PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 1 OF 12
2/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

ELEVATION:
BEARING: —
INCLINATION: -90
TOTAL DEPTH: 800

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

ALTERATION: argillic, silicic

FRACTURING

MINERAL py

GEOLOGY

SECTION: 0, 10, 20, 30, 40, 50, 60, 70

DESCRIPTIVE GEOLOGY

No Core

Sanidine Rhyolite Porphyry - Tsrp

Medium-grained rhyolite porphyry, 60%+ feldspar phenos. altered to clay mins. (1-5mm); 10% large euhedral sanidine phenos. (1-3 cm) w/ clay alt. rims; 2-5% qtz phenos (2-3mm). ?sericite (green) replaces some feldspars.

Oxide zone - no pyrite, mod. heavy limonitic Fe stain esp. on fractures. Mn (?) on fracts. as well. Fe-ox in porosity probably orig. pyrite.

Silicification widespread but only mod. strong.

← clay gouge, ±45° CA

← frags. of foliated pC rk, incl qtzite, schist

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED % RQD	Au % opt	Ag % opt	%	%	%	%	%	COMPOSITE ASSAYS	
	5.4		101			2.0 ppm	7.5 ppm							
15	9.2		102		40	0.1 ppm	3.1 ppm							
25	10.1		103		66	0.1 ppm	2.6 ppm							
35	9.7		104		51	0.2 ppm	1.3 ppm							
45	10.6		105		83	0.2 ppm	0.8 ppm							
55	10.3		106		96	0.2 ppm	1.1 ppm							
64	10.4		107		104	0.1 ppm	0.9 ppm							

82 CORE SAMPLE INTERVALS & ASSAYS

The C. F. Haeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 2 OF 12 2/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

ELEVATION: —
BEARING: —
INCLINATION: -90
TOTAL DEPTH: 800

COLLAR COORDINATES: N E
STARTED:
COMPLETED:

SECTION: 70, 80, 90, 100, 110, 120, 130, 140

ALTERATION: argillic, silicic

FRACTURING

MINERAL: py

GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

Sanidine Rhyolite Porphyry - Tsrp

Sanidine phenos, intensely altered 70-88' (±) - clay (incl. green sericite) ± Fe-ox. Groundmass phenos alt. to clay throughout.

Mod. large (3-5cm) frags. - highly alt. to clay + Fe-ox. Freq. show clay-rich reaction rim

contact

Intrusion Breccia - Tsrp Matrix

Ang. - subang. fragments (2-7cm) of pℰ, ?ℰ, + intrusive rk., all highly altered (clay + sericite ± Fe-ox.). schist + qtzite + qtz + porph.

Matrix is Tsrp w/ alt feldspar phenos, as above

Heavy Fe-ox stain w/ local Mn coatings on fracts. Fe is mostly jarosite. Red hematite 102-105'

Breccia frags. decrease in abundance

contact?

Sanidine Rhyolite Porphyry - Tsrp

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au ~~%~~ opt	Ag ~~%~~ opt	%	%	%	%	%	COMPOSITE ASSAYS	
74	10.6		108		95	0.3ppm	1.9ppm							
85	9.7		109		82	1.5ppm	1.2ppm							
95	9.5		110		66	0.1ppm	0.7ppm							
105	10.3		111		84	0.1 ppm	1.3ppm							
113 – 117	10.4		112		81	0.6ppm	1.8ppm							
125	9.4		113		76	0.2ppm	1.2ppm							
135	10.7		114		26	0.1ppm	1.1ppm							

CORE SAMPLE INTERVALS & ASSAYS

The C. F. Mueller Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 3 OF 12
2/72

CONTRACTOR: Bayles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

ELEVATION: —
BEARING: —
INCLINATION: -90
TOTAL DEPTH: 800

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

SECTION: 140, 150, 160, 170, 180, 190, 200, 210

ALTERATION: argillic, silicic

FRACTURING

MINERAL

GEOLOGY

Sanidine Rhyolite Porphyry - Tsrp

Mod. crowded rhyolite porphyry. Large phenos. (15-20%) more abnt. than nearer surface. Matrix feldspars alt. to clay ± sericite; clay rims on large K-spars ± sericite

Alteration is zoned outward from fractures →
Heavy jarosite in fractures — rusty jarosite stained rock adj. to fracts. — yellow green sericitic alt. — white clay alt. of feldspars. Some Mn stain.

Sanidine Rhyolite dike — pronounced textural change fine-grained, pheno. poor, but contains large K-spars as above (quite unaltered)

textural contact @ 50° C.A.

Dike, similar to above, ? fewer large phenos

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTIMATED % RQD	Au % opt	Ag % opt	%	%	%	%	%	COMPOSITE ASSAYS	
145	9.4		115		32	0.2ppm	1.4ppm							
153, 155			116		57	0.1ppm	0.5ppm							
165			117		67	1.4ppm	0.5ppm							
175			118		89	<0.1ppm	0.5ppm							
185			119		79	1.7ppm	0.5ppm							
195			120		71	0.7ppm	0.8ppm							
205			121		74	3.2ppm	0.5ppm							

CORE SAMPLE INTERVALS & ASSAYS

The C. F. Haeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 4 OF 12
2/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

ELEVATION:
BEARING: —
INCLINATION: -90
TOTAL DEPTH: 800

ALTERATION: argillic, silicic

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

Sanidine Rhyolite Porphyry - Tsrp

Rhyolite porphyry with 60%+ feldspar phenos, 2-5mm and 10-15% K-spar phenos, 5mm-3cm, plus 2-5% qtz phenos 1-5mm. Fine-grained groundmass showing varying degrees of silica flooding. Small phenos, generally altered to clay ± sericite. Large phenos. zoned, + exhibit clay rims ± sericite

No pyrite preserved - all oxide zone

Iron staining locally quite intense, may be hematite or jarosite

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au ~~%~~ opt	Au ~~%~~ opt	%	%	%	%	%	COMPOSITE ASSAYS	
215		NC	122		55	8.1ppm	0.9ppm							
222						0.1ppm	0.6ppm							
225			123		53									
						0.2ppm	0.5ppm							
235			124		72									
						0.2ppm	0.5ppm							
245			125		79									
						17.3ppm	0.8ppm							
253			126		67									
						0.8ppm	0.5ppm							
263			127		86									
						1.0ppm	0.6ppm							
273			128		79									

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 5 OF 12
2/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

ELEVATION:
BEARING: ——
INCLINATION: -90
TOTAL DEPTH: 800

SECTION: 280, 290, 300, 310, 320, 330, 340, 350

ALTERATION: argillic, silicic

FRACTURING

MINERAL

GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

Sanidine Rhyolite Porphyry - Tsrp

Rock badly fractured, iron-stained; small feldspars mostly altered to clay, clay rims on largely fresh large K-spar

Jarosite ± Mn-stain on essentially all fracts.

← small slicks on clay - 20° C.A.
← Fe-ox clay gouge, no orientation

Apparent textural change at ± 311-338 → Rock appears more siliceous, possibly finer grained, + w/ fewer phenos. Still can locate large sanidines, small feldspars, but overall appearance is different. These could be called dikes or chill zones (?) but cannot find any definite contacts. Vague streaming or parallelism texture at ± 45° C.A. Intensity of alteration (or textural change) varies - shown by "silica alteration" column.

← pl qtz frag.
Sparse frags. of altered schist

Pyrite preserved - ox. only along fracts.

DRILLING INTERVAL: 283, 293, 303, 313, 323, 333, 343

% CORE RECOVERED

CORE SIZE

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au ~~%~~ opt	Ag ~~%~~ opt	%	%	%	%	%
129		56	1.1 ppm	0.8 ppm					
130		64	2.2 ppm	0.8 ppm					
131		60	5.2 ppm	0.9 ppm					
132		54	6.3 ppm	1.1 ppm					
133		69	1.0 ppm	0.7 ppm					
134		74	0.2 ppm	0.8 ppm					
135		60	<0.1 ppm	0.5 ppm					

COMPOSITE ASSAYS

The C. F. Hoeckel Co. Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 6 OF 12
7/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

COLLAR COORDINATES: N E
ELEVATION:
STARTED:
COMPLETED:
BEARING:
INCLINATION: -90
TOTAL DEPTH: 800

ALTERATION: argillic, silicic
FRACTURING
MINERAL py
GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

chlorite-rich fracture coating

Sanidine Rhyolite Porphyry – Tsrp

Alteration of feldspar phenos., esp. large K-spar phenos, noticibly less than above. V. heavy jarosite along some fracts, almost certainly alt. of py. Yellow-green sericite coats some fracts.

1" gge 70°CA

Pyrite quite low – <1% until ± 373'; below, py largely restricted to fractures; 1-2% in bulk rock

← Fe-ox stained clay gouge

Breccia fragments of dom. pℰ rx irregularly dist. from 375 down; frags. generally 1-5cm, all are altered, schists completely destroyed

← 6" shear zone – 20° C.A.

Breccia frags. become more abnt. + smaller 397-390; incl. pℰ qtz

contact

← ?2' crackle zone filled by py. Crackling dies out to simple veining by 395'

Trachyte Porphyry – Ttp

Fine to med.-grained feldspar porphyry – phenos. 1-5mm in part alt. to clay. Phenos are 40-60% of rock

Pyrite 2-3% disseminated; also as veinlets 1-3mm across, partly alt to jarosite or hematite. Below 410', py as clots (10-15% py) + veinlets alt. to + pseudomorphed by hematite. Fluorite is disseminated + forms veinlets assoc w/ these pyrite occurrences.

Sparse 5-20 mm incls of pℰ schist (altered), qtzite + qtz

← Intrusion breccia of highly alt. pℰ + ℰ Deadwood qtzite

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au ~~%~~ opt	Ag ~~%~~ opt	%	%	%	%	%	COMPOSITE ASSAYS	
353			136		54	0.5ppm	0.6ppm							
368			137		46	0.2ppm	0.6ppm							
375			138		61	<0.1ppm	0.9ppm							
385		NC	139		52	<0.1ppm	0.7ppm							
395			140		91	0.1ppm	1.7ppm							
405			141		82	0.1ppm	0.9ppm							
415			142		78	0.2ppm	1.0ppm							

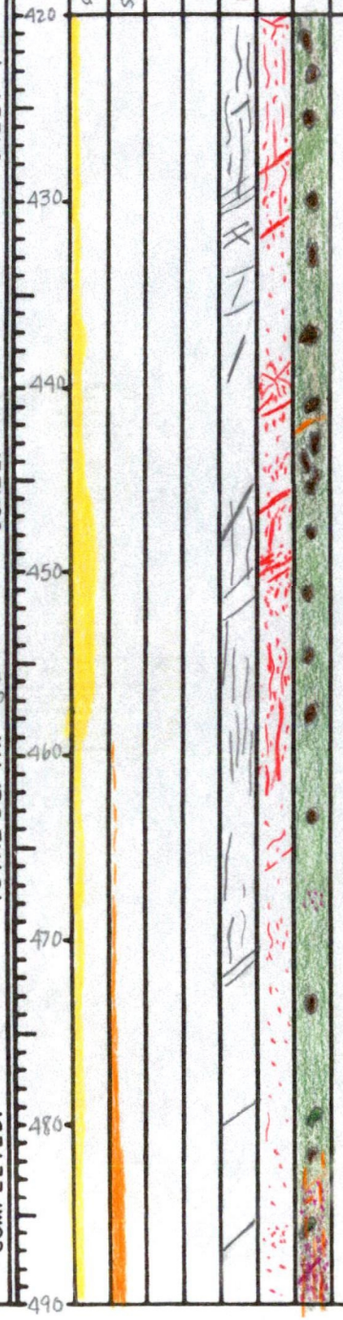
The C. F. Hoeckel Co. Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 7 OF 12
7/82

CONTRACTOR: Bayles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1"=10'

ELEVATION:
BEARING:
INCLINATION: -90
TOTAL DEPTH: 800

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:



COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

Trachyte Porphyry - Ttp

Fine to med.-grained feldspar porphyry; phenos 1-5mm, largely altered to clay. Rock contains varying quantity of incls. of pЄ schist + qtzite (mostly altered).

Throughout, rock has been fractured (crackled?) and healed with sulphide veinlets, now heavily alt. to hematite + lesser jarosite. Below 465' (±), rock appears more crackled + healed with siliceous veinlets - not quite stockwork, but locally approaching this state. Dom. direction of this fract. is ~11 C.A. Siliceous veinlets assoc. w/ purple fluorite + pyrite

Much remobilized Fe-ox above 465', esp immed. adj. to pyrite veining. Some chlorite assoc. w/ alt. of py

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au ~~%~~ opt	Ag ~~%~~ opt	%	%	%	%	%	COMPOSITE ASSAYS	
425			143		70	0.1ppm	1.5ppm							
435			144		54	0.2ppm	1.5ppm							
445			145		79	0.1ppm	2.3ppm							
455			146		94	0.1ppm	0.9ppm							
465			147		84	0.3ppm	3.7ppm							
475			148		96	0.3ppm	8.5ppm							
485			149		84	0.2ppm	1.6ppm							

CORE SAMPLE INTERVALS & ASSAYS

The C. F. Hoeckel Co. Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 8 OF 12
2/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1"=10'

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

ELEVATION:
BEARING: —
INCLINATION: -90
TOTAL DEPTH: 800

ALTERATION: argillic, silicic

FRACTURING

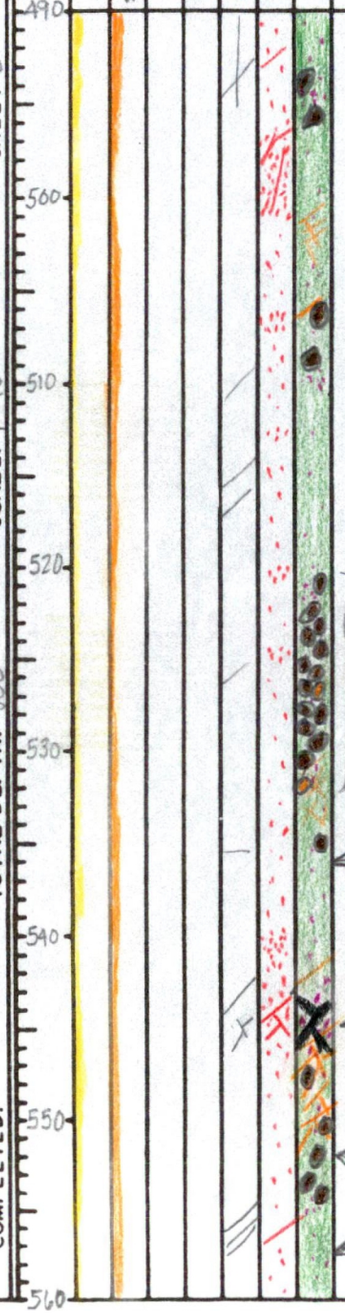
MINERAL PY

GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY



Trachyte Porphyry - Ttp

Feldspar porphyry — Rock is silicified by a stockwork of thin (.5-2 mm) qtz veinlets. Feldspar phenos. are fractured by qtz veining. Stockwork particularly well developed at 500-505', 547-552' (veins to 5mm) Larger feldspar phenos. partially alt. to clay (± sericite), small phenos + grndmass feldspars quite fresh + glassy

Limit of severe oxidation

Zone of mod. crowded incls. of digested pC qtzite + schist. also jumbled porphyry frags. All rk types .5-3cm. Appear to be fewer qtz veinlets here.

Dolomite rhombs assoc. w/ pyrite + fluorite

Irreg. veinlets and void fillings of magnetite (replacing py?) Some hematite here as alt. of py

Phenos slightly larger + more altered to clay here - ? jumbled clasts of porphyry?

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au % opt	Ag % opt	%	%	%	%	%	COMPOSITE ASSAYS	
495			150		82	4.1ppm	3.0ppm							
505			151		97	0.6ppm	2.9ppm							
515			152		90	0.5ppm	1.8ppm							
525			153		96	0.2ppm	1.0ppm							
535			154		90	0.3ppm	0.8ppm							
545			155		97	1.4ppm	1.7ppm							
555			156		74	0.3ppm	1.2ppm							

The C. F. Hoeckel Co. Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 9 OF 12 2/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1"=10'

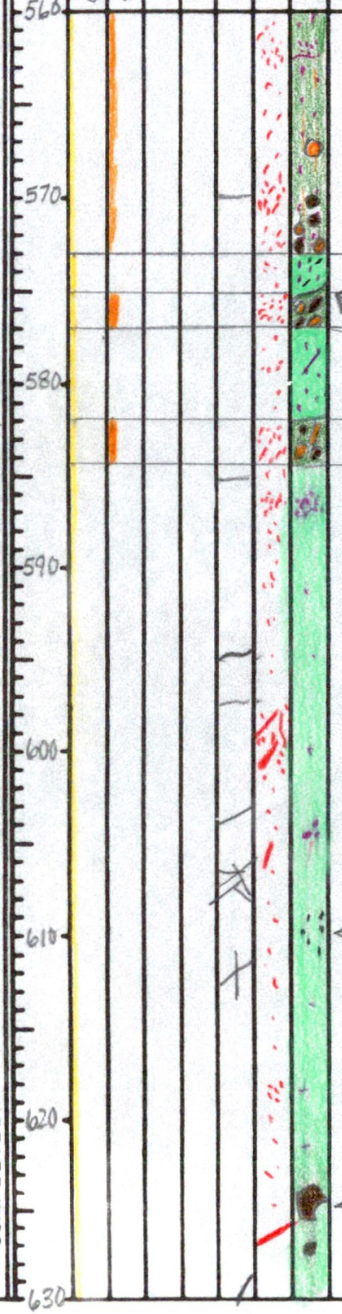
ELEVATION:
BEARING: —
INCLINATION: -90
TOTAL DEPTH: 800

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION | ALTERATION (argillic, silicic) | FRACTURING | MINERAL py | GEOLOGY



DESCRIPTIVE GEOLOGY

Trachyte Porphyry – Ttp

Qtz-flooded Ttp w/ diss. but somewhat clotted py + fluorite

Dom. orientation of qtz veinlets is ±11 C.A.

Breccia consists of highly alt pℓ schist plus qtzite + vein qtz frags

contact

diss. mt replacing py — contact — Tsrp dike w/sparse py + fluorite

contact — Ttp breccia

irreg contact @ ±70° C.A.

Tsrp

contact

contact — Ttp breccia

Sanidine Rhyolite Porphyry – Tsrp

Crowded rhyolite porphyry – 60-70% feldspar phenos. 1-5mm; 10-15% large K-spar phenos 1-4cm; 5% qtz phenos 2-5mm in a sileous, slightly propylitized grndmass. 1-2% pyrite, 1% diss fluorite – both more abnt in local clots and/or veinlets

Rock quite fresh, but w/ slight green tinge.

← diss. mt. Large K-spar phenos. are lt. pink

Local chloritic (dark green) alt. adj. to py veinlets

Trace diss. magnetite (alt. of py at 573-575')

← 4" incl. of sericitized pℓ schist

DRILLING INTERVAL: 565, 575, 585, 595, 605, 615, 625

% CORE RECOVERED | CORE SIZE

CORE SAMPLE INTERVALS & ASSAYS

SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au ~~%~~ opt	Ag ~~%~~ opt	%	%	%	%	%	COMPOSITE ASSAYS
157		80	0.5ppm	1.5ppm						
158		91	0.1ppm	0.9ppm						
159		96	0.1ppm	0.7ppm						
160		91	0.1ppm	0.5ppm						
161		81	<0.1ppm	0.5ppm						
162		82	<0.1ppm	0.4ppm						
163		80	<0.1ppm	0.9ppm						

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 10 OF 12 2/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

ELEVATION:
BEARING: —
INCLINATION: -90
TOTAL DEPTH: 800

COLLAR COORDINATES:
N E
STARTED:
COMPLETED:

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: argillic	ALTERATION: silicic	FRACTURING	MINERAL	GEOLOGY	DESCRIPTIVE GEOLOGY	DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au ~~%~~ opt	Ag ~~%~~ opt	%	%	%	%	%	COMPOSITE ASSAYS
630													0.1ppm	0.7ppm						
							635			164		91								
640						Sanidine Rhyolite Porphyry - Tsrp							<0.1ppm	0.9ppm						
						RK is quite fresh - only traces of argillization	645			165		83								
650						There is a light greenish tinge to rock when wet (= weak propyllitic alt.? or sericitization of some feldspars?)							<0.1ppm	0.4ppm						
						V. competent rock	655			166		84								
660						Chloritic alt. zone to 1cm wide adj to pyrite veins, pyrite partly alt to jarosite. Diss. py (1%) throughout. ? chalcocite on some py.							<0.1ppm	0.5ppm						
						weak clay rims on some large K-sparphenos.	665			167		93								
670						Rare altered pЄ frags.							<0.1ppm	0.6ppm						
							675			168		93								
680													<0.1ppm	0.4ppm						
							685			169		93								
690													<0.1ppm	0.6ppm						
							695			170		98								
700																				

The C. F. Hoeckel Co., Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 11 OF 12 2/82

CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1" = 10'

COLLAR COORDINATES: ELEVATION:
N E BEARING: —
STARTED: INCLINATION: -90
COMPLETED: TOTAL DEPTH: 800

COMMENTS:

AVE. CORE REC'Y/HOLE:

SECTION	ALTERATION: argillic	ALTERATION: silicic	ALTERATION:	ALTERATION: chloritic (?)	FRACTURING	MINERAL py	GEOLOGY
700							
710							
720							
730							
740							
750							
760							
770							

DESCRIPTIVE GEOLOGY

Sanidine Rhyolite Porphyry - Tsrp

Mostly fresh, competent Tsrp w/ slight argillic alt. Also ? propyllitic alt. evidenced by overall greenish-white cast to rock

1-2% dissem. pyrite plus pyrite veins at various intervals and orientations. Vein pyrite partly alt. to jarosite plus chlorite

Possibly trace mt or fluorite

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	~~ESTIMATED %~~ RQD	Au ~~%~~ opt	Ag ~~%~~ opt	%	%	%	%	%	COMPOSITE ASSAYS	
705			171		74	<0.1ppm	0.6ppm							
715			172		85	<0.1ppm	0.9ppm							
725			173		88	<0.1ppm	0.5ppm							
735			174		91	<0.1ppm	0.5ppm							
745			175		97	<0.1ppm	0.4ppm							
755			176		78	<0.1ppm	0.6ppm							
765			177		83	<0.1ppm	0.6ppm							

CORE SAMPLE INTERVALS & ASSAYS

The C. F. Hoeckel Co. Denver

PROJECT: Gilt Edge
LOCATION: Deadwood, S.D.
HOLE NO: DDH-44
SHEET 12 OF 12 2/82
CONTRACTOR: Boyles Bros.
CORE SIZE: NC
LOGGED BY: C.A. Rautman
SCALE: 1"=10'

COLLAR COORDINATES: ELEVATION:
N E BEARING: —
STARTED: INCLINATION: -90
COMPLETED: TOTAL DEPTH: 800

ALTERATION: argillic, silicic, chloritic
FRACTURING
MINERAL: py
GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

DESCRIPTIVE GEOLOGY

770
780
790
800

weak blue-green Cu(?) stain

Sanidine Rhyolite Porphyry - Tsrp

Lt. greenish cast = weak propyllitic alt (?)

Py veins assoc w/ dk green chl.(?) alt. + some jarosite
Diss py only slightly tarnished if at all.

Incls. of alt. pℓ schist 1-2 cm generally; 7cm max.

E.O.H.

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SAMPLE INTERVAL	% REC'Y./SAMP. INT.	ESTI-MATED % RQD	Au % opt	Ag % opt	%	%	%	%	%	COMPOSITE ASSAYS	
775			178		73	<0.1ppm	0.6ppm							
785			179		92	<0.1ppm	0.8 ppm							
795			180		95	<0.1ppm	1.0ppm							
800														

CORE SAMPLE INTERVALS & ASSAYS

The C. F. Mueller Co. Denver

DDH-44

Core Size	Interval	Block	Measured to Interval	RQD	Rock	Alteration Mineralization
					0-5' No recovery	
NC	0-10		5.4	0	17 Hill type	
	20	15	9.2	40	"Granite" porphyry	Rare fresh pyrite,
	30	25	10.1	66	(qtz latite por)	limonite on
	40	35	9.7	51	with abundant	fractures + fine
	50	45	10.6	83	< 1/4" plagioclase +	diss. voids
	50-60	55	10.3	96	common > 1/2" kspar	Mild clay alt.
	70	64	10.4	104	phenos. Intermittently	of plag phenos
	80	74	10.6	95	brecciated + silicified	
	90	85	9.7	82		
	100	95	9.5	66		
	100-110	113 117	10.3	84	106 ——	
	120		10.4	81	Strongly brecciated	
	130	125	9.4	76	125 ——	
	140	135	10.7	26		
	150	145	9.4 / 4.2	32 / 30		
	150-160	153				
	170					
	180					
	190					
	200					
	200-210					
	220					
	230					
	290					
	250					

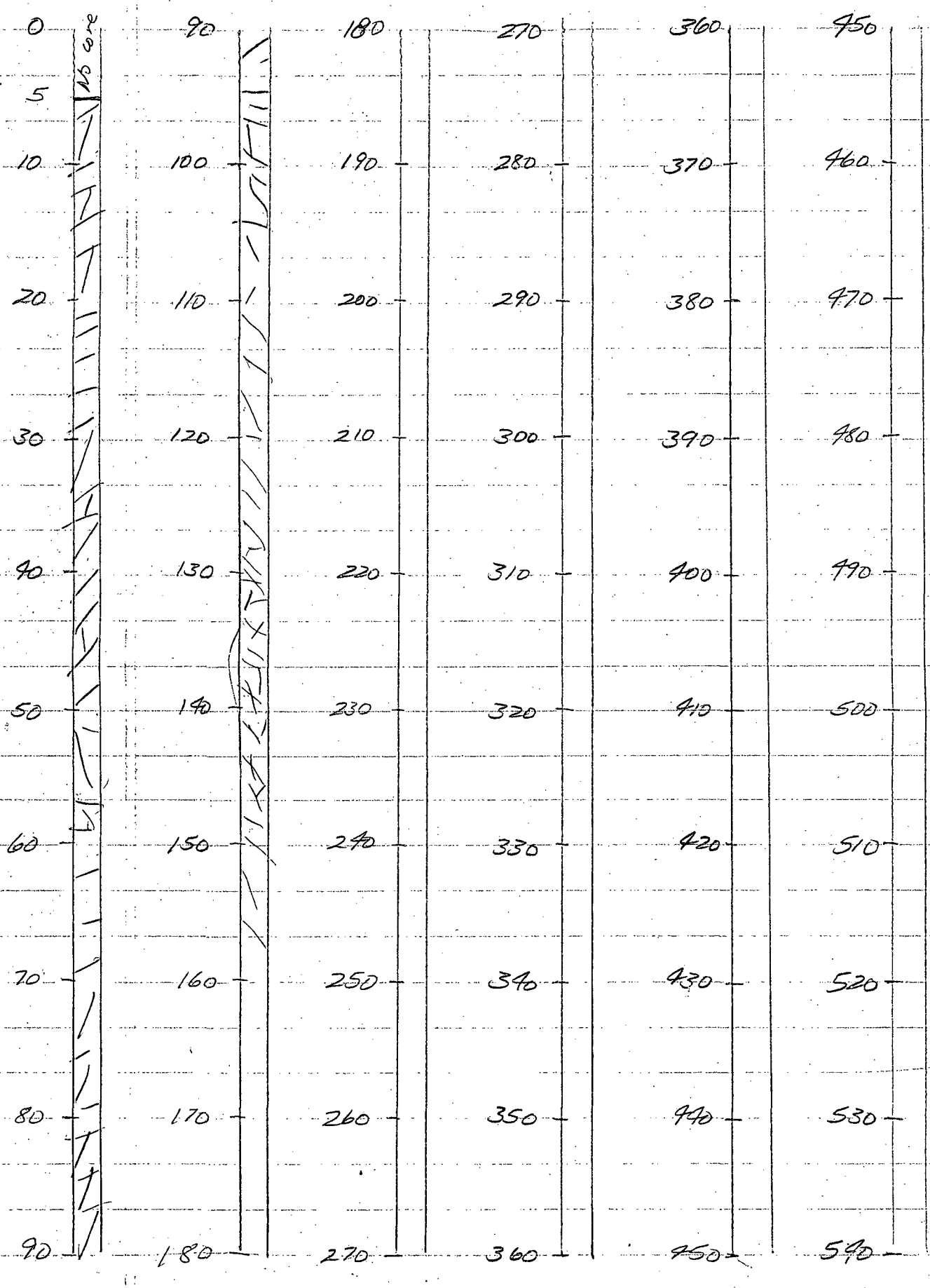
DDH-44

Core Size	Interval	Block	Measured Interval	RQD	Rock	Alteration Mineralization
	250 - 260					
	270					
	280					
	290					
	300					
	300 - 310					
	320					
	330					
	340					
	350					
	350 - 360					
	370					
	380					
	390					
	400					
	400 - 410					
	420					
	430					
	440					
	450					
	450 - 460					
	470					
	480					
	490					
	500					

DDH - 44

Core Size	Interval	Block	Measured Interval	RQD	Rock	Alteration Mineralization
	500 - 510					
	520					
	530					
	540					
	550					
	550 - 560					
	570					
	580					
	590					
	600					
	600 - 610					
	620					
	630					
	640					
	650					
	650 - 660					
	670					
	680					
	690					
	700					
	700 - 710					
	720					
	730					
	740					
	750					

DDH - 44


No core
0
5
10
20
30
40
50
60
70
80
90
90
100
110
120
130
140
150
160
170
180
180
190
200
210
220
230
240
250
260
270
270
280
290
300
310
320
330
340
350
360
360
370
380
390
400
410
420
430
440
450
450
460
470
480
490
500
510
520
530
540

DDH - 44

540 630

550 640

560 650

570 660

580 670

590 680

600 690

610 700

620

630

Logged by: RJM DDH-44 Page 1 of 5

Box Number	Core Size	Interval on core box	Block(s) in core box	Measured Interval	RQD 10' interval / RQD for interval	Rock Type	Alteration & Mineralization
16	NC	145-154	153	? - 154 (4)	150-160 / .568	GRANITE (Qtz Latite Porphyry?)	Limonitic staining along fractures. Sanidine pheocrysts rimmed by kaolinite? plagioclase altered to kaolinite? often with a light green (chlorite?) core. 178.6 to 186.8 Limonite stains altered plag. and rims on sanidine
17		154-163	155	154 (4) - 162 (11)	160-170 / .67		
18		163-172	165	162 (11) - 171 (10)	170-180 / .889	≈ 195 - 210 (6) Rhyolite porphyry.	
19		172-181	175	171 (10) - 180 (11)	180-190 / .794	Granite (Qtz Latite Porphyry?)	
20		181-191	185	180 (11) - 190 (10)	190-200 / .71		
21		191-200	195	190 (10) - 199 (9)	200-210 / .74		
22		200-209	205	199 (9) - 209 (2)	210-220 / .55		
23		209-219	215	209 (7) - 218 (10)	220-230 / .53		
24		219-228	222 225	218 (10) - 228 (6)	230-240 / .72		
25		228-237	235	228 (6) - 237 (7)	240-250 / .79	229' to 232' Granite has Piet Frags.	
26		237-247	245	237 (7) - 247	250-260 / .67	Granite (Qtz Latite Porphyry?)	Limonite along fractures. Feldspars altered to kaolin. Vugs filled with euhedral qtz.
27		247-256	253	247 - 255 (5)	260-270 / .86		
28		256-264	263	255 (5) - 264 (2)	270-280 / .79		
29		264-273	273	264 (2) - 273	280-290 / .564		
30		273-282	—	273 - 281 (10)	290-300 / .638		
31		282-291	283	281 (10) - 290 (10)	300-310 / .597		

Logged by: RJM | DDH-44 | Page 2 of 5

Box Number	Core Size	Interval on core box	Block(s) core ≤ box	Measured Interval	RQD 10' interval / RQD for interval	Rock Type	Alteration & Mineralization
32	NC	291-299	293	290 10 - 298 11	310-320 / .535	Granite Porphyry.	
33		299-308	303	298 11 - 308 4	320-330 / .686		308 - 314' altered feldspars stained by limonite vugs filled w/ euhedral qtz.
34		308-317	313	308 4 - 317	330-340 / .235		
35		317-326	323	317 - 225 3	340-350 / .595		
36		326-335	333	225 3 - 334 3	350-360 / .535		334' - 343 altered feldspars stained by limonite.
37		335-343	343	334 3 - 343	360-370 / .46	Occasional Pret Fragments Granite Porphyry	
38		343-352	—	343-352 2	370-380 / .61		343' sphalerite? 344' start seeing small pyrite cubes
39		352-361	353	352 2 - 361	380-390 / .52		Limonite staining restricted to fractures
40		361-370	368	361 - 370 4	390-400 / .91		Some silicification? along fractures no fresh pyrite noticed in fractures with Limonite.
41		370-380	375	370 4 - 380 1	400-410 / .82		Some feldspars are altered to light green material large sanidine phenocrysts seem relatively unaffected with exception of rims of kaolin or light green mineral.
42		380-389	385	380 1 - 389 2	410-420 / .78		
43		389-398	395	389 2 - 398 4	420-430 / .695	Starting at approx. 380' porphyry becoming brecciated and highly fractured	Pyrite increases at approx. 380' where rock becoming brecciated.
44		398-408	405	398 4 - 407 10	430-440 / .535	390' gradational contact at 390' between trachyte and granite.	402' - 405 fluorite and pyrite up to 10% of rock along fractures, 411' to 415' abundant fluorite and pyrite
45		408-417	415	407 10 - 417 8	440-450 / .79		
46		417-427	425	417 8 - 427	450-460 / .935	Trachyte with Pret fragments to 490'	415' to 455' Epidote and/or chlorite (olivine-green coating) in fractures
47		427-437	435	427 - 437 1	460-470 / .845		fluorite & pyrite common

Logged by: Rfm | DDH-44 | Page 3 of 5

Box Number	Core size	Interval on core box	Block(s) in core box	Measured Interval	RQD 10' interval / RQD for Interval	Rock Type	Alteration & Mineralization
48	NC	437-446	445	437 1 - 446 1	470-480 / .955	Trachyte with Pret fragments to 490'	Brecciation seems to give way to "stock work" fracturing fractures filled with fluorite & pyrite mostly.
49	NC	446-455	455	446 1 - 455	480-490 / .839		
50	NC	455-464	—	455 - 464 1	490-500 / .82		Minor epidote or chlorite coating on fractures to 495. Tend to get limonite, instead or limonite epidote and/or chlorite mixed to 500' ± 6"
51	NC	464-473	465	464 1 - 473 2	500-510 / .97		
52	NC	473-482	475	473 2 - 482 8	510-520 / .90		
53	NC	482-491	485	482 8 - 491 8	520-530 / .964		
54	NC	491-501	495	491 8 - 501	530-540 / .90	approx. 497' ~~&~~ feldspar phenocrysts are fractured and broken.	at ~~approx~~ 500' ± 6" rock is silicified along "stockwork" fractures. Still have pyrite and fluorite. Some pyrite has been oxidized to a minor degree.
55	NC	501-511	505	501 - 510 5	540-550 / .974		
56	NC	511-520	515	510 5 - 520	550-560 / .735		503' bornite or bornite-like coating on pyrite. 507' visible molybdenite.
57	NC	520-529	525	520 - 529 5	560-570 / .803		
58	NC	529-539	535	529 5 - 538 9	570-580 / .91		
59	NC	539-548	545	538 9 - 547 9	580-590 / .965		544' to 545' Goethite after pyrite in open space fillings. Relatively abundant fluorite & pyrite continues downhole 605'
60	NC	548-558	555	547 9 - 557 7	590-600 / .913		Sanidine becoming less fractured and unaltered below 570'. Plag is still strongly altered to kaolin.
61	NC	558-567	565	557 7 - 567	600-610 / .807		
62	NC	567-576	575	567 - 576 7	610-620 / .817		
63	NC	576-586	585	576 7 - 586 2	620-630 / .803		

Logged by: R.J.M. DDH-44 Page 4 of 5

Box Number	Core Size	Interval on core box	Block(s) in core box	Measured Interval	RQD 10' Interval / RQD for Interval	Rock Type	Alteration & Mineralization
64	NC	586-595	595	586 7 - 595 9	630-640 / .914	Trachyte	Pyrite with small amounts of Flourite along fractures and in open space fillings,
65	NC	595-605	605	595 9 - 605	640-650 / .83		
66	NC	605-614	—	605 - 614 4	650-660 / .837	End Trachyte 605 6	Silicification ends at the contact between trachyte and granite
67	NC	614-623	615	614 4 - 623 2	660-670 / .928	Granite (Qtz. Latite Porphyry?) Pink sanidine phenocrysts.	Much less pyrite and fluorite in granite. Restricted to much smaller (micro) fractures. Sanidine is pink and ranges from unaltered to minor alteration to kaolin.(?)
68	NC	623-632	625	623 2 - 632 5	670-680 / .93	Pret fragments between 623 6 - 635	
69	NC	632-641	635	632 5 - 641 11	680-690 / .927	Granite	Plag tend to be altered to kaolin but not entirely.
70	NC	641-651	645	641 11 - 651 7	690-700 / .98		approx 615' to 800' le alteration restricted to chloritic(?) (dark green) alteration along fractures. and some rim's of kaolinite on feldspar
71	NC	651-660	655	651 7 - 660 10	700-710 / .74		
72	NC	660-670	665	660 10 - 670 1	710-720 / .853		Pyrite cubes are generally 1 mm or less are disseminated in rock ~1% and along fractures. No fluorite noticed below 615' Minor oxidation of pyrite.
73	NC	670-680	675	670 1 - 679 11	720-730 / .88		
74	NC	680-689	685	679 11 - 689 5	730-740 / .91		684' calcanthite staining along fracture.
75	NC	689-698	695	689 5 - 698 5	740-750 / .971		
76	NC	698-707	705	698 5 - 708 1	750-760 / .782		
77	NC	707-717	715	708 1 - 716 11	760-770 / .831		709 6 - 710 6 Black Mn(?) coating with chlorite
78	NC	717-726	725	716 11 - 726 4	770-780 / .732		
79	NC	726-735	735	726 4 - 735 11	780-790 / .92		726 2 - 726 8 Black Mn(?) coating with chlorite.

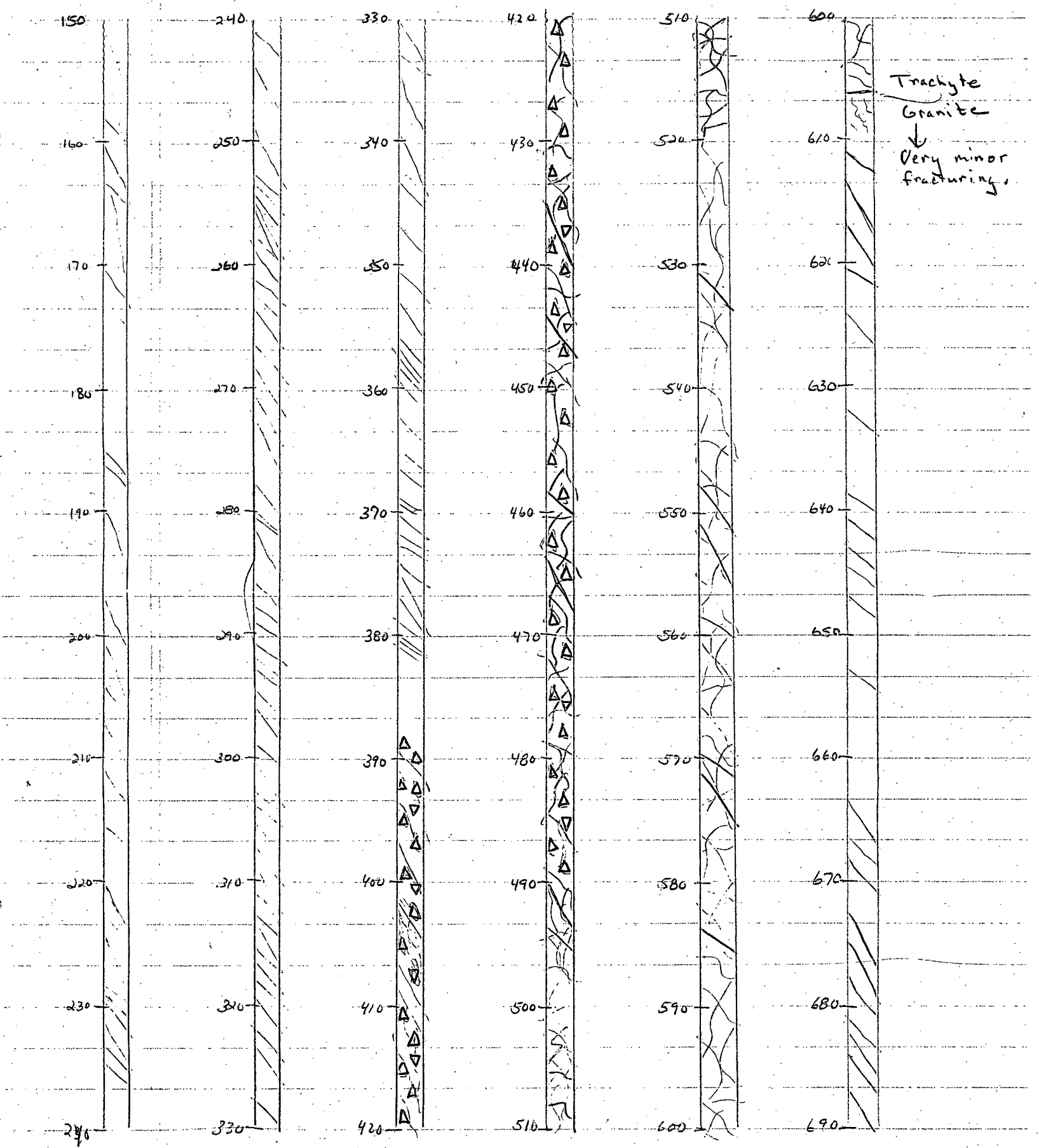
Logged by: R.J.M. DDH-44 Page 5 of 5

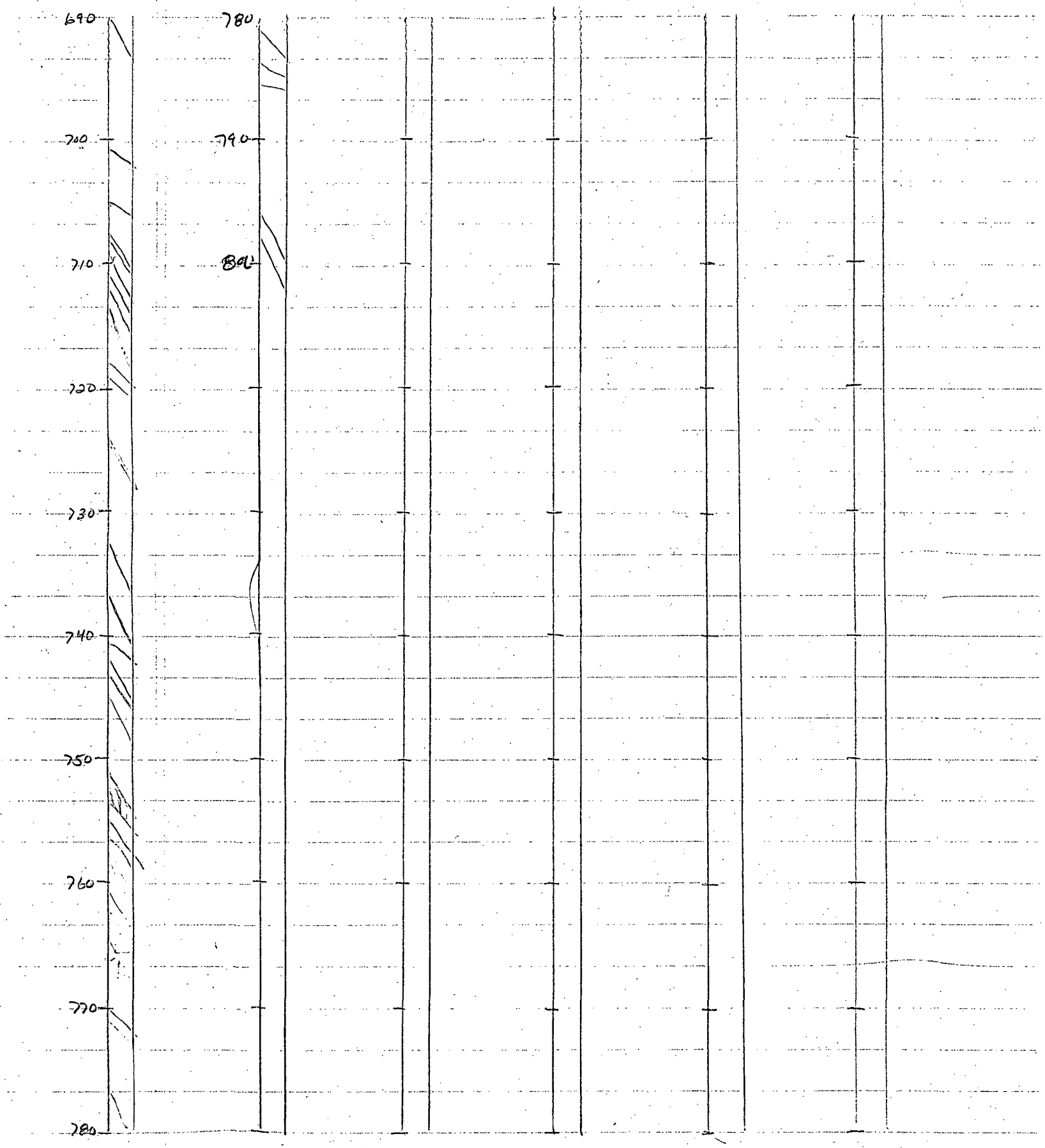
Box Number	Core Size	Interval on core box	Block(s) in core box	Measured Interval	RQD 10' Interval / RQD for interval	Rock Type	Alteration & Mineralization
80	NL	735-745	745	735 11 - 745 4	790 - 800 / .946	Granite	see previous page
81	NL	745-755	755	745 4 - 755			
82	NL	755-764	—	755 - 764 1			
83	NL	764-774	765	764 1 - 774 1			
84	NL	774-784	775	774 1 - 783 8			
85	NL	784-793	785	783 8 - 793		784' to 795' Prob Fragments	
86	NL	793-800	795 800	793 - 800 1			

Page 1 of 2
DDH-44

Logged by R.S.M.

Fractures
Brecciation
"Stockwork" Fracturing



Page 2 of 2
DDH-44

Logged by R.G.M