D88-71

BROHM MINING CORPORATION
DIAMOND DRILL HOLE LOG

SURVEY

Footage	Bearing	Inclination

Property	Gilt Edge	Hole No.	DRR-71
Location	Twin to R87-329	Bearing at Collar	—
		Inclination at Collar	-90°
Coord. - Collar N	46649.28		
E	26424.35	Length	195.3'
Elev. - Collar	5425.70	Core Size	6"
Date started	11-19-88		
Completed	12/23/88	Logged by	S. Ringhoffer

LITHOLOGY, ALTERATION, MISC.	FT.	FRACTURE GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	ANALYTICAL 6 in. Rod	4 in. Rod	Skeleton footage	ASSAY Au	Fractures Surface	Mineralization
(Rotary drilled to 34')	0	Rotary										
	10											
	20											
	30											
(34-57') Two short runs (34-49') Lt. & dark gray Sdh. zones of altered calcareous flat pebble conglomerate clasts ~ 1cm to 7cm. Some zones of light brecciation near contact at 49'. Clasts slightly calcareous.	40		(34-57') Total FeS2 ~1%	34-39.5	5.5	5.5		4.0				
			(34-49') Overall FeS2 ~1%. Flat pebble clasts slightly calcareous									
(49-57.5') Lt gray to gray grn. m.gr. siliceous meta-L.S.? Carbonate in "blobs" at lt. green, calc-silicate mineral amins (Actinolite & Tremolite?) dissem in matrix.	50	75	(49-57.5') Lt. green mineral (Tremolite?, Actinolite?) dissem w/ FeS2. Total FeS2 ~ 4% trace internal	39.5-52	12.5	11.8		7.2			PS54	FeOx FeS2
(34-57') Most fracts ⊥ to C.A. and follow bedding of Sdh. Most appear drilling induced.												

HOLE No. D88-71

BROHM MINING CORPORTION
DIAMOND DRILL HOLE LOG (Cont.)

LITHOLOGY, ALTERATION, MISC.	FT.	FRACTURE GRAPHIC LOG	MINERALIZATION	RECOVERY: Run	RECOVERY: Run length	RECOVERY: Core	ANALYTICAL: 6 in. Rod	ANALYTICAL: 4 in. Rod	ANALYTICAL: Skeleton footage	ANALYTICAL: ASSAY Au	ANALYTICAL: Fractures Surface	ANALYTICAL: Mineralization
(57.5-78') Variegated, LtGrn, Grn, & dk. brown Shale - harn+bis. Calcareous, + lat bedded clasts. in bedding around, at top & decreasing near bottom of interval. Clasts are round to subround and have "bleached", altered halos & lenses extending into bedding.	55		(57.5-78') Total FeSz ~1%, diss'm.	52-71.5	19.5	18.2		15.6				
(78-83') Same lt. grn. gray, gray, silicified, mod. brecciated - L.S. as noted earlier. Contacts are NOT well defined as Cdh seems to grade into meta-L.S. w/ tracts becoming more abund in meta L.S. Qvlets are very small and not penetrative.	70		(83-98') Total FeSz (2%. mostly in "blebs" tracts / & bx. matrix.	71.5-82	10.5	9.8		5.4				
(83-89') Dk. brown to purple Cdh w/ well defined ~7cm brecciated dike underlying alaln C.A. from contact zone w/ meta-L.S. to ~89'. Dike walls where well defined, show "bleaching" at Cdh, bleaching of bx clasts. FeSz in matrix material. ~1%.	80			82-98	16.0	16.0		11.8				
(89-98') Mod. fract Cdh. Micro-units of FeSz under concordant & across bedding. Unit walls somewhat "bleached" for varying distances away from tracts.	90		(98-102') Total FeSz ~5%.									
(98-102') F.Gr. mottled light gray. Thin sill. Relt hblend / phyr. Top contact brecciated w/ intrusion filled tracts & bx zones. Same on bottom contact.	100	F		98-110.5	12.5	11.4		6.0				
(102-110.5') dk grn & dk brown. Bedding fract w/ Cdh. FeSz healed tracts. Small qvlets feed from main sill and underlying alaln C.A. (110.5-115') Thin sill / dike, same / thin as / previous zone.	110	F	(102-110.5') Total FeSz ~5% in units & diss'm.	110.5-115	4.5	4.5		4.5				
	120	Rotary										

HOLE No. D88-71

BROHM MINING CORPORTION
DIAMOND DRILL HOLE LOG (Cont.)

LITHOLOGY, ALTERATION, MISC.	FT.	FRACTURE GRAPHIC LOG	MINERALIZATION	RECOVERY: Run	RECOVERY: Run length	RECOVERY: Core	ANALYTICAL: 6 in. Rod	ANALYTICAL: 4 in. Rod	ANALYTICAL: Skeleton footage	ANALYTICAL: ASSAY Au	ANALYTICAL: Fractures Surface	ANALYTICAL: Mineralization
	125	Rotary drilled										
	130											
	140											
	150											
(154-171.2) Lightly fract. Cdh. Heading ~ ⊥ to C.A. & all fracts appear drilling induced.			(154-171.2) Total FeS2 ~ 4% in contrasting & x-cutting fracs & units.	154-171.2								
	160				17.2	17.0		16.8				
		Cdh										
	170	Contact										
(171.2-175) Cream colored Cdq. Having micro-fracts w/ FeS2 in units & dissm.		Cdq	Total FeS2 ~ 3% in units & dissm.	171.2-175	3.8	3.7		3.7				
(175-195.3) Cream to med. gray, lightly fract Cdq. FeS2 healed micro fracts. Heading ⊥ to C.A. All fracts appear drilling induced.			(175-195.3) Total FeS2 < 1%	175-183.5	8.5	8.5		8.5				
	180			183.5-195.3								
	190				11.8	11.5		11.5				

TD 195.3'

Bondar-Clegg, Inc.
12980 West Cedar Dr.
Lakewood, Colorado 80228
(303) 989-1404

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Geochemical Lab Report

BROHM MINING CORP.
MR. JIM BARRON
P.O. BOX 485
DEADWOOD, SD
57732

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Bondar-Clegg, Inc.
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(303) 989-1404

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Geochemical Lab Report

REPORT: 499-0271 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 30-MAR-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	30	0.02 OPT		
2	Au	Gold	30	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	30	2 -150	30	Assay Prep	30

REPORT COPIES TO: MR. JIM BARRON
MR. JIM BARRON

INVOICE TO: MR. JIM BARRON

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Geochemical Lab Report

REPORT: 499-0271

PROJECT: NONE LISTED PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Au OPT
D2 D88-71-36.7-37.9		<0.02	0.005
D2 D88-71-41.2-42		<0.02	<0.002
D2 D88-71-44.8-45.8		<0.02	<0.002
D2 D88-71-48.1-49		<0.02	<0.002
D2 D88-71-52-53.3		<0.02	0.003
D2 D88-71-55.6-56.5		<0.02	<0.002
D2 D88-71-59.1-60		<0.02	0.007
D2 D88-71-63.3-64.3		<0.02	<0.002
D2 D88-71-66.6-67.5		<0.02	<0.002
D2 D88-71-70-71.5		<0.02	<0.002
D2 D88-71-74.5-75.2		<0.02	0.003
D2 D88-71-77.5-78.6		<0.02	<0.002
D2 D88-71-82-82.9		<0.02	<0.002
D2 D88-71-86.4-87.1		<0.02	<0.002
D2 D88-71-89.2-90.1		<0.02	0.004
D2 D88-71-92.3-93.4		<0.02	<0.002
D2 D88-71-96.3-97.2		<0.02	<0.002
D2 D88-71-99.6-100.4		<0.02	<0.002
D2 D88-71-103.5-104.4		<0.02	<0.002
D2 D88-71-108-109.5		<0.02	<0.002
D2 D88-71-111.6-112.4		<0.02	0.005
D2 D88-71-114.4-115		<0.02	<0.002
D2 D88-71-157.2-157.9		<0.02	0.011
D2 D88-71-160.5-161.2		<0.02	0.025
D2 D88-71-163.9-164		0.03	0.035
D2 D88-71-167.8-168.5		<0.02	0.098
D2 D88-71-172-172.6		0.06	0.025
D2 D88-71-175-175.8		<0.02	0.019
D2 D88-71-179.4-180		<0.02	0.017
D2 D88-71-182.8-183.3		0.04	0.029

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Invoice : 13951, Page 1

BROHM MINING CORP.
MR. JIM BARRON
P.O. BOX 485
DEADWOOD, SD
57732

Date : 30-MAR-89

Report No: 499-0271
Project : NONE LISTED
Reference: NONE LISTED

30 Analyses of Au/Ag Assay Gold Silver	at $ 8.25	$ 247.50	$ 247.50
Sample Preparation			
30 Samples of Assay Prep	at $ 3.00	$ 90.00	
Subtotal		$ 90.00	$ 90.00
Miscellaneous Charges			
4% S.D. STATE SALES TAX		$ 2.40	
2% DEADWOOD CITY SALES TAX		$ 1.20	
Subtotal		$ 3.60	$ 3.60
Invoice Total:			$ 341.10 U.S.

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12980 West Cedar Dr.
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Geochemical Lab Report

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MR. JIM BARRON
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Geochemical Lab Report

REPORT: 499-0272 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 3-APR-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	3	0.02 OPT		
2	Au	Gold	3	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	3	2 -150	3	Assay Prep	3

REPORT COPIES TO: MR. JIM BARRON
MR. JIM BARRON

INVOICE TO: MR. JIM BARRON

Bondar-Clegg, Inc.
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Lakewood, Colorado 80228
(303) 989-1404

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Geochemical Lab Report

REPORT: 499-0272

PROJECT: NONE LISTED PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Au OPT
D2 D88-71-186.3-187.1		<0.02	0.002
D2 D88-71-189.7-190.6		<0.02	0.009
D2 D88-71-193.4-195.3		<0.02	0.003

BROHM MINING CO.
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MAR - 4 1990

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APR - 6 1989
BROHM MINING CO.

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12980 West Cedar Dr.
Lakewood, Colorado 80228
(303) 989-1404

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Geochemical Lab Report

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MR. JIM BARRON
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DEADWOOD, SD
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Geochemical Lab Report

REPORT: 499-0271 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 30-MAR-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	30	0.02 OPT		
2	Au	Gold	30	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	30	2 -150	30	Assay Prep	30

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Geochemical Lab Report

REPORT: 499-0271

PROJECT: NONE LISTED

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D2 D88-71-41.2-42		<0.02	<0.002	
D2 D88-71-44.8-45.8		<0.02	<0.002	
D2 D88-71-48.1-49		<0.02	<0.002	
D2 D88-71-52-53.3		<0.02	0.003	
D2 D88-71-55.6-56.5		<0.02	<0.002	
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D2 D88-71-63.3-64.3		<0.02	<0.002	
D2 D88-71-66.6-67.5		<0.02	<0.002	
D2 D88-71-70-71.5		<0.02	<0.002	
D2 D88-71-74.5-75.2		<0.02	0.003	
D2 D88-71-77.5-78.6		<0.02	<0.002	
D2 D88-71-82-82.9		<0.02	<0.002	
D2 D88-71-86.4-87.1		<0.02	<0.002	
D2 D88-71-89.2-90.1		<0.02	0.004	
D2 D88-71-92.3-93.4		<0.02	<0.002	
D2 D88-71-96.3-97.2		<0.02	<0.002	
D2 D88-71-99.6-100.4		<0.02	<0.002	
D2 D88-71-103.5-104.4		<0.02	<0.002	
D2 D88-71-108-109.5		<0.02	<0.002	
D2 D88-71-111.6-112.4		<0.02	0.005	
D2 D88-71-114.4-115		<0.02	<0.002	
D2 D88-71-157.2-157.9		<0.02	0.011	
D2 D88-71-160.5-161.2		<0.02	0.025	—
D2 D88-71-163.9-164		0.03	0.035	—
D2 D88-71-167.8-168.5		<0.02	0.098	—
D2 D88-71-172-172.6		0.06	0.025	—
D2 D88-71-175-175.8		<0.02	0.019	
D2 D88-71-179.4-180		<0.02	0.017	
D2 D88-71-182.8-183.3		0.04	0.029	—

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BROHM MINING CO.

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Geochemical Lab Report

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Geochemical Lab Report

REPORT: 499-0272 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 3-APR-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	3	0.02 OPT		
2	Au	Gold	3	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	3	2 -150	3	Assay Prep	3

REPORT COPIES TO: MR. JIM BARRON
MR. JIM BARRON

INVOICE TO: MR. JIM BARRON

Bondar-Clegg, Inc.
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Geochemical Lab Report

REPORT: 499-0272

PROJECT: NONE LISTED PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Au OPT
D2 D88-71-186.3-187.1		<0.02	0.002
D2 D88-71-189.7-190.6		<0.02	0.009
D2 D88-71-193.4-195.3		<0.02	0.003

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(303) 989-1404

Invoice : 13973, Page 1

BROHM MINING CORP.
MR. JIM BARRON
P.O. BOX 485
DEADWOOD, SD
57732

Date : 3-APR-89

Report No: 499-0272
Project : NONE LISTED
Reference: NONE LISTED

3 Analyses of Au/Ag Assay Gold Silver	at $ 8.25	$ 24.75	$ 24.75
Sample Preparation			
3 Samples of Assay Prep	at $ 3.00	$ 9.00	
Subtotal		$ 9.00	$ 9.00
Miscellaneous Charges			
4% S.D. STATE SALES TAX		$ 0.24	
2% DEADWOOD CITY SALES TAX		$ 0.12	
Subtotal		$ 0.36	$ 0.36
Invoice Total:			$ 34.11 U.S.

10

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ACCOUNTS DUE WHEN RENDERED

DATE 12-20/12-21-88 **Luisier Well Drilling, Inc.** **DRILLER** Kelly

HOLE NO. D88-71 **HELPER** Jim start at 8:00 PM

BIT SIZE 6" core **SAMPLER** _____

12

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		10:00	
C	156'	10:00	
171.2'	~~172'~~	12:49	end ~~end~~ run
R	~~171.2~~ 171.2'	1:39	start run
	175'	230	end run
C	175'	3:10	start run
		11:15	

DATE 12-21-88 **Luisier Well Drilling, Inc.** DRILLER Rich

HOLE NO. D88-21 HELPER Ben

BIT SIZE 6" core SAMPLER Bob

17.8 Rick ~~+ 2.5 hrs~~

12 Bob 12 hrs

QUICK GEL	QUICK TROL	QUICK FOAM
	TEX 153	

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	start shift
C	180			
	189			end run
			11:30	go for water
			12:30	return
			1:00	pull rods
			1:15	6' foot stick up in hole
				drill rig leaning up
				get mechanic
	~~189~~	189	5:00	start coring
		195	7:45	end run pull rods
			8:00	empty barrel pick up
				equip
			11:15	End shift

15' core
1 hour water