

COMINCO LTD.

EXPLORATION DIVISION

WESTERN DISTRICT

Diamond Drilling Report

on

Steamboat Group

82K/9

Golden Mining Division

Report by:

G.L. WEBBER

Cominco Ltd.
Kootenay Exploration
2450 Cranbrook Street
Cranbrook, B.C.

under the supervision of:

D.W. HEDDLE, P. Eng.

6200

MINERAL RESOURCES BRANCH ASSESSMENT REPORT NO. _____
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TABLE OF CONTENTS

	PAGE
GENERAL STATEMENT	1
INTRODUCTION	1
General	1
Location and Access	1
EXHIBIT "A"	2
AFFIDAVIT	3
DIAMOND DRILL DATA	4
STATEMENT OF QUALIFICATIONS	5
ATTACHMENTS	
Location Map	
D.D. Logs	

COMINCO LTD.

EXPLORATION DIVISION

WESTERN DISTRICT

STEAMBOAT GROUP
Golden Mining Division

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GENERAL STATEMENT

This report describes the results and expenditures relating to diamond drilling on the Steamboat Group.

Diamond drilling was performed during July 1st to September 30th, 1976.

Total expenditures for this diamond drilling program amounted to \$41,630.

It is requested that \$41,100 be applied as follows:

Steamboat (6 units)	@ \$100.00	1 year	=	\$ 600	
Steamboat 1 (2 units)	@ \$100.00	2 years	=	\$ 400	
Steamboat 2 (2 units)	@ \$100.00	2 years	=	\$ 400	
Steamboat 3 (6 units)	@ \$100.00	2 years	=	\$ 1,200	
Steamboat 4 (15 units)	@ \$100.00	3 years	=	\$ 4,500	
Steamboat 5 (4 units)	@ \$100.00	3 years	=	<u>\$ 1,200</u>	
				\$ 8,300	\$ 8,300
Four years assessment credit at \$200 per unit to be applied to each of the 35 units at the Steamboat Group: 35 x 200 x 4 =					
				\$28,000	\$ 28,000
Twenty-four years assessment credits at \$200 per unit to 6 units of the Steamboat claim and 6 units of the Steamboat 3 claim.					
Two years each 12 x 200 x 2 =					
				\$ 4,800	<u>\$ 4,800</u>
					<u>\$ 41,100</u>

INTRODUCTION

General

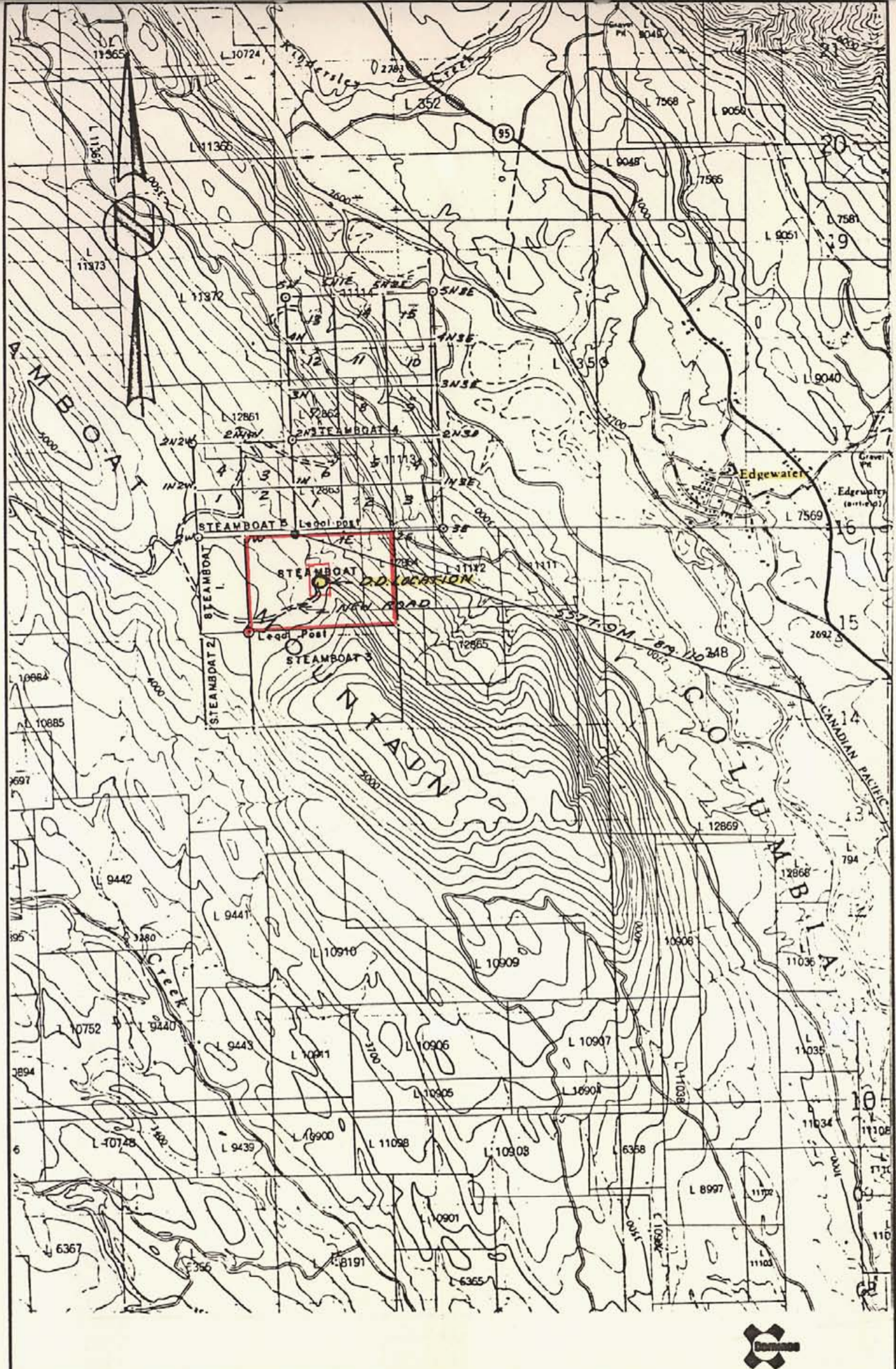
The diamond drilling program was carried out to establish some continuity in the mineralized showing, its relationship to the geological environment, and to establish tonnage and grade of mineralization.

Diamond drilling was performed by Wescore Drilling Ltd., Box 760, Invermere, B.C. The drill used was a Boyls 25A equipped to recover NQ core. The operators were L. Hemmelgarn, Ed Gordon, C.O'Hara, G. Poller and D. Roach.

The field program was under the direction of G.L. Webber and D.L. Pighin and supervised by D.W. Heddle, Assistant Manager, Western District, Cominco Ltd., Registered P. Eng.

Location and Access

The Steamboat Group of 6 claims consists of 35 units, that are located on Steamboat Mountain, 4.8 km west of Edgewater, B.C., Lat: 50°43'; Long: 116°11'. The claims are accessible by old second-grade logging roads from the east and west side of Steamboat Mountain.



Drawn by: S. W.		Traced by:	
Revised by	Date	Revised by	Date

CLAIM LOCATION MAP

82K/9

Scale: 1: 50,000 Date: DEC. 1st /76 Plate:

EXHIBIT "A"

Statement of Expenditures
 Steamboat Group of Claims
 Golden Mining Division

Diamond Drilling - Indirect

Salaries (field)

D.W. Heddle (Chief Geologist) 3 days @ \$200	\$ 600.00
G.L. Webber (Geologist) 7 days @ \$100	700.00
D.L. Pighin (Technician) 30 days @ \$81	2,430.00
P. Klewchuk (Geologist) 30 days @ \$103	3,090.00

Salaries (office)

G.L. Webber - report and map preparation 3 days @ \$100	300.00
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Analyses:

core sample assays - Ag. Pb. Zn. Cu determinations 455 @ \$6.00 each =	2,730.00
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Transportation:

Ford 4 x 4 1/2 ton @ 2 mos @ \$600 including gas	1,200.00
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TOTAL \$11,050.00

Diamond Drilling - Direct

Wescore Drilling Ltd.

D.D. Hole S76-1	61.87 m @ \$57.52/m.	\$ 3,559.00
-2	128.66 m @ \$52.73/m.	6,784.00
-3	145.70 m @ \$55.95	8,152.00
-4	30.50 m @ \$49.31	1,504.00
-5	24.40 m @ \$50.57	1,234.00
-6	207.57 m @ \$45.03	9,347.00

TOTAL 598.70 m @ Av. \$51.08 \$30,580.00

TOTAL EXPENDITURES

Diamond Drilling - Indirect	\$11,050.00
Direct	30,580.00
	<u>\$41,630.00</u>

G. L. Webber

This Exhibit "A" to the Statutory
 Declaration of G.L. Webber declared
 before me this 28 day of
February, 1977.

J. B. Bateliff
 A Commissioner for Taking Affidavits for
 the Province of British Columbia.

IN THE MATTER OF THE
B.C. MINERAL ACT
AND

IN THE MATTER OF A DIAMOND DRILL PROGRAMME
CARRIED OUT ON THE STEAMBOAT GROUP OF CLAIMS

Located on Steamboat Mountain,
three miles west of Edgewater, B.C.
in the Golden Mining Division of the
Province of British Columbia
More Particularly N.T.S. 82K/9

A F F I D A V I T

I, G.L. WEBBER, of the City of Kimberley, in the Province of
British Columbia, make Oath and say:

1. That I am employed as a geologist by Cominco Ltd. and,
as such, have a personal knowledge of the facts to
which I hereinafter depose:
2. That annexed hereto and marked as Exhibit "A" to this my
Affidavit is a true copy of expenditures incurred by
diamond drilling on the Steamboat Group.
3. That the said expenditures were incurred between the 1st
day of July, 1976 and the 30th day of September, 1976 for
the purpose of mineral exploration on the above noted claims.

Sworn Before Me at the Kimberley)
of _____ in the)
Province of British Columbia, this 28th)
day of February, 1976)

G.L. Webber
G.L. WEBBER

J. C. Ratcliffe
A Commissioner for taking Affidavits
in the Province of British Columbia.

DIAMOND DRILLING DATA FOR:
STEAMBOAT GROUP

DDHOLE	LOCATION	DIP	DEPTH	CORE SIZE	UNIT COST	TOTAL COST	ELEVATION
S76-1	Steamboat Mtn.	-90°	61.87 m	NQ	\$57.52/m	\$ 3,559	1,314
S76-2	"	-45°	128.66 m	NQ	\$52.73/m	\$ 6,784	1,314
S76-3	"	-90°	145.70 m	NQ	\$55.95/m	\$ 8,152	1,326
S76-4	"	-45°	30.50 m	NQ	\$49.31/m	\$ 1,504	1,351
S76-5	"	-70°	24.40 m	NQ	\$50.57/m	\$ 1,234	1,351
S76-6	"	-90°	207.57 m	NQ	\$45.03/m	\$ 9,347	1,374
TOTAL - 598.70 @ (Av.) \$51.08/m						\$30,580	

Total Expenditures

Diamond Drilling - Indirect	\$11,050
- Direct	30,580
	<u>\$41,630</u>

The core is stored in racks on the Sullivan Mine property.

SIGNED: G.L. Webber
G.L. WEBBER

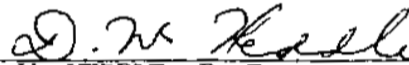
ENDORSED BY: D.W. Heddle
D.W. HEDDLE, P. Eng.

APPROVAL FOR
RELEASE BY: W.T. Irvine per D.W.H.
W.T. IRVINE, P. Eng.

STATEMENT OF QUALIFICATIONS

G.L. WEBBER has been involved in various types of mineral exploration work for Cominco Ltd. over the last twenty-five years.

I consider him well qualified to carry out the reporting of all phases of geological exploration work.



D.W. HEDDLE, P. Eng.
Assistant Manager, Exploration,
Western District

4. SCHEDULE OF RATES

Subject to all of the other provisions hereof, the COMPANY agrees to pay the CONTRACTOR for the work performed, services rendered and the materials equipment and supplies furnished by CONTRACTOR a sum as hereinafter prescribed.

(i) NQ Drilling or BQ Drilling

NQ from bedrock to 1000 feet -\$13.50 per foot.

BQ from bedrock to 1000 feet -\$12.50 per foot.

(ii) Overburden Drilling

0-100 feet at \$13.50 per foot.

For overburden greater than 150 feet in depth if costs are greater than \$13.50 per foot then the rate shall be at field cost.

(iii) Transportation and Moves

It is agreed that for the Steamboat program the moving of drill equipment supplies and personnel from the CONTRACTOR'S Warehouse to the drill sites and return from the final drill site to the CONTRACTOR'S Warehouse shall be at the CONTRACTOR'S Expense.

(iv) Field Cost

Field cost rates will be as follows:-

(a) Operating Field Costs

(Labour including supervision) \$7.00 per man hour.

Drill rental \$7.00 per drill hour.

Pumps for water and supply \$1.00 per operating hour.

Materials - 50 bags of drill mud will be provided by the contractor at no cost to the company, other additives, at cost.

(b) Delays

Delays occasioned by COMPANY representative or engineer will be for the COMPANY'S account at the rate of \$15.00 per hour.

(c) Core Boxes

Core boxes will be supplied by the COMPANY at the COMPANY'S expense.

(v) Additional Equipment

A tractor or other suitable moving equipment will be supplied by the CONTRACTOR for drill moving and shall be at the CONTRACTOR'S expense.

THIS AGREEMENT MADE this 14th day of July, 1976.

BETWEEN: COMINCO LTD.
200 Granville Square
Vancouver, B.C.
V6C 2R2

(hereinafter referred to as the "COMPANY")

AND: WESCORE DRILLING LTD.
Box 760
Invermere, B.C.
VOA 1K0

(hereinafter referred to as the "CONTRACTOR")

WHEREAS the COMPANY hereby requests that the CONTRACTOR carry out certain surface diamond drilling and other services, on the COMPANY'S property, in the Brisco area of B.C.

AND WHEREAS the CONTRACTOR hereby agrees to perform said diamond drilling and other services requested, under the terms and conditions hereinafter contained.

1. DESCRIPTION OF WORK

The work is to consist of a series of drill holes, drilled at locations specified by the COMPANY. A total minimum footage of 2,000 feet shall be drilled but, total footage may be extended by mutual consent. Holes shall be drilled with NQ equipment producing 1 7/8" diameter core, or BQ at the request of the COMPANY. Maximum depth of any hole shall not exceed 1000 feet. Measurements of all holes shall be taken from the top of the casing pipe. If holes at a greater depth than 1000 feet are desired, such drilling shall be performed only upon such conditions and at such rates as may be agreed upon before commencement of such drilling.

2. COMMENCEMENT AND EXECUTION OF WORK

Work shall be commenced: As near as possible to the limits specified by the COMPANY, i.e., on the 15th June, 1976, or as soon as possible thereafter. In all cases, work shall be carried out with one - ten hour shift per day, seven days a week, or as near that schedule as can be maintained.

3. LABOUR EQUIPMENT MATERIALS AND SUPPLIES AND SERVICES

All labour equipment material and supplies and services necessary to the normal operation or maintenance of the drilling equipment shall be furnished by the CONTRACTOR.

(vi) Room and Board

Room and board for CONTRACTOR'S personnel will be provided by the CONTRACTOR at no cost to the COMPANY.

5. ACCESS AND TIMBER RIGHTS

The COMPANY shall provide at no cost to the CONTRACTOR all rights of ingress and egress to all lands that may be required to enable the CONTRACTOR to carry out the specified work.

The CONTRACTOR shall be permitted to cut and fell any timber on the COMPANY'S property as may be required in the course of the work hereunder, and the COMPANY shall indemnify and save harmless the CONTRACTOR from any assessment for stumpage or other charges of every kind and nature whatsoever.

6. DRILLING

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 COMPANY representative relating to place and time of drilling.

The CONTRACTOR shall at all times enforce discipline and maintain good order among its employees and shall not retain on the job any person not skilled in the work assigned to him.

Any employees of the CONTRACTOR who are objectionable or unsatisfactory to the COMPANY shall be removed from the job and replaced by an employee satisfactory to the COMPANY.

The drilling shall be conducted so as to produce as high a percentage of core as the nature of the ground being drilled shall allow. All cores recovered shall be delivered to the COMPANY at the drill site, carefully marked.

7. CAVITIES

In the event that cavities or loose and caving materials or excessive water flows are encountered of a nature so 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 uncompleted holes at the rates herein specified for all footage completed. However, should the COMPANY request that further work be carried out in the hole beyond this point, then the CONTRACTOR shall continue work in the hole, but such continuing work shall be at Field Cost rates.

8. HOLE DIRECTION AND DEPTH

The CONTRACTOR does not guarantee the direction of the hole beyond the collar nor guarantee to drill any hole to any specified depth. The CONTRACTOR will however, expend every reasonable effort to complete all holes to the satisfaction of the COMPANY.

9. SECRECY

The CONTRACTOR will not give out any information regarding drill results or permit any access to drill core to any individual other than the COMPANY'S representative, except upon specific permission of responsible officials of the COMPANY.

10. LIENS

The CONTRACTOR shall be responsible for, and will pay promptly all costs and charges, incurred by itself for labour, machinery, tools, and supplies used in completing the work hereunder so that no lien or other such charge relative to the CONTRACTOR, may be registered against the COMPANY or the property. The CONTRACTOR shall be responsible for the payment of all assessments for Workmen's Compensation, Holiday Pay, Canada Pension, Unemployment Insurance, Sales Tax, or other such applicable charges relative to its own labour and supplies purchased.

11. ECOLOGY AND SANITATION

During the course of the work, the CONTRACTOR shall keep the site of any drilling and camp areas free from accumulation of waste materials, rubbish or garbage and upon completion of the work, shall remove all tools, scaffolding, surplus materials, rubbish and garbage and leave the working and camp site 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 and shall bear all costs arising from any violation thereof.

12. PAYMENTS

The COMPANY shall pay CONTRACTOR for the services and/or material and equipment furnished by the CONTRACTOR at the rate stipulated in this agreement, within 30 days of invoicing. Invoices shall be submitted twice monthly.

13. INSURANCE

The CONTRACTOR shall save the COMPANY harmless from all claims and demands arising directly or indirectly out of or in connection with the work whether such claims or demands are made by members of the public or persons employed or engaged on or in connection with the work; and the CONTRACTOR shall compensate the COMPANY for any damage done to its buildings, machinery, and equipment arising out of or in connection with the work.

The CONTRACTOR shall provide, maintain, and pay for Comprehensive General Liability Insurance protecting himself, his subcontractor, and the COMPANY against damage arising from personal injury (including death) and from claims for property damage which may arise out of his operations under this contract. Such insurance shall:

- (i) Have a limit of liability of not less than \$1,000,000 inclusive for any one occurrence or such greater amount as may at the discretion of the COMPANY, be required.
- (ii) Cover all liability arising out of products, either the CONTRACTOR'S or supplied by him, completed operations, contingent employer's liability and liability assumed by the CONTRACTOR under this contract.

Evidence of insurance, in such form as may be required shall be lodged with Insurance and Risk Manager, Cominco Ltd., Vancouver, B.C. before the work is commenced.

The CONTRACTOR shall also provide, maintain and pay for automobile insurance on his own vehicles and non-owned automobile insurance protecting himself and the COMPANY against damages arising from personal injury (including death) and from claims for property damage arising out of their use on his operations under this contract. Such insurance shall have a limit of liability of not less than \$1,000,000 inclusive for any one occurrence or such greater amount as may, at the discretion of the COMPANY, be required.

14. FORCE MAJEURE

Neither COMPANY nor CONTRACTOR shall be liable to the other for any delays or damages or any failure to act due, occasioned, or caused by reason of Provincial laws of the rules, regulations or orders of any public body or official purporting to exercise authority or control respecting the operations covered hereby, including the use of tools and equipment, or due, occasioned, or caused by strikes, action of the elements, or causes beyond the control of the elements, or causes beyond the control of the parties affected hereby, and delays due to the above causes, or any of them shall not be deemed to be a breach of or failure to perform under this Agreement.

15. NOT ASSIGNABLE

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

16. MAILING ADDRESSES

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

COMINCO LTD.
200 Granville Square
Vancouver, B.C.
V6C 2R2

or to the CONTRACTOR by registered letter addressed as follows:

WESCORE DRILLING LTD.
Box 760
Invermere, B.C.
VOA 1K0

17. TIME IS OF THE ESSENCE

Time is expressly declared to be the essence of this Contract. If either party hereto defaults in the performance of this Contract of work commenced under work orders as provided for herein, the other party has the option to terminate this Contract and the work order involved.

IN WITNESS WHEREOF THE COMPANY AND THE CONTRACTOR set their hands this 14TH day of July, 1976.

WITNESS:

David J. Piquin

COMINCO LTD.

G. H. Walker

WITNESS:

David J. Piquin

CONTRACTOR

Frank Ammelgarn

Scale

Colour Plot
& Dips

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN MINING DIST.	Hole No.	S76-1	ELEVATION	1314
Commenced	July 21, 1976	Location No.	1	Tests at	nil	Hor. Comp.	0
Completed	July 26, 1976	Core Size	NQ	Corr. Dip	-90°	Vert. Comp.	61.87 m
Co-ordinates		True Brg.		Logged by	DLP		
Objective		% Recov.	90.15%	Date	Aug. 1976		

Footage		Description	Sample No.	Length m	Analysis			Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
From 0	To 6.7m				Ag	Pb	Zn							
6.7m	7.62m	Dolomite, brecciated, and silicified minor patches barite clasts very small average 1 to 2mm; fine-grained galena and sphalerite disseminated and along wispy discon. fractures. Assay No. 1 6.2m to 7.62 m.	28651	6 ^{7.62} 7.62	.05	.3	.6							
7.62m	9.14m	Silicified brecciated dolomite, i.e. brecciated with fine-grained barite matrix; clasts are small, rotated and partly replaced by barite; fine-grained principally; galena and some sphalerite disseminations in barite, fair mineralization.												
9.14m	9.85m	Assay No. 2 7.62 m to 9.14 m. Dolomite - silicified brecciated with wispy lenses and stylolitic partings of black argillite; some galena - very minor sphalerite. core oxidized to this point.	28652	7 ^{9.62} 9.14	.11	.7	.7							
9.85m	11.27m	Sample assay No. 3 9.14 m to 9.85 m. Rebrecciated silicified dolomite breccia, barite matrix, core oxidized. Fair Pb very fine-grained sphalerite appears weathered.	28653	9 ^{9.14} 9.85	.07	.3	.7							
11.27m	11.78m	Assay No. 4 9.85 m to 11.27 m. Dolomite brecciated. With black argillite matrix. Dolomite clasts appear to float in argillite matrix, numerous smithsonite brown limonite-filled holes.	28654	9.85- 11.27	.07	.4	.6							
11.78m	17.37m	Assay No. 5 11.27 m to 11.78m. Dolomite, brecciated and silicified, light grey with brown limonite specks and patches throughout. One to 2 ft. sections and small patches and veins of fine-grained barite, Barite generally late and forms matrix of Rebrecciated silicified breccia, clasts of silicified breccia are generally rotated angular to subrounded and appear to float in barite matrix. Sulphides that are associated with barite veins and occur in the barite and along the contacts THE CORE IS STORED IN RACKS ON THE SULLIVAN MINE PROPERTY.	28655	11.27- 11.78	.07	.2	.2							

Drill Hole Record

Colour Plot
& Dips

Property STEAMBOAT

District G.M.D.

Hole No. S76-1

Commenced

Location

Tests at

Hor. Comp.

Completed

Core Size

Corr. Dip

Vert. Comp.

Co-ordinates

True Brg.

Logged by

Objective

% Recov.

Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage		Description	Sample No.	Length	Analysis										
From	To														
11.78m	17.37m	of barite veinlets and impregnate the adjacent silicified breccia in dendritic patterns. All sphalerite and galena, minor pyrite is very fine-grained; good to fair mineralization throughout.													
		At 45' limonite mud seam 38'8" to 39'6" barite breccia.													
		Good Zn, Pb, but very fine-grained sulphides.	28656	11.78-13.41	.07	.3	.8								
		Assay No. 6 - 38'8" to 44'0"; 11.78m - 13.41m	28657	13.41-14.63	.13	.9	1.5								
		Assay No. 7 13.41 m to 14.63 m	28658	14.63-15.85	.15	.5	1.6								
		Assay No. 8 14.63 m to 15.85 m	28659	15.85-17.37	.21	.9	1.8								
		Assay No. 9 15.85 m to 17.37 m													
17.37m	22.86m	38'8" to 57' core loss = 1 ft.													
		Dolomite silicified, brecciated, Rebrecciated and veined by barite much the same as Box 2.													
		But much less barite; mineralized well in patches with some areas not mineralized.													
		Fair Pb-Zn 17.37 m to 19.50 m; 19.50 m to 20.11 m. very poor mineralization.													
		20.11m to 23.16 m generally mineralized weakly throughout; but section highly oxidized and sheared.													
		18.90 m to 19.50 m. core high crushed and oxidized.													
		21.33 m to 21.79 m mylonized zone; slicken sides at 21.64 m. angle to core 45 ⁰ .													
		21.79 m to 22.55 m mylonization continues, this zone remains highly oxidized.													
		Assay No. 10; 17.37 to 18.90 m	28660	17.37-18.90	.08	.3	.8								
		Assay No. 11; 18.90m to 20.42 m	28661	18.90-20.42	.07	.3	.5								
		Assay No. 12; 20.42m to 21.94m	28662	20.42-21.94	.11	.2	.5								
		Assay No. 13; 21.94m to 22.86 m	28663	21.94-22.86	.06	.4	.5								

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage		Description	Sample No.	Length	Analysis					
From	To				Ag	Pb	Zn			
		Net core loss from 57.0 ft. to 75 ft. = 2 ft.								
22.86m	28.95m	Dolomite, brecciated and silicified; light grey micritic; clasts are oxidized to reddish brown; brown dolomite clasts also fractured and silicified by small sinuous veins. 23.62 m to 24.38 m fine-grained barite vein or pod; contain large and small generally angular clasts of silicified breccia; small clasts occur mainly along barite contacts; barite contains good Pb and some light brown sphalerite.								
		23.62 m to 24.38m good Pb/Zn mineralization.								
		24.38 to 28.95 m contains little or no barite but silicified breccia contains good Pb and Tetrahedrite in patches but generally sulphides dispersed, weakly throughout, breccia & along sinuous fractures; Zn, carbonate and limonite throughout. Tiny subhedral pyrite throughout; less than .5% est.								
		@ 90' slicken sided shear parallel to core.								
		28.95 m slicken sided shear 45° to core.								
		27.12 m slicken sided shear 25° to core.								
		Assay No. 14: 22.85 m to 24.38 m	28664	22.85-24.38	.13	.8	.7			
		Assay No. 15: 24.38 m to 26.21 m	28665	26.21	.06	.2	.5			
		Assay No. 16: 26.21 m to 27.43 m	28666	27.43	.07	.3	.5			
		Assay No. 17: 27.43 m to 28.95 m	28667	28.95	.09	.2	.5			
		Net core loss - nil								

Scale

Colour Plot
& Dips

Drill Hole Record



PAGE 4

Property	STEAMBOAT	District	GMD	Hole No.	S76-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage		Description	Sample No.	Length	Analysis					
From	To									
28.95m	34.44m	Dolomite, brecciated, silicified, light grey, with silica filled sinuous fractures, micritic texture, oxidation produces light brown patches throughout. No barite observed. Weakly mineralized by widely dispersed tiny anhedral specks of chalcopyrite, tetrahedrite, pyrite and rare galena. Pyrolusite dendrites along fractures. The above disseminated mineralization occurs at random throughout core and does not appear to be related to any particular structure. @ 30.78 m narrow shear 45° to core. @ 34.44 m shear 90° to core. @ 37.70 m shear 30° to core.								
		Assay No. 14: Be sure to assay for Cu and Ag.	28668	28.95 31.7	.05	.3	.5			
		Assay No. 15: Net core loss=2ft.	28669	34.44	.05	.2	.5			
34.44m	36.88m	Dolomite. Brecciated, silicified, light grey, with white, light grey silicified fractures, micritic texture, reddish brown oxidation patches throughout. Mineralization widely spaced fine blebs and specks of tetrahedrite, rare chalcopyrite, rare galena and sphalerite, and pyrite at 117 strong shear; crushed zone 6" thick.								
36.88m	40.84m	Dolomite. Brecciated, silicified, same as above. However, mineralized fair to good in patches. The dominant sulphide is sphalerite, but galena occurs as well. Tetrahedrite, chalcopyrite occur as rare specks and blebs, pyrite also as rare specks and blebs; generally anhedral grains. Note: oxidization still strong in some sections, many smithsonitic limonite lined vugs occur. NOTE: This mineralization is occurring in the siliceous breccia without the usual associated barite. The mineralization occurs generally along numerous very irregular small discontinuous fractures gen. with galena and principally sphalerite occurring in centre of fractures surrounded micro-xtln silica								

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage From To	Description	Sample No.	Length m	Analysis					
				Ag	Pb	Zn			
6.88m-40.84m	Assay No. 16 = 34.44m to 36.88m	28670	36.88	.08	.2	.5			
	Assay No. 17 = 36.88m to 38.10 m.	28671	38.10	.06	.1	1.2			
	Assay No. 18 = 38.10m to 39.62m Fair sphalerite section 31'	28672	39.62	.06	.2	1.6			
	Assay No. 19 = 39.62m to 40.84 m.	28673	40.84	.05	.3	1.4			
	Net core loss 1 ft.								
40.84m-42.06m	Dolomite, brecciated silicified micritic, light grey with brown limonite patch; Silica-filled veinlets and blebs are white to very light grey (microxtln, quartz). Mineralization - pyrite occasional bleb to fine anhedral dustings; rare blebs and specks of chalcopryrite, occasional small specks sphalerite and rare 1/4 inch patches of sphalerite generally in radiating dendritic structures.								
42.06m-43.28m	Dolomite, brecciated and silicified, finely brecciated, clasts very angular with rare rounded clasts. This section is strongly silicified. At 43.28 m contact with McKay Fm. appears to be erosional (unconformable). No fault contact indicated in core. Mineralization, from 42.06 m to unconformity (McKay) very well mineralized, light yellow to reddish brown generally very fine sphalerite is dominant, but galena (rare tetrehedrite and chalcopryrite, weak pyrite also occurs throughout.								
43.28m-46.34	Argillite black graphitic and pyritic, with clasts and thin bouninage interbeds of finely xtln. grey dolomite; clasts and interbeds are veined and patched by coarsely xtln. white dolospar. Graphitic-lined stylolites are usually associated with dolospar. The argillite adjacent to the unconformity shows faint slump brecciation. Mineralization - rare galena and sphalerite occur in dolospar patches and veins as well as in limestone clasts but do not continue								

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-1	Claim		T Brg.		Collar Dip		Elev.		Length		Hole No.		Sheet	
Commenced		Location		Tests at		Hor. Comp.													
Completed		Core Size		Corr. Dip		Vert. Comp.													
Co-ordinates				True Brg.		Logged by													
Objective				% Recov.		Date													
Footage	Description	Sample No.	Length	Analysis															
From	To																		
to 46.34m	much more than 4 ft. below the unconformity. Pyrite is abundant throughout and occurs in the black argillite and limestone as large boitryoidal masses 1/2 inch+ to fine anhedral dustings.																		
	@ 45.72 m 2 in. black mud guage.		40.84																
	Assay No. 20 = 40.84 m to 42.06 m.	28674	42.06	.05	.2	1.2													
	Assay No. 21 = 42.06m to 43.28 m.	28675	43.28	.06	.5	1.6													
	Assay No. 22 = 43.28 m to 45.11m	28676	45.11	.05	.2	1.7													
	Core loss 2 ft.																		
46.34m-47.55m	Argillite, black, graphitic in part, generally slump brecciated. Clasts are dominently argillite, very similar to matrix; occasional clasts of finely xthn grey dolomite. Patches and tiny irregular veinlets of White dolospar occur throughout this section. Pyrite as colloidal patches up to 1/4 in. and as fine dustings (diss.) occur in clasts, dolospar and matrix est. .5% pyrite in this section.																		
47.55m-50.29m	Argillite, grey, slump brecciated in section, otherwise primary structures completely lacking (mudstone). Dolospar, white to light grey, occurs in irregular veinlets and patches. Pyrite very rare in this section.																		
	@ 46.32 m 49° to core shearing 2" guage.																		
	@ 48.15m broken shear ground attitude?																		
	@ 48.77m shear tight, parallel to core, and continues to 165'.																		
	Net core loss 7 ft.																		

Drill Hole Record



Property STEAMBOAT **District** GOLDEN MINING DISTRICT **Hole No.** S76-2 **ELEVATION** 1314
Commenced July 27, 1976 **Location** No. 2 **Tests at** nil **Hor. Comp.** 90.96m
Completed Aug. 6, 1976 **Core Size** NQ **Corr. Dip** -45° **Vert. Comp.** 90.96m
Co-ordinates **True Brg.** 045° **Logged by** DLPighin
Objective **% Recov.** **Date** August 1976

Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No.
 Sheet

Footage From To	Description	Sample No.	Length	Analysis					
0m 3.05m	Casing								
3.05m 9.14m	Dolomite, brecciated silicified; irregular pods, patches and small veinlets of finely xthn white barite. Dolomite light grey with brown limonite patches and limonite along hairline fractures, and in breccia matrix. Mineralized throughout section, dominant sulphide is galena very fine grained. Sphalerite very fine grained, light brown generally disseminated in breccia matrix. Blebs and specks of anhedral pyrite occur throughout less than .5%. 15cm of good Pb/Zn @ 3.05 m; 30cm of good Pb/Zn @ 5.64 m; 45 cm. good Pb/Zn @ 4.09m. 300m good Pb/Zn @ 8.22 m. @ 7.31 m fracture 45° to core; @ 5.79 m fracture 40° to core. @ 6.09 m. fracture 60° to core; @ 6.40 m shear zone at 30° to core; 1/4 inch shear zone. @ 8.53 m. fracture 55° to core.								
	Assay No. 1. 3.05 m to 5.48 m	28601	3.05 5.48	.08	.3	.6			
	Assay No. 2. 5.48 m to 6.40 m generally good mineralization	28602	6.40	.09	.8	.4			
	Assay No. 3. 6.40 m to 7.62 m.	28603	7.62	.06	.3	.3			
	Assay No. 4. 7.62m to 9.14m	28604	9.14	.08	.3	.8			
	Net core loss - nil.								
THE CORE IS STORED IN RACKS ON COMINCO'S SULLIVAN MINE PROPERTY									

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-2
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage		Description	Sample No.	Length m	Analysis					
From	To				Ag	Pb	Zn			
9.14m	12.80	Dolomite, light grey, micritic, generally finely brecciated and silicified. Occasional patches and small veins of fine grained barite; occasional remnant patches of dark grey, white mottled dolomite; no xtlm size change in white dolomite mottles.								
12.80m	14.3m	Dolomite, micritic, dark grey, white mottling, contains small zones of brecciation, in brecciated areas dolomite becomes light grey, maybe due to silification. Section generally mineralized Pb/Zn but in general the dark grey mottled dolomite is poorly mineralized.								
14.3m	14.9m	Dolomite light grey, micritic silicified but not brecciated and not mineralized. Mineralization galena and sphalerite occasionally thin 1/4 in. stylolitic pyrite veins, good to fair mineralization from 30 ft. to 42 ft.								
		@ 9.75m fracture 51° to core; @ 12.19m fracture 35° to core; @ 12.80 fracture 30° to core.								
		@ 42' fracture 10° to core.		2.14						
		Assay No. 5: 9.14 to 10.6m	28605	10.6	.08	.3	.2			
		Assay No. 6: 10.6 to 12.19m	28606	12.19	.08	.6	.8			
		Assay No. 7: 12.19 to 13.7 m	28607	13.7	1.2	.6	.2			
		Assay No. 8: 13.7 to 14.9 m.	28608	14.9	.08	.2	.1			
		Net core loss 1 ft.								

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-2
Commenced	Location		Tests at		Hor. Comp.
Completed	Core Size		Corr. Dip		Vert. Comp.
Co-ordinates			True Brg.		Logged by
Objective			% Recov.		Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length m	Analysis			
				Ag.	Pb	Zn	
14.9m15.5	Dolomite, finely xtn. dark grey, white mottling, poorly brecciated, partly silicified brown limonite patches some of which are smithsonitic. Mineralization Pb/Zn nil. rare isolated tiny specks of pyrite.						
15.5m18.6m	Dolomite light grey, finely xtn., fractured silicification fills fracture and partly replaces dolomite usually starting around edges of dolomite rhombs. Mineralization limonite, weakly smithsonitic in small fractures and stylolitic veins. Very rare Pb/Zn in this section.						
18.6m19.5m	Dolomite grey, generally micritic, fine brecciated, numerous brown limonitic patches appear, after dolomite rhombs. Mineralization dominantly galena, some sphalerite, and pyrite. Galena very fine grained deposited in numerous hair-line bifurcated fractures as are pyrite and sphalerite. Most of these galena bearing fractures appear to be later than silicified brecciation. 17.1 m fracture 63° to core; @ 17.7m fractures 65° to core; @17.9 m fracture 45° to core.						
	Assay No. 9: 14.9m to 16.5m	28609	14.9 16.5	.18	.2	.2	
	Assay No. 10: 16.5m to 17.4m	28610	17.4	.07	.2	.2	
	Assay No. 11: 17.4m to 18.6 m.	28611	18.6	.10	.2	1.4	
	Assay No. 12: 18.6m to 19.5m Fair Pb.	28612	19.5	.09	.5	.7	
	Net core loss 5 ft.						

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-2
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No. Sheet

Footage From To	Description	Sample No.	Length m	Analysis		
				Ag	Pb	Zn
24.7m-28.0m	Dolomite, dark grey to medium grey, finely xthn. all generally tightly fractured; some mottling generally due to silicification, limonite occurs in tight fractures and in amorphous patches. Occasionally barite veins and patches generally small. One ft. of very good galena 25.6, over all this section might make 3.5 combined; sphalerite is rare but may be masked by oxidization. Very minor pyrite occurs along stylolitic partings and as tiny blebs. The good galena occurs in brecciated, silicified, grey dolomite and is adjacent to barite veins and generally in the tight fractures throughout section.					
28.0m-29.3m	Dolomite, light grey, micritic, brecciated and silicified, Limonite along fractures and as small patches and specks, rare small patches of barite. Galena and rare sphalerite occur along tight very irregular fractures within and adjacent to breccia zones. Est. grade 3.5% combined. Fractures to core 80% very dominant in this section. Fracture to core 70°					
	Assay No. 18: 24.7m to 26.2m	28618	24.7-26.2	.3	7.9	.8
	Assay No. 19: 26.2 to 27.7m	28619	27.7	.14	.3	1.1
	Assay No. 20: 27.7m to 29.3m	28620	29.3	.09	.3	.6
	Net core loss 10'					

Drill Hole Record



PAGE 0
 Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No.
 Sheet

Property STEAMBOAT District GMD Hole No. S76-2
 Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Footage		Description	Sample No.	Length m	Analysis						
From	To				Ag.	Pb/	Zn				
29.3m	31.7m	Dolomite, light grey, micritic, brecciated crackle and silicified, no barite in this section; some sections highly oxidized, contact at 31.7m with black graphitic argillite. Contains 1" massive pyrite with later thin veinlets of galena cutting the massive pyrite. This section to black argillite contact is mineralized in similar manner as previously described est. 3.5% combined Pb/Zn/Cu/Ag.									
31.7m	34.7	Argillite, black, graphitic and pyritiferous. Contains clasts of white sparry dolomite and grey finely xtl. dolomite and some cases clasts of finely xtl. massive pyrite, clasts are rotated and appear to float in matrix. In general this section appears to be slump structured (penecontemporaneously). No lead/zinc observed in this section. NOTE this section looks like McKay Fmn. adjacent to the unconformity in DD Hole S76-1. However, here it most represents some erosional irregularity relative to the unconformity as the hole has re-entered silicified brecciated Jubilee.									
34.7m	35.1m	Dolomite, micritic light grey brecciated and silicified, contact with black argillite again is undulating and irregular and appears erosional. Fair Pb mineralization for one ft. from contact.									
		Assay No. 21: 29.3m to 30.5 m	28621	29.3 30.5	.04	.3	.9				
		Assay No. 22: 30.5 to 32.0	28622	32.0	.08	.5	.9				
		assay No. 23: 32.0 to 34.7m	28623	34.7	.06	.3	1.3				
		Assay No. 24: 34.7 to									
		Net core loss 1ft.									

Drill Hole Record



Property STEAMBOAT District GMD Hole No. S76-2
 Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No. Sheet

Footage From To	Description	Sample No.	Length m	Analysis					
				Ag	Pb	Zn			
35.1m 39.6m	Dolomite micritic to fine xtlm light grey to mottled medium grey; all generally fractured and silicified, brecciated in part, one ft. barite contains carbonate clasts 39.3 to 39.6. Very sparse mineralization 35.1 to 36.9, fair to good Pb/Zn from 36.9 to 40.2 est. Better zones of mineralization; highly oxidized; strongly crush zone tectonically brecciated from 37.2 to 38.1 and from 39.0 to 39.3.								
	Assay No. 24: 34.7m to 36.9m	28624	34.7-36.9	.04	.3	1.0			
	Assay No. 25: 36.9 to 39.6	28625	39.6	.13	1.1	2.3			
	Net core loss 3 ft.								
39.6m 43.9m	Dolomite, fine xtlm to micritic in silicified areas, light grey to medium grey mottled in part, fractured by hairline cracks, which generally contain sulphides or are silicified. Barite breccia form 39.6 to 39.8m. Remainder of section no barite. One ft. of fair mineralization 40.8, Fair Pb/Zn at 43.3m. Pb/Zn occurs generally throughout this in hairline irregular factors est. 3.00% combined.								
43.9m 45.1m	Dolomite, finely xtlm. dark grey medium grey, partly silicified in patches; minor hairline fracturing. Fracture @ 60° to core 41.1m dominate set in box. Fracture @ 32° to core 40.8. Fracture 22° to core 43.6m.								
	Assay No. 26: 39.6 to 41.1m	28626	39.6-41.1	.15	.4	1.7			
	Assay No. 27: 41.1 to 42.1m	28627	42.1	.08	.6	.5			

Drill Hole Record



Property STEAMBOAT District GOLDEN MD. Hole No. S76-2

Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage		Description	Sample No.	Length	Analysis						
From	To				Ag	Pb	Zn				
		Assay No. 28; 42.1m to 43.6m	28628		.07	.4	.8				
		Assay No. 29; 43.6m to 45.1m			.06	.3	.9				
45.1m	49.4m	Dolomite, micritic to finely xtl in patches; light grey to grey; light grey micritic; generally strongly silicified. Narrow zone 6 to 12 in. clastic breccia; clasts sand to pebble size with silicified crackle breccia throughout section.									
		Mineralization; generally occurs throughout this section to varying degrees of abundance.									
		Galena and sphalerite, and associated very fine pyrite generally occur in association with the micro xtl quartz that fills the hairline irregular fractures of the crackle breccia,									
		Good mineralization from 46.3 to 47.2m 3.5+% combined; 156.0 to 160.0 good mineralization.									
		Remainder box less than 3.5% combined Pb/Zn/Cu/Ag. Assay No. 30: 45.1m to 46.0m	28630		.05	.3	.8				
		Assay No. 31: 46.0m to 47.5m	28631		.11	5.2	.3				
		Assay No. 32: 47.5m to 48.5m	28632		.08	.2	1.8				
		Assay No. 33: 48.5m to 49.4m	28633		.06	.2	1.4				
		Net core loss 4 ft.									

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN M.D.	Hole No.	S76-2
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length m	Analysis					
				Ag	Pb	Zn			
49.4m 51.8m	Dolomite. Micritic to finely xtn; grey to mottled grey in part. Well to poorly silicified, well to poorly crackled brecciated.								
51.8m 52.1m	Dolomite. Grey brecciated. Overlain by brownish white dololomite.								
52.1m 52.4m	Dolomite, generally white with some interstitial grey, eratically xtn. medium to coarse-grained.								
52.4m 53.0m	Dolomite, light grey to brownish grey, micritic crackled brecciated and silicified.								
53.0m 53.6m	Dolomite, white to brownish white, coarsely xtn.								
53.6m 54.9m	Dolorudite, arenaceous, grey with siliceous mottling, crackle brecciated, generally finely xtn. Box generally mineralized throughout. Good Pb/Zn 47.7m to 50.6 Est. 3.5%t Good Pb/Zn 52.4 to 53.0m Est. 3.5% t Remainder of box less than 3.5%.								
	Assay No. 34: 49.4m to 50.6m	28634		.05	.2	2.4			
	Assay No. 35: 50.6m to 52.1m	28635		.05	.3	.5			
	Assay No. 36: 52.1m to 53.3m	28636		.07	.5	.8			
	Assay No. 37: 53.3m to 54.9m	28637		.06	.2	.7			
	Core loss 2 ft.								

Drill Hole Record



Property STEAMBOAT District GOLDEN MD. Hole No. S76-2
 Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No.
 Sheet

Footage From To	Description	Sample No.	Length m	Analysis					
				Ag.	Pb.	Zn.			
54.86m 59.74m	Dolomite; grey with white mottling, finely xtl; to micritic in silicified areas; section generally all crackled brecciated to various degrees. e.g. the more intense the brecciation, the more intense is the silicification from 57.30 to 58.82m. No barite observed. Mineralization deposition as previously described, oxidization of sulphides to some degree is evident.								
	58.21m to 58.82 est. 6% combined. 55.47m to 58.82m, 3.5% combined Pb.Zn.Cu.Ag.								
	Remainder of box less than 3.5%								
	Assay No. 38: 54.86m to 55.47m	28638		.07	.3	.7			
	Assay No. 39: 55.47m to 57.60m	28639		.08	.4	1.1			
	Assay No. 40: 57.60 to 58.82m best grade in box	28640		.22	2.4	2.9			
	Assay No. 41: 58.82 to 59.74m	28641		.06	.2	1.2			
	Net core loss 4 ft.								
59.74m 64.92m	Dolomite, grey to dark grey with white siliceous mottling, finely xtl to micritic in the strongly silicified areas. Both crackle and solution breccia occur throughout section. Sand to pebble sized clasts to adjacent grey dolomite from 61.56 to 62.17 contain good Zn mineralization. No barite in section. Abundent oxidization, numerous smithsonitic lined vugs, good Zn mineralization 61.56 to 62.17 m, +5.0% 60.04 to 64.31 m est. 3.5% combined.								

Drill Hole Record



our Plot
Dips

Property	STEAMBOAT	District	GMD	Hole No.	S76-2
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Footage From To	Description	Sample No.	Length m	Analysis			Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
				Ag.	Pb.	Zn.							
	Assay No. 42: 59.74 to 61.26m	28642	61.26	.11	.7	1.9							
	Assay No. 43: 61.26 to 62.79	28643	62.79	.18	.5	5.4							
	Assay No. 44: 62.79 to 64.92m	28644	64.92	.08	.2	.9							
	Net core loss: 3 ft.												
64.92m65.83m	Dolomite, grey to dark white, white mottling, some of which is white dolomite and silicified dolomite. This section is poorly crackle brecciated. No barite.												
65.83m68.58m	Dolomite; light grey, micritic, well silicified well crackle brecciated; minor barite in patches (small).												
68.58m69.79m	Dolomite grey to dark grey, finely xtn. Siliceous mottling. Short section 6" of good crackle breccia, but generally poorly brecciated.												
	Mineralization - deposition of as described, spotty oxidization of sulphides throughout Box.												
	Fair mineralization from 216-225.0 est. 3.5% combined Pb/Zn/Cu/Ag. Remainder box, less than 3.5%.												
	Assay No. 45: 64.92m to 65.83m	28645	65.83	.09	.5	1.3							
	Assay No. 46: 65.83m to 68.75m	28646	68.75	.09	.6	1.1							
	Assay No. 47: 68.75 to 69.80m	28647	69.8	.07	.5	1.2							

Drill Hole Record



Property STEAMBOAT District GOLDEN M.D. Hole No. S76-2

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length m	Analysis					
				Ag.	Pb.	Zn.			
69.80m 74.67m	Dolomite; grey to dark grey, fine xtn; generally white dolomite mottling; generally poorly crackle brecciated, at 70.71m; 4 in. of silicified solution breccia at 74.67m; silicified solution breccia both solution and crackled breccias contain fair to good sphalerite mineralization. Eratic small 1/4 in. veinlets, patches and mottlings occur throughout this section. No barite observed. Mineralization deposition as described. Four inches good Pb/Zn at 70-71m in silicified clastic breccia and 1 ft. of good, mainly sphalerite in silicified clastic breccia @ 73.76m. Fair Pb/Zn 69.80 to 70.71, est. 3.5%? 73.45 to 73.76 est. 3.5% Pb/Zn,Cu/Ag. combined.								
	Assay No. 48: 69.80 to 70.71	38658		.07	.2	1.9			
	Assay No. 49: 70.71 to 73.45m	28649		.07	.2	.4			
	Assay No. 50: 73.45m to 74.06 Good Zn.	28650		.08	.2	2.1			
	Assay No. 51: 74.06m to 74.67m	29472		.05	.2	.4			
	Net core loss 4 ft.								
74.67m 76.20m	Dolomitic; grey to dark grey, finely xtn. silica and dolospar mottling crackle brecciated well to poor, in general very poorly silicified, even where well brecciated, very minor barite as small discontinuous veinlets and patches.								
76.20m 79.55m	Dolomite generally light grey, some remnant dark grey patches, micritic and well brecciated (crackle) and silicified, 76.20 to 76.81m, breccia, coarsely xtn. Barite matrix angular rotated clasts some 2"+ in size; weak hematization 255-261 broken zone 78.33 to 79.55m.								



Scale

Colour Plot
& Dip

Drill Hole Record

Property	STEAMBOAT	District	GOLDEN	Hole No.	S76-2	Claim		T Brg.		Collar Dip		Elev.		Length		Hole No.		Sheet	
Commenced		Location		Tests at		Hor. Comp.													
Completed		Core Size		Corr. Dip		Vert. Comp.													
Co-ordinates		True Brg.		Logged by															
Objective		% Recov.		Date															
Footage	Description	Sample No.	Length	Analysis															
From	To		m	Ag	Pb	Zn													
76.20m	79.55m																		
	Mineralization fair 75.89 to 77.42 m Est. 3.5% plus, remainder of box mineralized but less than 3.5% combined Pb/Zn/Cu/Ag.																		
	Note: 75.89 to 76.50 Galena and sphalerite occur in crackle breccia but are not usually associated with silicification or barite.																		
	Assay No. 52: 74.67 to 75.89m	29473	74.67-75.89	.05	.2	.8													
	Assay No. 53: 75.89 to 77.72 Best grade in box	29474	77.72	.17	.2	2.6													
	Assay No. 54: 77.72 to 79.55	29475	79.55	.07	.2	1.0													
	Net core loss 4 ft.																		
79.55m	84.45																		
	Dolomite. Light grey, micritic. Contains both solution breccia and crackle breccia, for most part core is badly sheared and crushed throughout. Barite stringers and patches occur from 270 to 275. Mineralization deposition of similar as described, oxidization of sulphides well developed throughout.																		
	81.40 to 83.84m fair to good Pb/Zn. Est. 3.5% combined.																		
	Remainder of box less than 3.5% combined.																		
	Assay No. 55: 79.55 to 81.40m	29476		.08	.06	.34													
	Assay No. 56: 81.40 to 83.84m. Best grade in box	29477		.01	.23	.71													
	Assay No. 57: 83.84 to 84.45	29478		.06	.09	.14													
	Net core loss 4 ft. (1.22m)																		

Scale

Colour Plot
& Dips

Drill Hole Record



R45 -

Property	STEAMBOAT	District	GOLDEN	Hole No.	S76-2	Claim		T Brg.		Collar Dip		Elev.		Length		Hole No.		Sheet	
Commenced		Location		Tests at		Hor. Comp.													
Completed		Core Size		Corr. Dip		Vert. Comp.													
Co-ordinates				True Brg.		Logged by													
Objective				% Recov.		Date													
Footage	Description	Sample No.	Length	Analysis															
From	To			Ag	Pb	Zn													
84.45m	86.59																		
	Dolomite; light grey generally finely xtn. to micritic in silicified areas. Generally crackle brecciated; Section reddened by hematization introduced along hairline fractures. Occasional patches of barite. May be upper Jubilee.																		
86.59m	89.63																		
	Dolomite; light grey mainly micritic, to finely xtn. but finely xtn texture may be due to small euhedral quartz crystals which may be related to the silicification processes, this section is poorly crackle breccia																		
	Mineralization fair Pb/Zn from 85.67 to 86.28. Est.																		
	Remainder of box less than 3.5% combined.																		
	Assay NO. 58: 84.45 to 85.67m	29479		.14	.08	.18													
	Assay No. 59: 85.67 to 86.59m best grade in box	29480		.14	.41	.27													
	Assay No. 60: 86.59 to 88.11	29481	.10	.06	.14														
	Assay No. 61: 88.11 to 89.63m	29482	.12	.21	.11														
	Net core loss																		
89.63m	91.46																		
	Dolomite, finely xtn. to micritic, poor to no brecciation; partly silicified at 89.94m; shear at 50° to core																		
91.46m	95.12																		
	Dolomite; grey finely exthn; poorly brecciated, rare silicification; some small veinlets and patches of barite; strongly reddened by hematization at intervals generally introduced along hairline fractures.																		
	Mineralization deposition same as described, some sulphides completely oxidized;																		
	89.94 to 92.68 Fair Pb/Zn Est. 3.5%																		
	Remainder of box less than 3.5%,																		



Scale

Drill Hole Record

Colour Plot
& Dips

Property	STEAMBOAT	District	GOLDEN	Hole No.	S76-2	Claim	T Brg.	Collar Dip	Elev.	Length	Sheet
Commenced	Location		Tests at		Hor. Comp.						
Completed	Core Size		Corr. Dip		Vert. Comp.						
Co-ordinates		True Brg.		Logged by							
Objective		% Recov.		Date							
Footage From To	Description	Sample No.	Length	Analysis							
				Ag.	Pb.	Zn.					
91.46m	95.12m	Assay No. 62: 89.63 to 91.16m		29483	.12	.63	.26				
		Assay No. 63: 91.16m to 92.68m		29484	.12	.34	.42				
		Assay No. 64: 92.68 to 93.29m		29485	.08	.03	.10				
		Assay No. 65: 93.29 to 95.12m	.10	29486	.04	.06					
		Net core loss 2 ft.									
95.12m	96.80	Dolomite; light grey, crystalline, quite fine-grained. Brecciated with light reddish hematization along most thin fractures. No barite, quartz observed. Galena occurs locally along fractures, fine-med-grained; core here is strongly shattered, most fragments more than 5 cm in length.									
		Assay No. 66: 95.12 to 96.8m		29487	.10	.13	.09				
96.80m	100.0	Dolomite; light grey, finely crystalline, brecciated, but weakly. Minor silicified crackle breccia. Occasional white, crystalline barite veins. Minor galena is present, particularly near beginning of interval. Minor copper carbonate associated with barite. Core is badly broken throughout.									
		Assay No. 67: 96.80m to 100.0		29488	.10	.11	.26				
		Core loss 95.12m to 100.0 : 0.91m.									
100.0m	101.52m	Dolomite; finely crystalline to micritic, light grey, brecciated. Reddish hematization is common along branching hairline fractures. Orange coloured limonite occurs along fractures and in matrix of breccia. Small shears at 40° and 60° to c.a. are common.									
		101.22 to 101.52 is strongly fractured. No barite observed; minor silicification is present. Only very minor sulphide mineralization is present; fine-grained galena occurs associated with the more strongly sheared zones.									
		Assay No. 68: 100.0 to 101.52m		29489	.08	.08	.12				

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN	Hole No.	S76-2
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis					
101.52m-111.43m	Dolomite, light grey, finely crystalline to micritic; weakly brecciated throughout, but only locally with silica-filled fractures. Occasional irregular pods of barite. Fractures commonly contain orange-brown limonite and, more rarely, pink hematite. Hematization is most prominent near 109.76m.								
	Near 107.32 a few irregular pods filled with quartz and sparry white dolomite; these could be vug fillings. Similar mottling is present at 109.91.								
	Sulphide mineralization, both galena and sphalerite, occurs throughout this zone of dolomite; although it is relatively minor. Sulphides are concentrated along or near fractures and appear most abundant where the pods of barite are.								
	103.35: Fracture at 65° sulphides.								
	103.81: Barite vein 5mm wide at 45°								
	105.18: Small shear zone ~1cm wide 70°								
	106.40: Barite vein 5-20mm wide 40° to 60°.								
	108.84: Fracture with barite vein 30°.								
	110.06: 1 cm wide shear zone 55°.								
	110.27 5-6 mm wide barite vein ~20°								
	Assay No. 69: 101.52m to 104.27m	29490		.08	.07	.13			
	Assay No. 70: 104.27 to 106.71	29491		.08	.05	.14			
	Assay No. 71: 106.71 to 109.24m	29492		.10	.07	.33			
	Assay No. 72: 109.24 to 111.43m	29493		.08	.12	.15			

Box 20 100.00 to 105.49: 30-61 cm. core loss

Box 21 105.49 to 110.67 No core loss

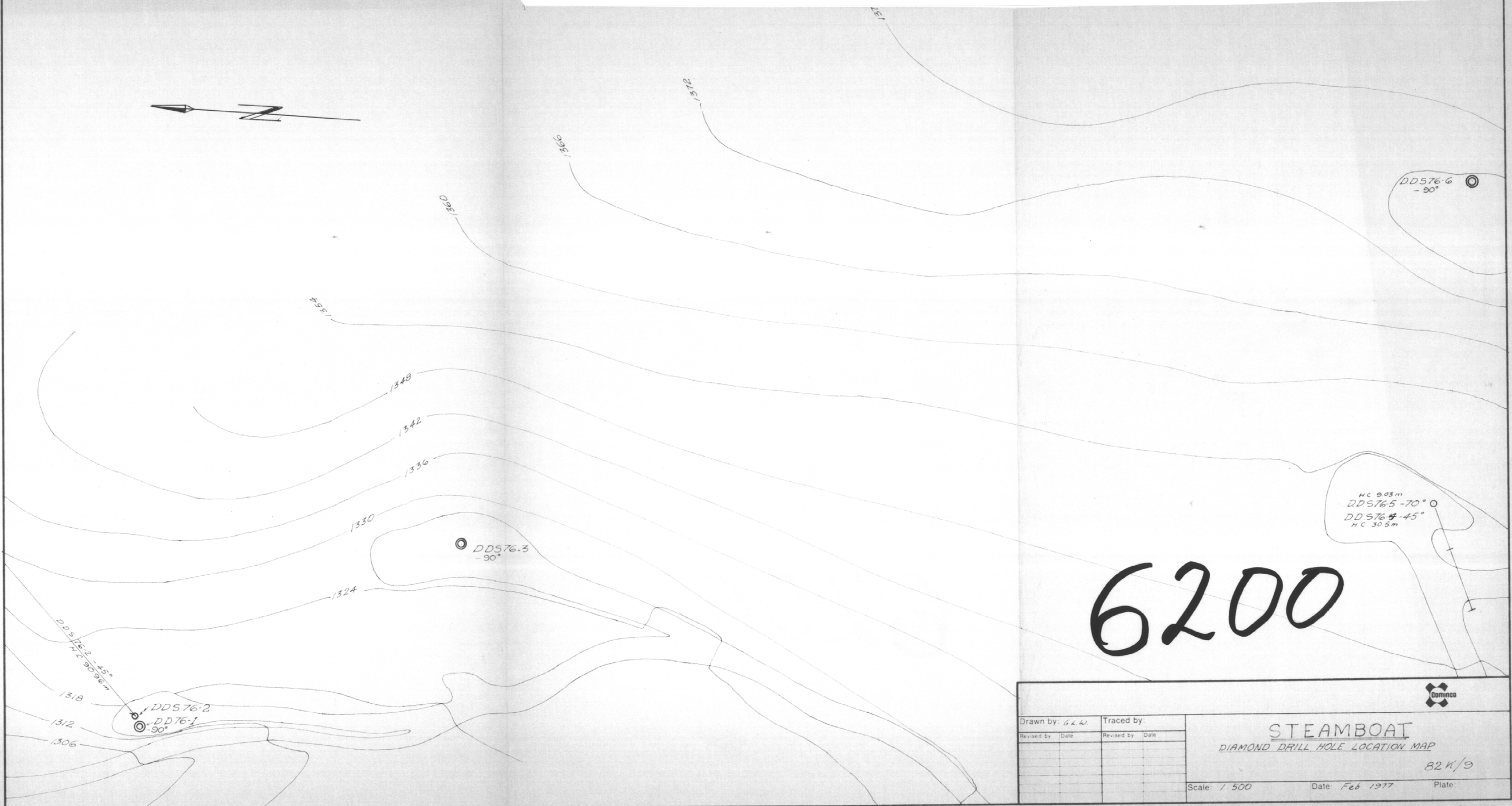
Scale

Colour Plot
& Dips

Drill Hole Record



Property		STEAMBOAT	District	GOLDEN	Hole No.	S76-2			Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet	
Commenced			Location		Tests at		Hor. Comp.									
Completed			Core Size		Corr. Dip		Vert. Comp.									
Co-ordinates					True Brg.		Logged by									
Objective					% Recov.		Date									
Footage		Description				Sample No.	Length	Analysis								
From	To															
111.43m	117.99m	Dolomite, fine-grained, crystalline, strongly hematized; interval is dull red in colour. Brecciated throughout with fragments of light grey dolomite in a reddish hematized matrix. Commonly also fragments are separated by hematized fractures. Occasional white, fine-grained barite veins are present, particularly near 113.72m. Numerous broken surfaces of core show weak slickensides; most core in this interval is fragmented to pieces greater than 10 cm length. At 116.31 a few cm. of fault gouge, also hematized, are present. One fracture contact is at 15° to ca.a. another at 25°. Grain size is noticeably coarser than in previous part of hole. No sulphides noted. 113.72 barite vein 1-2cm wide at 60° to c.a. Fractures related to fault at 381.5' 15° and 25°.														
		Assay No. 73: 111.43m to 113.11 m				29494		.08	.05	.12						
		Box 110.67m to 116.01m ~ 0.3m core loss.														
117.99m	118.38	Fault gouge. Limonitic; orange-brown in colour; rounded grey hematized dolomite fragments in fine-grained limonitic matrix. One contact at 15° to c.a.														
118.38m	119.21	Dolomite; light grey, fine-grained crystalline. Brecciated with fractures limonitic. Fine-grained dolomitic matrix which is locally developed is also limonitic and orange-brown coloured. Minor pods and small veinlets of white crystalline barite occur along fractures. Minor sulphide mineralization is also present. Few grains of recognizable galena, also possibly ZnS.														



6200



Drawn by: G.L.W.		Traced by:	
Revised by	Date	Revised by	Date

STEAMBOAT
DIAMOND DRILL HOLE LOCATION MAP

82 K/9

Scale: 1/500

Date: Feb 1977

Plate:

Scale

Colour Plot
& Dip

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN MINING DIST.	Hole No.	S76-3	ELEVATION	1326
Commenced	Aug. 8, 1976	Location	No. 3	Tests	at/nil	Hor. Comp.	n/a
Completed	Aug. 26, 1976	Core Size	NQ	Corr. Dip	-90°	Vert. Comp.	145.70m(478')
Co-ordinates				True Brg.	Logged by PK <i>P. Klerchak</i>		
Objective				% Recov.	Date AUG. 10/76		

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage From	To	Description	Sample No.	Length	Analysis			
					Ag.	Pb.	Zn.	Cu.
0m	3.05m	Casing - no core.						
3.05m	6.25m	Dolomite, fine-grained crystalline to micritic, light grey, brecciated and silicified throughout. Quartz locally comprises nearly all of the rock, especially near 5.20 m. Minor barite is present as thin (1.2mm) veinlets and as occasional pods up to ~1cm, diam.. Light brown limonite occurs along numerous fractures. Brecciation is intense at 4.25m and also at 5.80m; possibly representing small fracture zones. Sulphide mineralization: Galena and pyrite (+sphalerite?; none observed) occur from 4.25m to 6.25m. PbS is fine-grained, occurs along thin fractures which are later than silicification, and is variable in its concentration. PbS is notably abundant from approx. 5.50 m to 6.25 m. 3.35 m fracture at 75° to c.a. 3.75m fractures at 30° and 45° 4.20 m fracture at 50° to c.a. - adjacent to intense bx. 4.70m shear at 40° to c.a. 5.85m fracture at 40° to c.a.						
		Assay No. 1: 3.05 m to 5.20m	28677		06	.17	.02	.008
		Assay No. 2: 5.20m to 6.25m	28678		.1	1.3	.03	.02
6.25m	8.23m	No core: driller reports mud. Few rounded pebbles of fine-grained dark blue-grey quartzite. Evidently a soil-filled fracture in bedrock.						
THE CORE IS STORED IN RACKS IN COMINCO'S SULLIVAN MINE PROPERTY								

Scale

Colour Plot
& Dip

Drill Hole Record



page 2

Property	STEAMBOAT	District	GOLDEN	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage From To	Description	Sample No.	Length	Analysis			
				Ag	Pb	Zn	Cu
8.23m 9.45m	Dolomite, fine-grained or micritic. Strongly silicified; interval is mainly quartz. Commonly brecciated with limonite along fractures. Thin barite veinlets are present, also pods. Galena occurs over a 20 cm length near 8.85m. Here it appears to be precipitated within small elongate irregular vugs in the dolomite. No ZnS identified. This interval is similar to core from 3.05m to 4.25 m. 8.60m fracture at 60° to c.a.						
	Assay No. 3: 8.23m to 9.45 m	28679		.04	.39	.02	.01
9.45m 10.67m	Dolomite; light grey, fine-grained crystalline, mottled texture near 9.50m; brecciated (crackle breccia with quartz veinlets); thereafter. Quartz also occurs as small grains in detrital(?) dolomite fragments; dol-arenite or dol-rudite. Sulphide mineralization occurs throughout most of the interval; tetrahedrite and galena with both azurite and malachite on fracture surfaces. The sulphides occur as thin irregular veinlets related to fractures; fine-grained pyrite is also present, forming small veins and irregular pods to 6-7mm across.						
	Assay No. 4: 9.45 m to 10.67m	28680		.12	.70	.02	.04
10.67m 14.00m	Shale. Fine-grained, argillaceous, bluish-black in colour. Generally quite strongly sheared. Thin irregular branching veinlets of white dolospar (weakly calcareous). Shale is brecciated at 13.40 m with dolospar matrix. No recognizable bedding planes observed. Most fracture planes and shears are at 70° to c.a. Both upper and lower contacts appear conformable in that dolomite was deposited on the shale. Fragments of dolomite, usually sub-rounded in a shale matrix are present at both upper and lower contacts. Sulphide mineralization is notably increased immediately adjacent to the contacts (in the dolomite) but is not necessarily better than at other places in the dolomite: Assay No. 5: 10.67m to 14.00 m.						
		28681		.04	.03	.04	.003

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN	Hole No.	S76-3	Claim		T Brg.		Collar Dip		Elev.		Length		Hole No.		Sheet	
Commenced		Location		Tests at		Hor. Comp.													
Completed		Core Size		Corr. Dip		Vert. Comp.													
Co-ordinates				True Brg.		Logged by													
Objective				% Recov.		Date													
Footage From To	Description	Sample No.	Length	Analysis															
14.00m 16.65m	Dolomite; fine-grained crystalline, strongly silicified and brecciated. Light grey coloured dolomite is coloured by limonite along fractures and in bx matrix.			Ag.	Pb	Zn	Cu												
	15.90m to 16.65 m silicification is intense and the rock is almost entirely quartz.																		
	Thin, fractured barite veins are common from 14.00 into 15.90m less common to 16.65m although they form only a small volume of the rock. Barite is associated with the sulphide mineralization.																		
	Sulphide mineralization. Galena is quite abundant from 14.00 to 15.90 m; present in lesser abundance to 16.65m. It is fine-grained and occurs along thin veinlets and as small masses where veinlets intersect. No ZnS recognized although tetrahedrite is likely present; both malachite and azurite occur along a few fractures. Fine-grained pyrite occurs as one irregular vein to ~1cm wide at 14.80 m.																		
	14.90m fracture at 40° to c.a.																		
	15.00m fracture at 40° to c.a.																		
	15.90m fracture at 50° to c.a.																		
	16.60m fracture at 50° to c.a.																		
	Assay No. 6: 14.00m to 16.65m	28682		.12	1.24	.19	.02												
16.65m 19.20m	Barite and Dolomite.																		
	Barite forms 60% of the rock from 16.65m to 17.65m. It is white, fine-med-grained and contains minor grey sulphide which must be tetrahedrite; copper carbonates are present.																		
	Dolomite is light grey, fine-grained and is silicified. Brecciation is evident but for the most part the rock is more foliated than brecciated. Light brown limonite staining is present along fractures. Silicification occurs throughout the interval. Quartz occurs mainly as small broken (fractured) patches or individual grains, as well as veinlets.																		

Drill Hole Record



Property STEAMBOAT District GOLDEN Hole No. S76-3

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Claim T Brg. Collar Dip Elev. Length Hole No.

Footage From To	Description	Sample No.	Length	Analysis			
				Ag	Pb	Zn	Cu
16.65m 19.20	Sulphide mineralization galena occurs in the brecciated dolomite as fine-grained veinlets filling fractures. 18.00m to 19.20 m contains better galena than the first part of the interval. No ZnS recognized but fine-grained pyrite occurs as irregular veins associated with the better galena. Tetrahedrite occurs in the more massive barite from 16.65m to 18.00m.						
	16.80m 2 fractures at 45° to c.a.						
	17.35m 2 shears at 20° and 40° to ca.						
	18.00m 1 cm wide barite vein at 70° to c.a.						
	Assay No. 7: 16.65m - 18.00m	28683		10	18	09	05
	Assay No. 8: 18.00m to 19.20m	28684		16	1.6	78	03
19.20m 33.55m	Dolomite fine-grained crystalline (micritic) light grey colour. Brecciated throughout, individual fragments average 1cm across. Quartz veinlets and barite veinlets are present throughout the interval but silica generally decreases downwards. Light orange-brown coloured limonite occurs throughout the interval along the fractures and as part of the matrix where the breccia fragments are relatively small. Sulphide mineralization. Both galena and sphalerite occur in minor quantities throughout the interval as fine-grained masses and veinlets related to fractures. Distribution of the sulphides is not uniform but nowhere in the interval are the sulphides particularly concentrated. Core is generally quite broken, max. core length is ~10 cm. Numerous zones are represented by small fragments of dolomite, but core loss is minimal; 19.20m to 33.55 m core loss is ~1.25m.						

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage From To	Description	Sample No.	Length	Analysis			
				Ag.	Pb.	Zn.	Cu.
- 33.55m	19.25m fracture at 65° to c.a. (Barite also occurs as small irregular fine-grained pods).						
	21.05m fracture at 30° to c.a.						
	25.90m fracture at 70° to c.a.						
	26.50m 3 fractures at 45° to c.a.						
	26.90m shear contact between light grey dolomite and small bit of darker grey dolomite at 25° to c.a.						
	27.00m 3 fractures at 70° to c.a.						
	Assay No. 9: 19.20m to 21.65m	28685		.06	.09	.21	.003
	Assay No. 10: 21.65m to 24.40m	28686		.10	.13	1.08	.003
	Assay No. 11: 24.40m to 26.80m	28687	.08	.06	.15	.002	
	Assay No. 12: 26.80m to 29.90m	28688	.06	.12	.38	.003	
	Assay No. 13: 29.90m to 33.55m	28751	.06	.26	.08		
33.55m 34.75m	Dolomite (no silica, no barite observed).						
	Dark bluish-grey, fine-grained, crystalline, argillaceous near 34.00m; weakly brecciated with irregular branching veinlets of white dolospar; veinlets are 0.5to3mm wide minor fine-grained pyrite occurs as small blebs associated with dolospar veinlets. Dolomite is weakly calcareous. Core is strongly broken throughout the interval - max. length ~10 cm, quite rubbly near 34.75m Core loss 33.55m to 34.75m (1.20m) ~40cm.						
	Assay No. 14: 33.55m to 34.75m	28752	.05	.10	.04		
	Run from 34.60m to 37.50m 2.90m Core loss ~2.70m (0.20 m recovered) loss probably occurs from 34.75m to 37.45m.						

Scale

Colour Plot
& Dips

Drill Hole Record



page 6

Property	STEAMBOAT	District	GMD	Hole No.	S76-3	Claim		T Brg.		Collar Dip		Elev.		Length		Hole No.		Sheet	
Commenced		Location		Tests at		Hor. Comp.													
Completed		Core Size		Corr. Dip		Vert. Comp.													
Co-ordinates				True Brg.		Logged by													
Objective				% Recov.		Date													
Footage	Description	Sample No.	Length Ag	Analysis															
From To				Pb	Zn														
37.45m 42.05m	Dolomite; light grey, fine-grained, crystalline. Moderately brecciated throughout, with minor silica-filled fractures. Limonite is common along fractures. White dolospar occurs as matrix for finer-grained bx fragments. Core is strongly fractured - commonly only small fragments have been recovered. Sulphide mineralization; minor galena occurs as small blebs and fracture fillings. No sphalerite noted but small blebs of dark grey sulphide may be tetrahedrite (no Cu carbonates here, though), 39.60m fracture at 40°.																		
	Runs Length Short (core loss)																		
	37.50 - 38.40 0.90m 0.65m																		
	38.40 - 39.30 0.90m 0.75m																		
	39.30 - 40.55 1.25m 0.30m; 4.55m length - 2.05 m loss																		
	40.55 - 41.45 0.90m 0.20m																		
	41.45 - 42.05 0.60m 0.15m																		
	Assay No. 15: 37.45m to 39.70m) NOTE: Significant core loss (~45%) in this interval	28753	.2	.16	.08														
	Assay No. 16: 39m70 m to 42.05m	28754	.05	.03	.01														
42.05m 43.60m	Dolomite; fine-grained, crystalline. blue-grey (dark) in colour. Brecciated throughout but not intensely. Fractures are limonitic with minor silica veinlets along some fractures. No barite observed. Small shears at 45° to c.a. are present, brecciation is more intense along these zones, fragments are 2-3mm across and matrix is limonitic. Very minor galena and pyrite are present along a few fractures.																		
	42.05-4360m (1.55m) core loss is ~0.60m.																		
	Assay No. 17: 42.05m to 43.60m	28755	1.19	.59	.06														

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage From To	Description	Sample No.	Length	Analysis			
				Ag	Pb	Zn	
43.60m 47.65m	Dolomite; medium grey-blue grey. Fine-grained, crystalline. Brecciation is present throughout with limonite along fractures. A few fractures contain quartz veinlets. Small irregular pods of barite occur in the interval. Sulphides - minor galena and pyrite, also sphalerite (?) are present as fine-grained small masses along a few veinlets. 45.75m fracture at 50° to c.a. 45.85m irregular contact between med.-grey and blue-grey dolomite at 10° to c.a. Assay No. 18: 43.60m to 47.65m Core loss 43.60 to 47.65 1.10m	28756		.07	.21	.02	
47.65m 55.15m	Dolomite; medium grey, short sections are blue-grey, micritic - fine-grained. Interval is brecciated with quartz veins and barite veins and pods - crackle breccia. Limonite is common along fractures and where there is a fine-grained matrix to the breccia fragments. Barite occurs at the central zone of veins with quartz at the margin, indicating that barite was secondary to quartz. Sulphide mineralization: thin fracture veinlets of fine-grained galena, occasionally with sphalerite, occur sporadically through the interval. Even where more concentrated, the total amount of Pb and Zn is minor (greater than 2% combined, ^{est.} 0.00). The sulphides here do not appear to be strongly related to or associated with either quartz or barite. For the most part sulphides occur just in dolomite, sometimes associated with quartz. Barite is most abundant both near the beginning of the interval and again near the end. The barite veins are irregular and locally are up to 1.5cm wide. Fractures: 55° at 47.70 m 20° at 52.90m						



Drill Hole Record

Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.
Sheet

Footage From To	Description	Sample No.	Length Ag.	Analysis			
				Pb	Zn		
-55.15m	55° at 49.05m (3 fractures) 65° at 54.00m						
	65° at 49.65m						
	65° and 30° at 50.10m						
	75° and 35° at 50.65m						
	65° at 51.65m						
	30 °at 52.00m						
	Assay No. 19.: 47.65m to 49.85m (1.20m)	28757	.05	.13	.03		
	Assay No. 20: 49.185m to 51.50m (1.65m)	28758	.05	.15	.02		
	Assay No. 21: 51.50m to 53.80m (1.30m)	28759	.05	.08	.02		
	Assay No. 22: 53.80m to 55.15m (1.35m)	28760	.04	.02	.01		
	Core loss 47.65m to 55.15m ~0.90m approx. evenly distributed through interval.						
55.15m 56.65m	Dolomite; interval is quite intensely brecciated; not crackle breccia but (possibly) tectonic breccia. Shearing is evident and most of the dolomite occurs as small bx fragments 0.5 cm across. Dolomite is light grey to blue-grey, fine-grained, crystalline. ~50% of the interval is of breccia with coarser fragments (~1cm across); this portion is strongly fragmented; limonite along fractures and in bx matrix is common. Only very minor barite pods and quartz veinlets are present. Very minor fine-grained galena occurs as small fracture fillings in a few localities; also minor fine-grained dark hematite. 55.15m fracture at 65° 55.45m contact irregular - between bx light grey dol. and bx blue grey dol. at 55° 56.55m fracture at 45°						
	55.58 m shearing at 70° to c.a. Assay No. 23: 55.15m to 56.65m	28761	.06	.14	0.3		



Drill Hole Record

Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis			
				Ag	Pb	Zn	
- 70.85m	associated with the dark blue grey dolomite; the finer-grained dolomite. Only very minor barite is present as a few small isolated pods. Sulphides: a 20 cm. zone near 69.00m contains small veinlets of fine-grained PbS which cross-cut small veinlets of quartz; light orange-brown limonite and locally pink hematite occur along bx fractures.						
	64.40 m shearing at 45° to c.a.						
	66.15m fracture at 50°to c.a.						
	66.60m small band of blue grey dolomite ~10 cm wide with shear (?) contacts at 50°to c.a.						
	66.75m 2 cm wide shear zone with more intense limonite at 60°to 70°c.a.						
	70.50m contact (shear?) between 2 colours of dolomite at 60°to c.a.						
	Assay No. 26: 63.50 to 65.75m	28764	.05	12	01		
	Assay No. 27: 65.75 to 67.35m	28765	.05	03	02		
	Assay No. 28 67.35 to 70.85m	28766	.07	20	03		
	CORELOSS:						
	RUNS						
	LENGTH						
	CORE LOSS						
	63.40m-64.30m			0.90m		0.25m	
	64.30 -65.25			0.95		0.15	
	65.25 -65.85			0.60		0.30	
	65.85 -67.35			1.50		0	
	67.35 -68.30			0.95		0.70	
	68.30 -68.90			0.90		0.70	
	68.90 -69.50			0.60		0	
	69.50 -70.25			0.75		0.15	
	70.25 -70.85			0.60		0.20	

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.
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Footage		Description	Sample No.	Length	Analysis					
From	To				Ag	Pb	Zn	Cu		
70.85m	72.55m	Dolomite; grey with white mottling, fine-grained crystalline, moderately brecciated with quartz veinlets fairly common limonite occurs along fractures. Occasional minor pyrite is present - no PbS or ZnS observed. No barite. core loss is nil.								
		Assay No. 29: 70.85m to 72.55m	28767			.07	.05	.04		
72.55m	75.00m	Dolomite; grey, fine-grained, crystalline, moderate to strong brecciation with minor quartz veinlets. Limonite is common along bx fractures.								
		Sulphide mineralization Galena is common. Sphalerite is present in relatively minor quartzites								
		Sulphides occur along fractures in association with quartz. Significant leaching has occurred leaving small pore spaces, 2-3% by volume, which are usually proximal to patches of sulphides- possibly ZnS has been leached out.								
		73.10m fracture at 70° to c.a.								
		Core loss - nil.								
		Assay No. 30: 72.55m to 75.00m	28768			.12	.55	.79		
75.00m	82.95m	Dolomite: colour varies - grey to dark blue-grey. Fine-grained crystalline to micritic - dark blue-grey dolomite is finer-grained than grey dolomite. Barite pods and veins and quartz grains occur throughout the interval. Quite strong brecciation is evident, mostly crackle breccia, locally (72.30m) clastic breccia with rounded, rotated fragments in a quartz and dolomite matrix. Limonite occurs along the bx fractures and is locally quite prominent.								
		At 75.50m coarse fragments of light grey dolomite are separated by a 'matrix', of light brown argillaceous material - possibly a silty in-filling of open spaces caused by karst solution activity. Sulphide mineralization: Minor PbS and very minor ZnS and FeS ₂ occur throughout the interval. The sulphides typically occur along small irregular, branching fractures.								

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced	Location	Tests at	Hor. Comp.		
Completed	Core Size	Corr. Dip	Vert. Comp.		
Co-ordinates	True Brg.		Logged by		
Objective	% Recov.		Date		

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage From To	Description	Sample No.	Length	Analysis					
				Ag	Pb	Zn			
82.95m 84.65m	Dolomite; light grey, fine-grained, crystalline, weakly brecciated with a few silica veinlets, no barite. Limonite present along fractures. Minor sulphides PbS as very small masses in dolomite - usually along fractures. Core in this interval is broken - max. size 6 cm long. A short zone of clastic-type bx occurs near 84.50m; rounded, rotated dol. fragments in limonitic dolomite matrix. Core los: 50-60 cm.	28773		.06	.08	.02			
84.65m 85.90	Dolomite; light grey, fine-grained, xtalline; more strongly brecciated than previous interval. Quartz veins and barite pods and veins are present and more sulphides are present than in previous interval. Typical limonite occurs along fractures. Sulphides - predominantly PbS with minor FeS ₂ and ZnS. Galena and sphalerite occur along fractures, pyrite is disseminated in dolomite.	28774		.07	.16	.02			
85.90m 92.80	Dolomite; light grey, fine grained, crystalline. Generally weakly brecciated, locally moderately brecciated; crackle bx. Quartz veins common locally they are wider (5-7mm wide) than normal (1-2mm wide). Minor barite occurs as small pods scattered through the interval. Limonite occurs along bx fractures. Locally a limonitic argillaceous mud occurs along fractures (?-core broken); mud which possibly washed in to cavities in dolomite. Minor sulphides occur								



Drill Hole Record

Plot
Dips

Property	STEAMBOAT	District	GMD	Hole No.	DDH S76-3
Commenced	Location		Tests at		Hor. Comp.
Completed	Core Size		Corr. Dip		Vert. Comp.
Co-ordinates			True Brg.		Logged by
Objective			% Recov.		Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis					
				Ag	Pb	Zn			
to 92,80m	throughout the interval although they are less prominent than in the previous interval.								
	Fractures: 86.35m = 70°								
	88.55m = 40°								
	86.60m = 60°- 70°								
	90.35m = 40°								
	86.75m = 50°								
	91.00m = 40°								
	88.40m = 25-30°								
	RUNS	LENGTH	CORE LOSS						
	86.25-87.50m	1.25m	0m						
	87.50-88.70m	1.20m	0m						
	88.70-89.75m	1.05m	0m						
	89.75-90.55m	0.80m	0m						
	90.55-91.30m	0.75m	0m						
	91.30-92.05m	0.75m	0.65m						
	92.05m-92.65m	0.60m	0.45m						
	Assay No. 37: 85.90 to 88.30m			28775	.05	.34	.03		
	Assay No. 38: 88.30 to 90.50m			28776	.05	.09	.03		
	Assay No. 39: 90.50 to 92.80m			28777	.05	.06	.04		
92.80m 95.20m	Dolomite; medium grey, fine-grained, crystalline, locally with white mottling.								
	Crackle brecciated throughout with quartz veinlets common but only very minor barite veinlets.								
	Limonite is present along fractures. Sulphide mineralization: galena is common along narrow fractures as fine-grained veinlets FeS ₂ occurs as wavy veinlets and as disseminated grains.								
	Only very minor ZnS is present, also along bx fractures. Est. 1.5 - 2% combined Pb and Zn.								

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Footage		Description	Sample No.	Length	Analysis						
From	To				Ag.	Pb.	Zn.				
	to 95.20m	93.10m fracture at 50° to c.a.									
		94.10m fracture at 70° to c.a.									
		94.40m fracture at 60° to c.a.									
		95.00m fracture at 80° and 35° to c.a.									
		Assay No. 40: 92.80m to 95.20m	28778		.08	.37	.04				
95.20m	98.35m	Dolomite; medium grey to dark blue grey. Medium grey dolomite is commonly mottled white, fine-grained crystalline. Moderately brecciated throughout, more intensely brecciated near 96.45m/									
		Crackle bx predominates, near 97.25m a 20 cm interval of dark blue-grey dolomite is clastic breccia or dolrudite (rounded, rotated fragments in a finer-grained matrix).									
		A few veinlets of silica and pods of barite are present.									
		Minor PbS, FeS ₂ and ZnS (?) are present along narrow fractures - all quite minor.									
		Soft, argillaceous 'mud' occurs along more open fractures at a few localities. Limonite is present along bx fractures.									
		95.40m contact of light grey and dark blue-grey dol. at 40° to c.a.									
		95.45m fractures at 70° to c.a. No core loss.									
		97.25m contact of grey and blue-grey dol. at 40° to c.a.									
		Assay No. 41: 95.20m to 98.35m	28779		.05	.71	.01				
98.35m	99.85m	Dolomite; medium grey, mottled white. fine-grained, crystalline. Generally similar to mottled dolomite of previous interval but with a bit more sulphides. Galena, pyrite and sphalerite are present.									
		Near 99.60m sulphides are increased in association with abundant barite which occurs as irregular pods 1-2cm across. Silica, veinlets are present throughout, and limonite is common along bx fractures.									

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No.
 Sheet

Footage From To	Description	Sample No.	Length	Analysis			
				Ag.	Pb.	Zn.	Cu
to 99.85m	98.35m shear? contact? at 40° to c.a.						
	98.85m fracture at 25° to c.a. Barite associated with this fracture						
	Assay No. 42 98.35m to 99.85m						
99.85m 103.35m	Dolomite; similar to interval 95.20m to 98.35m.	28780		.07	.33	.01	
	Medium grey to dark blue grey dolomite, darker dol. predominates.						
	Moderately brecciated with minor silica veins and no observed barite.						
	Contacts between medium grey dolomite and darker grey dolomite often show 'elastic' type rounded fragments,						
	in finer-grained, limonitic matrix.						
	Pyrite occurs as a few wispy veinlets no PbS or ZnS observed.						
	Limonite is common along fractures and in fine-grained matrix of bx fragments.						
	99.85m fracture at 50° to c.a.						
	100.25m contact medium grey dolomite and dark blue grey dolomite at 20° to c.a.						
	100.65m shear at 40° to c.a.						
	102.40m fractures at 60° to c.a.						
	103.30m fracture at 50° to c.a.						
	Assay No. 43: 99.85m to 100.75m	28781		.05	.03	.02	
	Assay No. 44: 100.75m to 103.35 m	28782		.08	.10	.02	

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S-76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis					
				Ag.	Pb.	Zn	Cu		
103.35m107.80m	Dolomite; light grey to medium grey, locally a bit darker, commonly with white mottling; fine-grained, crystalline. Brecciated, weakly developed crackle breccia with minor quartz veinlets. Barite is also present as irregular veins commonly up to 5 cm wide. A light yellow-orange limonitic(?) alternation occurs along fractures. A short zone (105.40m to 105.70m) is vuggy and quite strongly hematized. Galena is common, although minor, along very thin branching veinlets. Sulphide is very fine-grained no other sulphides noted. PbS does not appear particularly related to either quartz or barite veins although it does locally occur with either. Irregular fractures at various orientations occur throughout the interval.								
	Assay No. 45 103.35m to 105.35m	28783		.07	.10	.02			
	Assay No. 46: 105.35m to 107.80m.	28784		.08	.14	.04			
107.80m109.80m	Dolomite; fine-grained crystalline, otherwise quite variable. Strongly sheared near beginning of interval, quite mottled dark bluegrey to light grey near the end of the interval with local hematization over very short (5-10cm) lengths. Minor silica and barite veinlets are present, throughout the interval. Very minor galena occurs in the first 40-50 cm., none thereafter. A yellowish limonitic alteration is present along the fractures. Fairly prominent shearing in the first 40 cm occurs at 70° to c.a. Parallel silica veinlets near 108.00m occur at 40-45° to c.a. 109.60m barite vein 3-7mm wide at 10° to c.a. (irregular).								
	Assay No. 47: 107.80m to 103.80m	28785		.06	.06	.02			

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-3
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis				
109.80m 112.25m	Dolomite; light grey, fine-grained crystalline. Brecciated throughout, both crackle bx and clastic bx. Rounded, floating clasts of light grey dolomite occur in a fine-grained limonitic dolomitic matrix. Minor veinlets of both quartz and barite are present. Near 110.35m numerous fractures are filled with a fine-grained very soft, brown, argillaceous 'mud'. One 8mm wide barite vein abutts against a prominent 3mm wide 'mud'-filled crack and no offset occurs; barite deposited from the cavity which now contains the 'mud'? Small veinlets of galena also occur in association with the mud-filled fractures; both ll to the fracture (adjacent to it) and at ~90° to the fracture. Moderate hematization over a 20 cm length occurs near 111.75m. Light brown limonite, occurs along most fractures in the interval. 111.20m fractures at 50° to 70° to c.a. Core from 109.80 to 110.00m is rubble, loss in the interval 30 to 40 cm.							
	Assay No. 48: 109.80m to 112.25m	28786		.11	.10	.03		
112.25m 117.05m	Dolomite; fine-grained, crystalline, medium grey, crackle brecciated with only very minor quartz; quite strongly hematized throughout; barite pods are present very irregular in shape. Gradational contact at 112.25 m from unhematized dolomite to hematized dolomite over 1-2cm Locally for short lengths the dolomite is dark blue-grey in colour (still hematized). A few fractures are filled with brown, very fine-grained, soft 'mud'-dolomite? argillaceous? Core loss in this interval : ~1.70m.							

Drill Hole Record



Property STEAMBOAT District GMD Hole No. S76-3

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From	To	Description	Sample No.	Length	Analysis					
117.05m	130.40m	Dolomite; medium to light grey, a few zones are darker bluish-grey; fine-grained, crystalline. Brecciated throughout, mainly moderate to strong 'crackle' breccia; locally clastic breccia (especially near ~119.80m). Silica veinlets are present throughout. Barite occurs only locally as irregular pods. Shearing, with minor movement along fractures, is present throughout the interval, most evident at contacts between grey and darker blue-grey dolomite. The light to medium grey dolomite commonly shows minor white mottling. Light yellow-brown limonite occurs along most fractures. Very minor fine-grained galena is locally present as small blebs and narrow veinlets, greater than 0.5%. No hematization in this interval.								
		RUNS								
		LENGTH								
		CORE LOSS								
	117.05m-118.55m	1.50m	1.10m							
	118.55m-121.00m	2.45m	1.45m							
	121.00m-121.90m	0.90m	0.20m							
	121.90m-123.45m	1.55m	0.35m							
	123.45m-125.60m	2.15m	1.40m							
	125.60m-127.40m	1.80m	1.50m							
	127.40m-128.30m	0.90m	0.40m							
	128.30m-129.25m	0.95m	0.30m							
	129.25m-130.45m	1.25m	0.80m							
	About 124.00m grey, dark blue-grey contact at 35° to c.a.									

Scale

Colour Plot
& Dips

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN MINING DIST.	Hole No.	S76-3	ELEVATION	1326
Commenced	Aug. 8, 1976	Location	No. 3	Tests	at/nil	Hor. Comp.	n/a
Completed	Aug. 26, 1976	Core Size	NQ	Corr. Dip	-90°	Vert. Comp.	145.70m(478')
Co-ordinates		True Brg.		Logged by	PK <i>P. Klerchak</i>		
Objective		% Recov.		Date	AUG. 10/76		

Footage		Description	Sample No.	Length	Analysis				Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
From	To				Ag.	Pb.	Zn.	Cu.							
0m	3.05m	Casing - no core.													
3.05m	6.25m	Dolomite, fine-grained crystalline to micritic, light grey, brecciated and silicified throughout. Quartz locally comprises nearly all of the rock, especially near 5.20 m. Minor barite is present as thin (1.2mm) veinlets and as occasional pods up to ~1cm, diam.. Light brown limonite occurs along numerous fractures. Brecciation is intense at 4.25m and also at 5.80m; possibly representing small fracture zones. Sulphide mineralization: Galena and pyrite (+sphalerite?; none observed) occur from 4.25m to 6.25m. PbS is fine-grained, occurs along thin fractures which are later than silicification, and is variable in its concentration. PbS is notably abundant from approx. 5.50 m to 6.25 m. 3.35 m fracture at 75° to c.a. 3.75m fractures at 30° and 45° 4.20 m fracture at 50° to c.a. - adjacent to intense bx. 4.70m shear at 40° to c.a. 5.85m fracture at 40° to c.a. Assay No. 1: 3.05 m to 5.20m Assay No. 2: 5.20m to 6.25m													
			28677			06	.17	.02	.008						
			28678			.1	1.3	.03	.02						
6.25m	8.23m	No core: driller reports mud. Few rounded pebbles of fine-grained dark blue-grey quartzite. Evidently a soil-filled fracture in bedrock.													
		THE CORE IS STORED IN RACKS IN COMINCO'S SULLIVAN MINE PROPERTY													

Drill Hole Record



ELEVATION: 1351

Property	STEAMBOAT	District	GOLDEN MD.	Hole No.	S76-5
Commenced	Sept. 1, 1976	Location	No. 1	Tests at	nil
Completed	Sept. 2, 1976	Core Size	NQ	Corr. Dip	-70°
Co-ordinates		True Brg.	Az. 246°	Logged by	PK <i>P. Klarschut</i>
Objective		% Recov.	c/1 1.6m	Date	Sept. 7/76

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No. Sheet

Footage From To	Description	Sample No.	Length	Analysis					
0m to 12.80m	No core - casing.								
12,80m 18.30m	Quartzite; minor argillite; grey-green, fine-med. grained. 12.80m to 13.75m quite strongly foliated and folded; quartz veins common; impression is that this is close to fault; Green argillaceous matrix chlorite, talc? is present, concentrated as bands parallel to quartz veins. The bands and veins are irregularly folded. Minor pyrite is present throughout. 13.75m to 18.30m. Quartzite is more massive with disseminated green chlorite (or talc?) and occasional fine-grains of pyrite. Narrow white to light yellow quartz veins are common near 15.25m. They are about 2mm wide and most commonly at 40 to 50 deg. to c.a. The core is increasingly argillaceous towards 17.70m, and 20 cm of core following 17.70 m is green-grey argil-ite. Argillite is very fine-grained, thinly bedded, with bedding at 5 deg. to 10 deg. to c.a. Shearing sub-parallel to the bedding has caused argillite beds to be discontinuous. Narrow veinlets of the green mineral - chlorite or talc occur sub-parallel to the bedding. Med-grained, yellow-white dolospar occurs as irregular veins at 35to 40 deg. to c.a. near 18.20m in quartzite.								
	RUNS: 12.80m to 13.70m/ 13.70-14.90m/ 14.90-17.70m / 17.70m - 18.30m.								
	LENGTH: 0.90m 1.20m 2.80m 0.60m								
	CORE LOSS: 0.40m 0.70m 1.30m 0.30m								
	TOTAL: 5.50m LOSS 2.70m								
THE CORE IS STORED IN RACKS ON THE SULLIVAN MINE PROPERTY									

Drill Hole Record



Property	STEAMBOAT	District	G.MD.	Hole No.	S76-5
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis						
18.30m 24.40m	Argillite, minor quartzite. Dull green to grey-green, very fine-grained, generally thinly bedded. Bedding is 5 deg to 10 deg. to c.a. so its nature is somewhat uncertain; local contortions in the bedding, commonly with narrow, isoclinally-folded, white quartz veins, are present. A 25cm length of 'dirty quartzite' from 19.80 to 20.05m is similar to interval from 13.75m to 18.39m. Small irregular pods of fine-grained pyrite are usually associated with minor structural irregularities (folded quartz veins). Thin (greater 1mm) quite regular, laminae, like veinlets of green talc (+chlorite?) are present in the argillite from about 23.15 to 24.40m. They offset the thin argillite beds; en echelon fracturing. Fractures with veinlets are at about 30 deg. to c.a. Most fractures in the core are at this, about 30 deg. to c.a. orientation, although numerous other minor fractures are also present:									
	RUNS	LENGTH	CORE LOSS	This is probably McKay Em.						
	18.30m-18.90m	0.60m	0.20m							
	18.30m-19.80m	0.90m	0.50m							
	19.80m-20.40m	0.60m	0.0m							
	20.40m-21.65m	1.25m	0.25m	24.40m end of Hole						
	21.65m-22.25m	0.60m	0.10m							
	22.25m-23.15m	0.90m	0.30m							
	23.15m-24.40m	1.25m	0.25m							
	TOTAL	6.10m	1.60m							

Scale

Colour Plot
& Dips

Drill Hole Record



ELEVATION: 1374

Property	STEAMBOAT	District	GOLDEN MD.	Hole No.	S76-6
Commenced	Sept. 7, 1976	Location	No. 6	Tests at	nil
Completed	Sept. 24, 1976	Core Size	NQ	Corr. Dip	-90°
Co-ordinates				True Brg.	Logged by PK <i>P. Klevick</i>
Objective				% Recov.	Date Sept. 10, 1976

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

Sheet

Footage	Description	Sample No.	Length	Analysis
From	To			
0m	to 3.95m			
No core - casing; bedrock intersected about 2.75m; drilled to 3.95m without core barrel to be sure it was bedrock.				
3.95m	to 11.90m			
Dolomite: light grey, fine-grained, micritic to crystalline; weakly 'crackle' brecciated; occasional narrow veinlets of quartz. Barite is more abundant than quartz, although still quite minor, occurring as narrow veins and small irregular pods. Numerous of the breccia fractures contains white fine-grained dolomite along with relatively minor quartz. Minor limonitic staining occurs along most fractures. From about 5.80m to 6.70m copper staining, both malachite and azurite; are quite abundant but no tetrahedrite seen. Pyrite also occurs in this zone; as fine-grained; usually very narrow, wavy veinlets; no galena or ZnS observed. Note: o/c immediately above collar location, although also only weakly brecciated; does contain easily noticeable galena as well as copper staining. For the most part, core is quite badly broken throughout the entire interval; longest in-tact piece is about 10 cm.				
		RUNS	LENGTH	CORE LOSS
		3.95m-4.55m	0.60m	0.30m
		4.55m-5.50m	0.95m	0.55m
		5.50m-6.70m	1.20m	0.55m
		6.70m-7.90m	1.20m	0.90m
		7.90m-8.85m	0.95m	0.45m
		8.85m-9.45m	0.60m	0.20m
		9.45m-10.35m	0.90m	0.20m
		10.35m-10.95m	0.60m	0.45m
		10.95m-11.90m	0.95m	0.25m
TOTAL 7.95m; Loss: 3.85m About 50%.				

CORE STORED IN RACKS ON SULLIVAN MINE PROPERTY

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN MD.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis				
11.30m-18.70m	Dolomite; light grey, fine-grained, micritic to crystalline. Generally similar to previous interval but minor hematization occurs in this interval and occasional clastic breccia is present. Only sulphide noted is pyrite which occurs as hematized wavy thin veinlets. Both silica and barite are very minor in the weak crackle bx which is present throughout most of the interval. White dolomite is the most prominent vein-forming mineral. At 18.0m a 4 cm wide zone of clastic bx, possibly shear-related, occurs at 45° to c.a. Core here is also strongly fragmented.							
	<u>RUNS</u>	<u>LENGTH</u>	<u>CORE LOSS</u>					
	11.90m-13.10m	1.20m	0.20m					
	13.10m-13.70m	0.60m	0.15m					
	13.70m-14.65m	0.35m	0.60m					
	14.65m-15.25m	0.60m	0.30m					
	15.25m-15.85m	0.60m	0.40m					
	15.85m-17.70m	1.85m	0.50m					
	17.70m-18.60m	0.90m	0.40m					
		6.70m	2.55m					
18.70m 19.15m	Dolomite and dolarenite. Light grey, micritic dolomite and medium-grained granular light grey 'sandstone' composed of dolomite grains. Although the core is badly broken the arenite appears brecciated, with white dolomite veins along some fractures. Occasional small patches of green-grey very fine-grained argillaceous 'mud' are present in the dolarenite and a few fractures are encrusted with a similar(?) hematized argillaceous 'mud'. Most of the dolarenite is lightly hematized also.							

Scale

Colour Plot
& Dip

Drill Hole Record



Property	STEAMBOAT	District	GMD	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.
Sheet

Footage		Description	Sample No.	Length	Analysis				
From	To								
19.15m	31.40m	Dolomite; light grey, very finely crystalline or micritic; weakly brecciated throughout; locally moderately brecciated. Quartz veinlets and barite veins and irregular small pods are present throughout the interval but are quite minor; Fine to medium grained white dolospar veins; 2-5mm wide are relatively common. These veins often surround angular fragments of grey dolomite. Dolospar veins commonly have very narrow limonitic or hematitic margins; As though original fractures were first coated with Fe oxides, then dolospar veins were emplaced. Locally, small vugs in the veins give a + reduction to AB Zn solution. Minor fine-grained pyrite forms small lens-like bodies and narrow wavy veinlets at numerous places within the interval. Core recovery is considerably improved in this interval.							
		19.30m fracture at 30 deg. to c.a.							
		21.50m fracture at 70 deg. to c.a.							
		23.30m fractures at 80 and 70 degs. to c.a.							
		25.30m fractures at 80 and 70 degs. to c.a.							
		25.30 to 31.40m shows numerous high 4 fractures - 60 to 90 degs. c.a.							
		RUNS	LENGTH	CORE LOSS					
		19.20m-20.75	1.55m	0.20m					
		20.75m-22.25m	1.50m	0m					
		22.25m-23.15m	0.90m	0.20m					
		23.15m-24.10m	0.95m	0.20m					
		24.10m-25.90m	1.80m	0.15m					
		25.90m-26.50m	0.60m	0.10m					
		26.50m-28.95m	2.45m	0m					

Drill Hole Record



Property STEAMBOAT District GOLDEN M.D. Hole No. S76-6

Commenced Location Tests at Hor. Comp.

Completed Core Size Corr. Dip Vert. Comp.

Co-ordinates True Brg. Logged by

Objective % Recov. Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage	Description	LENGTH	CORE LOSS	Sample No.	Length	Analysis				
From To	RUNS									
31.40m	28.95m-30.15m	1.20m	0m							
	30.15m-3170m	1.55m	0m							
	TOTAL LENGTH	12.50m	0.85m							
31.40m-32.60m	Dolomite; light grey, fine-grained, crystalline or micritic; similar to previous interval but characterized by more intensive brecciation. Bx is largely clastic bx but also weak crackle breccia. Silica and barite are rare. Near 32,55m a brown argillaceous matrix is present between fragments of dolomite. Limonite is common along fractures. Pyrite is present as narrow hematized veinlets and small elongate pods. Core loss nil.									
32.60m-34.90m	Dolomite; light grey, fine-grained crystalline or micritic, mottled to white colour; weakly brecciated; crackle bx. Only very minor silica and barite are present; very minor pyrite as small pods (greater 1/2mm diam.); no Pb or Zn mineralization seen. Fractures commonly occur at high angles to c.a. - 60 to 80 deg. No core loss.									
34.90m-51.05m	Dolomite; similar light grey, fine-grained crystalline to micritic. Weakly crackle-brecciated throughout. Quartz and barite are quite minor; in the first few m. of the interval a number of short zones of 'clastic bx' are present, with angular to sub-rounded fragments of grey dolomite in a matrix of fine to med. grained white dolospar. Limonite and hematite occur along fractures, and fine-grained pyrite occurs locally as fine-grained, usually hematized, wavy veinlets. At 41.75m a small shear at 45 deg. to c.a. has associated with it about 2 cm of crushed dolomite. Numerous branching veins in the lower half of the interval show increased hematization. This may be hamatized pyrite but only hematite is recognizable. 44.20m irregular wavy 'vein' 3-4mm wide of brown-green argillaceous material; a mud-filled crack? Near 49.70m numerous other irregular 'veins' of green argillaceous material are present; although the core is still occasionally									

Drill Hole Record



Property STEAMBOAT District GOLDEN M.D. Hole No. S76-6

Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No.
 Sheet

Footage From To	Description	Sample No.	Length	Analysis						
	badly broken over short intervals; core loss is minimal except from 48.45 m to 49.70m where loss is about 50%.									
51.05m 51.70m	Dolarenite; bedded. Greenish grey coloured, fine-med. grained, generally poorly sorted, dolomite sandstone. A definite fabric, which must be bedding, occurs at 50 deg. to c.a. Larger, clasts of dolomite are sub-rounded. Minor fine-grained pyrite is scattered through the interval, as individual grains and grain aggregates greater 2mm diam. Recrystallized, fine to medium-grained, white dolospar forms irregular small pods in the dolarenite. (This interval could be a foliated crush zone from the texture but evidence for shearing is not present in the adjacent dolomite). An irregular quartz vein about 2-3mm wide occurs near 51.15m. Core is broken here and its nature is not discernible.									
51.70m 87.50m	Dolomite; medium to light grey, fine-grained crystalline or micritic. Generally mottled throughout; irregular patches of fine-medium grained white dolospar. Intensity of the mottling varies but does so with no apparent regularity. Weakly to moderately brecciated throughout. Silica veinlets are present from 51.70m to about 56.70m. Irregular pods of white crystalline barite occur sporadically from 51.70 to about 55.50m white dolomite is the most common vein-filling material; occurring as such throughout the interval. Iron oxide weathering or staining, both limonite and pink hematite, occurs along most fractures. Short zones, usually greater than 5 cm wide, are of clastic breccia which has been caused by shattering of the dolomite; fragments are commonly very angular and elongate to long direction of the zone. Small cracks are often filled by green-brown argillaceous material. It is soft and gives the impression of being a mud which has filled the open spaces formed during fracturing.									



Drill Hole Record

Property	STEAMBOAT	District	GOLDEN M.D.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Footage From	To	Description	Sample No.	Length	Analysis						
					Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	
to	87.50m	At 55.60m a 15 cm zone is brecciated with angular fragments of grey dolomite surrounded by a matrix of this green-brown argillite. No sulphides seen within this interval except for very minor hematized pyrite. Stylolitic solution-type contacts are locally very abundant, particularly where mottling is most intense. Dark specks which could be organic material or a dark staining such as Mn, are common along the stylolitic contacts.									
		57.90m Argillite-filled irregular crack about 15mm wide (minimum).									
		61.60m 2 cm wide brecciated fracture at 20 deg. to c.a.									
		64.30m to 65.25m about 1m long fracture or crack subparallel to core axis, hematized along one preserved side, filled with green argillite. Minimum thickness about 2cm.									
		68.60m to 70.10m. Dolomite is slightly darker grey colour here, otherwise similar to rest of interval.									
		85.05m short zone (about 10cm long) is fractured with hematitic pyrite(?) along veins. At about 85.10m/									
		A fracture at 40 deg. to c.a. contains about 15mm thickness of brown argillaceous material. This is similar to argillaceous material seen in previous veins. Core recovery in this interval is generally good and core is less broken than higher in the hole although numerous zones of strongly broken core still occur.									
		RUNS	LENGTH	CORE LOSS							
		49.70-50.30m	0.60m								
		50.30-51.80m	1.50m	0.30m							
		51.80-53.35m	1.55m								
		53.35-54.85m	1.50m	0.20m							

Drill Hole Record



Property STEAMBOAT District GOLDEN M.D. Hole No. S76-6

Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Claim
 T Brg.
 Collar Dip
 Elev.
 Length
 Hole No. Sheet

Footage		Description RUNS	LENGTH	CORE LOSS	RUNS	LENGTH	CORE LOSS	Sample No.	Length	Analysis						
From	To															
		54.85-56.10m	1.25m		84.10-85.35m	1.25m	0.10m									
		56.10-57.90	1.80m		85.35-86.85m	1.50m	1.10m									
		57.90-58.85m	0.95m													
		58.85-59.45m	0.60m													
		59.45-60.95m	1.50m	0.40m	TOTAL	37.15m	6.10m									
		60.95-64.00m	3.05m													
		64.00-65.25m	1.25m	0.20m												
		65.25-66.15m	0.90m	0.40m												
		66.15-69.20m	3.05m	0.20m												
		69.20-70.70m	1.50m	0.50m												
		70.70-71.30m	0m60m	0.10m												
		71.30-73.15	1.85m	0.20m												
		73.15-74.35m	1.20m	0.30m												
		74.35-75.60m	1.25m	0.20m												
		75.60-76.50m	0.90m	0.45m												
		76.50-77.70m	1.20m	0.25m												
		77.70-79.25m	1.55m	0.20m												
		79.25-80.15m	0.90m													
		80.15-81.40m	1.25m	0.20m												
		81.40-82.30m	0.90m	0.70m												
		82.30-83.50m	1.20m													
		83.50-84.10m	0.60m	0.10m												

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN MD.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis																									
87.50m 94.50m	Dolomite; medium grey, fine-grained crystalline. Generally very weakly crackle brecciated; Minor quartz veinlets and barite pods occur at about 87.50m, barite occurs again near 88.85m; otherwise quartz and barite are absent from the interval. Small vugs, 2-3mm across, are common from 87.50 to about 90.00m. They are encrusted with fine-grained white dolospar which is usually stained by light brown limonite. 89.05 small fracture zone at 40 deg. to c.a.																												
	<table border="1"> <thead> <tr> <th>RUNS</th> <th>LENGTH</th> <th>CORE LOSS</th> </tr> </thead> <tbody> <tr> <td>86.85-88.40m</td> <td>1.55m</td> <td>0.20m</td> </tr> <tr> <td>88.40-89.60m</td> <td>1.20m</td> <td></td> </tr> <tr> <td>89.60-90.55m</td> <td>0.95m</td> <td>0.80m</td> </tr> <tr> <td>90.55-92.95m</td> <td>2.40m</td> <td>1.30m</td> </tr> <tr> <td>92.95-94.20m</td> <td>1.25m</td> <td>1.00m</td> </tr> <tr> <td>TOTAL</td> <td>7.35m</td> <td>3.30m</td> </tr> </tbody> </table>	RUNS	LENGTH	CORE LOSS	86.85-88.40m	1.55m	0.20m	88.40-89.60m	1.20m		89.60-90.55m	0.95m	0.80m	90.55-92.95m	2.40m	1.30m	92.95-94.20m	1.25m	1.00m	TOTAL	7.35m	3.30m							
RUNS	LENGTH	CORE LOSS																											
86.85-88.40m	1.55m	0.20m																											
88.40-89.60m	1.20m																												
89.60-90.55m	0.95m	0.80m																											
90.55-92.95m	2.40m	1.30m																											
92.95-94.20m	1.25m	1.00m																											
TOTAL	7.35m	3.30m																											
94.50m 106.40m	Dolomite; medium-light grey, fine-grained, crystalline or micritic. Weakly crackle brecciated, locally clastic brecciated. "clastic" breccia zones are related to fracturing - angular fragments in a fine-grained ground mass. No quartz veins seen but small irregular pods of white crystalline barite occur sporadically throughout the interval. Locally, the dolomite is mottled white by fine-grained white dolospar. Most mottle patches are quite nebulous but some show rather distinct boundaries. Mottling appears most distinct in areas where stylolitic solution-recrystallization contacts are present. These stylolitic contacts appear to be recrystallized breccia fractures; no sulphides noted; core is commonly quite broken.																												

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From	To	Description	Sample No.	Length	Analysis								
		RUNS	LENGTH	CORE LOSS	RUNS	LENGTH	CORE LOSS						
		94.20-95.40m	1.20m	0.10m	100.60-101.80m	1.20m	0.30m						
		95.40-97.25m	1.85m	-	101.80-103.35m	1.55m	0.60m						
		97.25-97.85m	0.60m	-	103.35-103.95m	0.60m	0.10m						
		97.85-99.35m	1.50m	0.40m	103.95-105.45m	1.50m	1.20m						
		99.35-100.60m	1.25m	0.30m	105.45-107.00	1.55m	0.65m						
		TOTAL		12.80m	CORE LOSS		3.65m						
106.40-107.15m	Dolomite; medium grey, fine-grained, crystalline. Brecciated, with abundant barite veins. Brown limonite staining is common along barite dolomite contacts. A dark grey-black mineral (Mn oxide?) occurs along some fractures. At 106.40m a 2-3cm wide vein (?) of light grey green argillaceous material occurs along a fracture in the brecciated dolomite at 50 deg. to c.a.												
107.15-109.90m	About 40 cm of badly ground core - cavity intersected in this interval; bits of core remaining are dolomite varying from white to dark grey in colour. White dolomite predominates. Dolomite is crackle brecciated, no quartz or barite are present. 107-109.60m 2.60m; 2.30 core loss.												
109.90-111.75m	Dolomite; light to medium grey, fine-grained crystalline. Some mottling by white dolomite is present; entire interval is crackle brecciated. One small quartz vein seen; no barite. Brown limonite staining is present along fractures. Near 110m minor hematite occurs along fractures.												
		109.50m to 110.95m	1.35m	0.85m	core loss								
		110.95m-111.85m	0.30m	0.40m	core loss								

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN M.D.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No. Sheet

Footage From To	Description	Sample No.	Length	Analysis				
111.75m 116.90m	Dolomite; medium-light grey, commonly mottled white, fine-grained crystalline. Strongly brecciated throughout; clastic type brecciation but recrystallization has cemented the fragments so the rock is quite solid (one 40cm length is the longest single piece of core to date). Vein quartz is locally common. Numerous fractures, commonly with small angular fragments of dolomite in a fine-grained dolomitic matrix, cut across the brecciated dolomite, usually at angles greater than 30 deg. to c.a. Near 116.43m narrow irregular veins at 5 to 15 deg. to c.a. are filled with brown argillaceous material. At 115.75m a black mineral partly fills fractures. Minor copper carbonate (malachite) is associated with it therefore possibly chalcocite (hardness about 4). A few grains of PbS occur at 116.15m. Lower contact of this zone with underlying dolomite is a fracture (at 116.90m) at 40 deg. to c.a.							
	RUNS	LENGTH	CORE LOSS					
	111.85-114.60m	2.75m	2.25m					
	114.60-116.15m	1.55m	0.20m					
	116.15-117.65m	1.50m	0.30m					
116.90m 120.40m	Dolomite; medium grey, mottled white, fine-grained crystalline. Weakly crackle brecciated throughout. Both quartz and barite veins are present but in minor quantities. Fractures commonly are stained by brown limonite. Some mottled patches (white dolomite) are bounded by a liminitic stain, other patches have more nebulous, gradational boundaries.							

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN M.D.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis					
125.60m 126.50m	Dolomite; light grey, fine to medium-grained crystalline. Moderately to strongly crackle brecciated throughout. Very minor barite is present but no silica. Fractures are moderately to strongly hematized. This is the first strong showing of hematite in S76-6.								
126.50-129.65m	Dolomite; light grey to grayish-white, fine-grained, crystalline. Variably crackle brecciated; commonly weakly bx but locally more intensely bx. limonite along fractures and stylolitic contacts are common; generally the interval is quite similar to 120.40 to 125.60m interval; quartz veins not present but barite is; barite occurs as relatively large fracture fillings (3-4cm long by 1/2cm wide). These larger barite pods are similar to those seen near the end of DDH S76-3. Small fragments or patches (max. 3cm across) of dark grey dolomite occur near 128.95m in a 15cm length of clastic bx. Argillaceous fracture fillings are also quite common.								
	RUNS	LENGTH	CORE LOSS						
	125.60-128.65	3.05m							
	128.65-129.70m	1.05m							
129.65-130.50	Dolomite; light to medium grey, fine -grained, crystalline. Moderately crackle brecciated. No barite, silica observed. Fractures are hematized. 129.70 to 130.45m; 0.75m about 0.05m core loss.								
130.50-131.75m	Dolomite, medium grey, fine-grained, crystalline. Weakly crackle brecciated. Thin veinlets of quartz, irregular pods. (to 4 cm across) of barite, are present. Brown limonite is common along fractures. A few stylolitic contacts occur in the interval; they contain both fine-grained pyrite and grey-green soft argillite; 130.45 to 132.15 - 1.70m - no core loss.								
131.75m134.10m	Dolomite; dark grey, fine-grained, crystalline; weakly crackle brecciated; min or thin quartz veinlets are present; no barite. Light brown limonitic stain occurs along fractures.								

Drill Hole Record



page 11

Property	STEAMBOAT	District	GOLDEN M.D.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From	To	Description	Sample No.	Length	Analysis
to 134.10m		Contact at 134.10m with lighter grey dolomite is at 30 to 35 deg. to c.a., irregular and stylolitic			
		132.15m to 132.75m - 0.60m; 0.10m core loss			
		132.75m - 133.20m - 0.45 m; 0.15m core loss.			
134.10m	145.60m	Dolomite; variably coloured from light and medium grey to greyish white. Small zones are darker grey. Fine to medium-grained crystalline. Weakly brecciated throughout. Quartz occurs only locally as rare thin veinlets and small irregular masses associated with barite. Barite is more common, although still minor, occurring usually as very irregular pods. One pod near 143.85 m is about 7 cm across. Mottling by white dolomite is quite common within the interval. Numerous small shears are present, usually with a narrow 1 to 2 cm wide crushed and recrystallized zone. Two zones of clastic-type breccia are present. One near 136.55m the other near 142.20m. Each zone is about 30 cm in length and contains sub-rounded and rounded (rounding probably due to recrystallization) fragments of various-coloured dolomite (white to dark grey) in a matrix of fine-grained greyish-white dolomite. Limonite is common along fracture surfaces and occurs also disseminated through the dolomite; particularly where structural complexity such as shearing or barite veining is present. Numerous stylolitic contacts are present; they are usually limonitic and occasionally pyritic or with soft argillaceous material. The lowermost about 1.30m of the interval is vuggy with small 1 to 3 cm diam. vugs common. The vugs are encrusted with milky white fine-grained dolospar and commonly stained light brown.			
		Contact at about 138.00m between dark grey and light grey dolomite is sharp at 60 deg. to c.a.			

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN M.D.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis					
to 145.60m	RUNS								
	LENGTH								
	CORE LOSS								
	133.20-135.80m		2.60m						
	135.80-137.60m		1.80m						
	137.60-140.65m		3.05m	0.20m					
	140.65-141.90m		1.25m						
	141.90-144.35m		2.45m						
	144.35-145.40m		1.05m	0.10m					
	TOTAL		12.20m	0.30m core loss					
145.60-147.20m	Dolomite; dark grey, fine-grained; weakly brecciated. No quartz or barite seen. Fractures commonly limonitic. Near 146.95m a 10 cm. zone is sheared - angular elongate fragments of dark grey dolomite are in a matrix of lighter, iron stained dolomite.								
	145.40m-146.15m		0.75m;	0.25m core loss)					
	146.15-146.75m		0.60m;	0.20m core loss)	1.35 m;	0.45m core loss.			
147.20-153.00m	Dolomite; variably coloured; predominantly medium grey but locally light grey, greyish white and dark grey, fine-grained crystalline throughout. Weakly to locally strongly hematized from 149.20m to 153.00m. Weakly brecciated throughout; no quartz veins noted but a few small barite pods or veins are present. Brownish limonite staining is present locally. A few stylolitic contacts are present; occasionally these contain hematized pyrite.								
	CORE LOSS: 146.75m to 148.15m; 1.40m; 0.20m core loss.								
	148.15m-149.05m; 0.90m; 0.10m core loss								
	149.05m to 150.90m; 1.85m;								
	150.90m-151.80m; 0.90m;								
	151.80m-152.55m; 0.75m; 0.25m core loss								

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN M.D.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis						
153.00m-157.20m	Dolomite; greyish white to light grey. Commonly fine-grained, locally recrystallized to very coarse-grained; individual xtals greater than 5 cm across. Generally weakly brecciated. No quartz veining but barite patches are present. A few thin stylolitic contacts occur in the upper 30 cm. At 153.85m about 5cm length of core is quite vuggy with barite partly filling the vugs. Small vugs (1-3mm across) are also present near 156.65m. Most fracture surfaces are weakly hematized. Core recovery: 152.55-153.80; 1.25m; no core loss 153.80-155.30m; 2.10m; no core loss. 155.90-157.10m; 1.20 m: no core loss.									
157.20m-159.00m	Dolomite, light medium grey; fine-grained; crystalline. Vuggy and mottled vugs are small 1-5mm diam. and irregular. Commonly encrusted with white (and pink due to hematization) dolospar and minor calcite; where the vugs are filled and a irregular patch of white dolospar is present; causing the mottling. Only a few irregular fractures are present; brecciation is very weak or has been strongly masked by recrystallization. Core Recovery: 157.10 to 158.50m; 1.40 m: 0.35 m core loss.									
159.00-161.10m	Dolomite light -medium grey, fine-grained crystalline. WEakly brecciated, fractures are lightly coloured with limonite and hematite. At 160.15m a 20 cm. zone shows clastic brecciation; fragments of medium grey and dark grey dolomite have been rotated and enclosed by greyish-white fine-grained dolomite matrix. 2 distinct contacts are present at this bx zone (between 2 colours of dolomite), at 15 to 30 deg. to c.a. No core loss: 158.50m to 160.65m; 2.15m.									

Drill Hole Record



Property	STEAMBOAT	District	GOLDEN M.D.	Hole No.	S76-6
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Claim
T Brg.
Collar Dip
Elev.
Length
Hole No.

Footage From To	Description	Sample No.	Length	Analysis				
161.10m181.15m	Hematized Dolomite; light to medium grey but strong pink to red colour caused by hematite along fractures. Commonly fine-grained crystalline but locally recrystallized to med. grain size. Moderately to strongly brecciated; notably more intensely than in previous few intervals. Quartz veins not seen but barite continues to occur sporadically as pods or very irregular vein fillings. Commonly vuggy with usually elongate vugs up to 3 cm long by 1 cm wide. Vugs generally encrusted by hematite-stained dolospar. Core is notably more broken in the hematized zone than in previous intervals. A few short zones are darker grey in colour. Stylolitic contacts are locally common and they often contain a soft, hematitic material (like soft argillite). Hematization is particularly intense from about 174.35m to 175.25m and from 178.00 to 180.15m. Usually the more intense hematization is associated with more intense shearing or brecciation. Occasionally a lighter brown limonitic staining is present along some fractures. Very minor copper staining (malachite) occurs near 166.10m.							
	CORE RECOVERY _____ LENGTH _____ CORE LOSS _____							
	160.62 to 162.75m 2.10m							
	162.75 to 164.30m 1.55m							
	164.30 to 165.05m 0.75m			0.10m				
	165.05 to 165.95m 0.90m			0.10m				
	165.95 to 168.55m 2.60m							
	168.55 to 169.45m 0.90m			0.20m				
	169.45 to 170.10m 0m65m			0.25m				

Drill Hole Record



Property STEAMBOAT District GOLDEN MD.. Hole No. S76-6

Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Claim
 True Brg.
 Collar Dip
 Elev.
 Length
 Hole No.

Footage From To	Description	LENGTH	CORE LOSS	Sample No.	Length	Analysis					
170.10 to 171.90		1.80m									
171.90 to 172.80m		0.90m	0.10m								
172.80 to 174.20m		1.40m	0.20m								
174.20 to 175.10m		0.90									
175.10 to 175.70		0.60m	0.15m								
175.70 to 176.95m		1.25m	0.15m								
176.95 to 177.70m		0.75m	0.15m								
177.70 to 180.45m		2.75m									
180.45 to 181.05m		0.60m									
TOTAL		20.40m	1.40 core loss								
181.15-197.00	Dolomite; predominantly very light grey or greyish white, varying locally to medium and darker grey, generally fine-grained crystalline but locally recrystallized to very coarse-grained. Moderately to strongly brecciated throughout; fractures are hematized (generally not as intensively as in previous interval). Numerous short zones display clastic brecciation, often in association with minor shears. Small vugs are present throughout; they are encrusted with medium-grained very light grey dolospar. Over-all the structure appears very disrupted; patches of light grey to white very coarse grained dolospar are in irregular contact with fine-grained light grey dolomite. Hematization throughout the interval is moderate but locally, particularly in association with small shears, hematization is more intense. As in the previous interval, a few shears contain brown limonite rather than hematite.										

Drill Hole Record



Property **STEAMBOAT** District **GOLDEN M.D.** Hole No. **S76-6**

Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis						
				Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	
	CORE RECOVERY									
	LENGTH									
	CORE LOSS									
	181.05 to 182.45m		1.40m							
	182.45 to 184.85m		2.40m							
	184.85 to 185.50m		0.65m							
	185.50 to 186.25m		0.75m							
	186.25 to 187.15m		0.90m							
	187.15 to 190.20m		3.05m							
	190.20 to 192.00m		1.80m							
	192.00 to 193.40m		1.40m							
	193.40 to 194.00m		0.60m							
	194.00 to 195.05m		1.05m							
	195.05 to 196.30m		1.25m							
	TOTAL		15.25							
	(NOTE: hole ends at about 680' with 1/2 rod out of hole therefore error somewhere in core. Driller says end of hole is actually about 682-683')									

