BED-2 Quick LOG 7/17/89 R.J.M.

0-5 Qal / Qcl

5-25 Dk gry fissle shale

25-30 light grn gry porphyry

30-65 light to med gray to gray brown quartz Ss.
weakly calcareous

65-125 Med to Dk greenish gray porphyry
hornblende and/or pyroxene trachyte

125-250 Light reddish brown to gray Sandstone
(as above 30-65) A few shaley partings
in bottom 50' of interval

250-270 Interbedded green gray shale + sandstone.

270-280 Med to Dk green-gray porphyry

280-290 as between 250-270

290-300 as between 270-280

300-335 as between 250-270

335-340 as between 270-280

340-350 as between 250-270

350-360 as between 270-280

360-400 as between 250-270

BED-2 Quick LOG 7/17/89 R.J.M.

0-5 Qal/Qcl

5-25 Dk gry fissle shale

25-30 light grn gry porphyry

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(as above 30-65) A few shaley partings
in bottom 50' of interval

250-270 Interbedded green gray shale + sandstone.

270-280 Med to Dk green-gray porphyry

280-290 as between 250-270

290-300 as between 270-280

300-335 as between 250-270

335-340 as between 270-280

340-350 as between 250-270

350-360 as between 270-280

360-400 as between 250-270

Chris - BROHM

N J S ENGINEERING

Consulting Engineers

Box 226
348 E. Colorado Blvd.
Spearfish, SD 57783
(605) 642-4772

LETTER OF TRANSMITTAL

DATE JAN 22, 1988	JOB NO. 1620
ATTENTION FRANK HAGAR	
RE: MONITOR WELL COORDINATES + ELEVATIONS,	

TO ENECOTECH, INC.
TRINITY PLACE, SUITE 700
1801 BROADWAY
DENVER, CO

GENTLEMEN:

WE ARE SENDING YOU ☒ Attached ☐ Under seperate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	REV. NO.	DESCRIPTION
1	1/4/88		COORD'S + ELEV'S FOR MONITOR WELLS (TRANSMITTED PREVIOUSLY)
1	1/22/88		" " " " "
			BOTH ARE ON GILT EDGE MINE COORD. SYSTEM.

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval

☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution

☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO GARY CURTISS, DOUG STEWART, CARL SOWARD SIGNED: Jim Walker

#1620
Monitor Wells
1/4/88

POINT	DESCRIPTION / COMMENTS	NORTHING	EASTING
LIST			
1616	"BED 11" ELEV. 5198.4	43130.0000	26861.3000
1617	"BES 11" ELEV. 5199.0	43125.5000	26847.6000
1618	"BES 17" ELEV. 5127.6	43739.7724	28188.3231
1619	"BES 14" ELEV. 4912.8	42892.3666	31945.7033
1620	"BED 18" ELEV. 5436.7	47457.8774	28101.1158
1621	TIMBERED SHAFT - ELEV. 5410	47236.8201	28116.7859
1622	"BED 17" ELEV. 5484.0	49353.4383	27650.3366
1623	"BES 15" ELEV. 4853.1*	44573.4640	33681.6127
1624	"BED 15" ELEV. 4848.9*	44575.5235	33805.6124
1625	"BES 16" ELEV. 4807.5*	47089.2753	34727.9240
1626	"BED 16" ELEV. 4807.6*	47085.0538	34734.0708
1627	"BED 19" ELEV. 5369.4	45565.1707	30511.9395

NOTES:

1. ELEVATIONS ARE AT TOP OF CONCRETE COLLAR AS REQUESTED BY KEN BEISER.
2. * INDICATES ELEVATIONS AND COORDINATES REFERENCED TO USGS STATION "24 MC 1952".

ENECOTECH MONITOR WELL LOCATIONS 1/5/88 TO 1/22/88 JOB #1620
(GILT EDGE MINE COORD. SYSTEM)

POINT	DESCRIPTION / COMMENTS	NORTHING	EASTING
LIST			
1628	"BED 07" ELEV. 5574.1	48366.3958	25465.3115
1629	"BES 04" ELEV. 5387.1	50620.9443	24585.7486
1630	"BED 04" ELEV. 5387.5	50613.0239	24585.7643
1631	"BED 05" ELEV. 5394.5	49040.1612	22119.3472
1632	"BED 20" ELEV. 5511.2	45117.2617	21624.4973
1633	"BES 20" ELEV. 5510.7	45130.3826	21627.3416
1634	"BES 08" ELEV. 5524.8	46946.0878	24780.0559
1635	"BED 08" ELEV. 5525.1	46950.6348	24774.7014
1636	"BED 10" ELEV. 5385.7	41805.0702	25793.1864
1637	"BES 10" ELEV. 5370.8	41704.4165	25703.4540
1638	"BED 14" ELEV.	42690.3881	31685.8896
1639	"BES 02" ELEV. 4934.7	51940.7841	33048.5953
1640	"BED 02" ELEV. 4935.6	51857.6202	32993.4558
1641	"BES 01" ELEV. 4714.1	55547.5728	36675.2164
1642	"BED 01" ELEV.	55514.9298	36615.0739

NOTES:

1. ELEVATIONS ARE AT TOP OF CONCRETE COLLAR AS REQUESTED BY KEN BEISER.
2. CONCRETE COLLARS FOR "BED 14" AND "BED 01" ARE NOT COMPLETED YET - ELEVATIONS FOR THESE WILL FOLLOW.

P R E L I M I N A R Y D A T A

Subject to Review

December 15, 1987

E N E C O T E C H

01

WELL ID BED-02

Location: NW/4 of SW 1/4 sec. 33 T5N R4E, Lawrence Co., S.D.
In Lost Gulch approx 4.5 miles from hwy 14A, just above major stream fork; upstream from old homesteader-miner cabins, USFS surface

N _____ E _____

Elevation: ± 4940 ft above SL (2.7 ft stick up) ± 4943 elev TOC

Well Total Depth: 401'

Well Inside Diameter: 4.5"

Static Water Level	Date	Measured By

(Please use PENCIL on this form) **WELL STATUS REPORT** 02

Site Identification: BED O-

Location: 1/4 Sec NW 1/4 SW 1/4 Sec 33 T 5N R 4E

Surface Rights: U.S.F.S. Road Conditions: 14A TO LOST GULCH

Mineral Rights: WARREN & JESSE MANN

ITEM	APPROVAL Yes	No	N/A	Date	Accdg To/By (Initials)	COMMENTS
Notification of Intent						
ENECOTECH	X					
MINPROC LAND OFFICE		X				
BROHM	X					
USFS		X				
PRIVATE OWNER	X			11/10	KB/JD	In Hand 11/10
ARCHEOLOGICAL		X				
Site Access						
Dozer Needed		X				
PO Issued			X			
Tree Cutting		X				
Owner Permission		X				
Turnaround		X				
Drill Pad Construction						
Staked	X			11/09		
Cleared -- Trees			X			
Cleared -- Brush			X			
Topsoil Salvaged			X			
Settle Pit	X				RC	2 pits - 1 hand 1 backhoe
Completed Well	X			12-13	KB	
Reclamation Requirements						
Debris Clean-up	X					
Waste Disposal		X				
Mud		X				
Cement		X				
Cuttings		X				
Grading		X				
Topsoil Replacement		X				
Revegetation		X				
Notification of Completion		X				

ADDITIONAL COMMENTS (Initial): Backhoe operator (B. Reif) failed to ARRIVE before and during beginning of drilling. Requested on site 3 times. Field rep. in charge hand dug shallow pits until 3:30 PM on 12-11-87 (he was on site for 1/2 hr).

Copies Forwarded to: FRANK HAGAR
JEFF HOLCOMB

Lewis 0-18' - Cable Tool

Contractor: Taylor 18'-400'
Coordinates: N. 51857.6202 E 32993.4558
Project: Gilt Edge Sulfide
Hole No.: BED-02

Drill Type: Portadrill - air hammer
Casing Depth: 401' PVC (19' surf. casing)
State: SD.
Sheet 1 of 12

Hole Size: 8"
Bearing: ____ Inclination: ____
Date Started: 12-10-87
Property: USFS - Mann

Collar Elev.: 4935.6
Final Depth: 401'
Date Completed: 12-12-87
Hole Surveyed: ____

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE
						Qal	brn fg - cg. sand & gravel	no visible sulfides	
5						Qal	brn - gray sandy clay; sand & gravel		
						shale	dk gry, mod hd, poor fissility, blocky cleavage, sl. contact metamorph.		
10						shale	same as above,		
15						shale	same as above		
20						shale	dk gry, mod. fissile, sl. contact metam.		
25						Limestone	Lt. grn., mod. hd, granular, poss. soly		
30						Sandstone	Lt. gray - massive vfg to silt size, well indur, silica cement, abun Fe ox stain - prob. frac. zone	driller said that ~ 1 gal/min or less water in at about 30' - probable fracture zone	
35									

DRILL CUTTING LOG

Logged by: G. Curtis - ENVIROTECH

03

Contractor: Taylor
Drill Type: Portadrill - air hammer
Hole Size: 8"
Collar Elev.:
Coordinates:
Casing Depth: 400'
Bearing: Inclination:
Final Depth: 400'
Project: Gilt Edge - Sulfide
State: S.D.
Date Started: 12-10-87
Date Completed:
Hole No.: BED-02
Sheet 2 of 12
Property: USFS - Mann
Hole Surveyed:

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE
						Sandstone	Lt. gry, massive, vfg, well indur. silica cement, sub rd. grains ~~40 ft~~	no sign sulfides	
40						Sandstone	gry, vfg, silica cement, sub rd. grains		
45						Sandstone	same as above		
50						Siltstone	dk gry, sl. sdy, sl. carbon.,		
55						Siltstone	same as above, some Fe ox stain		
60						Sandstone	gry, vfg, calcar., may be a sdy limestone		
65						Porphyry	poss. hornblende porphyry, grn-gry, 6-8% mafics, no visible sulfides		
70									

DRILL CUTTING LOG

Logged by: M. Curtis

Contractor Taylor | Coordinates | Project Gilt Edge - Sulfide | Hole No. BED-02

Drill Type Portadrill - air hammer | Casing Depth 400' | State S.D | Sheet 3 of 12

Hole Size 8" | Bearing | Inclination | Date Started 12-10-87 | Property USFS - Monn

Collar Elev. | Final Depth 400' | Date Completed | Hole Surveyed

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlit, Replacement)	TYPE
70						Porphyry	(poss hornblende porph.) gray. gray to dk. gray gray, 8-10% mafics, no sign sulfide	no sign	sulfides
75						Porphyry	same as above		
80						Porphyry	same as above		
85						Porphyry	same as above		
90						Porphyry	same as above		
95						Porphyry	same as above		
100						Porphyry	same as above		
105									

DRILL CUTTING LOG

Logged by: G. Curtis

Contractor Taylor | Coordinates | Project Gilt Edge - sulfide | Hole No. BED-02

Drill Type Portadrill | Casing Depth 400' | State S.D | Sheet 4 of 12

Hole Size 8" | Bearing | Inclination | Date Started 12-10-87 | Property USFS - Mann

Collar Elev. | Final Depth 400' | Date Completed | Hole Surveyed

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinfill, Replacement)	TYPE
105						Porphyry	same as above	no sign sulfides	
110						Porphyry	same as above		
115						Porphyry	same as above		
120						Porphyry	same as above		
125						Siltstone?	gry, sl. metam., contact zone w/ porphyry, no sign FeS2	no sign sulfides	
130						Limestone	clastic-grainstone (poss. solu.), gry, no sign sulfides		
135						Limestone	same as above		
140									

DRILL CUTTING LOG

Logged by: [illegible]

Contractor: Taylor
Drill Type: Portadrill - air hammer
Hole Size: 8"
Collar Elev.:
Coordinates:
Casing Depth: 400'
Bearing: Inclination:
Final Depth: 400'
Project: Gilt Edge - sulfide
State: S.D.
Date Started: 12-10-87
Date Completed:
Hole No.: BED-02
Sheet 5 of 12
Property: USFS - Mann
Hole Surveyed:

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinfill, Replacement)	TYPE
140						Limestone	clastic, gry, no sign of sulfides	no sign sulfide	
145						Limestone	as above	no sign sulfide	
150						Sandstone	lt. pinkish grey, fg, sub rd to sub angl, silica cement (most grains sub. rd.)	1-2% sulfide	FeS_2
155						Sandstone	same as above also: 50% lt. grn, vfg, SS, silica cement	no visible sulfide	
160						Sandstone	lt. pink. gry to grn gry, fg, sub angular, silica cement	no visible sulfide	
165						Sandstone	lt. pnk gry to grn-gry, fg to vfg, silica cement	< 1% sulfide -	FeS_2
170						Sandstone	as above, small ant. Fe ox stain	no visible sulfide	
175									

DRILL CUTTING LOG

Logged by: [illegible]

Contractor: Taylor | Coordinates: | Project: Gilt Edge - Sulfide | Hole No.: BED-02

Drill Type: Portadrill | Casing Depth: | State: S.D. | Sheet: 6 of 12

Hole Size: 8" | Bearing: | Inclination: | Date Started: 12-10-87 | Property: USFS - Mcna

Collar Elev.: | Final Depth: 400' | Date Completed: | Hole Surveyed:

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinfill, Replacement) / TYPE
175						Sandstone	Lt. gry to brn, calc to silica cement, f.g., sub rd., some Fe ox. stain	< 1% sulfide, dissem — FeS_2
180						Sandstone	Lt. gry, f.g., sub ang to sub rd, silica cement - some Fe ox stain	< 1% sulfide, dissem, FeS_2
							w/ 10% dk gry argil.? ss., vfg., silica cement	no sulfides visible
185						Sandstone	gry, vfg, rd, silica cement	no visible sulfide
190						Sandstone	as above	
195						Sandstone	as above	
200						Sandstone	gry, gry-gry, pink-gry, vfg w/ 10-15% dk grains, silica cement,	no visible sulfides
205						Sandstone	as above	
210								

DRILL CUTTING LOG

Logged by: A. Curtis

Contractor: Taylor | Coordinates: | Project: Gilt Edge - sulfide | Hole No. BED-02

Drill Type: Portadrill | Casing Depth: 400' | State: S.D. | Sheet 7 of 12

Hole Size: 8" | Bearing: | Inclination: | Date Started: 12-10-87 | Property: USFS - Mann

Collar Elev.: | Final Depth: 400' | Date Completed: | Hole Surveyed:

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE
210						Sandstone	same as above	no visible sulfide	
215						Sandstone	same as above, mostly grn-gray		
220						Sandstone	calcareous, gray, fg., (poss. sdy limste) some red-brn sdy? limestone		
225						Sandstone	red-brn, calc. cement (vy. calc), f.g., alteration?, Fe ox stained		
230						Sandstone	as above		
235						Sandstone	gray, vfg 2% dk. grains, silica cement, sl. calc., some Fe ox. stain		
240						Sandstone	as above		
245									

DRILL CUTTING LOG

Logged by: H. Curtis

Contractor: Taylor
Drill Type: Portadrill
Hole Size: 8"
Collar Elev.:
Coordinates:
Casing Depth: 400'
Bearing: Inclination:
Final Depth: 400'
Project: Gilt Edge - sulfide
State: S.D.
Date Started: 12-10-87
Date Completed:
Hole No.: BED-02
Sheet 8 of 12
Property: USFS - Mann
Hole Surveyed:

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE
245						Sandstone	reddish-brn, fg, sub ang. to sub rd, calc. cement, altered, Fe ox stain	no visible sulfide	
						Limestone	minor lt. gry - Fe ox stained.		
250						Sandstone	Lt. gra-grn, vfg, sl. calc., hd.		
255						Siltstone	grn-gra, hd, massive, some Fe ox stain		
260						Siltstone & Sandstone	grn gry, calc. hd grn gry, vfg, calc. hd.	trace sulfide	
265						Sandstone	grn gry, vfg, hd, calc. cement	trace sulfide	
270						Sandstone	gry-grn to grn, vfg.-m.g., calc. 5% dark minerals	no visible sulfide	
275						Sandstone	as above	trace sulfide -	
280									

DRILL CUTTING LOG

Logged by: H. Curtis

Contractor: Taylor | Coordinates: | Project: Bitt Edge - Suffok | Hole No.: BED-02

Drill Type: Portadrill | Casing Depth: 400' | State: S.D. | Sheet 9 of 12

Hole Size: 8" | Bearing: | Inclination: | Date Started: 12-10-87 | Property: USFS - Mann

Collar Elev.: | Final Depth: 400' | Date Completed: | Hole Surveyed:

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE
280						Sandstone	lt. brn gry to grn gry, vfg, hd, silica 'cement'	no visible sulfide	
285						Sandstone	as above - 80-90%		
						Shale	silty, lt. grn-gry, poorly fissile		
290						Porphyry?	dk. gry-green, vfg groundmass w/ 3-4% mafics sl. calcar.?	trace sulfide	
295						Porphyry?	some as above, sl. calcar?	no trace sulfides	
300						Limestone?	dk. gry-grn, clastic vfg, 1-2% dk. grains, slight banding or bedding in some larger fragments		
						Shale	dk gry-grn, poor to mod. fissile, sl. calcar., silty looking		
305						Limestone and shale	as above		
310						Sandstone	dk gry-grn, vfg, very calc.		
315									

DRILL CUTTING LOG

Logged by: Gary Curtis

Contractor: Taylor | Coordinates: | Project: Gilt Edge - Sulfide | Hole No.: BED-02

Drill Type: Portadrill | Casing Depth: 400' | State: S.D. | Sheet 10 of 12

Hole Size: 8" | Bearing: | Inclination: | Date Started: 12-10-87 | Property: USFS - Mann

Collar Elev.: | Final Depth: 400' | Date Completed: | Hole Surveyed:

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement) / TYPE
315						Siltstone	Gry, Sdy, sl. calcar. w/ occas. veins of calcite (up to .5-.75 cm)	no visible sulfides
320						Siltstone, Sandstone, Shale	same as above; gry to grn-gry, vfg, calcareous; grn-gry, silty, poor fissility	no visible sulfides
325						Sandstone, Shale, Siltstone	Same as above; " " "; " " "	no visible sulfides
330						Sandstone	Gry to grn-gry, vfg, calcareous	no visible sulfides
335						Clastic limestone	dk grn-gry, wh. to lt. gry phenocrysts set in lt gry to dk grn-grn groundmass, 10-12% mafics(?) includ. slender laths	no significant - visible sulfide; hornblende
						Clastic limestone	Same as above (note - this resembles dk-grn-gry porphyry but is vy calcareous)	
340						Clas. limestone	as above, smaller vfg to f.g. grain size	no visible sulfides
345						Shale	dk, grn-gry, sl. contact metam., calcareous poorly fissile	
						Shale	dk grn-gry, non-calcar to calcareous possibly sl. silty	no visible sulfide
350								

DRILL CUTTING LOG

Glenn Curtiss

Contractor Taylor | Coordinates | Project Gilt Edge - Sulfide | Hole No. BED-02

Drill Type Portadrill - air hammer | Casing Depth 400' | State S.D. | Sheet 11 of 12

Hole Size 8" | Bearing | Inclination | Date Started 12-10-87 | Property USFS - Mann

Collar Elev. | Final Depth 400' | Date Completed | Hole Surveyed

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	ROCK TYPE	GEOLOGIC NOTES: DESCRIPTION (MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE)	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE
350						Sandstone	dk grn-gry, vfg, some freq. sl. calcar	no sulfides	
355									
						Sandstone?	dk grn-gry, vfg, abun mafics, sl. calcareous	no sulfides	
						Porphyry	Lt. gry, 2% mafics or less, mostly aphanitic, 2-3% sulfide	2-3% sulfides	FeS_2
360									
						Shale	grn-gry, feels silty, hard, thin poorly develop. fissile layers, non-calcar.	no visible sulfide	
						limestone	red-brn to brn, hard, massive to granular-clastic in appear.	no visible sulfides	
365						Shale & limestone	same as above	no visible sulfide	
370									
						Shale	dk grn-gry, sl. calcar to calcar, massive to poorly fissile, sl. silty feel, some zones show mod. fissility	no visible sulfide	
375									
						Shale	as above		
380						Shale	as above		
385									

DRILL CUTTING LOG

Logged by: Steve Curtis

Contractor: Taylor | Coordinates: | Project: Gilt Edge - sulfide | Hole No.: BED-02

Drill Type: Portadrill | Casing Depth: 400' | State: S.D. | Sheet 12 of 12

Hole Size: 8" | Bearing: | Inclination: | Date Started: 12-10-87 | Property: USFS - Mann

Collar Elev.: | Final Depth: 400' | Date Completed: | Hole Surveyed:

DISTANCE (feet)	GRAPHIC LOGS: ALTERATION (1 Weak, 2 Moderate, 3 Strong)	TOTAL SULFIDES (vol %)	ROCK TYPE & STRUCTURE	DOWN HOLE LOCATION: DISTANCE DOWN HOLE (feet)	ELEVATION	GEOLOGIC NOTES: ROCK TYPE	DESCRIPTION: MINERALOGY, ALTERATION, TEXTURES, GRAIN SIZE, FRAGMENT SIZE	MINERALIZATION: DISTRIBUTION (Massive, Disseminated, Veinlill, Replacement)	TYPE
385						Shale	dk gm-gray, sl. calcar to calcareous, poor to mod. fissility, sl. silty in spots,	no visible sulfides	
390						Shale	as above		
395						Shale	as above		
400							TD 401 FT 12-12-87		

DRILL CUTTING LOG

Logged by: Hans Curtis

BOREHOLE/WELL CONSTRUCTION LOG

04

.TE ID: BED-02 LOCATION ID: BED-02 FIELD REP: G. CURTISS / K. BRUSER

APPROX. SITE COORDINATES (FT.): N _____ E _____

GROUND ELEVATION (FT. MSL): _____ COMPLETION DATE: 12-12-87

BOREHOLE SUMMARY

DRILLER: TAYLOR – FRANK CONWAY

RIG TYPE: PORTADRILL TKT-1 AIRROTARY

BIT TYPE	HOLE DIA.* (in.)	END DEPTH● (ft.)	FLUID TYPE
BUTTON/AIR	8"	40	AIR/WATER
HAMMER			
CABLE TOOL	±10"	±20	—

CASING SUMMARY

CASING TYPE*	DESCRIPTION	DIA. (in.)	END✚ DEPTH (ft.)
STEEL	TEMPORARY SURF.	8"	20+
	PIPE		

* P–Protective S–Screen B–Blank O–Open N–None

✚ Depth from Top of Casing

CONSTRUCTION TIME LOG

ACTIVITY	START DATE	START TIME	END TIME	
DRILLING	12-10-87	1130	1700	
	12-11-87	0800	1700	
	12-12-87	0800	1330	
CASING	12-12	1300	1400	
FILTER PACK	12-12	1400	1500	
	12-13	0800	0930	
SEAL	12-13	0950	1000	
BACKFILL	12-13	1015	1050	
DEVELOPMENT	12-13	1100	1130	SWAB
	12-13	1200	1330	AIRLIFT
OTHER				

WELL CONSTRUCTION

TYPE CODE*	DESCRIPTION	END● DEPTH (ft.)
S	SDR 17 .020 THREAD PVC	395½
B	SUMP – SLIP CAP ON BOTT.	401
B	SDR 17 FLUSH JT THREAD PVC	315½
F	10-20 COLO SILICA	401
S	½" VOLCLAY BENT PELLETS	130
B	TYPE III CEMENT GROUT	126½
	CENTRALIZERS @ 40'	
	INTERVALS	

* B – Backfill S – Seal F – Filter Pack

● Depth from Ground Surface

WELL DEVELOPMENT

(40') SWABBED / AIR LIFTED w/ TREMIE AT 395'

(SWAB BROKE IN COLD WATER)

COMMENTS: STDBY 12-12-87 1530-1730

BECAUSE OF LACK OF SAND ON SITE

2.7' STICK-UP

NO SIGNIF. PRODUCING ZONES EVIDENT DURING DRILLING

05

WELL COMPLETION RECORD

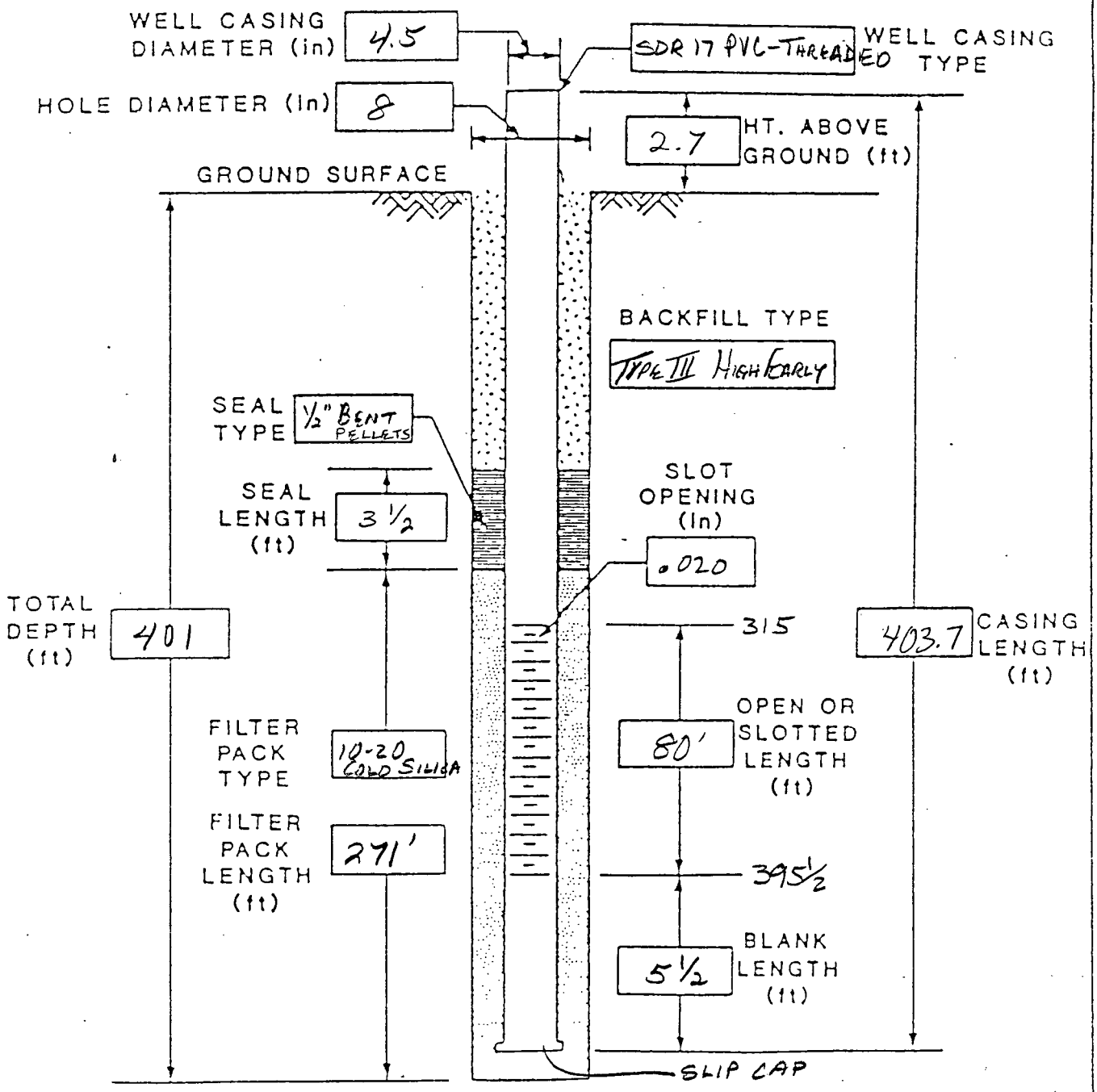
SITE ID: BED-02 LOCATION ID: BED-02 DATE INSTALLED: 12-13-87

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. ($IN^2/FT.$) _____

FORMATION OF COMPLETION: _____

FIELD REP.: G. CURTISS / K. BEISER DRILLER: TAYLOR - FRANK CONWAY



COMMENTS: WELL MAY BE DRY - POSSIBLE WATER @ 170' AND 235'
BUT DRYNESS IS REASON FOR LONG SAND PACK

WELL MAINTENANCE RECORD

06

Problem	Corrective Action Taken	Date	Specific Capacity (gpm/ft of drawdown)	
			Before	After
INITIAL DEVELOP	SWAB 1/2 HR @ 40'	12/13/87	?	?
" "	AIR LIFT (MAY BE WATER IN STORAGE OF FRAC. (FROM ~~Dad~~) BEFORE GROUTING WELL)	12/13/87	?	±2gpm
" "	AIR LIFT	12/13/87	±2gpm	

LAB. REPORT NO. _____

BONDAR-CLEGG INC.

12980 W. CEDAR DR., LAKEWOOD, CO. 80228 PHONE: 989-1404 TELEX: 45-693

SAMPLE SHIPMENT NOTICE

Please analyze by { special ☐ / normal ☒ } assay (%, ore grade) ☐ / geochemical (ppm, trace level) ☒ } methods, the enclosed { prepared ☐ / unprepared ☒ } samples

For types of sample use: R = rock or core D = soil S = stream sediment W = water V = vegetation X = standard
B = lake bottom sediment F = frost boil P = pulp C = concentrate panned

DC = DRILL CUTTINGS

SAMPLE TYPE	NUMBER OF SAMPLES	SAMPLE NUMBERS (SERIES)	ELEMENTS TO BE ANALYZED																				E spec	OTHERS
			Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th		
DC	41	BED-18 40-45 thru 100-105	Cu	Pb	Zn	Mo	X	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	X	As	Hg	Sn	Th	E spec	
		110-115 thru 115-120, 135-140	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
		thru 140-145-150, 155 thru	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
		155-160-165-170 thru 175-180	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
		185-190 thru 190-195	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
		205-210 thru 275-285	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
		300-305 (EOH)	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
			Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
	64	BED-16 0-5 thru 375-379	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
			Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
	77	BED-20 thru 395	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
			Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
	42	BED-100 thru 230	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
			Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	
			Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	

Date Shipped 1/12/88 Via Deadwood PREP Lab Prepaid ☐

Parcels in Shipment _____ Collect ☐

Comments: _____

OVERSIZE (COARSE REJECTS) WILL BE DISCARDED UNLESS CHECKED BELOW:

☐ STORE 60 DAYS — THEN RETURN C.O.D. ☐ STORE 60 DAYS — THEN DISCARD.

PULPS—All pulps are stored 1 year, then returned C.O.D.

Results and Invoices To Be Sent To:

Brohm Mining Co.
c/o Jim Barron
P.O. Box 485
Deadwood, SD 57732

☑ Results ☑
☑ Invoice ☐

Brohm Mining Co.
c/o Rod MacLeod
P.O. Box 485
Deadwood, SD 57732

☐ Results ☐
☐ Invoice ☐

Client Project Number _____

CLIENT'S COPY

BED 2

0-10 Qal
10-25 Edh
25-43 Tlp (ASH / ridge former)
43-65 Edh
65-128 Thtp
128-150 Edh
150-250 Sandstones. (Edh)
250-290 Edh
290-300 Thtp
300-335 Edh
335-340 Thtp
340-350 Edh
350-360 Thtp
360-400 Edh

0-5 OXIDE
5-175 SULFIDE
175-185 MIX
185-223 SULFIDE
223-250 MIX
250-400 SULFIDE

~~LOCATION N = 52300~~
~~E = 133305~~
~~ELEV = 4910~~

LAB. REPORT NO. _____

BONDAR-CLEGG INC.

12980 W. CEDAR DR., LAKEWOOD, CO. 80228 PHONE: 989-1404 TELEX: 45-693

SAMPLE SHIPMENT NOTICE

Please analyze by { special ☐ assay (%, ore grade) ☐ / normal ☑ geochemical (ppm, trace level) ☑ } methods, the enclosed { prepared ☐ / unprepared ☑ } samples

For types of sample use: R = rock or core D = soil S = stream sediment W = water V = vegetation X = standard
B = lake bottom sediment F = frost boil P = pulp C = concentrate panned DC = Dense concs

SAMPLE TYPE	NUMBER OF SAMPLES	SAMPLE NUMBERS (SERIES)	Cu	Pb	Zn	Mo	Ag	Cd	Ni	Co	Mn	Fe	Bi	V	U	W	F	Au	As	Hg	Sn	Th	E spec	OTHERS
DC	72	BED-07-0 thru 265 270					X											X						
		275-280 thru 360 365																						
	4	RES-20-0 thru 20																						
	4	BES-15-20																						
	6	RES-17 0-29																						
	5	BES-15-0-25																						
	6	BES-10-35																						
		~~BES-[illegible]~~																						
	42	~~BES-[illegible]~~ BES-[illegible]-20																						

Date Shipped 11/12/84 Via Deadwood PR.O'LAR Prepaid ☐

Parcels in Shipment Fee ~~ASSAYS~~ ASSAY Collect ☐

Comments: _____

OVERSIZE (COARSE REJECTS) WILL BE DISCARDED UNLESS CHECKED BELOW:

☐ STORE 60 DAYS — THEN RETURN C.O.D. ☐ STORE 60 DAYS — THEN DISCARD.

PULPS—All pulps are stored 1 year, then returned C.O.D.

Results and Invoices To Be Sent To:

Bhahn Mining Co
c/o Jim Green
P.O. Box 485 Deadwood
SD 57732

☐ Results ☐
☐ Invoice ☐

Bhahn Mining Co
c/o Rob Moreland
PO Box 485 Deadwood
SD 57732

☐ Results ☐
☐ Invoice ☐

Client Project Number _____

CLIENT'S COPY

LACANA MINING INC: DRILL LOG DRILL HOLE NO. RGE-33

PROPERTY GILT EDGE STATE S.D. CO. LAWRENCE QUAD DEADWOOD SOUTH

SEC T 4N R 4E CLAIM COORDINATES: (N) (S) 747,157 (E) (W) 1,126,911

CONTRACTOR LANG HELPER SAMPLER LOGGER

TYPE DRILLING REV. CIRC. TYPE DRILL TRACK MOUNTED COLLAR ELEVATION 5528 FT

BEARING INCLINATION VERTICAL TOTAL DEPTH 303' HOLE DIAMETER

CASING BOTTOM ELEVATION WATER LEVEL

SAMPLE DISPOSITION SUMMARY COST/HR COST/FT $8.00

SHEET 1 OF 5 DATES: START COMP.

TIME: START COMP.

MOVING TIME: START COMP

STANDBY TIME: START COMP

TOTAL HOURS DRILLED HOURS COST

BIT COST TOTAL COST

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Wash Rec. +12M	Clay%	$CaCO_3$ %	FeOx %	Vein Quartz	Silicifi-cation	Sulfide % PYRITE	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	Remarks:	
1	5			DRY		LT-GY BRN	MD OR BRN	65		TR	MOD			NIL	5' SOIL		.001	.002		TR	TR			5'	0'-5' SOIL + FILL
															SHALE	DEADWOOD FM €									
2	10			"		"	LT-MD OR BRN	75		"	LT-MOD			NIL			.010	.006		.015	.015			5'-42' TR PY ON FCT; 0'-4' LM+GEO ON FCT	5'-42' SHALE MD OR GRN TO DK GRN; FN GRN
3	15			"		"	" + GRN GY	70		"	MOD			TR			.004	.004		.005	TR				
4	20			"		"	"	70		"	MOD			"			.003	.006		TR	.01				
5	25			"		"	"	65		LT	LT-MOD			"			.004	.004		.005	TR				
6	30			"		"	"	60		LT	"			"			.001	.002		NF	NF				
7	35			"		"	"	70		"	"			"			.001	.002		TR	TR				
8	40			"		MD GRN-GY	DK GY	65		LT-MOD	LT			<1			.004	.002		.005	TR			40'-45' 1% PY ON FCT	
															42'									42'	42'
9	45			"		LT GRN GY	LT-MD GY	60		"	TR			1	HB DIO	TERT. INTRUS.	.002	.004		.01	.005			42'-46' TR PY IN HB DIO AS RARE DISSEM. REPL.	42'-46' HB DIO LT GRN, FN GRN; 15% HB PSEUDOMORPHS
															46'									46' HB	46'
10	50			"		"	LT-MD GY + DK BRN	50		TR-LT	TR			<1	SHALE	DEADWOOD FM €	.002	.004		.005	TR			46'-57' <1% PY ON FCT	46'-57' SHALE DK GRN W/ MINOR LT GRN

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 2 of 5
Drill Hole # RGE-33

no.	Foot up	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. %	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide % PYRITE	Rock Type	Geology	Assayed	Au	Ag	Au (SHMC OPT)	Ag (SHMC OPT)	Au	Ag	REMARKS:	
11	55			Dry		LT GRN GY	LT-MD GY+DK BRN	50		LT	TR			1	SHALE	DEADWOOD FM €	.002	.004		NF	NF			<1% PY	SHALE AS AT 46' MINOR EPI ON FCT
															57'										57'
12	60			"		"	"	50		"	"			1	HB DIO	TERT. INTRUS.	.008	.012		.005	.005			57'-82' <1% PY ON FCT W/ MIN. DISSEM PY REPL. HB	57'-82' HB DIO FN GRN (LT GY TO LT GRN TO MED GRN) NO FRESH HB; HB → CHL + MAG.
13	65			"		"	MD-DK GRN GY	40		"	"			2-3			.002	.004		NF	NF			60'-65' 2-3% PY AS DISCRETE BLEBS + ON FCT; MIN. PY DISSEM	
14	70			"		"	"	40		"	"			<1			.002	.004		TR	TR				70'-75' 50% CHIPS SHALE DK GRN; FN GRN; POSS. XENOLITH
15	75			"		"	MD GRN GY	45		"	Nil			<1			.012	.008		.015	.01				
16	80			"		"	"	40		"	LT			1			.001	.002		NF	TR				
															82'										82'
17	85			"		"	LT GY + DK BRN	35		"	TR			<1	SHALE	DEADWOOD FM €	.008	.012		.005	TR			82'-110' <1% PY ON FCT; SOME DISS. PY REPL HB IN HB DIO SILLS; PY PICKS UP SLIGHTLY AT HB DIO CNT.	82'-110' SHALE LT GY GRN W/ DK GRN
18	90			"		"	MD-DK GRN GY	45		"	"			1			.004	.006		.01	.005				
19	95			"		"	"	40		"	Nil			<1	95' SHALE W/ HB DIO SILLS		.007	.004		.01	.01				95'-110' SHALE W/ NUMEROUS NARROW HB DIO SILLS WITH SHALE INTERVALS IN BETWEEN; CAN'T DEFINE CONTACTS W/IN 5' INTERVALS
20	100			"		"	LT-MD GRN GY	45		"	"			1			.004	.004		.005	TR				
21	105			"		"	"	45		"	"			<1			.004	.004		.005	.005				
22	110			"		"	"	45		"	"			1-2	110' HB DIO	TERT. INTRUS.	.001	.002		TR	NF			110' 110'-116' 2-3% PY DISSEM W/ MINOR PY ON FCT	110'-116' HB DIO LT GY HB → CHL + EPI W/ SOME PY AFT HB
23	115			"		"	"	40		"	TR			2-3			.001	.002		TR	NF				
															116' SHALE									116'	116' 116'-126' SHALE

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 3 of 5
Drill Hole # RGE-33

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. +12M	Clay³	$CaCO_3$³	FeOx³	Vein Quartz	Silicification	Sulfide % PYRITE	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
24	120			Dry		Lt Grn Gy	Md-Dk Grn Gy	50		Lt	Nil			2-3	SHALE	DEADWOOD FM Є	.102	.004		.20	.18			116'-126' 2-3% PY DN FCT	SHALE DK GRN; FN GRN; 25% CHIPS; BLY BLEACHED ABOB NEAR DIO CONT
25	125			"		"	"	60		Lt-Mod	"			2-3			.014	.002		.025	.025				
															126'									126'	126'
26	130			"		"	Lt-Md Grn Gy	45		"	Tr			2-3	HB DIO	X X X TERT. INTRUS.	.010	.020		Tr	Tr			126'-135' <1% PY DISSEM W/ MIN PY ON FCT.; THE DIO LOW SULF.; PY CONC. IN SHLE	126'-135' HB DIO Lt Grn Gy FN GRN; HB
															135'	X X X								135'	
27	135			"		"	"	35		Lt	"			1-2	SHALE	DEADWOOD FM Є	.003	.006		Tr	Tr				135'-193' SHALE
																								135'-185' <1% PY AS FCT FILLING	DK GRN + DK CHOC. BRN FN GRN
28	140			"		Md Grn Gy	Md-Dk Grn Gy + Dk Brn	45		Tr	"			1-2			.001	.004		.005	Tr				
29	145			"		"	"	55		"	Nil			<1			.001	.002		NE	NE				
30	150			"		"	"	50		"	"			<1			.002	.004		NE	NE				150'-183' DARK BRN SHALE; DARK CHOC BRN
31	155			"		"	Dk Brn	55		"	Tr			Tr			.000	nil		Tr	NE				
32	160			"		"	"	60		"	"			<1			.001	.002		Tr	NE				
33	165			"		"	"	55		Lt	"			<1			.024	.012		.035	.035				
34	170			Wet			"	55		Tr	Lt			Tr			.002	.004		NE	NE				
35	175			"			"	55		"	Tr			<1			.000	nil		NE	NE				
36	180			"			Med Gy	60		Lt	Tr			<1			.000	nil		NE	NE				

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 4 of 5
Drill Hole # RGE-33

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. 1/2M	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide % PYRITE	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
37	185			WET			DK BRN + MD GY	50		LT	TR			<1	SHALE	DEADWOOD FM €	.005	.010		TR	.010			183'-193' 1% PY	183'-193' DK GRN SHALE
														PYR 3-5										ON DISSEM. + ON FCT; 3-5% PYR AS FN	TYPICAL OF SHALE JUST ABOVE QZTITE
38	190			"			MB-DK GRN GY	55		"	"			1 PY			.020	.030		.010	NF			GRN REPL. (?) MASSES	
39	195			"			MED GRN GY	50		"	"			1-2	193'		.010	.004		.015	.015			193'-198' 1-2% PY	193'
															HB DIO	TERT. INTRUS.								AS DISSEM REPL OF HB; ON FCT	193'-198' HB DIO LT GRN HB ≥ CHL + WISPY PSEUDOMORPHS
40	200			"			"	50		"	Nil			1-2	198'		.001	.002		TR	.005				198'
														PYR 5	SHALE	DEADWOOD FM €								198'-227' ≈ 2-3%	198'-205' SHALE DK BRN 25% CHIPS BLEACHED
41	205			"			MD-DK GRN GY	60		"	TR			PY 3-5	205'		.004	.004		.005	.005			PY AS FCT. FILLINGS; PYR AS PALE GRN REPL. OF SHALE	205'
															HB DIO	TERT. X INTRUS.									205'-210' HB DIO MED GRN; HB TO CHL + PY
42	210			"			LT-MD GRN GY	40		"	Nil			2-3	210'		.004	.004		.005	.005				210'
														PYR 1-2	SHALE	DEADWOOD FM €									210'-227' SHALE DK GRN FN GRN
43	215			"			MD-DK GRN GY	60		TR	"			PY 1-2			.009	.008		.010	TR				
														PYR 1											
44	220			"			"	60		"	"			PY 1			.028	.020		.035	.035		.028		
														PYR 2-3											
45	225			"			"	75		"	"			PY 2			.010	.006		.015	.015				
															227'									227'	227'
46	230			"			LT GRN GY	25		"	TR			2-3	QTZITE 229'	DEADWOOD FM €	.002	.004		TR	TR			229' <1% PY AN FCT IN QTZITE	229' 227'-229' QTZITE LT GY
															HB DIO	TERT. INTRUS									229'-247' HB DIO LT GY GRN; HB TO CHL;
47	235			"			"	25		"	"			<1			.004	.002		.005	.005			229' - 1% PY AS FN DISSEMIN.; REPL. PY	
48	240			"			"	50		"	"			1			.010	.006		.015	.015				
49	245			"			"	40		"	Nil			1-2			.003	.006		NF	.015				
															247' QUARTZITE									247'	247' 247-305' QUARTZITE LT GY

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 5 of 5
Drill Hole # RGE-33

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. 1/2M	Clay%	$CaCO_3$%	FeOx%	Vein Quartz	Silicification	Sulfide % PYRITE	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
50	250			WET			LT-MD GRN GY	50		TR	TR			1	QZTITE	DEADWOOD FM ∈	.004	.004		.005	.010			247'-303' 1% PY ON FCT	QUARTZITE LT GY, FN GRN
51	255			"			LT GY	10		"	"			1-2			.012	.008		.015	.015				253'-265' INTERBEDDED W/ MOD BRN GY QZTITE
52	260			"			LT-MD BRN GY	45		"	"			1-2			.021	.032		.010	.010				
53	265			"			"	35		"	Nil			1-2			.008	.008		.008	.008				265'-275' QZTITE TO MD-DK GY
54	270			"			MED BRN	25		"	TR			1-2			.006	.006		.005	NF				
55	275			"			"	30		"	"			1			.004	.004		.005	.005				275'-305' QZTITE TO LT GY
56	280			"			LT GY	20		"	"			1			.004	.008		TR	TR				
57	285			"			"	15		"	"			<1			.005	.010		TR	.005				
58	290			"			"	10		"	"			1			.009	.008		.010	.010				
59	295			"			" HOR BRN	10		"	LT			<1			.006	.006		.005	.005				
60	300			"			"	45		"	"			1			.005	.010		TR	TR				
61	303			"			LT GY	15		"	TR			<1	303' E.O.H.		.002	.004		NF	TR			E.O.H @ 303'; STOPPED WHEN BIT WORN OUT	

LACANA MINING INC: DRILL LOG DRILL HOLE NO. R6E-84

PROPERTY GILT EDGE STATE S.D. CO. LAWRENCE QUAD DEADWOOD SOUTH

SEC T 4N R 4E CLAIM COORDINATES: (N) (S) 742342 (E) (W) 1,127,084

CONTRACTOR LANG / Pete HELPER Jerry SAMPLER RM/RJM LOGGER RJM

TYPE DRILLING REV. CIRC. TYPE DRILL TRACK MOUNTED COLLAR ELEVATION 5489 FT

BEARING — INCLINATION Vert TOTAL DEPTH 315 HOLE DIAMETER 5 1/8

CASING 7' of 6" BOTTOM ELEVATION WATER LEVEL

SAMPLE DISPOSITION SUMMARY COST/HR COST/FT $8.00

SHEET 1 OF 6 DATES: START COMP.

TIME: START COMP.

MOVING TIME: START COMP

STANDBY TIME: START COMP

TOTAL HOURS DRILLED HOURS COST

BIT COST TOTAL COST

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Wash + 12 Rec. m	Clay%	$CaCO_3$ %	FeOx %	Vein Quartz	Silicifi-cation	Sulfide % Pyrite	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag Au	Au	Ag	Remarks:	
1	5			DRY			MD OR BRN	60		nil	MOD-HVY			Nil	SOIL		~~.005~~	.006		NF	.010				0'-12(?) FILL + SOIL
2	10			"			"	55		"	"			"			~~.004~~ .006	.004		.005	.005				
															12?									12'?	12(?)
3	15			"			"	55		"	"			"	SHALE	DEADWOOD FM E	~~.006~~ .004	.006		.005	NF			0-40' FeOx Pervasive Goethite-Jarosite	12'-85' SHALE
																									12'-40' MD OR BRN W/ HVY LM + GEO; POSS SOME HB DIO BUT too FE STAINED TO IDENTIFY
4	20			"			"	50		"	"			"			~~.007~~ .005	nil		.010	.010				
5	25			"			"	45		"	"			"			~~.007~~ .006	nil		.013	.013				40'-45' LT LM STAIN
6	30			"			"	45		"	"			"			~~.006~~ .008	nil		.013	.015				45'-50' SHALE DARK GY TO DARK GY GRN; BLEACHED FRAG RARE
7	35			"			"	40		"	"			"			~~.002~~ .001	.004		NF	NF				
8	40			"			MED TO LT OR BRN	40		tr.	MOD			tr.			~~.000~~ .004	nil		Tr	.013				
9	45			"			LT OR BRN	65		Md-Hvy	LT			1			.001	.002		Tr	NF			40'-85' Pyrite in fracs and as disseminated blebs especially from 75-85	
10	50			"			MD-DK GRN GY	"		"	LT			2-3			~~.006~~ .006	.006		.005	.005				

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 2 of 6
Drill Hole # R6E-34

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec.	Clay%	$CaCO_3$%	FeOx%	Vein Quartz	Silicification	Sulfides %	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
11	55			Dry			DK-MD GY GRN	55		Md-Hvy	Tr			2-3	SHALE	DEADWOOD FM ∈	.008	.004		.010	.010				SHALE DK GY, FN GRN
12	60			"			"	55		Md	Tr			1-2			.002	.002		.005	NF				
13	65			"			"	60		"	"			1-2			.000	nil		NF	NF				
14	70			"			MED-LT GY GRN	50		"	"			1-2			.006	.002		.010	.005				
15	75			"			MD-DK GRN GY	50		"	"			1			.003	.004		.005	NF				
16	80			"			"	55		"	Nil			2-4			.002	.006		Tr	NF				
17	85			"			"	60		"	Tr			2-4	85'		.007	.010		.005	.005			~	85'
															HB DIO	X X X								85'-97' Pyrite mostly diss w/ minor <1mm frac filling	85'-97' HB DIO MD GY HB FRESH TO ALT TO CHL W/ SOME REPL. BY PY
18	90			"			MD GRN GY	35		"	"			1-2		TERT. INTRUS.	.006	.008		.010	NF				
																X X X									
19	95			"			"	55		"	"			1-2		X X	.001	.002		NF	NF				
															97'	X X X									97'
20	100			"			"	60		"	Nil			2-3	SHALE	DEADWOOD FM ∈	.004	.002		.005	.005			97'-110' Pyrite mostly in fracs w/ some along bedding (?) - replacement? some discrete aggre.	97'-110' SHALE MED TO LT GY GRN; FN GRN; 50% CHIPS HILY BLEACHED
21	105			"			"	50		"	"			1-2			.003	.008		NF	NF				
22	110			"			"	40		"	"			1-2	110'		.002	.004		Tr	NF				110'
															TRACHYTE	TERT. INTRUS.									110'-115' TRACHYTE MED GY GRNDMASS W/ LT GY FELD PHENOS. .1"-.05"
23	115			"			LT GY	40		Lt	"			1	115'	✓ ✓ ✓	.001	.002		NF	NF				115'
															SHALE										115'-119' SHALE DK GRN TO LT GY GRN

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 2 of 6
Drill Hole # RGE-34

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. 1/2 M	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide %	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
24	120			Dry			MD GRN GY	65		Lt-Md	Nil			2-4	119' SHALE	✓ ✓ ✓	.006	.008		.010	TR				119' SHALE DK GY TO LT GRN
															TRACHYTE	TERT. INTRUS.								119'-208' Pyrite	119'-208' TRACHYTE
25	125			"			LT-MD GRN-GY	55		"	TR			2-3		✓ ✓ ✓	.007	.006		NF	TR			mostly diss w/	APHANITIC GRNDMASS MED GY; LT GY FELDSPAR PHENOS
																✓ ✓								minor ≤1 mm frac fillings.	20-40% OF RX + ARE .05" TO .1" IN DIAMETER
26	130			"			MD GRN GY	50		"	"			2-3		✓ ✓ ✓	.007	.018		.005	.005				
																✓ ✓									
27	135			"			LT-MD GRN GY	55		Lt	"			2-3		✓ ✓	.009	.012		.010	.005				
																✓ ✓									
28	140			"			"	50		"	"			2-3		✓ ✓	.006	.008		NF	.010				
																✓ ✓									
29	145			"			"	30		"	"			1-2		✓ ✓	.026	.022		.030	.030		.026		
																✓ ✓									
30	150			Wet			"	25		"	Nil			1-2		✓ ✓	.014	.012		.015	.015				
																✓ ✓									
31	155			"			"	30		"	TR			1-2		✓ ✓	.007	.010		.005	.005				155'-185' GRNDMASS TO LT-MD GRAY; HARD TO TELL PHENOS FROM GRNDMASS
																✓ ✓									
32	160			"			"	30		"	"			1-2		✓ ✓	.005	.004		.010	TR				
																✓ ✓									
33	165			"			"	30		"	Nil			1-2		✓ ✓	.009	.006		.010	.010				
																✓ ✓									
34	170			"			"	30		"	TR			1-2		✓ ✓	.013	.008		.015	.015				
																✓ ✓									
35	175			"			"	35		"	Nil			1-2		✓ ✓	.002	.006		TR	TR				
																✓ ✓									
36	180			"			"	25		"	"			1-2		✓ ✓	.013	.010		.015	.015				
																✓ ✓									

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 4 of 6
Drill Hole # RGE-34

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. ±12 M	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide % pyrite	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
37	185			WET			LT-MD GRN-GY	20		lt	Nil			1-2	TRACHYTE	TERT. INTRUS.	.004	.012		Tr	NF				TRACHYTE
																✓ ✓ ✓									185'-200' GRNDMASS TO MED TO DK GY
38	190			"			MD GRN GY	20		"	Tr			1-2		✓ ✓	.004	.002		.015	.015				
																✓ ✓									
39	195			"			"	30		"	"			1-2		✓ ✓	.009	.008		.010	.010				
																✓ ✓									
40	200			"			"	40		"	"			1-2		✓ ✓	.005	.010		.005	NF				
																✓ ✓									200'-208' GRNDMASS MED GY AS AT 119'
41	205			"			" + DK BRN	30		"	Nil			1		✓ ✓	.010	.014		.008	.008				
																✓ ✓									
42	210			"			"	45		"	Tr			<1	208'	✓ ✓ ✓	.010	.004		.015	.015				208'
															SHALE	DEADWOOD FM Є									208'-214' DARK BRN SHALE FN GRN; DK BRN
43	215			"			"	20		"	"			<1	214'	X X X	.005	.006		.005	.005				214'
															HB DIO	TERT. INTRUS. X									214'-219' HB DIO WISPY BLK AREAS LOOKS LIKE PSUEDOMORPHS AFT. HB
44	220			"			DK BRN	2		tr	Nil			1	219'	X X X	.015	.004		.020	.020				219'
															SHALE	DEADWOOD FM Є									219'- DARK BRN SHALE FN GRN
45	225			"			"	35		"	"			tr			.003	nil		.010	Tr				DK BRN W/ MINOR BLEACHED FRAG.
46	230			"			LT GRN GY + DK BRN	60		"	Tr			1	229'	X X X	.002	.004		NF	NF				229'
															HB DIO	TERT. INTRUS. X								229'-234 Pyrite mostly diss w/ minor frac filling	229'-234' HB DIO FN GRN HB PSUEDOM.; NO FELD PHENOS.
47	235			"			LT GRN GY + DK BRN	25		"	Nil			1-2	234'	X X X	.011	.002		.015	.015				234'
															SHALE	DEADWOOD FM Є									234'-256' SHALE
48	240			"			DK BRN	50		"	"			<1			.013	.008		.030	.030			240'-250' approx 1% pyrrhotite as veinlets and replacing fd, DK GRN Sil(?) orbs, Aphanitic 250-255 2-5% Pyrrhotite as 240-250'	234'-240' DK BRN SHALE
																									240'-256' DK GRN + DK BRN FN GRN
49	245			"			MD-DK GRN GY	50		"	Nil			1			.013	.040		.090	.090				

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 5 of 6
Drill Hole # R6R-34

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. 1/2 M	Clay³	$CaCO_3$³	FeOx³	Vein Quartz	Silicification	Sulfide % / Pyrite	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
50	250			WET			MD-DK GRN GY	30		tr.	TR			<1	SHALE	DEADWOOD FM ∈	.027	.022		.030	.030				SHALE AS AT 240'
51	255			"			"	30		"	"			1			.006	.008		TR (.005)	.010				
															256'									256'	
52	260			"			LT GRN GY	40		"	Nil			1-2	TRACHYTE	TERT. INTR.	.156	.088		.190	.190			256'-274' Pyrite mostly diss. As above.	256'-274' TRACHYTE (?) LT GY GRN TO MED GRN; VRY ALT. TO CHL. COLOR; SOME FELD PHENOS. STILL VISIBLE; NO GOOD FR PSUEDOM. OBSERVD
53	265			"			"	5		"	"			1			.096	.058		.115	.115				
54	270			"			LT-MD GRN GY	40		"	"			1-2			.043	.036		.050	.050				
55	275			"			MD GRN GY	35		"	"			2-4	274'		.045	.040		.040	.040	70' .045			274'
															SHALE	DEADWOOD FM ∈								274'-283' 20-25% Chrysotile replacing DK GRN; Aphanitic, Ld L.S. or Black shale(?) Silicified(?)-glassy.	274'-283' SHALE DK GRN TO BLK; TYPICAL OF SHALE JUST ABOVE QTZITE
56	280			"			DK GRN GY	20		nil	TR			1			.037	.030		.040	.040				
57	285			"			MD-DK GRN GY	40		"	Nil			1-2	283'		.037	.042		.035	.035			283'-302' Pyrite mostly diss. w/ minor free filling	283'
															TRACHYTE	TERT. INTRUS.									283'-302' TRACHYTE MED GY GRNMASS; LT GY FELD. PHENOS.; GOOD FN GRN TRACHYTE
58	290			"			LT GRN GY	40		tr.	"			1-2			.019	.008		.025	.025				
59	295			"			"	3		"	TR			1-2			.084	.034		.025	.025				
60	300			"			"	30		"	"			2-3			.018	.014		.020	.020				
															302'									302'	
61	305			"			" + DK GRN GY	30		"	Nil			2-3	SHALE	DEADWOOD FM ∈	.045	.036		.050	.050			302'-309' tr-1% Chrysotile as above. Pyrite mostly in fracs. w/ minor disseminated blebs.	302'-309' SHALE MED TO DK GRN FN GRN
62	310			"			DK GRN GY	20		lt	TR			2-3	309' QUARTZITE	DEADWOOD	.039	.038		.040	.040			309'-315' pyrite mostly in ≤ 1mm fracs.	309' 309'-315' QUARTZITE LT GY

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 6 of 6
Drill Hole # RGE-34

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec.	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicifi-cation	Sulfide %	Rock Type	Geology	Assayed	SHMC Au	SHMC Ag	OPT Au	OPT Ag	Au	Ag	REMARKS:
63	315			WET			LT GY	2		Lt	Nil			1-2	QTZITE		.023	.020		.025	.025			QUARTZITE LT GY
																								E.O.H. 315'

LACANA MINING INC: DRILL LOG _____ DRILL HOLE NO. RGE-35

PROPERTY GILT EDGE STATE S.D. CO. LAWRENCE QUAD DEADWOOD SOUTH

SEC ___ T 4N R 4E CLAIM _____ COORDINATES: (N) (S) 747,134 (E) (W) 1,136,746

CONTRACTOR LANG/Peter HELPER Jerry SAMPLER RM LOGGER RJM

TYPE DRILLING REV. CIRC. TYPE DRILL TRACK MOUNTED COLLAR ELEVATION 5464 FT

BEARING — INCLINATION Vert TOTAL DEPTH 305' HOLE DIAMETER 5 1/8"

CASING 7'@6" BOTTOM ELEVATION _____ WATER LEVEL 45'

SAMPLE DISPOSITION _____ SUMMARY _____ COST/HR _____ COST/FT $8.00

SHEET 1 OF 5 DATES: START _____ COMP. _____

TIME: START _____ COMP. _____

MOVING TIME: START _____ COMP _____

STANDBY TIME: START _____ COMP _____

TOTAL HOURS DRILLED _____ HOURS COST _____

BIT COST _____ TOTAL COST _____

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Wash +1/2 M Rec.	Clay%	$CaCO_3$ %	FeOx %	Vein Quartz	Silicifi-cation	Sulfide % Pyrite	Rock Type	Geology	Assayed	Silver Valley OPT Au	Silver Valley OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	Remarks:	
1	5			Dry		Lt-Md ORG-BRN	Lt-Md ORG-BRN	65		Nil	Lt-Md			Nil	Soil & Alluv	Soil & Alluv.				.015	.015				0'-8' Soil & Alluvium Comprised of Lt-Md ORG-BRN FeOx stained and bleached Trachyte Porph.
															8'									8'	
2	10			"		Md ORG-BRN	Md ORG-BRN	70		"	"			"	TRACHYTE	TRACHYTE				.015	.015			"square" (cubic) disc .1-.5mm cavities to casts line w/ ORG-BRN FeOx (goethite + jaro.) after pyrite?	8'-19' TRACHYTE PORPHYRY Med-Crse GRND tan to Lt GY - stained Lt ORG-BRN; 30-40% U. Lt GY to Lt GY feldspars ranging from .5 mm to ± 1 cm - altered to clay in tan to lt BRN Aphanitic GND MSS.
3	15			"		Lt-Md ORG-BRN	"	60		"	Md			"						.010	.010				
4	20			"		Md-DK ORG-BRN	Md-DK ORG-BRN	70		"	Md-Hvy			"	19 Shale & Siltstone	DEADWOOD FM.	.003			TR	.005			19'	19'-44' DEADWOOD FM. Intbdd DK GY Sltst & lt-Md GRN-GY & Lt BRN Shale fissle to thin bedded.
5	25			"		"	DK ORG-BRN	40		"	"			"						.015	.015			19-26' Md-Hvy ORG-Brown FeOx (Goethite + Jaro) coating chips.	
6	30			"		DK GRN GY	DK GRN GY & ORG-BRN	40		"	Lt-Md			/						.010	.010			26'-44' Pyrite as discrete xtal aggregates 1-3mm and as veinlets (.1-2mm) along & x cutting bedding	
7	35			"		Md-DK GRN-GY	DK GY	50		TR	TR			1-2						.015	.015				
8	40			"		Lt-Md GRN-GY	DK GRN GY	50		"	TR			"			.007	.004		.010	.010				
9	45			"		Lt GY	"	50		Lt-Md	"			2-3	44' DIORITE	DIORITE	.025	.020		.030	.030			44' 44-49' Pyrite mostly .1-.5 mm w/ .2' minor .1-1mm diss.	44'-49' HORNBLENDE DIORITE PORPH. Lt-GRN-GY; fm GRND PORPH. .5-1 mm Dk GY-BLK-Shaped spots (Hbld?) & Lt GY feldspar 1-3 mm
10	50			Wet			Lt-Md GRN GY	60		Lt	"			1-2	49' Shale	DEADWOOD FM.	.018	.020		.015	.015			49' veinlets, 49'-58' Pyrite as above (26-44').	49'-58' DEADWOOD FM.

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 2 of 5
Drill Hole # RGE-35

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. ±12"	Clay%	$CaCO_3$%	FeOx%	Vein Quartz	Silicification	Sulfide % (pyrite)	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag (Au)	Au	Ag	REMARKS:	
11	55			wet			Md GY	75		Lt	TR			2-4	Shale	DEADWOOD FM.	.060	.066		.055	.055				DEADWOOD FM. Intbdd Lt-Md GRN GY & Lt-Md BRN Shale fissle to thin bedded.
															58			~~.044~~						58'	
12	60			"			Lt-Md GY & ORG-BRN	55		"	Lt			1-2	DIORITE	DIORITE	.042	.044		.040	.040			58'-82' pyrite mostly .1-.5 mm diss. w/ minor veinlets .1-1 mm.	58'-82' HORNBLENDE DIORITE PORPH. Lt GY to Lt GRN-GY & ORG BRN FN GRND PORP. w/ Md-Dk GY lath-shaped spots .2-2mm of hornblende and Lt GY 1-3mm feldspar (K-spar?) some of which is clay after plag(?) in a Aphanitic GRNmass.
13	65			"			"	85		"	Lt			"			.032	.028		.035	.035				
14	70			"			"	85		"	Lt			"			.031	.032		.030	.030				
																						80'		.037	
15	75			"			"	60		"	"			"			.021	.022		.020	.020				
16	80			"			"	75		"	Lt Md			"			.018	.016		.020	.020				
															82									82'	
17	85			"			Lt-Md GY	75		"	TR			2-3	Shale	DEADWOOD FM	.032	.030		.035	.030			82'-94' pyrite mostly .1-1mm veinlets along & x cutting bedding w/ minor distinct aggregates 1-3mm.	82'-94' DEADWOOD FM. Intbdd Lt-Dk GRN GY & Lt to Md BRN Shale fissle to thin bedded.
18	90			"			"	65		TR	"			"			.035	.040		.030	.030				
19	95			"			"	55		"	"			2-3	94' DIORITE	DIORITE	.050	.040		.060	.060			94'	94'-119' HORNBLENDE DIORITE PORPH.
							"																	94'-119 pyrite as from 58-82' (above)	Lt-Md GRN-GY, FN GRN PORPH w/ Md-Dk GY .1-1mm spots (some-lath shaped) of hbld or Magnetite + pyrite after hbld; Lt GY 1-2mm feldspar phenos partially to totally altered to clay.
20	100			"			"	40		TR-Lt	"			1-2			.077	.074		.080	.080				
21	105			"			"	65		"	Nil			"			.065	.050		.080	.080				
22	110			"			"	60		TR	TR			2-3			.038	.022		.035	.035				
23	115			"			"	35		"	"			1-2			.020	.014		.025	.025				

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 3 of 5
Drill Hole # R6E-35

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec.	Clay%	$CaCO_3$%	FeOx%	Vein Quartz	Silicification	Sulfide %	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
24	120			Wet			Lt-Md GY	40		TR	TR			1-2	DIORITE	DIORITE	.034	.034		.035	.035			119	HORNBLENDE DIORITE
															Shale	DEADWOOD FM.								119'-125' Pyrite as above (82-94')	119'-143' DEADWOOD FM. 119'-125' Int bdd Lt to Md GRN GY & Lt to Md BRN Shale fissle to thin bedded
25	125			"			Md GRN GY	40		Lt	"			2-3			.005	.010		NF	NF				
26	130			"			DK BRN	55		TR	"			TR			.002	.004		NF	NF				125'-139' Dk BRN fissle shale
27	135			"			"	55		"	"			"			.008	.006		.010	.005				
28	140			"			"	55		"	Lt			"			.003	.006		NF	NF				139'-143' Int bdd Md-Dk GRN GY & Dk BRN Shale & Md+Dk GRN GY Sltst
29	145			"			MD-DK GRN-GY	60		Lt	TR			1-2	143' DIORITE	DIORITE	.005	.010		TR	NF			143' 143'-181' HORNBLENDE DIORITE PORPH. Lt to Md GRN GY; "Spotted" FN GRND POR. as between 94'-119'	
30	150			"			Lt-Md GY	45		"	"			"			.003	.006		TR	.005			143'-181' Pyrite mostly diss w/ minor .1-1 mm veinlets.	
31	155			"			"	70		"	"			"			.040	.006		.075	.075				
32	160			"			"	50		"	"			"			.012	.004		.020	.020				
33	165			"			"	40		"	"			"			.006	.006		.010	TR				
34	170			"			"	50		"	"			"				~~No sample~~		.010	.010				
35	175			"			"	30		"	"			"				~~.004~~		.010	.005				
36	180			"			"	50		"	"			"	181'	DEADWOOD FM.		~~.004~~		NF	NF			181'	181'-190' DEADWOOD FM.

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 4 of 5
Drill Hole # RGE-35

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec.	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide %	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	SHMC OPT Au	SHMC OPT Ag	Au	Ag	REMARKS:	
37	185			Wet			Md-DK GRN-GY	30		Lt	Nil			2-3	Shale & Siltstone	DEADWOOD FM.				.005	NF			181-190' pyrite as uphole (92-94)	DEADWOOD FM. Int bdd Md to Dk GRN GY & Md to Dk BRN Shale & Dk GY siltst to V. FN. GRND S.S.
																								180'-215' TR TO 5% MAGN.	
38	190			"			"	65		TR	"			3-5	190' DIORITE	DIORITE				.010	.010			190' 190'-194' Pyrite diss. w/ minor veinlets	190'-194' HORNBLENDE DIORITE POR. As above (143-181')
39	195			"			"	45		"	"			2-3	194' Shale & Quartzite	DEADWOOD FM.				.010	.010			194' 194-217' Pyrite as distinct xstal aggregates 1-3 mm & as veinlets along & x cutting bedding (1/4-2 mm).	194'-229' DEADWOOD FM. 194'-217' Int bedded Md-Dk GRN GY Shale & Siltstone & Dk GY Siltstone to Med GRNDSS or Quartzite — 194-217 Dominately Dk GY SS.
40	200			"			"	60		"	"			2-4						TR	TR				
41	205			"			"	40		"	TR			"						.015	.015				
42	210			"			"	65		Lt	Nil			3-5						NF	NF				
43	215			"			"	65		"	"			1-2						.005	.005			217-229 pyrite as 1/4-1 mm veinlets & diss in quartzite.	217'-229' Lt GY to Lt BRN, FN to Md GRND Qtzite w/ minor GRN GY int bdd siltst to FN GRN SS.
44	220			"			" & Vlt GY	45		TR	"			"	Quartzite					NF	TR				
45	225			"			"	45		"	"			2-3						NF	NF				
46	230			"			Lt-Md GY-BRN	50		"	TR			1-2	229' DIORITE	DIORITE				NF	NF			229' 229-236' Pyrite mostly diss w/ minor veinlets.	229'-236' HORNBLENDE DIORITE POR. As above. (143-181')
47	235			"			Lt-Md GRN-GY	40		TR	"			"						NF	NF				
															236' Quartzite	DEADWOOD FM.								236'	236'-282' DEADWOOD FM.
48	240			"			Lt-Md GY-BRN	65		"	"			"						NF	.005			236'-282' Pyrite diss & along 1/4-1 mm veinlets	236'-252' Lt to Md BRN & GY, FN to Md GRND Qtzite.
49	245			"			Md-DK BRN	50		"	"			"						TR	NF				

LACANA MINING INC: PROPERTY GILT EDGE

Sheet 5 of 5
Drill Hole # R6E-35

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec.	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide %	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	Ag	SHMC OPT Au	Ag	Au	Ag	REMARKS:	
50	250			wet			Md-DK BRN	45		TR	TR			/	Quartzite	DEADWOOD FM.				.010	.010			Pyrite as above	DEADWOOD FM.
51	255			"			Lt-Md GY	50		Nil	"			<1						.010	.010				252'-282 U. Lt GY to Lt GY; FN to Md GRN well sorted Quartzite GRNS w/ indisdinct to well subared boundaries
52	260			"			Lt GY	20		"	"			/						.015	.015				
53	265			"			"	25		"	"			<1				NO SAMPLE		.015	.015				
54	270			"			"	15		"	Nil			<1			.010	.004		.075	.075				
55	275			"			"	10		"	"			<1			.012	.004		.020	NF				
56	280			"			"	10		"	"			<1			.008	.006		.010	.010				
															282'									282'	
57	285			"			Md-DK GY	20		TR	"			/	Schist w/ Chert	Precambrian Metamorphic Rocks	.006	.006		.005	.005			282-305 Pyrite as veinlets in chert w/ quartzite and	282'-305' PRECAMBRIAN METAMORPHIC ROCKS
58	290			"			"	25		Nil	"			<1			.008	.010		.005	TR			along foliation in schist.	"Interbedded" Qtz-biotite schist MH to DK GY; LtGY chert and Lt BRN V. FN GRN Quartzite.
59	295			"			"	30		"	"			/			.019	.008		.030	.030				
60	300			"			Md-DK BRN	50		"	TR			/			.010	.004		.015	.015				
61	305			"			LT-Md GRN-GY	3		TR	"			/			.013	.006		.020	.020				

LACANA MINING INC: DRILL LOG DRILL HOLE NO. RGE-37

PROPERTY GILT EDGE STATE S.D. CO. LAWRENCE QUAD DEADWOOD SOUTH

SEC T 4N R 4E CLAIM COORDINATES: (N) 744974 (E) 1,126,716

CONTRACTOR LANG/Pete HELPER Jerry SAMPLER RM/BS LOGGER RJM

TYPE DRILLING REV. CIRC. TYPE DRILL TRACK MOUNTED COLLAR ELEVATION 5504 Ft

BEARING — INCLINATION Vert. TOTAL DEPTH 305' HOLE DIAMETER 5 1/8"

CASING 7 0/6" (pulled) BOTTOM ELEVATION WATER LEVEL 105'

SAMPLE DISPOSITION SUMMARY COST/HR COST/FT $8.00

SHEET 1 OF 3 DATES: START COMP.

TIME: START COMP.

MOVING TIME: START COMP

STANDBY TIME: START COMP

TOTAL HOURS DRILLED HOURS COST

BIT COST TOTAL COST

RGE-37

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Wash +1/2M Rec.	Clay%	$CaCO_3$ %	FeOx %	Vein Quartz	Silicification	Sulfide % / Pyrite	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	Ag	MONITOR Au	Ag	Au	Ag	Remarks:
1	5			Dry		Lt-Md RED ORG BRN	Lt-Md Red ORG BRN & LtGY	60		Nil	Md Goeth Hem			Nil	Tailings & Colluvium	Tailings & Colluvium	.022	.008		.037				
2	10			"		"	"	<10		"	"			"			.039	.044		.034				
3	15			"		N.R.		0		N.R.	N.R.			N.R.				No Sample						
4	20			"		N.R.		0		N.R.	N.R.			N.R.				No Sample						
5	25			"		N.R.		0		N.R.	N.R.			N.R.				No Sample						
6	30			"		Lt Red ORG BRN	Md ORG BRN	80		Nil	"			Tr.			.022	.028		.016				
7	35			"		Md ORG BRN	Lt-Md ORG BRN	75		"	Md Goeth + Min Hem.			Tr.			.023	.014		.033				
8	40			"		Md ORG BRN	" & Lt GY	40		"	Lt-Md Goeth			tr.	36' TRACHYTE	TRACHYTE	.024	.032		.017				
9	45			"		Lt ORG BRN	Lt ORG BRN & GY	20		"	"			<1			.016	.020		.012				
10	50			"		Lt ORG BRN	"	10		"	"			<1			.011	.016		.006				

OXIDE ROCK TYPE

36'

36' - 55' Mixed FeOx (mostly goeth.) & sulphide (pyrite)

0-36' Tailings & COLLUVIUM Comprised of chips of Trachyte porphyry, Sanidine Rhyolite Porphyry & Precambrian

10'-25' No Recovery (NR) Schistose rocks

36'-30.5' Med. GRAINED TRACHYTE PORPHYRY Medium-Coarse? grained porph. Comprised of 40-50% ± Lt GY K-spar in an aphanitic groundmass that varies from Lt-Md ORG BRN stained by

LACANA MINING INC: PROPERTY Gilt Edge

Sheet 2 of 5
Drill Hole # R6E-37

no.	Foot Hole	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. 1/2 M	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide % Pyrite	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	MONITOR OPT Au	MONITOR OPT Ag	Au	Ag	REMARKS:
11	55			Dry		Lt ORG BRN & GY	Lt ORG BRN & GY	15		nil	Lt Goeth			1	TRACHYTE	TRACHYTE	.008	.012		.005				55'-60' dominately sulphide (pyrite)
12	60			"		Lt GY	Lt GY	<10		"	Tr. Goeth			1-2			.008	.012		.004				60'-70' Mixed FeOx + sulphide (pyrite)
13	65			"		Lt ORG BRN	Lt ORG BRN & GY	15		"	Lt Goeth			1-2			.008	.010		.006				70'-80' dominately FeOx w/ minor sulphide (pyrite).
14	70			"		Lt ORG BRN	Lt-Md ORG BRN	10		"	Lt-Md Goeth			tr.			.009	.010		.008				
15	75			"		"	Md ORG BRN	10		"	"			tr.			.015	.016		.015				
16	80			"		"	Lt-Md ORG BRN	10		"	"			<1			.016	.018		.015			20	80'-85' mostly sulphide (pyrite) w/ minor FeOx
17	85			"		Lt GY	Lt ORG BRN & GY	20		"	Lt Goeth			1			.012	.012		.012				
18	90			"		Lt Red ORG BRN	Lt-Md Red ORG BRN	10		"	Lt-Md Goeth Lt. Hem			tr.			.015	.018		.013				85'-110' Mostly FeOx w/ minor sulphide (pyrite)
19	95			"		Lt RED ORG BRN	Lt ORG BRN	15		"	Lt Goeth			nil.			.023	.020		.026				
20	100			"		V. Lt RED ORG BRN	"	15		"	"			nil.			.016	.018		.015				
21	105			"		Lt GY	"	35		"	Lt-Md Goeth			<1			.059	.052		.051				
22	110			Wet			Lt-Md Red ORG BRN	10		"	Lt-Md Goeth + Lt Hem			tr.			.015	.018		.018				110'-125' Mixed FeOx + Sulphide (pyrite).
23	115			"			Lt ORG BRN	20		"	Lt-Md Goeth			1			.031	.028		.034				

MED. GRAINED TRACHYTE PORPHYRY FeOx to lt gy & green gy that has generally been altered to a mixture of clay? + sericite? + qtz?± k-spar ± clinozoisite + pyrite. Pyrite generally occurs in groundmass, but occassionally found replacing plag(?) w/ clay + sericite &/or k-spar

K-spar & Plag? (5 t%) x-stals are subhedral to euhedral

LACANA MINING INC: PROPERTY Gilt Edge

Sheet 3 of 5
Drill Hole # RGE-37

no.	Footage	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. %	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide % pyrite	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	MONITOR OPT Au	MONITOR OPT Ag	Au	Ag	REMARKS:	
24	120			wet			Lt-Md ORG BRN & LT GY	10		nil	Lt Goeth			1-2	TRACHYTE	TRACHYTE	.015	.016		.014					MED. GRAINED TRACHYTE PORPHYRY
																									as before
25	125			"			Lt GRN GY	15		"	Tr Goeth			1-2			.015	.016		.014				125'-305' Sulphide	
																								(pyrite) w/ tr. to	
26	130			"			Lt-Md GRN GY	<10		"	Tr. Goeth			1			.010	.014		.006				local light areas	
																								of goeth.	
27	135			"			"	10		"	"			1-2			.010	.010		.010				Pyrite Throughout the hole;	
																								occurs as finely	
28	140			"			"	10		"	"			1-2			.019	.020		.018				disseminated	
																								xstals; small	
29	145			"			"	20		"	"			1-2			.011	.010		.013			20	(.1-.5 mm) veinlets	
																								and distinct	
30	150			"			"	10		"	"			1-2			.004	.002		.006				xstal aggregates	
																								in open space	
31	155			"			"	15		"	"			1			.009	.012		.006				fillings along	
																								veinlets (?) or	
32	160			"			"	<10		"	"			1-2			.022	.024		.020				occassionally in	
																								vugs w/or w/o	
33	165			"			Lt GY	<10		"	Nil			2-3			.029	.030		.029				qtz.	
																								-Pyrite to approx	
34	170			"			"	<5		"	"			1			.035	.040		.031				125' has lt	
																								coating of	
35	175			"			"	<10		"	Tr Goeth			1-2			.063	.062		.064				irridescent goeth.	
36	180			"			Md GRN GY	10		"	"			2-3			.053	.056		.050					

LACANA MINING INC: PROPERTY Gilt Edge

Sheet 4 of 5
Drill Hole # RGE-37

no.	Foot typ	Drill Rec.	Walls	Wetness	Min.	Color Dry	Color Washed	Washed Rec. +1/2 M	Clay³	$CaCO_3$³	FeOx³	Vein	Quartz Silicifi-cation	Sulfide % Pyrite	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	MONITOR OPT Au	MONITOR OPT Ag	Au	Ag	REMARKS:	
37	185		wet				Lt-Md GRN-GY	10		nil	Lt Goeth			2-3	TRACHYTE	TRACHYTE	.065	.070		.060				180'-210' ORG BRN FeOx	MEDIUM GRAINED TRACHYTE PORPHYRY
																								as lt. coating on	as before...
38	190		"				"	10		"	Tr-Lt Goeth			2-3			.073	.094		.092				free. to diss. after	
																								Pyrite	
39	195		"				"	<10		"	"			1-2			.060	.054		.067					
40	200		"				"	<10		"	"			2-3			.082	.082		.083					
41	205		"				"	<10		"	"			1-2			.045	.042		.048					
42	210		"				"	10		"	Tr Goeth			2-3			.027	.030		.024					
43	215		"				"	10		"	"			2-3			.020	.030		.029					
44	220		"				Lt-Md GRN-GY & Lt-GY.	<10		"	"			2-3			.025	.026		.024					
45	225		"				Lt GY	<5		"	"			2-3			.052	.054		.050					
46	230		"				"	<10		"	nil			2-3			.050	.052		.048					
47	235		"				"	<5		"	"			2-4			.054	.054		.055					
48	240		"				"	<10		"	Tr Goeth			2-4			.060	.058		.062				240'-270' FeOx	
																								as from 180-210	
49	245		"				Lt-Md GRN GY & LtGY	<10		"	"			2-4			.050	.048		.052					

LACANA MINING INC: PROPERTY Gilt Edge

Sheet 5 of 5
Drill Hole # R6E-37

no.	Footage	Drill Rec.	Wells	Wetness	Min.	Color Dry	Color Washed	Washed Rec. 1/2 M	Clays	$CaCO_3$	FeOx	Vein Quartz	Silicification	Sulfide % pyrite	Rock Type	Geology	Assayed	SILVER VALLEY OPT Au	SILVER VALLEY OPT Ag	MONITOR OPT Au	MONITOR OPT Ag	Au	Ag	REMARKS:
50	250			wet			Lt-Md GY & GRN GY	15		nil	Tr. Goeth			3-5	TRACHYTE	TRACHYTE	.080	.084		.076				MEDIUM GRAINED TRACHYTE PORPHYRY
																								as before
																								Pyrite as before
51	255			"			"	<10		"	"			2-4			.080	.082		.078				
																								Summary of FeOx / Sulphide
52	260			"			"	10		"	"			3-5			.056	.058		.054				Relative to R6E-39 & 40
																								FeOx is lt to minor in
53	265			"			Lt GRN GY	10		"	nil			2-3			.055	.056		.055				R6E-37 & Sulphide is
																								predominate. FeOx is dominately
54	270			"			"	<5		"	Tr. Goeth			2-3			.075	.078		.072				Org-brn (mixture of goethite
																								+ jarosite ± diadochite).
55	275			"			Lt GY	25		"	"			3-5			.082	.086		.078				
																						?	?	
56	280			"			Lt-Md GY & GRN GY	<10		"	"			2-4			.029	.030		.028				
57	285			"			Lt GRN GY	<10		"	"			2-3			.027	.040		.034				
58	290			"			"	80		"	"			2-4			.036	.036		.036				
59	295			"			"	<10		"	"			2-3			.043	.044		.042				
60	300			"			"	<5		"	"			2-3			.042	.042		.042				
65	305			"			"	10		"	"			2-5			.062	.064		.060				

Monitor Geochemical Laboratory, Inc.

Certificate of Analysis

Client: Lacana Mining Inc.
2005 Ironwood Parkway, Rm. 105
Coeur d'Alene, Idaho, 83814

Analytical Methods: Au, Ag, Fire Analyses (1 A.T.)
Au, N/R Cy Leach A.A.

Date: Jan. 19, 1984
Client Order No.:
Invoice No.: 11430 Lab #3678
cc: Paul Dircksen

SAMPLE #	Ave	S.V. FIRE	Fire Au(oz/ton)	(SV vs. ADJT)	Fire Ag(oz/ton)		N/R Cy Au(oz/ton)	
RGE-37-0-5	.022	.008	.037	<.029>	.05		.019	51 %
5-10**	.039	.044	.034	+.010	.05		.020	60 %
25-30	.022	.028	.016	+.012	.05		.011	69
30-35	.022	.014	.033	<.019>	-.05		.025	76
35-40	.024	.032	.017	+.015	-.05	mixed	.015	88
40-45	.016	.020	.012	+.008	-.05		.010	83
45-50	.011	.016	.006	+.010	-.05		.006	100
50-55	.008	.012	.005	+.007	-.05		.004	80
55-60	.008	.012	.004	+.008	-.05		.002	50
60-65	.008	.010	.006	+.004	-.05		.004	67
65-70	.009	.010	.008		-.05	mixed	.006	75
70-75	.015	.016	.015		.10		.012	80
75-80	.016	.018	.015		-.05		.011	73
80-85	.012	.012	.012		-.05		.004	33
85-90	.015	.018	.013		-.05		.010	77
90-95	.023	.020	.026		-.05		.023	88
95-100	.016	.018	.015		-.05		.008	53
100-105	.051	.052	.051		.05		.022	43
105-110	.018	.018	.018		.10		.010	56
110-115	.031	.028	.034		.10	mixed	.020	59
115-120	.015	.016	.014		-.05		.008	57
120-125	.015	.016	.014		-.05		.006	43
125-130	.010	.014	.006		-.05		.003	50
130-135	.010	.010	.010		.05		.005	50
135-140	.019	.020	.018		.05		.014	78
140-145	.011	.010	.013		.05		.006	46
145-150	.004	.002	.006		-.05		.003	50
150-155	.009	.012	.006		.05		.002	33
155-160	.022	.024	.020		.05		.013	65
RGE-37-160-165	.029	.030	.029		.05		.015	52

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence

P.O. Box 1901 • Elko, Nevada 89801 • (702) 738-3236
106 W. Front St.

Lacana Mining Inc.

Invoice #11430 Lab #3678

Jan. 19, 1984

SAMPLE #	Fire Au(oz/ton) Silver Valley	Ave	Fire Ag(oz/ton)	N/R Cy Au(oz/ton)	
RGE-37-165-170	.040 .031	.035	.15	.019	61 %
170-175	.062 .064	.063	.15	.055	86
175-180	.056 .050	.053	.15	.035	70
180-185	.070 .060	.065	.10	.046	77
185-190	.094 .092	.093	.10	.064	70
190-195	.054 .067	.060	.05	.038	57
195-200	.082 .083	.082	.10	.054	65
200-205	.042 .048	.045	.10	.019	40
205-210	.030 .024	.027	.30	.013	54
210-215	.030 .029	.030	.25	.013	45
215-220	.026 .024	.025	.30	.014	58
220-225	.054 .050	.052	.70	.021	42
225-230	.052 .048	.050	.50	.028	58
230-235	.054 .055	.054	.70	.026	47
235-240	.058 .062	.060	.50	.027	44
240-245	.048 .052	.050	.10	.033	63
245-250	.084 .076	.080	.25	.051	67
250-255	.082 .078	.080	.10	.061	78
255-260	.058 .054	.056	.05	.034	63
RGE-37-260-265	.056 .055	.055	.05	.041	75
RGE-37-265-270	.078 .072	.075	.10	.057	79
270-275	.086 .078	.082	.15	.057	73
275-280	.030 .028	.029	.10	.018	64
280-285	.040 .034	.037	-.05	.023	68
285-290	.036 .036	.036	.05	.022	61
290-295	.044 .042	.043	.05	.027	64
295-300	.042 .042	.042	.25	.027	64
RGE-37-300-305	.064 .060	.062	.35	.043	72

Surface

Mixed

A. L. Koch
Laboratory Manager

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence