PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-223
SHEET 1 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" rev. circ.
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

ELEVATION: —
BEARING: —
INCLINATION: -90
TOTAL DEPTH: 300

COLLAR COORDINATES:
N 747,910 E 1,125,830
STARTED:
COMPLETED:

COMMENTS: Summary sheet 5

AVE. CORE REC'Y/HOLE:

SECTION: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70

ALTERATION: oxide, silica, sericite, argillic

FRACTURING

MINERAL Py

GEOLOGY

DESCRIPTIVE GEOLOGY

HORNBLENDE DIORITE - Td
Rare fresh hornblende, pervasive alteration, argillic and phyllic.

← Some PC inclusions - altered.

Limit of Strong oxidation

← Some dissem. magnetite

Rock type
Uncertain, perhaps rhyolite dike (?)

← 5% magnetite

← Trace magnetite

← Red hematite oxidation

← Trace pyrite

← 2-3% pyrite

Strong

weak

DRILLING INTERVAL

% CORE RECOVERED

CORE SIZE

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver Au f.a. only
1160			.003	.003	-	-	-				-
1161			.008	.008	-	-	-				-
1162			.005	.005	-	-	-				-
1163			.010	.010	220	.006	-				-
1164			.020	.020	180	.006	-				-
1165			.020	.020	140	.005	-				-
1166			.018	.018	120	.003	-				-
1167			.015	.010	140	.003	-				-
1168			.015	.015	80	.005	-				-
1169			.015	.015	40	.005	-				-
1170			.005	tr	20	.003	-				-
1171			.005	.005	-	-	-				-
1172			tr	tr	-	-	-				-
1173			nf	tr	-	-	-				-

The C. F. Haeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-223
SHEET 2 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" rev. circ.
LOGGED BY: C.A. Rastman
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION: 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140

ALTERATION: oxide, silica, sericite, hornfels

FRACTURING

MINERAL: py

GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

weak

HORNBLENDE DIORITE-Td

contact

DEADWOOD FM.-Ꞓd

Mudstones, siltstones that have been altered to hornfels.

← Trace magnetite ?

← weak vein intensity - thin quartz veinlets.

Trace

← Mn oxide ?

weak - moderate ox - weak

contact

HORNBLENDE DIORITE-Td - SILL

weak

contact

← 2-3% pyrite

DEADWOOD FM - Ꞓd

DRILLING INTERVAL

% CORE RECOVERED

CORE SIZE

CORE SAMPLE INTERVALS & ASSAYS

COMPOSITE ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au ~~%~~ SHMC	opt Au % SHMC	ppb Au ~~%~~ Chemex AA	opt Au ~~%~~ Chemex	opt Au ~~%~~ Union	%	%		Aver. Au f.a. only
1174			tr	nf	-	-	-				-
1175			tr	nf	-	-	-				-
1176			tr	tr	-	-	-				-
1177			nf	nf	-	-	-				-
1178			tr	nf	-	-	-				-
1179			.010	.010	-	-	-				-
1180			.005	tr	-	-	-				-
1181			.005	.005	-	-	-				-
1182			.005	tr	-	-	-				-
1183			tr	.005	-	-	-				-
1184			nf	tr	-	-	-				-
1185			.010	.005	-	-	-				-
1186			tr	nf	-	-	-				-
1187			.007	.007	-	-	-				-

The C. F. Hoeckel Co. Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-223
SHEET 3 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" Rev. Circ.
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: oxide	silica	sericite	hornfels	FRACTURING	MINERAL py	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
140	weak										
145								DEADWOOD FM. - Ꞓd Hornfels sediments are pistachio green in patches & gray leaching.			
150								← weak silica veining.			
155	Trace							← multiple silica veining.			
160											
165	Moderate oxide										
170								Hornblende Diorite Td-Sill, qtz-sericite alteration is pervasive			
175								DEADWOOD FM. - Ꞓd Hornfels & cut by thin qtz veinlets.			
180	rare										
185								← 2-3% pyrite & red hematite oxide			
190								Hornblende Diorite Td-Sill, qtz-sericite is pervasive ← 3-5% pyrite & red hematite oxide			
195	Moderate oxide							DEADWOOD FM. - Ꞓd. Hornfels & cut by thin qtz veinlets			
200											
205											
210											

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver. Au f.a. only
1188			tr.	.010	–	–	–				–
1189			.010	.005	–	–	–				–
1190			nf	nf	–	–	–				–
1191			.013	.013	260	.012	–				–
1192			.020	.020	340	.018	–				–
1193			tr	nf	40	.005	–				–
1194			tr	.005	–	–	–				–
1195			.010	.010	–	–	–				–
1196			nf	nf	–	–	–				–
1197			nf	.005	–	–	–				–
1198			.005	.010	–	–	–				–
1199			–	–	–	–	–				–
1200			–	–	–	–	–				–
1301			nf	nf	–	–	–				–

The C. F. Haeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-223
SHEET 4 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" Rev. Circ.
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: Oxide	ALTERATION: Silica	ALTERATION: sericite	ALTERATION: hornfels	FRACTURING	MINERAL py	GEOLOGY	DESCRIPTIVE GEOLOGY
210								
215	Moderate Ox.							DEADWOOD FM - Ꞓd Hornfelsed shales-silts, cut by thin quartz veinlets that have bleached halos.
220								
225	Moderate							
230	Trace							
235	Moderate							
240								← 1-2% pyrite
245	Moderate							HORNBLENDE DIORITE - Td - SILL, pervasive qtz-ser. alteration
250								
255								DEADWOOD FM - Ꞓd
260	Trace							
265								
270								← 1-2% pyrite, on fractures
275	Mod.							
280								HORNBLENDE DIORITE - Td - SILL - altered qtz-ser.

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % chemex AA	opt Au % chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver Au f.a. only
			1302			.015	.015	-	-	-				-
			1303			nf	nf	-	-	-				-
			1304			tr	nf	-	-	-				-
			1305			nf	nf	-	-	-				-
			1306			nf	nf	-	-	-				-
			1307			nf	nf	-	-	-				-
			1308			.015	.015	-	-	-				-
			1309			.010	.010	-	-	-				-
			1310			nf	nf	-	-	-				-
			1311			nf	nf	-	-	-				-
			1312			nf	nf	-	-	-				-
			1313			tr	nf	-	-	-				-
			1314			.015	.015	-	-	-				-
			1315			nf	nf.	-	-	-				-

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH - 233
SHEET 5 OF 5
CONTRACTOR: Lang.
CORE SIZE: 5" rev. circ.
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'
ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:
COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION	ALTERATION: oxide	silica	sericite	hornfels	FRACTURING	MINERAL DO	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE. CORE REC'Y/HOLE:	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver. Au f.a. only
280								← 2-3% py DEADWOOD FM - Ꞓd Hornfelsed with thin veining.					1316			.007	.007	-	-	-				-
285													1317			nf	nf	-	-	-				-
290								Trace py					1318			nf.	nf.	-	-	-				-
295								← 2-3% Py					1319			tr	nf.	-	-	-				-
300								Bottom of Hole 300'																

SUMMARY: Hornblende diorite porphyry near top of hole preserves mostly fresh hornblende, but groundmass is pervasively altered by probable quartz-sericite. Interval near 35' lacks hornblende & may be either leaching or different rock type. Contact at 73-74' with Cambrian Deadwood Fm. unit consists mostly of hornfelsed and veined, fine-grained sediments. Weak iron-staining mostly along fractures. Thin sills (?) of hornblende diorite porphyry intrude the Deadwood; sills frequently contain pyrite. Deadwood siltstones or very fine quartzites are pyritized below ±270 feet.

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-224
SHEET 3 OF 3

CONTRACTOR: Lang
CORE SIZE: 5" rev. circ.
LOGGED BY:
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION: 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190

ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

Summary: Hole stopped @ 190' due to severe formation water problems. All drill cuttings are hornfels Deadwood Fm. tan to dull green color. No sulfides noticed

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver. Au f.a. only
1348			.015	.015	—	—	—				—
1349		→	.025	.025	300	.116	—				X
1350			.012	.012	120	—	—				—
1351			nf	nf	100	—	—				—
1352			.010	.010	60	—	—				—
1353			nf	nf	120	—	—				—
1354			.005	nf	100	—	—				—
1355			.018	.018	140	—	—				—
1356			.005	.005	100	—	—				—
1357			.010	.010	340	.010	—				—

The C. F. Hoecker Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-224
SHEET 2 OF 3

CONTRACTOR: Lang
CORE SIZE: 5" rev. circ.
LOGGED BY: R. Graichen
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE. CORE REC'Y/HOLE:	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
70–140									

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Unizn	%	%	COMPOSITE ASSAYS	Aver. Au f.a. only
1334			.060	.060	1600	.062	.040				.056
1335			.025	.025	240	–	.010				.020
1336			.015	.015	360	.026	–				–
1337			tr	nf	60	–	–				–
1338			.010	.010	300	–	–				–
1339			tr	nf.	40	–	–				–
1340			.005	.005	40	–	–				–
1341			.015	.015	340	.032	–				.026
1342			.040	.040	660	.030	.010				.030
1343			.035	.035	680	.040	.010				.030
1344			.020	.020	300	.022	.010				.018
1345			.020	.020	280	–	.030				.023
1346			tr	tr	100	–	–				–
1347			–	–	60	–	–				–

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-224
SHEET 1 OF 3

CONTRACTOR: Lang
CORE SIZE: 5" rotary circ.
LOGGED BY: R. Graichen
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION: -90
TOTAL DEPTH: 190'

COLLAR COORDINATES: N 748,320 E 1,125,290
STARTED:
COMPLETED:

COMMENTS: Summary page 3

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: oxide	silica	sericite	hornfels	FRACTURING	MINERAL	GEOLOGY
0–70							

DESCRIPTIVE GEOLOGY

DEADWOOD FM - Ꞓd
Hornfels, tan to dull green
no sulfides

No chips available below 40'
collect from wet rejects.

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS: Aver Au for entry
			1320			–	–	–	–	–			–
			1321			–	–	–	–	–			–
			1322			.012	.012	440	.018	–			–
			1323			.025	.030	260	–	–			.028
			1324			tr	nf	100	–	–			–
			1325			.005	tr	80	–	–			–
			1326			–	–	–	–	–			–
			1327			.015	.015	460	.016	–			–
			1328			.015	.015	540	.024				–
			1329			.025	.025	680	.028	.010			.022
			1330			.035	.035	780	.040	.020			.033
			1331			.035	.035	560	.020	.025			.029
			1332			.015	.015	520	.012	.010			.013
			1333			.035	.035	260	–	.010			.027

The C. F. Hoeckel Co. Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-225
SHEET 1 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" rev. circ.
LOGGED BY: R. Graichen
SCALE: 1" = 10'

ELEVATION: —
BEARING: —
INCLINATION: -90°
TOTAL DEPTH: 300'

COLLAR COORDINATES: N 747,940 E 1,125,460
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: oxide	silica	sericite	hornfels	FRACTURING	MINERAL py	GEOLOGY	DESCRIPTIVE GEOLOGY
0	strong							
5								No chips
10								
15	Mod.							← 5% pyrite, dissem.
20								← 1/2% py dissem
25	Weak							← 1/2% py vein
30								
35								
40								← 1-2% vein and disseminated pyrite 40'-95'. Trace of limonite on fractures
45								
50	Trace							strong pervasive silica alteration
55								
60								
65								
70								

HORNBLENDE DIORITE - Td

Uniform texture, porphyritic hornblende diorite. Hornblende is fresh and the groundmass is pervasively altered to very fine grained quartz-sericite (?) and disseminated pyrite.

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % chemex AA	opt Au % chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver Au f.a. only
			1358			.010	.010	–	–	–				–
			1359			.020	.020	–	–	–				–
			1360			.013	.013	–	–	–				–
			1361			nf	nf	–	–	–				–
			1362			nf	nf	–	–	–				–
			1363			tr	.005	–	–	–				–
			1364			nf	nf	–	–	–				–
			1365			nf	nf	–	–	–				–
			1366			nf	nf	–	–	–				–
			1367			.005	nf	–	–	–				–
			1368			nf	nf	–	–	–				–
			1369			nf	nf	–	–	–				–
			1370			nf	nf	–	–	–				–
			1371			nf	nf	–	–	–				–

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-225
SHEET 2 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" Rev. circ.
LOGGED BY:
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: oxide	silica	sericite	hornfels	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
70											
75								HORNBLENDE DIORITE - Td same description			
80											
85								Increase in silica flooding 85'-95'			
90	trace							Trace FeOX on fractures,			
95								contact			
100								DEADWOOD FORMATION - Ꞓd Black shales - silts altered to light and dark green hornfels. No pyrite present.			
105											
110								No chips collected below 110', collect from saved reject, They are frozen solid in December.			
115											
120											
125											
130											
135											
140											

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver Au f.a. only
1372			nf	nf	–	–	–				–
1373			nf	nf	–	–	–				–
1374			nf	nf	–	–	–				–
1375			nf	nf	–	–	–				–
1376			nf	nf	–	–	–				–
1377			nf	nf	–	–	–				–
1378			nf	nf	–	–	–				–
1379			nf	nf	–	–	–				–
1380			tr	tr	-10	–	–				–
1381			nf	nf	10	–	–				–
1382			tr	nf	-10	–	–				–
1383			nf	nf	20	–	–				–
1384			nf	nf	10	–	–				–
1385			.008	tr.	20	–	–				–

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: 12DH-225
SHEET 3 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" rev. circ
LOGGED BY:
SCALE: 1"=10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION	ALTERATION: oxide	ALTERATION: silica	ALTERATION: sericite	ALTERATION: hornfels	FRACTURING	MINERAL	GEOLOGY
140							
145							
150							
155							
160							
165							
170							
175							
180							
185							
190							
195							
200							
205							
210							

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Unizn	%	%	COMPOSITE ASSAYS	Aver. Au fire only
			1386			nf	nf	20	–	–				–
			1387			nf	nf	10	–	–				–
			1388			.010	.010	80	–	–				–
			1389			nf	tr	60	–	–				–
			1390			nf	nf	-10	–	–				–
			1391			tr	nf.	20	–	–				–
			1392			tr	nf.	10	–	–				–
			1393			nf.	nf	10	–	–				–
			1394			tr	nf.	20	–	–				–
			1395			.040	.040	150	–	–				.040
			1396			.010	.010	160	–	–				–
			1397			nf.	tr	40	–	–				–
			1398			nf.	nf.	20	–	–				–
			1399			.015	nf.	20						
			1400			nf.	nf	20						–

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-225
SHEET 4 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" rev. circ.
LOGGED BY: R. Graichen
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION	ALTERATION: oxide	silica	sericite	hornfels	FRACTURING	MINERAL	GEOLOGY
210							
215							
220							
225							
230							
235							
240							
245							
250							
255							
260							
265							
270							
275							
280							

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au / % SHMC	opt Au / % SHMC	ppb Au / % chem/AA	opt Au / % chem/	opt Au / % Union	%	%	COMPOSITE ASSAYS	Aver Au f.a. only
			1201			nf	nf	-10						
			1202			.005	nf	20						
			1203			.010	.010	40						
			1204			nf	nf	-10						
			1205			nf	nf	-10						
			1206			.020	nf	40						
			1207			nf	nf	-10						
			1208			.008	.008	120						
			1209			.035	.025	80						
			1210			.005	.005	-10						
			1211			tr	nf	60						
			1212			nf	nf	-10						
			1213			nf	nf	20						
			1214			nf	nf	10						

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-225
SHEET 5 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" rev. circ.
LOGGED BY: R. Graichen
SCALE: 1" = 10'

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: oxide	ALTERATION: silica	ALTERATION: sericite	ALTERATION: hornfels	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
280											
285											
290											
295											
300											

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % S+MC	opt Au % S+MC	ppb Au % AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver Au. f.a. only
1215			nf	nf	-10						
1216			nf	nf	360						
1217			tr	nf	60						
1218			nf	nf	-10						

The C. F. Hoerkel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-226
SHEET 1 OF 5
CONTRACTOR: Lang
CORE SIZE: 5" rev. circ.
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'
ELEVATION:
BEARING:
INCLINATION: -90
TOTAL DEPTH: 300'
COLLAR COORDINATES: N 746,650 E 1,127,740
STARTED:
COMPLETED:

SECTION

ALTERATION: oxide, silica, sericite, argillic

FRACTURING: strong

MINERAL %

GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

TRACHYTE PORPHYRY - Tfp.
Altered feldspar porphyry, no quartz phenocrysts present.
Alteration is pervasive, fine-grained quartz and probable sericite. Phenocysts of feldspar are indistinct. Grainey groundmass.

No chips, collect from rejects

DRILLING INTERVAL

% CORE RECOVERED

CORE SIZE

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver. Au f.a. only
1219			nf	nf	-10	-	-				-
1220			.005	tr	-10	-	-				-
1221			nf	nf	60	-	-				-
1222			nf	tr	20	-	-				-
1223			.005	nf	20	-	-				-
1224			.015	.015	160	-	-				-
1225			nf	.005	40	-	-				-
1226			tr	nf	20	-	-				-
1227			nf	nf	20	-	-				-
1228			tr	.005	60	-	-				-
1229			nf	nf	40	-	-				-
1230			tr	nf	10	-	-				-
1231			.003	.003	-10	-	-				-
1232			nf	tr	-10	-	-				-

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-226
SHEET 2 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" Rev. Circ
LOGGED BY: C. Rautman
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: oxide	ALTERATION: silica	ALTERATION: sericite	ALTERATION: argillic	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY
70								
75								
80								
85								TRACHYTE PORPHYRY - Tfp. same description
90								
95	-- Moderate --							
100								
105								
110								
115								
120								
125								
130								
135								
140								

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % chemex AA	opt Au % chemex	opt Au % Union	%	%	COMPOSITE ASSAYS:	COMPOSITE ASSAYS: Aver Au fa. only
			1233			tr	nf	60	-	-				-
			1234			.005	.005	20	-	-				-
			1235			nf	nf	60	-	-				-
			1236			.010	.010	40	-	-				-
			1237			.008	.008	60	-	-				-
			1238			.010	.010	80	-	-				-
			1239			.005	nf	20	-	-				-
			1240			.010	.005	60	-	-				-
			1241			.008	.008	20	-	-				-
			1242			tr	nf	-	-	-				-
			1243			.003	.003	10	.010	-				-
			1244			.035	.035	240	.020	-				.030
			1245			nf	nf	180	.014	-				-
			1246			.025	.025	160	.012	-				.031

CORE SAMPLE INTERVALS & ASSAYS

The C. F. Hoerbel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-226
SHEET 3 OF 5

CONTRACTOR: Hang
CORE SIZE: 5" rev. circ.
LOGGED BY: C. Rautman
SCALE: 1"=10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION	ALTERATION: oxide	ALTERATION: silica	ALTERATION: sericite	ALTERATION: argillic	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY
140								
145								
150								
155								
160	mod.							
165								TRACHYTE PORPHYRY - Ttp. Light gray, fine-grained, sugary texture. Pervasive alteration, quartz-sericite(?) blurs phenocryst outlines. Oxidation of sulfides occurs
170	trace							
175								← 2-3% pyrite mostly along fractures.
180								
185								
190	trace							← 2-5% pyrite
195								
200	trace							
205								← 5-10% pyrite
210								

AVE. CORE REC'Y/HOLE:

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver Au f.a. only
			1247			.003	nf	20	.012	–				–
			1248			nf	nf	10	–	–				–
			1249			.020	.020	60	–	–				–
			1250			.005	nf	60	–	–				–
			1251			.012	.012	60	–	–				–
			1252			.010	.005	140	–	–				–
			1253			nf	nf	40	–	–				–
			1254			nf	nf	40	–	–				–
			1255			nf	tr	40	–	–				–
			1256			tr	.010	40	.006	–				–
			1257			.020	.020	60	.006	–				–
			1258			nf	nf	20	.005	–				–
			1259			nf	nf	10	–	–				–
			1260			.010	.010	80	–	–				–

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH-226
SHEET 4 OF 5

CONTRACTOR: Lang
CORE SIZE: 5" Rev. Circ.
LOGGED BY: C Rautman
SCALE: 1"=10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION

ALTERATION: oxide, silica, sericite, argillic

FRACTURING

MINERAL: py

GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280

trace

— 3-5% py

TRACHYTE PORPHYRY - Tzp.
Same pervasive alteration, strong pyrite 1-5%.

← Some PЄ schist fragments

Less intense alteration below 230 feet. Kspar phenocrysts quite distinct. Some local chloritic zones.
Disseminated blue-green mineral 215'-240' and gray-black mineral to 300 feet.

← quartz veins.

— Tr. chalcopyrite

DRILLING INTERVAL

% CORE RECOVERED

CORE SIZE

CORE SAMPLE INTERVALS & ASSAYS

COMPOSITE ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%		Aver Au f.a. only
1261			.010	.010	100	-	-				-
1262			nf	nf	80	-	-				-
1263			nf	nf	20	-	-				-
1264			nf	nf	40	-	-				-
1265			nf	nf	10	-	-				-
1266			nf	nf	40	-	-				-
1267			tr	.005	20	-	-				-
1268			tr	nf	20	-	-				-
1269			tr	nf	40	-	-				-
1270			.010	.010	60	-	-				-
1271			nf	nf	40	-	-				-
1272			tr	nf	20	-	-				-
1273			.008	.008	40	-	-				-
1274			tr	tr	100	-	-				-

The C. F. Huechel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: RDH - 226
SHEET 5 OF 5

CONTRACTOR: Long
CORE SIZE: 5" rev. circ
LOGGED BY: C. Rautman
SCALE: 1" = 10'

ELEVATION:
BEARING:
INCLINATION:
TOTAL DEPTH:

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

SECTION	ALTERATION: oxide	ALTERATION: silica	ALTERATION: sericite	ALTERATION: argillic	FRACTURING	MINERAL	GEOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	AVE. CORE REC'Y/HOLE:	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE
280												
285								TRACHYTE PORPHYRY - Tep.				
290								← Tr. chalcopyrite				
295												
300								Bottom of Hole 300'				

CORE SAMPLE INTERVALS & ASSAYS: SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED %	opt Au % SHMC	opt Au % SHMC	ppb Au % Chemex AA	opt Au % Chemex	opt Au % Union	%	%	COMPOSITE ASSAYS	Aver. Au for entry
1275			.015	.015	220	–	–				–
1276			.012	.012	180	–	–				–
1277			.025	.025	560	–	–				–
1278			.003	.003	320	–	–				–

The C. F. Mueller Co., Denver