.											
		550'-778'		ļ-,-		-							
	1	Pale greenish-buff, strongly hematitic feldspar			96-								
	1	perphyry. Weak to moderate quartz stockwork, almost		<u> </u>	700%								ļ
	<b>.</b>	no pyrite, but moderate copper (chalcopyrite to		ļ <u>-</u> -								<b></b>	ļ
	<del> </del>	bornite 5:1). Mainly moderate quartz-sericite		ļ	ļ								
	<b>-</b>	alteration, but some remnant pink patches of albite-	-		<u> </u>	<u> </u>				•		ļ	<del> </del>
	1	biotite alteration. Moderate hematitic fractures (with chalcopyrite), some hematite sheeting.	1		╂		<b>-</b>				,		
	<del> </del>	Chalcopyrite also in selvages and fine SiO2 "crackling"			<u> </u>	<b>-</b> -			· .				
	┪	After 700', secondary biotite is chloritized.	<u> </u>	ļ	1	1							
	1	Locally, chalcopyrite : bornite = 1:5. Sparse											
		carbonate stockwork throughout.											
				ļ							_	<u> </u>	
	]	778' E-0-H-		ļ <u>.</u>	ļ	ļ							<u> </u>
	↓				<u> </u>							<b> </b>	
	┨──			<del> </del>	<del> </del>	<b> </b>						ļ	ļ.——-
	<b>-</b>			·	<del>-</del>	<u> </u>						<u> </u>	<del> </del>
	<b></b>		-}	<u> </u>		<b>{</b>						ļ	<del> </del>
	<del></del>		<del>                                     </del>	┼			<u> </u>						
	<del> </del>		1	<u> </u>	<del>-  </del>	<u> </u>	<u> </u>						<del>                                     </del>
	1		1	"	1	<b>†</b>			<del> </del> -				
	1			1	1	<b> </b>							
	]					1							
	]												
•	1	l'	1	ł		Į.	5	i •	1		l	1 7	!

PROPERTY:		RED-CHRIS		EXA	ASG	ULF		NC	•					NO. 59-C76	PAG	E NO.
LOCATION:	55,8//	' N 39,240 E		DRII	_L H	OLE	LO	G			•		•			
AZIM: 1800 DIP: -450		ELEV: 5335' LENGTH: 438'				TEST			·							
		CORE SIZE: BQ		<del> </del>	CORRECT	FOOTAGE	READ	NG CO	RRECT	CLAIM	NO: C	IRIS 2, EN	IDS ON R	ED 25		· 
	28, 19		4381	480	390		<del>  .</del> ,_			SECTIO	N: 36	02 + 40 E/ TME/CHBL	<del>1</del> 21	125	<u> </u>	<u>u</u> .
COMPLETED: JUNE PURPOSE:	29, 15	70								DATE L	OGGED:	JUNE 30-C	JULY 8.		LTD.	yme
CORE RECOVERY:					1		1			ASSAY		<u>,· · · · · · · · · · · · · · · · · · ·</u>				
TEXTURE, ALTER'N MINERALIZATION,	GRAPH.	DE	SCRIPTI	ON			F00	TAGE	REC'	<b>′</b> !	SAM.		AS	SAYS	<u>-</u>	<del></del>
ETC.	GEOL.						FROM	то	<u> </u>	GRADE	NO.					
		o'-13' Overburden							<u> </u>	<u> </u>	ļ					ļ
·									-	-						ļ
		13'-120'				,		-	90-		<b> </b>				<b></b>	<del> </del>
		Yellowish buff to altered feldspar porp	grey stroi hvrv. Stri	ngiy qua nng nyri	rtz-seri tic frac	cite turina	•		99%	<del> </del>	<u> </u>			-	<del>  </del>	1
		and disseminated pyri								<del> </del>	<del> </del>	<del>  -</del>				
	<u> </u>	veining and chalcopyr	ite. Some	pervasi	ve carbo:	nate			1	1	†					
		alteration and carbon	ate veinin	g. Occa	sional s	hearing		<u> </u>	1		<u> </u>					
		and gouge, 70'-100'.							1							
		Light_yellow-gree	n sericiti:	zation a	ppears t	o be									ļ	
·		earlier, associated w	ith weak q	uartz/ch	alcopyri	te/				1	<u> </u>					
		hematite mineralizati strong dark grey-gree				er			1		ļ	ļ			<u> </u>	ļ
		scrong dark grey-gree	11 Yuai (2/ 5		by i i ce .				1	<u> </u>	<b> </b>				<b></b>	-
		120'-168							93-		<del> </del>					
		Rock as above sec	tion but m	uch bett	er guart				100%	<del> </del>	<del>                                     </del>	<u> </u>	<u>.                                    </u>			
· · · · · · · · · · · · · · · · · · ·		veining and chalcopyr							1.00%							
		local crackle breccia														
		760 1701 5-114 6-1-							00%	ļ						<u> </u>
	<del>}</del>	168'-172' Fault Goug	e 						98%	- <del> </del>	<b></b>				<u> </u>	<b>}</b>
		172'-310'	· · · · · · · · · · · · · · · · · · ·		<del> </del>				97-	-	-					
·					20d) to	0.000.000			100%	<del> </del>						
		Dark greenish gre (albite-magnetite-chl norphyryAbundant_m	orite-epid	ote-alte	red), fe	ldspar			100%							The transfer of

TEXASGUL	.F	INC. DRILL HOLE L	.OG						<i>(0.11.</i> 1	HOLE DDH 5	<b>NO.</b> 9-C76	PAG	E NO. 2
TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION		TAGE	RE C'Y	EST. GRADE	٠,			AS	SAYS	,	
<b>L</b> 10.			FROM	то	<b>_</b>	GRADE	NO.						<del> </del>
	<u> </u>	to moderate, locally strong quartz stockwork veining,		ļ				<b> </b>		ļ. <u>.</u>			ļ
	ļ	moderate chalcopyrite. Pyrite content + 5%. Scattered carbonate veins.		ļ						<del> </del>			ļ
	· · · · · · · ·		<b></b>	ļ				ļ		ļ			<del> </del>
		Chalcopyrite is very fine and mixed with pyrite, as disseminations, in veins and in vein selvage.		<u> </u>	<u> </u>	, ,	, <u> </u>			<u> </u> 			
.=		228'-232' Birds Eye Dyke, carbonate amygdules.											
	<u> </u>	310'-438'	<b>-</b>	╁	98-								<del> </del>
	·	Strongly quartz-sericite altered, grey to greenish		<del> </del>	100%					-			<del> </del>
	1	feldspar porphyry. Texture of original rock sometimes			10076								<b></b>
		obliterated. Strong pyrite, weak to moderate quartz		1	<u> </u>								
		stockwork with moderate chalcopyrite. Local carbonate											
		stockwork and carbonate breccia. Moderate hematite								<del> </del>			
		disseminated.											<u> </u>
	- 1							-					
		438' E.O.H.											
					1					<b>†</b>			t
									•	1		-	
												<del></del> ,	
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				]						1			
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				}									
							/ <u></u>			<u> </u>			
										1	-		
	· · · · ·				<u> </u>	· · · · · · · · · · · · · · · · · · ·				]	1		İ

											#1	6111				••••
PROPERTY:	RED-CHRIS	1	EXA	\SG	ULF	•	NC	•			·		HOLE DDH	NO. 60-R76		E NO. 1
LOCATION: 55,91	2 N 39,620 E		DRIL	_L H	OLE	LO	G									
AZIM: 1800 DIP: -450	ELEV: 5330' LENGTH: 348'				TEST											
	core size: 80	FOOTAGE	READING	CORRECT	FOOTAGE	READ	NG CO	RECT	CLAIM	NO:	RED 25	5				
STARTED: JUNE 29	, 1976	348'	520	440					SECTIO		396 EA				1.	
COMPLETED: JUNE 30	, 1976		}						LOGGE	BY:	TME			.K. for	rsuft	æ
PURPOSE:						]	i		DATE L	OGGED:	JULY 8	B-JULY				
						<u> </u>			DRILLIN	VG CO:	D.W. (	COATES	ENTERI	PRISES L	TD.	
CORE RECOVERY:		<u> </u>	<u> </u>	<u> </u>					ASSAYE	ED BY:					·	
TEXTURE, ALTER'N, GRAPH MINERALIZATION, GEOL.	DES	CRIPTI	ON			FOO	TAGE	REC'Y	EST.	ì			ASS	SAYS		
ETC. GEOL.	· · · · · · · · · · · · · · · · · · ·					FROM	TO		GRADE	NO.						
	0'-28' Overburden								<u> </u>	ļ	· .		<u> </u>			
									<u> </u>				<u> </u>		<u> </u>	<b></b>
	28'-220'		<del></del>					50-	<u> </u>	<u> </u>		ļ	<del> </del> -			ļ
	Light grey, strongl feldspar porphyry. Pat	y quartz	-sericite	e altere	d fice			100%		<b> </b>				-		······································
					· <del></del>			-	ļ		ļ	<b> </b>		<del>  </del>		
	tion, but very few quar chalcopyrite. Shearing	tz or py with so	<u>rite vei</u> me tourm	nlets. aline is	No					<b></b>			<u> </u>			
	common. Minor carbonat	e veinin	g, traces	s gypsum									1			
	fracturing.		•													
	220'-348'							95-								İ
<u>_</u>	Light cream to grey	-green_m	ottled fo	eldspar				100%		<u> </u>			ļ			
	porphyry, strongly quar	tz-seric	ite alte	red. Ab	out			<u> </u>					<u> </u>			<u> </u>
	5% pyrite, moderate cha	····		•				ļ	<u> </u>	ļ		ļ	ļ	<u> </u>		· · ·
	stockwork. Stockworkin	g and ch	alcopyri	te dimin	ish				ļ		<b></b>		<u> </u>	<del>                                     </del>		
	towards end of hole. L				ing,		··· ·-	ļ	<b> </b>	<u> </u>	<u> </u>	<b>!</b>	-	1	<del></del>	
	minor countaine ractu	ring, un	aces spin	alerice.				<del> </del> -	<u> </u>		ļ		<u> </u>	<del> </del>		
	283.7'-297.4' Birds Ey	o Duko i	ntownint.	r minova	lizad			ļ		<u> </u>	ļ	ļ		1 1		
	283.7'-297.4' Birds Ey section.							<del> </del>	ļ		<del> </del> -			<del>                                     </del>		
	core axi						<u>-</u>	<del> </del> -			<b> </b>	<del> </del>		<del> </del>		<u></u>
	COTE AXI	٥,			~· <del>~</del>		<u>.</u>	<del> </del>	<del> </del>		<del>                                     </del>					
	348' E.O.H.							<del> </del>	† <del></del>		<b> </b>	<u> </u>		<del>                                     </del>		
								<b></b>			<b></b>	<del> </del>	1			<del></del>
				•	[			ļ	I	· · · · ·	<b>}</b>	1		<b>!</b>		

PROPERTY:	RED-CHRIS	T	ΞXA	SGI	JLF		NC	•				HOLE DDH (	NO. 51-C76	PAGE	E NO.
Approx, 53	,860 N 35,600 E	-	DRIL	L H	OLE	LO	G					•			
AZIM: 1800 DIP: _400	ELEV: Approx. 5120' LENGTH: 438'				TEST		·								
	CORE SIZE: BQ	FOOTAGE I		<del> </del>	FOOTAGE	READI	NG CO	RRECT	CLAIM		CHRIS 9	·			
STARTED: JULY 1, 19 COMPLETED: JULY 2, 19		428'	44°	360					LOGGE	<del></del>	356 E JMN/TME	t	DD.	#	
PURPOSE:	70				<u> </u>						JULY 10,	3076 311	. <del>K.Y</del>	124 IM	<u></u>
	· · · · · · · · · · · · · · · · · · ·					1			DRILLI	NG CO:	D.W. COAT	TES ENTER	RPRISES I	<i>17.</i> 0 ⊱TD.	<del></del>
CORE RECOVERY:						<u> </u>			ASSAY	ED BY:					
TEXTURE, ALTER'N, GRAPH MINERALIZATION, GEOL.	DES	CRIPTIO	N			FOO	TAGE	REC'	EST.	1		AS	SAYS		
ETC. GEOL.						FROM	TO		GRADE	NO.					
	0'-23' Overburden								<u> </u>	ļ			11		
								<u> </u>	-						<b></b>
· · · · · · · · · · · · · · · · · · ·	23'-48'			1-4 <b>6</b> -14				10-15	4						<u> </u>
	Pale creamy buff to porphyry. Strong quart							-	1			<u> </u>			
	quartz stockwork. Wea	•		· ·				1	<del> </del>	-	1		+		
	moderate sooty black cl	nalcocite d	coating	s on sult	fides.	·									
	Most fractures limonite	e-coated.							ļ						
	401 001	······································						100	1						<u> </u>
	48'-88'							25-	<b>.</b>	<u> </u>			1		
	Grey quartz sericit crackle breccia, short	tized felds	spar por	rphyry : :	some			40%	<u> </u>						<u> </u>
	quartz stockwork, fine								1				-		-
	pyrite, weak chalcopyri							· · · · · · · · · · · · · · · · · · ·							
	88'-108' Fault zone-bi	roken and c	rushed	rock.				85-							
						· · · · · · · · · · · · · · · · · · ·		95%	<u>. </u>	1					ļ
	1001 7571							0=	<b></b>						<u> </u>
	108'-157' Pale grey, strongly	/ quartz-se	ricite	altered	feld-		: "	100%			<b> </b>	<u> </u>			
	spar porphyry, becoming							100 %			<del>  </del>			·	<u> </u>
	quartz and pyrite vein							<del> </del>	<b> </b>	<b> </b>			1		
	carbonate veinlets.		, ,					<b>1</b>		<del> </del>			1		
			. 4			i			1						
					· · · · · · · · · · · · · · · · · · ·			1	1	1	1		1		i

#6111 HOLE NO. PAGE NO. TEXASGULF INC. DRILL HOLE LOG DDH 61-C76 TEXTURE, ALTER'N GRAPH MINERALIZATION, GEOL. FOOTAGE EST. SAM. **ASSAYS** RECY DESCRIPTION GRADE NO. FROM ! TO. 157' 4" dyke of Birds Eye Porphyry on thin gouge. 1571-2051 98-Grey mottled feldspar porphyry, moderate quartz -100% sericite alteration. Moderate quartz-pyrite stockwork with weak chalcopyrite. Local weak crackle breccia. Traces sphalerite noted in carbonate veins. 205'-253' 99-Highly altered but unmineralized, buff-pink 100% (albitized) feldspar porhyry. Weak disseminated pyrite essentially no quartz or pyrite veinlets. Vague intrusive breccia texture evident, from 223'-233', with a sharp contact at 233'. Small fault gouges at beginning and end of section, with carbonate cement. 253'-275' Buff crackle breccia, moderate pyrite and 98weak chalcopyrite. 99% 275'-284' Dyke of late barren phase grey feldspar perphyry on brecciated contmacts, with disseminated sphalerite. 284'-379' 98-Strongly altered grey to buff feldspar 100% porphyry (quartz-sericitized). Weak quartz stockwork, moderate chalcopyrite locally. Less altered, completely unveined, dark 3791-4281 95greenish grey hornblende feldspar porphyry 100% (late barren phase dyke). Minor pyrite. 428' E.O.H.

										•		#611	//			
PROPERTY:	RED-CHRIS	TE	ΧΔ	SGI	JLF	1	NC.	•	<b>, , , , , , , , , , , , , , , , , , , </b>	·		7.101	HOLE	<b>N</b> O. 62-R76	PAGI	E NO.
LOCATION:	55,500 N 40,222 E	_ [	ORIL	LH	OLE	LO	G									
AZIM: 3600 DIP: -450	ELEV: 5230' LENGTH: 58'	<del></del>		DIP	TEST											
טור.	CORE SIZE: BQ	FOOTAGE RE	FADING			DEAD	NG LCOS	PECT	CLAIM .	NO.	RED 2	E .				
STARTED: JULY 3,		- HOOTAGE INC	LADINO :	OOMALOT	OOTAGE	INCAU	113   001		SECTIO		402 E					
COMPLETED: JULY 4,									LOGGEO		TME		17	R.70	- th	<u> </u>
PURPOSE:	1370	-		<del> </del>	·				DATE L			10 10	~ 1	13. 10.	1	
							<u> </u>		DRILLIN	16 CO:	<del>-ՄՍԵՐ</del> Ո.W. մ	<del>10, 1</del> 9 COATES	FNTFR	PRISES	LTD.	
CORE RECOVERY:									ASSAYE	D BY:						
TEXTURE, ALTER'N, GRA	PH. DE	SCRIPTION	4			F00	TAGE	REC'Y	· •	SAM.			ASS	AYS		
MINERALIZATION, GEO						FROM	то	<u> </u>	GRADE	NO.						
	0'-30' Overburden				·			<u> </u>	<u> </u>					<u> </u>	·	
					·			<u> </u>	<b></b>	<b> </b>			ļ			
	30'-30.3' Birds Eye	Dyke Rock							<del></del>	<u> </u>	ļ	ļ 	<u> </u>	<del> </del>		<b></b>
<u> </u>	000   431							0.5%					1			
	303 '-41' Fragments of stro	nolv altered	Conari	tz-serio	itized		· · · · · · ·	25%	<b>-</b>		<u> </u>	<u> </u>	<u> </u>			
	<del></del>									<del> </del>			-			
	feldspar porphyry. ( Some rounded pebbles	give the imp	ression	n that t	he			ļ					<del> </del>			<i>.</i>
	rock is still overbu	rden.				· .							<del> </del>			
													1			
	41'-58'							25-								
	Faintly banded Bo Bedding about 45° to	owser Lake Gr	oup bla	ack silt	stones.			60%				1				
	Bedding about 45° to	core axis.		<del></del>	<u>:</u>	<del></del>		ļ <u></u>					ļ			ļ
		<del></del>									<u> </u>		ļ			
<del></del>	58' E.O.H.								1				<del> </del>		-	
			·						٠.				<del> </del> -			
								ļ <u>-</u>	-				<u> </u>			
									<del> </del>				<u> </u>			
				· · · · · · · · · · · · · · · · · · ·				<u> </u>	-				<u> </u>			i
			· · <b>-··</b>				· · · · · · · · · · · · · · · · · · ·		<b>1</b>							
						<del>-</del>		<b> </b>	1							
	**************************************															
		· · · · · · · · · · · · · · · · · · ·														
2	•									•						

	,	RED-CHRIS		EXA	ASGI	ULF	•	NC	<b>)</b> .		<b>*</b>		HOLE DDH	NO. 63-R76	PAG	E NO
LOCATION: 55,	500 <u>N</u>	_40,222 E		DRII	_L H	OLF	10	G								
AZIM:		ELEV: 52301		<i>D</i>	_	<b>VL L</b>	- C	•								
DIP: 900		LENGTH: 238'	_		DIP	TEST					,	•				
		CORE SIZE: BQ	FOOTAGE	READING	CORRECT	FOOTAGE	READ	NG CC	DRRECT	CLAIM	NO:	RED 25				
STARTED: JIII	Y 5, 1		238'	870	86 <sup>0</sup>		1			SECTIO	N:	402 EAST				
	Y 6, 1		-		1		1			LOGGE	BY:	TME	· <del>t ·····</del>	15,	brew	the
PURPOSE:										DATE L	OGGED:	JULY 10-	711 Y 11.			1
					·					DRILLIN	G CO:	D.W. COA	TES ENTE	RPRISES	LTD.	
CORE RECOVERY:										ASSAYE	ED BY:					
TEXTURE, ALTER'N,	RAPH						F00'	TAGE		EST.	SAM.		ASS	SAYS		
MINERALIZATION,	GEOL.	DE	SCRIPTI	ON				,	REC'Y	GRADE			1	1		<del>,</del>
E I U.		01 051 0			· · · · · · · · · · · · · · · · · · ·		FROM	70		<del> </del>		<del> </del>				ļ
		0'-35' Overburden				·			-	<b></b>						<del> </del>
<del> </del>		351-481		<del></del>				<u> </u>	1-20%							
		Chips of mainly h	nhlv alte	red (qua	rtz/spri	citized)		<b></b>	1-20%	<b>-</b>	<b> </b>					<u> </u>
<del></del>		feldspar porphyry.	ighty area	ica įgaa	1 02/ 301 1	<u>Citized</u>				<b>-</b>						<del>                                     </del>
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1		48'-61'							14%	1	ļ ———					
		Massive but uncohe	sive unh	anded Ro	wser la	ka										
		Group siltstone.	. <u></u>	unded Do		17/	en transcription of the decide of the			<u> </u>	<del> </del>					
		61'-128'	· · ·						90-		ļ				ĺ	
		Lightly banded Box	vser silts	tone, be	dding 83	o to			100%				İ			
		core axis.														
		128'-135'							97%							
		Fault zone-gouge a	ind sheare	d fragme	nts.			<u> </u>			<u> </u>				ļ.,	<u> </u>
			<del></del>				i	<u> </u>		<u> </u>	ļ					<u> </u>
		135'-165'	·					<u> </u>	91-						ļ	<u> </u>
		Banded brownish b	ack Bowse	<u>r siltst</u>	one, bed	ding		<u> </u>	100%							
		500 to core axis.						<b> </b>		<b></b>						<u> </u>
		7.551 7.561							- 0.54	<b>_</b>	ļ	<b> </b>			ļ	<b> </b>
		165'~195'		anima (a. a. a. a. a. a. a. a. a. a. a. a. a. a	······		,		96%					-		<del> </del>
		Massive brownish b	lack Bows	<u>er silts</u>	tone.						<b>.</b>	<b> </b>		ļ <u>.</u>		<del> </del> -
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TEXASGUL	F	INC. DRILL HOLE	LOG	·			¥611			HOLE DDH 6:	<b>NO.</b> 3-R76	PAGE 2	E NO
EXTURE, ALTER'N ON INERALIZATION, CETC.	RAPH	DESCRIPTION	F007	rage .	RECY	EST.	ŧ I			ASS	AYS		
ETC.	BEUL.		FROM	то	<u> </u>	GRADE	NO.		·				
		195'-210'			100%							<del></del>	
		Bedding = 60° to core axis.		<b> </b>	ļ	<b>]</b>				<u> </u>			
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		210'-238'		ļ	62-97	¥							
		Massive Bowser siltstones, fault at 219'-225'.		<u> </u>	·				······································	ļ			
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		238' E.O.H.		<u> </u>	ļ	<del> </del>	-						
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#6111 HOLE NO. PAGE NO. TEXASGULF INC. PROPERTY: DDH 64-R76 RED-CHRIS 56,640 N 39,830 E LOCATION: DRILL HOLE LOG 1800 53301 AZIM: ELEV: -450 5781 LENGTH: DIP TEST DIP: CORE SIZE: BO FOOTAGE READING CORRECT FOOTAGE READING CORRECT CLAIM NO: RED 25 JULY 21, 1976 398 EAST STARTED: SECTION: 530 440 5771 COMPLETED: LOGGED BY: TME/CHBL JULY 23, 1976 PURPOSE: DATE LOGGED: JULY 21-JULY 23, 1976 D.W. COATES ENTERPRISES LTD. DRILLING CO: CORE RECOVERY: ASSAYED BY: TEXTURE, ALTER'N, GRAPH FOOTAGE MINERALIZATION, GEOL. EST. SAM. **ASSAYS** REC'Y DESCRIPTION GRADEL NO. ETC. FROM ΤO 0-37' Overburden 37'-160' 92-Grev-green moderately quartz-sericite-100% carbonate altered feldspar porphyry, locally mottled. Moderate pyrite, traces chalcopyrite. Occasional quartz veins with very weak chalcopyrite, MoSz. Minor sphalerite in carbonate veins. Rare red hematite, short sections of orange albitic alteration near 125', increasing to 160'. 160'-333' 94-Grey-buff variably quartz-sericite or albitized 100% feldspar porphyry. Weak to locally moderate quartz vein stockworking, local carbonate stockwork. Intimate fine pyrite/chalcopyrite mixtures. Short sections strongly mottled feldspar porphyry. Quartz crackling and stockworking with chalcopyrite increase downwards to 330' where stockwork is intense (cut off by small Birds Eye Dyke from 331.6'-333', on thin gouge).

HOLE NO. PAGE NO. TEXASGULF INC. DDH 65-R76 PROPERTY: RED-CHRIS LOCATION: 56,390 N 39,400 E DRILL HOLE LOG ELEV: AZIM: 1800 53501 DIP TEST LENGTH: 523' DIP: -600 FOOTAGE READING CORRECT FOOTAGE READING CORRECT CORE SIZE: BO CLAIM NO: RED 25 SECTION: 394 EAST 660 5221 590 STARTED: JULY 23, 1976 LOGGED BY: TME/CHBL JULY 25, 1976 COMPLETED: DATE LOGGED: JULY 24 -JULY 25, 1976 PURPOSE: DRILLING CO: D.W. COATES ENTERPRISES LTD. ASSAYED BY: CORE RECOVERY: TEXTURE, ALTER'N, GRAPH FOOTAGE EST. | SAM. ASSAYS MINERALIZATION, GEOL. REC'Y DESCRIPTION GRADEL NO. ETC. FROM TO 0-23' Overburden\_ 90-231 - 3011 Distinct to vague igneous (instrusive) breccia 100% consisting of 2 - 20 cm. subrounded fragments of whitish, more equigranular feldspar porphyry in a grey, finer-grained, siliceous matrix. Unstockworked rock, no pyrite fractures. Strong pervasive pyrite. no chalcopyrite. Rare fragments of stockworked feldspar porphyry. Grey to tan Birds Eye Dyke on 73'-77' sheared contacts (tourmaline and pyrite in shears). Shearing, some gouge. 116'-120' Quartz veins with minor hematite and 1301 chalcopyrite appear to cut both matrix and fragments. Traces MoS2. Allochtonous fragments of pink albite/ 1651 biotite altered porphyry. Strongly altered breccia of light grey mottled feldspar porphyry in a blackist

(tourmalinized) matrix. Moderate

pyrite, occasional short gouge sections, some carbonate-cemeted

breccia.

TEXASGUL	F	INC. DRILL HOLE I	_OG						1	HOLE DDH 65		PAG	E NO. 2
TEXTURE,ALTER'N MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION	<u> </u>	TAGE	REC'Y	EST.	l !			ASS	SAYS		
210.			FROM	TO	<del> </del>	GRADE	NO.		<u> </u>				
		301'-344'		<del> </del>	97~							<u> </u>	
		Grey mottled feldspar porphyry, contact with	ļ <u>-</u>	<u> </u>	100%								
	,	breccia above indistinct over 1.0'. Moderate to intense quartz-sericite alteration, strong pyrite.  Some very fine chalcopyrite in weak quartz stockwork-									·		
		ing and crackling.	<del> </del>	<b></b>	<del> </del>	-							
		ring und Crack ring.	<b> </b>		<u> </u>								
		344'-390'	<del> </del>		89-							·	
·		Distinct to vague grey-buff intrusive breccia as	†	<u> </u>	99%								
	1	23'-301'; but with strongly mixed fragments (white to			1								
		bright apple-green, aphanitic to porphyritic).		1	1								
		Distinctly unstockworked. Moderate pyrite.	<u> </u>										
		385'-390' Shattered rock, some fault gouge.							1				
		390'-400'											
		Mottled feldspar porphyry, weak quartz stock-			99%								
- The state of the		working with weak chalcopyrite.											
			l										,
		400'-421' Fault gouge, fault breccia. Two small Birds Eye Dykes, 404'-406' and 409'-411'.	Ī		65-								
	[	Birds Eye Dykes, 404'-406' and 409'-411'.		<u></u>	98%								
			<b>.</b>	<u> </u>									
		421'-523'			92-								
		Grey mottled feldspar porphyry, moderate quartz-		ļ	100%								
		sericite-pyrite alteration. Rare carbonate veins,					·						
· · · · · · · · · · · · · · · · · · ·		occasional quartz veins, minor chalcopyrite. Short		ļ	<u> </u>								
		sections of fault gouge, black tourmaline/pyrite		ļ									
		replacement. Minor red hematite, traces MoS <sub>2</sub> .		<u> </u>	ļ								
		COAL C A U	<u></u>	<b>_</b>									
		523' E.O.H.											
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PAGE NO. HOLE NO. TEXASGULF INC. DDH 66-C76 PROPERTY: RED-CHRIS LOCATION: 56.070 N 38.400 E DRILL HOLE LOG 5360' AZIM: 1800 ELEV: DIP TEST DIP: -45 808 LENGTH: CHRIS 2 FOOTAGE READING CORRECT FOOTAGE READING CORRECT CLAIM NO: BQ CORE SIZE: 384 EAST 440 SECTION: 8081 JULY 25, 1976 STARTED: LOGGED BY: TME/CHBL COMPLETED: JULY 28, 1976 DATE LOGGED: JULY 26-JULY 29, 1976 DRILLING CO: D.W. COATES ENTERPRISES LTD. PURPOSE: ASSAYED BY: CORE RECOVERY: TEXTURE, ALTER'N, GRAPH. **ASSAYS** EST. SAM. FOOTAGE REC'Y MINERALIZATION, GEOL. DESCRIPTION GRADE NO. TO FROM ETC. 0-30' Overburden 75-30'-330' 100% Cream to grey strongly quartz-sericite altered feldspar porphyry. Local intense quartz crackling and crackle breccia, with moderate chalcopyrite throughout. Weak to moderate quartz stockworking. Moderate to strong pyrite, local carbonate stockwork. Rare remnants orangey albite altered porphyry. Minor disseminated red hematite common. Very strong, pervasive, fine pyrite. 290'-330' Tourmaline fracturing. 90-330'-375' 100% Black pyritic breccia. Sulfide occurs mainly as a matrix. Locally the sulfide breccia changes to a siliceous crackle breccia. Fragments of both rock and vein are included. Chalcopyrite is very fine, weakens to 360' then strengthens markedly. 340'-342' Birds Eye Dyke (carbonate amygdules in a fine felted grey matrix).

TEXASGUL	.F	INC. DRILL HOLE L	_OG					 HOLE DDH (	<b>NO.</b> 6-C76	PAG	E NO.
TEXTURE,ALTER'N MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION		TAGE	REC'Y	EST. GRADE	SAM.	AS	SAYS		
E 10.			FROM	TO		GNADE	NO.	 	ļ		
	ļ .	375'-401.4' Variable grey to black hornblende feldspar	ļ	<del> </del> .	100%			 	<del> </del>		
	<b> </b>		<del> </del>	<del></del>	<b></b>			 	<del> </del>	<del> </del> -	ļ —
		porphyry. Well altered to quartz, sericite, carbonate, but texture preserved. Silica-pyrite flooded ground-mass, moderate quartz stockworking. From 395'-401.4',									
		a greenish stockworked phase (possibly hornfelsed).	Ī								
	<b></b>		<del> </del>		1			 	-		<u> </u>
	<b></b>	401.4'-487.2' Buffish grey weakly altered late barren phase	<del> </del>	<del>                                     </del>	99- 100%			 	<del></del>		<del>                                     </del>
		hornblende feldspar porphyry. No quartz stockworking or chalcopyrite, only minor pyritic fracturing and			100%	_					-
		disseminated pyrite. Towards middle of dyke, rock becomes green and chloritic ("hornblende syenodiorite")									
		Some chilling and flow-banding of the sharp contacts.				_					
		487.2'-636'	<del> </del>		96-				<del>                                     </del>		<b></b>
		Greenish to grey or cream, strongly to intensely	1		100%				1		
		altered hornblende feldspar porphyry. Intense to moderate quartz stockwork veining. Strong magnetite (hematite) locally. Rare, green chlorite/pink albite/									
		magnetite alteration. Occasional banded quartz- sulfides. Strong pyrite and chalco_pyrite. Short sections of "mottled" porphyry (pyrite/sericite									
		replacing hormblendes).	ļ	<del> </del>				 	<b> </b>	ļ	<b>-</b>
		- 607'-612' Fault Gouge.		<u> </u>				 	<del> </del>		
·		636'-728.1'	ļ		94-			 			
			<del> </del>		100%		<del> -</del>		<u> </u>		<u> </u>
		Cream to light grey, weakly altered, late barren phase crowded hornblende feldspar porphyry. No quartz stockworking, weak pyrite, traces chalcopyrite. Sharp	<b>†</b>		100%	·					
		contact, 1/4 " chilled selvage at edge. 710'-715' Grey-buff Birds Eye Dyke, fine									
	·	carbonate_amygdules								· ·	
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ETC.	GEOL.		FROM	то	<u> </u>	GRADE	NU.						<del></del>
		728.1'-808'			98-							——-	
		Grey to buff hornblende feldspar porphyry. Moderate quartz-sericite alteration, weak quartz		ļ <u> </u>	100%					·····			
	,			ļ	<u> </u>								<b> </b>
		stockworking, but steady moderate disseminated chalcopyrite (very fine, mixed with pyrite). Fine											
· · · · · · · · · · · · · · · · · · ·	<b></b>	quartz "crackling" carrying chalcopyrite is common.							; 			· · · · · ·	<b></b> _
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		808' E.O.H.				<u> </u>							<u> </u>
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ASSAYED BY:

HOLE NO. DDH 67-C76 PAGE NO.

# PROPERTY: RED-CHRIS TEXASGULF INC. LOCATION: 55,800 N 38,400 E DRILL HOLE LOG

AZIM: 1800 ELEV: 5375'
DIP: -450 LENGTH: 558'
CORE SIZE: BQ

JULY 29, 1976

STARTED:

DIP TEST
FOOTAGE READING CORRECT FOOTAGE READING CORRECT

430

510

CLAIM NO: CHRIS 2

SECTION: 384 EAST
LOGGED BY: CHBL/TME

DATE LOGGED: JULY 29-JULY 31, 1976

DRILLING CO: D.W. COATES ENTERPRISES LTD.

COMPLETED: JULY 30,	1976	·	558'	500	410	 	
PURPOSE:						 	
	* * · · ·					 	
CORE RECOVERY:						 <u> </u>	

4581

CORE RECOVERS:											<del></del>		
TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH. GEOL.	DESCRIPTION	FOO'	TAGE	REC'Y	EST. GRADE	5 I		-	ASS	AYS	T	
ETC.	<u> </u>		1	<del>                                     </del>	<del> </del>	-					****		
		0-22' Overburden			·	<u> </u>							
				ļ	<del> </del>	<del> </del>	<b></b>						
		22'-51'			95=	<b> </b>						<u></u>	
		Cream to grey weakly quartz-sericite altered		<u> </u>	100%	<u> </u>						<u> </u>	
		late barren phase hornblende feldspar porphyry.			<u> </u>	<u> </u>	<b></b>						
		No quartz stockworking, only very minor pyrite	<u>;                                    </u>		<b>_</b>	<u> </u>	<u> </u>					<u> </u>	
		fracturing, weak disseminated pyrite, no chalcopyrite.				<u> </u>						<u></u>	
		Slightly chilled, greenish contract phase at margin.	1		1								·
		Sharp contacts, several xenoliths of stockworked rocks.				I							
				i									
<u> </u>		51'-311'			94-	1							111
· · · · · · · · · · · · · · · · · · ·		Strongly quartz-sericite altered feldspar porphyry			100%								
		with remnants of orangey albite-magnetite alteration.	<u> </u>	<u> </u>									
		Weak to locally moderate quartz stockworking, local	t —	1			,						
		quartz crackle breccia. Some disseminated red		<del>                                     </del>		†						1	
	<b>-</b>	hematite (after magnetite). Generally strong pyrite,	<del> </del>	<del> </del>		<del> </del>				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		moderate chalcopyrite, traces bornite. Grey-green	<b></b>	-	1							<del>                                     </del>	
		quartz-sericite selvages to fractures crosscut and		<del> </del>	<del> </del>	<del> </del>	<b></b>	<del></del>					
				ļ <u></u>	1							<b> </b>	
		destroy orange feldspar alteration. Sparse tourmaline		<del> </del>	<u> </u>							<del> </del>	
		fractures.		ļ	1	<b> </b>						<b> </b>	
		80'-90' Fault gouge, broken rock.		<u> </u>	<u> </u>							<b> </b>	
· · · · · · · · · · · · · · · · · · ·				<b></b>	<b></b>							<b></b>	
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TEXASGULF INC. DRILL HOLE LOG						HOLE NO. DDH 67-C76		PAGE NO.						
TEXTURE, ALTER'N MINERAL IZATION, ETC.		GRAPH		F001	AGE	REC'Y	EST.				ASS	AYS		
			FROM	TO		GRADE	NU.					ļ		
		311'-339'	1		99-				ļ	<del>                                     </del>		<u> </u>	· · · · ·	
	•	Weakly altered grey late barren phase hornblende feldspar porphyry. Buff carbonatized hornblende relics. No quartz stockworking or chalcopyrite. Contacts sharp, cutting off quartz veins in rock above.			100%								3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Weak foliation and small xenoliths in late-stage dyke near upper contact.	· · · · · · · · · · · · · · · · · · ·								-			
		339'-558'			97-	<b></b>								
		Light to dark grey strongly to intensely quartz sericite-pyrite altered feldspar porphyry. Texture destroyed. Rare remnants of orange to pink albite alteration. Very weak quartz stockworking, moderate			100%									
		pyrite fracturing. Weak chalcopyrite, mainly as fine		ļ	ļ	1		<b> </b>	11.11		ļ	<u> </u>	ļ	
		disseminations. Local strong tourmaline fracturing.  Traces MoSz noted. Strong silicification 465'-490'.  Quartz veining increases to weak at bottom of hole.							N ( )					
		390'-397' Grey to tan Birds Eye Dyke, large white carbonate amygdules.							· .					
		558' E.O.H.												
			<u> </u>							1				
	1				A.L. MALLON,		. <u></u>							
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# APPENDIX E:

### STATEMENT OF QUALIFICATIONS,

J.R. Forsythe C.H.B. Leitch T.M. Elliot

#### APPENDIX D:

#### DIAMOND DRILLING SUMMARY

$\bigcirc$	DRILL HOLE	CO-ORI N	DINATES E	ELEV.	AZIMUTH	DIP	DEPTH	OVER- BURDEN
	DDH 23-C76	56,529	38,221	53861	180°	-45°	#798'-1166'	22'
	DDH 49-C76	55,971	38,619	5367'	225°	-45°	#697'-778'	22'
	DDH 50-R76~	56,969	40,224	5316'	180°	-45°	708'	22'
	DDH 51-R76	57,055	40,428	53051	180°	-45°	668'	14'
	DDH 52-R76~	57,222	40,822	5284'	180°	-45°	697'	25'
	DDH 53A-R76	57,242	41,425	5215'	180°	-45°	119'	20'
+	UD: , UU U	57,242	41,425	5215'	180°	-44°	53'-498'	201
	DDH 54-R76-	57,031	41,017	5243'	180°	-45°	156'	13'
	DDH 55-R76	57,544	41,428	5 <b>2</b> 40'	180°	-45°	777'	15'
	DDH 56-R76	57,265	41,219	<b>5246</b>	180°	-45°	498'	45'
	DDH 57-R76	57,565	41,026	5284	180°	-45°	7781	23'
	DDH 58-R76~	57,493	40,628	5304'	180°	-45°	7781	23'
	DDH 59-R76-	55,862	39,241	5338'	180°	-45°	438 '	13'
	DDH 60-R76	55,918	39,620	5325'	180°	-45°	348'	281
	DDH-61-C76	x53,860	x35,600	x5182'	180°	-40°	438'	231
	DDH 62-R76	55,509	40,225	5242'	360°	-45°	58'	30'
	DDH 63-R76	55,509	40,225	5242'		-90°	238'	30'
	DDH 64-R76	56,634	39,822	5332'	180°	-45°	5781	37
	DDH 65-R76	56,387	39,423	5343'	180°	-60°	523'	231
	DDH 66-R76	56,036	38,422	5368'	180°	-45°	808'	30'
	DDH 67-R76	55,774	38,432	5377'	180°	-45°	558 '	22'

Total Footage Drilled = 10,150' BQ Wireline

- \* Elevation Not Surveyed
- # Deepening of 1975 Holes
- + Drilled From Same Site as 53A
- x Approximate Coordinates Only

# APPENDIX D:

DIAMOND DRILLING SUMMARY

#### J.R. FORSYTHE - Project Geologist

J.R. Forsythe obtained his B.Sc. degree in Geology from the University of British Columbia in 1968. He has been continuously employed as a geologist, by Texasgulf Inc. since 1969 and has broad experience in porphyry copper exploration in B.C. and the Yukon Territory.

#### C.H.B. LEITCH - Geologist

C.H.B. Leitch obtained a B.Sc. (Eng.) degree in Geological Engineering at Queen's University in 1971, and received an M. Phil. degree in Mining Geology at Imperial College in London in June 1975. He has worked for Newmont Mining Corp. in B.C. and the Yukon Territory, Kennecott Explorations Pty. in Australia, and Getty Mines Ltd. in B.C. and Alberta before joining Texasgulf's temporary staff for the summer of 1976.

#### T.M. ELLIOT - Geologist

T.M. Elliot received a B.Sc. degree in Geology in 1967 from the University of British Columbia, and an M.S. in Economic Geology from Stanford University in California in 1973. Since 1965, he has worked for Coast Range Explorations and Cominco in B.C., for the B.C. Dept. of Mines in south-central B.C., and for Amax in Montana and Washington. He joined Texasgulf Inc.'s temporary staff for the summer of 1976.

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