MAP NO.: 106 D /4

ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 093028
MINING DISTRICT: Mayo
TYPE OF WORK: Diamond Drilling

REPORT FILED UNDER: Queenstake Resources Ltd.

DATE PERFORMED: September 29, to November 20, 1991 DATE FILED: May 8, 1992.

LOCATION: LAT.: 64°02'N
LONG.: 135°50'W

AREA: Dublin Gulch Area
VALUE $: N/A

CLAIM NAME & NO.: Bob Claims, Alec Claims, Smoky Claims, West Claims, Mole Claims, Dave Claims, Jeff Claims, Mary Claims, R.D. Claims, Mar Claims, Olive Claims.
*** Due to Size of Claim Block Check Ownership Card for most Accurate Record of Claim Numbers.**

WORK DONE BY: Brian Lennan.

WORK DONE FOR: Queenstake Resources Ltd.

DATE TO GOOD STANDING:	

REMARKS: # 106 - D - Dublin Gulch Area
The company filed assessment work on 7 diamond drill holes totalling 864 metres. The company only filed drill logs and a map. A review of the logs shows the best intersection occured in hole 91 - 12, where the company recovered 0.515 oz/ton over 3 m (30.5 m - 33.5 m). The intersection was described in the drill logs as porphyritic granodiorite with limonite clay altered sections, containing 1 cm sulfide veinlets composed of pyrite and arsenopyrite.

LOGGED BY: C. Orssich

DATE: Sept [illegible], 91

SUMMARY: Mostly [illegible] granodiorite. [illegible] veinlets. Narrow [illegible] [illegible] phyllic [illegible] areas.

PROJECT: Dublin Gulch

HOLE NO.: DG-91-8

DRILL TYPE: HC 150

E. COORD.:

N. COORD.:

ELEV.:

TOTAL DEPTH: 500'

BEARING: 0°

INCLINATION: -45°

PAGE 1 OF

SAMPLE NUMBER	ANALYTICAL RESULTS Au ppm						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	ANG. TO C.A.	TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
1541175	.101						12	3.0			Gnd		1/3'	45°				qz	po	12-15 Medium grained massive biotite granodiorite trace diss. po, rusty rinds on fxs, one 0.1cm qz vnlet with K alter selvage
1541176	.051						15	3.8			Gnd		3/5'	45°		po [illegible]		qz		15-20 Biotite granodiorite. Slight rusty stain throughout. 1-3cm aplite dikelets at low angle to core. Moderate fractures and microveinlets at ~45° to core. Pyrrhotite, cpy [illegible]. Rusty selvages. K altered selvages on some. One 0.5cm qz vnlet with [illegible]
								4.0												
1541177	1.239		093028				20				Gnd		5/5'	35-55°				qz		20-25 Moderate qz feldspar veinlets ≤ 1cm with K altered selvages. Minor aplite segregations. Weak pervasive rusty stain [illegible]
								5.0												
1541178	.695						25				Gnd	27-28 phyllic	1/5'	35-45°		po cpy		qz		25-30 Rusty granodiorite. [illegible] 25-27 weak pervasive phy alt, Minor qz vnlets 27-28 Intense phyllic altered and rusty, [illegible]cm qz vnlet and limonitic clay on slip 28-29.5 Quartz vnlet [illegible] to milky white qz, phyllic selvages and weak [illegible] minor po + tr cpy. 29.5-[illegible] 0.8cm qz with tr po cpy + [illegible] vnlet.
								5.0												
1541179	.403		093028				30				Gnd		5/5'	35°		po cpy tr cpy		qz scheelite		30-35 Biotite granodiorite with [illegible] grey qz and [illegible] vnlets with K [illegible] selvages. Aplite [illegible] at 31.4 34.5 2 vnlets with scheelite and sulfides with K selvage [illegible] phyllic envelope. Diss. sulfides [illegible] K selvage.
							35	5.0												

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LOGGED BY: C. Orssich

DATE: Sept 30, 91

SUMMARY: Granodiorite, minor veinlets with trace sulfides, K altered selvages, a zone of pervasive phyllic alteration. Pyrrhotite, chalcopyrite disseminated and in [illegible] [illegible] [illegible].

PROJECT: Dublin Gulch

HOLE NO. 06-91-8 DRILL TYPE HC150

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 500'

BEARING 0° INCLINATION

PAGE 2 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
154181	.083	35	5.0			Gnd		2/5'	40°		minor po [illegible] cpy		qz		35-40 Biotite granodiorite, minor [illegible]. Fractures [illegible] microveinlets with K altered selvages, [illegible] phyllic alt., minor po on microfractures. [illegible] fxs w. weak rusty rinds.
			5.0												
154182	.302	40				Gnd		4/5'	35°		py cpy		qz	po cpy	40-45 Biotite granodiorite Po, Cpy disseminated and on microfxs. Large blebs seen in [illegible] patches. 41-42 2 [illegible], white qz vnlets ~1cm with 20cm [illegible] selvage and a rusty fracture. 44-45 2, <0.4cm qz vnlets w K alt selv.
			5.0												
154183	.134	45				Gnd	phyllic	1/5'	50° 30°						45-50 Biotite granodiorite, [illegible] milky qz vnlets. 46.4 aplitic [illegible]. 47.7-50.0 pervasive phyllic altered [illegible] 0.5cm qz, aspy, cpy vnlets.
			5.0												
154184	.073	50				Gnd		1/5'	30°		py		qz		50-55 Biotite granodiorite, [illegible] phyllic and K altered zones. 50-51 phyllic altered, [illegible] with a 0.5 [illegible] qz vnlet.
		55	5.0												
154185	.057					Gnd		1/5'	30°		po aspy		qz	po cpy	50-50 Massive [illegible] with [illegible]. Slight rusty [illegible] next to [illegible] fxs. Limonite [illegible]. Minor [illegible] 1mm vnlets of qz [illegible].
		60	5.0												

Form File FM_DH03

LOGGED BY:	C. Orssich
DATE:	Sept 30, 91

SUMMARY: S.A.P.

PROJECT	Dublin Gulch		
HOLE NO.	DG-91-8	DRILL TYPE	HC 150
E. COORD.		N. COORD.	
ELEV.		TOTAL DEPTH	500'
BEARING	0°	INCLINATION	-45
		PAGE 3 OF	

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
154186	.079	60	5.0			Grd		4/5'	45°, 40°		po py		qz sch.		60-65 Med - Dark gy [illegible] biotite granodiorite minor narrow (~.5cm) grey qz feldspar veinlets with trace scheelite, K alt [illegible] phyllic envelopes, tr po cpy on [illegible]. 60.8 .5cm qz vnlet w. mod. po., scheelite cpy.
J54187	.056	65	5.0		p	Grd		2/5'	40°		po		qz	py	65-70 Biotite granodiorite [illegible] po diss. and on microveinlets. 67-68 [illegible] white qz vnlet [illegible] grd, minor carbonate, po in vns.
154188	.316	70	5.0		p	Grd	ph/Bt	3/5'	45°		po		qz sch.	po	70-75 S.A.P. 70.2-72.4 light green phyllic altered [illegible] fzs. [illegible], 1-2mm qz [illegible] w. tr scheelite.
J54189	.112	75	5.0			Grd		2/5'	30°, 20°		po cpy		qz, biotite		75-80 Biotite granodiorite. Fresh, [illegible] sulfides. 77.5 2mm qz vnlet within [illegible]. 78.0 2mm biotite [illegible] with minor po, cpy in [illegible].
54191	1.007	80	5.0		p	Grd		4/5'	40°		po py		qz		80-85 Biotite granodiorite w. tr. diss po, mod. fxd w. limonitic clay on fxs., three 1-4mm gy to clear qz vnlets with K alt. [illegible] 1.5cm dark grey qz vnlet with 7 cm [illegible] sel. and tr. po. py.
		85													

Form File FM_DH03

LOGGED BY: C. Dossich

DATE: Sept 30

SUMMARY: Biotite granodiorite, minor quartz veining
105 - 115 Rusty clay altered granodiorite

PROJECT: Dublin Gulch
HOLE NO.: DG-91-8 DRILL TYPE: HC 150
E. COORD.: N. COORD.:
ELEV.: TOTAL DEPTH: 500'
BEARING: 0° INCLINATION: -45°
PAGE 4 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VEINS TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54192	.288						85	5.0			Gnd		1/5'	40°		po bi		qz chlorit		85-90 Biotite granodiorite, [illegible] qz chlorite veinlets ~1-2 mm with [illegible] selv. ~0.5cm [illegible] po., one large 1.0cm milky qz vein [illegible] po bi. and 4cm [illegible] on phyllic alt. selv.
								5.0												
J54193	.080						90				Gnd		0							90-95 Biotite Granodiorite. Mod fcd w. limonitic clay on fxs, narrow phyllic [illegible]
								5.0												
J54194	.113						95				Gnd		1/5'	30-50°				qz		95-100 Biotite Gnd. [illegible], broken [illegible], w. rusty fxs. trace diss. po, milky qz veinlets, to po ≤ 1cm, with phyllic selv. [illegible] chlorite [illegible] with [illegible] selv.
								3.8												
J54195	.216						100				Gnd		3/5'	35-55°		po		qz		100-105 Biotite Gnd. minor diss. po [illegible] and on micro veinlets 1-2cm milky qz veinlets [illegible] phyllic altered selv. [illegible] po, limonite [illegible] 102-103 silicified zone with less biotite.
								4.2												
J54196	.123						105				Gnd		1/5'	30°				qz		105-110 Rusty clay altered gnd. Limonitic clay on fxs. 107-110 broken rubbly core. 107 1cm milky white qz [illegible], no selvage
							110	4.3												

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LOGGED BY: C. Dessel

DATE: Sept 30, 91

SUMMARY:
115-120 Granodiorite, minor quartz veining
120-175 Phyllic and carbonate altered granodiorite, moderate veining

PROJECT: Dublin Gulch
HOLE NO.: 06-91-8
DRILL TYPE: HC 150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION: -45°
PAGE 5 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J541197	.299	110	4.3			Gnd		?/5'	30° 60°				qz scheelite	Po.	110-115 Fxd gnd. with limonite on fxs. slightly rusty in zones. Narrow ~0.5cm qz vnlets w. minor scheelite. Narrow fine grained biotite poor segregations. Minor po in minor fxs. Narrow k-alt selv. on vnlets.
		115	5.0												
J541198	.110					Gnd		?/5'	40°				qz		115-120 Gnd. Minor qz vnlets. grey 0.5cm qz vnlet with K alt. selv., milky white 2cm phyllic altered qz vnlets.
		120	5.0												
J541199	.916					Gnd		?/5'	80° 45°				qz		120-122.5 Moderatly fractured granodiorite with limonitic clay on fxs, slight rusty staining on feldspars. 1mm qz vnlet with K alt. selv. and 1mm milky white qz vnlet w. no selv.
			5.0				lim clay								122.5-128.0 Limonitic, pervasively carbonate and clay altered Moderatly fx. w. Fe, Mn staining on fxs
J541201	.631	125				Gnd	lim clay	?/5'			PY		qz		124.0 2cm bleb of fine grained pyrite on a fx. 125.5-125.8 minor 0.3cm qz vnlets
															128.0-141.1 Weakly pervasively phyllic altered greenish grey grd., cut by mod. fxs and vnlets with rusty, carbonate altered selvages. Limonitic clay on fxs
		130	5.0				phy								
J541202	.047					Gnd	phy	10/5'	40°			lim.	qz		130.? - 132 Intense qz veining.
		135	5.0												

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 1, 91

SUMMARY: SAP

PROJECT: Dublin Gulch
HOLE NO. DG-91-8 DRILL TYPE HC 150
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 500'
BEARING 0° INCLINATION -45
PAGE 6 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54203	.022	135	5.0			Gnd	Phy	5/5'	55°	–	–	Fe Mn	qz carb.		135–140 mod. qz carb. veinlets. White carbonate, dolomite?
			4.4												
J54204	.599	140				Gnd	Carb.	2/5'	30°	–	–	Fe Mn	qz		140.1–149.4 Intensely fxd and broken core. Pervasive alteration of feldspars [illegible] to rusty brown carbonate. Moderate [illegible] clay, on fxs. Minor remnant qz vnlets. Slicken[illegible] at low angle to core.
			5.0												
J54205	.119	145				Gnd	Carb	3/5'	40°	–	–	Fe Mn	qz carb.		
			5.0												
J54206	.026	150				Gnd	Phy.	0	–	–	–	Fe Mn	–		149.4–164.6 Weakly pervasively phyllic altered greenish grey gnd. cut by mod. fxs [illegible] vnlets [illegible] rusty brown carbonate altered [illegible]. Fe, Mn stained fxs, some [illegible] clay.
			5.0												
J54207	.156	155				Gnd	Phy	4/5'	60°	–	–		carb [illegible]	PY	
		160	5.0												

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LOGGED BY: C. Orssich

DATE: Oct 1, 91

SUMMARY:
175 - 216 Granodiorite, slight to moderate quartz veinlets.

PROJECT: Dublin Gulch
HOLE NO.: DG-91-8 DRILL TYPE: HC 150
E. COORD.: N. COORD.:
ELEV.: TOTAL DEPTH: 500'
BEARING: 0° INCLINATION:
PAGE 7 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
J54208	.367	160	5.0			Gnd	Phy / Carb.	5/5'	40-50°	–	–	–	qz	
			4.8											
J54209	.258	165				Gnd	Carb.	5/5'	50°	–	[illegible]	Fe Mn	qz	
			4.5											
J54211	.055	170				Gnd	Phy / Carb.	3/5'	25°	–	Po PY Li?	Fe Mn	qz carb.	
			4.6											
J54212	.037	175				Gnd	–	3/5'	35° 70°	–	–	–	qz carb.	Po
			5.0											
J54213	.863	180				Gnd	–	3/5'	35°	–	Po	–	qz	Po
		185	4.5											

COMMENTS

- 160-165 five remnant grey to milky qz vns, not associated with the carb. alteration. One [illegible] veinlets has a bleached K-alt. selvage.
- 164.6-169.6 Pervasively carbonate altered with feldspars and biotite altered to rusty brown carbonate. Minor phyllic altered remnants. Fe Mn staining on fxs
  - 166-167.5 Intensely broken and rubbly core.
  - 167.5-170.0 Remnant qz veinlets 0.5-1.5cm.
  - 169.8 Aspy occurs disseminated in phyllic altered selvage of 1.5cm qz veinlet [illegible] in vein
- 169.6-174.4 Fractured [illegible] core of phyllic altered gnd. with zones of rusty, brown carbonate alteration. Minor grey qz and qz carb. veinlets. Trace scheelite occurs in phyllic altered rock.
  - 173.5 0.5cm qz veinlet [illegible]
- 174.4-216.4 Medium grey, massive biotite-[illegible] gnd., med. grained, [illegible] diss. po. Slight to mod. gy qz veinlets w. narrow K alt. selvages, [illegible] milky [illegible] qz and qz carb veinlets [illegible] phyllic and/or carbonate altered selvages
  - 178-180 one qz carb veinlet w. carb + phy selv. two milky qz veinlets w. [illegible] selv.
  - 180-185 narrow ≤1cm gy qz veinlets w. K alt selv. tr po.
  - 180-182.5 grussy clay altered, decomposed.

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 1, 91

SUMMARY: SAP.

PROJECT: Dublin Gulch
HOLE NO. 06-91-8 DRILL TYPE: HC 150
E. COORD.: N. COORD.:
ELEV.: TOTAL DEPTH: 300'
BEARING: 0° INCLINATION: -45°
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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
J54214	1.524						185	4.5			Gnd	–	5/5'	40°	–	po py	–	qz	po	185-190 gy qz vnlets ~1cm w. K alt selv. within phyllic alt. selvages ~1-2 cm.
																			aspy	189.8 minor disseminated aspy ... near silicified zone.
								5.0												
J54215	.182						190				Gnd	–	4/5'	40°	–	–	–	qz felds		190-195 three vnlets ... carb and phyllic altered ..., vnlets 0.1-0.5 cm.
								5.0												
J54216	.090						195				Gnd	–	3/5'	40°	–	po	–	qz scheelite	po	195-200 0.5-1.0 gy qz vnlets w. ... K alt. selvages.
								5.0												
J54217	.262						200				Gnd	–	5/5'	40°	–	–	Fe	qz carb.	po	200-205 1.0-1.5 cm milky, white qz veinlets ... minor carbonate, trace sericite ... phyllic and carbonate altered selvages
								5.0												
J54218	.393						205			P P	Gnd	–	3/5'	50°	–	po	–	qz ser.		205-207 Pervasive phyllic ..., minor carb. alt. Grey and milky qz vnlets.
										P										207-210 0.2 cm qz sericite vnlets with po and scheelite
							210	5.0												

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 1, 91

SUMMARY: 216.4 - 225.5 Intensely veined and phyllic altered granodiorite
225.5 - 257.5 Granodiorite minor qz veining.

PROJECT: Dublin Gulch
HOLE NO.: 06-91-8
DRILL TYPE: HC 150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION: -45°
PAGE 7 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54219	.123	210	5.0			Gnd	–	7/5'	30° 40°	–	Bi	–	qz scheel.	po	210-216 0.5-1.5 cm milky qz vns w. phyllic alt. selv [illegible] Mo., scheelite, minor po on micro veinlets and disseminated
		215	5.0												
J54221	.662					Gnd	phy	9/5'	55°	–	–	–	qz ank.		216.4 - 225.5 Intensly veined with 1-2 cm grey to milky qz vnlets and phyllic altered selvages. Minor ankerite, trace scheelite, stibnite, arsenopyrite, pyrrhotite, bismuthinite(?), [illegible]
		220	4.0												
J54222	1.016					Gnd	phy	13/5'	[illegible]°	–	stib. aspy. po Bi? [illegible]	–	qz ank sch.		221.0 0.2 cm vnlet with K altered selvage cut by the other veins.
		225	5.0												
J54223	3.151					Gnd	–	8/5'	40°	–	po Bi?	–	qz ank sch.		225.5 - 257.5 Biotite granodiorite, trace disseminated po. [illegible] fractures. Minor qz veining, qz sericite veins [illegible] selvages, milky qz vnlets with phyllic selvages. 225-230 1-2 cm milky to grey qz vnlets, minor phyllic selvages, ankerite, tr sch., po, Bi?
		230	5.0												
J54224	.109					Gnd	–	5/5'	50°	–	po	–	qz		229 one 0.6 cm grey qz vnlet w. [illegible] sericite and K alter selv. 230-235 Grey qz vnlets ~0.5 cm with minor sericite and K altered selvages, and a rusty phyllic altered section with one vnlet 231-232.4 Broken, rusty, [illegible] core.
		235	5.0												

Form File FM_DH03

LOGGED BY: C. Dressick

DATE: Oct 2, 91

SUMMARY:

257.5 – 261.1 Phyllic altered zone, minor quartz veining

PROJECT Dublin Gulch

HOLE NO. DG-91-8 DRILL TYPE HC 150

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 500'

BEARING 0° INCLINATION -45°

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SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
JS4225	.151	235	5.0			Gnd	–	4/5'	50°	–	py	–	qz chl.		234.7 1mm gy qz vnlet w. mod. py + K altered sel.
															235-240 Grey to milky qz vnlets with weak phyllic or K alt. selvages.
		240	5.0												238.2 2mm qz calcite py-bearing vnlet
JS4226	.166					Gnd	–	3/5'	50°	–	–	–	qz		242.3 3mm gy qz vnlet no selvage 242.4 1mm qz chl. py vnlet, tr cpy, aspy
															244.7 1cm milky qz vnlet w. 2cm phyllic [illegible] selvage
		245	5.0												246.8-249.2 aplitic segregations
JS4227	.154					Gnd	phy	4/5'	45°	–	py	tr fm	qz	py cpy	249.0-249.8 Phyllic [illegible] with mod tr 0.5-1.0 cm milky qz vnlets [illegible] fractures
		250	5.0												
JS4228	.050					[illegible]	–	[illegible]	50°	–	py	–	qz sch.	py	251.3 1.5cm dark gy qz vn w. [illegible] K alt. sel. minor schorlite
															250-257.5 milky white qz [illegible] K altered sel. [illegible] py, cpy
		255	5.0												
JS4229	.039					Gnd	–	5/5'	50-10°	–	py cpy	tr fm	qz	–	257.5-261.1 Pervasively [illegible] with mod 0.5-1cm qz vnlets, minor py
											py				narrow zones of [illegible] fractures.
		260	5.0				phy								

Form File FM_DH03

LOGGED BY: C. Dorsick

DATE: Oct 2, 91

SUMMARY:

261.1 - 268.4 Biotite granodiorite, minor veining.

268.4 - 282.1 Slight to moderately phyllic altered granodiorite with moderate quartz veining and traces of bismuthinite

PROJECT Dublin Gulch

HOLE NO. DG-91-8 DRILL TYPE HC-150

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 500'

BEARING 0° INCLINATION -45°

PAGE 11 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
J54231	.175	260	5.0			Grd	-	2/5	40°	-	po	fe	bio qz felds		261.1 - 268.4 Biotite granodiorite, fine grained in areas with less biotite and more feldspar.
													calc.		Minor veinlets of biotite, or qz, feldspar altered pyrrhotite, with k altered selvages
			4.2												262.3 tr scheelite on a fracture
		265													
J54232	.112					Grd	-	4/5	45°	-	py	-	qz calc.		
			5.0												268.4 - 276.0 Pervasive moderately phyllic altered
		270													zone. Minor milky white qz veins ≤ 1cm.
J54233	.052					Grd	phy	3/5	40°	-	-	fe	qz calc.		Minor carbonate veins. Minor rusty carbonate
															alteration adjacent to Fe, Mn stained fractures
			4.9												
		275													
J54234	.129					Grd	phy	3/5	50°	-	bi	-	qz carb.		
															276.0 - 288.1 Moderate milky qz carb. veins
			4.5												within moderately phyllic altered zones and sections
		280													of weakly phyllic altered grd.
J54235	.078					Grd	phy	1/5	45°	-	bi cpy	-	qz carb		
															282.3 - 283.7 silicified
			5.0												
		285													

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 2, 91

SUMMARY:
288.1 - 310.7 Intensely phyllic altered. Larger quartz veins with traces of stibnite, tetrahedrite, bismuthinite, minor pyrite arsenopyrite healing fractures.

PROJECT: Dublin Gulch
HOLE NO.: 06-91-8
DRILL TYPE: HC150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION: -45°
PAGE 12 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
J54236	.097						285	5.0			Gnd	phy	4/5'	50°	–	bi aspy		qz carb	
								5.0											
J54237	3.086						290				Gnd	phy	4/5'	30-65°	–	py bi aspy tetd stb	Fe Mn	qz	
								3.8											
J54238	3.429						295				Gnd	phy/clay	3/5'	60°	–	py aspy	Fe Mn	qz	
								3.7											
J54239	.281						300				Gnd	phy/clay	3/5'	65°	–	aspy	–	qz	
								5.0											
J54240	.724						305				Gnd	py/clay	3/5'	60°	–	py aspy	–	qz carb	
							310	5.0											

COMMENTS

285.3 po, aspy encountered

288.1 - 310.7 Greenish grey intensely phyllic and clay altered, moderately broken core. Moderate qz pyrite vns and pyrite healed fractures and breccias. Fe Mn stn on fxs in sections.

293.5 - 295.2 Fractured [illegible] healed by sulfides (10%). Pyrite aspy, ± tetrahedrite? stibnite. contacts 34°, 40°

[illegible] thoughout qz.

305.4 - 305.7 breccia healed by pyrite and [illegible]

305 - 310 minor milky white ≤ 1cm qz veins [illegible] minor pyrite, arsenopyrite. Crosscut by clay [illegible] fractures at 20° [illegible]

LOGGED BY: C. Oessik

DATE: Oct 3, 91

SUMMARY:
310.7 - 318.4 Weakly phyllic altered granodiorite with moderate quartz veinlets.
318.4 - 338.2 Biotite granodiorite, minor quartz veining.

PROJECT: Dublin Gulch
HOLE NO. 06-91-8 DRILL TYPE HQ/NQ
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 500'
BEARING 0° INCLINATION -45°
PAGE 13 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	TYPES: VISIBLE GOLD	TYPES: SULFIDE	TYPES: OXIDE	TYPES: OTHER	DISS. MIN.	COMMENTS
J54242	.121						310	5.0			Gnd	weak phyll.	10 / 5'	25-60°	-	po	-	qz carb sch.		310.7 - 318.4 Weakly pervasive phyllic grd with mod. ~1cm milky white qz carb veinlets. Phyllic altered selvages on veinlets. Minor po + sch
							315	5.0												
J54243	.073										Gnd	weak phyllic	2 / 10'	30-40°	-	py po Mo?	-	qz carb [illegible]		316.0 - 317.8 moderate pervasive phyllic alteration
							320	4.9												318.4 - 338.2 Massive competent [illegible] granodiorite with [illegible] po, cpy disseminations and on microfrac. Minor quartz [illegible] with narrow phyllic [illegible]
J54244	.122										[illegible]	-	4 / 5'	40°	-	py	-	qz carb sch.		
							325	4.5												324.5 - 327.7 moderate pervasive [illegible] alteration and clay alteration, [illegible]
J54245	.109										Gnd	-	2 / 5'	35°	-	-	-	qz	-	
							330	5.0												328.0 - 337.2 narrow zones of K or phyllic altered [illegible], [illegible]
J54246	.051										Gnd		1 / 5'	50°	-	py	-	qz	po cpy	
							335	5.0												

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 3, 91

SUMMARY:
338.2 - 361.1 Fine grained dike

PROJECT: Dublin Gulch
HOLE NO.: DG-91-8 DRILL TYPE: HC 150
E. COORD.: N. COORD.:
ELEV.: TOTAL DEPTH: 500'
BEARING: 0° INCLINATION:
PAGE 14 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54247	.101	335	5.0			Gnd		4/5'	85°	–	–	–	qz	–	
			4.8												338.2 - 361.1 Medium grey fine grained dike. contacts 45°, 50°. Plagioclase (8%), biotite (muscovite)
J54248	.267	340				latite dike		6/5'	85°, 15°	–	PY aspy?	Mn	qz	–	(6%) phenocrysts (0.2 - 1mm) in a [illegible] groundmass of which about 50% reacted positively
															to K feldspar dye. Slight [illegible] qz [illegible], dark gy qz vns with bleached sels. and milky qz
			3.9												vns w. rusty selvages. 340 - 342 several [illegible] qz vns 2 - 10cm
J54249	.051	345				latite dike		3/5'	50°	–	po	–	qz	–	milky without selvages [illegible] grey with [illegible] selvage, [illegible] PY, aspy?
			5.0												
J54251	.100	350				latite dike		5/5'	40°	–	aspy?	Fe Mn	qz	–	350 - 355 0.5 - 1.5 [illegible] qz veinlets w. narrow rusty selvages. [illegible] Fe Mn stain on
															fxs. trace aspy
			5.0												
J54252	.319	355				latite dike		[illegible]/5'	75°	–	Mo PY aspy	Fe	qz		355 - 357 Intensely fractured and broken core moderate rusty stain on fxs.
															357 - 361.1 Milky qz veinlets, one with Mo, py. another with aspy
		360	5.0												

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 3, 91

SUMMARY:

361.1 - 375.5 Biotite Granodiorite, slight to moderate quartz veining

375.5 - 381.1 Intensely phyllic and clay altered

381.1 - 384.0 Weakly phyllic altered with minor quartz veinlets. Five specs of visible gold.

PROJECT Dublin Gulch

HOLE NO. 06-91-8 DRILL TYPE HC 150

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 500'

BEARING 0° INCLINATION -45°

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
J54253	.260	360	5.0		1'	Gnd	-	6/5'	30° - 50°	-	aspy	Fe	qz sch.	aspy	361.1 - 375.5 Biotite granodiorite moderate milky to grey qz veining w. K and phyllic selvages
															361.1 - 361.6 K altered zone at contact w. minor diss aspy. py.
			4.5												362 - 363 milky white qz veinlets w. tr. schistic w. phyllic altered selv.
J54254	.127	365				Gnd		4/5'	40°	-	aspy	Fe	qz sch.		363 - 365 Quartz, feldspar, chl. veinlets and small patches of K alteration with tr. aspy, schistose also biotite veinlets.
							clay								367 - 368.5 Intensly fractured w. clay altered zone
			3.9												368.5 Rusty shear at low angle to core
J54255	.650	370				Gnd	-	3/5'	65°	-	aspy	Fe	qz sch.		368.5 - 374 Predominantly milky to grey qz veinlets with K altered selvages, narrow K altered zones, also and one veinlet with phyllic selvage. Trace aspy
			4.2												
J54256	.146	375				Gnd	phy.	5/5'	45°	-	py	-	qz	sch.	375.5 - 381.1 Intensly phyllic and clay altered zone, minor qz veinlets, tr. py in fract.
			5.0												381.1 - 384.0 Biotite granodiorite Weakly phyllic altered. Minor milky to grey qz veinlets with
* J54257	16.96	380				Gnd	-	4/5'	30°	5 specs	bis. aspy	-	qz sch.		bleached K altered selvages. Minor fractures with white carbonate coatings at low angle to core.
					V.G.										Trace aspy. bi. V.G., [illegible] and in K alt. selv.
															382.5 1cm milky to grey qz veinlet with K alt. selv. [illegible] tr. aspy, bi. V.G.
		385	5.0												384.7 1cm milky qz veinlet, K alt selv, tr. aspy, bi

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 3, 91

SUMMARY:
384.0 - 398.6 Biotite Granodiorite [illegible] quartz [illegible]lets
398.6 - 406.6 Clay altered fractured broken core.
406.6 - 437.2 Biotite Granodiorite, slight to mod. quartz veinlets

PROJECT: Dublin Gulch
HOLE NO.: DG-91-8
DRILL TYPE: HC 150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION:
PAGE 16 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
154258	.169	385	5.0			Gnd	–	2/5'	55°	–	–	–	qz carb.	sch.	384.0 - 398.6 Biotite granodiorite. Slight grey quartz veinlets with bleached K altered selvages, narrow zones (~1-2cm) of K alteration. Minor fractures coated with white carbonate at low angle to core.
			5.6												
154259	.304	390				Gnd	–	6/5'	50°	–	py aspy	–	qz sel.		390-395 veinlets 0.5-1.5 cm, [illegible] py aspy, K altered selvages 0-1cm
			5.0												393.5 0.6 cm euhedral scheelite in [illegible].
154261	.162	395				Gnd	–	2/5'	50°	–	bi po py aspy	–	qz carb.		395-398.6 Grey qz veinlets [illegible]
			4.8												398.2 milky white qz veinlet 12cm [illegible] sels.
154262	.454	400				Gnd	–	3/5'	45°	–	po bi aspy	–	[illegible] carb.		398.6 - 406.6 Moderately clay altered fractured and broken core. Abundant white carbonate on fractures at low angle to core. Minor milky white qz veinlets with phyllic altered selvages
			5.0												
154263	.165	405				Gnd	–	4/5'	55°	–	py po cpy aspy	–	qz carb.		406.6 - 437.2 Medium grained [illegible] biotite granodiorite. Slight to mod qz veinlets 0.5-1.5cm. Milky white to grey veinlets [illegible] within phyllic alt. sels., [illegible] trace scheelite, [illegible] zones (1-2cm) of K alt., also K altered [illegible]
		410	5.0												

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 4, 91

SUMMARY: SAP

PROJECT: Dublin Gulch
HOLE NO. 06-91-8 DRILL TYPE HC150
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 500'
BEARING 0° INCLINATION
PAGE 17 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
																				continued from [illegible] page
J54264	.078						410	5.0			Gnd	–	4/5'	45°	–	po, cpy, PY	–	qz		abundant sulfides.
							415	5.0												
J54265	.135										Gnd	–	6/5'	35°, 55°	–	aspy, po, PY		qz, sch.		418.5 - 420.3 [illegible] zone
							420	5.0												
J54266	.183										Gnd	–	8/5'	35°, 50°	–	po, aspy	–	qz, sch., carb.		422 - 426 Moderate qz veining. 424.2 [illegible] zonolith
							425	5.0												420 - 433 Minor white carbonate on fx at low angle to core
J54267	.174										Gnd	–	3/5'	50°	–	aspy, po, PY	–	qz, sch., carb.		424.9 - 425.3 minor scheelite in 0.5 cm qz veinlets with K alt. selvages.
							430	5.0												
J54268	.371										Gnd	–	4/5'	45°	–	po, aspy, stib, PY	–	qz, carb.	po	432.5 - 435.0 Qz carb veinlets [illegible] on phy. alt. [illegible]
							435	5.0												

Form File FM_DH03

LOGGED BY: C. Dissick

DATE: Oct 4, 91

SUMMARY:
437.2 - 445.0 Moderately veined phyllic altered
445.0 - 481.5 Moderately veined, phyllic altered granodiorite

PROJECT: Dublin Gulch
HOLE NO.: DG-91-8
DRILL TYPE: HC150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION:
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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
J54269	.158						435	5.0			Gnd.	–	7/5'	40-50°	–	st.b. bi. aspy	–	qz sch.	–	
																				437.2 - 445.0 50% moderately phyllic altered adjacent to milky white qz vns. separated by sections of weak phyllic alt. Vns 0.5 - 5.0 cm with tr. sulfides, scorodite, Vns in this section are generally larger
							440	5.0												
J54271	.180										Gnd	phy	9/5'	50°	–	py aspy bi?	–	qz carb.		
							445	4.8												
J54272	.037										Gnd	–	7/5'	[illegible]	–	py py		qz carb.		445.0 - 481.5 Moderately veined, weakly to moderately phyllic altered granodiorite. Vnlets 0.1 - 1.0 cm, grey to milky qz vnlets with K altered selvages, milky white qz vnlets, narrow 1-2 cm K altered zones. Minor fractures with white carbonate
							450	5.0												
J54273	.046										Gnd	phy	2/5'	[illegible]		py aspy? py		qz		450.0 - 452.5 [illegible]
							455	4.2												
J54274	.155										Gnd	phy	7/5'	50-60°	–	py	–	qz sch.		459.2 - 459.7 K flooding w. tr. diss py, [illegible]
																				458 weak carbonate gouge zone.
							460	4.3												

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 4 91

SUMMARY: 481.5 - 497.0 Intensely phyllic altered, slight to moderate quartz veining.

V.G at 469.8

PROJECT: Dublin Gulch

HOLE NO. DG-91-8 DRILL TYPE HQ [illegible]

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 500'

BEARING 0° INCLINATION -45°

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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
J54275	.167						460	4.3			Grd	phy	4/5'	70°	–	py	–	qz carb.		460.7 - 463.0 mod. phy alt. 460.5 - 463.5 mod. broken core.
								5.0												
J54276	.081						465				Grd.	weak phy.	5/5'	65 70°	1 spec	bi tetra py	–	qz carb.		466 - 468 Chlorite on [illegible] at sub parallel to core.
								5.0												
J54277	.087						470				Grd	weak phy	5/5'	[illegible]	–	–	–	qz carb.		469.8 1cm milky to grey qz veinlet, minor white carbonate, py[illegible], trace [illegible] tetrahedrite. 1 microscopic spec of gold occurs at the edge of a small grain of tetrahedrite? at the grain boundary between qz [illegible]. Veinlet has a bleached ? [illegible] within a phyllic altered [illegible] zone. carb / qz x2
								3.5												
J54278	.200						475				Grd	phy	?/5'	60°	–	py cpy bi	–	qz		475 - 477 mod phy alt.
								4.8												
J54279	.395						480				Grd	phy.	7/5'	60 70°	–	bi	–	qz carb.		481.5 - 497 Intensely phyllic and weakly clay altered rock. Slight to mod. milky white qz veins. 481.5 - 483.0 Moderately clay altered gouge zone.
							485	5.0												

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 4, 91

SUMMARY:

497.0 - 498.0 Fault zone

498.0 - 500 Phyllic altered granodiorite

V6 at 492.8

PROJECT Dublin Gulch

HOLE NO. DG-91-8 DRILL TYPE HC 150

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 500'

BEARING 0° INCLINATION -45°

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SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
J541281	.096	485	5.0			Grd.	phy	1/5'	65°	—	py, bi	—	qz		
															490 - 492 minor white quartz veins - fg
		490	5.0												
* J541282	.352					Grd	phy	11/5'	55°	1spec	bi, po	—	qz		492.8 - 493.4 Narrow vein zone, five 0.5 to 1.0 cm milky quartz veinlets w. bi, po, one spec V.G. beside bismuthinite.
		495	5.0												
J541283	.889					Grd	phy	1/5'	55°	—	py	—	qz		497.0 - 498.0 Fault zone. 10 cm clay gouge and 20 cm breccia, minor graphitic slips. Moderate pyrite and quartz.
															498.0 - 500 Green intensely phyllic altered g.d. Minor milky qz veinlets
		500													

Form File FM_DH03

LOGGED BY: R. Zehner

DATE: 10/8/91

SUMMARY: Apparently the core is drilling through the contact zone between intrusive (leucocratic gd or qtz monzo at border, biot-hbl granodiorite … from core) and interlayered metaseds: biotite qtz schist ± andalusite and quartzite. Sparse sulfides except for pyrrhotite clots in biot-qtz schist at 80'-90'

PROJECT: Dublin Gulch, Yukon Terr

HOLE NO. DG-91-9

DRILL TYPE:

E. COORD.:

N. COORD.:

ELEV.:

TOTAL DEPTH:

BEARING:

INCLINATION:

PAGE 1 OF

SAMPLE NUMBER	ANALYTICAL RESULTS Au ppm	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	ANG. TO C.A.	TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS: Casing to 35', HQ core
J55322	.023	35	0.8			Bqs	–	–	–	–	–	hem	–		Rounded core has been up and down the core barrel several times. Poor recovery.
			1.2												Biotite-qtz ± andalusite schist. No sulfides, fresh. Lower amphibolite facies meta. Feox from b…
323	.013	40	1.5			Bqs	–	–	–	–	–	hem	–		SAP; schistocity parallel to fold axis. Poor recovery. 5% qtz monzonite (dike?)
324	.133	45	2.4			Qm Bqs	–	–	–	–	–			Qm has <1 py	60% Biot-hbl qtz monzonite (5% biot; 3% hbl) 40% Biot-qtz schist as prev.
325	.089	50	2.8			Bqs Qm	–	–	–	–	–		–		60% Bqs - strongly deformed (ptygmatic folds) 40% Qm - contact at 65° to C.A.
326	.096	55	2.0			Qm Qzt	–	–	–	–	–	–	–		55-56 - Qm as prev 56-60 Quartzite w. interfingered Qbs
327	.063	60	1.7			Qm	Qvn ser	<1/ft	60	–	–	lim hem	–		Poorly sericitized (light green matrix; cloudy) qm cut by several 1cm qtz veins w no selvage/sulf
328	.069	65	1.7			Qm	Qvn Ksp	<1/ft	45	–	–	hem	–		SAP except qtz veins have ~2cm Ksp-alt selvages and clots of biot (2ndary, in places ~5%)
329	.096	70	1.9			Qd, Qzt	Qvn ser			pyrr	–	hem	–	pyrr	70-74.5 Granodiorite, und as prev. Poor ser 74.5-75 Qtzt with diop-biot-pyrr-hem zones
330 / 331	control / .107	75				Bqs	–								Biotite-qtz schist as prev. Quartz occurs as thin, discontinuous 5 cm lenses in biot schist
			2.8												Schistocity at 45° to C.A.
332	.123	80	4.0			Bqs Gd	–	–	–	–	–	Hem (lim)		~1% pyrr	80-84 Biot-qtz schist w sparse pyrr clots 84-85 Biot-hbl granodiorite - w Feox on fracts
333	.018	85				Bqs Gd	–	–	–	–	–	Hem		1-5% pyrr, [illegible]	85-88, 89-90 Bqs with pyrrhotite clots 88-89 Hem-st granodiorite
			2.7												Clots in bqs are up to 3cm dissem., and have trace cpy. V.f.g.
334	.024	90–95	0.2												…-93 Quartzose biot-and sch w 0.8cm … 93-95 Hem-st granodiorite, Hem from oxy …

Form File FM_DH03

LOGGED BY: Zehner

DATE: 10/8/91

SUMMARY: Section characterized by poor recovery and notable lack of alteration.

PROJECT: Dublin Gulch
HOLE NO.: DG-11-1
DRILL TYPE:
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH:
BEARING:
INCLINATION:
PAGE 2 OF

SAMPLE NUMBER	ANALYTICAL RESULTS: Au PPM						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	TYPES: VISIBLE GOLD	TYPES: SULFIDE	TYPES: OXIDE	TYPES: OTHER	DISS. MIN.	COMMENTS
J55335	N.R.						95 / 100	0.2 / 1.7												No recovery "Sand-5ft."
336	.065						105	1.4			Bqs gd	—	sweats	meander	—	—	Fe ox (hem)		—	Poor recovery. Mostly biotite-qtz schist cut by meandering white qtz 'sweat' veins. Last 20% granodiorite.
337	.024						110	No Recovery			Bqs gd									SAP bqs, last 20% gd, poor recovery, no alt.
338	N.R						115	1.8												No recovery: "6 ft sand"
339	.018						120	No Recovery			Gd bqs									Fsh biot-hbl granodiorite 90%. 1 Piece bqs in middle of interval. Poor recovery. No alt vis.
340	Control																			
341	N.R						125	0.3												No recovery "Sand 8 ft"
342	.024						130	1.2												Very poor recovery - mostly gd
343	.065						135	3.2			Gd	Qvn	<1/ft	45	—	pyrr bi, aspy	hem		—	Fresh granodiorite cut by thin <5mm qtz veinlets w no selvage. Rare pyrr, bi, aspy in veinlets (<1 dic.)
344	.075						140	3.5			Gd bqs	Qvn	<1/ft	45	—	—	hem			90% fresh granodiorite, 10% bqs or qtzt with bqs
345	.645						145	4.3			Gd	Qvn	1/ft	45		!	lim on fracts	carb on fract	—	Fsh gd cut by ≤1cm qtz veinlets having no sulfides or selvages. Fracts w qtz veins have lim+carb.
346	.157						150	3.8			Gd	Qvn Ser	1/ft			PY, Py <1	SAP	SAP		SAP: Rare py & pyrrhotite in qtz veins. Minor local phyllic alt (wk-mod)
347	.33						155	3.6			Gd	Qvn Ser	<1/ft			—	hem	—	—	Fresh gd. Fractures at 45° to C.A. have strong white clay alt (a few mm wide)
348	.054						160	2.9			Gd	Qvn Ser (wk)	<1/ft			—	hem		vfg py <1	Fsh gd. Hem, esp along fractures. Some hem from biot oxy; some from sulfides in fracts.
349	.034						165	3.0			Gd	wk Ser	—	—	—	—	hem	—	—	Weakly sericitized gd (partial feldspars, few biotites) No strong greenish phyllic look. Sparse meandering white carbonate veinlets.

LOGGED BY: Zehner

DATE: 10/8/91

SUMMARY: Mostly fresh biot-hbl granodiorite with few qtz veins, some of which have phyllic selvages. Little internal alteration is wk-moderate pervasive. Xenoliths and odd contact melt/mixing phenomena 200'-210. Few sulfides.

PROJECT: Dublin Gulch
HOLE NO.: DG-91-9
DRILL TYPE:
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH:
BEARING:
INCLINATION:
PAGE 3 OF

SAMPLE NUMBER	ANALYTICAL RESULTS: Au PPM						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
JS5350	-control						165	3.0												
351	.073										Gd	local phyl	<1/ft	45	—	—	hem	ser carb	py	Mostly fresh biot hbl granodiorite cut by few qtz veins, which have [illegible] phyllic (sericitized)
							170	2.6												selvages. White carbonate veinlets [illegible]. Xenoliths present with chilled margins.
352	.117										Gd		<1/ft	45	—	—	hem		py <1	SAP; hem along [illegible] qtz veins
							175	2.3												
353	.365										Gd	[illegible]	1/ft	-	-	-	hem		py, cpy <1	SAP, sulfides and hem along veins. Sparse
							180	3.7												
354	.075						185	2.0			Gd	[illegible] ser		45			hem lim	ser	py 1%	SAP, weak pervasive phyllic alteration. Plag getting cloudy, [illegible] throughout
355	.366						190	1.9			Gd	ser (ksp)	<1/ft				hem lim	ser	py 1%	SAP, weak perv phyllic alt - [illegible] mostly fresh, but beginning to alt to ser
356	.289						195	3.0			Gd	ser [illegible] ksp					lim hem	ser		SAP
357	.185										Gd	ser ksp qtz	<1/ft		—	—	lim hem	ser		Moderate phyllic and potassic (?) altered granodiorite; rock cut by yellow-orange [illegible]
							200	3.4												[illegible]; some clay [illegible] cuts with putty knife
358	1.339										Gd	qtz ser	1-2/ft	40	—	—	lim	ser		Mostly fresh [illegible] qtz veinlets having phyllic & clay alt as prev. Many xenoliths, some with 1.5
							205	4.2												cm plag xls. (?) [illegible]. Some selvages [illegible]
359	.212										Gd	qtz ser	1/ft	40	—	Pyrrh? bi	lim	ser		SAP, first 3 feet [illegible] xenoliths [illegible] mixing phenomena w/ lg plag xls,
							210	4.7												porph [illegible], 208-210 [illegible]. The few qtz veins have [illegible]

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LOGGED BY: R. Zehner

DATE: 10/8/91

SUMMARY:

PROJECT Dublin Gulch
HOLE NO. DG-91-9 DRILL TYPE
E. COORD. N. COORD.
ELEV. TOTAL DEPTH
BEARING INCLINATION
PAGE 4 OF

SAMPLE NUMBER	ANALYTICAL RESULTS: Au ppm	Rerun Au ppm					DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	ANG. TO C.A.	TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J55360 / 361	-control / .409						210	4.7			Gd	Qtz ser	1.5/ft	35	—	py, bi	hem	ser		weak sericitic (phyllic) altered [illegible] granodiorite having numerous mafic xenoliths. qtz veins have [illegible]
							215	4.4												phyllic selvages
362	.700						220	5.0			Gd	Qtz ser	>1/ft	45, 15	—	—	lim hem	carb ser	tr py	SAP. Large xenoliths (>1 ft). Mod to strong limonitic fractures at 15° to C.A. wk perv sericite alt
363	.407						225	4.2			Gd	Qtz ser	<1/ft		—	—	lim	ser carb	tr v.f.g. py	SAP, small xenoliths.
364	.393						230	4.5			Gd	Qtz	<1/ft			Aspy bi?			py (?)	Rel fresh gd cut by several aspy-bi bearing veins [illegible] contains ~1% v.f.g. py + aspy. Xenoliths 3%
365	.468						235	5.0			Gd	Qtz	1.5/ft	35, 15	—	—	lim	carb		SAP, qtz veins have no selvages or sulfides. Lim + carb on 15° to C.A. fracture Xenoliths
366	.424						240	3.4			Gd	Qtz	<1/ft		—	—	lim	—		SAP, few 15° fractures
367	.525						245	2.5			Gd	Qtz	<1/ft	25	—	—	lim jar	—		SAP, qtz vns have [illegible], open-space filling aspy
368	5.93	(1.61R)					250	0.9			Gd	Qtz	<<1/ft		—	—	hem tr lim	—	—	Fresh granodiorite, cut by few qtz veins having no selvages. Hem from oxy biot. Poor recovery.
369	.019						255	3.3			Gd	Qtz	"		—	—	hem	—	—	SAP; also poor recovery Xenoliths
370 / 371	CONTROL / .935						260	5.0			Gd	Qtz	[illegible]/ft	35	—	—	hem		v.f.g. py	SAP though matrix seems to be a bit cloudy, and cut by many fracts or microveinlets (?)
372	1.491										Gd	Qtz ser	1/ft	35, 15	—	py, aspy, bi	hem			Plag cloudy to white (sericite or clay alt). [illegible] (<5mm) qtz veins, [illegible] 15° to C.A. has v.f.g.
							265	4.3												py, aspy and tr bi in center near open space fillings.
373	2.163	(1.2)									Gd	Qtz	1/ft			—	hem		—	[illegible] slightly alt gd: plag cloudy white, cut by qtz veins up to 5cm wide having 5cm K-spar
							270	4.5												selvages on either side. No sulfides seen in veins or matrix

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"There's not a speck of gold within a hundred yards of this hole" KJ (upwards) said at 295'–300'

LOGGED BY: R. Zehner

DATE: 10/9/91

SUMMARY: Very poorly altered and mineralized biot-hbl granodiorite except for one vein at 307' which contains visible gold (+py, pyrr, cpy, aspy, bi).

PROJECT: Dublin Gulch
HOLE NO.: DG-91-9
DRILL TYPE:
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH:
BEARING:
INCLINATION:
PAGE 5 OF

SAMPLE NUMBER	Au ppm	Rerun Au ppm	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J55374	2.374	6.549	270	4.5			Gd	Qvn (ser)	<1/ft	35	—	py bi (cpy)	goe lim hem	ser	vfg py cpy	Biot-hbl granodiorite cut by qtz veins up to 0.4 ft thick. Gd matrix [illegible], locally oxidized.
			275	4.4												[illegible] qd has vfg [illegible] py [illegible], cpy [illegible] 1cm selvages on [illegible].
375	.965		280	4.1			Gd	Qvn	<1/ft		—	—	lim hem			Fresh biot-hbl gd w/ few qtz veins. 35° [illegible]. Fractures have lim.
376	.309		285	4.8			Gd	Qvn	1/ft	[illegible]	—	—	lim hem	carb	—	SAP, lim+carb on fracs
377	.84		290	4.7			Gd	Qvn ser	1/ft		—	tr py	lim goe hem	carb ser	.	SAP, [illegible] lim+carb+ [illegible] on fractures.
378	.713						Gd	Qvn ser	1/ft	35-40	—		lim hem		few	Fsh to slightly cloudy feldspars in gd cut by qtz vns up to 3cm wide having 2cm sericitic selvages.
			295	5.0												Strong limonite on fracts(?) qtz veins
379	.50		300	4.1			Gd	Qvn ser	<1/ft		—	—	hem	.	Few	SAP, Some [illegible] however qtz vns, wk 2cm [illegible] ksp selvages [illegible] Xenoliths ~3%
380 / 381	control / .886						Gd	Qvn ser	[illegible]		—	py, aspy, bi				Cloudy yellow [illegible] feldspars (clay, ser.) pervasive alt in gd, qtz vn selvages strongly pervasive green (ser-kspar)
			305	4.4												
382	1.877						Gd	Qvn ser	1.4/ft	48-55	1 speck <1mm	py cpy aspy bi pyrr	lim hem goe		Few	SAP, one vein has clots of py+cpy+aspy+bi+GOLD partly oxidized. Sulfides occur at intersection of 25° and 55° veins, 1-2cm wide ser selvage.
			310	5.0												
383	.102		315	4.2			Gd	Qvn	1/ft		—	—	lim hem goe			Mostly fsh biot-hbl gd cut by qtz veins having 1cm ser-ksp(?) alt. Veins have wk lim, goe.
384	.912						Gd	Qvn								SAP. Feldspars cloudy, biot+hbl intact, qtz veins have no sulfides and ≈1cm
			320	4.5					1/ft		—	—	lim hem	—	Lim Few	selvages. Lim+carb on some fractures.

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LOGGED BY: R. Zehner

DATE: 10/9/91

SUMMARY: Fresh to clay altered biot-hbl granodiorite with low qtz vein density. Clay alteration here consists of plag only (qtz, ksp, mafics fsh), becoming cloudy white to yellow white. Some zones in zoned plag more alt. Qvns generally have no selvage or sulfides, occasionally may have ser selvages <2 cm and trace sulfides.

PROJECT: Dublin Gulch

HOLE NO.: DG-91-9 DRILL TYPE:

E. COORD.: N. COORD.:

ELEV.: TOTAL DEPTH:

BEARING: INCLINATION:

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SAMPLE NUMBER	ANALYTICAL RESULTS Au FAA	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS TYPES: VISIBLE GOLD	VEINS TYPES: SULFIDE	VEINS TYPES: OXIDE	VEINS TYPES: OTHER	DISS. MIN.	COMMENTS
J55385	.275	320	4.5			Gd	Qvn	1.5/ft	40	–	tr py, asPy	hem lim	carb	Py vfg <<	Fresh biot-hbl granodiorite with <<1% vfg py cut by thin <1.5 cm qtz veins having narrow (<1cm)
		325	4.0												phyllic alteration selvages. Some fractures at ~20° to C.A. have limonitic carbonate shear material.
386	.339	330	4.8			Gd	Qvn	<1/ft		–	–	lim goe hem	carb	vfg Py <<1	SAP; vein density lower. Py in matrix and veins mostly to wholly oxidized to goethite.
387	.664											lim hem	carb		SAP; Plag microphenocrysts cloudy yellow-white. Limonitic carbonate on fractures at 40° and nearly
		335	3.0												parallel to core axis
388	.938	340	1.5			Gd	Qvn wk clay	<<1/ft	45	–	–	lim hem	clay	–	Weakly clay-altered or sericitized granodiorite. Mafics intact, plagioclase cloudy. Lim-hem stain.
389	.062	345	2.8			Gd	Qvn wk clay	<1/ft		–	–	lim hem	clay	–	SAP. Granodiorite getting soft and "sandy" as the drillers call it. Poor recovery.
390	continued														
391	.601					Gd	Qvn clay (alg)	<1/ft		–	–	lim hem	clay	–	Clay-altered plagioclase in biot-hbl gd; qtz and Ksp not affected, biotites a little. Rock soft here.
		350	2.1												346-347' clay gouge, otherwise mod clay alt gd. Few veins, no selvages, no sericite.
392	.683					Gd	Clay	<<1/ft	?	–	–	lim hem	clay carb	oxidized Feox	Weakly to moderately clay-altered granodiorite. Plag alt to clay (Ksp, qtz, mafics v.s.); some plag zones
		355	3.6												more than others. Weak limonite, esp on fractures with carbonate.
393	1.69	360	4.8			Gd	Clay Qvn	<1/ft	40, 70	–	–	lim hem	cl-f carb	Feox	SAP
394	.248					Gd	Clay Qvn	0.5/ft		–	tr py, bi	lim hem	clay carb	Feox ~5% pyrite	SAP; several qtz veins have sericitized (phyllic alt) selvages 2cm wide, and trace sulfides.
		365	4.5												healing frac in qvn (latest episode). Some v.f totally clay alt (~10%) cuts w putty knife.
															Lim+carb on fracts

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LOGGED BY: R. Zehner

DATE: 10/9/91

SUMMARY:

PROJECT: Dublin Gulch
HOLE NO. DG-91-9 DRILL TYPE
E. COORD. N. COORD.
ELEV. TOTAL DEPTH
BEARING INCLINATION

SAMPLE NUMBER	ANALYTICAL RESULTS: Au ppm						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	ANG. TO C.A.	TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J55395	.131						365	4.5			Gd	clay qvn ser	<1/ft	nearly 35 to vert	–	pyrr & aspy	lim hem	Ser	py<1 [illegible]	Biot-hbl granodiorite, fresh to moderately clay altered (plag, see above), cut by <2cm qtz veins
								3.3												having sericitic selvages up to 2 cm wide. Gd has <1% dissem py or Feox; qvn has tr pyrr + aspy in fine heal.
							370				Gd	clay qvn	<1/ft		–	–	lim hem	ser carb	py<1 or Feox	Weak to mod. clay alt granodiorite as prev. Plag alters, others don't. Carb+lim on fracs
							375				Gd	clay qvn?		—	–	–	lim	carb	–	SAP. 376-377 Strongly lim-altered clay and grit (gravel, etc).
							377 EOH													

Form File FM_DH03

LOGGED BY: C. [illegible]

DATE: Oct 7 '91

SUMMARY:
0 - 22 casing
22 - 27 Rusty clay altered granodiorite
27 - 34.5 Rusty porphyritic intrusive
34.5 - 104.6 Rusty clay altered granodiorite, minor quartz and sulfide veining.

PROJECT Dublin Gulch
HOLE NO. DG-91-12 DRILL TYPE HC 150
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 500'
BEARING 0° INCLINATION -45°
PAGE 1 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		0	4.4												0-22 Casing
J54386	.081	22				Gnd	clay limon	1/[illegible]'	[illegible]°	—	—	Fe Mn	qz	—	22.0 - 27.? Moderately broken, rusty clay altered granodiorite [illegible]
		25	4.2												
						Gnd	clay lim	1/5'	55°	—	—	Fe Mn	qz	—	
J54387	.005					Pdr									27.0 - 34.5 Fine grained porphyritic [illegible] [illegible] 5 mm phenocrysts of quartz and feldspar [illegible] [illegible] Pale green where [illegible] altered, but predominantly rusty, Fe, Mn stained fxs. No qz veining.
		30	5.0												
J54388	.020					[illegible]	clay lim	0	—	—	—	Fe Mn	—	—	
			4.2												
J54389	.005	35				Gnd	clay lim	[illegible]	25°	—	—	Fe Mn	qz	—	34.5 - 104.6 Rusty intensely clay altered granodiorite. [illegible] in areas. Minor qz veins [illegible]. Moderate to very strong Fe Mn staining on fxs. Moderately [illegible] core
		40	5.0												
[illegible]91	.061					Gnd	clay lim	3/5'	45° 80°	—	py	Fe Mn	qz	py	[illegible] minor 1.0 cm qz vein [illegible] [illegible] Minor [illegible] [illegible] [illegible] disseminated.
		45	5.0												

Form File FM_DH03

LOGGED BY: C. [illegible]

DATE: Oct ?, 91

SUMMARY: SAP.

PROJECT [illegible]
HOLE NO. DG-91-12 DRILL TYPE
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 500'
BEARING 0° INCLINATION -45°
PAGE 2 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
[illegible]392	1.347	45	5.0		C L	Gnd.	[illegible] clay	3/5'	50°	–	–	Fe Mn	qz		[illegible]
[illegible]393	.472	50	4.3		C L C	Gnd.	[illegible] clay	?/6'	30° 10°	–	–	Fe Mn	qz		50-55 [illegible]
[illegible]394	.393	55	5.6		C L C	Gnd.	[illegible] clay	1/5'	30° 50°	Py ?py		Fe Mn	qz Sch.		55.8' [illegible] 58.2 [illegible] 56-57 Strong Fe/Mn staining on frx, mod. frac. core.
[illegible]395	.103	60	4.5		L C L C	Gnd.	? clay	1/5'	60°	–	Jam.	Fe Mn	qz		62.1 1.5cm vnlet of 75% jamesonite with 20% clasts of qz.
[illegible]396	1.899	65	4.8		L C	Gnd	[illegible] clay	1/5'	40°	–	Py ?py	Fe Mn	qz		67.4 1.0 cm sulphide vnlet 10% [illegible]
		70	4.4												

Form File FM_DH03

LOGGED BY:	C. Cressich
DATE:	Oct 7, 91

SUMMARY: S.A.P.

PROJECT	Dublin Gulch		
HOLE NO.	DG-91-12	DRILL TYPE	HC 150
E. COORD.		N. COORD.	
ELEV.		TOTAL DEPTH	300'
BEARING	0°	INCLINATION	-45°
		PAGE 3	OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54597	1,365	70	4.4		C	Grd	clay lim.	5/5'	65° 30°	–	Py aspy	Fe Mn	qz		70-73 Moderately veined section, [illegible] 1-2mm branching sulfide veinlets, one milky white qz veinlets and a 5cm brecciated [illegible], quartz [illegible]
					L C										
		75	4.8		C										
J54598	.105				L C	Grd	clay lim.	9/5'	45°	–	PY	Fe Mn	qz		
					C										77.8-78.0 Brecciated [illegible] and [illegible] zone, lim. PY
		80	4.9		L										
J54599	.276				K C	Grd	clay lim.	7/5'	60°	–	PY	Fe Mn	qz		80-[illegible] [illegible]
					L										
		85	5.0		C										
J54601	.070				K	Grd	clay lim. K	5/5'	55°	–	PY	Fe Mn	qz		85-89.4 [illegible] qz [illegible]
					K										
		90	5.0		K C L										
J54602	.057				C L	Grd	clay lim. K	5/5'	60°	–	PY	Fe Mn	qz		
					C										93-95 Mod qz [illegible]
		95	5.0		K L C K										

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 7, 91

SUMMARY: 104.6 – 120.5 Porphyritic granodiorite, clay altered sections, slight to moderate veining. One larger quartz vein (20cm) with minor blebs of arsenopyrite at 111-112ft.

PROJECT: Dublin Gulch
HOLE NO.: DG-91-12 DRILL TYPE: HC 150
E. COORD.: N. COORD.:
ELEV.: TOTAL DEPTH: [illegible]
BEARING: 0° INCLINATION: [illegible]
PAGE 4 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
[illegible]	5.864	95	5.0			Gnd	lim clay	1/5	40°	–	py aspy Mn	lim Mn	qz		97.7 1cm qz sulfide vein, Minor py, [illegible] Mn.
		100	5.0												
[illegible]	20.062					Gnd	lim clay	[illegible]	40° 70°	–	py aspy	lim Mn	qz		102.5 15cm qz py aspy [illegible] [illegible] 2.5 mod. narrow (1cm) sulfide veinlets.
		105	5.0												
[illegible]	15.261					Gnd	clay	[illegible]	50°	–	aspy	lim	qz		104.6-120.5 [illegible] granodiorite [illegible] K spar? phenocrysts [illegible] intense clay alteration [illegible] qz [illegible]
		110	4.0												[illegible] Mod. [illegible] qz [illegible]
[illegible]	1.545					Gnd	[illegible]	[illegible]	[illegible]	–	aspy	–	qz		[illegible] intense clay [illegible]
		115	3.8												111-112 20cm [illegible] qz [illegible] aspy
[illegible]	.104					Gnd	clay phy		60°	–	aspy	–	qz		117-120.5 intense clay [illegible] qz [illegible]
		120	4.5												

Form File FM_DH03

LOGGED BY: C Orssich

DATE: Oct 8, 91

SUMMARY:
120.5 – 234.5 Granodiorite, slightly porphyritic, very hard and competent [illegible]. Minor quartz veinlets [illegible] larger [illegible] of quartz ± arsenopyrite.

PROJECT: Dublin Gulch
HOLE NO.: DG-91-12
DRILL TYPE: HC 150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION: -45°
PAGE: 5 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS TYPES: VISIBLE GOLD	VEINS TYPES: SULFIDE	VEINS TYPES: OXIDE	VEINS TYPES: OTHER	DISS. MIN.	COMMENTS
J544108	.227						120	4.5			Gnd	–	1/5'	60°	–	aspy	–	qz		120.5 – 234.5 Medium grey, slightly [illegible] biotite granodiorite. Large white [illegible] very competent rock. [illegible] grey quartz [illegible] with [illegible] sulfides. [illegible] healed and [illegible] of [illegible] healed fxs. [illegible] large [illegible]
								3.6												[illegible] aspy [illegible] veinlet
J544109	.005						125				Gnd	–	1/5'	60°	–	–	–	qz		[illegible] 133.0 mod. [illegible] few [illegible]
								4.5												125.2 [illegible] with 0.5 [illegible]
J544111	.806						130				Gnd	–	1/5'	35°	–	aspy	–	qz		[illegible]
																				131.5 [illegible] qz aspy, py vn
								5.0												134.6 – 135.0 broken [illegible] core
J544112	.243						135				Gnd	–	1/[illegible]	30°	–	–	–	qz		135.5 – 136.? broken core [illegible]
								5.0												
J544113	.096						140				[illegible]	–	[illegible]	[illegible]	–	–	–	qz large vein		[illegible] qz large [illegible] along [illegible]
							145	4.5												

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LOGGED BY: C. Orssich

DATE: Oct 9, 91

SUMMARY: S.A.P.

PROJECT: Dolphin G[illegible]
HOLE NO. DG-91-12 DRILL TYPE [illegible]
E. COORD. N. COORD.
ELEV. TOTAL DEPTH [illegible]
BEARING 0° INCLINATION -45
PAGE 2 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54419	.017						170 175	4.8 4.4			Gnd	-	?	35°	-	-	-	qz		
J54421	±.005						180	5.0			Gnd	-	?	55°	-	-	-	qz		
J54422	.492						185	4.2			Gnd	-	?	45°	-	aspy	-	qz		184.? 2cm qz aspy [illegible]
J54423	.826						190	4.9			Gnd	-	?/5'	45°	-	aspy	-	qz		186.7 3cm massive aspy vn. [illegible] 189.6 2cm gy qz vn w [illegible]
J54424	.357						195	5.0			Gnd	-	?/5'	60°	-	-	-	qz felds. sch.		195-200 [illegible] gy qz w. feldsp veinlets [illegible] [illegible] k alt. [illegible] sch
J54425	.614										Gnd	[illegible]	?	70°	-	aspy	-	qz		195.5 15 cm milky white qz vn w minor aspy 195-196.5 phyllic altered.
							200	4.4												198.5-199.5 milky white qz [illegible]
J54426	±.005						205	4.2			Gnd	-	0	-	-	-	Fe	-		200.3-202.4 rusty, clay altered, decomposed gd [illegible]-204.? Brecciated [illegible] alt zone
J54427	.019						210	5.0			Gnd	-	?	65°	-	aspy bi?	Fe	qz		20?.1-20?.? rusty, clay altered, decomposed [illegible] [illegible] 3cm qz [illegible] aspy, tr bi?
J54428	±.005										Gnd			60°	-	aspy tr?	-	qz		21?-215 moderate [illegible] (1cm) [illegible] [illegible]
							215	4.0												214.8 1cm [illegible] qz [illegible] sch, tr aspy [illegible] ?
J54429	.151										Gnd	-	?	70°	-	aspy tr.	Fe	qz sch.		218.2 3cm white qz [illegible] minor aspy [illegible] 218.? [illegible] altered zone.
							220	4.9												
J54431	.007										Gnd	-	0	-	-	-	-	-		
							225	5.0												

LOGGED BY: C. [illegible]

DATE: Oct 9, 91

SUMMARY:
234.5 – 237.4 Moderately veined phyllic altered granodiorite
237.4 – 257.0 Granodiorite, very minor quartz veinlets
257.0 – 258.8 K altered zone

PROJECT: [illegible]
HOLE NO.: [illegible]
DRILL TYPE: [illegible]
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH:
BEARING: 0°
INCLINATION: -45°
PAGE 8 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
[illegible]32	.005	225	5.0			Gnd	–	[illegible]	60°	–	–	–	qz felds.	–
[illegible]33	.011	230	5.0			Gnd	–	[illegible]	50°	–	[illegible]	–	qz sch.	
[illegible]34	.008	235	5.0		P	Gnd	phy	[illegible]	50°	–	Mo jam.	–	qz sch	
[illegible]35	.006	240	5.0			Gnd	–	[illegible]	60°	?	[illegible] Bi?		qz sch amphibole	
[illegible]36	.037	245	5.0			Gnd	–	[illegible]	50°	–	Mo? Bi?	–	qz felds.	
[illegible]37	.005	250	5.0			Gnd	–	0	–	–	–	–	–	
[illegible]37	.054	255	5.0		K K	Gnd	–	[illegible]	60°	–	Bi?	–	[illegible]	Sch.
		260	5.0											

COMMENTS

234.5 – 237.4 Slight to mod. [illegible] int. vning of [illegible], white qz [illegible], Mo, py, jam., Vns range from 2-15cm.

237.4 – 257.0 Competent gnd. Minor qz vnlets with K alt. [illegible] Mo

[illegible] 5 cm [illegible] containing [illegible] [illegible] [illegible]

257.0 – 258.8 Intense K altered zone, minor scheelite, tr. Mo.

LOGGED BY: C Orssich

DATE: Oct 9, 91

SUMMARY:
258.8-261.5 Granodiorite
261.5-274.0 Granodiorite, Quartz sulfide veins with k altered selvages.
274.0-285.0 Granodiorite
285.0-332.6 Granodiorite, Moderate quartz cont.

PROJECT: Dublin G[illegible]
HOLE NO.: DG-91-12
DRILL TYPE: [illegible]
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION: -45°
PAGE 9 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.
V54439	.093						260	5.0			Gd	k	[illegible]	60°	–	[illegible]	–	qz	–
								5.0											
V54441	.105						265				Gd	k	–	[illegible]°	–	[illegible]	–	qz	
								5.0											
V54442	.721						270				Gd	–	[illegible]	75°	–	Mo, aspy		qz	–
								5.0											
V54443	<.005						275				Gd	–	[illegible]	70°	–	–	–	qz felds.	
								5.0											
V54444	<.005						280				Gd	–	[illegible]	[illegible]				[illegible]	
								5.0											
V54445	1.165						285				Gd	[illegible]	[illegible]	50°	–	[illegible]	–		
								5.0											
V54446	<.005						290				Gd		[illegible]	–	–	–			
								5.0											
							295												

COMMENTS

258.8-261.5 Massive, unaltered, [illegible] very hard & competent.

261.5-274.0 Veined k felds and sericite altered sections separated by sections of unaltered gd. [illegible] dolomite, [illegible]

274.0-285.0 Massive, unaltered competent gd very [illegible].

285.0-332.6 Slightly [illegible] gd., moderate qz ± sulfide veinlets, [illegible] Strongly [illegible] [illegible] wide, [illegible] k altered [illegible].

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LOGGED BY: C. Ossin

DATE: Oct 9, 91

SUMMARY: continued
Sulfide veins with strong K altered selvages.

PROJECT: Dublin Gulch
HOLE NO.: DG-91-12
DRILL TYPE: HC 150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION:
PAGE 10 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54447	.005	295	5.0			Gnd	-	4 / 5'	80° / 45°	-	-	-	qz		
		300	5.0												
J54448	.017				K K	Gnd		5 / 5'	59° / 90°	-	-	-	qz		30?.? - 30?.? [illegible] wht qz vn with [illegible] K alt selv[illegible] [illegible]
		305	5.0												
J54449	.019					Gnd		[illegible]	60°	-	Mo	-	qz		2-4 cm qz vns [illegible] Mo
		310	5.0												30?.? - [illegible] Fe stained Fxs at low angle to core.
J54451	.005					Gnd		3 / 5'	20°	-	[illegible] Mo	Fe	qz		
		315	5.0												
J54452	2.778					Gnd	-	? / 5'	60°	-	aspy / py	-	qz		
		320	5.0												
J54453	.772					Gnd	-	? / ?	65°	-	aspy / py / Mo	-	qz		323-324 A 10cm and a 7cm [illegible] wht qz vn with 2-3% aspy, 1% py, tr Mo, K and phyllic alt [illegible]
		325	5.0		[illegible]		1 / Ph								
J54454	2.812					Gnd	-	5 / 5'	45° / 70°	-	aspy	-	qz	PY	325.8 3cm vn, 75% aspy, 20% qz, [illegible] feldspar. 3cm K alt. [illegible] with [illegible] alt [illegible]
		330	5.0		K P										

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LOGGED BY: C. Orssich

DATE: Oct 10, 91

SUMMARY:
332.6 - 356.4 Granodiorite, minor quartz veinlets
356.4 - 359.1 Intensely [illegible] phyllic and K altered.
359.1 - 381.6 Granodiorite, [illegible], minor veinlets

PROJECT: Dublin Gulch
HOLE NO.: DG-91-12
DRILL TYPE: HC 150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION: -45°
PAGE 11 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
J54455	1.244						330	5.0		K P K	Gnd	ph/K	5/5'	70°	—	aspy py	—	qz	
								5.0											
J54456	.648						335				Gnd	—	[illegible]	50°	—	aspy	—	qz carb	
								5.0											
J54457	.008						340				Gnd	—	1/5'	45°	—	—	—	qz	
								5.0											
J54458	.075						345				Gnd	—	1/5'	45°	—	—	—	qz carb	py
								5.0											
J54459	.016						350				Gnd	[illegible]	[illegible]	50° [illegible]	—		—	qz	
								5.0											
J54461	.016						355			K P K P	Gnd	phy. K	11/5'	10-60°	—	cp/ sph jam	—	qz carb	
								5.0											
J54462	.026						360				Gnd	—	[illegible]	70°	—	—	—	qz	py
							365	5.0											

COMMENTS

332.6 - 356.4 Slightly porphyritic gnd, [illegible] white feldspar phenocrysts. Hard and [illegible]. [illegible] veinlets of grey to milky qz, minor white carbonate, [illegible] with K alt. and [illegible] alt. selv.

[illegible] Med grey [illegible] veinlets [illegible] K alt. [illegible] 1-3 cm [illegible] [illegible] veinlets.

356.4 - 359.1 Intensely [illegible] phyllic and K [illegible] zone. 1-2 cm veinlets consisting of [illegible] qz, ankerite, chalcopyrite, [illegible], jamesonite, [illegible] jam, [illegible] [illegible]

359.1 - 381.6 Med grey granodiorite [illegible] [illegible] veinlets.

Form File FM_DH03

LOGGED BY: C. Dessich

DATE:

SUMMARY:
381.6 - 395.0 Moderately veined K altered or phyllically altered granodiorite. Minor sulphides.
395.0 - 398.6 Unaltered, [illegible] granodiorite.
398.6 - 414.8 Granodiorite, minor veining.

PROJECT: Dubl[illegible]
HOLE NO.: [illegible]
DRILL TYPE: HC 150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: [illegible]
INCLINATION: -45°
PAGE [illegible] OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
54463	.017	365	5.0			Gnd	-	1/5'	45°	-	aspy	-	qz	
		370	5.0											
54464	.005					Gnd	-	0	-	-	-	-	-	py
		375	5.0											
54465	.005					Gnd	-	1/5'	65°	-	-	-	qz	py
		380	5.0											
54466	.006				K, P, P	Gnd	Ph, K	3/5'	55°	-	py	-	qz ank.	
		385	5.0											
54467	.286				P	Gnd	phy.	5/5'	45°, 75°	-	aspy, Jam.	-	qz, ank., sch.	
		390	5.0		P, P, P									
54468	.036				P	Gnd	phy	2/5'	65°	-	aspy, py, Mo	-	qz ank	
		395	5.0		P, P, P									
54469	.005					Gnd	-	1/5'	65°	-	-	-	qz	
		400	5.0											

COMMENTS

- 388.4 3cm [illegible] pyrite [illegible] sphalerite [illegible], [illegible], slightly brecciated
- 381.6 - 382.8 Intensely K feldspar [illegible] clay altered [illegible], [illegible] [illegible] py, aspy.
- 382.8 - 387.0 Mod. milky to grey qz veinlets, [illegible] with 2-5 cm K alt or phyllic alt selv., [illegible], Mo, sch. [illegible]
- 387.0 - 390.7 Pale green [illegible], phyllic altered zone. Mod. qz, ank, aspy [illegible]
- 390.7 - 393.1 [illegible] veined gnd.
- 393.1 - [illegible] 10cm milky white [illegible] qz [illegible] 20cm [illegible] Minor [illegible]
- 395.0 - [illegible] [illegible], [illegible] gnd.
- [illegible] - 414.8 gnd. with [illegible] widely spaced 1-2cm pale gy qz [illegible] 2cm K and phyllic altered [illegible]

Form File FM_DH03

LOGGED BY: C. Oresich

DATE:

SUMMARY:

414.8 - 416.0 Moderately veined, K and phyllically altered

416.0 - 461.9 Granodiorite. Minor veinlets.

PROJECT Dublin Gulch

HOLE NO. DG-91-12 DRILL TYPE HC 150

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 500

BEARING 0° INCLINATION -45°

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SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
544471	.023	400	5.0			Gnd		5 / 5'	50°	-	-	-	qz sch.	Po	
		405	5.0												
544472	.005					Gnd		1 / 5'	65°	-	-	-	qz	Po	404.8 - 414.8 Granodiorite, very minor veinlets, massive overall.
		410	5.0												
544473	.027					Gnd		1 / 5'	65°	-	-	-	qz		
		415	5.0												
JS44474	.185				K alt.	Gnd		4 / 5'	70°	-	aspy	-	qz		414.8 - 416.0 Moderately veined, K and phyllic altered, 2 qz veinlets [illegible]
		420	5.0												[illegible]
JS44475	.005					Gnd		1 / 5'	70°	-	-	-	qz sch.	Po	416.0 - 426.0 Gnd. minor veinlets, qz qz [illegible] narrow K alt. selv., [illegible]
		425	5.0												[illegible]
JS44476	.005					Gnd		1 / 5'	65°	-	-	-	qz		426.0 - 459.0 Gnd. minor veinlets, qz qz [illegible] K altered [illegible]
		430	5.0												
JS44477	.005					Gnd		2 / 5'	65°	-	-	-	qz		
		435	5.0												

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LOGGED BY: C. Orssich

DATE:

SUMMARY:
461.9 - 470.4 Moderate to intense veining. K, phyllic and carbonate altered.

PROJECT: Dublin Gulch
HOLE NO.: DG-91-12
DRILL TYPE: HC 150
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 500'
BEARING: 0°
INCLINATION: -45°
PAGE: 14 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54478	.020	435	3.3			Gnd		1/5'	60°	–	aspy		qz		
J54479	.148	440	5.0			Gnd		1/5'	45°	–	aspy		qz	Po	
J54481	.014	445	5.0			Gnd		2/5'	65°	–	–		qz chlorite		
J54482	.006	450	5.0			Gnd		1/5'	55°	–	–	–	qz		450.0 - 461.9 Granodiorite, spotted with white feldspars. Minor veining. [illegible] qz veinlets [illegible] [illegible] veinlets [illegible] veinlets.
J54483	.021	455	5.0			Gnd		3/5'	70°	–	–	–	qz		
J54484	.005	460	5.0		K	Gnd	K	2/5'	60°	–	–	–	qz sch.		461.9 - 467.0 Pervasively K altered zone with numerous small [illegible] veins of qz, [illegible]
J54485	.050	465	5.0		K, P, Chl	Gnd	K, Phy., Carb.	10/5'	60-90°	–	–	–	qz		467.0 - 470.4 Pale yellow green [illegible] pervasive phyllic [illegible] altered rock. Moderate [illegible] qz, [illegible] [illegible] disseminated [illegible].
		470													

Form File FM_DH03

LOGGED BY: C. Oessich

DATE: Oct 10 91

SUMMARY:
470.4 - 500.0 Granodiorite [illegible]

PROJECT: Dublin Gulch
HOLE NO.: DG-91-12 | DRILL TYPE: HC 150
E. COORD.: | N. COORD.:
ELEV.: | TOTAL DEPTH: 500'
BEARING: 0° | INCLINATION: -45°
PAGE 15 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
V54486	.018	470	5.0		K, K		K	3/5'	70°	–	–	–	qz carb	
V54487	.026	475	5.0					4/5'	65°	–	py [illegible]	–	qz carb	
V54488	.005	480	5.0					5/5'	65°	–	–	–	qz carb	
V54489	.005	485	5.0		C, C, P			1/5'	?	–	–	–	qz carb	
V54491	.016	490	5.0					4/5'	65°	–	Mo	–	qz carb sch.	
V54492	.005	495	5.0					1/5'	60°	–	–	–	qz	
		500												

COMMENTS

470.4 - 475.1 50% [illegible] alteration [illegible] zones adjacent to qz veinlets, [illegible] fxs [illegible] veinlets. Minor qz veinlets. Minor late fxs [illegible]

475.1 - 480.0 [illegible] qz [illegible]. Minor qz [illegible] K alt. [illegible]

[illegible] - 477.4 phyllic altered zone [illegible] 2cm [illegible] qz veinlet [illegible] py [illegible]

480.0 - 486.2 Broken and decomposed, phyllic [illegible] clay [illegible] gnd. Minor qz veinlets. [illegible] Minor sericite scheelite, trace [illegible] grey to milky white [illegible]

486.2 - 500.0 [illegible] grey gnd. [illegible] K alt. [illegible] white carb [illegible] fxs [illegible]

482 - 486 [illegible] zones at [illegible] quartz feldspar with lesser biotite.

Form File FM_DH03

LOGGED BY: Cyril Orssich

DATE: Oct 11 91

SUMMARY:
0-15 Casing
15-37.0 Granodiorite, Minor schists
22.1-22.9 Quartz Vein
37.0-57.6 Rusty fractured granodiorite
39.0-40.0 Quartz Vein

PROJECT Dublin Gulch
HOLE NO. DG-91-13 DRILL TYPE [illegible]
E. COORD. N. COORD.
ELEV. TOTAL DEPTH [illegible]
BEARING 0° INCLINATION -45°
PAGE 1 OF 13

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		0													0-15 Casing
J544993	.005	15	4.7			Gnd		2/5'	60°	-	-	-	qz		15-37.0 Medium grey biotite granodiorite to Minor grey qz schists [illegible]
J544994	.010	20	4.8			Gnd		1/5'	10°	-	-	-	qz		22.1-22.9 8" milky white qz vn with 1" [illegible]
J544995	.015	25	4.6			Gnd		0	-	-	-	-	-		
J544996	.005	30	4.5			Gnd		2/5'	50°	-	-	-	qz		
J544997	.051	35	3.3			Gnd	Fe	[illegible]	60°	-	[illegible]py / cpy	Fe Mn	qz		37.0-57.6 Moderate to intensely fractured and broken rusty gnd., mod. Fe, Mn staining on fxs.
J544998	.045	40	2.0			Gnd		0	-	-	-	Fe Mn	-		39.0-40.0 Cobbles of milky white quartz, trace [illegible]py, [illegible]py
J544999	.005	45	3.6			Gnd	Fe	0	-	-	-	Fe Mn	-		
		50													

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SUMMARY:

55.0 - 58.0 60% quartz
59.6 - 68.5 Granodiorite, minor veining.
62.0 - 62.8 Quartz vein.
68.5 - 73.4 Fractured granodiorite. Very minor veinlets

PROJECT

HOLE NO. DG-91-13 DRILL TYPE

E. COORD. N. COORD.

ELEV. TOTAL DEPTH

BEARING INCLINATION

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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	ANG. TO C.A.	TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54501	.005						50	4.6			Gnd	tr	0	–	–	–	Fe	–		
J54502	.012						55	3.2			Gnd	tr	2/5'	65°	–	aspy	Fe Mn	qz		55.0 - 58.0 60% cobbles [illegible] 7" long of milky white qz, tr. aspy
J54503	.005						60	5.0			Gnd		[illegible]	75°	–	aspy Jam.	Fe	qz sch		59.6 - 68.5 Granodiorite. Minor qz [illegible] with lesser feldspar, minor coarse [illegible]
																				62.0 - 62.8 Large [illegible] qz vn with tr. aspy and jamesonite
J54504	.005						65	5.0			Gnd		1/5'	60°	–	–	Fe	qz		
J54505	.005						70	3.5			Gnd	[illegible]	0	–	–	–	Fe Mn	–		68.5 - 73.4 Granodiorite. Moderately fractured with Fe, Mn staining on fxs, and rusty stained [illegible] Very minor qz vnlets with rusty weathering phyllic altered selvages.
J54506	.010						75	4.3			Gnd	tr	4/5'	45°	–	–	Fe Mn	qz		
J54507	.005						80	5.0			Gnd	tr	1/5'	65°	–	–	Fe	qz		
J54508	.005						85				Gnd	–	0	–	–	–	Fe	–		

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SUMMARY:

93.4 - 97.0 clay altered zone

97.0 - 125.0 [illegible] Minor veining

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SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
			5.0												
154509	.005	90	4.4			Gnd		n	–	–	–	Fe	–		
															93.4-97.0 Slight to intense clay altera[illegible]
154511	.173	95	4.8			Gnd	clay	2/5'	29°	–	py aspy	–	qz		
															97.0-125.0 Competent granodiorite [illegible] veining [illegible] qz, gy qz [illegible]
154512	.012	100	5.0			Gnd		2/5'	60°	–	py aspy	–	qz felds chlorite		97.0 3/8" pyrite aspy [illegible]; [illegible] 4" [illegible] qz [illegible] phyllic [illegible] clay altered selvages
154513	.005	105	4.7			Gnd		n	–	–	–	–			102.6-[illegible] Zones of yellow green phyllic and carbonate alteration. The [illegible] zones [illegible] form a [illegible] selvage on [illegible] [illegible] sulfide [illegible]
154514	.005	110	4.6			Gnd		n	–	–	–	Fe Mn	–		
154515	.005	115	4.8			Gnd		n	–			Fe Mn	–		[illegible] limonite on fxs
154516	.009	120	5.0			Gnd		2/5'	45°	–	–	–	qz felds chlorite		[illegible] 125 1/2" to 3/4" gy qz felds [illegible], [illegible] minor altered
		125													

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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54517	.012						125	4.8			Gnd	phy	1/5'	10°	–	fe aspy	Fe	qz		125-170 Yellowish green intensely phyllic altered zone. Slight to moderate sulfide and lesser quartz veinlets.
J54518	.122						130	5.0			Gnd	phy [illegible]	0/5'	60°	–	py aspy cpy	Fe	–		125-130 One 5° [illegible] qz [illegible], [illegible] [illegible] Cxs. 130-135 Clay altered [illegible]
J54519	.295						135	4.7			Gnd	phy	?/5'	60° 70°	–	py aspy		qz		135-135 [illegible] qz veinlets [illegible]. 135-140 [illegible] quartz [illegible] upper part of section [illegible] sulfides [illegible]
J54521	.161						140	5.0			Gnd	phy	6/5'	75-45°	–	py aspy	Fe	qz		140-145 [illegible] sulfide [illegible]
J54522	.086						145	5.0			Gnd	phy	5/5'	[illegible] 70°	–	py aspy		qz ank	PY	[illegible] qz and [illegible] Sulfides [illegible] crosscut qz.
J54523	.044						150	5.0			Gnd	phy	6/5'	30° 60°	–	py aspy		qz ank		[illegible] qz [illegible] veinlets [illegible] sulfides.
J54524	.008						155	4.8			Gnd	phy	1/5'	30°	–	py		qz ank		
J54525	.518						160				Gnd	phy	[illegible]			py aspy		qz	py aspy	160-165 [illegible] sulfide veinlets [illegible] and disseminated.

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SUMMARY:
170 - 189.3 Granodiorite. Very minor veining
189.3 - 193.1 Phyllic altered zone
193.1 - 210.0 Granodiorite. [illegible]

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ELEV.		TOTAL DEPTH	
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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS TYPES: VISIBLE GOLD	VEINS TYPES: SULFIDE	VEINS TYPES: OXIDE	VEINS TYPES: OTHER	DISS. MIN.	COMMENTS
								4.2												164.1 2cm [illegible] py aspy vn
J54526	1.115						165	5.0			Gnd	phy	4 / 5'	30° / 60°		aspy / py	-	qz		166.2 2cm quartz aspy vn
J54527	.005						170	5.0			Gnd		0							170.0 - 189.3 Complete granodiorite [illegible] qz and sulfide [illegible]
J54528	.055						175	5.0			Gnd		1 / 5'	50°	-	py / aspy	[illegible]	qz		177 0.5 cm py, aspy [illegible]
J54529	.064						180	5.0			Gnd		[illegible]	45°	-	Mo, [illegible]		qz		180-185 [illegible]
J54531	.006						185	4.2			Gnd		[illegible]	40°	-	py / py		qz / carb.		
J54532	.007						190	4.7			Gnd	[illegible]	[illegible]	60°	-	-		qz / carb.		189.3 - 193.1 Pale greenish grey phyllic altered rock, limonite stained sections, bleached [illegible] sections. [illegible]
J54533	.005						195	5.0			Gnd		0							193.1 - 210.0 Complete granodiorite. Very [illegible] veinlets [illegible] K and phyllic [illegible] selv.
							200													

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DATE:	

SUMMARY:
214.0 - 225.0 Intensely K and phyllic altered zone
225.0 -

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ELEV.		TOTAL DEPTH	
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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.
J54534	.005						200	5.0			Gnd		1/5'	45°	–	–	–	qz	
J54535	.006						205	5.0			Gnd		0						
J54536	.010						210	4.2			Gnd		3/5'	50°	–	aspy	–	qz	
J54527	.076						215	4.6		K, P	Gnd		6/5'	55°	–	aspy py		qz anh	
J54538	.011						220	4.7		P	Gnd		2/5'	60°	–	py	–	qz anh	
J54539	.005						225	5.0		P	Gnd		0	–	–	–	–	–	
J54541	.001						230	5.0			Gnd		1/5'	?	–	–	Fe	qz	
J54542	.360						235			P, P	Gnd	Ph y	6/5'	60°		aspy py		qz	

COMMENTS

214.0 - 225.0 Intensely K altered with narrow qz qz veinlets.

214.0 - 225.0 Pale green [illegible], phyllic and [illegible] altered zone. Moderate q[illegible] [illegible] anhedral [illegible] [illegible] [illegible] veins.

225 - 233.5 Unaltered gnd.

233.5 - 247.0 Mod. to few qz ± sulfide veinlets [illegible] gnd. to int. phyllic and clay altered zones, separated by sections of weakly [illegible] altered gnd., narrow K altered selvages.

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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
							240	5.0											
J54543	.011							5.0			Gnd	Phy clay	1/5'	?	–	Py			
							245												
J54544	.006							5.0			Gnd		5/5'	65°	–	Stib? Py		qz chl.	
							250												
J54545	.071							5.0			Gnd		5/5'	60°	–	Stib? aspy	Fe	qz carb. chl.	
							255												
J54546	.455							5.0			Gnd	phy	1/5'	60°		Po Py cpy sph.		qz carb.	
							260												
J54547	.005							5.0			Gnd	Phy clay K	5/5'	55° 55°		bi?		qz sch. carb	
							265												
J54548	.095							5.0			Gnd	Phy	4/5'	60-70°		Py aspy		qz	
							270												
J54549	.005							5.0			Gnd	Phy	2/5'	50°		?		qz	
							275												

COMMENTS

- 234-238 milky white qz [illegible]
- 23[illegible] - 23[illegible] Intensely phyllic and clay altered
- 236 - 23[illegible] weakly phyllic altered
- 237 - 242.5 Intensely clay and phyllic altered
- 239 - 241 Med [illegible] qz veinlets
- 247.0 - 257.5 Med [illegible] gy gnd, minor qz carb. vning, 30% K altered [illegible] adjacent to healed fxs or microveinlets, [illegible] white carbonate [illegible] fxs.
- 257.5 - 272.6 Slight to med qz [illegible] sulfide [illegible] [illegible] of med. to int phy + clay alt., sep[illegible] narrow sections of unaltered gnd. 1mm white carbonate coating fxs.
- 258.0 [illegible] 12 cm milky white qz - sulfide vn.
- 25[illegible] - [illegible] phyllic + clay altered
- [illegible] - [illegible] unaltered gnd
- 261.5 - 262.5 Int. phy + clay alt [illegible] few milky wh qz v
- 26[illegible] - 26[illegible] Dark gy qz [illegible] [illegible] K alt. and weak [illegible]
- [illegible] - 272.6 Pale gn [illegible] + clay [illegible]
- 272.6 - 28[illegible] Med. to dark gy gnd with [illegible] 0.2 - 1.0 gy qz vnlets, minor [illegible], chlorite, [illegible] scheelite, tetradymite?, narrow K altered [illegible] 20% [illegible]

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SUMMARY:
284.0 - 356.0 Zone of mixed K, clay and phyllic alteration. Pervasive intense. Moderate veinlets

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HOLE NO. D6-91-13 DRILL TYPE

E. COORD. N. COORD.

ELEV. TOTAL DEPTH

BEARING INCLINATION

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
J54551	.005	275	5.0			Gnd		9/5'	65°	–	bi?		qz felds chlor. sch. carb.	
J54552	.005	280	4.3			Gnd		?/5'	60°	–	bi?		qz felds	
J54553	.062	285	5.0			Gnd	clay K	1/5'	10°	–	py aspy	–	qz carb.	
J54554	.021	290	5.0			Gnd	K clay py	4/5'	60°		aspy		qz ser.	Mo py
J54555	.008	295	5.0			Gnd	K clay	5/5'	65°		–		qz	
J54556	.031	300	5.0			Gnd	–	4/5'	55°		Mo py	Fe	qz	
J54557	.137	305	4.3			Gnd	K clay	3/5'	55°		Mo		qz	
J54558	.005	310				Gnd		4/5'	60°				qz	

COMMENTS

284.0 - 356.0 Zone of mixed K, clay and phyllic alteration. Pervasive intense. Moderate [illegible] white to gy qz vnlets

285.0 - 285.0 Intensely clay altered and [illegible]

[illegible] - 285.8 buff grey [illegible] and [illegible]

clay altered zone. Consists of [illegible] qz and [illegible], [illegible] fine grained white feldspar [illegible]

285.8 - 290.0 pale yellow green gy K, clay [illegible] alt, SAA but with [illegible]

[illegible], contains a 2cm gy fine grained [illegible] qz vnlet at low angle to core, [illegible] py [illegible]

[illegible] - 294.7 Mixed sections of K + clay [illegible] + [illegible] alteration

294.7 - 295.6 K alt [illegible]

294.7 - 297.0 K + clay alt

[illegible] - 297.2 Int clay alt and [illegible]

297.2 - 300 K + clay + [illegible]

[illegible] - 304.1 30% K alt [illegible] in [illegible] K [illegible]

304.1 - 309.7 Pervasively K and slight [illegible] clay [illegible]

309.7 - 316.2 Med gy gnd. Minor gy [illegible] qz vnlets in [illegible] K altered gd.

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SUMMARY:
S.A.P.

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SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		315	4.8												
J54559	.006		4.7		K cl K	Grd	K clay	4 / 3'	[illegible] 30°		py	Fe	qz		
		320			K										316.2 - 327.5 Pervasively K altered, [illegible] med clay alt., [illegible] of phyllic [illegible] Fe stained fxs.
* J54561	.413		4.6			Grd	K clay	6 / 3'	60°	1 spec.	py Mo.	—	qz ank. dol.		319.0 py veinlet cuts qz veinlet; 322.0 [illegible] py [illegible]
		325			K cl K										
J54562	.059		5.0		K K	Grd	K	2 / 3'	45°		py Mo.?	—	qz	sch.	
		330													327.5 - 331.9 Medium gy grd, [illegible]
J54563	.006		5.0		cl P P C	Grd		3 / 5'	60°		Mo. sph py		qz dol. sch.		331.9 - 333.6 Intensely [illegible] and phyllic alt., [illegible] qz dol veinlet [illegible] Mo.
		335													
J54564	.187		5.0			Grd		[illegible] / 5'	50°		qz py		qz		333.6 - 349.6 Mod. to int. K [illegible] phyllic altered grd. [illegible] Coarse grained. Mod [illegible]
		340													
J54565	.005		5.0			Grd		2 / 5'	70°				qz dol. [illegible]		
		345			K K										
J54566	.005		5.0		K K	Grd		[illegible]	[illegible]				qz dol.		
		350													

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HOLE NO. 06-91-13 DRILL TYPE

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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
V54567	.085						350	5.0		[illegible]	Grd	k cly	3 5'	60°		py mo py Mo		qz ank dol.		349.6 - 356.0 [illegible] K and clay altered grd, mod. veinlets, milky white to gy qz, minor to dk gy smokey qz, minor py, [illegible]
V54568	.005						355	5.0			Grd		2 5'	45°		Mo		qz sch.		356.0 - 388.5 Medium to dark grey [illegible] porphyritic grd., mod. [illegible]. Slight to mod gy qz veinlets with [illegible] selv. [illegible] of k alteration 2-40 cm wide.
V54569	.005						360	5.0			Grd		3 5'	20°				qz. felds. chl. sch.		[illegible] white k [illegible] zone. [illegible]
V54571	.005						365	5.0			Grd		1 5'	50°				chl.		367.5 [illegible]
V54572	.005						370	5.0			[illegible]		2 5'	[illegible] 55°				qz chl. bio.		373 - 374.5 white [illegible] k [illegible] zone
V54573	.006						375	5.0			Grd		2 5'	70°		Mo		qz sch.		
V54574	.092						380	5.0			Grd		3 5'	60°				qz [illegible]		
V54575	.005						385				[illegible]		[illegible]	60°	[illegible]	[illegible]	[illegible]	qz [illegible]		

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SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
								4.5												388.5 – 411.5 [illegible] buff grey med. to [illegible] [illegible] Intense [illegible]
J54576	.459						390	5.0		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		Py		qz		[illegible] qz veinlets [illegible] py [illegible]
																				[illegible]
J54577	.216						395	5.0		[illegible]		[illegible]	[illegible]	[illegible]		[illegible]		qz		[illegible]
																				[illegible] ground py
J54578	.010						400	5.0		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		Py [illegible]		[illegible]		
J54579	.118						405	5.0		[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 85		Py [illegible]		qz [illegible]		412-414 [illegible] clay altered
J54581	.030						410	4.8		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		411.5 – 422.7 [illegible] grey [illegible]
																				[illegible] of milky white qz [illegible] less
J54582	.142						415	4.8		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		Py		qz	[illegible]	grey [illegible] ground qz pyrite [illegible] [illegible] irregular [illegible] qz [illegible]
																				branching, [illegible] [illegible]
J54583	.198						420	5.0		[illegible]	[illegible]		[illegible]	40°		Py [illegible]		qz		[illegible] 424.5 [illegible]
							425													

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HOLE NO. DG-91-13 DRILL TYPE _____

E. COORD. _____ N. COORD. _____

ELEV. _____ TOTAL DEPTH _____

BEARING _____ INCLINATION _____

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
J545584	1,004	1425	5.0												
		1430													428.7-457 Pale greenish grey [illegible]
J545585	1,010		4.4												
		1435													
J545586	1,010		4.6												
		1440													
J545587	1,007		3.5												
		1445													
J545588	1,005		4.2												
		1450													
J545589	1,005		5.0												
		1455													
J545591	1,056		4.8												457.0-463.0
		1460													
J545592	1,014														

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E. COORD. N. COORD.
ELEV. TOTAL DEPTH
BEARING INCLINATION

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
			5.0			Gnd	–	[illegible]	40°			–	qz cl.	–	463.0 – 500 Dark grey [illegible] ground gnd. Minor qz veinlets, [illegible] qz veinlets [illegible] dolomite, [illegible] Narrow zones of [illegible] alteration, [illegible]
V541573	.005	465	5.0												
V541574	.135	470	5.0			Gnd	–	[illegible]	[illegible] 60°	–	–	–	qz cl.		
V541575	.038	475	4.8			Gnd	–	3' [illegible]	55°	–	–	–	qz carb.		
V541576	.005	480	4.5			Gnd	–	3 5'	75°	–	–	–	qz carb.		
V541577	.010	485	5.0			Gnd	–	3 [illegible]	60°	–	–	–	qz cl.		
V541578	.025	490	5.0			Gnd	–	3 5'	70 40°	–	–	–	qz [illegible]		
V541579	.122	495	4.5			Gnd	–	1 [illegible]	70°	–	–	–	qz		
		500													

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LOGGED BY: J.T. Caley

DATE: 10/15 -

SUMMARY:

PROJECT: Dublin Gulch
HOLE NO. DG-91-14 DRILL TYPE 37A
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 410
BEARING 0 INCLINATION -50

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
No Sample		0	—												Surface/overburden - rotary, set casing @ 22'
		22	3.0			Grd	Fsh/Fox	N/A	—	—	—	—	—	—	22-30': Bio-Grd, lt. gray, strong Lim stain, decomposing - no veining but strongly broken - fracture density >10/ft.; bio to Fox-Grd. decomposing to gruss.
J54 601	.200														
602	1.509	30	4.5			Grd	"	<1/ft.	0/10	—	—	Lim	$CaCO_3$ Ser.	—	30-35: Bio-grd. as abv. - lim. stain pervasive strongly decomposed.
		35	3.8			Grd	"	<1/ft	10/60	—	—	Lim	—	—	35-40: Bio-grd. as abv. - weathering still intense; numerous 0 & 70° to C.A. Lim stnd. fractures; qtz. veins are narrow - milky variety; fracture density >10/ft.
603	1.701														
		40	3.7			Grd	"	<1/ft	"	—	—	Lim	—	—	40-45: As Abv. - intense weathering and oxidation - few solid pieces recovered decompose to gruss on handling.
604	.703														
		45	3.8			Grd	"	1/ft. milky	40/70	—	Py	Lim	Ser	—	45-50: Grd - as abv. - wk. ser. alt. of feldspars but still Fsh & Fox stnd.; 45-49 very strongly broken but no clay gouge - just decomposing; @ ~47' .5" 0% C.A. FeOx fracture cuts & offsets milky qtz vein. —
605	1.631														
		50	4.0			Grd	"	1/ft. milky	40/70	—	Py Aspy	Lim	Ser	—	50-55: Grd. as abv. - feldspars wk. ser. alt., vertical & 10° to C.A. discontinuous fractures filled w/ $CaCO_3$; fracture density >10/ft. @ 0, 50, 70° to C.A. w/ Lim ± $CaCO_3$ —
606	1.507														
		55	4.0			Grd	"	<1/ft milky	40/70	-	Py Aspy	Lim	Ser	—	55-60: Grd - as abv. - calcite filling discontinuous narrow fractures 0-10° to C.A. & coating large fractures w/ Lim; Note: when rock broken, fractures also exhibit slicks in various directions - fracture density >3/ft.
607	1.910	60													

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DATE:

SUMMARY:

PROJECT

HOLE NO. ZG-91-14 DRILL TYPE 37A

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 410

BEARING 0° INCLINATION -50

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
√54 608	2.126	60–65	1.0			Grd	Feh/FeOx	1/ft.	40 & 70 milky	—	Py Mpy	Lim	Ser	—	60-65: Bio-Granodorite, med-grained w/~15% med. euh & subh. bio.-qtz & wk. ser. alt. feldspar; Calcite-Lim filling through going 0-10° to C.A & discontinuous fractures -
609	1.612	65–70	5.0			Grd	Feh/FeOx	1/ft	40 & 70 milky	—	Py Mpy	Lim	Ser	—	65-70: Bio-Grd. - intensely fractured w/ frs. filled w/ CaCO3-Lim; milky qtz vns. X-cut & offset by post-milky qtz vn. fracturing. Fracture density > 3/ft. -
Control 610 611	1.937	70–75	3.0			Grd	"	<1/ft	"	—	"	"	"	—	70-75' Bio-Grd. as abv. - intensely broken & poor core recovery 70-72; 72.5-73.5;
612	.771	75–80	4.0			Grd	"	1/ft.	40 & 70 milky	—	"	"	"	—	75-80' Bio-Grd. as abv. - mod. fractured @ 2/ft. @ 60° to C.A.; post milky qtz. vein fracturing w/ Lim/CaCO3 continues; 4 ft. mud seam in interval 67-77 ft.
613	.137	80–85	3.5			Grd	"	<1/ft	"	—	"	" Hem	"	—	80-85: Bio-Grd. as abv.; @ 80.5 - bright hem. filled fx. @ 30° to C.A. - fracture den. > 5/ft, random (30 & 60, 80).
614	.588	85–90	2.0			Grd	"	<1/ft.	40	—	Py	Lim	Ser	—	85-90: Bio Grd as abv. - intensely broken zone above fault zone. fx density >10/ft.
615	.197	90–95	.5			Grd	"	?	?	—	?	?	?	—	90-95: Grd - intensely broken - poor core recovery - intense FeOx stain - no qtz vns.
616	.514	95–100	2.5			Grd	FLT Gouge FeOx	<1/ft. Gray	90	—	Py Jam?	Lim	Ser	—	95-100: clay gouge 95.5-96.5 & 97.5-98.0; gouge is clay w/ ang. rock frags; 98.0-100 st. phy. alt. Grd. abv. 4.0" qtz-Py ± Jam. vn. w/ contacts 30° to C.A.;
617	1.195	100–105	4.2			Grd	Clay Phy	<1/ft Phy	30	—	Py	Lim	Ser	—	100-105: Clay alt. and healed fracture zone below strong phy zone 100-101; 101-102.2 healed fault zone w/ frags. silic/FeOx Grd. in clay matrix; 102.5-105.0 - clay alt. w/ gouge 103'-105.

LOGGED BY: JTG

DATE: 10/15; 10/16

SUMMARY: Abundance of Calcite in fractures could be sign of weak prop. alt. - outer shell - for upper 155 ft. hole, rock is so intensely fractured from fault action and structural / tectonic, rock barely remains together; From surface to ~155 - feldspars bleached & seemingly clay alt., locally weakly sericitized - could be weak arg. or weathering!

PROJECT
HOLE NO. DG-91-14 DRILL TYPE 37A
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 410
BEARING 0° INCLINATION -50
PAGE 3 OF 11

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
618	1.130	105–110	4.2			Grd	Fsh ? clay Fox	<1 / ft.	40	—	Py	Lim	Ser	—	105-110: Footwall fracture fault zone. below fault zone in 100-105 interval; interval broken w/ 2 & 3" clay seams, angular frags and totally broken zones, many w/ slick on fracture surface; Caloz on 0° to C.A. fractures
619	.636	110–115	3.5			Grd	Fsh Clay?	<1 / ft	40	—	py	Lim	Ser	—	110-115: Continuation of zone abv.
CONTROL J54620; 621	.684	115–120	5.0			Grd	Fsh Fox clay?	<1 / ft. milky	30	—	py	Lim	Ser	—	115-120: Bio-Grd. - med. grained w/ 15% euh. & subhed. bio w/ 30% qtz & 55% feldspar (hematite-rich (clay/ser?)) - Cut by .3-.4" milky qtz ± py vns. cut by Lim-Caloz fractures; fracture den. 2/ft. 30 & 70° to C.A. bottom 2 ft. intensely broken and clay? alt.
622	.368	120–125	5.0			Grd	Fsh Fox clay?	<1 / ft. milky	50	—	Tr py	Lim	Ser	—	120-125: Bio-Grd as abv. - Caloz - Lim fractures abndt; 122-123 Grd. strongly broken - fracture density 2/ft. w/ fractures 40 & 60° to C.A. w/ Lim ± Caloz -
623	.381	125–130	4.0			Grd	Fsh Fox clay?	<1 / ft milky	50	—	Tr py	Lim	Ser	—	125-130: Bio-Grd as abv.; 127-127.5 Gray clay & ang. frags. in fault gouge; fractures in milky qtz vns. filled w/ Lim ± Caloz; fracture density 3/ft. 30° & 60° to C.A.
624	.238	130–135	4.5			Grd	Fsh Fox clay?	<1 / ft milky	50	—	Tr py	Lim	Ser	—	130-135: Bio Grd: as abv. - Still rusty lim. coating + Caloz filled fx. - fracture den. 5/ft @ 0, 20, 40 to C.A.
625	.471	135–140	5.0			Grd.	Fsh Fox clay?	<1 / ft milky	50	—	Tr py	Lim	Ser	—	135-140: Bio Grd as abv. fracture den. 3 up to 8/ft. - 20° & 40° to C.A. w/ Lim ± Caloz

10/15 — 10/16

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DATE: 10/16

SUMMARY: Note: most fractures show breakage at ∡ to C.A. specified by slicks at ∡ to the main fracture – a very structurally broken section of rock; below 155 oxidation rapidly decreasing

PROJECT: Dublin Gulch
HOLE NO.: DG-91-14
DRILL TYPE: 37A SKID
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 410
BEARING: 0°
INCLINATION: -50

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		140	5.0			Grd	Fsh clay ? FOx	<1/ft Milky	40 & 50	—	Tr Py	Lim	Ser	—	140-145: Bio-Grd. gray & limonite orange, med-grained bio.-Grd. w/ 10% euh. & subhed. bio, med. subhed. feldspar ±40-45% & quartz; feldspars weakly alt. to ser. and/or clay; Grd cut by milky qtz ± py veins that are cut & locally offset by series of randomly oriented Lim-CaCO3 fractures (need thin sections to det. alt.) – interval strongly broken – fracture density >10/ft.;
J54 626	.115														
		145	5.0			Grd	Fsh clay FOx	<1/ft milky	40 & 50	—	Tr Py	Lim	Ser	—	145-150: Bio-Grd as abv.; 145-147 intensely broken (>10/ft) & 148-150 (>10/ft); grd w/ qtz vns. broken & fx. filled w/ lim ± CaCO3 + CaCO3 veinlets X-cut. milky qtz ± py vns.
627	.093														
		150	5.0			Grd	Fsh clay FOx	<1/ft milky	40 & 50	—	Tr Py Aspy	Lim	Ser	—	150-155: As Abv. 150-151 – intensely broken; 151-153.5 – rehealed fault zone, w/ ang. frags. qtz vein material and grd. cemented w/ CaCO3 and crushed rock.; 153.5-155.0 – Fsh. Grd-
628	.072														
		155	5.0			Grd	Fsh / wk clay wk FeOx	<1/ft milky	40 & 50	—	Tr py Pyr	Lim	Ser	– Bi? Aspy	155-160: As Abv. w/ local biotite segregations to 2"; irregular shapes & along fractures @ 157.5; fractures w/ Lim ± CaCO3 30° & 10° to C.A.; @ 158.5-159 – 1.5' interval of phyllic alt. w/ Tr. diss. aspy or bi? –
629	.068														
Control J54630		160	5.0			Grd	Fsh wk FeOx	<1/ft milky	30 & 50	—	Tr Py	—	Ser	Tr Py ± Aspy	160-165: Bio-grd. w/ wk. ser. alt. feldspar & very weak Lim stain; CaCO3 fracture fillings decreasing; local irregular shaped bio-rich inclusions w/ fine-brown biotite (2ndry?) local SiO2 flooding adj. to qtz-ser ± py veins
631	.103														
		165	5.0			Grd	Fsh	1/ft. milky	50	—	Py Pyr Aspy	—	Ser	Tr. Py Cp Aspy	165-170: Bio-Grd. as abv. w/ local zones SiO2 flooding adj. to local veins;
632	.071	170													

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DATE:	

SUMMARY: Between 205-215/220 rapid chang from Fsh/clay?/FeOx to phyllic alteration - Qtz-ser envelopes w/ gray-qtz Kspar veins w/ Aspy, prr, py, Cp ± Bi? - transitional zone very broken - faulted? Lim/hem coatings on fractures -

PROJECT	Dublin Gulch		
HOLE NO.	DG-91-14	DRILL TYPE	BTW
E. COORD.		N. COORD.	
ELEV.		TOTAL DEPTH	410
BEARING	0°	INCLINATION	-50

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54633	.078	170–175	5.0			Grd	Fsh? Phy?	<1/ft. milky	50	—	Py Prr Aspy	—	Ser	Tr Py Prr	170-175: Gray, med-grained bio-grd w/ 10% med. euhedral & subhed. bio ± hbnd, 40-45% Feldspar & 40-45% quartz w/ minor trace diss. Py/prr; cut by local .25 to .5" qtz-ser ± sulfide vns. 50° to C.A.; local SiO_2 flooding adj. to veins out .5" — feldspars wk. ser alt.
634	.053	175–180	5.0			Grd	Fsh/Phy	1/ft. milky	50	—	Py Prr Aspy	—	Ser	Tr. Py Prr Aspy? Bi?	175-180: Grd as abv. w/ local Lim & Caco3 on fracture surfaces; strongly broken 175-177; fracture density 4/ft., 60° to C.A.;
635	.181	180–185	5.0			Grd	Phy?	1/ft. milky	50	—	Py	—	Ser	Tr Py Prr.	180-185: Grd. as abv., strongly fractured & broken 180-182.5; Lim + Caco3 on fractures 0° & 60° to C.A.; fracture density 5/ft.;
636	.052	185–190	4.5			Grd	Fsh Clay FeOx	4/ft	?	—	Py	—	Ser	Tr Py	185-190: Bio-Grd. - bleached, Fld. + Lim & Caco3 on fractures @ 10 & 30° to C.A. - intensely broken w/ fracture density >10/ft.
637	.073	190–195	3.5			Grd	"	<1/ft	?	—	Py	-	Ser	Tr Py	190-195: fault gouge + rock frags. of very sheared/fractured grd. - upper contact on brecc[illegible]
638	.101	195–200	3.5			Grd	poor	<1/ft	?	—	Py	-	Ser	Tr Py	195-200: crushed, clay zone to 197.0; 197-200 - broken grd w/ ser. alt. feld. -
639	.113	200–205	4.0			Grd	Fsh	1/ft milky	45	—	Py	-	Ser	Tr Py	200-205: Bio-Grd. with increasing feldspar alt. to ser; vein envelopes w/ qtz-ser envelopes locally overprinting local zones; fracture density > 4/ft. @ 0, 30 & 45° to C.A.;
Original J5164/0 ; 641	; .077	205–210	4.5			Grd	Fsh	1/ft milky	15 ; 15	—	Py Cp	-	Ser Feld.	Tr Py	205-210: Bio Grd. - as abv. w/ fracture density 6/ft. @ 0, 30 & 60° to C.A. w/ Lim & Caco3 coating fractures; Slick at ~ 90° to fractures

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DATE: 10/16-

SUMMARY: Xbr: Lim/carbonate alt. mix phy alt. 230-235;

PROJECT

HOLE NO. DG-91-14 DRILL TYPE 57A

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 410

BEARING 0° INCLINATION -50

PAGE 6 OF 11

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54 642	.059	210	5.0			Grd	Phy Broken	~1/ft milky	30 & 45	—	Py cp	Lim	Ser	Tr Py	210-215: Bio-Grd: gray, med.-grained w/ 10-15% med. orh & subhed. biotite & equal proportions feldspar (b ser.) & qtz; cut by ~5 nos of milky gray qtz ± ser ± sulfides that are cut by post qtz veins lim-calcite [illegible] fractures. Interval intensely broken 212.5-215.0 - >10/ft, w/ lim, hem ± CaCO3 - all random;
643	.055	215	4.0			Grd	Phy Broken	~1/ft milky	30 & 45	—	Py	Lm	Ser	Tr Py	215-220: Bio-Grd. as abv. - interval intensely broken >10/ft, w/ lim ± CaCO3 @ all random.
644	.156	220	4.0			Grd	Phy w/ Phy	<1/ft milky	30 & 45	—	Py	Lim	Ser	Tr Py	220-225: Bio-Grd. - [illegible] w/ [illegible] [illegible] overprints 20% Phy (qtz > ser) interval strongly broken 220.0-222.5; 222.5-224.0: 224.0-225.0 - [illegible] phyllic overprint bio still unaltered. fracture density >6/ft. [illegible]
645	.126	225	5.0			Grd	Phy (Bio)	2/ft gray milky	30 & 45	—	cp Py Tr	Lim CaCO3	Ser Fl/gd	Tr Py Dspy	225-230: Bio-Grd, as abv. - [illegible] vein [illegible] but interval strongly broken; [illegible] [illegible] 0°, 30°, 60° to c.a.; qtz > ser [illegible] to milky qtz veins + [illegible] k spar. Fracture density 6/ft.
646	.485	230	4.5			Grd	Phy	~1/ft	30 & 45		Py Dis cp	Lim	Ser	Py Dspy	230-235: as abv. to 231 (i.e., [illegible]) 231-235 - strong phy alt. - ser - qtz (phyllic) - all bio-destroyed. [illegible] [illegible] Phy alt. [illegible] [illegible] [illegible] [illegible] w/ [illegible] ser alt. [illegible] filled fractures [illegible] phyllic alt. - fracture den. 2/ft.
647	.081	235	5.0			Grd	Fsh	~1/ft milky gray	30	—	Py Tr Dspy	Lm	Ser Kspr	Py	235-240: Bio-Grd - abrupt [illegible] to fsh. w/ local 3-4" zones strong Phy (ser > qtz); local gray veins w/ phy env. or qtz Kspr. fracture dens 4/ft.
648	.013	240	5.0			Grd	Fsh	2/ft milky clear	30 & 45	—	Py Tr Dspy cp		Ser Kspr	Py	240-245: Bio-Grd. - [illegible] [illegible] ser. cut by series of clear qtz - [illegible] w/ qtz k spar envelopes - lim only. random. 2/ft.
		245													

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DATE: 10/16/17

SUMMARY:

PROJECT

HOLE NO. DG 91-14 DRILL TYPE 37A

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 416

BEARING 0° INCLINATION

PAGE 7 OF 11

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
							245	5.0			Grd	Fsk wk Phy	2/ft Brn	30 & 45	..	Py Pr Aspy	Lim	Kspar Ser	—	245–250': Bio Grd. [illegible] w/10–15% med.-grained bio. [illegible] [illegible] fault gouge / Qtz [illegible] vns. w/ .5 [illegible] silica [illegible]
CH 649	.131																			fracture density 3/ft. w/ limt [illegible]
CONTROL J54650							250	5.0			Grd	Fsk wk Phy	2/ft Brn Clear	30 & 45	—	Py Pr Aspy	Lim	Kspar Ser	Tr Aspy Bi?	250–255: Bio Grd, as above. fracture density 3–4/ft. [illegible] all veins [illegible] silica – frac. density [illegible]
651	.153						255	1.5			Grd	Fsk	5/ft milky Gray	30 & 45	—	Pyr Aspy		Kspar Ser Calcite	Tr Apy	255–260': Bio-Grd. as above – [illegible] [illegible] Lim stains [illegible]
652	.043																			continuing; Qtz Kspar [illegible] @ 257.5 [illegible] .5" [illegible] frac. den. 5/ft.
							260	4.5			Grd	Fsk	[illegible]/ft Brn	30		Py Pyr		Kspar Ser [illegible]	—	260–265': Bio-Grd. – as above; [illegible] strongly fractured w/ [illegible] fractures [illegible] to C.A. [illegible]
653	.112																			fracture density >5/ft.
							265	4.0			Grd	Fsk	[illegible]/ft Brn			Py Apy		Kspar [illegible]	—	265–270' [illegible]
65[illegible]	.060																			fracture den. >5/ft. ; [illegible]
							270	5.0			Gr	Phy	[illegible]	30		Pyr Py Apy		Kspar Ser [illegible]	—	270–275: Bio-Grd. as above – [illegible] w/ two [illegible] feldspar [illegible] / [illegible] by [illegible] Kspar [illegible] – fracture [illegible]
65[illegible]	.065																			[illegible] 3/ft. ; Note: Clear qtz vn. cuts [illegible]
656	.096						275	5.0			Grd	Phy	2/ft Gray Clear	30	—	Pyr Py Apy?		Kspar Ser Carb		275–280': Bio-grd. as above – pervasive phyllic except along veins where more Kspar & numerous [illegible]
							280													

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LOGGED BY: [illegible]

DATE: 10/17

SUMMARY:

PROJECT [illegible]

HOLE NO. [illegible]

DRILL TYPE

E. COORD.

N. COORD.

ELEV.

TOTAL DEPTH [illegible]

BEARING 0°

INCLINATION -50

PAGE 3 OF 11

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		280	5.0			Grd	Fsh	[illegible]	[illegible]	—	Py Pr Kspr	Lim	Kspr Ser Sero	Tr Py Kspr	280-285: Bio-Grd. [illegible] mtr-sized, w/ bio ± hornblende [illegible] feldspar, quartz, cut by clear & milky [illegible] Kspar/CaCO3/Ser ± sulfides - local intervals and breccia w/ lim [illegible] on fractures @ 80° to CA; @ [illegible] 1" [illegible] Kspr - [illegible] cut by later [illegible] veins; [illegible] [illegible]
[illegible] 657	.093														[illegible]
		285	5.0			Grd	Fsh	2/ft	40		Py pry		Kspr	"	285-290: [illegible] 287-288 [illegible]
658	.081							milky clear					[illegible]		[illegible] 3/ft
		290	5.0			Grd	Fsh	1/ft milky clear	40		Py	Sch	Kspr Ser	"	290-295: Grd as abv. local 3-5" [illegible] Phyllo alt. (sericite) zones [illegible] [illegible] — fracture density 2/ft.
659	.069														
659 COMP/POL		295	4.8			Grd	Fsh	1/ft grey milky	40	—	pry	Sch	Kspr Ser	"	295-300: Grd as abv. — [illegible] fracture density 3/ft.
660	.063														
		300	4.5			Grd	Fsh	1/ft gray	40	—	Py pry Kspr	Sch	Kspr Ser bio	"	300-305: Grd as abv. - cut by [illegible] .02" [illegible] 10° to C.A. [illegible] CaCO3 fractures; density 2/ft [illegible] 50° to CA [illegible]
661	.052														
		305	5.0			Grd	Fsh	1/ft gray	40	—	Py Pr Kspr	Sch	Kspr [illegible] lim	"	305-310: Grd as abv. - [illegible] fracture density 2/ft.
[illegible]	.083	310													

Form File FM_DH03

LOGGED BY:

DATE:

SUMMARY:

PROJECT
HOLE NO. DG [illegible] DRILL TYPE [illegible]
E. COORD. N. COORD.
ELEV. TOTAL DEPTH [illegible] ft
BEARING 0° INCLINATION -50°
PAGE 7 OF 11

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		310	5.0			Grd	Fsh	2/ft gray	30	—	Py Po Aspy?	Sh?	Espn Sx ankr bio	Tr Py Tr Aspy	310-315: Bio banded grd: [illegible] or pervasively silicified [illegible]
V54 664	.115	315													10° to C.A. [illegible] fracture density 3/ft [illegible]
665	.190	320	5.0			Grd	Fsh	2/ft gray	30	—	"	"	"	"	315-320: As Abv. fracture density 2/ft. Lim + CaCO3
666	.116		4.3			Grd	Fsh	1/ft " gray	30 to 10	—	Py Po Bi?	Sh	Espn Sx ankr bio	"	320-325: As Abv. - fracture density 3/ft. Lim + CaCO3 fractures [illegible]
667	.090	325													
			5.0			Grd	Fsh	1/ft gray	[illegible]	—				"	325-330: As Abv. [illegible] 3/ft [illegible] 327 [illegible]
668	.131	330													[illegible]
			5.0			Grd	Fsh	[illegible] gray	[illegible]	—	Py Po Bi?	Sch	Espn Sx ankr bio	"	330-335: As Abv. - fracture density [illegible] [illegible]
669	.041	335													[illegible]
micro 335/49?			4.0			Grd	Fsh	1/ft gray	[illegible]	—	"	"	"	"	335-340: As Abv. [illegible] 3/ft Lim + CaCO3 [illegible]
671	.044	340													338.5-354 [illegible]
			1.5			Grd	Fsh	1/ft gray	[illegible]	—	Py Po Aspy Bi?		"	"	340-345: As Abv. - fracture density 3/ft [illegible]
672	.040	345													[illegible]

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LOGGED BY: JTG

DATE: 10/17

SUMMARY:

PROJECT Dublin Gulch

HOLE NO. DG 91-[illegible] DRILL TYPE [illegible]

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 410

BEARING 0° INCLINATION -50

PAGE 10 OF 11

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
[illegible]	.130	345				Grd	Ksh	1/ft Apy	30 to 50	—	Py Ar Apy Bi	—	Kspr Sn Tr	Tr Py Apy	345-350: granodiorite, med. grained [illegible] [illegible] fracture density 3/ft
[illegible]	.065	350	5.0			Grd	Ksh	1/ft Apy	30 to 50	—	—	—	—	—	350-355: As Abv. 352.5-355 [illegible] fracture [illegible] 4/ft. [illegible]
[illegible]	.074	355	4.5			Grd	Ksh	1/ft	35 75	—	Py Ar	—	Kspr Bio Tr	Tr Py Apy Tr	355-360: As Abv. [illegible] fracture density 3/ft.
[illegible]	.033	360	4.5			Grd	Ksh	[illegible] /ft Py	45	—	Py Ar	—	Kspr [illegible]	Tr Py Tr Apy	360-365: As Abv. [illegible] fracture density [illegible]/ft
[illegible]	.039	365	5.0			Grd	Ksh	[illegible]	[illegible] 35	—	Py Ar	—	Kspr Bio Tr	Tr Py Tr Apy	365-370: As Abv. [illegible] 3" [illegible] Bio-Qtz [illegible] fracture @ [illegible] 3/ft
[illegible]76	.038	370	5.0			Grd	Ksh	2/ft [illegible]	[illegible]	—	[illegible]	—	Kspr Bio Tr	Tr [illegible] Tr	370-375: As Abv. [illegible]
		375													

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LOGGED BY: JTG

DATE: 10/17/18

SUMMARY:

PROJECT [illegible]

HOLE NO. [illegible] 14 DRILL TYPE [illegible]

E. COORD. N. COORD.

ELEV. TOTAL DEPTH [illegible]

BEARING 0° INCLINATION -[illegible]

PAGE 11 OF [illegible]

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
[illegible] 679	.050	375	4.5			Grd	Bh.	1/ft. mlky	15 35	—	Py Pr	—	Bio Kspar Ser	Tr Py Pr Apy	375-380': Gray med. grained [illegible] Granodiorite w/ [illegible] 15% [illegible]. [illegible] [illegible] prop. [illegible] [illegible] [illegible] [illegible] and [illegible] [illegible] [illegible] fracture [illegible] 3/ft. -@ 379.6-5[illegible] fine-grained mafic [illegible] contact [illegible] 10° to C.A. - [illegible] [illegible] [illegible] [illegible]
[illegible]		380	4.5			Grd	Bh	1/ft. mlky	"		"		"	4	380-385': [illegible] [illegible] 382.9 [illegible] contact [illegible] 45° to C.A.; 383-385 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Fracture density 3/ft.
681	.043	385	4.4			Grd	Bh	1/ft. mlky	15 35	—	Py Pr	—	Bio Kspr Ser	Tr Py Pr Apy	385-390': Bio Grd. [illegible] [illegible] - [illegible] 388-389.5 [illegible] [illegible] [illegible] 389.6-390.0 - [illegible] [illegible] [illegible] - fracture density 5/ft.
682	.051	390	4.5			Grd	Bh	1/ft	15 35	-	Tr Py Pr		Bio Kspar	Tr Py Pr Apy	390-395': Bio Grd. [illegible] - [illegible] [illegible] [illegible] 0 [illegible] C.A. — fracture density 4/ft
683	.054	395	4.0			Grd	Phy	1/ft mlky	10 30	-	Tr Py Apy Bi?		Ser	Tr Py Pr Apy	395-400': Grd. [illegible] [illegible] [illegible] 395-398 - [illegible] from [illegible] [illegible] 395-398 [illegible] (≥10/ft) 398 [illegible] - fracture density
684	.037	400	5.0			Grd	Phy	1/ft mlky	30 10 30		"		"	Tr Py Pr	400-405': Bio-Grd. [illegible] [illegible] [illegible] Kspar [illegible] Ser; fracture den. 3/ft.; Chlor [illegible]. Fracture den. 3/ft.
354 725	.100	405	5.0			GRD	Phy. Bh	1/ft mlky	15 35	-	Pr Py	Lim Hem	Ser	Tr Py Pr Apy	405-410': As Abv to 407; 407-410 [illegible] [illegible] [illegible] under phy envelopes [illegible] to vns. - fracture density 4/ft. 2 Vns w/ heavy hem. 10° [illegible]. (Asp?)
		410 EOH													

Margin notes: 11/17 — 11/18

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LOGGED BY: Tony H[illegible]
DATE: Oct 15 /'89

SUMMARY: Interval consists of interlaminated slightly schistose biotite hornfels and calcsilicate bands in varying but approximately equal proportions. [illegible] locally abundant in biotite hornfels bands where it can constitute 50% of individual bands. qtz sweats and tension [illegible] <5 to 15% of 05' interval. <0.5% finely diss po in biot. hf.

PROJECT Dublin Gulch
HOLE NO. DG-89-15 DRILL TYPE HQ150 core
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 533'
BEARING /80 INCLINATION -45°
PAGE 1 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	ANG. TO C.A.	TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
							15				Interlaminated biotite hornfels and calcsilicate									
J55485 13-25'	.017											fsh							Tr po cp	15-25 Interlaminated biotite hornfels and pale green calcsilicate on mm to cm scale. Few [illegible] [illegible] foliation planes, well developed foliation - compositional banding at 45° to C.A. fine grained, diss po in bt [illegible]. <0.5%. occasional crosscutting hairline fracturing with 2mm calcsil. selvages in biot. hf. bands.
							25	3.8												
486	.005											fsh							Tr po cp	
							35	5.7												
487	.005											fsh								25-35 as above
							45	5.5											po cp	35-45 "
488	.005											fsh							Tr po cp	45-55
							55	4.5												
489	.005											fsh							Tr po cp	55-65 "
J55490 Standard							65	7.0												
491	.007											fsh							1-2% po Tr cp	65-75 " foliation 40° to C.A.
							75	9.8												

Form File FM_DH03

LOGGED BY: Tony Hitchins

DATE: Oct 15 1991

SUMMARY: Calcsilicate beds appear to be predominantly qtz-diopside ± albite ± hornblende

PROJECT: Dublin Gulch
HOLE NO.: DG-91-15
DRILL TYPE: [illegible]
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 533'
BEARING: 180°
INCLINATION: -45°
PAGE: 2 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
492	.008	75	7.9		bh c.s.		fsh							po	75-85 Interlaminated biotite hornfels [illegible] calcsilicate
493	.005	85	4.9		qtzite sch	qtzite	fsh							Tr po	85-95 Quartzite schist with minor quartz-biotite schist, foliation 55° to C.A., weak Fe and [illegible] stain, qtzite [illegible] with 0.4mm [illegible] qtz [illegible]. < 5% calcsilicate bands
494	.005	95				qtz schist	fsh								95-105 as for 85-95
495	.005	105	8.5			〃	fsh							Tr po py	105-115 Quartzite schist and biotite-[illegible] schist, foliation 45° to C.A., 5-10% qtz sweats, hairline fractures with hornblende [illegible] 90° to foliation every 20cm, [illegible] foliation [illegible]
496	.006	115	8.4			〃	fsh							po	115-125 as for 105-115; pyrite in selvage of qtz sweats and along foliation planes
497	.005	125	10.0			qtz biot sch.	fsh							<.05% po	125-135 Qtz-biot schist, foliation 45° to C.A.; laminated on mm scale.
498	.005	135	8.7												135-145 Qtz-biot schist as above with 5% calcsilicate bands, one low [illegible] qtz vein and 5 [illegible] hairline fractures
		145	9.2			〃	〃	1/10	20°		Tr py		Fe chl		

LOGGED BY: Tony Hitchins

DATE: Oct 16 1991

SUMMARY:

PROJECT Dublin Gulch
HOLE NO. DG-91-15 DRILL TYPE
E. COORD. N. COORD.
ELEV. TOTAL DEPTH
BEARING 180° INCLINATION -45°
PAGE 3 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		145				schist	local clay								145-155 Qtz-biot-musc schist with 10% pale green calcsilicate, 7 bleached hairline fractures at 30° to CA
155499	.005														
155500 Standard															154-156.5 extremely clay altered and Feox stained zone of poor recovery - probable fault
		155			fault?										
501	.005					schist	[illegible]	2/10	25-30°						155-165 Qtz-biotite schist (<5% biot) cut by bleached fractures from 1-10cm apart Feox stain on fractures
		165			15°										
502	.005					schist	fsh	6/10	30°				Fe chl	Tr po	165-175 Qtz biot schist, [illegible] 45° to CA bleached fractures cont...
		175													
503	.005					sch	fsh	2/10	20-25°						175-185 Qtz-biot schist, 25 bleached fractures in 10' cut both schist and 8cm qtz-feldsp porphyry dyke at 180' [illegible]
		185													
504	.006					sch		2/10	70°		Tr py			1% po	185-195 Qtz-biot schist
		195													
505	.014					sch		5/10	20-35°		Tr py? minor [illegible]				195-205 Qtz biot schist 1-2cm bleached selvages to milky qtz veins 20cm qtz-feldspar at 205' // to foliation pale green colour
		205			40°										
506	.005														205-215' Qtz-biot schist; 5-10% intense Feox-clay alteration
		215													

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LOGGED BY: Tony Hitchins

DATE: Oct 17 1991

SUMMARY:

PROJECT Dublin Gulch

HOLE NO. DG-91-5 DRILL TYPE HG150

E. COORD. N. COORD.

ELEV. TOTAL DEPTH

BEARING 180° INCLINATION -45°

PAGE 4 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J55507	.005	215				sch	fsh	2/10	25						215-225 Qtz-biot. schist; 5-10% qtz sweats, 2 veins with bleach selvages; <1% calcsilicate bands
508	.006	225				sch	fsh	2/10	25		moly aspy			po aspy	225-235 Qtz-biotite schist; 10% qtz sweats, bleached margins to veins, qtz veins < [illegible]
509	-.005	235				sch	fsh	2/10	25		py				235-245 Qtz-biotite schist to 240' then q[illegible] schist with minor calcsilicate to 245; pyrite part on bleached [illegible] fractures, most breaks [illegible] are the result of 1-2mm of clay alteration cut on fractures at 85° to CA
510 Standard															
511	.005	245			felsic tuff?	felsic tuff	fsh	–	–	–	–	–	–	–	245-255 Sheared rhyolite tuff? light gray colour with 2-3mm crystals of feldspar and smaller qtz grains; well developed foliation 50° to CA
512	.005	255				"									255-265 as for 245-255; sericite on foliation planes; weak FeOx on fractures
513	-.005	265				"									265-275 as for 245-255, 269'-273.5' 50% white qtz sweats with orange and [illegible] yellow and green clay alteration ([illegible] feldspar?)
514	.005	275				"									275-285 as for 245-255, 20% qtz sweats with Tr py; sericite foliation planes
		285													

Form File FM_DH03

LOGGED BY: Tony Hitchins

DATE: Oct 17 1991

SUMMARY:

PROJECT Dublin Gulch

HOLE NO. DG-94-15 DRILL TYPE HQ 30

E. COORD. N. COORD.

ELEV. TOTAL DEPTH

BEARING 180° INCLINATION -45°

PAGE 5 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J55515	.005	285	8.6			felsic and biot sch	clay seams	2/10	25-30°				ser.	py	285-295 as for 245-255; 15% qtz sweats lower contact with biotite [illegible] at 289. 289 to 295 biotite-qtz-[illegible] schist; 1-3cm mud-clay seams parallel to [illegible]; bleached vein selvages
516	.005	295	8.4			sch	"	2/10	25-30°				ser.		295-305 Qtz-biotite ± andalusite schist with scattered quartzite and qtz-[illegible] bands; 5-10% qtz sweats
517	.005	305	9.6			calc sil sch	"							po	305-315 60% Pale green calcsilicate (as conspicuous bands) 40% biotite-qtz hornfels-schist with diss po; clay alteration [illegible]
518	.005	315	9.0		50°	calc sil sch	"	4/10	5-20°						315-325 as for 305-315;
519	.015	325	9.6			"	"							py	325-335 80% calc sil 20% biot-qtz hornfels-schist; scattered calc sil-chlorite fractures and veinlets; py-FeOx on fractures
J55520 Standard															
521	.005	335	10.0			"		8/10	25°					po	335-345 70% Biot-qtz hf-schist 30% calcsilicate
522	.005	345	9.8					3/10	40°					po	345-355 Qtz-biotite schist with [illegible]; 350' [illegible]
		355													

Form File FM_DH03

LOGGED BY: Tony [illegible]

DATE: Oct 17 '9[illegible]

SUMMARY:

PROJECT Dublin Gulch
HOLE NO. DG-[illegible]-15 DRILL TYPE
E. COORD. N. COORD.
ELEV. TOTAL DEPTH
BEARING 180° INCLINATION -45°
PAGE 6 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
523	.005						355				sch								po	355-365 Qtz-biot-and. schist with [illegible] calcsilicate; qtz bands locally contorted [illegible] slightly foliated sericite alter. areas with several 10cm wide qtz. sweats
524	.005						365	9.4			sch	fsh							po	365-375 as for 355-365, 15-20% calc sil
525	.005						375	9.4		[sketch]	sch	fsh	6/10	35°					<1% po	375-385 Qtz-biot schist with 15% calc silicate bands and 25% qtz sweats; scattered [illegible] [illegible] calcsilicate [illegible]. 381-383 narrow dykes and pods of leucocratic GRD cut by qtz veins [illegible] with bleached [illegible] calcsilicate selvages
526	.005						385	9.7			sch	fsh								385-395 Qtz-biot-andalusite schist; local clay alteration of biotite on foliation planes (50° to C.A.); [illegible] [illegible] foliation planes 15-20% qtz sweats; odd 2cm chlorite patch
527	.005						395	8.7												395-405 Qtz-biot-and schist to [illegible] with [illegible] of GRD at [illegible] [illegible], 400-405 weakly [illegible] felsic tuff-[illegible]
528	.007						405	3.5			sch	weak clay								405-415 Qtz-biot schist ± andalusite; 413-415 FeOx stained clay altered bleached [illegible] fractures [illegible]
529	.005						415	9.5			sch	clay								415-425 as above with clay alt to [illegible]
							425	8.6												

LOGGED BY: Tony Hitchins

DATE: Oct 17 1991

SUMMARY:

PROJECT: Dublin Gulch
HOLE NO.: DG-91-15 DRILL TYPE: HC150
E. COORD.: N. COORD.:
ELEV.: TOTAL DEPTH:
BEARING: 180 INCLINATION:
PAGE: 7 OF:

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J55530 Standard		425			40	sch	fsh							po py	425-435' Quartz-biot-andalusite schist scattered clay seams to 0.5cm alter bands
531	.020		9.6												
532	.005	435				sch	fsh	4/10	25						435-445 as for 425-435'; bleaching along selvages of larger qtz v. and hairline fractures
			9.7												
533	.009	445				sch	fsh kaol clay	2/10	30					py	445-455 Qtz-biot schist; clay alteration of schist at 447 for 2'; py on margins of some qtz sweats and on foliation surfaces
			9.8												
534	.005	455				sch	fsh								455-465' Qtz-biot schist; 15-20% qtz sweats; foliation at 45° to C.A. but core often breaks across foliation - [illegible] in appearance
			9.0												
535	.005	465				sch	"								465-475 as for 455-465. broken and clay alteration from 473-475.3'
			9.8												
536	.005	475				sch	"								475-485' Qtz-biot schist, 15% qtz sweats 5% calc silicate bands ± garnet [illegible], feldspar, chlorite occasionally present as qtz sweats or [illegible] along margins
			9.9												
537	.005	485				sch	"							<1% po	485-495' as for 475-485'
			100												
		495													

LOGGED BY: Tony Hitchins

DATE: Oct 17 1991

SUMMARY:

PROJECT Dublin Gulch
HOLE NO. DG-91-5 DRILL TYPE HC 150
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 533'
BEARING 180° INCLINATION -45°
PAGE 8 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
J55538	.005						495				hf	silic.							<1% po	495-505 Quartz-biotite hornfels ± andalusite <5% calcsilicate; 25% qtz. sweats and veins occasionally with pyrite feldspar [illegible] interval is qtz rich, breaks across foliation and po content which still low is higher than previous 495; foliation varies from 0-40° to C.A.
J55537	.005						505													
540 Standard																				
541	.005						515				hf		3/10							505-515 as for 495-505 515-525 Qtz-biot-andalusite hornfels (70%) with interbedded pale green [illegible] (30%); quartz ± feld sweats 5%; 2mm bleached selvages to qtz veins
542	.005						525				hf									
													3/8							525-533 as for 515-525; bleached and calcsilicate selvages up to 2cm wide.
							535													533' EOH

Form File FM_DH03

LOGGED BY: T Hitchins

DATE: Oct 19 1991

SUMMARY: Core is broken with Feox and calcite on slips and fractures for entire depth of hole.

PROJECT: Dublin Gulch
HOLE NO. DG-91-16 DRILL TYPE HQ150 core
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 420'
BEARING 0° INCLINATION -45°
PAGE 1 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		0				QM									Quartz monzonite, gross textural similarity to GRD but more qtz present
			—											po	(7-10%) feldspars are less distinct and quartz matrix contact gives a less distinct uniform equigranular appearance
154 727	.019	5				QM									than the GRD; biotite are fresh and usually hexagonal in shape; cleavage commonly
			—											po	visible in feldspars; rare K spar pheno to 1cm.
728	.054	10				QM									0-15 Q.M. broken, two vein sets; veins
			4.4				Fsh	11/15'	0-5° and 45°		po cp			po	<0.5cm wide, weak K spar selvages [illegible]
729	.021	15				QM	Fsh	13/15	0-5° and 45°		po cp			po	15-20 Q.M. as for 0-15'; rusty Feox and pac sub ll to c A
Standard 730			4.3												
731	.018	20				QM	Fsh	3/15	45°		po cp			po	20-25 QM poor recovery; probably decomposed Q.M. was washed during drilling
			1.2												
732	.022	25				QM	Fsh	2/.09	45		—			—	25-30 Q.M. poor recovery; rare K spar pheno to 1cm.
			0.9												
733	.017	30				QM	Fsh	3	0-5 and 45°		Py		ser		30-35 Q.M. as above; poor recovery
			1.3												
		35													

Feox cal on fractures 0-35'

Form File FM_DH03

LOGGED BY: T. Hitchins

DATE: Oct 19 1991

SUMMARY:

PROJECT Dublin Gulch
HOLE NO. DG-91-16 DRILL TYPE HC150 core
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 420'
BEARING 0 INCLINATION -45°
PAGE 2 OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
734	.019	35				QM	fsh	6/5	35		po cp			po	35-40 QM. as above py with Feox on scattered fractures at 45° to CA
		40	3.3												
735	.140					QM	fsh	6/5?	5° and 45°		py	Feox			40-45 QM as above, still narrow K spar selvages to narrow <0.3mm qtz veins. Qtz veins at 0° and 45° are a similar light smoky grey colour and appear to be same age.
		45	2.4												
736	.137					QM	fsh	7/5	50-65		py	Feox			45-50 Q.M as above; last 1' is oxidized and decomposed
		50	4.8												
737	.083					QM	fsh	2/5'	5° and 45-50		py	Feox	ser		50-55 Q.M. as above, broken, Feox and calcite on fractures
		55	2.3												
738	.129					QM	fsh	4/5'	5 and 45-50			Feox			55-60' QM as above
		60	3.6												
739	.102					QM	fsh	4/5	50		py cpo	Feox	ser	po	60-65 as above, broken; drusy qtz in larger vein; Feox fractures 2-3cm apart
Standard J54740		65	3.6												
741	.013					QM	fsh	3/5	60		py	Feox	broken	ser	65-70 QM, broken and Feox stained calcite stop at 10° to C.A, last 1' has ? Feox frac. at 20° to C.A
		70	4.8												

35-75' Feox and cal on fractures, broken core throughout.

Form File FM_DH03

LOGGED BY: T. Hitchins

DATE: Oct 19 1991

SUMMARY: Core is very broken and Feox stained; Feox stained fractures from 1-10cm apart, usually at 20-50° to C.A. Recovery is poor - remaining pieces of core appear fresh or locally potassically altered adjacent to sulfide veins. much of the lost core was probably a sandy, decomposed intrusive

PROJECT: Dublin Gulch
HOLE NO. DG-91-76 DRILL TYPE
E. COORD. N. COORD.
ELEV. TOTAL DEPTH 420
BEARING 0 INCLINATION -45
PAGE 3 OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	TYPES: VISIBLE GOLD	TYPES: SULFIDE	TYPES: OXIDE	TYPES: OTHER	DISS. MIN.	COMMENTS
J54742	.113						70				QM	fsh?	4/5	45-60°			Feox	ser	?	70-75' -QM. Feox stained fractures 1-2cm apart at 20-70° to C.A.
								3.2												
743	.066						75				QM	fsh	4/5?	45-60		cp py	Feox			75-80' QM as above weak phyllic selvages to veins
								2.7												
744	.071						80				QM	fsh?	4/5?	50°			Feox			80-85 QM broken, Feox and clay on fractures
								1.9												
745	.056						85				QM	clay	2?							85-95 QM broken; core becomes moderately broken from 85' to 93' where it is broken into small angular pieces of a decomposed sections of Feox stained phyllic and clay altered Q.M.
								1.8												
746	.121						90				QM	clay	3				Feox			below 93' core becomes slightly more competent with pieces to 0.4'; Feox slip at 60° to CA at 93'. 93-95 weak Kspar selvages to few qtz v.
								3.6												
747	.103						95				QM	fsh	5/5	45			Feox	ser		95-100' QM broken into 0.2' pieces, Feox stained fractures at 0° to C.A. and 45-60° to C.A.; qtz veins are [illegible] below 103' core becomes more competent, fewer Feox fractures and diss py in QM is not noticed
								3.2												
748	.571						100													

Form File FM_DH03

LOGGED BY: J.T. Galey, Jr.

DATE: 10/19/91

SUMMARY: Note: Intrusion is more a Qtz monz [illegible]

PROJECT: Dublin Gulch

HOLE NO. DG-91-16 DRILL TYPE 135HC Track

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 120'

BEARING 0° INCLINATION -45

PAGE ___ OF ___

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
154748	579	100	4.9			QM	Fsh Ser	2/1ft milky clear	40-60	—	Py Pyr	Lim	En K-spar	Py Apy Pyr Po <1%	100-105: Quartz monzonite [illegible] w/ ~10-15% med.-coarse subhedral [illegible], mod. & fine coarse quartz (25%), & K-spar in a fine [illegible] (local zones [illegible]). Q-monz cut by series of milky & clear qz veinlets @ 40→60° to C.A., locally w/ open spaces [illegible] w/ [illegible] fractures [illegible] to C.A.; fractures [illegible] qz veins [illegible]. [illegible] silica [illegible] (?) at 105. .25" Qz py-lim vein [illegible] @103.5 - [illegible] 45° to C.A. cut by Qz K-spar [illegible]. [illegible] fracture density 5/ft
749	.122	105	4.8			QM	Fsh Ser	2/ft milky [illegible]	40-60	—	Py Pyr	Lim	En K-spar	Py Pyr Apy <1%	105-110: Q-M as above, - [illegible] zones [illegible] Lim + [illegible] fx. [illegible]; fracture density [illegible]
CONTROL 154750		110	4.6			QM	Fsh Ser	2/ft [illegible]	40-60	—	Py Pyr Apy	Lim	En K-spar clear	Py Pyr Apy Po <1%	110-115: Q-Monz as above, cut by [illegible] glassy qz veins that are [illegible] w/ [illegible] qz vein w/ [illegible] - other .05" vein [illegible] fracture density 2/ft
751	3.326														
752	.183	115	3.3			QM	Fsh Ser	3/1ft	40-60	—	Py Pyr Apy	Lim	En K-spar		115-120: Q-Monz as above; @ 119.0 - .15" [illegible] qz vein w/ [illegible] @ 80° to C.A.; [illegible] .5 [illegible] fracture density 4/ft. [illegible] and @ [illegible]
753	.064	120				QM	Fsh Ser	?	?		?	?	?	—	120-125: Q-Monz as above but [illegible] - [illegible]

125

Form File FM_DH03

LOGGED BY: J.T. Gray

DATE: 10/7/01

SUMMARY: Note: [illegible] [illegible] envelopes [illegible]

PROJECT: [illegible]

HOLE NO. DG-?-16 DRILL TYPE [illegible]

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 420

BEARING 0° INCLINATION -[illegible]

PAGE ____ OF ____

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
							125	2.9			QM	Bio FeOx	2/ft [illegible]	35	—	Py Pyr Cp Aspy	lim	Ser Ksp	Py X lim [illegible]	125–130: Bio-Qtz Monz [illegible] [illegible] sulfided. Bio [illegible] sub-sulfided zones and coarse feldspar in [illegible] [illegible] [illegible] Aspy; Q-Monz [illegible] milky [illegible]
754	.078																			[illegible] veins w/ Py-Pyr-Cp Aspy & local feldspar [illegible] & sulfide fractures @ [illegible] to C.A. w/ 10-15° Py/Pyr/Cp [illegible] fracture density 3-5/ft.
							130	4.8			QM	Bio	3/ft [illegible]	35	—	Py Pyr Cp Aspy	"	Ser Bio Kspar [illegible]	"	130–135: Bio-Qtz Monz, [illegible] – 130.7–133.3 w/ Qtz sulfide veins @ 35° to C.A. w/ [illegible]; @ 130.7–[illegible] [illegible] veins @ 20° to C.A. – @ 133.9 .5" vein [illegible] fracture density 3/ft. [illegible]
755	.479																			
							135	4.7			QM	Bio FeOx	3/ft [illegible]	35	—	"	"	Ser Bio Kspar	"	135–140: Q-Monz as above [illegible] [illegible] fracture density 3/ft.
756	.365																			
							140	3.6			QM	Bio FeOx	1/ft milky	35	—	"	"	"	Tr. [illegible]	140–145: Q-Monz as above; [illegible] 140–141 [illegible] [illegible] [illegible] – 143.5 [illegible] [illegible] to C.A.; 143.5–143.9 – [illegible] fault zone; [illegible] veins [illegible] [illegible]
757	.075																			
							145	4.5			QM	Bio FeOx	2/ft milky [illegible]	35	—	—	"	"	"	145–150: Qtz Monz [illegible] but veins & [illegible] sulfides decreasing; fracture density 3/ft [illegible] [illegible]
758	.147																			
							150	3.6			QM	Bio FeOx	1/ft milky	35	—	Py Pyr	lim	"	"	150–155 Q-Monz. as above – sulfides [illegible] [illegible] fracture density 3/ft; .5" [illegible] [illegible] [illegible]
[illegible]	.048																			
Original Dup 760							155	4.2			QM	Bio FeOx	<1/ft [illegible]	35	—	Tr Pyr Py	"	"	"	155–160: Q-Monz as above [illegible] 10-20° to C.A.; @157–.5 .5" Qtz [illegible] [illegible] veins @ 35° to C.A. – 155–159 – fracture [illegible] 10° & 40° to C.A. [illegible] Qtz veins.
761	.061						160													

Form File FM_DH03

LOGGED BY: L.T. [illegible]

DATE: [illegible]/19-8[illegible]

SUMMARY:

PROJECT [illegible]
HOLE NO. DG-[illegible] DRILL TYPE [illegible]
E. COORD. N. COORD.
ELEV. TOTAL DEPTH [illegible]
BEARING 0° INCLINATION -45°
PAGE OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		160	1.2			QM	Fs	<1/ft	35	—		Lim	Sr Bio	Tr [illegible]	160-165': [illegible] fractures [illegible] Q-M [illegible] 55, 40 & 70° to C.A. [illegible]
762	.051						Mod	Gray Wispy					Kspar		[illegible] ft. [illegible]
		165	4.5			QM	Fsh Mod	<1/ft Wispy	[illegible]	—	Py Pyr	Lim	Sr Bio	Tr Py	165-170': Q-M [illegible] @167.5 30° to C.A. Q-[illegible]
763	.209							Wispy					Kspar		
		170	2.9			QM	Fsh Str	1/ft Wispy	35	—	Py Cp Pyr	Lim	Sr Bio Kspar	Tr Py	170-175': Q-Monz [illegible] — @ 170.5 [illegible] 35° [illegible]
[illegible]	.080														[illegible] broken zone [illegible] Local zone K-spar [illegible]
		175	1.9			QM	Fsh Mod	<1/ft	35	—	Py Cp Pyr	Lim	"	..	175-180': Q-Monz as abv. [illegible]; broken [illegible]
765	.020														
		180	1.5			QM	Fsh Str	<1/ft Milky	35 60	—	Py Cp Pyr	Lim after Py	"	"	180-185': Q-Monz as abv. - core loss — fractures @10° to C.A. [illegible]
766	.287										Aspy				[illegible]
[illegible]	.127	185													185-190': Q-Monz as abv. extremely broken
		190	2.3			QM	Fsh Str	1/ft Milky	35	—	Py Cp Pyr	Lim after Py	"	"	>10/ft; crushed zone 187-191;
			5.0			QM	Fsh	<1/ft	45	—	Py	Lim	"	"	190-195': Q-Monz. as abv.; strongly broken to 192 [illegible] 192.3-192.5 [illegible]
[illegible]	.124							Gray Wispy							[illegible] fault zone [illegible] @35° to C.A.; [illegible] 192.8 [illegible]
		195	3.2			QM	Fsh	<1/ft	35	—	Py Pyr	Lim	"	"	195-200': Q-Monz as abv. [illegible] 195-196 & 197-197.5; abund. Lim-Calc on fractures - @196.7 - [illegible] sulfides @ 35° C.A. w/ Kspar [illegible] 35° [illegible]
769	.043	200						Gray							

Form File FM_DH03

LOGGED BY: T. Hitchins

DATE: Oct 20 1991

SUMMARY: Uniform quartz monzonite cut by sparse 1/foot greyish quartz veins usually <0.5cm wide

PROJECT: Dublin Gulch
HOLE NO.: DG-91-16
DRILL TYPE: HC 150 core
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 420'
BEARING: 0°
INCLINATION:
PAGE ___ OF ___

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
J54771	.022	200	4.5			QM	Fsh	4/5'	45		po cp	Feox		rare py	200-205 QM Feox-cal on fractures 35° to C.A. in 8-10cm spacing
772	.061	205	4.7			QM	Fsh	6/5'	5° and 45°	—	—	—		rare po	205-210 Quartz monzonite; broken from 207 to 210; minor phyllic alteration.
773	.194	210	4.2			QM	Fsh	8/5'	40-45	—	po apy	Feox	<0.5%	po cp	210-215 Q.M., Feox-cal fractures at 0° and 40-45° to C.A.
774	.058	215	4.6			QM	Fsh	7/5'	5° and 45°		po			po	215-220 QM, weak phyllic selvages to qtz veins, Feox-cal fractures at 0° and 30° to C.A.
775	.279	220	4.4			QM	Fsh	6/5'	45	—	po cp	-		po	220-225 QM Kspar selvages to qtz veins up to 1cm wide; <5% cloudy aggregates after amphibole; 224-225 Feox stained and decomposed;
776	.279	225	4.8			QM	Fsh	13/5'	5° and 35-40°	—	Tr po		ser Feox	Tr po	225-230 QM - biot and feld. [illegible] faces; rare diss po; 35-40° vein set 3 times more common than 5° set; core fractured with Feox [illegible] cracks at 0-40° to C.A. every 5-8cm, weak K spar vein selvages
777	.500	230	3.5			QM		4/5'	40°		Tr po		ser.	py cp on frac	230-235 QM with occasional K spar [illegible] 1cm, Feox on fractures at 0° and 35-50° to CA and on [illegible] at 30° to C.A.; [illegible] rare Feox stained fractures; black [illegible] selvages on fractures might be [illegible] - a [illegible] candidate might be calcite - considered unlikely
		235													

Form File FM_DH03

LOGGED BY: T Hitchins

DATE: Oct 20 1991

SUMMARY: 243-270' Biotite-qtz porphyry intruding qtz monzonite; porphyry is locally phyllic and potassic altered with avg. of 34 qtz veins per 5' interval; locally 1-2% diss po + aspy + cp in porphyry; all qtz veins are gray to smokey with sporadic sulphides.

PROJECT: Dublin Gulch

HOLE NO. DG-91-16 DRILL TYPE HQ150 core

E. COORD. N. COORD.

ELEV. TOTAL DEPTH 420'

BEARING 0° INCLINATION

PAGE OF

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.
J54778	.706	235				QM	fsh	5/5	25-40°			Feox	ser	
			3.6											
779 / J54780	.203	240				QM		1/5	?			Feox		
			3.7			BQP	fsh							
781	.143	245												
			3.6			BQP	fsh	—	—	—	—		4/8	po py aspy
782	.273	250												
			4.4			BQP	fsh	4/5	25-30°			Feox	1% <1% Tr	po aspy cp
783	.376	255												
			5.0			BQP	wk phyllic	4/5	35-40	—	—	Feox	biot	po aspy cp
784	.916	260												
			3.5			BQP	phyllic	8/5	35-50	—	py	Feox	biot ser	po aspy cp
785	.355	265												
		270	5.0			BQP	phyllic Kspar	34/5			po cp py	Feox	Fecht ser	po aspy cp py

COMMENTS

235-240 Q.M as per 230-235

240-245 Contact between Quartz monzonite and biotite-quartz porphyry, interval is very broken but porphyry appears to be slightly chilled; <10% 2mm biotite books and 2-5% rounded 0.5mm qtz grains in a light coloured feldspathic matrix; Feox and clay on fractures sub-// and at 45° to C.A

245-250' Biotite-qtz porphyry, 1cm xenolith of med grey biot-feldspar por; Feox stained fractures at 30-40° to C.A every 8cm; fracture // to C.A.

250-255 B.Q.por 3% biotite rich xenoliths or segregations some with several % aspy and po; weak sericite replacement of biot. rusty Feox-calcite fractures, some dolomite and ankerite [illegible]

255-260' B.Q.por as per 250-255; abundant Feox-clay fractures

260-265 BQporphyry, phyllic alteration, 1cm Kspar selvage to veins; 5-8cm spacing between Feox fractures at 40-45° to C.A

265-270 B.Q.porphyry, phyllic alteration, Kspar selvages and probably Kspar flooding of porphyry; veins cut by calcite stringers at 25-30° to C.A. lower contact is abrupt [illegible] at 35° to C.A

Form File FM_DH03

LOGGED BY: C. Orssich

DATE: Oct 20, 91

SUMMARY:

PROJECT: Dublin Gulch
HOLE NO.: DG-91-16
DRILL TYPE:
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 420
BEARING: [illegible]
INCLINATION: [illegible]
PAGE ___ OF ___

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	VEINS: ANG. TO C.A.	VEINS: TYPES: VISIBLE GOLD	VEINS: TYPES: SULFIDE	VEINS: TYPES: OXIDE	VEINS: TYPES: OTHER	DISS. MIN.	COMMENTS
154786	.358						270	5.0			Gnd	-	?/5'	40° / 5°		Po / CP / PY	Fe	qz / ch.l.		270-275 Medium grey, medium grained [illegible] granodiorite [illegible] Moderate narrow grey qz veinlets with [illegible], minor [illegible] with [illegible], some [illegible]
787	.561						275	4.1			Gnd	-	?	45°	-	-	Fe	qz		275-280 Gnd. Minor veins [illegible]
788	.322						280	4.7			Gnd	-	?/5'	40°	-	CPY	Fe	qz		280-285 SAA, moderate [illegible] gy qz veinlets [illegible] k-H and greenish [illegible]
789	.231						285	4.6			Gnd	-	?/5'	40°	-	CP / Po	Fe	qz		285-290 Gnd. Minor gy qz veinlets [illegible] Fe stained selvages [illegible] fractures
791	.309						290	4.2			Gnd	-	2/5'	[illegible]	-	-	Fe	qz		290-295 SAA [illegible]
792	1.543						295	4.0			Gnd	-	[illegible]	[illegible] / 40°	-	PY	Fe	qz / calc		295-300 Gnd. Moderately [illegible] selvages [illegible]
793	.951						300	4.4			Gnd	-	?/5'	40°	-		CPY [illegible]	qz		300-305 Gnd. less fractured [illegible] gy qz veinlets [illegible]
794	.635						305				Gnd	-								305-310 [illegible] gy qz [illegible]

Form File FM_DH03

LOGGED BY: C. D[illegible]

DATE:

SUMMARY:

PROJECT

HOLE NO. D6-91-16 DRILL TYPE

E. COORD. N. COORD.

ELEV. TOTAL DEPTH

BEARING INCLINATION

PAGE OF

SAMPLE NUMBER	ANALYTICAL RESULTS						DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEINS: VEIN DENSITY	ANG. TO C.A.	TYPES: VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
								5.0												306-310 [illegible] altered [illegible]
144795	.745						310	2.8			Gnd		[illegible]	45°	-			qz		310-315 [illegible], fractured and broken, clay altered [illegible] Fe stained frs, [illegible]
796	.110						315	5.0			Gnd		[illegible]	40°	-	py	Fe	qz		315-320 [illegible], then moderately fract broken [illegible] Fe stain, [illegible] py qz [illegible]
797	.216						320	4.4			Gnd		0	-			Fe			320-324.2 Gnd [illegible] [illegible] narrow [illegible] zones
798	.114						325	4.6			Gnd	cl.	0			py aspy				324.2-333 Fault zone, medium grey, crushed gnd, moderate [illegible] grey clay slips [illegible] [illegible] of clay at [illegible] 330.2
799	.365						330	4.1			Gnd	clay	5°	40°		aspy		qz		333-340 [illegible] broken [illegible] clay [illegible] minor Fe stain on frs, [illegible]
801	.327						335	4.4			Gnd		[illegible]	[illegible]		aspy		qz		
							340													

Form File FM_DH03

LOGGED BY:

DATE:

SUMMARY:

PROJECT: Dutch Gulch?
HOLE NO.: [illegible]
DRILL TYPE: [illegible]
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: [illegible]
BEARING: 0°
INCLINATION: -45°
PAGE ___ OF ___

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
		340	5.0			QM	Fsh	1/ft Milky	20-60	—	Py Po? D	Lim	K-spar [illegible] Ser	<1/2-1% Py/Aspy	340-345: [illegible] gray w/ [illegible] [illegible] feldspar [illegible] [illegible] milky [illegible] [illegible] fractures fracture density [illegible] [illegible]
[illegible]802	1.070														
803	.207	345	4.7			QM	Fsh	3/ft gray milky	20-60		"	"	"	"	345-350: [illegible] Qtz-Mono [illegible] - fracture [illegible] 3/ft [illegible] @ [illegible] [illegible]
804	.204	350	4.6			QM	Fsh	1/ft Milky	25-60	—	"	"	"	"	350-355: Q-mono [illegible] [illegible] [illegible]
		355	4.7			QM	Fsh	1/ft Milky	28-60	—	[illegible]	"	"	"	355-360: [illegible] mono [illegible] <.05 [illegible] K-spar [illegible] Aspy [illegible] @ 25° [illegible] — fracture zone w/ strong [illegible] 356-357 [illegible] to CA — fracture density 2/ft.
805	.277														
		360	5.0			QM	Fsh	1/ft	20-60		Py Po? Aspy	"	"	"	360-365: Q-Mono [illegible] - min. w/ [illegible] [illegible] K-spar [illegible] milky [illegible] 361.5 @ [illegible] [illegible]; interval 361.6 to 365.5 [illegible] [illegible] Chlorite or [illegible]
806	.060														
		365	3.2?			QM / BQP	Fsh	"	25-60		"	"	"	"	365-370: Qtz-mono [illegible] to 368 [illegible] [illegible] Gray-biotite (~8%) qtz (8% [illegible]) feldspar [illegible] — weakly [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible]
807	.077													tr. Aspy	
		370	5.0		[illegible]	BQD	Fsh	1/ft	20-60		"	"	"	"	370-375: Bio-[illegible] [illegible] broken w/ fractures >10/ft [illegible] [illegible] on fractures — [illegible] yellow ([illegible] oil)
808	.046														
		375													375-380: Bio-[illegible] [illegible] 375.5; [illegible] [illegible] w/ black [illegible] [illegible] [illegible] zone at 377.3; 377.3 - 380.0 - broken [illegible] qtz, Bio-Qtz [illegible]; fractures >10/ft
[illegible]	.258		4.7												
		380													

Form File FM_DH03

LOGGED BY: J.T. [illegible]

DATE: 10/20/91

SUMMARY:

PROJECT: [illegible]
HOLE NO.: [illegible] 16
DRILL TYPE: [illegible] Track
E. COORD.:
N. COORD.:
ELEV.:
TOTAL DEPTH: 420
BEARING: [illegible]
INCLINATION: -45
PAGE ___ OF ___

SAMPLE NUMBER	ANALYTICAL RESULTS	DEPTH	CORE RECOVERY	R.Q.D.	GRAPHIC LOG	ROCK TYPE	ALT.	VEIN DENSITY	ANG. TO C.A.	VISIBLE GOLD	SULFIDE	OXIDE	OTHER	DISS. MIN.	COMMENTS
[illegible]		380	4.8			QM	[illegible] FeOx	<1/ft	0 - 45°	—	Py tr Cp	Lim	Kspar [illegible] Ser	tr [illegible] ?	380-385' Qtz monz - [illegible] up to 10% [illegible] all to ser; qtz [illegible] one matrix of qtz + feldspar [illegible] (>10/ft) [illegible] w/ Lim + CaCO3; [illegible] after Apy? - black oxide [illegible]
811	.293														
		385	3.5			QM	[illegible]	<1/ft	[illegible]	—	"	"	"	"	385-390: Qtz monz [illegible] ([illegible]) 0-10° - 60-90° [illegible]. Lim + CaCO3 on fractures.
812	.218														
		390	4.7			QM	Phyl [illegible]	1/ft	30 - 60	—	"	"	"	"	390-395: Strongly broken 390-391; 391-392 [illegible] crushed or decomposed; 392-392.5 [illegible]
								[illegible]							@ 392.5 QM [illegible] phyllic alt. [illegible] feldspar [illegible] fracture density >10/ft to 392.5)
813	.197														
		395	5.0		QM / B-Q dike / QM / B-Q dike	QM / B-Q dike	[illegible]	1/ft	[illegible]	—	"	"	"	"	395-400: Q-Monz to 395.5; @ 395.5 [illegible] ser [illegible] sulfide [illegible]
								[illegible]						[illegible]	[illegible] Bio-Qtz dike - contact broken, intersected to [illegible] strongly broken 5/ft [illegible]
814	.314														
		400	4.6			B-Q dike	[illegible]	1/ft	15	—	Py tr Apy	Lim	—	<1% diss Apy	400-405: Bio-Qtz dike - [illegible] [illegible] fracture density >10/ft.
815	.021					Int	FeOx								
816	.453	405				B-Q Int	[illegible] FeOx	[illegible]	60	—	[illegible]	Lim		"	405-410' Bio-Qtz int. - as abv. - strongly [illegible] and broken [illegible] Apy present
817	.150	410	4.2			B-Q Int	[illegible] FeOx	—	—	—	—	—	—	[illegible] Apy	410-415: Bio-Qtz int (dike?) - as abv. - [illegible] Lim tr. @ 10 & 50° to C.A. - [illegible]
818	.085	415	5.0			"	"	—	—	—	—	—	—	"	415-420 As abv. - Strongly broken 415 [illegible] fracture den 4/ft; where FeOx and sulfide [illegible] along fracture —
		420 EOH	5.0												

Form File FM_DH03

FAX TRANSMISSION

TO: NAME ROB DEKLERK

TITLE STAFF GEOLOGIST

PHONE #

FAX # 668-4070

FROM: NAME DAVID WIEBE

TITLE MINING RECORDER mayo

PHONE #(403) 996-2256

FAX #(403) 996-2617

DATE 19 June 92

PAGE 1 OF 4

093028

LONG SHORT

Ownership record of Smoky, RD
DAVE claims etc.

Dave.

RECEIVED June 19/92
Eileen

MAYO MINING RECORDER 92.06.19 13:51:12 Page No. 1
The following QUARTZ claims are registered to V0042 Queenstake Resources Limited

Grant Numbers	Claim Names	NTS 106-D-4	Owner	Lapse Date
YA 1393 - YA 1400	R & D No. 1 - R & D No. 8		V0042	96.10.01
YA 1401	R & D No. 9		V0042	11.01.31
YA 1402	R & D No. 10		V0042	96.10.01
YA 1403	R & D No. 11		V0042	11.01.31
YA 1404	R & D No. 12		V0042	96.10.01
YA 1405	R & D No. 13		V0042	11.01.31
YA 1406 - YA 1408	R & D No. 14 - R & D No. 16		V0042	96.10.01
YA14896	Mar 1		V0042	96.10.01
YA14897	Mar 2		V0042	95.10.01
YA14898	Mar 3		V0042	96.10.01
YA14900	Mar 5		V0042	96.10.01
YA14901	Mar 6		V0042	95.10.01
YA14902 - YA14907	Mar 7 - Mar 12		V0042	96.10.01
YA14908 - YA14909	Mar 13 - Mar 14		V0042	95.10.01
YA14910 - YA14919	Mar 15 - Mar 24		V0042	96.10.01
YA14944 - YA14949	DG 1 - DG 6		V0042	96.10.01
YA14978 - YA14999	DG 35 - DG 56		V0042	96.10.01
YA17104 - YA17105	Mar 25 - Mar 26		V0042	95.10.01
YA17107	Mar 28		V0042	96.10.05
YA17108	Mar 29		V0042	95.10.01
YA17109	Mar 30		V0042	96.10.05
YA17729 - YA17745	Bob 1 - Bob 17		V0042	96.10.01
YA17770 - YA17785	Bob 42 - Bob 57		V0042	96.10.01
YA17786 - YA17801	Bob 58 - Bob 73		V0042	95.10.01
YA17803 - YA17809	Dave 2 - Dave 8		V0042	96.10.01
YA17810 - YA17811	Dave 9 - Dave 10		V0042	92.10.01
YA17812 - YA17813	Dave 11 - Dave 12		V0042	96.10.01
YA17814 - YA17817	Dave 13 - Dave 16		V0042	11.01.31
YA17818 - YA17823	Dave 17 - Dave 22		V0042	96.10.01
YA17824 - YA17825	Dave 23 - Dave 24		V0042	92.10.01
YA17826	Jeff 1		V0042	96.10.01
YA17827	Jeff 2		V0042	95.10.01
YA17828	Jeff 3		V0042	96.10.01
YA17829 - YA17881	Jeff 4 - Jeff 56		V0042	95.10.01
YA17882 - YA17893	Jeff 65 - Jeff 76		V0042	95.10.01
YA17895 - YA17910	Jeff 78 - Jeff 93		V0042	95.10.01
YA17911 - YA17913	Jeff 94 - Jeff 96		V0042	90.10.01
YA17914 - YA17920	Jeff 97 - Jeff 103		V0042	95.10.01
YA17926 - YA17929	Jeff 109 - Jeff 112		V0042	90.10.01
YA17930 - YA17972	Smoky 1 - Smoky 43		V0042	96.10.01
YA17973 - YA17975	Smoky 48 - Smoky 50		V0042	96.10.01
YA17976 - YA17981	Smoky 55 - Smoky 60		V0042	96.10.01
YA17982	Smoky 61		V0042	90.10.01
YA17983 - YA17989	Smoky 66 - Smoky 72		V0042	96.10.01
YA17990	Smoky 73		V0042	90.10.01
YA17993 - YA17995	Smoky 80 - Smoky 82		V0042	96.10.01
YA17996 - YA18000	Alec 41 - Alec 45		V0042	95.10.01

MAYO MINING RECORDER 92.06.19 13:51:12 Page No. 2
The following QUARTZ claims are registered to V0042 Queenstake Resources Limited

Grant Numbers	Claim Names	NTS 106-D-4	Owner	Lapse Date
YA30001 - YA30015	Alec 46 - Alec 60		V0042	95.10.01
YA30048 - YA30051	Alec 1 - Alec 4		V0042	96.10.01
YA30052 - YA30053	Alec 5 - Alec 6		V0042	92.10.01
YA30054 - YA30055	Alec 7 - Alec 8		V0042	96.10.01
YA30072 - YA30075	Smoky 44 - Smoky 47		V0042	96.10.01
YA30076 - YA30079	Smoky 51 - Smoky 54		V0042	96.10.01
YA30080 - YA30083	Smoky 62 - Smoky 65		V0042	96.10.01
YA30084 - YA30087	Smoky 74 - Smoky 77		V0042	96.10.01
YA30088 - YA30089	Alec 9 - Alec 10		V0042	96.10.01
YA30090 - YA30091	Alec 11 - Alec 12		V0042	92.10.01
YA30092 - YA30102	Alec 13 - Alec 23		V0042	95.10.01
YA30103	Alec 24		V0042	92.10.01
YA30104 - YA30119	Alec 25 - Alec 40		V0042	95.10.01
YA30120 - YA30127	Jeff 57 - Jeff 64		V0042	95.10.01
YA41643 - YA41648	Mole 1 - Mole 6		V0042	87.10.01
YA41649 - YA41653	Mole 7 - Mole 11		V0042	96.10.01
YA42970	Dave 25 Fr.		V0042	11.01.31
YA42971	Dave 26 Fr.		V0042	95.10.01
YA42972 - YA42973	Dave 27 Fr. - Dave 28 Fr.		V0042	11.01.31
YA42974 - YA42975	Dave 29 Fr. - Dave 30 Fr.		V0042	96.10.01
YA42976 - YA42979	Jeff 113 Fr. - Jeff 116 Fr.		V0042	96.10.01
YA42980	Jeff 117 Fr.		V0042	89.09.29
YA42981 - YA42983	Jeff 118 Fr. - Jeff 120 Fr.		V0042	95.10.01
YA42984	Mar 31		V0042	95.10.01
YA42987	Alec 61 Fr.		V0042	90.10.01
YA42988	Alec 62 Fr.		V0042	95.10.01
YA42989 - YA42990	Alec 63 Fr. - Alec 64 Fr.		V0042	96.10.01
YA42991 - YA42993	Alec 65 Fr. - Alec 67 Fr.		V0042	95.10.01
YA42994 - YA43001	Alec 68 Fr. - Alec 75 Fr.		V0042	90.10.01
YA43002	Alec 76 Fr.		V0042	95.10.01
YA43005 - YA43010	Bob 76 Fr. - Bob 81 Fr.		V0042	90.10.01
YA43011 - YA43013	Bob 82 Fr. - Bob 84 Fr.		V0042	96.10.01
YA43014	Bob 86 Fr.		V0042	96.10.01
YA43015 - YA43016	Dave 31 Fr. - Dave 32 Fr.		V0042	96.10.01
YA43017 - YA43018	Dave 33 Fr. - Dave 34 Fr.		V0042	90.10.01
YA43036 - YA43045	DG 74 Fr. - DG 83 Fr.		V0042	96.10.01
YA43046	DG 85 Fr.		V0042	96.10.01
YA43047	DG 86 Fr.		V0042	90.10.01
YA43048			V0042	. .
YA43049 - YA43053	DG 88 Fr. - DG 92 Fr.		V0042	89.10.01
YA43054 - YA43066	DG 93 Fr. - DG 105 Fr.		V0042	96.10.01
YA43067 - YA43068	JEFF 121 Fr. - JEFF 122 Fr.		V0042	90.10.01
YA43069 - YA43073	JEFF 123 Fr. - JEFF 127 Fr.		V0042	95.10.01
YA43074 - YA43077	JEFF 128 Fr. - JEFF 131 Fr.		V0042	90.10.01
YA43078 - YA43081	JEFF 132 Fr. - JEFF 135 Fr.		V0042	95.10.01
YA43082 - YA43088	JEFF 137 Fr. - JEFF 143 Fr.		V0042	95.10.01
YA43089 - YA43095	JEFF 144 Fr. - JEFF 150 Fr.		V0042	90.10.01

MAYO MINING RECORDER 92.06.19 13:51:12 Page No. 3
The following QUARTZ claims are registered to V0042 Queenstake Resources Limited

NTS 106-D-4

Grant Numbers	Claim Names	Owner	Lapse Date
YA43096 - YA43097	JEFF 151 Fr. - JEFF 152 Fr.	V0042	95.10.01
YA43098 - YA43099	JEFF 153 Fr. - JEFF 154 Fr.	V0042	90.10.01
YA43100 - YA43105	MAR 32 Fr. - MAR 37 Fr.	V0042	95.10.01
YA43106 - YA43107	MAR 38 Fr. - MAR 39 Fr.	V0042	94.10.01
YA43108 - YA43109	MAR 40 Fr. - MAR 41 Fr.	V0042	95.10.01
YA43110	MAR 42 Fr.	V0042	96.10.01
YA43111	MAR 43 Fr.	V0042	91.10.01
YA43112 - YA43119	Mole 17 Fr. - Mole 24 Fr.	V0042	87.10.01
YA43120 - YA43141	Smoky 83 Fr. - Smoky 104 Fr.	V0042	96.10.01
YA43142 - YA43143	Smoky 105 Fr. - Smoky 106 Fr.	V0042	90.10.01
YA43144 - YA43151	Smoky 107 Fr. - Smoky 114 Fr.	V0042	96.10.01
YA63876 - YA63877	Mary 1 Fr. - Mary 2 Fr.	V0042	95.10.01
YA77424	Chris 2 Fr.	V0042	90.10.05
YB03408	Jeff 117 Fr.	V0042	95.10.01
YB03409	Fiji 2 Fr.	V0042	96.10.01
YA14899	Mar 4	V0042	96.10.01
YA17894	Jeff 77	V0042	95.10.01
YA17106	Mar 27	V0042	95.10.01
YA17991	Smoky 78	V0042	96.10.01
YA17924 - YA17925	Jeff 107 - Jeff 108	V0042	95.10.01
YA17923	Jeff 106	V0042	95.10.01
YA17922	Jeff 105	V0042	95.10.01
YA17921	Jeff 104	V0042	95.10.01

FAX TRANSMISSION

TO: NAME ROB DEKLERK

TITLE STAFF GEOLOGIST

PHONE #_____

FAX #_____

FROM: NAME DAVID WIEBE

TITLE MINING RECORDER

PHONE #(403) 996-2256

FAX #(403) 996-2617

093028

DATE 18 June 92

PAGE 1 OF 5

LONG 4 SHORT 1

DEXED

RECEIVED June 18/92 Eileen

Rob: attached are maps showing drill locations of Smoky ALEX. Etc drilling program plus applications showing additional info.

Dave.

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED MAY - 8 1992 MINERAL RESOURCES EXPD. Y.T. I.A. & N.D.

OFFICE DATE STAMP

I (Name) Brian Lennan Occupation Geologist

(Postal Address) 876 Lynwood Avenue, Port Coquitlam, B.C., V3B 5W6

MAKE OATH AND SAY, THAT:-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Olive Crown Grant (MC) Lot 11 Group 1054
R.D. 5 - YA1397

situated at Dublin Gulch Claim Sheet No. 106 D - 4

in the Mayo Mining District, to the value of at least $48,657.00

dollars, since the 2nd day of October 19 91,

to represent the following mineral claims under the authority of Grouping Certificate No. MA02313

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

Lot 11, Group 1054 Olive MC
YA 1406 - R.D. 14
Lot 1002, Lease 3454 - R.D. 13
Lot 1008, Lease 3459 - Dave 14
Lot 1007, Lease 3458 - Dave 13
YA 63883 - Mary 8 Fr.
YA 14905 - Mar 10
YA 14904 - Mar 9
YA 43108 - Mar 40 Fr.
YA 14919 - Mar 24
YA 14918 - Mar 23
YA 42991 - Alec 65 Fr.

YA 30099 - Alec 20 Renew 2 yrs to Oct 1, 1995 ✓
YA 30098 - Alec 19 Renew 2 yrsto Oct 1, 1995 ✓
YA 30115 - Alec 36 Renew 2 yr to Oct 1, 1995 ✓
YA 30114 - Alec 35 Renew 2 yr to Oct 1, 1995 ✓

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

Diamond Drilling work commenced in Sept. 1991 and ended Nov. 30,1991. The holes listed here were drilled after October 1,1991.

DDH DG - 91 - 13
Footage = 500 feet
Cost = $31.74/ft.
Total = $15,870.00

DDH DG - 91 - 12
Footage = 500 feet
Cost = $31.74/ft.
Total = $15,870.00

DDH DG - 91 - 15
Footage = 533 feet
Cost = $31.74/ft
Total = $16,917.00

Total all 3 holes = $48,657.00

Amount to be applied - 4 claims x 2 yrs to each claim x $100/claim/yr = $800.00. Excess to be applied to other groupings.

Sworn before me at Vancouver, British Columbia

this 24th day of Apr.1 19 92

MICHAEL D. LUCAS
NOTARY PUBLIC, SOLICITOR
10th FLOOR, 595 HOWE STREET
VANCOUVER, B.C. V6C 2T5

Applicant.

SENT BY: IANC NAP MAYO Y T ; 6-18-92 3:42PM ; 4039962617→ 14036684070;# 3

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

I (Name) Brian Lennan	Occupation Geologist
(Postal Address) 876 Lynwood Ave., Port Coquitlam, B.C., V3B 5W6	

RECEIVED MAY - 8 1992 MINING RECORDER MAYO, Y.T. I.A. & N.D.

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT:-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Smoky 53 - YA30078
Smoky 64 - YA30082
Smoky 65 - YA30083

situated at Dublin Gulch Claim Sheet No. 106 D - 4

in the Mayo Mining District, to the value of at least $39,703.00

dollars, since the 2nd day of October 19 91,

to represent the following mineral claims under the authority of Grouping Certificate No. [illegible]

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 30078 - Smoky 53
YA 30077 - Smoky 52
YA 43153 - Smoky 96 Fr.
YA 17958 - Smoky 29
YA 17957 - Smoky 28
YA 17955 - Smoky 26
YA 17953 - Smoky 24
YA 41652 - Mac 10
YA 41699 - Mac 7
YB 18891 - West 146
YB 18890 - West 123
YB 18889 - West 122
YB 18862 - West 95
YB 18861 - West 94
YB 18835 - West 68 renew & common date 1¼ yr to Oct. 1, 1993 ✓
YB 18834 - West 67 renew & common date 1¼ yr to Oct. 1, 1993 ✓

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

Diamond drilling work commenced in Sept. 1991 and ended Nov. 30, 1991
The holes listed below were drilled after October 1, 1991.

DDH DG - 91 - 8	DDH DG - 91 - 9	DDH DG - 91 - 14	DDH DG - 91 - 16
Footage = 79 ft. drilled after Oct. 2,1991	Footage = 352 ft.	Footage = 410 ft.	Footage = 460 ft.
Cost = $31.74/ft.	Cost = $29.62/ft.	Cost = $29.62/ft.	Cost = $31.74/ft.
Total = $2507.00	Total = $10,427.00	Total = $12,145.00	Total = $14,624.00

Total all 4 holes = $39,703.00. Amount to be applied - 2 claims x 1¼ years to each claim x $100/claim/year = $250.00

Excess to be applied to other groupings.

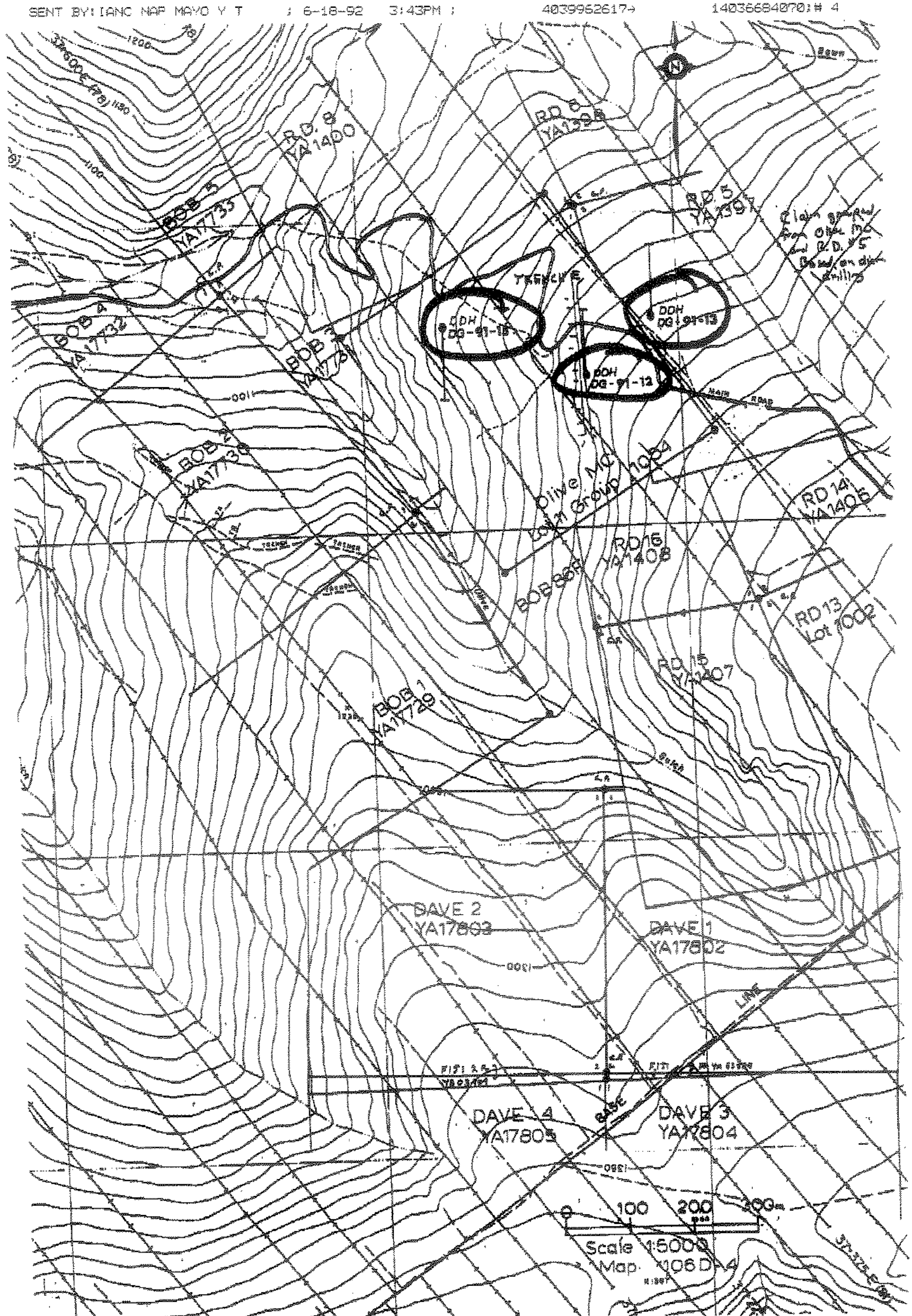
Sworn before me at Vancouver, B.C.

this 24th day of April 1992

[signature]
Notary Public

[signature]
Applicant.

MICHAEL D. LUCAS
Barrister & Solicitor
10th FLOOR, 595 HOWE STREET
VANCOUVER, B.C. V6C 2T5


R.D. 8
YA1400
RD 6
YA1398
RD 5
YA1397
Claim grouped from Olive MC and R.D. # 5 Based on diamond drilling
BOB 5
YA17733
BOB 4
YA17732
BOB 3
BOB 2
YA17730
TRENCH E
DDH
DG-91-15
DDH
DG-91-13
DDH
DG-91-12
MAIN ROAD
Olive MC
RD 14
YA1406
RD 16
YA1408
RD 13
Lot 1002
RD 15
YA1407
BOB 1
YA17729
DAVE 2
YA17803
DAVE 1
YA17802
DAVE 4
YA17805
DAVE 3
YA17804
BASE
LINE
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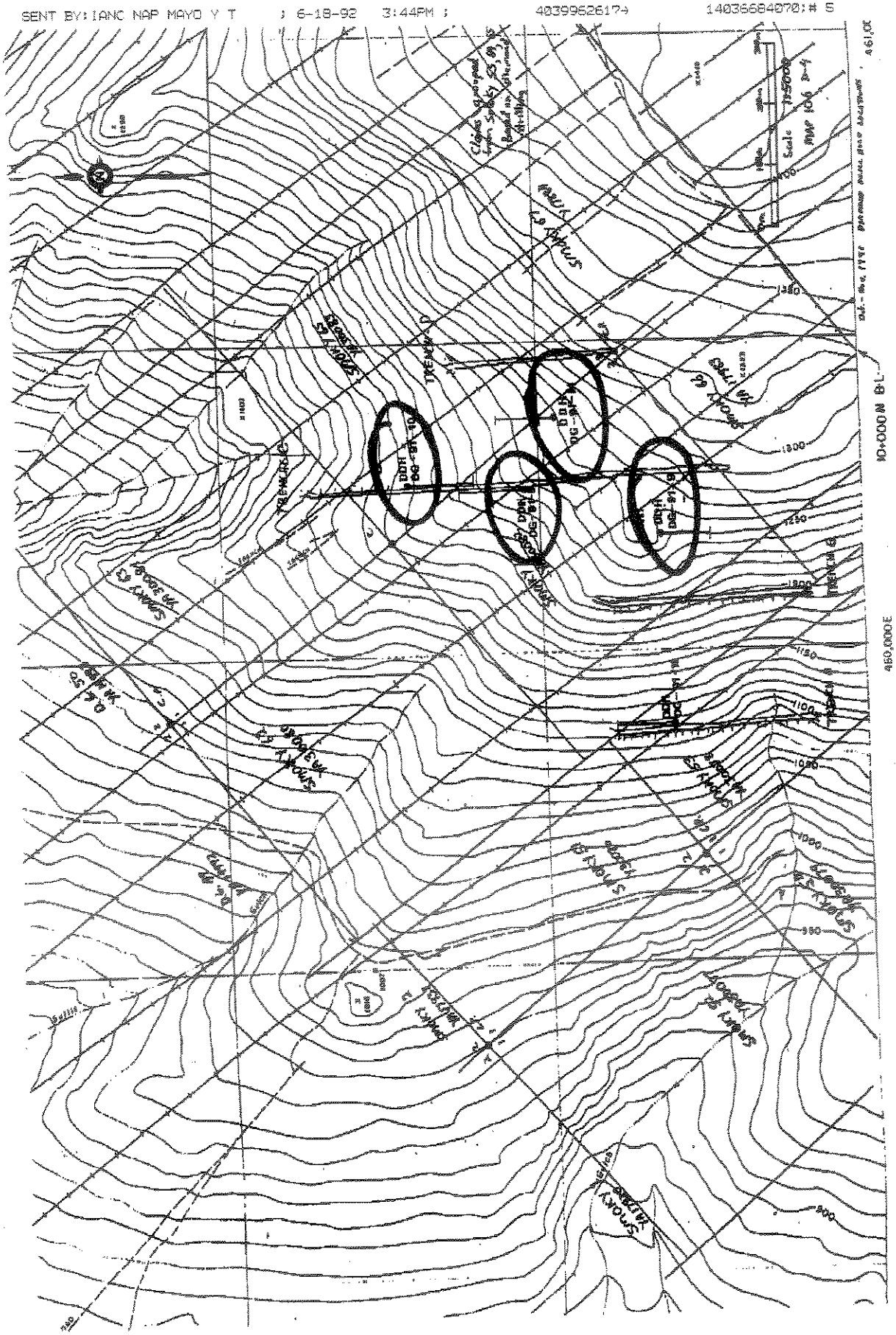
Scale 1:5000

093028


10+000 N BL
460,000E
459,000E