GM 04619-B

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Québec

CE[illegible]UGAMAU MINING AND SMELTIN[illegible]CO. INC.

DIAMOND DRILL LOG

D.D.H. K-1
Group - K
Location = L44E 68+30 S
Azimuth = 330°
Dip at Collar = 47° 20'
" 300' = 41°
" 600' = 35° 30'
Core Size - AXT

Logged by C.A. Krause,
Started - Feb. 22/56,
Completed - Mar. 5/56.

0 Casing

460

46.0 Anorthosite

Coarse grained, medium to light grey, slightly green in sections, 60 - 90% plagio. lightly alt'd. Rock is high in leucoxene (10 - 20%) which varies in colour from grey, blue, mauve and brown. Minute grains of ilmenite noted in spots. Rock is massive with a few minor fractures 65 - 70° cn. A little scat. f. min. At 55.4' a 7" dark grey, f. grained dyke 60° cn.

A 1.8' patch of transition rock at 66.0' highly chloritic and containing 20% leucoxene and scat. sulphides.

125.3' Anorthosite becomes fairly dark grey, chloritic, plagio. outlines fuzzy. Cut by a number of f. calc. stringers 15 - 20° cn. A few patches of fair po.

141.5' - Anorthosite as before except that plagio. not as fresh.

154.0' - 1 - 5% scat. po. and a little chalco. mucl of it concentrated in fracture planes 20 - 30° cn.

163.7

163.7 Amphibole - Rich Rock

Contact with preceeding anorthosite too abrupt to be a natural contact, probably a section of the core is missing.

Amphibole is fairly coarse, high chlorite in spots. Rock is dark green, massive, contains f. spots and irregular hairlike stringers of calc. 20 - 30% massive po., chalco, 5% being chalco.

Contact with following rock is gradational and several spots show faint altered plagio. crystals so this is probably a band within the anorthosite rather than an intrusive dyke.

169.7

169.7 Anorthosite

Dark grey, massive, coarse saussuritized plagio. phenos. that are shattered in places. Section contains several short patches of above amphibole rich rock. 1 - 5% scattered po., chalco.

179.5 Amphibole - Rick Rock	Similar to 163.7 - 169.7 exceptthat contact with following anorthosite is sharp at 40° cn. 15 - 20% massive po., chalco, about 5% of which is chalco.
183.0 Anorthosite	Similar tc 46.0 - 163.7 - very little scat. po., chalco, slightly chloritic. 251.0 mineralization increases, ¼" - 2" bands of massive po., and chalco. 35° - 80° cn. and scat. po. chalco. constituting up to 5% of rock. Trace molybdenite.
261.5 Q.F.P. Dyke	Fresh, medium grey, massive, numerous plagio phenos. Grain size the same across width. Contacts 0 - 10° cn. Trace chalco. & po.
263.1 Anorthosite	Massive, grey, coarse, grained. Plagio.(60-90%) much greyer than for foregoing anorthosite and cleavage surfaces fresh. Many of the plagio. crystals are shattered. Patches contain good chalcc and po. Trace molybdenite.10% leucoxene, grey to brown. Cut by a number of ½"-2" calc. and grey carb. stringers, some of which carry good po., chalco. ½" dark grey stringer@ 80° cn. carries 10% po., chalco., at 282.6'. 306.5' anorthosite-metamorphosed, becomes grey green, chloritic, otherwise similar to foregoing. 3" grey stringers (ankerite?) containing 30% po. and a littl chalco. 35° cn. at 348.0'. 7" calc. 30° cn. at 360.8 - contains a spot of sphal.
366.2 Q.F.P. Dyke	Fairly dark grey, massive, f. to med. grained, a gradation in grain size from contacts. Contains some øf. hairlike, calc. stringers and a trace of po. contacts 20° cn.
371-4 Anorthosite	60 - 90% plagio. - Coarse grained, massive, slightly saussuritized plagio. crystals with sharp outlines with dark green interstitial amphibole. leucoxene common. Sections contain gabbroic anorth. with very fresh laths of plagio. 1/8" - ¼" long giving rock a coarse diabasic texture. Other sections more metamorphosed, the plagio. having fuzzy outlines. Trace po.
394.4 Fine Grained Dyke	Very dark green almost black, very f. grained mass., probably diabase. Contains some f. calc. stringers. Contact at 20° cn.
399.3 Anorthosite	Coarse grained grey green, massive, a few short sections showing banding 20° cn. Plagio. 60-80% relatively fresh in sections, slight chloritization, 5-15% leucoxene. Scattered po., pyrite.

447.5 Anorthosite starts to become intensively altered. Plagio. crystals become fuzzy and finally become sericitized so that only their shadows remain. Rock becomes highly chloritized and carb'd., but remains massive. Scattered py. Cut by several ¼" or less calc. stringers. 6" Dyke 70° cn. at end of section (459.0') - dark green f. grained, highly chloritic, no min.

459.5

459.5 Highly Altered Rock — Dark grey green, chloritized, sericitized and carb'd. Massive at first becoming sheared after 476.0' 40 - 50° cn. Brecciated near end of sections. Patchy appearance due to calcite replacement. Probably originally anorthosite. Buff and brownish leucoxene common. A little scat. pyrite. 493.5-calc. - qtz., trace chalco., 50° cn. ~~494.6~~

494.6' - Highly altered rock as above.

505.4

505.4 Green Dyke — Sharp change from above rock, contact 0-10° cn. Fairly dark grey green, f. grained, massive, slightly chloritic, contains numerous less than 1/2" stringers and irregular patches of calc. some of them vuggy. A few minor shears 30 - 55° cn. There is a gradation of grain size from contacts. Scat. pyrite approaching end of section.

535.5

535.5 High Altered Rock — Like 459.5' - 505.4'. Brecciated appearance. Scat. pyrite.

553.0

553.0 Anorthosite — No sharp contact with preceeding rock type. Brecciation disappears. light grey, very coarse gr., massive, mottled. Rock is intensely carb'd. and sericitized. Plagio. outlines faintly recognizable but it has been almost completely replaced by calcite. Leucoxene common. A little scat. sulphide.

569.3

569.3 Highly Altered Rock — Dark grey, f. grained, massive, highly carb'd. and chloritized. Rock has a porphyritic texture due to porphyroblasts of calcite. Rock was probably originally anorthosite, at least in parts, as anorth. texture is evident at end of section, the plagio., phenos. now being chlorite. Trace py., po.

573.5

573.5 Anorthosite - Transition.Rock — Plagio 60-80%, massive, grey, coarse grained. Highly carb'd. at start but only slightly carb'd. by 578.0. Sections have coarse dark grey phenos. where the plagio. has probably been replaced by chlorite. Hole ends in medium altered anorthosite. Leucoxene and epidote are common. No Mineral.

605.9

605.9 — End of Hole.

CHIBOUGAMAU MINING AND SMELTING CO. INC.

DIAMOND DRILL LOG

D.D.H. K-2
Group - K
Location = L4E 73+00S
Azimuth = 35°
Dip at Collar = - 51°
at 250' = - 44°
at 500' = - 43°
Core Size - EXT.

Logged by C. Krause,
Started - Feb. 27/56,
Completed - Mar. 5/56.

0 Casing

65.0'

65.0' Gabbroic Anorthosite — (Transition Rock) Coarse grained, massive, medium to dark grey, in places slightly green. Contains patches of anorthosite and dark grey, chloritic, highly altered sections. Chloritic sections are slightly carb'd. and contain hair-like f. stringers of calc. at 25° cn. Epidote common.

½" epidote-calc. stringer 65° cn., 20% po., chalco. at 69.0'.

From 69.8' - 70.6' a ½" calc. qtz. stringer ll core 50% po., chalco.

73.9'

73.9' Highly Altered Rock — Dark grey, mostly f. grained, chloritic and slightly carb'd., fairly massive. Contains patches of altered transition rock. Cut by numerous f. calc. stringers at various angles to core. Core breaks at 25° cn. indicating a slight shearing. Epidote common. Contains a number of calc. stringers less than ½" carrying 20-40% po. chalco., total mineralization constituting about 2% of rock. 2" barren calc.-qtz. 0° cn. at 74.3' - contains some grey leucoxene.

89.0'

89.0' Anorthosite — Grey to white, medium-coarse grained mostly massive but spots showing a slight shearing 20° cn. Slightly chloritized, epidote common. Numerous patches of gabbroic anorthosite and highly altered gabbroic anorthosite. Only a few fine stringers containing massive po. & chalco.

133.4'

133.4' Highly Altered Rock — Similar to 73.9'-89.0'. Contains 5-8% massive po. & chalco. & sphalerite in fine stringers and irregular patches all 1" or less. Spots show banding at 50° cn.

From 136.5' - 138.9' rock is highly chloritized and sheared 20° cn. This section about 15% po. sphalerite & chalco.

4" barren white calc. stringers 80° cn. at 138. '

140.1'

140.1' Gabbroic Anorthosite — (Transition Rock) Coarse - medium grained, with altered patches, spots highly sericitic. Spots slightly banded and sheared at 45° cn. Some leucoxene. Several ½" calc. stringers 45-25° cn. carrying massive po. sphal. and chalco. From 150.8' - 152.5' about 15% po. chalco.

152.8'

152.8' Anorthosite — Grades from preceeding rock type to highly metamorphosed anorthosite with sections relatively unaltered. Medium coarse grained, massive, carb'd., chloritized. Contains a number of dark grey f. grained highly altered sections, mostly chlorite and sections of gabbroic anorthosite. Patches and stringers of po., chalco, all less than ½" are found in the altered anorthosite and chlorite sections. Numerous f. calc. stringers at start.
3" calc. 40° cn. 5 - 10% sphal at 155.1'.
From 209.6'-211.1' - 15% po. trace chalco.
From 212.2'-213.2' - 20% po. trace chalco.
From 217.1'-218.1' - 15% po. chalco.
From 221.2'-221.7' - 30% po. chalco. (~~stringers parallel to core~~)
From 245.4 - 248.0 - 30% po, chalco. (stringer // core)

257.2'

257.2' Gabbro - Anorthosite — Transition Rock - f. grained grey altered gabbro, , highly sericitic and chloritic, fairly massive. Grades in and out of short sections of gabbroic anorthosite and anorthosite. Contains a few f. calc. stringers high in po.
From 273.2' - 274.0' - 12% po. chalco.

274.6'

274.6' Anorthosite — 70-90% relatively unaltered plagio. slightly sheared 40° cn. Scattered po. py. sphal.

277.9'

277.9' Gabbro-Anorthosite — Transition Rock - like 257.2'-274.6'. Sections highly carb'd. Numerous irregular f. calc. stringers.
From 280.4'-283- 10% po. chalco. sphal.

283.8'

283.8' Anorthosite — as 274.6'-277.9' with short sections transition rock.
From 293.5' - 294.5' - 5-10% po. chalco. & sphal in f. stringers.

297.5

297.5 Gabb.-Anorthosite — Transition Rock - like 277.9' - 283.8'. Some calc. stringers with good sulphides 55° cn.
From 301.5'-303.1' - 30% chalco. po.
From 313.0'-313.7' - 25% po. chalco.
From 315.0'-319.2' - 15% po. chalco.
From 320.5'-321.9' - 10% po. chalco.
From 321.9'-325.0' - 5% po. chalco.
From 325.0'-337.6' - 10% po. chalco.

340.4'

340.4' Anorthosite — Mostly medium altered anorthosite with numerous short sections highly altered and numerous sections of gabbeo-anorthosite transition rock. Banding and slight shearing in places 50° cn. Many of the altered sections contain good po., chalco. mineralization. Cut by a few less than 1" barren calc-qtz. stringers.

364.6'
364.6' Gabbio Anorthosite

Transition Rock - like 277.9'-283.8' slight shearing and banding in places 45 - 50° cn. Some good mineralized sections in the f. gr. & highly altered parts of the core.

408.1'
408.1' Highly Altered Rock

Dark grey f. grained, chloritized, schistose and slightly sheared 50-55° cn. Contains faint patches of altered anorthosite. Cut by some f. stringers that could be albite. The rock contains patches of good massive po., and a little chalco. constituting about 5%.

423.5'
423.5' Anorthosite

High alteration with spots with medium to low alteration. In places banding and minor shearing 35-40° cn. Cut by numerous f. hair-like stringers of calc. and what might be albite. Contains numerous short sections of grey, f. grained highly chloritic & sericitic material that in spots almost appears dyke-like because of fairly sharp irregular contacts. Mineralization is mostly confined to these sections
436.4 - grey f. grained altered rock or dyke 10-15% sphalerite, chalco. & po. Sharp contact 70° cn.
439.0 anorthosite as above with a little min.
(438.7 - 439.0 lost core)

449.0'
449.0' Highly Altered Rock or Dyke

Like 408.1 - 423.5. Contact sharp at 40° to cn. Little mineral except where noted.
From 449.0 - 452.0 rock is brecciated and highly chloritic. Some shearing 80° cn. 15-20% po. chalco. in this section.

455.2'
455.2' Anorthosite

Like 423.5 - 449.0
467.8 rock or dyke 2% po. chalco.
469.5 anorthosite as above.

480.0
480.0 Highly Altered Rock

Grades from above so in part at least is highly altered anorthosite. Grey, highly sericitic in spots. Cut by numerous f. calc. stringers. In places a coarse schistosity at 40° cn. Several ½" streaks of massive po. chalco.
Lost Core - 483.2 - 484.5
485.5 - 487.0
487.3 - 490.0

491.0
491.0 Anorthosite

Like 423.5 - 449.0.
511.5 - Highly altered zone 5% po. chalco in narrow streaks. Very dark grey with faint pheno shadows probably altered anorth. Spots show a coarse schistosity 30-55° cn. Cut by numerous f. calcite stringers.
520.6 anorth. as above. Highly carb'd. approaching end of hole. Foliation in places 40-50° cn. No. Min.

552.5
552.5

End of hole.

CHIBOUGAMAU MINING & SMELTING CO. INC.

DIAMOND DRILL LOG

D.D.H. K-3,
Group K,
Location - L16W - 7930' S
Azimuth - 350°
Dip at Collar - -47° 30'
at 250' - -43° 30'
at 517' - -43° 00'
Length of Hole = 517.0'
Core Size - AXT.

Started - Mar. 1/56.
Completed - Mar. 27/56.
Logged by - C. Krause.

0 Casing

98.5'

98.5' Anorthosite — Coarse grained, massive, 80% plagio, med. alt'n.

99.3'

99.3' Green Dyke — F. grained, massive, chloritic, dark grey green. Spots show leaching of sulphides. Far contact sharp at 30° cn.

100.7'

100.7' Anorthosite — Coarse grained, massive, slightly chloritic. Cut by a number of f. calc. stringers.

102.7'

102.7' Highly Alt'd. Rock — Dark grey green chloritic. In part at least, highly altered anorthosite because faint anorthosite texture still visible. Becomes intensely chloritized and slightly sheared 40° cn. for about 12" at 106.0'. This part pitted where sulphides have been leached out. Rock grades into anorthosite at end of section. Slight shearing at 40° cn. continues to 108.0'. Scat. py. in last 6".

109.3'

109.3' Anorthosite — Light grey, slightly green due to interstitial chlorite, coarse grained massive, lightly altered coalescing plagio 70-90%. Trace scat. py. po. chalco. Cut by a few f. irreg. calc. stringers. Contains numerous patches and narrow bands of highly chloritized anorthosite showing fuzzy sericitize plagio. phenos. in places leucoxene common. Alt'd. patches and bands usually contain a little py. po. anorthosite very slightly sheared 45° cn. at 130.5'

134.0'

134.0' Highly Altered Anorth. — Dark grey, slightly green, fairly massive, chloritic. Contains a few patches lightly altered anorthosite, lightly carb'd. and in spots sericitized. Cut by numerous f. irreg. calc. & epidote stringers many of them containing good py. po. and trace chalco. Rock contains 1-3% mineral, contacts gradational. Some leaching.

(145.3'1[illegible]

145.3' Anorthosite — Like 109.3' - 134.0' but chloritic patches not mineralized.
3" barren calc. 35° cn. at 156.0'. Sections of the core badly broken up.

165.2'

165.2' Highly Alt'd. Anorth. — Like 134.0' - 145.3'. Contains extremely chloritic sections, f. grained, with no evidence of an original anorthosite texture. These sections could be altered dyke but no contact relationship noted.
166.8' contains extremely chloritic patches. 15% po. py. a few minor slips at 55° cn.
172.5' - Highly altered anorthosite - Plagio is shattered.
174.0' - Extremely chloritic, f. grained, 5-10% po. py.
175.8' - Highly altered anorthosite.
182.2' - Highly chloritic patch 30% py.
183.2' - Highly altered anorthosite.
186.9' - Highly chloritic and carb'd. band showing faint brecciation in one spot. 1-2% py.
189.4' - Highly altered anorthosite 1-3% py.
192.2' - Highly chloritic & carb'd. patch 5% chalco. po.
193.2' - Highly altered anorthosite Minor shearing 25° cn. Trace py.
196.5' - Highly chloritic patch, some sericitization 2% py. po. Some leucoxene. Faint banding at 45° cn.
199.0' - Highly altered anorthosite.

201.5'

201.5' Highly Alt'd. Zone — Abrupt change from above rock. Highly chloritic f. grained. Contains brecciated sections. Other sections show a fine lineation or shearing 20° cn. 10% po. py. and sphal. Contains numerous irreg. patches and stringers of qtz.-calc. which carry minerals. Some leaching noted.
From 203.2'-204.5' - 60% qtz.-calc. 9" qtz.-calc. at 205.3' - irreg. contacts. Trace po.

212.7'

212.7' Anorthosite — Contact with above zone not sharp. Like 109.3' 134.0'. 10" section at 220.3' contains 15-20% chalco. po. in bands 30-40° cn. This zone slightly more altered.

227.3'

227.3' Highly Alt'd. Anorth. — Like 134.0'-145.3' - 1-3% po. chalco.

236.5'

236.5' Highly Altered Zone — Dark grey green, highly chloritic. Grades from above rock. Schistose at 10-50° cn. Contains 10-20% mineralization unusually associated with irreg. spots and stringers of calc. 7" stringer at 240.7' is 60% massive magnetite with 20% po. chalco. in calc.

241.5'

241.5' Highly Alt'd. Anorth. — Like 134.0'-145.3' - 1-2% py. po.

249.9'

249.9' Anorthosite — Coalescing plagio like 109.3'. Numerous patches highly altered anorthosite, most of which carry fair mineral in streaks.
268.8' - Highly altered rock. Dark grey highly chloritic & sericitic, slight shearing 10-40° cn. Faint plagio shadows in places indicating that in part, this zone is altered anorthosite. Contacts appear sharp.

271.7' - Anorthosite as above.

4 273.6'

273.6' Green Dyke

Grey green , medium f. grained, massive, highly carb'd. chloritic. Cut by a few f. irreg. calc. stringers. No mineral. Contact sharp 50° cn.

285.0'

285.0' Anorthosite

Like 109.3' Numerous grey narrow altered bands.
286.0' - Dark grey section with gradational contacts. Very probably highly chloritized and sericitized anorthosite. Sheared at 45-55° cn. 2½" blebs of massive py. po. trace chalco. in patch of qtz. at start of section.
288.5' - Anorthosite as above.
296.3' - Dark grey f. grained highly chloritic & sericitic section or dyke. Contacts fairly sharp 55° cn. but patches of altered anorthosite included. Shearing 10 & 55° cn. 5-10% massive po.
299.2' Anorthosite as above.
300.2' - Grey chloritic section as 296.3 - 5% massive po. in streaks 10-30° cn. Trace galena sphal.
301.7' - Anorthosite - Like 109.3' but much fewer grey altered bands and patches.
321.7' - Grey chloritic highly altered anorthosite Contains irreg. f. streaks of epidote & calc. in spots. 1-5% massive po. chalco. Cut by several 1-3" white calc. stringers. 9" suspected dyke at
322.6' - Very dark grey, medium f. grained, massive, highly chloritic. Contains a little po. in calc. stringers. Contacts obscured by calc. stringers.

327.4'

327.4' Dyke

Very dark grey as above 9" dyke at 322.6' Contacts obscured by stringers. Although colour is the same as preceding highly altered anorthosite it is even textured and does not contain the faint plagio remnants. Contains about 1% massive po.

331.2'

331.2' Highly Altd. Anorth.

Like 321.7' Dark grey, highly chloritic, fairly massive, patchy appearance due to faint cream coloured plagio. remnants, cut by numerous irreg. f. stringers of calc. & massive po. Contains scat. spots of epidote? 10% massive po., trace chalco in blebs and irreg. streaks & stringers.
334.5' White and pink calcite vein 65° cn. with f. black tourmaline? and massive po. & chalco. bands in places // core. 30% mineral.
336.7' - Highly altered anorthosite as above. Irreg. patches are very siliceous.
340.8' - Anorthosite or transition rock - alteration decreases grey, slightly green, fairly mass., coarse grained. Superimposed on the faint mottling of the highly altered anorthosite are fairly fresh scat. clusters of chalky white plagio. slightly carb'd. Rock is cut by numerous irreg. f. hairs of this white albite? also by f. calc. stringers. Contains sections dark grey highly altered and sections relatively lightly altered anorthosite. Trace scattered po.

383.5'

383.5' Anorthosite

Relatively unaltered to lightly altered grades from above rock type. Very coarse grained, mass., slight shattering of plagio. at start of section. Plagio. is white to greenish white, coalescing in places, outlines mostly not sharp. Contains numerous dark grey highly altered chloritic & sericitic mottled sections which carry a little mineral, associated with the many f. irreg. calc. stringers Rock is fairly carb'd. & leucoxene is common.
452.3' - Dark grey highly chloritic section having sharp irreg. contact with above anorthosite. Faint shadows of anorthosite texture noted near contact but these disappear in several inches so this section may be partly dyke. Scat. mineral.1"-2" qtz. near end of section, trace f. mineral
453.9' Black amphibole rich section, massive, coarse grained. 80-90% chloritized amphibole with interstitial dirty white f. plagio. No mineral.
456.5' - Anorthosite - Coarse grained but not as coarse grained as preceding anorthosite. Plagio fairly fresh even though individual outlines are mostly not sharp. Rock is massive, dirty white to grey, patchy due to short sections of slightly chloritized anorthosite. Some sections have a graphic texture. Contains a few dark grey highly chloritic anorthosite sections and a number of black chlorite streaks and bands. These are mineralized usually. Leucoxene common.
501.5' - Chloritized section cut by several calc. stringers carrying 20% massive po. py.
502.6' - Anorthosite like 456.5'
503.7' - Black chlorite band 0-30° cn. carrying f. qtz. & calc. stringers with a little po.
507.1' - Anorthosite like 456.5'

517.0'

517.0' End of Hole.

DDH K

HIBOUGAMAU MINING & SMELT. & CO. INC.

DIAMOND DRILL LOG

D.D.H. K-4
Group K
Location - L44E - 6900' S - 100' W
Azimuth - 330°
Dip at Collar - 49° 30'
at 230' - 46°
at 460' - 44° 30'
Length of Hole - 461.6'
Core Size - AXT
0 Casing

Started - Mar. 6/56.
Completed - Mar. 14/56.
Logged by C. Krause.

	35.7'	
35.7' Anorthosite		60-90% grey plagio which appear relatively fresh, sharp outlines and good cleavage. Interstitial material is green, probably chlorite and reddish brown calcite. Rock is massive and coarse to very coarse grained. Cut by 2 narrow tongues of f. grained green carb'd. dyke material. No min. except for one streak of chalco at 60.5'. 90.0' plagio becomes creamy white and saussuritized and in some places shattered.
	96.2'	A coarse schistosity or shearing 20-30° cn. in a chloritized zone 10% po., chalco. 97.0' Anorthosite as 90.0-96.2'.
	124.7'	
124.7' Green Dyke		F. grained grey green massive except for slight shearing 30° cn. for 3" at 125.4'. Slightly carb'd. Trace of min. & some leaching 1" calc., barren 35° cn. at end of section.
	126.2'	
126.2' Anorthosite		Banded 50° cn. - 70% relatively unaltered plagio coarse grained, interstitial chlorite. No min.
	127.3'	
127.3' Q.F.P. Dyke		Contact 35° cn. Massive, medium grey slightly green at end, fine grained with numerous sharp felds. phenos. 1/16". No min.
	131.2'	
131.2' Anorthosite		Like 90.0' - 124.7' 170.6' Dark green f. grained chlorite dyke. Has a warped schistosity at flat angle to core. Near sharp contact at 50° cn. but far contact grades through highly altered anorthosite to anorthosite. Contains 5" qtz. vein with calcite & 5% po. along contact 35° cn. at 171.5'. 172.6' Anorthosite as above. 4" milky qtz. at 172.8' 175.0' Dark green f.g. chlorite (dyke?) Fine schisting 40° cn. Far contact obscure. Cut by fine calcite stringers carrying massive po. (20%) with tr. of chalco. 176.3' Anorthosite as above. 178.3' Dark green chlorite dyke as 175.0' to 176.3 with 1-5% po. and chalco. Contacts 65° cn., fairly sharp. 179.6' Anorthosite as above.

180.6' Dark green chlorite dyke as above with 10-15% po. and little chalco. Contacts sharp 45-50° to cn.
182.2' Anorthosite as above. Showing a few minor shears 30° to cn.

194.5'

194.5' Highly Altered Zone Mineralized

Dark green highly chloritic, in part at least highly altered. Anorthosite. In places schistose or sheared at 30° to 10° to cn.
15% massive po., and chalco associated with qtz-calc. in spots.

200.7'

200.7' Anorthosite

Light to medium alteration, chloritic, feldspar shattered, massive, contains highly chloritic mineralized sections. 5-10% total mineralization (Po. and chalco) Leucoxene common. Grades through patches of very coarse grained transition rock into gabbro at end of section.

237.6'

237.6' Gabbro (An.)

Coarse grained, massive, grey green contains patches of very coarse grained transition rock. Dark minerals are mainly coarse amphibole. Contains some highly chloritic patches and streaks. Epidote & leucoxene common. Much of the core breaks at 50° cn. indicating a slight shearing. Contains 1-5% f. black disseminated grains of ilmenite ? or magnetite? or both.

265.6'

265.6' F.P. Dyke

Grey green, chloritic, massive, grain size grades from f. at contacts to medium coarse in centre. Contacts sharp 10°-25° cn.

268.4'

268.4' Gabbro (An.)

As above 237.6' - 265.6'

275.0'

275.0' Transition Rock

Grades from gabbro through anorthosite gabbro and gabbroic anorthosite to anorthosite. Coarse grained, dark green interstices, massive, except for a few short sections with minor shearing 45° & 60° cn. Highly chloritic in places. Plagio is fairly fresh. Disseminated ilmenite? or magnetite? Contains the occassional streak of chalco & po. at steep angles to core.
277.7' - 7" Amphibolite dyke 45° cn. Dark green coarse grained sharp contacts.
280.7' - 7" Amphibolite dyke as above. Contains ½" calc. stringer with fair chalco & po.
1½" calc. stringers, 50% sphal. at 292.6'.
302.4' - 7" Amphibolite? dyke, 30% massive and po. & chalco.

334.7'

334.7' Gabbro

Like 237.6'-265.6', slightly carb'd. grades from above transition rock. Cut by several narrow calc. stringers that carry a little min.

358.5'

358.5' Calcite Vein

White to pinkish, suggestion of lineation // contacts at 50° cn. Trace light brown leucoxene & pyrite.

360.8'

360.8' Anorthosite

Highly carb'd. for first 2'. 60-90% coarse, fairly fresh greyish white plagio. Rock is massive, coarse grained, greenish. Plagio is also often greenish due to chlorite filling minute fractures in it.
There is also an appreciable amount of a reddish brown min. that reacts readily to cold H Cl. (carb'd. leucoxene)?
397.6' Anorthosite - plagio is shattered and there are a number of // minor shears almost along core.
404.0' Anorthosite as 360.8' a little minor shearing 40° cn. in spots. Epidotized plagio in places.
417.2' Alteration increases slightly, plagio. shattered and outlines are obscure. Rock is slightly carb'd. and contains a few irregular f. calc. stringers. Sheared 40° cn. and shears coated with sphal. from 422.5' - 424.1'
½" massive po., trace chalco in dark grey chloritic band at 424.4'

424.5'

424.5' Anorthosite

Anorthosite as 360.8'. Plagio becomes creamy white after 441.5' with green interstitial chlorite as before. A little minor shearing 60° cn. at end of section. This section from 424.5' might better be classed as transition rock on the anorthosite side because percentage of white mins. rarely exceeds 80%.

461.6'

461.6' End of Hole.

CI BOUGAMAU MINING AND SMELTI CO. INC.

DIAMOND DRILL LOG

D.D.H. K-5,
Group K
Location - L4E, 74+00S, 170E
Azimuth - 35°
Dip at Collar - 50°
at 300' - 47° 30'
at 580' - 45° 30'
Core Size - EXT.

Started - Mar. 6/56,
Completed - Mar. 14/56,
Logged by C. Krause.

0 Casing 41.5'

41.5' Anorthosite

Med. coarse grained Med. to highly altered. More shattered than sheared. There are roughly two directions of mild shearing 20 & 55° cn. Shear and shatter planes are black, chloritic. Where chloritization increases rock becomes a dark grey. Contains numerous narrow bands of black chlorite and some sections of relatively light altered anorthosite. Rock is slightly carb'd. throughout and some of the black chlorite patches contain narrow calc. qtz. stringers. Trace po., chalco in some of the calc.-qtz. stringers.
134.8' - Black chlorite band, schistosity at 20° cn. Contains patches of highly chloritic anorth. and mineralized calcite-qtz. stringers. Total mineral, po., chalco and sphal. about 5-10%.
137.8' - Anorthosite as above
150.5' - Black highly chloritic band with patches of highly altered anorth. and a few fine calc. stringers. Trace mineral.
155.9' - Anorthosite, as above but not as sheared
196.7' - Black chlorite band containing 15-20% po., chalco. sphal in calc. Schistose at 45° cn.

198.6'

198.6' Anorthosite

Medium, alteration. Chlorization decreases. Although shear surfaces are still coated with black chlorite, there are only a few of them. Rock still contains a few bands and sections of black chlorite and highly chloritic anorthosite. Some epidote noted. Mineral confined to highly alt'd. and chlorite patches which contain numerous f. stringers and irregular patches of calcite.
208.7 Black chloritic section, part chlorite schist., part altered anorthosite. About 10% min. Slight shearing 30' & 50° cn.
215.0' - Anorthosite as above.
219.5' - Highly altered patch 10% po., trace chalco
221.0' - Anorthosite as above but a slight increase in number of chlorite bands and shearing after 243.8'
276.0' Anorthosite, more massive again.
289.2' - Anorthosite grades to dark grey, becomes highly chloritic and carb'd. Cut by numerous irregular f. barren calc. stringers and narrow black bands of chlorite.

295.5'

295.5' Highly Altered Rock — Dark grey to black, extremely chloritic, highly carb'd. for first several feet, f. grained, schistose at 20 & 45° cn. Cut by numerous irreg. f. calc. stringers, some of which carry a trace of sulphides.
272.9' - 8" qtz.-calc. vein 25° cn. - 20% sphal. and a little po., chalco.
303.6' Rock becomes lighter grey, slightly greenish. It is still highly chloritic, slightly carb'd in spots and slightly sericitic. Cut be calc. stringers as above but showing more mineralization Short sections 10-20% min. Patches show faint anorthosite texture. Darker grey sections show schistosity at 50° cn.

332.0'

332.0' Anorthosite - Gabbro — Transition Rock - No sharp contact with above rock. Grey, green, massive, med. grained, highly chloritic. Contains small patches of anorthosite. Cut by numerous f. stringers of suspected albite. 1-5% scat. streaks and small blebs of chalco and po., A slight shearing 35-55° cn. and shattering of plagio. phenos. develops near end of section.

350.2'

350.2' Highly Alt'd. Anorthosite Gabbro — Very dark grey green, mostly massive, but in places slightly sheared 20 - 40° cn. Faint texture of preceding rock noted through whole section. Cut by a few f. calc. stringers mostly 30° cn. Contains 10-20% po. chalco in massive patches and scat. streaks.

362.3'

362.3' Gabbroic - Anorthosite — Relatively slight alteration. Transition rock, contains sections of anorthosite. Mostly mass., but slight lineation and shearing 35° cn. in some anorthosite patches, coarse grained. Slightly mineralized in scat. streaks. Rock is slightly chloritic & sericitic

396.7'

396.7' Anorthosite — Slight alteration, 70-90% plagio, coarse grained, massive, except for a few spots showing slight shearing 30-40° cn. Epidote & leucoxene in spots. A little silicification at end of section. Trace scat. mineral.

414.8'

414.8' Highly Altered Rock — Probably chloritized anorth. at start of section Last 2.5' definitely altered transition rock, Massive, dark grey, slightly green. with faint sericitized plagio. shadows distinguishable. Contains small patches relatively unaltered anorth. Contains 3 - 5% py. po. & trace chalco.

422.7'

422.7' Anorthosite — Like 396.7 - 414.8' but med. altered at end of section. No mineral.

360.8'

360.8' Anorthosite

Highly carb'd. for first 2'. 60-90% coarse, fairly fresh greyish white plagio. Rock is massive, coarse grained, greenish. Plagio is also often greenish due to chlorite filling minute fractures in it.
There is also an appreciable amount of a reddish brown min. that reacts readily to cold H Cl. (carb'd. leucoxene)?
397.6' Anorthosite - plagio is shattered and there are a number of // minor shears almost along core.
404.0' Anorthosite as 360.8' a little minor shearing 40° cn. in spots. Epidotized plagio in places.
417.2' Alteration increases slightly, plagio. shattered and outlines are obscure. Rock is slightly carb'd. and contains a few irregular f. calc. stringers. Sheared 40° cn. and shears coated with sphal. from 422.5' - 424.1'
½" massive po., trace chalco in dark grey chloritic band at 424.4'

424.5'

424.5' Anorthosite

Anorthosite as 360.8'. Plagio becomes creamy white after 441.5' with green interstitial chlorite as before. A little minor shearing 60° cn. at end of section. This section from 424.5' might better be classed as transition rock on the anorthosite side because percentage of white mins. rarely exceeds 80%.

461.6'

461.6' End of Hole.

429.8'

429.8' Anorthosite - Gabbro — (Transition Rock) light to medium alteration. Grey green, patchy, slight lineation and slight shearing 40-50° cn. in places. Contains patches of anorthosite and patches showing sericitization, also patches of massive silicified anorthosite. Contains a number of f. stringers of po., & chalco 40-60° cn.

Lost core - 438.3' - 439.4'
440.5' - 441.6'
442.1' - 443.2'

471.2' Highly altered transition rock - dark grey, highly chloritized and sericitized, schistose at 45° cn. Contains a few f. calc. stringers and irregular patches, all barren.

475.6' - Transition Rock as above.
Sericitization increases towards end of section and rock becomes med. to highly altered.

Lost core - 492.3' - 493.5'
493.8' - 495.0'
495.2' - 496.5'
497.0' - 498.2'

498.7'

498.7' Highly Altered Rock — Patches of medium to highly altered anorthosite indicate that in part at least, this is highly altered anorthosite. Dark grey, f. grained, highly chloritic, carb'd. and in sections highly sericitic. In large part schistose at 35-45° cn. Sections appear brecciated, due mostly to irreg. patches of calc. which, in patches and f. stringers constitute about 20% of this rock. Only very little of this calc. carries any mineral.
It is suspected that some of the f. grained material in this section is altered f. grained gabbro.

531.4'

531.4' Gabbro — Med. to highly altered, dark to medium grey, f. grained, mostly massive with a few short sections showing minor shearing and schistosity 50° cn. Highly carb'd. and chloritic, about 20% calc. in small patches and stringers, many of which are 45° cn. Trace mineral. Contains a few small patches of altered anorthosite.

550.4'

550.4' Anorthosite — Med. to highly alt'd. plagio outlines abliterated, slightly carb'd., some faint banding and minor shearing 45-60° cn. Contains a few small bands of highly chloritic material sheared at 45° & 60° cn. Rock contains highly silicified sections to 563.2'

573.3' - Anorthosite becomes relatively unaltered, massive with some spots showing shattered plagio. Contains brownish leucoxene. No mineral.

578.6' - Anorthosite - Alteration increases, rock becomes sericitic and in spots contains a banding of white albite (?) at 50° cn. No mineral.

580.5'

580.5' — End of Hole.

CHIBOUGAMAU MINING & SMELTING CO. INC.

DIAMOND DRILL LOG

D.D.H. K-7
Group K
Location: - Group K - L4E - 65+70' S
Azimuth: - 197°
Dip at Collar: -53°
at 250' 49° 30'
at 540' 47° 30'
Length of Hole - 543.0'
Core Size - EXT.

Started March 15, 1956
Completed March 24, 1956.
Logged by - C. Krause.

0 Casing

39.0'

39.0' Chlorite Schist. In part at least chlorite amphibole rock because of faint remnants of amphibole. Very dark green, almost black chlorite schist. Sheared mostly at 45° cn. some at 70° cn. very f. grained. Spots contain scat. leucoxene. Cut by numerous f. irreg. barren calc. stringers. Trace magnetite and py.

113.7'

113.7' Chlorite Amphibole Rock - Grades from above. Rock has a blotchy appearance due to pale green amphibole and interstitial almost black chlorite, coarse grained, massive, although spots show slight shearing 45° cn. & roughly // core and lineation 45° cn. Contains numerous almost black chlorite schist. sections and a few patches of shattered chloritized anorthosite. Scat. leucoxene and trace f. min. Contains numerous f. irreg. calc. stringers and patches.

212.0'

212.0' Chlorite Schist. Schistosity 30° cn., grades from preceding rock type. A few fine streaks of min.

215.0'

215.0' Transition Rock Grades from above rock, highly chloritic, dark green, shows rough lineation and slight shattering wherever plagio in evidence. Patches of gabbroic-anorthosite alternate with section of chlorite. Fine irreg. calc. hairs & stringers. An increase in amount of scat. streaks of min.

222.8'

222.8' Anorthosite Grades from above rock, Coarse grained, =fairly fresh plagio with chlorite interstices, mostly massive, some f. fractures // core. Contains patches of transition rock.

242.0'

242.0' Transition Rock Grades from above. Patchy appearance, patches of transition rock, alternating with sections of chlorite and fairly fresh anorthosite. Numerous spots of yellowish sericitization. Anorthosite sections show shattering and some lineation 20-30° cn. Good massive po., chalco. in a few short sections. Siliceous last 12" of section.

328.5'

328.5' Anorthosite — Lightly altered, coarse grained, whitish plagio with interstitial grey green chlorite, plagio outlines mostly indistinct, massive. No mineral.

345.2'

345.2' Transition Rock — Like 242.0'. Cut by a number of f. calc. & albite? stringers, some irreg. but many at 50° cn. A little sphal, po., chalco.

375.1'

375.1' Anorthosite — Like 328.5-345.2'. Contains a few small patches transition rock. Trace mineral in f. calc. & chlorite stringers. Some shattering noted.

383.1'

383.1' Transition Rock — Like 242.0'. First 14" of section dark grey slightly siliceous altered rock 15% po., chalco. associated with calc. stringers & spots. From 390.0'-392.0' mass., po., chalco. in a ½" irreg. qtz. stringer roughly // core. Contains a little scat. min. outside above mentioned spots.

397.2'

397.2' Highly Altered Rock — Dark grey to black, highly chloritic and sericitic, finely schistose at 45° cn. in part at least probably altered anorthosite because of faint mottling. Cut by numerous f. irreg. calc. stringers, many of which are mineralized. Contacts are obscure. Total min. less than 1%.

402.8'

402.8' Anorthosite — Like 328.5-345.2'. Contains sections of transition rock.

415.6'

415.6' Highly Alt'd. Rock — Like 397.2-402.8'.

418.1'

418.1' Transition Rock — Like 242.0
* From 425.9'-427.1' - 5-10% mass. po., chalco in minute irregular stringers.

427.3'

427.3' Anorthosite — Like 328.5' Contains many 2"-4" highly chloritic & sericitic dark grey patches and some small patches of silicified anorthosite. Some very slight shearing and a few minute stringers of po. From 526.0'-527.3'

453.9'

453.9' Highly Alt'd. Rock — Like 397.2-402.8' near contact sharp at 40° cn., possible dyke? Contains patches or inclusions of massive fresh anorthosite. Some fine shearing noted 40° cn. 1-5% po. & chalco. in f. streaks and disseminated . Rock is cut by f. calc. stringers.

457.3'

457.3' Anorthosite — Like 328.5' Contains sections of fairly fresh transition rock, sections of med. altered anorthosite and grey chloritic and sericitic sections. Scat. min. throughout section.
From 474.7-476.0 about 15% mass. po., chalco.
From 516.1-517.5 about 40% mass. py. po., chalco in chloritic section cut by f. calc.
From 518.6-520.2 about 15% po. py. chalco in f. streaks 40° cn in chloritic section.

525.4'

525.4' Transition Rock — Coarse grained, relatively unalt'd. white plagio with grey green interstitial chlorite. Grades in and out of anorthosite, transition rock and grey f. grained chloritic sections. Rock is massive but plagio often shattered leucoxene common. A little min. in some of the grey f. grained sections. ------543.0' End of Hole.--------

CF BOUGAMAU MINING & SMELTING O. INC. K-8 K-11

DIAMOND DRILL LOG

D.D.H. K-8
Group K
Location: L44W - 80+00S
Azimuth: 180°
Dip at Collar: = -54°
at 250' = 34°
at 550' = 34°
Length of Hole = 545.1'
Core Size = EXT.

Started - March 26, 1956.
Completed - APRIL 7, 1956.
Logged By - C. Krause.

0 Casing

128.3'

128.3' Anorthosite

60-90% whitish plagio, not always sharp in outline. Rock is relatively unaltered, very slightly carb'd., massive, very coarse grained. Mauve, grey and brown leucoxene is common. Trace scat. mineral.
164.5' - Highly altered anorthosite - Dark grey, highly chloritic & sericitic, schistose in spots 25° cn. Some minor shearing roughly // core, anorthosite texture evident throughout, some yellowish mottling due to sericitized plagio. Contacts are gradational. Trace po., some irreg. calc.
170.1 - Anorthosite as above. A few small bands and patches dark grey chlorite and a few f. calc. stringers
210.6' Highly Altered Anorthosite - Dark grey and in spots almost black, massive, highly chloritic, sericitic. Mottled with occassional coarse relatively unaltered plagio pheno., clusters and streaks of yellowish sericitization and buff leucoxene. Cut by numerous f. irreg. calc. stringers, many carrying good py. chalco. Contains the odd patch of lightly altered anorthosite. A calc. stringer 40% massive py. and some chalco. runs roughly // core from 219.1 - 221.7'.
223.0' Anorthosite like 128.3 with many sections having good tombstone texture, others are white, massive, with very little matrix material. Contains many short med. to highly altered (chloritic) sections.
318.5' - Anorthosite - Sections with tombstone texture are rare. Rock slightly more altered, 80-90% dirty white to greenish white mostly coalesced saussuritized and in places sericitic plagio., massive, not as coarse grained, although there are very coarse grained sections. Numerous 1"-36" black or dark grey chloritic and sericitic sections cut by a number of f. calc. stringer some carrying fair po. chalco. An interesting feature of the highly altered sections is that they often carry f. bright yellowish leucoxene.
412.5' - Highly altered anorthosite - grey mottled to very dark grey with short sections light to relatively unaltered anorthosite cut by calc. stringers. Trace po. py.
426.3' Anorthosite - Light to relatively unaltered as above.
435.9' Highly Altered Anorthosite as 412.5. Some f. stringers of chalco & po.

451.0' Light to medium altered anorthosite as above. Some dark grey chloritic sections with calc. stringers.
459.3' Anorthosite is now mostly medium to highly altered. Chloritization and sericitization have almost obscured the original texture. Rock is mostly massive, grey with faint lighter slightly yellowish mottling. Contains a few black chlorite patches. Cut by a number of f. calc. stringers mostly barren. Bright brown & yellowish leucoxene common. From 469.1 sericite is the predominant alteration occuring in narrow patches and bands separated by lightly altered anorthosite.
476.4 Anorthosite like 459.3 with a few lightly altered sections. A few minor irregular fractures noted A little scat. chalco. and po. Rock is now fairly well carb'd.
522.7' Anorthosite - Lightly altered, very coarse grained, massive, Much of the plagio shows yellowish green sericitization and texture in a few places is almost obliterated by grey chloritization. The plagio is mostly shattered and chloritization along these fracture surfaces has made them stand out. Rock is carb'd. and contains coarse buff and mauve carb'd. leucoxene. Alteration mostly sericitization increases at end of section. No mineral.
533.0 Medium to highly altered anorthosite like 459.3' Cut by a number of f. calc. stringers, some well mineralized. A little scat. chalco. po. py. right to end of hole.

545.1'
545.1' End of Hole.

Diamond Drill Hole K-8

SAMPLES TAKEN AND ASSAYS

Sample No.	Section of Hole from	to	Sample length	Gold oz/ton	Copper %
1563	215.8	217.1	1.3	0.010	0.30
564	217.1	219.1	2.0	Tr.	0.35
565	219.1	220.4	1.3	0.505	3.40
566	220.4	221.7	1.3	0.020	0.90

ROY TWP.

CHIBOUGAMAU MINING & SMELTING CO. INC.

DIAMOND DRILL LOG

D.D.H. K-9
Group K
Location: L48E - 800' S
Azimuth: 0° 00"
Dip at Collar = -51°
at 240' = 48° 30'
at 480' = 47° 20'
Length of Hole = 483.3'
Core = AXT.

Started - March 28, 1956
Completed - Apr 3, 1956
Logged by - C. Krause.

0 Casing

67.0'

67.0' Gabbro (?) Very dark grey, slightly green, coarse grained, massive. Rock is soft, highly chloritic, faintly mottled in most places and in some spots mottling is coarse, suggesting a patch of highly altered anorthosite or transition rock. There are numerous irregular patches and f. veinlets of calc., most of which carry a little mineral. Some short sections show faint lineation 50° cn. Trace of mineral at start of hole increasing to 1-3% disseminated f. py. by 100.0'.
137.0' Gabbro (?) becomes extremely chloritic almost black in colour. The mottling that continues is probably sericite. There is a slight shearing or schistosity 40° cn. Mineral as before.
154.0' Gabbro (?) as 67.0'. Change to the slightly less chloritic rock is quite sharp at 40° cn. Colour darkens again gradually and a number of patches of massive py. increase mineral content 3-5% by 206.0'. Also rock develops slight shearing 45-60° cn. and has become medium f. grained.
216.8' - 12" barren white calc-qtz vein 65° cn. followed by a dark green brecciated, highly carb'd. medium sheared zone with shearing 45-50° cn. accentuated by f. // calc. stringers. This zone 1-3% disseminated f. py.

220.9'

220.9' Magnetite Rich Zone Grey, slightly brown, 20% fine magnetite and patches of fair py. mineralization, carb'd. slightly sheared 45-50° as indicated by f. streaks of py. and calc. stringers. Numerous f. calc. stringers & irregular patches. Rock contains some dark grey green streaky highly chloritic sections. Contacts gradational.

237.0'

237.0' Fine Grained Gabbro? Fine grained, very dark green, highly chloritic, fairly highly carb'd. in sections some slight shearing 20-45° cn. A 6" patch of f. angular frags. or carb'd. phenos noted at 248.0' (flow breccia?) Cut by numerous f. irregular calc. stringers less than 1% scat. f. py. at start of section increasing 1-5% by 253.0'.

260.0' Fairly massive py. displaying a streakiness 65-70° cn. Contains 5-10% included host rock and a little qtz. and calc.
265.3' Gabbro? as above 40-50% massive py. Slight shearing 45-50° cn. approaching end of section. Trace mag.

274.8'

274.8' Massive Pyrite

Contact at 55° cn. 20% associated qtz. & calc. for first 3.0'. Rock is medium coarse textured about 95% ± py. with scat. magnetite which in spots is concentrated to 10-15% of total mineral. No chalco or po. noted. There are a number of fine streaks of calc. mostly 20-30° cn. A little pitting noted.

305.6'

305.6' Fine Grained Gabbro or Greenstone

Like 237.0'. Fine grained, dark green, massive, highly chloritic, carb'd. Cut by numerous f. irreg. calc. stringers, some carrying a little po. py, chalco., f. ~~stained~~ greenish hairs of epidote? There are some short sections well min. with py. 3" pinkish granite dyklet 65° cn. at 333.3'. Develops a slight schistosity 25-60° cn. by 405.0'
431.0' Mineralization increases. Py. blebs and f. streaks // schistosity are scattered and constitute about 1% of rock. Chalco. which was previously missing is now accompanying the pyrite in small amounts.
461.1-10" - 80-90% py. chalco. 70% cn.
468.9' - Zone about 70% small py. cubes compacted in spots to massive. No chalco. noted. End of section trails off in an irreg. py. stringer roughly // core.
476.0' F. grained gabbro? as above. Alteration decreases and by 478.2 numerous faint lighter green rounded to tabular phenos. are distinguishable in spots. Mineralization disappears by end of hole. Cut by several ¼" - 1" barren calc. stringers

483.3'

483.3' End of Hole

CHIBOUGAMAU MINING & SMELTING CO. INC.

DIAMOND DRILL LOG

D.D.H. K-10
Group K
Location: L12W - 82+85S
Azimuth: 180°
Dip at Collar = 46° ~~30'~~
at 300' = 48° 30'
at 756' = 50°
Length of Hole = 756.5'
Core = AXT

Started - March 28, 1956
Completed - Apr 6, 1956
Logged by - C. Krause.

0 Casing	65.0'	
65.0' Anorthosite		Medium altered, fairly dark grey, slightly green chloritic, patchy appearance due to patches of slightly epidotized anorthosite and patches of relatively unaltered anorthosite. Rock is very coarse grained, massive, with some patches showing shattered plagio. Fair po. in some sections. 78.5' Anorthosite - grades from above into massive coarse grained relatively unaltered anorthosite. 80-90% dirty white sharply outlined plagio with dark grey green interstitial material mostly chlorite and some leucoxene. No mineral.
	84.2'	
84.2' Q.F.P. Dyke		Grey, medium grained, massive, very fresh looking, a mass of white felds. phenos to 1/8", slightly carb'd., no mineral. Contacts sharp 60° cn.
	104.1'	
104.1' Anorthosite		Relatively unaltered, 80-90% dirty white coarse, fairly fresh plagio, coalescing in spots, very coarse tombstone texture in others. Interstitial material is mostly dark grey green chlorite but in the very coarse sections is mauve carb'd. leucoxene. Rock is massive with some sections showing f. shearing in plagio. at 55° cn. No mineral. There are medium to highly altered grey chloritic sections and narrow bands.
	149.6'	
149.6' Q.F.P. Dyke		Like 84.2 - Contacts sharp 50° cn., medium grained right to contacts. Cut by numerous f. calc. stringers mostly 35° & 50° cn. A few scat. blebs of po. near end of section.
	251.9'	
251.9' Anorthosite		Light to medium altered, plagio in spots looks squeezed and distorted and in many places is obliterated by grey and green chlorite. Mauve leucoxene occurs in patches. Rock is cut by many irregular calc. patche and fine stringers indicating rock was shattered. One 8" patch chlorite and calc. has about 10% po. at 252.6'
	257.5'	
257.5' Q.F.P. Dyke		Like 84.2' but showing slight alteration in places, i.e. fresh white plagio altered to yellowish sericit and in some places plagio is completely obliterated. Numerous f. calc. 40-60° cn. Contains some scat. po

286.5'

286.5' Granite Porphyry Dyke — Fairly light grey, coarse grained throughout, mass., siliceous, slightly carb'd., numerous scat. white felds. phenos to 1/8". Contains a patch of Q.F.P. with obscure contacts near start of section indicating Q.F.P. is an inclusion and that this dyke is younger. Contains a few f. calc. stringers and some scat. f. py. There is a faint lineation 40° cn. in places. Slight variations in colour across width and some sections look fresher than others but dyke is generally uniform throughout.

418.9'

418.9' Anorthosite — Very coarse grained, massive, relatively unaltered. Sharp contacts at 60° cn. No mineral.

422.0'

422.0' Q.F.P. Dyke — Dark grey like 84.2'. Trace scat. mineral.

423.5'

423.5' Granite Porph. Dyke — Like 286.5' - Sharp contact 60° cn. with preceding Q.F.P. but age relationship unknown. Felds. phenos become scarce by 430.0', rock becomes fairly coarse grained, equi-grained and fairly well (smaller than 1%) mineralized with po. py. and traces of chalco. & sphal. Phenos fresh, numerous and distinct again by 454.5'. 7" banded qtz-calc vein 25°-40° cn. with trace mineral at 453.5'.
Matrix of dyke gets f. grained, phenos remain same size the last 12" before contact.

600.1'

600.1' Anorthosite — 70-90% very coarse white and greyish white, fairly fresh plagio, the white crystals in places appear to be superimposed on the grey ones. Chlorite and leucoxene constitute most of interstitial material. Rock is massive and contains the odd patch of chloritic anorthosite. Some sections are finer grained and have a graphic texture. Trace mineral in the altered patches. There is a patch at 667.0 of very coarse plagio. with internal chloritization which does not include the rim of the crystal. This type of alteration is common further on but not as striking. 2" grey chloritic dyklet? 70° cn. at 712.5' 15-20% po.
750.0' Interstitial chlorite becomes much greener and leucoxene is less prominant, slightly carb'd. Trace scat. po. chalco.

756.5'

756.5' End of Hole.

CHIBOUGAMAU MINING & SMELTING CO. INC.

DIAMOND DRILL LOG

D.D.H. K-11
Group K
Location: - LL44W 139' S of 84400' S
Azimuth: - 0°
Dip at Collar = 51°
Length of Hole = 458.7'
Core = EXT.

Started - April 8, 1956.
Completed - April 12, 1956.
Logged By - C. Krause.

0 Casing

34.0'

34.0' Highly Altered Rock — (Unknown origin) Dark grey to black, very highly chloritized, coarse grained to med. grained. In places coarse black chloritized subhedral crystals noted surrounded by slightly lighter grey material suggesting an amphibole rich rock. Rock is mostly massive but first 9' slightly sheared 50-65° cn. Also this first 9' contains about 15% siderite in scat. crystals and stringers. Many of these stringers carry fair po. chalco and py. and are separated by f. grained dark green chlorite. Calc. is common and generally the rock is well carb'd.
61.5' Rock becomes med. grey slightly green and isolated plagio phenos noted along with numerous faint yellowish white sericitic shadows. Section remains highly carb'd. and highly chloritic, slight shearing in spots at 45 and 60° cn. Cut by numerous f. calc. stringers. Trace f. buff leucoxene. This part may originally have been anorthosite or transition rock. Contains some chalco. and py., mostly with the calc.

80.2'

80.2' Anorthosite — Medium altered at first becoming light to relatively unaltered mostly massive, coarse grained. White to cream coloured plagio. indistinct outlines at first, becoming fresher and more distinct but never sharply etched. Interstitial material is medium to light grey green, mostly chlorite. Rock is medium carb'd. and contains numerous grey, highly chloritized, anorthosite sections and the occassional short section or dyke of very dark grey amphibole - rich rock. Cut by a number of f. calc. stringers. Trace of scat. ch chalco. in the altered patches and calc. stringers.

114.7'

114.7' Amphibole rich Rock — Massive, almost black except for interstitial faint brownish subhedral leucoxene and buff plagio, very highly chloritic, coarse grained, slightly carb'd. Scat. good chalco. po. py. Cut by numerous f. calc. and mineralized quartz stringers. Contacts though fairly sharp, irregular are not intrusive contacts.
116.0 - 1.5' mineralized quartz zone, 30-40% massive po. py. chalco. 35-40° cn.
Contains sections of medium to highly altered mass. anorthosite.

137.4'

137.4' Transition Rock — Light to medium altered, grey, massive, clusters of white plagio with indistinct outlines, coarse grained, carb'd, chloritic. Cut by numerous f. calc. stringers. Several spots show good chalco. but it is in irregular f. stringers // core. Contains some short sections f. amphibole rich rock and some sections of very coarse grained lightly altered anorthosite showing fractured chloritized plagio and coarse mauve interstitial carb'd. leucoxene, also numerous small patches of very dark grey highly chloritic transition rock.

160.0'

160.0' Highly Alt'd. Anorth. — Very dark grey, coarse grained, massive, highly carb'd. in spots, highly chloritic, faint yellowish probably sericitized shadows of plagio phenos. remain. Contains 1-5% chalco. & po. in f. irregular stringers mostly associated with calc. Contains sections of light to med. altered anorthosite and very dark grey extremely chloritic sections where original texture is completely obliterated. Cut by numerous f. calc. stringers. Contacts gradational

174.3'

174.3' Anorthosite — Light to medium altered, coarse grained, massive. Contains sections dark grey, highly chloritic and sections medium altered transition rock. Cut by f. calc. stringers. A little min. in the altered sections.

192.3'

192.3' Transition Rock — Medium grey, light to medium altered, mostly massive coarse grained, spots highly carb'd., patches of euhedral to anhedral plagio, much smaller than found in normal anorthosite, light brown scat. leucoxene. Whole rock, highly chloritized and numerous sections almost completely grey green chlorite. Cut by numerous calc. stringers and some siderite, most highly altered sections well mineralized. A patch of actinolite noted.

220.5'

220.5' Highly Altered Rock — In part at least highly altered anorthosite or transition rock, because section contains patches of distinct plagio and patches of faint yellowish sericitized plagio. shadows. Rock is dark green highly chloritic at first with scat. plagio. remnants grading to dark grey, highly chloritic and sericitic, f. grained except where plagio clusters encountered, mostly massive with spots showing a mild schistosity at 35° cn. carb'd. in places. Cut by numerous f. calc. and qtz. stringers, many well mineralized. Light brown leucoxene common and several small spots of siderite noted. Some parts of this section are well mineralized with small irregular patches of massive chalco. po. and trace of sphal. Total min. about 1-3%.

274.5'

274.5' Anorthosite — High to medium altered, coarse grained, massive, fairly dark grey highly chloritic. Faint yellowish sericitized plagio. shadows seen throughout. Rock Rock is slightly carb'd. has scat. buff and light brown leucoxene, and contains patches of relatively unaltered massive anorthosite. Cut by numerous f. calc. stringers. Trace scat. min. All contacts are gradational?

299.4' - Anorthosite light to relatively unaltered, massive, coarse grained subhedral white plagio with grey green interstitial chlorite and scat. buff leucoxene, slightly sericitic in places, slightly carb'd in places. Contains a number of dark grey highly chloritic and sericitic anorthosite patches. Cut by many f. calc. and quantz stringers, many with black chlorite alteration adjacent. Trace min. Several 1-4" sections of amphibole rich rock noted, contact relationships do not appear to be intrusive. 10" calc. qtz. vein 35° cn. with some siderite and trace min. at 360.2'.

428.2'

428.2' Amphibole Rich Rock — Highly altered, black very chloritic, gets fairly carb'd. by end of hole. In some spots coarse euhedral to subhedral black chloritized crystals are recognizable with grey interstices, but mostly rock is solid black. Sections is cut by numerous irreg. calc. stringers, f. irreg. calc. hairs and greyish alteration streaks giving rock shattered or brecciated appearance. Some parts well min. with chalco. and po.

Contact with preceding rock type destroyed in broken core.

458.7'

458.7' End of Hole

Diamond Drill Hole K-11

SAMPLES TAKEN AND ASSAYS

Sample No	Section of Hole from	to	Sample length	Gold oz/ton	Copper %	Zinc %
1629	36.4	38.1	1.7	0.010	0.50	
630	38.1	39.1	1.0	0.090	0.40	
631	39.1	40.0	0.9	Tr.	0.30	
632	40.0	41.1	1.1	0.030	0.30	
633	41.1	42.2	1.1	0.010	0.40	
634	42.2	43.3	1.1	0.010	0.50	
672	113.3	115.0	1.7	0.040	0.10	
673	115.0	115.9	0.9	0.010	0.20	
635	115.9	117.5	1.6	0.290	1.50	
674	117.5	119.5	2.0	Tr.	0.10	
675	119.5	121.3	1.8	0.010	0.80	
676	121.3	123.3	2.0	0.010	0.30	
677	123.3	124.8	1.5	0.020	0.20	
678	124.8	127.2	2.4	Tr.	0.10	
679	127.2	128.2	1.0	0.010	0.30	
680	128.2	131.2	3.0	0.030	0.10	
681	131.2	133.1	1.9	0.010	0.10	
636	133.1	134.1	1.0	Tr.	1.20	
637	134.1	135.3	1.2	0.010	1.30	
638	135.3	136.7	1.4	0.260	3.80	
682	136.7	139.7	3.0	0.010	0.10	
683	139.7	141.7	2.0	0.010	0.10	
684	141.7	143.7	2.0	0.020	0.10	
639	143.7	145.4	1.7	Tr.	1.40	
685	145.4	146.4	1.0	Tr.	0.20	
686	146.4	147.4	1.0	0.020	0.10	
687	147.4	148.5	1.1	0.010	0.20	
640	148.5	149.2	0.7	0.010	1.40	
688	149.2	152.4	3.2	0.010	0.10	
689	152.4	153.9	1.5	0.010	0.10	
690	153.9	154.9	1.0	Tr.	0.50	
691	154.9	156.4	1.5	0.010	0.10	
692	156.4	158.4	2.0	0.010	0.10	
641	158.4	160.0	1.6	0.010	1.60	
642	160.0	161.0	1.0	0.010	3.10	
643	161.0	163.6	2.6	0.020	0.30	
644	163.6	165.0	1.4	Tr.	0.30	
645	165.0	167.0	2.0	0.020	0.40	
646	167.0	169.0	2.0	Tr.	0.10	
647	169.0	170.0	1.0	0.045	4.40	
648	170.0	172.2	2.2	0.010	0.10	
649	172.2	174.0	1.8	0.010	1.20	
693	174.0	176.0	2.0	Tr.	0.10	
694	176.0	178.0	2.0	0.020	0.10	
695	178.0	180.0	2.0	0.010	0.10	
696	180.0	182.0	2.0	0.010	0.10	
697	182.0	183.0	1.0	0.010	0.30	
698	183.0	185.0	2.0	0.020	0.10	
699	185.0	187.0	2.0	0.010	0.10	
700	187.0	190.0	3.0	0.020	0.10	
701	190.0	192.0	2.0	0.010	0.10	
702	192.0	194.0	2.0	0.010	0.80	

Cont'd....2a

Sample No.	Section of Hole from	to	Sample length	Gold oz/ton	Copper %	Zinc %
703	194.0	196.0	2.0	0.020	0.10	
704	196.0	198.0	2.0	0.010	0.10	
705	198.0	199.0	1.0	0.010	0.30	
706	199.0	201.4	2.4	Tr.	0.10	
707	201.4	202.9	1.5	0.010	0.10	
650	202.9	204.4	1.5	0.010	1.10	
651	204.4	205.6	1.2	Tr.	0.10	
652	205.6	206.6	1.0	0.010	9.90	
708	206.6	208.6	2.0	0.010	0.20	
709	208.6	211.6	3.0	Tr.	0.10	
710	211.6	214.6	3.0	0.020	0.20	
711	214.6	217.6	3.0	0.010	0.10	
712	217.6	220.0	2.4	0.020	0.10	
653	220.0	221.0	1.0	0.055	0.40	
654	221.0	222.4	1.4	0.010	2.10	
655	222.4	224.4	2.0	0.020	0.40	
713	224.4	226.4	2.0	0.010	0.10	
714	226.4	228.4	2.0	0.010	0.10	
715	228.4	230.4	2.0	0.020	0.10	
716	230.4	233.4	3.4	0.020	0.10	
717	233.4	235.4	2.0	0.010	0.10	
718	235.4	236.4	1.0	0.040	0.40	
719	236.4	238.4	2.0	0.010	0.10	
720	238.4	240.4	2.0	0.010	0.20	
721	240.4	241.4	1.0	0.030	0.50	
722	241.4	244.4	3.0	0.020	0.10	
723	244.4	245.4	1.0	0.020	0.10	
724	245.4	247.3	1.9	Tr.	0.10	
656	247.3	248.5	1.2	0.010	0.20	
657	248.5	249.5	1.0	Tr.	0.50	
658	249.5	250.8	1.3	0.045	0.70	
659	250.8	252.4	1.6	0.010	0.40	
660	252.4	254.4	2.0	0.040	1.90	
661	254.4	256.4	2.0	0.010	2.70	
662	256.4	258.4	2.0	0.020	1.70	
663	258.4	260.4	2.0	0.020	1.10	
664	260.4	261.9	1.5	0.030	3.10	
665	261.9	263.4	1.5	0.010	2.30	
666	263.4	265.0	1.6	0.010	0.60	
667	265.0	266.9	1.9	Tr.	0.10	
668	266.9	268.5	1.6	0.010	0.50	0.85
669	268.5	269.5	1.0	0.010	0.50	0.26
670*	269.5	270.7	1.2	0.055	4.00	~~[illegible]~~
725	270.7	272.7	2.0	0.010	0.10	
726	272.7	275.7	3.0	0.010	0.10	
671	360.2	361.2	1.0	0.010	0.20	
727	428.2	430.0	1.8	0.010	0.10	
728	430.0	432.0	2.0	0.150	0.30	
729	432.0	434.0	2.0	0.020	0.20	
730	434.0	436.0	2.0	0.020	0.10	
731	436.0	438.0	2.0	0.010	0.20	
732	438.0	440.0	2.0	0.010	0.10	
733	440.0	442.0	2.0	0.010	0.30	
734	442.0	444.0	2.0	0.020	0.30	
736	446.0	448.0	2.0	0.010	0.30	
737	448.0	450.0	2.0	0.030	0.20	

~~* Sample missing values assumed equal to average of preceding group~~

cont'd..........2b

Sample No.	Section of Hole from	to	Sample length	Gold oz/ton	Copper %	Zinc %
738	450.0	452.0	2.0	0.010	0.20	
739	452.0	454.0	2.0	0.020	0.10	
740	454.0	456.5	2.5	0.020	0.20	
741	456.5	458.7	2.2	0.030	0.20	

CHIBOUGAMAU MINING & SMELTING CO INC.
DIAMOND DRILL LOG.

D.D.H. K-13
Location : Group L 200' S on L 40 E
Azimuth : 0°
Dip at collar : 47°
at 300' 46°
at 630' 43° 30'

Started : January 10th, 1957.
Completed : January 19th, 1957.
Logged : C. Krauze and J. Koene.

Core Size AXT
LENGTH 730.0'

0 Casing

72.0'

72.0' Gabbro - transition dark green, highly chloritized massive, coarse grained. Was origenally quite rich in plagioclate, could be a heavily chloritized anorthosite - transition, definitly looks like chlorite is redistributed and introduced. Quite a bit of pink calcite from 94.9 to 97.0'.

96.0'

96.0'Zone of alteration and mineralization
highly chloritized zone, origenal rock is unknown but close to gabbro - transition - anorthosite - transition because of a few ghosts plagio crystals. Pyrrhotit and chalcopyrite at 97.0'. from 96.5' to 97.3' and disseminated chalcopyrite and pyrrhotite from there to 103.0'. Quite a few calcite veins. Massive calcite from 103.0' to 106.5'. Massive pyrrhotite veinlet with some chalcopyrite at 106.2' ~~xx~~ 45° to cn..

107.5'

107.5' Anorthosite massive, white, slightly sericitized at beginning ~~xxxx~~ for about 5 feet. From there down massive fresh.
In general coarse to very coarse. All good tombstone texture.
Less than 15% interstitial material.
106.9' - 162.0' zone of alteration with chlorite, carbonite, pyrrhotite and chalcopyrite and a few disseminated grains of ~~xx~~ chalcopyrite.

Same as 160.0' to 162.0' from 176.5' to 177.5' and from 178.2' to 178.6'.

182.0'

182.0' Zone of alteration and minerization
heavily chloritized zone, in patches with veinlets and stringers of pyrrhotite and few grains of chalcopyrite.

Heavy pyrrhotite and quartz from 184.4' to 185.4' , this is followed by 1.6 feet of heavily sericitized and chloritized and anorthosite.

187.0'

187.0' Anorthosite very heavily sericitized, dead white. Origenally less than 1% magic minerals. Now a fine grain zoisite.

From 196.6' to 197.5' zone of chloritization and alteration veinlet of pyrrhotite and calcite at 197.0'.

200.0' to 206.2' zone of chloritization and mineralization. Vein of massive pyrrhotite over 5'' wide - lower contact at 45° to cn.. From 206.2' down anorthosite is massive and has typical tombstone type texture with 5 - 15% interstices.

From 215.0' down a large proportion of the interstices is made up of mauve brownish leucoxene.

230.0'

230.0' Feldspar dyke — Irregular massive, pyrrhotite at beginning, but fades out from 239.0' to 248.0'. It is then coarse grained, grey and contains quartz and plagioclase but no tablets of white saussuritized plagioclase. This dyke is peppered with disseminated pyrite crystals all over. Las t 8 feet are highly porphyritic contact is obscured by veinlets of calcite and some pyrrhotite at about 5 - 8° to cn..

258.0'

258.0' Anorthosite — coarse, white, tombstone type texture, less than 10% interstitial chlorite. From 967.5' to 968.8', narrow layer with tombstone texture, but with chloritized crystals in a leucoxene texture, contact is at 75° - 80° to cn.. Would suggest anorthosite dip for the Dore Lake Complex.

327.5' to 330.0' chloritized zone with 50% sulphides, mostly pyrrhotite and pyrite shearing and calcite veining parallel to the core axis.

335.0' to 338.0', interstices of the anorthosite are pale pinkish cream. Get thin section 336.5'.

378.3'

378.3' Zone of alteration and mineralization

sericitized and chloritized anorthosite-transition - anorthosite with possible dyke or strech of heavy silicification. Heavy pyrrhotite over first 9 feet and then disseminated pyrrhotite and chalcopyrite for the rest 3 feet..

From 382.0' to 388.6', heavy chloritized gabbro transition zone with lots of calcite veinlets and blebs.

From 388.6' to 392.0' , calcite and sericitized anorthosite with lots of fine veinlets of red sphalerite.

392.5'

392.5' Anorthosite — coarse to very coarse. Irregular, massive, good tombstone type texture.

Slight sericitized and chloritized from 403.5' to 405.0'.

Various between 5 and 20% interstitial material.

A few streches of leucoxene (pale pinkish buff) interstices.

At 426.5' veinlet ½'' wide, at 45° to cn. of chalcopyrite and pyrrhotite and calcite.

From 445.5' to 449.3' zone of alteration and chloritization veinlet of pyrrhotite and calcite in that zone at 70 - 65° to cn., few specks chalcopyrite.

1 foot of chloritization at 456.0'.

2 feet at 547.0' of sericitization.

3 feet of minor chloritization and sericitization at 558.0'
at 590.0' 2 feet of highly sericitized anorthosite shattered veinlet calcite at 60 to cn.
Rock is interrupted by 1 - 3'' section of highly altered anorthosite bearing a few pyrite cubes and chalcopyrite.

604.8'

604.8' Highly altered zone, probably an anorthosite dark grey, becoming greenish dark grey down the hole sericitized and chloritized with a trifle of pyrite and chalcopyrite, passing over in a very high altered zone at 610.8'.
Minerals are aranged according to a liniation pattern 30 - 40° to cn.. Chalcopyrite occurs in a few quartz calcite stringers // cn..
At 613.1' are 4 inch intersections of transition rock. Relatively unaltered feldspar with dark green to black chloritized interstices.
At 617.2' 1 inch quartz calcite veinlet // cn. with a small amount of chalcopyrite, pyrite and pyrrhotite.
At 627.7' a more mineralized zone begins. A very small amount of chalcopyrite and pyrrhotite occurs through rock. Esspecially are the minerals to be found in the stringers and small veinlets which cut core at various angels. Pyrrhotite is domminant . At 637.0' a 12 inch quartz calcite veins 30° to cn. with 25% pyrrhotite in irregular patches also a very small amount of chalcopyrite.
Liniation at 30° cn.. Mineralization ends at 650.0'
At 650.5' a 18 inch barren quartz vein 30° cn.. Liniation up to 60° cn..

671.7'

671.7' Transition rock — Pale grey medium grained with feldspar phenos up to 1/8 inch. Relatively unaltered cut by a few calcite albite (?) stringers up to 60° to cn. slightly sericitized. Texture becomes coarser grained at 699.4. Feldspar phenos up to ½ ''.

700.0'

700.0' Anorthosite - transitiom rock
Grey relatively unaltered medium to coarse grained. Feldspar phenos up to ¼ ''. Interstices filled with mauve calcite or with pale green chloritized mafics, interupted by sections of feldspar porphyritic dyke which are cut by numerous quartz calcite stringers and albite (?) stringers at various angels. No mineral.

730.0' End of hole

SAMPLES AND ASSAYS TAKEN

D.D.H. K-13

Sample number	Section of hole From	To	Sample legth	Gold Oz/Ton	Copper %	Ni. %
2279	96.6	99.0	2.4	0.040	0.30	
2280	99.0	102.4	3.4	0.030	0.40	
2281	102.4	107.0	4.6	0.010	0.20	
2282	160.8	162.1	1.3	0.010	0.20	
2283	205.0	206.2	1.2	0.010	0.10	
2289	327.5	330.0	2.5	0.010	0.30	
2188	378.3	382.5	4.2	0.0225	0.40	NIL.
2189	382.5	388.5	6.0	0.025	TR.	
2190	388.5	392.1	3.6	0.010	0.10	
2191	445.6	449.3	3.7	0.025	0.20	

D.D.H. K-14

Location	:	65' W of 200' S on L42E.
Azimuth	:	25°30'.
Dip at collar,	:	49° 30°.
at 230'	:	~~230'~~ 48°.
at 460'	:	~~460'~~ 48°.
	:	
Length of hole	:	460.0'
Core Size	:	A.X.T.

Started : January 19th, 1957.
Completed : January 24th, 1957.
Logged by : J. Koene.

0.0 Casing

43.7'

43.7' Highly altered zone — Probably an anorthosite. Black soft rock, highly chloritized. Perhaps rock was on the basic side before alteration: in the dark matrix we find the very faint remnants of black phenos. Scattered leucoxene. Slight mineralization, espaccially in veinlets and fractures: Chalcopyrite and pyrrhotite. Intersected by calcite-quartz stringers from 44.3' to 44.6' and from 45.3' to 45.5' and from 46.0' to 46.6'. Thesestringers have small pale green chloritized borders and are slightly mineralized: chalcopyrite, pyrrhotite and sphalerite. Contacts are irregular.

48.3'

48.3' Transition rock — 50% feldspar in large subhedral phenos up to 3/4'' surrounded by borders of mauve to pink calcite, in a fairly fine grained grey matr: matrix.

49.3'

49.3' Highly altered section — As 43.7' but rock becomes strongly epidotized. Pyrrhotite and chalcopyrite disseminated through rock.
50.7' a mineralized quartz-calcite stringer 0° to cn..

52.4'

52.4' Anorthosite — relatively unaltered 90% feldspar with chloritized mafics in the interstices and a few scattered leucoxene.

53.4'

53.4' Highly altered section as 49.3'.

55.0'

55.0' Anorthosite — strongly silicified running over in a quartz vein at 57.8'. Dirty greenish-white with bundeled, black mafics in a very irregular pattern of brown-grey calcite fissures. The lower side of the quartz vein has been mineralized over a section from 59.2' to 59.6'.
59.6' calcite-quartz vein: fine grained.
Contact irregular about 0° to cn.. A few bands (lenses) of pyrrhotite.
60.0' highly sericitized section to 61.1'. Slighlly mineralized with pyrrhotite, pyrite and chalcopyrite.

61.1' Anorthosite again.

62.0'

62.0' Grey dyke — pale brownish-grey, fine grained, cut by numerous irregular mineralized calcite stringers. Mostly pyrrhotite.
Beginning at 62.7' up to 63.2' an irregular contact, flat to core with anorthosite.
66.0' 4'' mineralized (pyrrhotite) calcite stringer 50° to cn..
66.4' anorthosite transition, passing over in transition rock.

67.2'

67.2' Transition rock relatively unaltered
Upper contact sharp, 50° to cn., 60% dirty white subhedral feldspar phenos. Greenish black chloritized irregular shaped mafics with a few spots of calcite (mauve).
At 68.5' feldpsar decreases to 30 - 40% while the amount of mauve calcite increases. Traces of mineral.
78.5' mineralized 2'' quartz-calcite stringer (pyrrhotite) 30° to cn
101.3' 6'' highly altered section.
Rock is chloritized and sericitized. Pale grey with faint remnants of feldspar-phenos.
101.9' transition rock again interrupted by small sections of higher alteration.
113.0' rock shows a lineation of tha mafics 30° to cn..

115.1'

115.1' High altered zone — upper contact sharp 30° to cn.. Black greenish-grey, fine grained matrix with a few very faint remnants of feldspar-phenos cut by a few mineralized calcite and quartz stringers up 3'' (117.3') pyrrhotite, chalcopyrite.

118.7'

118.7' Transition rock — as 67.2' traces of mineral. 132.2' a relatively higher altered section. Rock is sericitized, soft and starts with a highly carbonitized and strongly mineralized (pyrrhotite, chalcopyrite) zone (stringers ?) at the upper contact, which is irregular.
All over this section we see disseminated pyrrhotite and chalcopyrite up to 5%.
Lower contact unsharp, irregular.
133.4' transition rock again. No mineral.
138.1' relatively higher altered section. Probably a chloritized and sericitized anorthosite because of the faint inclosures, reminding of that tyoe of rock. Brownish black-grey with a certain lineation (schistosity) 40° to cn. and small linses of oxidized pyrrhotite. Slightly carbonitized in spots.
139.1' transition rock again at irregular interfals alternating with 1'' or 2'' sections of high chloritization and 1'' or 2'' sections of relatively unaltered fresh looking anorthosite.
90% feldspar.
201.0' to 201.5' a highly chloritized section. Sharp contacts at 30° to cn.. A small amount of chalcopyrite and pyrrhotite.
Rock has a schistosity 30° to cn..

202.8' to 203.2' another chloritized section with some pyrrhotite Contacts and shearing at about 40° to cn..
218.6' to 218.9' a small feldspar porphyrytic dyke. Contacts at 30° to cn..
Dark grey fine grained matrix with small, subhedral, greenish - white feldspar-phenos. Traces of mineral.

242.5'

242.5' feldspar porphyrytic dyke

sharp igneous contact 0° to cn. Rock begins with a 3'' zone inwhich we see a lot of small, white, subhedral feldspar-phenos in a dark grey matrix which passes over in a dark grey rock with a few faint, pale greenish-white feldspar-phenos, cut by a number of calcite stringers. Most of them between 15° and25° to cn.. Traces of disseminated chalcopyrite. At the lower contact feldspar-phenos become numerous again with a fresh white colour. Sharp contact 30° to cn..

272.0'

272.0' Anorthosite

starting with a relatively slightly altered zone. Grey-greenish with no distinct feldspar-phenos. Cut by numerous irregular calcite -(albite ? zoisite ?) stringers which give rock a brecciated appearance.
273.6' to 274.1' a calcite stringer 20° to cn with some bands of brownish epidote.
281.0' polkadot - texture.
301.5' 2'' sections of highly epidotized rock 15° to cn..
Buring next 75'.
Relatively fresh looking anorthosite alteration with slightly altered looking rock.

377.0'

377.0' feldspar porhpyrytic dyke

Grading contact 80° to cn..
Grey matrix with some subhedral, dirty-white small feldspar-ohenos.
378.0' a 3'' long highly mineralized calcite stringer almost flat to core. Pyrrhotite and traces chalcopyrite.

379.5'

379.5' Anorthosite

as 272.0'. Scattered spots of mineral; mostly pyrrhotite occuring in irregular mineralized calcite stringers ar various angles.

421.0'

421.0' Grey dyke (?)

another possibility is that the rock is a serisitized anorthosite Grey, fine grained, cut by a few fine mineralized calcite striners at various angles.

423.1'

423.1' Anorthosite

as 379.5' Rather sharp upper contact 60° to cn.. Increase of mauve calcite in the interstices.
425.7' to 426.5' zone of mauve calcite with remnants of the original rock. Traces of pyrrhotite and chalcopyrite.

426.0' relatively higher altered rock, relatively high mineralized. Pyrrhotite and cahlcopyrite. Texture of the original anorthosite is disappeared except for a few inclosures.
429.8' anorthosite texture appears again. Rock relatively unaltered.
430.3' a 10'' almost barren calcite veinlet with a few quartz pebbles and traces of sphalerite and pyrrhotite in very fine chloritized patches. Sharp contact at 30° to cn..
438.9' Rock grades over in a more basic kind of rock. Higher altered (chloritized) and cut by fine irregular stringers of mon calcite material: albite ?, Zoisite ?.
435.5' a 2' zone of relatively higher mineralization: pyrrhotite, sphalerite and some chalcopyrite.
437.5' anorthosite again.
Very large feldspar-phenos up to 1'' with greenish, chloritized interstices and mauve calcite.
After 1.5' feldspar-phenos become smaller to 1/8''.

460.0'

460.0' End of hole.

D.D.H. K-14

SAMPLES AND ASSAYS TAKEN

Sample number	Section of hole From	To	Sample legth	Gold Oz/Ton	Copper %	Ni %	Zn %
2402	43.6	45.0	1.4	0.0225	0.7		
2403	45.0	47.0	2.0	0.010	0.4		
2404	47.0	50.0	3.0	0.010	0.2		
2405	50.0	52.5	2.5	0.010	0.3		
2406	52.5	55.0	2.5	0.010	0.1		
2407	55.0	59.1	4.1	TR.	0.3		
2408	59.1	60.2	1.1	0.0425	0.9		
2413	60.2	62.9	2.7	0.010	0.1		
2409	62.9	65.9	3.0	0.01	0.3		
2410	65.9	67.1	1.2	0.01	0.3		
2411	115.0	117.0	2.0	TR.	TR.		
2412	117.0	118.6	1.6	0.095	0.5	TR.	
2505	425.7	427.4	1.7	0.01	0.10		0.31
2506	427.4	429.0	1.6	0.01	0.40		0.20
2507	429.0	430.0	1.0	0.0175	0.20		0.26
2508	435.0	435.7	0.7	TR.	0.10		0.15
2509	435.7	436.6	0.9	0.01	0.20		0.26
2510	436.6	437.8	1.2	TR.	0.40		0.15

GROPK
copy

D.D.H. K-15

Location : 50'E 380'S On L40
Azimuth : 25°30'
Dip at collar : 47°30'
at 200.0' : 39°
at 400.0' : 42°15'

Started : January 25th, 1957.
Completed : February 2nd, 1957.
Logged by : J. Koene.

Core Size : A.X.T.

Length of hole : 400.0'

0. Casing

62.0' ~~Pyroxenite~~ F.P. Dyke — 62.0'

relatively unaltered, grey, fine grained matrix with black subhedral phenos of pyroxenes? up to 1/8".
Slightly carbonitized, cut by a lot of irregular very fine calcite stringers at various angles. No mineral.

79.0' Anorthosite — 79.0'

Grading contact. Relatively unaltered 70 - 80% dirty-white feldspar-phenos up to ½" with chloritized borders. Interstices mostly filled with mauve calcite. In spots epidotized traces of mineral. Interrupted by 3 narrow sections of relatively higher alteration, sericitization and epidotization.

113.8' Green dyke — 113.8'

Upper contact destroyed. Fine grained. Green with numerous fine feldspar-phenos. Cut by a few irregular calcite stringers. No mineral.

124.0' Anorthosite — 124.0'

as 79.0'. Sharp contact at 60° to cn.. Amount of mauve calcite reduced.
212.0' In the anorthosite a 8' zone appears, inwhich anorthosite alteration with narrow sections of a dyke? or highly altered anorthosite, without a distinct texture.
Brecciated due to numerous fine irregular calcite stringers at various angles. Fine pale grey matrix. No mineral.
The parts of real anorthosite are medium chloritized and bear irregular calcite stringers. Some of them are slightly mineralized. Pyrrhotite.

222.4' Feldspar porphyry dyke — 222.4'

Massive, pale grey with a bleached texture. Numerous faintly visible feldspar-phenos. Rock seemed to be silicified.

SAMPLES AND ASSAYS TAKEN

D.D.H. K-13

Sample number	Section of hole From	To	Sample legth	Gold Oz/Ton	Copper %	Ni. %
2279	96.6	99.0	2.4	0.040	0.30	
2280	99.0	102.4	3.4	0.030	0.40	
2281	102.4	107.0	4.6	0.010	0.20	
2282	160.8	162.1	1.3	0.010	0.20	
2283	205.0	206.2	1.2	0.010	0.10	
2289	327.5	330.0	2.5	0.010	0.30	
2188	378.3	382.5	4.2	0.0225	0.40	NIL.
2189	382.5	388.5	6.0	0.025	TR.	
2190	388.5	392.1	3.6	0.010	0.10	
2191	445.6	449.3	3.7	0.025	0.20	

January 24th, 1957.

Dr. C.W. Clark, President,
Chibougamau Mining & Smelting Co. Inc.,
1816 Bank of Nova Scotia Bldg.,
44 King Street West,
TORONTO, Ontario.

Dear Dr. Clark,

Enclosed please find Diamond Drill Log K-13, Group "K".

Yours very truly,

S. E. Malouf,
Chief Geologist.

SEM/ek

c.c. A. Notman,
A. M. Collings Henderson,
Head Office.

Slightly carbonitized. Beginning at about 227.0', cut by a number of irregular fine calcite stringers at various angles. No mineral.
239.5' a few 3 - 5" enclosures of anorthosite.
244.0' (about) a pale grey-greenish, 3' section of rock with a large amount of quartz. Quartz porphyry dyke?

249.0'

249.0' Anorthosite

as 124.0' but more altered and less feldspar. Sharp contact almost flat to core. Alteration increases down the hole.

250.4'

250.4' Highly altered mineralized zone.

Black with greenish sericitized spots and patches. Pyrrhotite occurs disseminated through rock and in bands and patches at irregular intervals.
Also a few chalcopyrite. Cut by a few irregular calcite stringers at various angles.
261.5' end of altered zone. Anorthosite relatively unaltered 80% feldspar.

265.4'

265.4' Quartz ? feldspar porphyry dyke.

Sharp contact at 70° to cn.. As 222.4'.

271.2'

271.2' Anorthosite

as 249.0' Sharp irregular upper contact.
276.5' Medium to high altered zone. Greenish grey with faint anorthosite texture. Cut by a number of very fine irregular calcite stringers at various angles.
278.0' to 278.9' narrow section of relatively high mineralizatic pyrrhotite and traces chalcopyrite.
279.6' relatively unaltered. Anorthosite with coarse tombstone texture. Scattered patches of leucoxene.
298.2' a 1" mineralized calcite stringer (pyrrhotite) at 0° to c cn..
299.2' alteration increases to medium (chlorite).
316.4' a 2.5' long section of high alteration combined with mineralization. Mostly pyrrhotite. Traces of chalcopyrite.
Core is battered up in this zone. Cut by a heavy mineralized quartz-calcite stringer (pyrrhotite).
Perhaps mineralization ~~xxx~~ in this section is centered along the stringer.
319.0' end of this section.
324.5' medium to high altered section. Soft, greenish sericitized rock with bands and patches of black chloritized mafics, spotted with large, irregular shaped calcite-quartz patches. Cut by a number of calcite and non-calcite (feldspar or alteration) stringers at 40° to cn.. In spots rock shows distinct lineation of the mafics at 40° to cn..
At 339.0' lineation as at 60° to cn.. Traces of pyrrhotite and chalcopyrite in a few fine stringers.
At about 356.0' alteration decreases. Rock becomes relatively unaltered.
At about 367.0' remnants of quartz vein, well shaped 1" barren quartz crystals.

385.7' Mineralized section

385.7'
of about 12" with an enclosure of anorthosite and calcite bands. Perhaps this zone iz just composed of 2 calcite stri gers (mineralized) in the (altered) northosite. Pyrrhotite and tracew chalcopyrite.

386.8' Feldspar-porphyry dyke

386.8'
Sharp contact at 40° to cn.. Dark grey very fine grained matrix with numerous subhedral to euhedral 1/8" feldspar-phenos.
Massive. A small amount of disseminated pyrite.

400.0'

400.0' End of hole.

D.D.H. K-15

SAMPLES AND ASSAYS TAKEN

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni %
2644	250.0	251.5	1.5	0.010	0.10	
2645	251.5	253.5	2.0	0.010	0.20	TR.
2646	253.5	255.0	1.5	0.01	0.10	TR.
2647	255.0	260.0	5.0	TR.	0.10	

T- Holdings 204

D.D.H. T-33

Location : 65'S on L12E.
Dip at collar : 90°
Fajari Compass Tests :
at 60' dip 89°30' Azimuth S58°30'W
at 260' dip 88°30' Azimuth S68°30'W
at 520' dip 87°30' Azimuth S59°W

Started : January 22nd, 1957.
Completed : January 27th, 1957.
Logged by : C. Krause and G. Allard.

Core Size : A.X.T.

Length of hole : 524.5'

0. Casing

38.4'

38.4' Highly altered mineralized zone
Dark grey green, highly chloritic, mostly massive but some minor irregular shearing. Where texture is not obliterated, very coarse black phenos are noted in a plae grey green matrix. Cut by numerous calcite stringers and streaks, mostly steep to core. Fairly well mineralized with pyrite and traces chalcopyrite in fine stringers and associated with calcite stringers.
The hole collared in a ½'' quartz-calcite stringer flat to core which is 50 - 60% pyrite .
49.0' Rock becomes lighter in colour and alteration drops to medium. The faint lighter mottling suggests an original anorthosite. Alteration is mainly sericite. Rock is massive, but by numerous irregular fine calcite stringers. Contains a little scattered brown leucoxene. Only slightly mineralized with pyrite and cahlcopyrite.
73.0' alteration increases to medium high.
Grey green, chloritic and sericitic, massive, brown fine leucoxene common, texture obliterated but in places yellowish sericitized plagio ghosts noted. Section is criss-crossed by numerous zoisite? streaks and stringers. Cut by a number of calcit stringers. Traces scattered purite.
83.3' anorthosite, slightly altered very coarse, cloudy light phenos in grey green matrix, massive, a little leucoxene.
88.6' highly altered again. In places coarse black phenos noted. Dark grey, highly chloritic, scattered brown leucoxene. Slightly sheared 50° to cn. Some sections more chloritic than others. Cut by a few calcite and quartz stringers with good associated chalcopyrite and pyrite from 88.6' to 102.5'.
4'' patch course brown leucoxene. at 89.4'
~~Sp~~ quartz-calcite brecciated zone 30% chalcopyrite and pyrite at90.1'.
106.7' 1.5' of relatively unaltered, massive, anorthosite.
Section of good pyrite and chalcopyrite mineralization from 115.7' to 118.7'.

1236' medium highly altered anorthosite, massive, light plagio remnants, numerous calcite stringers. No mineral.
130.0' highly altered again, coarse black chloritized, phenos common. Some patch of medium altered anorthosite, massive, fairly good pyrite and chalcopyrite, mostly associated with the numerous calcite stringers.
Best mineral from 132.6' to 138.5'.

154.4'

154.4' Anorthosite — relatively unaltered 80 - 95% coarse white plagio, tombstone texture, massive. Some of the coarse phenos show a fine fracturing.

163.0'

163.0' Highly altered zone — very coarse black chloritized phenos in light buff matrix, massive. Contains patches of medium altered anorthosite. Cut by numerous fine calcite and quartz-calcite stringers, some with a little pyrite and cahlcopyrite.
2'' quartz-calcite stringers 20° to cn., with 20% chalcopyrite at 176.4'.
From 180.0' to 185.0' mineralization increases, chloritic alteration increases and obliterates all texture. Spots are highly carbonitized.
1.8' calcite-quartz brecciated zone with 30% chalcopyrite and pyrrhotite (7 - 8% copper) at 181.0'. Near contact 75° to cn. far contact 50° to cn..
185.0' faint coarse black phenos appear again, also patches of coarse altered plagio phenos.
Mineral has decreased to traces scattered yellowish brown leucoxene.
3'' patch of massive pyrite and chalcopyrite at 191.6'.
From 197.5' to 201.8' there is an increase in alteration and mineralization.
210.4' transitional rock, very coarsely porphyrytic, massive, 50 - 80% dirty white plagio, becoming carbonitized.
Contains a few coarse balck phenos too. Cut by a few fine calcite and zoisite (?) stringers. Traces brown leucoxene and fine sulphides.
217.8' highly altered as 185.0'. Fair pyrite, traces chalcopyrite.

225.7'

225.7' Transition rock — patchy, relatively unaltered massive. Contains dark grey green highly chloritic patches with scattered buff leucoxene. Some patches are carbonitized. Cut by a number of fine calcite stringers. Traces mineral.

236.0'

236.0' Highly altered zone — dark grey, hihgly chloritic, in places coarse black phenos in lighter matrix noted. Contains patches of lightly altered anorthosite and transition rock and clusters of coarse feldspar-phenos. Fairly massive, scattered brown leucoxene, numerous calcite stringers. Good zone of mineralization from 247.0' to 250.0', but mostly pyrite.
7'' pale yellowish green highly selicitized section at 248.0'.
Zone shows lineation 60° to cn. and is 25% crystaline pyrite.
1'' calcite-pyrite stringers 45° to cn. at 249.3'.
3'' calcite brecciated zone, barren at 263.0'.

265.6'

265.6' Anorthosite transition rock

relatively unaltered to slightly altered, good tombstone texture in some sections. Coarse plagio is white to yellowish green, deperding on, whether the slight alteration is sericite or epidote. Grades into dark grey highly chloritized sections, some of which have good mineralization, cut by a few calcite and quartz-calcite stringers. (Alteration has preserved the cleavage pattern of the plagio at 279.0' to 279.5', spec. taken).

281.5'

281.5' Highly altered mineralized zone

grades from above. So highly chloritized all texture is obliterated; chlorite is greener than in previous zones. Fine stringers of sulphides and pink and white calcite give a distorted lineation in some places, a brecciated appearance in others.
From 283.5' to 294.2', rock is 25% max chalcopyrite, sphalerite and pyrrhotite (6 - 7% copper).
From 294.2' to 300.0' about 1% copper.
305.6' very coarse black angular phenos appear in a light matrix with here and there a section showing a pale yellowish green sericite mottling, brown coarse leucoxene is common. Mostly massive, but some sections show slight shattering and shearing 35 - 60° to cn. Rock is highly carbonitized and cut by many calcite and quatrz-calcite stringers and brecciated zones from 4 - 5''. Most of them well mineralized with chalcopyrite, pyrrhotite and pyrite and sphalerite.
Section as a whole will not make ore.
8'' silicious mineralized patch at 300.0'. Very good sphalerite and chalcopyrite mineral from 303.0' to 304.0'.
5'' well mineral calcite veinlet steep to core at 308.5'.
5'' brecciated zone, good chalcopyrite at 312.8'.
1.3' calcite-quartz zone, some banding parallel contacts 40° to cn. at 320.6'.
First 4'' from near contact 70% magnetic pyrrhotite and chalcopyrite.
323.0

323.0'

323.0' Anorthosite

altered
medium to relatively unaltered, very coarse subhedral round and irregular plagio that in places show greenish sericitic centers and white rims, massive, well carbonitized, interstices carry a lot of pink calcite. Contains short high altered patches with coarse black chloritized phenos. Cut by a number of calcite stringers but little mineral.
4'' calcite-quartz stringers, well mineralized with chalcopyrite 20° to cn. at 328.2'.
In highly chloritic zone, 12'' section of very coarse subhedral rounded plagio phenos with sharp white borders and grey carbonitized centers. Calcite-siderite stringers in 12''.
Chloritic patch at 337.5'. Traces chalcopyrite.

340.0'

340.0' Highly altered zone — highly chloritic coarse black phenocs in light matrix, mostly with sections of highly sericitic anothosite; massive, numerous irregualr calcite stringers and veins but very little mineral.
2'' barren white calcite stringer along core from 346.0' to 348.0'.
352.0' sections of recognizable anorthosite become less altered and more numerous.
From 355.0' to 368.0' very highly altered zone, chloritized and sericitized. Original rock unknown.
Veinlet pyrite and calcite and sphalerite at 45° to cn. at 358.0

368.0'

368.0' Anorthosite — massive, rapid decrease of the alteration. Tombstone texture medium grained. Change at 377.0' to a very coarse type of anorthosite with peculiar large interstices, greyish-white made up of quartz (?) or soisite and calcite and rimmed against the plagioclase by dark chlorite.
Get thin section of speciment at 381.0'.

387.0'

387.0' Highly altered zone — massive but highly chloritized and sericitized.
Original rock had tombstone texture but the huge crystals are dark green and the interstices are pale green.
Check thin section to see if original rock is anorthosite or pyroxenite.
This zone is cut by numerous calcite veins.
Vein of pyrrhotite and pyrite with quartz at 409.0' at 50° to cn.

At 447.9' zone of pyrite, pyrrhotite and chalcopyrite, quartz and calcite.

449.0'

449.0' Anorthosite — massive, fresh good tombstone texture. Quite pure, 10% chlorite interstices. Gets fresher and fresher and purer.

From 500.0' to 524.0' original had streches of nearly pure anorthosite with less than 8% interstitial material.

524.5'

524.5' End of hole.

D.D.H. T-33

SAMPLES AND ASSAYS TAKEN

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Zn %	Ni %
2422	38.4	40.4	2.0	0.0225	0.20		
2423	40.4	43.4	3.0	0.010	0.20		
2424	43.4	46.4	3.0	0.010	0.30		
2425	46.4	48.9	2.5	0.025	0.10		
2426	48.9	51.9	3.0	0.010	0.30		
2427	51.9	54.9	3.0	0.010	0.30		
2428	54.9	57.9	3.0	0.010	0.20		
2436	88.6	90.1	1.5	0.020	0.80		
2437	90.1	91.1	1.0	0.045	2.60		
2438	91.1	93.1	2.0	0.010	0.20		
2439	93.1	96.1	3.0	0.010	0.10		
2440	96.1	97.7	1.6	0.010	0.50		
2441	97.7	101.6	3.9	0.010	0.10		
2442	101.6	102.6	1.0	0.010	0.40		
2443	114.6	115.6	1.0	TR.	0.10		
2444	115.6	118.1	2.5	0.035	0.50		
2445	132.7	133.7	1.0	0.010	0.30		
2446	133.7	136.2	2.5	0.010	0.20		
2447	136.2	138.6	2.4	TR.	0.20		
2455	175.1	176.6	1.5	0.010	1.00		
2456	176.6	180.2	3.6	0.010	0.20		
2457	180.2	183.0	2.8	0.055	8.70		
2458	183.0	184.5	1.5	0.010	0.30		
2459	184.5	187.9	3.4	TR.	0.10		
2460	187.9	188.9	1.0	0.010	0.20		
2461	188.9	190.3	1.4	TR.	0.20		
2462	190.3	191.8	1.5	0.0225	0.30		
2463	191.8	194.4	2.6	0.010	0.20		
2464	194.4	195.4	1.0	0.1475	1.10		
2465	195.4	197.2	1.8	0.010	0.40		
2466	197.2	198.2	1.0	0.010	0.50		
2467	198.2	200.7	2.5	TR.	TR.		
2468	200.7	201.9	1.2	0.020	0.40		
2469	201.9	204.0	2.1	0.010	0.20		
2470	204.0	205.0	1.0	0.055	0.40		
2471	205.0	209.8	4.8	0.010	0.10		
2472	209.8	211.5	1.7	TR.	0.10		
2473	211.5	217.8	6.3	TR.	TR.		
2474	217.8	219.8	2.0	TR.	0.20		
2475	219.8	223.4	3.6	0.01	0.10		
2476	223.4	225.0	1.6	0.01	0.10		

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Zn %	Ni %
2484	225.0	226.5	1.5	TR.	0.10		
2485	243.1	244.2	1.1	0.02	0.30		
2486	244.2	246.2	2.0	TR.	0.10		
2487	246.2	247.6	1.4	0.015	0.30		
2488	247.6	249.1	1.5	0.015	0.20		
2489	249.1	250.1	1.0	0.0225	0.10		
2490	250.1	252.1	2.0	TR.	0.30		
2491	252.1	253.6	1.5	TR.	0.10		
2492	273.9	275.3	1.4	0.0175	0.60		
2493	275.3	277.0	1.7	0.035	0.30		
2494	277.0	279.0	2.0	0.01	0.30		
2495	279.0	282.1	3.1	TR.	0.10		
2496	282.1	283.3	1.2	0.01	0.20		
2497	283.3	286.2	2.9	0.050	3.20	1.13	
2498	286.2	287.6	1.4	0.0475	0.80	0.15	
2499	287.6	289.8	2.2	0.030	8.50	0.15	
2500	289.8	292.4	2.6	0.0375	4.30	1.64	
2501	292.4	294.4	2.0	0.065	1.60	0.26	
2502	294.4	295.9	1.5	0.020	0.40		
2503	295.9	297.9	2.0	0.050	0.40		0.190
2504	297.9	300.0	2.1	0.025	0.30		0.210
2520	300.0	301.0	1.0	0.020	1.70		
2521	301.0	303.0	2.0	0.050	0.30		
2522	303.0	304.8	1.8	0.010	0.60	1.23	
2523	304.8	305.8	1.0	0.010	0.20		
2524	305.8	308.1	2.3	0.020	0.10		
2525	308.1	309.1	1.0	TR.	0.30		
2526	309.1	311.8	2.7	TR.	0.10		
2527	311.8	313.3	1.5	0.090	0.40		
2528	313.3	316.3	3.0	TR.	0.05		
2529	316.3	317.5	1.2	0.01	0.20		
2530	317.5	319.8	2.3	TR.	0.10		
2531	319.8	322.0	2.2	0.045	0.30		0.02
2532	332.8	333.8	1.0	0.02	2.20		
2633	447.0	448.9	1.9	0.055	0.70		

D.D.H. T-37.

Location : 15E - 87S.
Azimuth : 0°
Dip at collar : 90°

Started : January 29th, 1957.
Completed : February 7th, 1957.
Logged by : J. Koene.

Pajari Compass Tetsts :

At 175.0'	Dip	87°	Azimuth	N81°W
At 320.0'	Dip	86°	Azimuth	S43°W
At 480.0'	Dip	83°	Azimuth	S57°W
At 610.0'	Dip	84°	Azimuth	S51°30'W.

Core Size : A. X. T.

Length of hole : 613.0'

0. Casing

141.0'
141.0' Highly Altered, Mineralized and Sheared Zone.
Probably an anorthosite as there are many scattered patches of leucoxene. Rock is intensively chloritized and sericitized. Cut by a number off calcite stringers and patches. Angle of shearing and stringers varies between 30-70° to cn..
163.5' a 4.5' zone of brecciation.
Irregular quartz patches and medium grained sericitized grey rock. No shearing, preceded by a 1' section of fine foliation of mineralized patches and fissures. Rock is relatively well mineralized, but most of the mineral consists of pyrrhotite and pyrite with a lot of siderite.
201.4' to201.9' A highly mineralized carbonate (siderite) stringer at 45° to cn..
233.0' Mineralization decreases. Texture reminds of original rock of more basic composition. Shearing becomes less distinct.
236.0' No mineral, except for a few fine mineralized calcite stringers. No distinct shearing. Still we find lineation.
At about 276.0' Mineralization starts again.
At about 282.0' Rock is highly mineralized.
Most pyrrhotite and chalcopyrite (magnetic).
From about 293.0' to 295.0' Irregular patches of carbonate.
Mineralization decreases to 299.6'. Then we have a mineralized zone again (most pyrite) to 320.4'.
No mineral up to 310.5'.
310.5 to 312.7' Highly mineralized zone (most pyrite). Down the hole no mineral, except for a few mineralized calcite-quartz stringers, which cut core at various angles.
325.0' to 392.5' Relatively more carbonate and more carbonitized stringers. A few of them are mineralized. A few scattered patches of leucoxene.

392.5' Relatively highly mineralized zone. Most of the mineral id pyrrhotite, some pyrite and a few chalcopyrite. Brecciated appearance due to irregular calcite-quartz patches and stringers. Colour of the high altered rock is more greenish.
At about 414.0' Relatively much sphalerite in the rock occuring in irregular reddish patches up to about 423.0'.
At about 431.0' Shearing at about 45° to cn., colour of rock is gray again. Less brecciated appearance.
At about 433.0' Rapid decrease of mineralization. After 436,0' no mineral, except for a few scattered patches of chalcopyrite, most in ireegular calcite stringers and patches. A few patches of leucoxene.

455.8'

455.8' High Mineralized Section

No distinct shearing. Relatively much sphalerite, pyrrhotite and pyrite and a few patches of chalcopyrite.

458.3'

458.3' End of Mineralized Zone

Going over in high altered zone. Texture of more basic rock. No mineral. Scattered patches of leucoxene.

466.0'

466.0' Mineralized Quartz-brecciated Zone

Mineral; most pyrrhotite and chalcopyrite with pyrite occurs in irregular patches and stringers between the quartz. Sharp contacts at about 20° to cn..
468.1' End of this brecciated zone. Down the hole there is still some mineral, but it occurs in scattered patches and stringers at irregular intervals.
498.2' Increase of mineralization. Rock appears more highly altered. No distinct shearing. Pyrrhotite and chalcopyrite.
506.0' Irregular carbonitized patches and stringers giverock a brecciated appearance.
508.9' End of mineralization. End of alteration. Alteration decreases rapidly.

514.8'

514.8' Transition Rock

Very slightly altered. Fairly massive, grey-greenish with large faint feldspar-phenos. Cut by a few up to a ½" mineralized carbonate stringers at various angles.
518.4' Faint, pale tombstone texture.
520.9' a irregular 2" reddish carbonate stringer, traces of dissemi nated mineral.
523.9' to 526.5' Lost core.
At about 528.0' Slight increase of alteration. Traces of mineral.
At about 531.0' Narrow irregular zones of higher chloritization with sharp borders. A lot of irregular patches of mauve calcite.
547.0' A number of irregular patches of brown, carbohitized leucoxene (?). Rock interrupted by a few narrow zones of relatively unaltered anorthosite, massive, 80% feldspars.
No shearing.
576.0' Colour pale greenish-grey with subhedral, up to ½" dirty white feldspar-phenos. No mineral.

At about 598.0' A 6" zone inwhich carbonate stringers show a certain lineation at about 45° to cn.. A few scattered patches of brown-yellow leucoxene.
No mineral.

613.0'

613.0' End of the hole

D.D.H. T-37

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
2746	140.0	145.0	5.0	0.010	0.10
2747	145.0	146.0	1.0	0.020	0.20
2748	146.0	149.7	3.7	TR.	TR.
2749	149.7	151.7	2.0	0.020	0.40
2750	151.7	153.7	2.0	0.020	0.40
2751	153.7	156.7	3.0	0.030	0.30
2752	156.7	158.7	2.0	0.025	0.40
2753	158.7	160.7	2.0	TR.	0.10
2754	160.7	163.7	3.0	0.020	0.20
2755	163.7	165.7	2.0	0.0175	0.10
2756	165.7	167.7	2.0	0.015	0.10
2757	167.7	169.7	2.0	0.030	0.30
2758	169.7	171.7	2.0	0.015	0.30
2759	171.7	173.1	1.4	0.0225	0.10
2760	173.1	175.0	1.9	0.025	0.10
2761	175.0	177.5	2.5	0.040	0.50
2762	177.5	180.5	3.0	0.020	0.20
2763	180.5	184.5	4.0	0.040	0.70
2764	184.5	186.5	2.0	0.0475	0.30
2765	186.5	188.0	1.5	TR.	0.10
2766	188.0	190.3	2.3	0.0175	0.10
2767	190.3	193.3	3.0	0.035	0.80
2768	193.3	195.3	2.0	0.010	0.30
2769	195.3	198.4	3.1	0.2875	0.10
2770	198.4	201.4	3.0	TR.	0.10
2771	201.4	202.4	1.0	0.0225	4.20
2772	202.4	204.4	2.0	0.025	0.10
2773	204.4	206.6	2.2	0.010	0.10
2774	206.6	208.2	1.6	0.215	0.40
2775	208.2	209.7	1.5	TR.	TR.
2776	209.7	210.7	1.0	TR.	0.10
2777	210.7	213.7	3.0	0.010	TR.
2778	213.7	218.7	5.0	0.010	0.10
2779	218.7	223.2	4.5	0.010	0.10
2780	223.2	225.7	2.5	0.010	0.30
2781	225.7	228.2	2.5	0.010	0.10
2782	228.2	229.2	1.0	0.020	0.40
2783	229.2	231.2	2.0	0.015	0.30
2784	231.2	232.7	1.5	0.010	0.50
2785	232.7	234.5	1.8	0.010	0.10
2786	234.5	235.5	1.0	0.030	1.50
2787	235.5	237.5	2.0	TR.	0.10
2788					
2789					

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
2788	237.5	239.5	2.0	TR.	0.20
2789	239.5	241.5	2.0	0.045	1.30
2790	241.5	243.8	2.3	0.025	2.00
2791	243.8	246.0	2.2	TR.	0.30
2792	246.0	250.0	4.0	TR.	0.20
2821	273.9	276.6	2.7	TR.	TR.
2822	276.6	278.1	1.5	TR.	0.50
2823	278.1	280.3	2.2	TR.	0.10
2824	280.3	283.2	2.9	0.035	2.90
2825	283.2	287.1	3.9	TR.	0.30
2826	287.1	289.1	2.0	TR.	0.20
2827	289.1	292.1	3.0	0.025	0.50
2828	292.1	294.6	2.5	0.010	0.40
2829	294.6	296.3	1.7	0.025	2.10
2830	296.3	299.3	3.0	TR.	0.10
2831	299.3	302.3	3.0	0.020	0.30
2832	302.3	310.3	8.0	TR.	TR.
2833	310.3	312.8	2.5	0.030	0.50
2834	312.8	315.0	2.2	0.010	0.20
2835	315.0	317.0	2.0	0.010	0.50
2836	317.0	319.0	2.0	TR.	0.10
2837	319.0	322.0	3.0	TR.	TR.
2838	322.0	325.0	3.0	TR.	0.10
2839	392.6	395.6	3.0	0.020	0.20
2840	395.6	397.6	2.0	0.020	0.60
2841	397.6	399.6	2.0	0.0225	0.90
2842	399.6	401.1	1.5	0.010	0.30
2843	401.1	403.8	2.7	TR.	0.10
2844	403.8	405.3	1.5	0.010	0.20
2845	405.3	408.3	3.0	0.015	0.10
2846	408.3	410.3	2.0	0.020	0.20
2847	410.3	412.3	2.0	0.020	0.90
2848	412.3	414.3	2.0	0.025	0.90
2849	414.3	416.8	2.5	0.0125	0.30
2850	416.8	419.0	2.2	0.055	2.30
2851	419.0	421.1	2.1	0.0375	0.40
2852	421.1	423.7	2.6	TR.	0.10
2853	423.7	425.7	2.0	TR.	0.10
2854	425.7	427.7	2.0	TR.	0.10
2855	427.7	429.7	2.0	TR.	0.10
2856	429.7	431.7	2.0	TR.	0.10
2857	431.7	433.7	2.0	TR.	0.10
2858	433.7	435.7	2.0	0.010	0.20
2859	435.7	437.7	2.0	0.010	0.30
2860	437.7	439.7	2.0	0.010	0.60
2861	439.7	441.7	2.0	0.010	0.30
2862	441.7	443.7	2.0	TR.	0.10

Sample Number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
2863	443.7	445.7	2.0	0.025	1.00
2864	445.7	447.2	1.5	0.020	1.10
2865	447.2	450.0	2.8	0.010	0.60
2913	450.0	452.0	2.0	TR.	0.30
2914	452.0	454.5	2.5		TR.
2915	454.5	455.8	1.3	TR.	TR.
2916	455.8	458.3	2.5	0.050	0.80
2917	458.3	460.0	1.7	0.010	0.20
2918	460.0	462.5	2.5	0.010	0.20
2919	462.5	465.0	2.5	0.010	TR.
2920	465.0	466.1	1.1	0.010	0.30
2921	466.1	468.2	2.1	0.175	3.10
2922	468.2	470.0	1.8	0.010	0.70
2923	470.0	472.7	2.7	0.010	0.50
2924	472.5	475.0	2.5	0.010	1.60
2942	475.0	480.0	5.0	0.010	0.40
2943	480.0	482.5	2.5	0.010	0.40
2944	482.5	485.0	2.5	0.010	0.80
2945	485.0	487.5	2.5	0.015	1.70
2946	487.5	490.0	2.5	0.020	0.40
2947	490.0	492.0	2.0	0.065	5.00
2948	492.0	498.0	6.0	0.020	0.20
2949	498.0	500.0	2.0	0.025	3.30
2950	500.0	503.0	3.0	0.015	1.80
2951	503.0	506.0	3.0	0.010	0.60
2952	506.0	508.0	2.0	0.020	5.60
2953	508.0	510.0	2.0	0.010	0.20

Preliminary Assays

D.D.H. T-37

Sample number	Section of hole From	To	Sample length	Ni. %	Co. %	Zn. %
2824	280.3	283.2	2.9	0.624	0.194	
2825	283.2	287.1	3.9	0.589	0.088	
2839	392.6	395.6	3.0	0.55	0.172	
2840	395.6	397.6	2.0	0.593	0.112	
2841	397.6	399.6	2.0	0.653	0.318	
2842	399.6	401.1	1.5	0.467	0.068	
2843	401.1	403.8	2.7	0.294	0.151	
2844	403.8	405.3	1.5	0.414	0.060	
2847	410.3	412.3	2.0	0.252	0.214	
2848	412.3	414.3	2.0	0.412	0.162	3.90
2849	414.3	416.8	2.5	0.607	0.160	2.06
2850	416.8	419.0	2.2	0.290	0.056	2.52
2851	419.0	421.1	2.1	0.576	0.094	5.25
2852	421.1	423.7	2.6	0.813	0.054	1.06
2853	423.7	425.7	2.0	1.210	0.076	0.52
2854	425.7	427.7	2.0	0.449	0.060	
2855	427.7	429.7	2.0	0.830	0.082	
2856	429.7	431.7	2.0	0.452	0.054	
2857	431.7	433.7	2.0	0.340	0.046	
2858	433.7	435.7	2.0	0.506	0.046	
2859	435.7	437.7	2.0	0.509	0.062	
2860	437.7	439.7	2.0	0.410	0.078	
2916	455.8	458.3	2.5	0.181	0.218	6.80
2921	466.1	468.2	2.1	0.165	0.172	
2950	500.0	503.0	3.0	0.256	0.080	

D.D.H. T39

Location : 17E 62S
Azimuth :
at 300.0: N1°30'E
at 530.0: N37°W
at 700.0: N73°W
Dip at collar: 90°
at 300.0': 88°
at 530.0': 78°
at 700.0': 72°

Core Size : A. X. T.

Length : 704.3'

Started : February 2nd, 1957.
Completed : February 14th, 1957.
Logged by : J. Koene. and
G. Allard.

0. Casing.

180.3'

180.3' Highly Unknown Rock — Soft, grey-greenish-brown, highly carbonitized. No mineral.

184.5'

184.5' Anorthosite — Highly altered (chloritized). Slightly sheared between 30-60° to cn.. Black with some scattered patches of brown leucoxene. No mineral. Cut by a few irregular calcite-quartz veinlets at about 30° to cn..
At about 216.0' A few scattered patches of chalcopyrite.
At about 200.0' Increase of a number of calcite stringers. Rock is interrupted by medium carbonitized patches or narrow zones. No mineral.
226.0' A large quartz-(calcite) brecciated zone with highly mineralized patches. Most pyrite. Calcite mineral could be ankerite (compare log of T-47).
This brecciated zone (at about 10') is followed at about 236.0' by a highly mineralized zone (mostly pyrite) with much carbonate (ankerite?).
266.0' Unknown rock. Not much carbonate and less mineral. Rock consists of much chloritoid (?) or green biotite crystals. (specim) scattered leucoxene.
This chloritoid zone appears just for about 2'. Than we have increase of mineralization and carbonate again.
276.5' 6" rock with chloritoid and much carbonate. Ankerite? No mineral.
The carbonate zone is highly mineralized. All mineral consists of pyrite in large, well shaped crystals. Rock remains highly carbonitized, but carbonate crystals become very small.
306.7' to 308.1' Narrow zone of unknown rock. Without mineral and carbonate, but with a large amount of chloritoid.
308.1' Carbonate mineral zone again (ankerite, pyrite).
321.5' Rapid decrease of mineral. Rock still highly carbonitized.
326.1' Abrupt change in texture.
Highly altered black chloritized rock

Highly altered, black, chloritized rock bears numerous 1/16" euhedral carbonitized spots, giveing rock a spotted appearance Also euhedral shaped chloritoid. A few scattered patches of brown, carbonitized leucoxene. Interrupted by irregular, large patches of highly carbonitized, pale grey rock, cut by irregular, milky-white calcite stringers. Mineral (most pyrite) occurs in the highly carbonitized zones. Rock as a whole is slightly mineralized.
335.0' to 336.5' and 341.0' to 343.1' Highly mineralized (pyrite) and carbonitized zones. The carbonate is probably ankerite.
In the non-carbonitized sections we find only traces of mineral. Down the hole at irregular intervals narrow sections of medium to high mineralization and relatively high carbonate amount. Amount of chalcopyrite in these patches increases

372.0'

372.0' Highly Mineralized Zone

Zone starts with an 4" calcite-quartz stringer. Sections bears almost 90% mineral of which the first 18", 60% chalcopyrite. Rest of the zone consists almost completely of pyrrhotite with a small amount of chalcopyrite. Within this section very narrow zones, highly mineralized with long, euhedral reddish quartz crystals. Mineralized section interrupted by a 4' non-mineralized, highly altered zone. Near the end of the zone amount of chalcopyrite increases.
389.2' Abrupt end of mineralized zone. Down the hole still high altered rock with mineralization at irregular intervals. Alteration decreases rapidly to medium and slight. (at about 401.0'). Rock becomes highly carbonitized and pale-grey. Cut by anumber of irregular calcite stringers and patches. No distinct shearing. A few patches of brown leucoxene. At irregular intervals mineralized (pyrite)
425.2' Highly mineralized zone (pyrrhotite) to about 429.0' Down the hole rock is medium to highly altered (sericite). No mineral, except for a zone from 442.5' to 449.8' (pyrrhotie and pyrite). Colour pale-equal-grey. Cut by a few irregul 1/8" calcite stringers at 60° to cn.. No distinct shearing. Traces of disseminated mineral.
At about 451.0' Indistinct shearing at about 30° to cn.. Highly mineralized patches (pyrrhotite and pyrite) at irregular, long intervals.
From about 456.0' to about 461.0' Highly altered zone with numerous small and large calcite patches. Colour fo rock more green.
461.0' to 464.3' Highly mineralized zone (pyrrhotite, pyrite and chalcopyrite). High mineralization ends abrupt.
Down the hole only mineral in patches and mineralized calcite stringers at irregular intervals.
From 480.7' to 486.0' Massive sulphides, mostly pyrrhotite at start and some chalcopyrite and sphalerite at the end.
From 486.0' to 498.0' Zone rich in calcite with large blebsof massive chalcopyrite around 492.0'.
Good pyrite and chalcopyrite around 497.0' for 3 feet.

Disseminated chalcopyrite from 500.0' to 523.0' in a peculiar medium to fine grained highly carbonitized rock, likely some type of diorite?

Rather sharp contact at 522.7' with a fine grained very dark chlorite rock. Few large grains orange leucoxene.

By 524.0' and down to 538.0' change to a sericitized and carbonitized anorthosite. With good relict texture. Pale green.

From 538.0' to 557.0' back to a massive highly chloritic rock with faintly preserved coarse original texture. Some large blebs of leucoxene.

557.0'

557.0' Anorthosite — Massive, patches still slightly altered with different texture. By 567.0' Good tombstone type. Anorthosite slightly altered.

At about 572.0' Gradual change of texture.

572.0'

572.0' Blue Anorthosite — Grades over from the foregoing rock. Blue-black matrix with large, irregular, yellow-white zoisitized patches. Massive. Contains narrow sections of relatively unaltered anorthosite with up to 80% feldspar. No mineral. This unaltered zones show often good tombstone texture.

651.5'

651.5' Anorthosite — As 557.0'. No mineral.

704.3'

704.3' End of the hole.

B.D.H. T-39

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3164	226.1	227.6	1.5	0.385	0.20	0.116	0.330
3165	227.6	230.6	3.0	0.010	0.20	TR.	0.028
3166	230.6	233.6	3.0	0.020	0.10	NIL	0.018
3167	233.6	236.9	3.3	TR.	TR.	TR.	NIL
3168	236.9	239.1	2.2	0.065	0.50	TR.	0.038
3169	239.1	242.1	3.0	0.185	0.30	TR.	0.098
3170	242.1	244.6	2.5	0.060	0.40	TR.	0.074
3171	244.6	246.6	2.0	0.020	0.20	TR.	0.070
3172	246.6	249.6	3.0	0.175	0.50	0.020	0.094
3173	249.6	252.6	3.0	0.090	0.60	0.030	0.122
3174	252.6	255.6	3.0	0.195	0.80	0.123	0.200
3175	255.6	258.6	3.0	0.060	0.40	0.030	0.216
3176	258.6	261.6	3.0	0.115	0.90	0.020	0.166
3177	261.6	265.0	3.4	0.115	0.80	0.040	0.250
3178	265.0	267.5	2.5	0.020	TR.	TR.	TR.
3179	267.5	270.5	3.0	0.040	0.80	0.160	0.106
3180	270.5	272.5	2.0	0.115	0.20	0.060	0.124
3181	272.5	274.6	2.1	0.030	0.40	0.142	0.268
3182	274.6	277.6	3.0	0.150	0.20	0.040	0.290
3183	277.6	280.0	2.4	0.250	1.80	0.050	0.272
3184	280.0	283.0	3.0	0.020	TR.	NIL	0.046
3185	283.0	285.5	2.5	0.090	TR.	0.030	0.188
3186	285.5	288.5	3.0	0.160	1.80	0.010	0.214
3187	288.5	290.5	2.0	0.125	0.30	0.100	0.376
3188	290.5	292.5	2.0	0.020	0.30	TR.	0.062
3189	292.5	294.8	2.3	0.020	0.20	TR.	0.400
3190	294.8	297.8	3.0	0.150	1.10	0.020	0.298
3191	297.8	300.0	2.2	0.135	1.60	0.030	0.326
3192	300.0	302.5	2.5	0.020	0.20	TR.	0.062
3193	302.5	304.5	2.0	0.500	0.20	TR.	0.236
3194	304.5	307.0	2.5	0.395	0.50	0.135	0.164
3195	307.0	308.5	1.5	0.030	0.20	0.010	0.076
3196	308.5	310.5	2.0	0.140	0.30	0.229	0.138
3197	310.5	313.5	3.0	0.025	0.10	0.560	0.192
3198	313.5	316.5	3.0	0.050	1.80	0.339	0.268
3199	316.5	319.5	3.0	0.060	0.20	0.154	0.156
3200	319.5	322.0	2.5	TR.	0.20	0.420	0.114
3201	322.0	325.0	3.0	0.010	0.10	0.100	0.074
3233	325.0	329.5	4.5	TR.	0.10	0.040	0.022
3234	329.5	331.5	2.0	0.030	0.20	0.030	0.05
3235	331.5	334.5	3.0	0.020	TR.		
3236	334.5	337.0	2.5	TR.	0.20	0.064	0.05
3237	337.0	341.0	4.0	0.020	TR.		
3238	341.0	343.5	2.5	0.025	0.50	0.372	0.16
3239	343.5	346.5	3.0	TR.	TR.		

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3240	346.5	348.5	2.0	0.010	0.20		
3241	348.5	350.8	2.3	0.020	0.10		
3242	350.8	355.8	5.0	0.010	0.40	0.228	0.046
3243	355.8	358.8	3.0	0.010	0.40		
3244	358.8	363.8	5.0	0.020	0.40		
3245	363.8	366.7	2.9	0.010	0.10		
3246	366.7	371.7	5.0	0.020	0.40	0.132	0.098
3247	371.7	373.7	2.0	0.010	4.50	0.560	0.448
3248	373.7	380.0	6.3	0.020	0.30	1.306	0.184
3249	380.0	385.0	5.0	0.010	0.30	1.414	0.236
3250	385.0	389.6	4.6	0.0125	1.30	1.116	0.194
3251	389.6	392.8	3.2	0.010	0.20	NIL	0.054
3252	392.8	398.6	5.8	0.020	0.60	1.020	0.218
3253	398.6	401.0	2.4	0.020	0.10	0.200	0.116
3254	401.0	405.0	4.0	0.020	0.40	0.180	0.170
3255	405.0	410.0	5.0	0.010	TR.		
3256	410.0	415.0	5.0	0.010	0.10	0.010	0.092
3257	415.0	420.0	5.0	TR.	0.10		
3258	420.0	425.0	5.0	TR.	TR.		
3259	425.0	429.0	4.0	0.0125	0.30	1.410	0.148
3260	429.0	435.0	6.0	0.010	0.10	TR.	TR.
3261	435.0	442.5	7.5	0.010	0.10	TR.	0.050
3262	442.5	446.0	3.5	0.0175	0.20	0.566	0.270
3263	446.0	450.0	4.0	0.020	0.10	0.020	0.036
3264	450.0	454.0	4.0	0.010	0.10	0.020	TR.
3265	454.0	456.0	2.0	0.010	0.30	0.326	0.206
3266	456.0	461.0	5.0	0.010	0.20	0.205	0.046
3267	461.0	464.5	3.5	0.010	0.70	0.878	0.151
3268	464.5	468.5	4.0	0.020	0.20	0.228	0.082
3269	468.5	472.5	4.0	0.0125	0.20	0.342	0.074
3270	472.5	475.0	2.5	0.010	0.20	0.050	0.030
3352	475.0	480.5	5.5	0.010	0.70	0.190	TR.
3353	480.5	486.0	5.5	0.040	1.40	0.421	0.138
3354	486.0	491.6	5.6	0.010	0.30		
3355	491.6	492.6	1.0	0.055	16.30	TR.	TR.
3356	492.6	496.6	4.0	0.0325	0.30		
3357	496.6	500.0	3.4	0.020	3.40	0.256	0.112
3358	500.0	506.0	6.0	0.030	2.60	0.050	0.064
3359	506.0	510.0	4.0	0.0225	1.10	NIL	TR.
3360	510.0	515.0	5.0	0.010	0.90	0.040	0.036
3361	515.0	520.0	5.0	0.010	0.30	NIL	TR.
3362	520.0	525.0	5.0	TR.	0.60		
Avge	226.1	316.5	90.4	0.1084	0.532	0.067	0.162
	371.7	405.0	33.3			0.861	0.196
	454.0	475.0	21.0			0.341	0.089
	475.0	525.0	50.0	0.0191	1.426		

D.D.H. T-45

Location : L13E - 27S
Azimuth :
Dip at collar : 90°
Pajari Compass Tests:

Started : February 4th, 1957.
Completed : February 9th, 1957.
Logged by : J. Koene.

At 160.0'	Dip 91°	Azimuth	N24°30'E
At 350.0'	Dip 90°	Azimuth	S51°E
At 570.0'	Dip 88°	Azimuth	N20°E

Core Size : A. X. T.

Length of hole : 571.5'.

0. Casing

60.0'

60.0' Highly Altered and Mineralized Zone

Grey-black, slightly carbonitized. No distinct texture. Probably an anorthosite. Pale whitish bands show lineation at 70° to cn.,but no distinct shearing. Cut by a few irregular fine calcite stringers and a few calcite patches.
65.0' Mineralization starts. Most of mineral is magnetic pyrrhotite. Mineral is arranged in irregular fissures, according to the pattern of lineation at 70° to cn.. Cut by a few irregular quartz-calcite stringers at various angles.
71.0' to 72.0' Zone with relatively more chalcopurite.
75.0' Mineralization increases. More chalcopyrite appears into the pyrrhotiete. But still there is more pyrrhotite. Rock type is not changed. Still highly altered and distinctly sheared at about 40° to cn..
At about 128.0' Brecciated quartz zone (mineralized).
148.0' Mineralization most in irregular carbonitized patches and stringers. Rock is grey. Alternates with darker, more chloritized zones. Still a (faint) shearing at about 30-40° to cn..
149.4' End of mineralized zone.
160.0' In a dark matrix fresh green irregular spots of sericite. Grey-whitish patches of carbonate and some brown leucoxene No mineral.
200.7' Rock becomes grey without a distinct texture. Change is rather abrupt. Medium to highly carbonitized. Cut by a number of irregular calcite stringers, giving rock a brecciated appearance. A few traces of chalcopyrite in carbonate stringers.
216.5' Huge cloudy shaped spots of black chlorite in a grey, carbonitized matrix. A few scattered spots of leucoxene. The calcite stringers havr highly chloritized borders of about 2 m.m.
227.0' The at 216.0' mentioned texture becomes palmr. At 228.0' rock is plain grey altered anorthosite (?).

229.7'

229.7' Highly Mineralized Zone

up to 245.5'. Average of 5-6% copper?.
Most cahlcopyrite and pyrrhotite in a intimate mixture with irregular carbonate patches and narrow zones of very high alteration and non-mineralization. Carbonate occurs also in rock in seperate red up to ¼" crystals.
At about 245.0' Mineralization decreases rapidly. After 246.8' no mineral, except for slightly mineralized irregular calcite stringers, which cut core at various angles.
Rock is without a distinct texture and dark green with a number of large, irregular calcite patches. Cut by irregular calcite stringers at various angles. Some of them are slightly mineralized.
259.5' Abrupt start of highly mineralized zone. Most chalcopyrite. Also lot of pyrrhotite. Cut by a few irregular quartz or quartz-calcite stringers and patches.
273.5' Medium mineralization in relatively high altered black chloritized rock, without distinct shearing.
Mineral occurs in irregular patches and fissures, accompanied by quartz-calcite or siderite. Although there is no distinct shearing, in some places rock shows an ireggular banded arrangement of the chalcopyrite and pyrrhotite (lineation?).
At about 288.0' Rock is highlu mineralized.
293.5' Mineralization decreases rapidly to slight. Rock becomes more carbonitized.
From about 302.0' to 319.0' Rock is highly carbonitized, pal grey with disseminated mineral. Lineation at about 60° to cn

321.0'

321.0' Anorthosite

70% feldspar, relatively slightly altered to unaltered. Euhedral, dirty white, slightly epidotized feldsapr-phenos, fairly massive. Traces of mineral. Medium grey, slightly chloritized mafics. Cut by a few irregular fine epidotized feldspar (zoisite ?) stringers at various angles.
357.7' A 1.5" mineralized (pyrite) calcite stringer at 40° to cn.. Slight increase of mineralization in calcite stringers and veinlets.
360.5' A 15" mineralized calcite stringer.
366.5' Coarse tombstone texture of the anorthosite. Interstices filled with slightly chloritized black mafics and mauve calcite.
At about 393.0' Texture indistinct.
At about 402.0' Slight increase of alteration (sericite and chlorite) texture lost. Massive, black rock with scattered patches of brown leucoxene. No mineral.
Cut by a few up to 1" calcite stringers at various, small angles.
From about 417.0' Texture reminds of rock of more basic composition.
425.8' A 2" mineralized calcite stringer at about 0° to cn..
Down the hole medium altered zones, alternate with relatively unaltered section.
Unaltered rock is dominant. Especially the more altered part are cut by a number off fine and narrow irregular calcite stringers at various angles.

The relatively unaltered parts show a perfect, fresh anorthosite texture with euhedral to subhedral, slightly epidotized feldspar-phenos and numerous irregular patches of brown leucoxene.
488.0' ± Good tombstone texture. No mineral at all.
At about 498.0' Rapid increase of alteration (chlorite, epidote, carbonate).
Altered zone shows shearing at 30° to cn.. Interrupted by relatively unaltered anorthosite.
524.6' End of alteration and shearing. Down the hole unaltered, massive, anorthosite with a few zones of tombstone texture. No mineral.

571.0'

571.0' End of the hole

D.D.H. T-45

Samples andassays
Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
2866	60.0	63.2	3.2	0.010	0.30
2867	63.2	65.4	2.2	0.010	0.30
2868	65.4	67.4	2.0	0.010	0.60
2869	67.4	69.4	2.0	0.010	0.60
2870	69.4	70.9	1.5	0.020	0.30
2871	70.9	72.9	2.0	0.025	8.00
2872	72.9	75.0	2.1	0.030	1.20
2880	75.0	77.0	2.0	0.0275	1.70
2881	77.0	79.0	2.0	0.025	2.30
2882	79.0	80.5	1.5	0.030	4.50
2883	80.5	83.0	2.5	0.020	4.20
2884	83.0	85.0	2.0	0.035	3.40
2885	85.0	87.0	2.0	0.030	0.80
2886	87.0	89.0	2.0	0.020	1.20
2887	89.0	91.5	2.5	0.020	4.00
2888	91.5	93.5	2.0	0.030	1.40
2889	93.5	95.5	2.0	0.020	0.10
2890	95.5	97.5	2.0	0.175	0.20
2891	97.5	100.0	2.5	TR.	0.10
2892	100.0	101.7	1.7	TR.	0.10
2893	101.7	104.4	2.7	0.050	5.20
2894	104.4	107.4	3.0	TR.	0.10
2895	107.4	110.0	2.6	0.010	0.20
2896	110.0	113.5	3.5	TR.	TR.
2897	113.5	115.5	2.0	0.010	0.10
2898	115.5	118.5	3.0	0.010	0.10
2899	118.5	121.5	3.0	0.010	0.20
2900	121.5	124.5	3.0	0.0125	0.20
2901	124.5	127.0	2.5	0.025	0.10
2902	127.0	129.5	2.5	0.060	2.20
2903	129.5	131.0	1.5	0.060	1.00
2904	131.0	132.9	1.9	0.010	0.10
2905	132.9	135.8	2.9	0.010	0.60
2906	135.8	137.8	2.0	TR.	0.10
2907	137.8	142.5	4.7	TR.	TR.
2908	142.5	144.5	2.0	TR.	0.30
2909	144.5	146.5	2.0	0.020	0.30
2910	146.5	149.5	3.0	0.045	1.20
2911	149.5	153.5	4.0	TR.	0.20
2912	189.2	190.5	1.3	0.010	0.60
2956	229.8	230.8	1.0	0.0275	8.0
2957	230.8	233.0	2.2	0.035	9.50
2958	233.0	234.5	1.5	0.045	14.40

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
2959	234.5	236.5	2.0	0.045	8.20
2960	236.5	238.5	2.0	0.050	8.00
2961	238.5	241.5	3.0	0.020	5.60
2962	241.5	244.0	2.5	0.030	3.10
2963	244.0	245.5	1.5	0.040	3.10
2964	245.5	250.0	4.5	0.010	0.60
3002	250.0	252.5	2.5	0.015	1.30
3003	252.5	255.0	2.5	0.0175	2.20
3004	255.0	257.0	2.0	0.010	1.20
3005	257.0	259.2	2.2	0.0325	0.40
3006	259.2	261.2	2.0	0.0425	12.50
3007	261.2	263.7	2.5	0.010	7.50
3008	263.7	266.7	3.0	0.0275	5.90
3009	266.7	268.7	2.0	0.035	11.40
3010	268.7	270.7	2.0	0.040	6.50
3011	270.7	273.4	2.7	0.0675	5.10
3012	273.4	276.9	3.5	0.0175	1.80
3013	276.9	278.9	2.0	0.015	1.40
3014	278.9	281.4	2.5	0.015	6.20
3015	281.4	283.4	2.0	0.0175	1.40
3016	283.4	285.4	2.0	0.0175	1.00
3017	285.4	287.4	2.0	0.0125	2.80
3018	287.4	289.8	2.4	0.020	9.40
3019	289.8	292.3	2.5	0.0325	3.80
3020	292.3	293.8	1.5	0.060	7.60
3021	293.8	296.3	2.5	0.0575	1.40
3022	296.3	299.3	3.0	0.0275	2.70
3023	299.3	302.3	3.0	0.0225	1.40
3024	302.3	305.3	3.0	0.020	0.80
3025	305.3	308.8	3.5	0.0275	3.40
3026	308.8	310.4	1.6	0.0125	0.40
3027	310.4	314.9	4.5	0.010	0.20
3028	314.9	318.4	3.5	TR.	0.30
3029	318.4	319.7	1.3	TR.	0.20
3030	319.7	320.9	1.2	0.0225	0.80
3031	352.5	354.5	2.0	0.055	1.10
3032	354.5	357.7	3.2	TR.	0.20
3033	357.7	359.2	1.5	0.035	7.70
3034	359.2	360.6	1.4	0.020	0.80
3035	360.6	361.8	1.2	0.020	3.60

Preliminary Assays

D.D.H. T-45

Sample number	Section of hole From	To	Sample length	Ni. %	Co. %
2868	65.4	67.4	2.0	0.489	0.124
2869	67.4	69.4	2.0	0.490	0.150
2870	69.4	70.9	1.5	0.408	0.162
2871	70.9	72.9	2.0	0.248	0.064
2872	72.9	75.0	2.1	0.410	0.128
28					
2883	80.5	83.0	2.5	0.865	0.186
2884	83.0	85.0	2.0	0.546	0.228
2885	85.0	87.0	2.0	0.985	0.208
2886	87.0	89.0	2.0	0.432	0.138
2887	89.0	91.5	2.5	0.809	0.152
2888	91.5	93.5	2.0	0.740	0.204
2902	127.0	129.5	2.5	0.118	0.068
2956	229.8	230.8	1.0	0.497	0.130
2957	230.8	233.0	2/2	0.859	0.130
2958	233.0	234.5	1.5	0.292	0.320
2959	234.5	236.5	2.0	0.198	0.184
2960	236.5	238.5	2.0	0.198	0.104
2961	238.5	241.5	3.0	0.08	0.220
2962	241.5	244.0	2/5	0.271	0.058
2963	244.0	245.5	1.5	0.318	0.042

D.D.H. T-46

Location : L14E 58'S
Azimuth :
Dip at collar : 90°
at 200.0' : 86°30'
at :

Core Size : A. X. T.

Length of hole : 527.6'

Started : February 8th, 1957.
Completed : February 16th, 1957.
Logged by : J. Koene and G. Allard.

0. Casing

82.2'

82.2' Highly Altered Mineralized Sheared Zone

Mineral (pyrite) occurs most in bands or stringers. Very coarse grained euhedral crystals. Rock is black, highly chloritized, sheared at about 45° to cn.. Sericitized patches of pale-greenish grey colour are aranged in shearing direction. A few scattered patches of brown leucoxene (carbonitized).

90.0' No mineral. Only highly altered and sheared rock at 45° to cn..

119.8' Brecciated (carbonate ankerite?) highly mineralized zone Sharp contact at 30° to cn.. (pyrrhotite, chalcopyrite and pyrite Interrupted by narrow zones of non-mineralized, highly altered rock, that has been sheared at 45° to cn..

124.7' Highly altered rock again with shearing at 45° to cn.. Colour greenish-grey with lineated lenticular black spots of chloritized mafics. Cut by a number of irregular ¼ to ½" quartz-calcite stringers at about 50° to cn.. Some of these stringers are medium to highly mineralized (pyrite and chalcopyrite) and sometimes they bear siderite. Traces of disseminated mineral.

At about 150.0' Rock is highly carbonitized. Colour more black-grey. Rock is highly chloritized. Shearing still at 45° to cn..

171.7' Highly altered, chloritized rock but now with numerous irregular spots of carbonate, saussurite? and sericite. Scattered patches of mineral. A few mineralized quartz and calcite-quartz stringers at45° to cn.. Also scattered patches of pinkish yellow leucoxene.

193.3' Rock texture changes abruptly. Pale equal grey, with large irregular spots of carbonate. No shearing. A few scattered patche of brown carbonitized leucoxene? Cut by a few 1/4-1/2" slightly mineralized quartz stringers at various angles. Except for these stringers, there is no mineral. Rock seems to be still highly altered.

200.0' to 209.0' Highly chloritized zone, veined by calcite stringers.

205.0'-219.0' Mineralized with cahlcopyrite and minor pyrite in a matrix of quartz. Should assay .8-1%.

219.0' to 407.0' Highly chloritized and sericitized.

Original ? except for some patches of definite anorthosite very highly altered but still recognizable anorthosite. A great number of pods and veins of calcite all over.
From 310.0' to 345.0' Disseminated pyrite blebs with very little chalcopyrite. Chlorite is very dark green within that zone.
345.0' to 360.0' Good band of anorthosite - anorthosite-transition, highly altered with a number of pods of epidote.
360.0' to 407.0' Dark green chlorite schist with numerous veinlets of calcite and blebs here and there of chalcopyrite and minor pyrite.
Not worth assaying.

407.0'

407.0' Ore Zone

407.0' to 435.0' Massive sulphides replacement. Some sections of massive chalcopyrite.
435.0' to 440.0' Waste, black schist.
440.0' to 455.0' Good ore with predomminance of quartz and chalcopyrite. Still patches of chalcopyrite and pyrrhotite but in general more siliceous.

455.0' to 461.0' Pyrrhotite and chalcopyrite, 2 feet of chloritized material at 457.0'.
461.0' to 463.0' Zone of pyrite at first foot. Then going into calcite-rich zone and highly chloritized anorthosite.

465.0'

465.0' Anorthosite

Good coarse tombstone type anorthosite. Leucoxene grains here and there, but very few. Few specks pyrite. Slight sericitization throughout. Contains narrow sections of transition rock.

527.6'

527.6' End of the hole.

D.D.H. T-46

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3205	82.2	86.0	3.8	0.020	0.20		
3206	86.0	87.3	1.3	0.055	0.30		
3207	87.3	88.6	1.3	TR.	0.20		
3208	88.6	90.0	1.4	0.020	0.30		
3209	90.0	95.0	5.0	0.010	0.20		
3210	95.0	100.0	5.0	0.030	0.10		
3211	100.0	105.0	5.0	0.010	0.10		
3212	105.0	110.0	5.0	0.010	0.10		
3213	110.0	114.0	4.0	0.010	0.10		
3214	114.0	117.0	3.0	0.050	0.30		
3215	117.0	119.7	2.7	0.020	0.30		
3216	119.7	121.7	2.0	0.050	0.50	TR.	0.412
3217	121.7	123.0	1.3	0.070	0.40	TR.	0.282
3218	123.0	125.0	2.0	0.050	0.80	NIL	0.342
3363	209.0	214.0	5.0	0.020	1.80		
3364	214.0	219.0	5.0	0.055	0.80		
3390	370.0	375.0	5.0	0.010	1.20		
3385	375.0	380.0	5.0	TR.	0.60		
3386	380.0	385.0	5.0	0.0175	0.50		
3387	385.0	390.0	5.0	TR.	0.60		
3388	390.0	395.0	5.0	TR.	0.90		
3389	395.0	400.0	5.0	0.010	1.10		
3373	400.0	402.5	2.5	0.010	1.20	0.010	0.052
3374	402.5	407.5	5.0	0.010	2.80	0.050	0.072
3375	407.5	412.0	4.5	0.0225	5.50	0.384	0.114
3376	412.0	416.0	4.0	0.035	8.30	NIL	0.138
3377	416.0	418.5	2.5	0.2425	7.30	0.040	0.118
3378	418.5	421.3	2.8	0.260	17.50	NIL	0.124
3379	421.3	425.0	3.7	0.0475	9.70	0.030	0.082
3380	425.0	430.0	5.0	0.025	5.30	0.279	0.192
3381	430.0	435.0	5.0	0.055	3.60	0.262	0.174
3382	435.0	440.0	5.0	0.010	0.60	TR.	TR.
3383	440.0	445.0	5.0	0.020	4.40	0.284	0.134
3384	445.0	450.0	5.0	0.030	6.10	0.319	0.132
3391	450.0	455.0	5.0	0.050	6.10	0.324	0.158
3392	455.0	460.0	5.0	0.020	4.10	0.230	0.158
3393	460.0	465.0	5.0	0.025	1.30	0.050	0.060
Avge	209.0	219.0	10.0	0.0375	1.30		
	390.0	465.0	75.0	0.0407	4.61		
	400.0	465.0	65.0			0.169	0.116

D.D.H. T-47

Location : L15E 0'+00
Azimuth :
Dip at collar : 90°

Started : February 8th, 1957
Completed : February 13th, 1957
Logged by : J. Koene.

Core Size : A. X. T.
Length of hole : 599.1'

0. Casing

101.0'

101.0' Highly Altered Mineralized Zone

Probably altered anorthosite. Section starts with 6' of highly shearing, sericitized, chloritized black rock. Shearing almost flat to core. A few scattered patches of leucoxene. No mineral
106.5' A 7' quartz-calcite- brecciated or vein zone, with mineralized patches (chalcopyrite and pyrite).
114.0' Highly mineralized section up to about 125.0'. Most pyrite, 60-70% mineral, much calcite. Rock is slightly to medium carbonitized (Ankerite?). No distinct shearing.
At about 125.0' Mineralization increases rapidly to medium. Still most pyrite. In this zone we see shearing at various angles to cn., between 30-60°.
At about 127.0' Slightly mineralized to traces disseminated pyrite.
At about 137.0' Rapid increase of mineralization. Almost all consist of pyrite, occuring in relatively coarse euhedral grai up to ¼". About 60% mineral and 30% calcite. No distinct shearing in the highly mineralized parts.
At about 138.0' More chalcopyrite and pyrrhotite but pyrite still dominant.
144.5' Abrupt decease of mineralization. Mineral occurs in scattered patches. Rock still highly altered and sheared at 3(50° to cn..
At about 153.0' Medium carbonitized.
156.1' Increase of mineralization starting with a 3" calcite-brecciated stringer at 40° to cn.. Most pyrite, very fine grai ned through rock. Mineral shows linsation at 45° to cn..
161.3' 4" section with almost massive chalcopyrite and pyrrhotite. Slight increase of chalcopyrite accompagnied with decrease of mineralization.
166.3' A3' quartz-brecciated zone with irregular patches of chalcopyrite and pyrrhotite.
168.4' Highly altered rock. Sheared at about 45° to cn..
A few narrow bands and some patches of pyrite. Colour greenis grey (sericite) with numerous bands of black chlorite (45° to cn..) A few large, irregular calcite patches and stringers. Some of them very slight mineralized. A few spots of pale-pi leucoxene.

284.6' to 285.6' A medium mineralized quartz-calcite stringer (pyrite) about 70° to cn.. After 275.0' shearing becomes less distinct and disappears gradually. Rock is cut by a few more calcite-quartz stringers up to 1" at various angles.
A few scattered patches of mineral (chalcopyrite and pyrite) at irregualr intervals.
334.0' to 335.4' A slightly mineralized quartz stringer.
At about 337.0' Rock becomes slightly to medium carbonitized. Colour mote greyish. No mineral. In places texture suggests an original anorthosite. A little scattered yellowish leucoxene.
355.0' Calcite stringers become numrous. Medium grey to dark grey, carbonitized in spots. In some places coarse black chloritized phenos are noted but mostly texture is obliterated by intense chloritization.
Slightly sheared at 40° to cn.. Contains a few scattered splashes of pyrite, pyrrhotite and cahclopyrite usually associated with stringers of calcite.
From 390.0' to 395.0' Mineral increases but not enough for ore.
407.3' Ore zone statrs abruptly. About 70% total cahclopyrite, pyrote and pyrrhotite slightly prodominant. (8% copper).
Gangue is quartz with a little siderite?.
416.7' 50% total pyrrhotite and chalcopyrite (5% copper) in dark green chlorite gangue, cut by narrow brecciated quartz stringers.
421.8' Quartz vein gangue 50% mineral. (4-5% copper).
427.0' Dark grren and grey green chlorite gangue, silicified in places. Cut by irregular calcite and quartz veiblets. 30% mineral (3-5% copper).
451.0' Abrupt end of the high mineralized zone.

451.0'

451.0' Anorthosite

Slightly altered, rapid decrease of alteration. Slightly altered part is slightly carbonitized.
453.0' Relatively unaltered. Massive, pale grey. A number of ehhedral, small whitish feldspar-phenos, getting larger down the hole. No mineral.
At about 461.0' Polkadot texture. Interstices filled with mauve and grey calcite. Feldspar-phenos have irregular chloritized borders.
470.5' 10' zone of coarse tombstone texture. Interstices highly carbonitized, mauve calcite.
Rock is interrupted by narrow and relatively longer section of medium to high altered rock. Altered parts cut by a number of fine and up to 3/4" calcite-quartz stringers at 30-45o to cn.. Scattered traces of mineral.
530.0' to 532.0' Zone of slightly altered diorite?, pale grey with numerous irregualr dirty white feldspar-phenos.
At about 537.0' Alteration seems to increase slightly. Intervals between altered parts become shorter.
At about 550.0' Rock grades over into a Transition rock with about 50% feldspar.

571.0' Interstices filled with grey-green calcite. Much more carbonate in long, irregular patches. Rock seems to be highly altered. A few scattered patches of brown leucoxene. No mineral.
At about 573.0' Rapid decrease of alteration. Rock relatively unaltered. Fresh.
594.5' Tombstone texture. No mineral.

599.1'

599.1' End of the hole.

D.D.H. T-47

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3135	105.0	107.0	2.0	0.010	0.20		
3136	107.0	110.0	3.0	0.020	0.10		
3137	110.0	111.0	1.0	0.040	11.90		
3138	111.0	113.0	2.0	0.010	0.10		
3139	113.0	115.0	2.0	0.300	0.70		
3140	115.0	117.5	2.5	0.130	1.50		
3141	117.5	120.0	2.5	0.060	0.60		
3142	120.0	122.5	2.5	0.030	0.40		
3143	122.5	124.0	1.5	0.030	0.90		
3144	124.0	126.6	2.6	0.115	1.40		
3145	126.6	133.5	6.9	0.027	0.30		
3146	133.5	136.0	2.5	0.180	1.20		
3147	136.0	138.0	2.0	0.210	1.00		
3148	138.0	140.7	2.7	1.150	0.80	0.162	0.278
3149	140.7	141.7	1.0	0.200	0.60	0.123	0.166
3150	141.7	144.3	2.6	0.230	2.00	0.207	0.440
3151	144.3	147.3	3.0	0.010	0.10		
3152	147.3	150.0	2.7	0.075	0.20		
3153	150.0	151.0	1.0	0.145	0.50		
3154	151.0	153.0	2.0	0.020	1.10		
3155	153.0	158.0	5.0	0.020	0.40	0.040	0.038
3156	158.0	161.0	3.0	0.010	0.40	0.109	0.106
3157	161.0	162.0	1.0	0.065	7.30		
3158	162.0	165.0	3.0	0.022	7.20	0.040	0.104
3159	165.0	166.2	1.2	0.020	1.30		
3160	166.2	167.2	1.0	0.065	6.40	NIL.	0.050
3161	167.2	168.5	1.3	0.010	0.30		
3162	168.5	171.0	2.5	0.010	0.30		
3163	171.0	175.0	4.0	TR.	TR.		
3202	303.0	305.0	2.0	0.030	2.30		
3203	320.0	325.0	5.0	TR.	0.20		
3204	334.0	335.5	1.5	0.030	0.80		
3219	390.0	394.0	4.0	0.020	1.30		
3220	394.0	399.0	5.0	0.010	0.30		
3221	399.0	404.0	5.0	0.010	0.30		
3222	404.0	407.3	3.3	0.010	0.10		
3223	407.3	412.3	5.0	0.175	3.50	0.255	0.156
3224	412.3	416.8	4.5	0.060	13.30	0.475	0.118
3225	416.8	419.7	2.9	0.020	8.00	0.279	0.068
3226	419.7	422.7	3.0	0.010	6.80	0.582	0.138
3227	422.7	426.7	4.0	0.060	7.40	0.248	0.094

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3228	426.7	430.2	3.5	0.070	9.80	0.184	0.082
3229	430.2	435.0	4.8	0.020	6.50	0.157	0.142
3230	435.0	440.0	5.0	0.030	1.30	0.476	0.078
3231	440.0	445.0	5.0	0.3375	3.10	0.196	0.070
3232	445.0	450.0	5.0	0.280	4.30	0.446	0.114
Avge	110.0	167.2	57.2	0.123	1.46		
	161.0	167.2	6.2	0.0355	5.94		
	390.0	450.0	60.0	0.088	4.476		
	407.3	450.0	42.7	0.118	6.090	0.327	0.107

D.D.H. T-54

Location : L17E 25'N

Dip at collar : 90°
at 200.0' : 87°
at 400.0' : 89°30'
at 574.0' : 85°30'

Core Size : A. X. T.

Length of hole: 574.0'

Started : February 17th, '5
Completed : March 1st, 1957.
Logged by : J. Keene,
G. Allard and
C. Krause.

C. Casing

182.5'

182.5' Mineralized Carbonate-Quartz Zone
Mostly massive, fine grained pyrite.

186.0'

186.0' Highly Altered Mineralized Zone
First 5' have much quartz. Rock is highly sheared at 50° to cn..
Mineral occurs massive or aranged in bands, according to shearing direction. Mineralization is medium to high.Contains sections of relatively unaltered anorthosite. Altered rock is dark-black chloritized with a number of irrgular calcite patches.
230.0' Siderite-pyrite zone starting with 12" of quartz and siderite (ankerite?). A few large patches of chalcopyrite at irregular intervals.
258.0' Contains narrow sections which are relatively rich in chloritoid. Highly mineralized (pyrite).
274.5' End of siderite zone. Rock still highly altered. More greenish grey in colour. A number of small patches of pyrite and numerous black spots of chlorite. Sheared at about 60-70° to cn..
300.0' Rock contains patches and bands of mineral at irregular intervals.
326.0' Amount of carbonate and mineral increases.
327.0' High mineralization, starting with a section of fine grained carbonate (calcite) and a number of coarse pyrite crystals and much amphibole. 20% mineral.
337.0' Increase of amount of pyrrhotite and chalcopyrite. 40% minera
360.3' 50-60% mineral, mostly pyrrhotite.
375.0' to 385.0' pyrrhotite, chalcopyrite and quartz, minor pyrite.
385.0' to 390.0' Carbonitized quartz pyrite. 1 bleb chalcopyrite.
390.0' to 400.0' Chlorite, pyrite, quartz veinlet, blebs chalcopyrite.
400.0' to 445.0' Carbonitized sections, quartz veinlets, chalcopyrite blebs, quite a bit of pyrite here and there, sphalerite vein in quartz vein.
3.5' heavily mineralized grey and white carbonate vein at 40° to cn at 427.5'.
445.0' Abrupt end to mineralization, coarse texture, produced by black phenos in a light matrix. This grades to faintly mottled grey zone by 446.0', the coarse texture being maintained by indistinct coarse light grey, highly sericitized pheno- remnants. Rock is massive, highly carbonitized, brown leucoxene, common, but no sulphides Cut by a number of fine calcite stringers.

454.5'

454.5' Anorthosite — Unaltered massive. Good polka-dot texture. Dirty-white feldspar-phenos in a pale to medium grey matrix.
470.0' Texture becomes indistinct. Colour pale whitish-grey.

488.5'

488.5' Highly to Medium Altered Zone.
First 3' contains huge, green yellow sericite spots. Further down rock is black chloritized. Fairly massive. Cut by a few, up to 1", calcite stringers at various angles. A few scattered patches of leucoxene.

545.0'

545.0' Anorthosite — Massive. Unaltered. Dirty greenish. Coalescing mafics. Contains a few narrow zones of relatively high alteration.

574.0'

574.0' End of the hole.

D.D.H. T-54

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3701	182.5	185.0	2.5	0.755	0.50		
3702	185.0	189.0	4.0	0.305	1.30		
3703	189.0	191.0	2.0	0.040	0.30		
3704	191.0	192.5	1.5	0.020	0.20		
3706	192.5	195.0	2.5	0.085	0.60		
3707	195.0	200.0	5.0	0.020	0.40		
3708	200.0	205.0	5.0	0.040	0.70		
3709	205.0	210.0	5.0	0.055	0.70		
3710	210.0	215.0	5.0	0.020	0.70		
3711	215.0	220.0	5.0	0.045	1.30		
3712	220.0	225.0	5.0	0.025	0.30		
3713	225.0	230.0	5.0	0.020	0.40		
3714	230.0	234.0	4.0	0.010	0.30		
3715	234.0	235.0	1.0	0.020	0.60		
3716	235.0	239.0	4.0	0.010	0.20		
3717	239.0	243.0	4.0	0.110	0.90		
3718	243.0	245.5	2.5	0.035	0.30		
3719	245.5	247.5	2.0	0.020	5.40		
3720	247.5	253.0	5.5	0.010	0.30		
3721	253.0	254.5	1.5	0.045	0.40		
3722	254.5	256.0	1.5	0.020	0.40		
3723	256.0	260.0	4.0	0.010	0.30		
3724	260.0	263.0	3.0	0.020	0.30	0.465	0.128
3725	263.0	265.0	2.0	0.010	0.10		
3726	265.0	270.0	5.0	0.015	0.60	0.325	0.098
3727	270.0	273.0	3.0	0.020	0.60		
3728	273.0	280.0	7.0	0.010	0.30		
3729	280.0	285.0	5.0	TR.	0.20		
3730	285.0	290.0	5.0	TR.	0.20		
3731	290.0	295.0	5.0	0.010	0.20		
3732	295.0	300.0	5.0	0.010	0.30		
3342	300.0	305.0	5.0	0.010	0.30		
3343	305.0	310.0	5.0	0.010	0.30		
3344	310.0	315.0	5.0	0.010	0.30		
3345	315.0	320.0	5.0	0.090	0.20		
3346	320.0	325.0	5.0	0.010	0.30		
3347	325.0	330.0	5.0	0.020	0.40		
3348	330.0	331.7	1.7	0.010	0.30		
3349	331.7	333.7	2.0	0.085	2.10		
3350	333.7	335.7	2.0	0.020	1.20		
3733	335.7	340.0	4.3	0.040	2.20	0.377	0.084
3734	340.0	345.0	5.0	0.030	1.20	0.165	0.110
3735	345.0	350.0	5.0	0.050	0.80	0.384	0.184
3736	350.0	355.0	5.0	0.025	0.40	0.483	0.128
3737	355.0	357.0	2.0	0.015	2.50	0.020	0.034

37

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3738	357.0	358.6	1.6	0.030	0.40	0.689	0.144
3739	358.6	360.0	1.4	0.050	0.70	0.285	0.110
3740	360.0	363.0	3.0	0.155	0.70	0.862	0.172
3741	363.0	365.0	2.0	0.040	0.90	0.409	0.390
3742	365.0	370.0	5.0	0.030	0.80	0.771	0.122
3743	370.0	375.0	5.0	0.225	0.90	0.883	0.310
3744	375.0	380.0	5.0	0.065	0.80	0.739	0.164
3745	380.0	385.0	5.0	0.195	1.00	0.524	0.194
3746	385.0	390.0	5.0	0.020	0.60	0.151	0.050
3747	390.0	395.0	5.0	0.020	0.90	0.090	0.058
3748	395.0	400.0	5.0	0.030	0.40	0.130	0.066
3749	400.0	405.0	5.0	0.020	1.00	0.190	0.068
3750	405.0	410.0	5.0	0.020	1.20	0.180	0.062
3849	410.0	415.0	5.0	0.020	0.20	0.080	0.052
3850	415.0	420.0	5.0	0.030	1.20	0.204	0.132
3928	420.0	425.0	5.0	0.055	0.90	0.060	0.104
3951	425.0	427.5	2.5	0.035	0.50	0.010	0.078
3952	427.5	431.6	4.1	0.0575	0.20	0.120	0.056
3953	431.6	436.9	5.3	0.0375	2.20	0.316	0.070
3954	436.9	440.5	3.6	0.010	0.70	0.040	0.038
3955	440.5	445.0	4.5	0.015	0.50	NIL	0.036
Agve	182.5	247.5	65.0	0.08	0.88		
	331.7	436.9	105.2	0.055	1.01		
	357.0	385.0	28.0	0.116	0.82	0.696	0.201

D.D.H. T-56

Location : L 14 E 30'N
Azimuth at collar :
at :
at :

Started : February 19th, 1957
Completed : February 22nd, 1957
Logged by : C. Krause.

Dip at collar : 90°
at 361.0' : 89°
at :

Core Size : A. X. T.

Length of hole : 366.0'

0. Casing

78.0'

78.0' Highly Altered Zone — Grey to dark grey, highly chloritic and in places highly carbonitized, coarse black phenos s press the original anorthosite texture. Massive. Cut by numerous irregular calcite stringers. A little pyritr mineral and some scattered light brown leucoxene.
108.0' spots of good chalcopyrite show good shearing. at 45° to cn..
123.8' marked increase in mineralization to about 15% total, pyrrhotite predominants but there are sections of massive chalcopyrite. All texture is obliterated, chlorite is now dark green. Mineral often produces a rough banding, suggesting a shear zone replacement. Banding or shearing is at 45-55° to cn.. Some sections of the zone are high in calcite, producing a brecciated appearance.
1.5' carbonitized zone with some siderite, sulphide banding at 232.0'.
234.0' No more lineation noted, but rock is still schistose at 45-55° to cn...
Coarse black chloritized phenos noted in places, suggesting an original anorthosite. Mineral best in carbonitized and siliceous zones.
2.0' of 60-70% massive chalcopyrite at 263.5'.
278.0' brecciated zone, calcite cement, 30-40% pyrrhotite, chalcopyrite and pyrite in places banded at 55° to cn..
291.5' chlorite schist as before. Contains a number of narrow carbonate and quartz brecciated zones, containing heavy pyrrhotite and chalcopyrite and traces sphalerite.
300.0' Mineral decreases abruptly. Only a trace after 303.0' Also a little brown scattered leucoxene.
322.8' Alteration decreases, pale yellowish sericitized, plagio-pheno appear. Rock is massive.

333.0'

333.0' Anorthosite — Slightly to relatively unaltered. 85-90% very coarse white plagio-phenos. Very coarse tombstone texture, massive, sparse brown leucoxene. No mineral. Contains a few medium to highly altered sections, cut by fine irregular calcite stringers.

366.0'

366.0' End of the hole.

D.D.H. T-56

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3651	107.5	110.0	2.5	0.030	0.40		
3652	110.0	115.0	5.0	0.020	1.60		
3653	115.0	120.0	5.0	0.025	0.40		
3654	120.0	123.5	3.5	0.010	0.60		
3655	123.5	127.0	3.5	0.020	2.30		
3656	127.0	131.0	4.0	0.025	0.90	0.244	0.010
3657	131.0	133.0	2.0	0.015	0.50		
3658	133.0	138.0	5.0	0.020	2.20	0.963	0.104
3659	138.0	143.0	5.0	0.020	2.90		
3660	143.0	148.0	5.0	0.010	0.50		
3661	148.0	151.0	3.0	0.010	2.50	1.010	0.212
3662	151.0	153.0	2.0	0.020	14.70	0.534	0.116
3663	153.0	158.0	5.0	0.010	2.60		
3664	158.0	163.0	5.0	0.020	2.40		0.21
3665	163.0	168.0	5.0	0.020	3.00	0.589	0.218
3666	168.0	173.0	5.0	0.030	2.10	0.520	0.160
3667	173.0	175.0	2.0	0.020	0.50	0.193	0.226
3668	175.0	180.0	5.0	0.020	2.20	0.141	0.062
3669	180.0	185.0	5.0	0.025	4.10	0.446	0.160
3670	185.0	190.0	5.0	0.020	2.80	0.678	0.148
3671	190.0	195.0	5.0	0.010	1.20	0.693	0.110
3672	195.0	200.0	5.0	0.025	3.50	0.229	0.070
3677	200.0	203.0	3.0	0.065	3.70	0.050	0.064
3678	203.0	205.0	2.0	0.010	0.60	NIL	0.026
3679	205.0	210.0	5.0	0.010	1.30	0.221	0.080
3680	210.0	213.0	3.0	0.010	0.70	0.093	0.080
3681	213.0	215.0	2.0	0.035	7.80	0.090	0.076
3682	215.0	219.7	4.7	0.030	2.80	0.080	0.052
3683	219.7	221.7	2.0	0.010	0.50	0.020	0.042
3684	221.7	224.0	2.3	0.055	7.00	0.040	0.082
3685	224.0	229.0	5.0	0.040	1.30		
3686	229.0	234.0	5.0	0.0325	3.10		
3687	234.0	237.0	3.0	0.0425	4.40		
3688	237.0	243.0	6.0	TR.	0.30		
3689	243.0	248.0	5.0	TR.	1.80		
3690	248.0	252.0	4.0	0.020	5.80		
3691	252.0	256.2	4.2	0.0225	6.30		
3692	256.2	262.5	6.3	0.010	0.80		
3693	262.5	266.8	4.3	0.040	13.90		
3694	266.8	270.3	3.5	0.010	1.20		
3695	270.3	274.2	.39	0.010	0.80		
3696	274.2	279.2	5.0	0.055	3.00		
3697	279.2	284.2	5.0	0.040	5.30		
3698	284.2	289.2	5.0	0.090	4.00		
3699	289.2	294.2	5.0	0.030	8.50		
3700	294.2	297.2	3.0	0.020	2.80		
3320	297.2	300.0	2.8	0.0425	6.90		
3321	300.0	304.0	4.0	0.010	1.20		
3322	304.0	307.7	3.7	0.010	0.40		
Agve	107.5	307.7	200.2	0.0234	2.81		
	107.5	200.0	92.5	0.019	2.28		
	107.5	224.0	116.5	0.021	2.39		

DDH. T-58

Location : L18E 84'N

Started : February 19th. 1957.
Completed : February 26th.1957.
Logged by : J. Koene.

Dip at collar : 90°
at 200.0' : 87°
at 400.0' : 87°

Core Size : A. X. T.
Length of the hole : 670.2'

0. Casing

170.4'

170.4' Quartz Zone — Slightly mineralized in spots: chalcopyrite and pyrite and some oxidized iron.
173.6' to 175.0' Lost core.
175.0' Quartz zone again.
178.6' Quartz zone contains much chlorite. Colour grey-black with irregular spots and patches of milky-white quartz.

180.0'

180.0' Highly Altered Zone
First 10' contain lot of quartz in irregular patches. Slightly mineralized in patches at irregular intervals.
189.5' Quartz disappears. Rock becomes very highly altered and sheared at about 50-55° to cn.. Dark black in colour. Slightly mineralised. Mostly pyrite. Mineral often arranged in parallel bands according to shearing.
209.0' Lost core.
213.5' Highly altered rock again as 180.0'. Rock continues medium mineralised. Mostly pyrite.
240.3' Siderite, brecciated zone with much (highly mineralized) fine grained pyrite.
Contains carbonate free, highly chloritized sections without mineral Rock continues slightly to medium mineralized at irregular intervals
301.0' Relatively highly mineralized. Mostly coarse grained pyrite with some pyrrhotite. Rock contains sections of well developed siderite, alternating with zones of coarse grained pyrite.
328.0' Mineralization comes to an end. Only some pyrite in wide spaced patches.
345.0' Rock remains highly carbonitized.
373.3' More chlorite appears. Rock becomes greenish-black. Contains pale, greenish-grey sections which are highly sericitized. A number of mineralised patches at irregular intervals.
404.0' a 6" calcite stringer. Shearing becomes very indistinct.
At about 407.0' Alteration decreases.
410.0' Relatively slight to unaltered rock. Pale grey without a distinct texture. Cut by a number of up to 1" calcite stringers and a few veinlets up to 7". Rock is slightly to medium sericitized. Becoming pale greenish in colour at 431.0'
450.0' End of this green sericite zone. Rock becomes more black due to increasing amount of chlorite. Rock contains a number of small irregular patches of pale brown leucoxene.and a few large irregular

477.8'

477.8' Anorthosite — Relatively unaltered without distinct texture. Massive. Greenish-grey (slightly sericitized). No mineral. A number of faint remnants of huge feldspar-phenos. Rock is slightly to medium carbonitized; especially the feldspar-phenos.
495.3' Colour changes over into blueish-grey.
499.7' A 12" mineralized section. Mostly coarse grained euhedral pyrite and some chalcopyrite., followed by a 2' highly altered zone (chloritized).
503.2' Relatively unaltered anorthosite again. Dirty white fine grained matrix with numerous ¼" spots of black mafics.
517.5' Faint tombstone texture. Contains a few, narrow sections which are relatively high chloritized and bear much carbonate.
558.0' End of section with good tombstone texture. Rock becomes slightly more black, due to numerous very fine black (chloritized) streaks and fissures, surrounding the indistinct feldspar-phenos.
574.5' A 5' section of greenish, medium to highly altered rock, followed by anorthosite with a very indistinct texture. Colour more black

604.7'

604.7' Transition Rock — 50% feldspar. Black, due to chloritization. Massive. Contains a few highly altered patches.
607.0' Spotted with irregular ¼-1" spots. Probably remnants of feldspar-phenos or their alteration. Contains a few narrow zones of relatively unaltered anorthosite.

612.5'

612.5' Anorthosite — Massive. Alternating patches and sections of different colour: pale and medium grey. Spotted with numerous, irregular, dirty white spots which are in general slightly sericitized. Cut by a few calcite stringers running at various angles. Contains a few narrow, sections of relatively high degree of alteration.
624.5' Faint, but well developed tombstone texture for 4 feet.
629.0' Texture indistinct again.
643.5' Huge, greenish (chloritized) feldspar-phenos. Interstices filled with mauve calcite.
646.0' 2" big dirty-white spots in a pale grey matrix.

670.2'

670.2' End of the hole.

D.D.H. T-58

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3640	170.4	176.0	5.6	0.010	0.20		
3641	176.0	180.0	4.0	0.010	0.30		
3642	180.0	185.0	5.0	0.010	0.20		
3643	185.0	187.0	2.0	0.020	0.30		
3644	187.0	190.0	3.0	0.270	0.20		
3645	190.0	195.0	5.0	0.010	0.20		
3646	195.0	200.0	5.0	0.030	0.70		
3647	200.0	203.0	3.0	0.140	0.50		
3648	203.0	208.5	5.5	0.010	0.20		
3649	208.5	213.0	4.5	0.030	0.40		
3650	213.0	218.0	5.0	0.130	0.70		
3328	218.0	224.5	6.5	0.010	0.30		
3329	224.5	229.5	5.0	0.080	0.80		
3330	229.5	235.5	6.0	0.315	2.20		
3331	235.5	238.0	2.5	0.020	0.10		
3332	238.0	243.0	5.0	0.400	0.80		
3333	243.0	248.0	5.0	0.045	0.50		
3334	248.0	253.0	5.0	0.035	0.30		
3335	253.0	258.0	5.0	0.380	0.80		
3336	258.0	262.0	4.0	0.415	1.90		
3337	262.0	263.5	1.5	0.020	0.20		
3338	263.5	265.0	1.5	0.085	3.10		
3339	265.0	270.0	5.0	0.020	2.00		
3340	270.0	273.0	3.0	0.010	0.40		
3341	273.0	275.0	2.0	0.010	0.30		
3780	275.0	280.0	5.0	0.040	0.60		
3781	280.0	281.7	1.7	0.010	0.90		
3782	281.7	284.0	2.3	0.010	0.40		
3783	284.0	285.0	1.0	0.030	0.20		
3784	285.0	290.0	5.0	0.010	0.50	0.235	0.048
3785	290.0	295.0	5.0	0.010	0.70	0.614	0.[illegible]
3786	295.0	300.0	5.0	0.015	0.60	0.183	0.[illegible]
3787	300.0	304.5	4.5	0.055	0.40	0.293	0.[illegible]
3788	304.5	306.5	2.0	0.010	0.30	TR.	0.[illegible]
3789	306.5	308.5	2.0	0.040	2.10	0.030	0.[illegible]
3790	308.5	310.0	1.5	0.010	0.30		
3791	310.0	314.5	4.5	0.020	0.50	0.260	0.[illegible]
3792	314.5	316.5	2.0	0.050	0.80	0.425	0.[illegible]
3793	316.5	321.5	5.0	0.010	0.40	0.826	0.[illegible]
3794	321.5	324.0	2.5	0.045	1.10	0.231	0.[illegible]
3795	324.0	325.8	1.8	0.060	0.80		
3796	325.8	328.0	2.2	0.020	0.40		
3797	328.0	335.0	7.0	0.010	0.20		
3798	335.0	345.0	10.0	TR.	0.30		
3799	345.0	347.1	2.1	0.010	0.30		
3800	347.1	348.2	1.1	0.020	0.90		
3801	348.2	350.0	1.8	0.020	1.40		
3802	350.0	355.0	5.0	0.010	0.50		
3803	355.0	365.0	10.0	0.010	0.30		
3804	365.0	368.5	3.5	0.010	0.40		
3805	368.5	371.0	2.5	0.020	0.60		
3806	371.0	375.0	4.0	0.010	0.30		

D.D.H. T-59

Location : L19E 141'N

Started : February 19th, 1957.
Completed : March 4th, 1957.
Logged by : J. Koene.

Dip at collar : 90°
at 200.0' : 90°
at 528.0' : 83°15'
at :

Core Size : A. X. T.

Length of hole : 528.5'

0. Casing.

148.0'

148.0' Altered Zone

Medium altered. Greenish rock. Medium tohighly carbonitized. Massive, very indistinct texture. Cut by a number of calcite stringers, running at various angles to cn..
163.0' Highly altered and sheared rock. Black chloritized with numerous whitish-grey-green elongated sericitized patches, arranged according to shearing direction.
Sheared at about 40° to cn.. A number of fine brown patches of leucoxene.
168.0' A 12" calcite-quartz stringer (barrem). No mineral. Shearing increases rapidly to very high at about 45-50° to cn..
Contains a few zones in which we find leached mineral, mostly brown oxydized pyrite. And zones of massive, fine grained pyrite.
198.0' to 200.0' lost core.
212.5'-215.0' lost core.

215.0'

215.0' Pyrite Zone

Shearing decreases to high or medium. Rock is grey-greenish, chloritized and sericitized with a number of irregular pyrite patches. Carbonate occurs in spots with disseminated pyrite and specks of chalcopyrite.
265.3' Rock becomes more spotted with elongated lenticulour black chlorite patches, arranged according the angle of shearing. Still several blebs and patches of pyrite.
288.8' Start of zone, consisting of quartz, siderite, altered and carbonitized rock and blebs and patches of pyrite with some chalcopyrite
306.3' Abrupt high mineralization with pyrrhotite, pyrite and chalcopyrite. Also much calcite.

313.6'

313.6' End of mineralization

Except for a couple of mauve patches. Rock still altered. Pale grey. Contains sections of black, highly chloritized material in which grey irregular sericitized patches cause a spotty appearance. A few scattered patches of brown leucoxene..Contains also a few narrow zones spotted with yellow-green sericite patches. Cut by a number of irregular calcite stringers.
390.0' Alteration seems to decrease very slightly.

414.0'

414.0' Anorthosite — Unaltered, massive. Faint, indistinct texture. Pale whitish-grey. Contains a few narrow sections which are relatively high chloritized.
At about 439.0' Rather good tombstone texture .Also some sections which look granitized.or silicified.
461.1' Altered, highly chloritized zone. Contains a mineralized quartz tremolite stringer (chalcopyrite) and a few stringers filled with tremolite.
468.3' Unaltered anorthosite again as 414.0' Contains a few narrow zones and patches of altered rock.
484.3' a 7" calcite-quartz stringer in a 18" altered section.

507.3'

507.3' Transition Rock — More dark mineral and less feldspar as the foregoing anorthosite. Texture indistinct. No mineral.

528.5'

528.5' End of the hole.

D.D.H. T-59

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4075	182.5	185.0	2.5	0.010	0.40		
4076	185.0	187.5	2.5	0.090	0.70		
4077	187.5	192.0	4.5	0.010	0.20		
4078	192.0	200.0	8.0	0.010	0.50		
4079	200.0	205.0	5.0	0.010	0.20		
4080	205.0	210.0	5.0	0.025	1.20		
4081	210.0	215.0	5.0	0.010	0.60		
4082	215.0	220.0	5.0	0.020	0.30		
4083	220.0	225.0	5.0	0.020	0.30		
4084	225.0	230.0	5.0	0.010	0.90		
4085	230.0	235.0	5.0	0.0225	0.40		
4086	235.0	240.0	5.0	TR.	0.10		
4087	240.0	245.0	5.0	0.010	0.40		
4088	245.0	250.0	5.0	0.0275	0.40		
4151	250.0	255.0	5.0	0.010	0.50		
4152	255.0	260.0	5.0	0.0125	0.20		
4153	260.0	265.0	5.0	0.020	0.70		
4154	265.0	270.0	5.0	TR.	0.20		
4155	270.0	275.0	5.0	0.010	0.20		
4156	275.0	280.0	5.0	0.0125	0.30		
4157	280.0	285.0	5.0	0.015	0.30		
4158	285.0	290.0	5.0	0.010	0.20		
4159	290.0	291.5	1.5	0.010	0.10		
4160	291.5	295.0	3.5	0.135	1.10		
4161	295.0	297.0	2.0	0.195	0.40		
4162	297.0	298.5	1.5	0.010	0.10		
4163	298.5	300.0	1.5	0.030	0.20		
4089	300.0	302.0	2.0	0.0225	0.40	0.163	0.106
4090	302.0	305.0	3.0	0.055	0.40	0.080	0.092
4091	305.0	310.0	5.0	0.0425	0.50	0.179	0.150
4149	461.0	465.0	4.0	0.020	TR.	TR.	0.040
4150	465.0	467.0	2.0	0.030	1.00	NIL	0.172
4092	510.0	513.8	3.8	0.050	1.20	0.120	0.070
4093	513.8	520.0	6.2	0.010	0.20	0.080	0.034
Agve	182.5	310.0	127.5	0.023	0.43		

D.D.H. T-60

Location : L20E 285'N

Started : February 25th. 1957.
Completed : March 5th. 1957.
Logged by : G. Allard.
J. Keene.

Dip at collar: 90°
at 200.0' : 90°
at 400.0' : 87°30'
at 500.0' : 87°30'

Core Size : A. X. T.

Length of hole: 552.0'

0. Casing

130.0'

130.0' Anorthosite Transition - Anorthosite

Massive. Light coloured, slight alteration all over. Few calcite veinlets here and there. Original tombstone texture, partly obliterated by the diffuse alteration.

165.0'

165.0' Zone of Highly Altered Rock

Original unknown. Highly chloritized. Dark green, cut by a great number of calcite veinlets. Few large crystals of mauve carbonate or leucoxene.? Fine grained pyrite, disseminated. Here and there blebs of chalcopyrite, but not ore.

Strong shearing starts around 203.0'.

209.0'

209.0' Ore Zone

Rock is highly chloritized. Original unknown, irregular blebs chalcopyrite here and there. Good shearing very well marked at 60° to cn.. By 209.0' shearing is marked by alternate lenses of pyrite along the schistosity planes.
Silicification for 1 foot at 218.5'.
219.0' to 225.0' Shearing is very marked and sulphides (pyrite 60, pyrrhotite 30, chalcopyrite 10), marked up about 70% of the rock and is accompanied by calcite all over. Shearing at 45-55° to cn..
Same description for 225.0' to 236.5', from 236.5' patchy high schistosity and locally replaced sulphides (predominant chalcopyrite and pyrrhotite), still highly chloritized, black green with light green streaks and patches of sericite (?) in schistosity direction. Numerous carbonate patches and veinlets. From 262.0' medium greyish-green, probably because of higher sericitization. At a few places some chalcopyrite replacement.

275.0'

275.0' Zone of Highly Altered Rock

From 275.0' again dark green and only traces of sulphides.

292.2'

292.2' Quartz - Calcite Vein

Milky-white rock of 4% quartz and rest calcite.

295.5'

295.5' Highly Altered Zone — Highly altered (chlorite-sericite), coarse mottling occasionally visible, quartz-calcite veinlets. Medium greyish-green, patchy medium schistocity at 30-35° to cn.. Traces sulphides.
At 390.0' decreasing alteration down to medium to light alteration, medium mottled, medium greyish-green. Feldspars locally scattered, patchy disseminated chalcopyrite (less than 1%). Quartz-calcite veinlets, fairly massive.

357.0'

357.0' Anorthosite — Relatively unaltered. Massive. Starts with a coarse polka-dot texture. Interstices filled with mauve calcite.
375.0' Indistinct texture. Pale grey to pale greenish-grey. Contains a few relatively higher altered sections. Fairly massive.
396.5' A 4" barren calcite-quartz stringers at 20° to cn..
No mineral. Tombstone texture, at 425.0' to 430.0'. Contains several narrow zones in which are highly altered. (chloritized with irregular patches of sericite).
438.5' Mineralized calcite-quartz vein to 443.0'. Sharp contact at about 70° to cn..
540.0' Rock becomes more dark in colour. Less feldspar and more mafics.

552.0'

552.0' End of the hole.

D.D.H. T-60

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4101	170.0	175.0	5.0	TR.	0.30		
4102	175.0	180.0	5.0	TR.	0.10		
4103	180.0	185.0	5.0	TR.	0.10		
4104	185.0	190.0	5.0	TR.	0.10		
4105	190.0	195.0	5.0	0.010	0.30		
4106	195.0	200.0	5.0	TR.	0.10		
4107	200.0	205.0	5.0	TR.	0.10		
4108	205.0	209.0	4.0	0.010	0.10		
4109	209.0	215.0	6.0	0.025	1.20	0.257	0.062
4110	215.0	220.0	5.0	TR.	1.00	0.070	0.084
4111	220.0	225.0	5.0	0.0175	0.40	0.549	0.180
3999	225.0	230.0	5.0	0.020	0.60	0.259	0.130
4000	230.0	235.0	5.0	0.020	0.50	0.300	0.124
3938	235.0	240.0	5.0	0.040	0.40		
3939	240.0	245.0	5.0	TR.	0.30		
3940	245.0	247.4	2.4	0.010	0.50		
3941	247.4	250.0	2.6	0.010	0.60		
3942	250.0	255.0	5.0	0.010	0.20		
3943	255.0	260.0	5.0	0.010	0.10		
3944	260.0	265.0	5.0	0.010	0.30		
3945	265.0	270.0	5.0	0.010	0.20		
3946	270.0	275.0	5.0	0.020	0.20		
3947	338.2	339.0	0.8	0.040	5.30		
4333	438.0	442.0	4.0	0.370	0.20		
Agve	209.0	220.0	11.0	0.0136	1.11		
	209.0	235.0	26.0	0.017	0.76		

D.D.H. T-63

Location : L16E 30'S

Dip at collar : 90°
at 250.0' : 87°
at 500.0' : 87°
at 700.0' : 86°15'

Core Size : A. X. T.

Length of hole : 707.8'

Started : February 20th, 1957.
Completed : March 5th, 1957.
Logged by : G. Allard and J. Koens.

C. Casing

148.0'

148.0' Highly Altered Zone — Chloritized rock. Dark green, original unknown, medium grained. Medium grained leucoxene grains.

159.0'

159.0' Ore Zone — Chloritized rock. Original unknown. Sheared at 60° to cn.. Pyrite along shearing planes. Carbonitized all through.
162.5' Quartz and siderite (calcite).
162.5' to 170.0' Quartz, blebs of pyrite and chalcopyrite.
175.0' to 178.5' Carbonitized zone.
178.5' to 183.0' Massive pyrite.
195.0' to 200.0' Pyrite, calcite and disseminated chalcopyrite. Contains also chloritoid up to 203.5'.
200.0' to 212.0' Pyritized, chloritized zone. Few blebs chalcopyrite.
212.0' to 238.0' Siliceous and highly carbonitized section with pyrite and fair amount of chalcopyrite.
238.0' to 250.5' Very coarse pyrite. Massive.
250.5' to 259.0' Pyrrhotite and pyrite. Massive. Lots of chloritoid.
259.0' to 262.5' Massive pyrite, some chalcopyrite.
262.5' to 300.0' Chloritized zone. Pyrrhotite, quartz and chalcopyrite and chalcopyrite splashes.
300.0' to 400.0' All low grade, mineralized, but will not make ore. All dark green, very highly chloritized zone. No calcite veinlets. Blotches and veinlets here and there of pyrite and pyrrhotite. A few of chalcopyrite and of quartz. More massive sulphides from 327.0' to 337.0'. Mostly pyrrhotite and pyrite.
Some brecciated looking phases, but in general massive.
409.0' Medium grade ore. Mostly pyrrhotite and pyrite.
445.5' Rapid decrease of mineralization. Rock still mineralized, but not ore.
At about 462.0' A 3' well mineralized zone: pyrite and sphalerite.
475.3' Zone of calcite-quartz for 5', followed by course sized siderite for about 5.5'.
486.5' High grade ore: pyrite and pyrrhotite. Also some blebs of chalcopyrite. Going over into almost massive pyrrhotite at about 489.0'.
495.0' 6.5' Slightly mineralized, highly altered rock.
501.3' Rapid increase of mineralization. Mostly pyrite.

504.0' Medium mineralized, quartz-calcite brecciated zone. Pyrrhotite chalcopyrite and pyrite, going over into almost massive pyrrhotite at 513.2'.
513.2' Massive pyrrhotite for 2'.
515.0' Rock remains slightly to medium mineralized.
519.2' Abrupt end of mineralization. Only a few patches of pyrrhotite and chalcopyrite, occur in next 5'.
Rock remains altered, but alternating is decreasing. Large, irregular spots of grrenish-yellow sericite appear in a dark-greyish-black, chloritized matrix. A few patches of sulphides, mostly along calcite stringers, cutting core at various angles.

555.3'

555.3' Anorthosite

Relatively unaltered, massive. First 2' contains much chlorite and sericite, giving rock a dark colour, thereafter rock is dirty-white with about 60% feldspar. Texture varies between indistinct and faint tombstone texture. Contains also a few narrow, relatively highly altered sections, which are dark-black chloritized. No mineral.

611.7'

611.7' Highly Altered Zone

Start with brecciated zone. Black altered rock, cut by numerous irregular white stringers and patches, partly not carbonitized.
621.4' Calcite-quartz stringer with a few patches of chloritoid rock at 70° to cn..
632.5' End of calcite-quartz vein. Highly altered rock again.

647.0'

647.0' Anorthosite

Massive to very indistinctly sheared. Colour varies between greyish-black (probably zoisitized) and pale grey.

707.8'

707.8' End of the hole.

D.D.H. T-63

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4112	150.0	155.0	5.0	0.035	0.50	TR.	0.034
4113	155.0	159.0	4.0	0.010	0.20	NIL	NIL
4114	159.0	163.0	4.0	0.010	0.70	0.296	0.160
4115	163.0	170.0	7.0	0.025	1.40	0.050	0.062
4116	170.0	175.0	5.0	0.010	0.10	0.020	0.066
4117	175.0	179.0	4.0	0.030	0.20	TR.	0.082
4118	179.0	183.0	4.0	0.035	0.70	TR.	0.094
4119	183.0	188.0	5.0	0.010	0.10	0.010	0.060
4120	188.0	195.0	7.0	0.010	0.20	NIL	0.038
4121	195.0	200.0	5.0	0.015	0.40	NIL	0.022
4129	200.0	205.0	5.0	0.010	0.50	NIL	0.036
4130	205.0	210.0	5.0	0.020	0.70	TR.	0.040
4131	210.0	214.0	4.0	0.0125	0.90	NIL	TR.
4132	214.0	220.0	6.0	0.060	1.20	0.080	0.162
4133	220.0	225.0	5.0	0.055	1.40	0.070	0.232
4134	225.0	230.0	5.0	0.075	1.00	TR.	0.696
4135	230.0	235.0	5.0	0.0875	0.70	0.040	0.158
4136	235.0	238.0	3.0	0.045	2.10	TR.	0.368
4137	238.0	245.0	7.0	0.200	1.50	0.090	0.142
4138	245.0	250.5	5.5	0.0575	0.70	0.185	0.058
4139	250.5	255.0	4.5	0.1425	1.00	0.175	0.142
4140	255.0	260.0	5.0	0.050	1.20	0.269	0.082
4141	260.0	262.5	2.5	0.380	2.30	0.203	0.212
4142	262.5	270.0	7.5	0.035	0.30	0.100	0.078
4143	270.0	275.0	5.0	0.030	0.20	0.050	0.064
4144	275.0	280.0	5.0	0.010	0.40	0.218	0.058
4145	280.0	285.0	5.0	0.0175	0.10	0.244	0.070
4146	285.0	290.0	5.0	0.0925	0.20	0.525	0.102
4147	290.0	295.0	5.0	0.010	0.20	0.219	TR.
4148	295.0	300.0	5.0	0.010	0.10	0.151	0.100
4009	300.0	305.0	5.0	0.010	0.30		
4010	305.0	310.0	5.0	0.020	0.10		
4011	310.0	315.0	5.0	0.010	0.10		
4012	315.0	320.0	5.0	0.025	0.10		
4013	320.0	325.0	5.0	0.010	0.60	0.175	0.036
4014	325.0	330.0	5.0	0.010	0.20	0.383	0.064
4015	330.0	335.0	5.0	0.020	0.40	0.365	0.198
4016	335.0	340.0	5.0	0.010	0.20	0.287	0.168
4017	340.0	345.0	5.0	0.010	0.10	TR.	TR.
4018	345.0	350.0	5.0	0.060	0.40	0.050	0.036
4019	350.0	355.0	5.0	0.020	0.30	0.120	0.036
4020	355.0	360.0	5.0	0.030	0.20		
4021	360.0	365.0	5.0	0.010	TR.		
4022	365.0	370.0	5.0	0.020	0.10		
4023	370.0	375.0	5.0	TR.	0.10		

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zinck %
4024	375.0	380.0	5.0	0.030	0.10			
4025	380.0	385.0	5.0	0.020	0.10			
4026	385.0	390.0	5.0	0.010	0.20			
4027	390.0	395.0	5.0	TR.	0.10			
4028	395.0	400.0	5.0	0.010	0.10			
4045	400.0	405.0	5.0	0.010	0.20	0.140	0.046	TR.
4046	405.0	410.0	5.0	0.020	0.10	0.256	0.050	
4047	410.0	415.0	5.0	0.030	0.20	0.335	0.094	
4048	415.0	420.0	5.0	0.030	0.10	0.474	0.044	
4049	420.0	425.0	5.0	0.020	0.10	0.337	0.050	TR.
4050	425.0	430.0	5.0	0.030	0.30	0.293	0.130	TR.
3974	430.0	435.0	5.0	0.010	0.40	0.010	0.078	
3975	435.0	440.0	5.0	0.010	0.30	0.437	0.116	1.0
3976	440.0	445.0	5.0	0.010	0.40	0.274	0.068	
3977	445.0	450.0	5.0	TR.	0.60	0.050	0.036	
3978	450.0	455.0	5.0	0.010	0.20	TR.	TR.	
3979	455.0	460.0	5.0	0.010	0.20	0.040	TR.	
3980	460.0	465.0	5.0	TR.	TR.	0.045	TR.	TR.
3981	465.0	470.0	5.0	0.015	0.10	0.030	TR.	
3982	470.0	475.0	5.0	0.010	0.30	0.020	TR.	
3983	475.0	480.0	5.0	0.030	0.10			
3984	480.0	485.0	5.0	0.025	0.20			
3985	485.0	486.5	1.5	0.010	0.10	NIL	0.052	
3986	486.5	491.5	5.0	0.365	2.00	0.635	0.346	
3987	491.5	495.0	3.5	0.040	1.20	0.320	0.150	
3988	495.0	500.0	5.0	0.030	0.20	0.040	TR.	
3989	500.0	505.0	5.0	0.020	0.70	0.170	0.058	
3990	505.0	510.0	5.0	0.055	0.60	0.150	0.058	
3991	510.0	514.7	4.7	0.020	2.00	0.500	0.058	
3992	514.7	518.4	3.7	0.020	3.30	0.316	TR.	
3993	518.4	525.0	6.6	0.020	0.30	0.030	TR.	
4404	621.5	625.0	3.5	0.010	0.30			
4405	625.0	630.0	5.0	TR.	TR.			
4406	630.0	632.5	2.5	TR.	TR.			
Agve	150.0	262.5	112.5	0.056	0.85			
	214.0	262.5	48.5	0.106	1.23			
	486.5	518.4	31.9	0.083	1.36			

D.D.H. T-67

Location : L13E 60'N

Started : February 23rd'57
Completed : February 27th'57
Logged by : J. Koene.
and G. Allard

Dip at collar : 90°
at 75.0' : 90°
at 275.0' : 89°
at 460.0' : 89°

Core Size : A. X. T.

Length of hole: 460.0'

0. Casing

47.0'

47.0' Altered, Mineralized Sheared Zone

Pale grey to medium grey sericitized. Contains numerous white carbonate patches. Mineral occurs in patches at irregular intervals (pyrite and chalcopyrite). Indistinct sheared at about 60° to cn..
62.6' Highly mineralized section (8% mineral), pyrite and chalcopyrite.
75.9' Abrupt decrease of mineralization. Rock still highly altered. Mineral occurs in patches at irregular intervals (pyrite and chalcopyrite).
132.6' Increase of mineralization (chalcopyrite and pyrrhotite). Rock becomes highly carbonitized with a brecciated appearance, pyrrhotite is dominant.
138.0' Highly mineralized sections alternate with highly altered fine grained, chloritized (chloritoid ? amphibole ?) dark green rock.
157.6' Highly mineralized section, mostly pyrrhotite. 50% mineral.
172.0' Decrease of mineralization. Again dark green, highly altered (chloritized), fine grained rock.
175.0' to 185.0' High grade ore.
Chlorite, pyrrhotite, chalcopyrite and calcite.
185.0' to 195.0' Chlorite, chalcopyrite, lower grade ore.
195.0' to 200.0' contorted quartz-pyrite replacement. Some siderite.
200.0' to 202.0' Calcite, pyrite and some sphalerite veinlets.

202.0'

202.0' Altered Zone

Highly chloritized and sericitized rock. Original looks like anorthosite rock. Cut by a great number of calcite veinlets.

230.0'

230.0' Anorthosite

Massive, white to grey, very little altered.
258.5' Highly altered, black chloritized section. Cut by a couple of calcite stringers at a small angle to cn..
266.3' Slightly mineralized quartz-calcite stringer, chalcopyrite and pyrrhotite.
266.5' Relatively unaltered anorthosite. Pale yellowish-greenish-grey with numerous small subhedral, dirty-white-yellow (epidotized) feldspar-phenos and a few large (1") euhedral pheno-crystals. Interstices filled with green-black chloritized mafics. Contains sections with polka-dot texture and mauve calcite. Also a number of narrow sections without a distinct texture and a more medium grey colour.
348.0' Good tombstone texture for the next 25 feet.
373.0' Texture becomes indistinct. Rock becomes slightly altered.
377.3' Highly altered section to 382.0'. Slightly sheared at about 40° to cn.. Cut by anumber of calcite stringers.
382.0' Relatively unaltered anorthosite with indistinct texture. Greenish-grey.

389.8'

389.8' Medium to highly altered, black chloritized rock. Slightly sheared at about 40° to cn.. Cut by a number of calcite stringers with sericite and chlorite at their borders. A few scattered patches of brown leucoxene.
At about 396.0' Indistinct texture reminding of an original anorthosite or transition rock. A few blebs of chalcopyrite.
417.7' Rapid decrease of alteration.

420.8'

420.8' Anorthosite

Relatively unaltered as 230.0' With irregular, large spots of chloritized mafics and a very indistinct texture.
442.0' Faint visible coarse tombstone texture.

445.0'

445.0' Transition Rock ?

Unalterd, massive. Colour blue-black , probably due to feldspar-alteration into zoisite and clinozoisite.
A few scattered patches of chalcopyrite.

460.0'

460.0' End of the hole/

D.D.H. T-67

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3751	50.0	55.0	5.0	0.010	0.50		
3752	55.0	60.0	5.0	0.010	0.60		
3753	60.0	65.0	5.0	0.010	0.20		
3754	65.0	67.5	2.5	0.010	0.70		
3755	67.5	70.8	3.3	0.020	14.80	TR.	0.236
3756	70.8	75.0	4.2	0.010	0.30		
3757	75.0	80.0	5.0	0.030	0.60		
3758	80.0	83.5	3.5	0.010	0.30		
3759	83.5	85.0	1.5	0.055	5.30		
3760	85.0	90.0	5.0	0.040	1.20		
3761	90.0	95.0	5.0	0.055	1.60		
3762	95.0	100.0	5.0	0.010	0.90		
3763	100.0	110.0	10.0	0.025	2.30		
3764	110.0	111.0	1.0	0.020	2.50		
3765	111.0	113.5	2.5	0.015	0.80		
3766	113.5	115.0	1.5	0.020	3.00		
3767	115.0	118.2	3.2	0.015	3.50		
3768	118.2	130.0	11.8	0.010	0.40		
3769	130.0	132.5	2.5	0.010	0.50		
3770	132.5	136.5	4.0	0.030	9.50	0.130	0.108
3771	136.5	140.0	3.5	0.020	2.70	0.425	0.110
3772	140.0	145.0	5.0	0.030	3.70	0.524	0.124
3773	145.0	147.0	2.0	0.030	9.10	0.585	0.190
3774	147.0	152.6	5.6	0.050	9.60	0.100	0.048
3775	152.6	156.6	4.0	0.020	0.90	TR.	0.034
3776	156.6	160.0	3.4	0.020	5.50	0.389	0.144
3777	160.0	165.0	5.0	0.035	6.50	0.355	0.210
3778	165.0	170.0	5.0	0.020	1.60	1.190	0.320
3779	170.0	175.0	5.0	0.010	2.40	0.703	0.192
3867	175.0	180.0	5.0	0.085	5.50	0.469	0.118
3868	180.0	185.0	5.0	0.030	4.40	0.485	0.162
3869	185.0	190.0	5.0	0.060	3.60	0.222	0.096
3870	190.0	195.0	5.0	0.095	2.10	TR.	0.062
3871	195.0	200.0	5.0	0.130	0.60	0.133	0.122
3872	200.0	205.0	5.0	0.020	0.50	TR.	0.028
Agve	50.0	205.0	155.0	0.031	2.80		
	67.5	195.0	127.5	0.031	3.30		
	132.5	195.0	62.5	0.040	4.65		
	136.5	185.0	48.5	0.033	4.62	0.478	0.150

D.D.H. T-69

Location : L14E 117'N

Started : February 23rd, 1957.
Completed : February 25th, 1957.
Logged by : G. Allard.

Dip at collar : 90°
at 125.0' : 88°15'
at 245.0' : 89°

Core Size : A. X. T.

Length of hole: 247.0'

0. Casing

81.0'

81.0' Ore Zone — Chalcopyrite and quartz, some pyrrhotite. White a bit of quartz all way to 112.0'.

High grade section from 81.0' to 112.0'.

Lower grade 1-2% from 112.0' to 140.0'. This lower grade is made up of dark chlorite with disseminated blebs and veinlets of chalcopyrite and minor calcite.
In general pyrrhotite content is low.

150.0' 15" pyrite and quartz.

155.0'

155.0' Altered Zone — Highly chloritized rock, cut by a number of calcite veinlets all through.
166.0' to 172.0' Sericitized anorthosite, massive. Easily recognized as an anorthosite.
185.0' to 199.0' idem to 166.0' to 172.0' .
213.0' to 227.0' Chloritized zone as in general within that zone except that the silicification is quite heavy. Many quartz veinlets instead of calcite veinlets as usual.

237.0'

237.0' Anorthosite — Massive, coarse tombstone type texture, lots of veinlets of albite. Slightly sericitized at first and then decreasing amount of alteration.

247.0'

247.0' End of the hole.

D.D.H. T- 69

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Ni. %	Co. %
3851	81.0	85.0	4.0	0.025	6.50		
3852	85.0	90.0	5.0	0.040	5.60		
3853	90.0	95.0	5.0	0.170	3.10		
3854	95.0	100.0	5.0	0.150	6.20		
3855	100.0	105.0	5.0	0.245	9.10		
3856	105.0	110.0	5.0	0.095	7.80	0.090	0.142
3857	110.0	115.0	5.0	0.040	5.00	0.243	0.054
3858	115.0	120.0	5.0	0.180	2.70	0.080	0.054
3859	120.0	125.0	5.0	0.045	4.40	0.169	0.054
3860	125.0	130.0	5.0	0.060	2.20		
3861	130.0	135.0	5.0	0.020	1.00		
3862	135.0	140.0	5.0	0.020	1.30		
3863	140.0	145.0	5.0	0.020	0.30		
3864	145.0	150.0	5.0	0.010	0.10		
3865	150.0	155.0	5.0	0.040	0.10		
3866	155.0	160.0	5.0	TR.	0.10		
3867	175.0	180.0	5.0	0.085	5.50	0.469	0.118
3868	180.0	185.0	5.0	0.030	4.40	0.485	0.162
3869	185.0	190.0	5.0	0.060	3.60	0.222	0.096
Agve	81.0	140.0	59.0	0.094	4.54		
	175.0	190.0	15.0	0.058	4.50		

D.D.H. T-70

Location : L15E 87'N

Started : February 23rd. 195[illegible]
Completed : February 27th. 1957.
Logged by : J. Koene.

Dip at collar : 90°
at 100.0' : 89°
at 225.0' : 89°

Core Size : A. X. T.

Length of hole : 309.0'

0. Casing

92.0'

92.0' Ore Zone

92.0' to 97.0' High grade ore. Chalcopyrite and chlorite.
97.0' to 150.0' Lower grade ore zone. Chloritized and disseminated splashes chalcopyrite, all through.
166.3' Increase of mineral to low grade ore. Chalcopyrite pyrrhotite
171.0' High grade ore with much quartz blebs.
198.0' 3 feet waste.
201.0' High grade ore. Rock becomes higher carbonitized and pyrite appears.
210.5' End of ore.

210.0'

210.0' Altered Rock

Bright yellow-green rock, due to sericite. Alteration decreases rapidly.
223.0' Huge, sericitized, irregular shaped spots reminds of original anorthosite. Rock remains slightly to medium altered. Fairly massive. Medium greenish-grey. Cut by a number of calcite stringers at various angles. No mineral.
Contains narrow sections and patches of slightly altered anorthosite. A few scattered patches of brown leucoxene. Also a few zones of relatively medium to high alteration, but rock is in general slightly to medium altered.
Above described rock-type lasts until the end of the hole.

309.0'

309.0' End of the hole.

D.D.H. T-70

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
3873	92.0	95.0	3.0	0.075	5.20	0.059	0.066
3874	95.0	100.0	5.0	0.030	2.10	TR.	0.042
3875	100.0	105.0	5.0	0.010	1.70		
3876	105.0	110.0	5.0	0.010	0.80		
3877	110.0	115.0	5.0	0.020	1.60		
3878	115.0	120.0	5.0	0.010	2.00		
3879	120.0	125.0	5.0	0.010	0.90		
3880	125.0	103.0	5.0	0.0225	1.30		
3881	130.0	135.0	5.0	0.010	0.70		
3882	135.0	140.0	5.0	0.010	0.50		
3883	140.0	145.0	5.0	0.010	0.40		
3884	145.0	150.0	5.0	0.010	0.80		
3885	150.0	155.0	5.0	0.020	1.00	NIL	TR.
3886	155.0	165.0	10.0	0.065	0.70	TR.	0.034
3887	165.0	171.0	6.0	0.030	1.90	0.070	TR.
3888	171.0	175.0	4.0	0.240	2.70	0.229	0.140
3889	175.0	180.0	5.0	0.100	7.80	0.319	0.100
3890	180.0	185.0	5.0	0.045	12.70	0.100	0.130
3891	185.0	190.0	5.0	0.030	15.10	0.050	0.136
3892	190.0	195.0	5.0	0.060	9.30	0.442	0.178
3893	195.0	198.0	3.0	0.160	2.60	0.294	0.164
3894	198.0	200.0	2.0	0.165	0.90	0.050	0.200
3895	200.0	205.0	5.0	0.095	3.70	0.158	0.194
3896	205.0	210.5	5.5	0.055	3.20	0.198	0.294
Agve	92.0	130.0	38.0	0.021	1.78		
	175.0	195.0	20.0	0.033	11.20		
	92.0	210.5	118.5	0.050	3.24		

D.D.H. F-71

Location : L12E 3'N
Azimuth :
Dip at collar : 90°
at 50.0' : 89°
at 1500' : 89°
at 272.0' : 89°
Core Size : A. X. T.

Started : February 26th. 1957.
Completed : February 27th. 1957.
Logged by : J. Koene.

Length of hole: 272.5'

0. Casing

35.0'

35.0' Altered Zone — Highly altered, slight to medium sheared at a variable angle to cn.. Pale to medium grey. Cut by a number of up to 1" calcite stringers at various angles. Contains a number of calcite patches and a few blebs of pyrite and chalcopyrite.
Also some sections of slightly altered anorthosite in which the texture is still faintly present. A few scattered patches of brown leucoxene.
89.5' Mineralized section (pyrite and quartz).
92.0' Altered anorthosite again. Contains narrow sections of unaltered to slightly altered anorthosite. Cut by a couple of 1" calcite stringers at various angles.
133.2' to 134.2 Mineralized section, pyrite and chalcopyrite.
136.7' to 139.0' Mineralized section, pyrite and chalcopyrite.
Rock contains a number of slightly mineralized patches in the more altered parts.
180.0' 5' zone in which yellow-green sericite spots indicate the place of original phenos. Also a number of very small, scattered patches of brown leucoxene.
200.0' Rock becomes more green in colour due to chlorite or fine grained amphibole. Relatively more mineralized patches but no real ore.

219.8'

219.8' High Grade Ore Zone — Abrupt start accompanied by relatively high amount of carbonate. About 40-50% mineral (chalcopyrite and pyrrhotite).
224.7' End of high grade section and start of about 4.5' of waste.
228.5' High grade ore (chalcopyrite and pyrrhotite).
232.0' 2' waste.
234.0' High to medium grade ore.
237.0' End of mineralization. Rock still highly altered. Pale grey.
251.0' Alteration decreases rapidly.

260.0'

260.0' Anorthosite — Relatively unaltered, massive. Pale grey to dirty white in colour. Indistinct texture. Interstices between the faint visible phenos filled with mauve calcite and blackish-green chloritized mafics.

272.5'

272.5' End of the hole.

D.D.H. T-71

Samples and assays taken

Sample number	Section of hole From	To	Sample number	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
3929	89.5	92.0	2.5	0.315	0.70	0.220	0.184
4183	133.0	134.3	1.3	0.050	2.10	TR.	0.116
4184	134.3	136.5	2.2	0.010	TR.		
4185	136.5	139.0	2.5	0.040	6.00	TR.	0.054
4186	139.0	141.5	2.5	0.015	0.20	NIL	0.046
4187	167.0	170.0	3.0	0.015	0.90	TRL	0.054
4188	170.0	175.0	5.0	0.010	0.70	NIL	TR.
4189	205.0	210.0	5.0	0.020	1.00		
4190	210.0	212.5	2.5	0.020	0.60		
4191	212.5	217.5	5.0	0.020	0.10		
4192	217.5	220.0	2.5	0.015	0.70	0.050	0.038
4193	220.0	224.5	4.5	0.055	7.90	0.269	0.128
4194	224.5	228.5	4.0	0.030	0.60	TR.	TR.
4195	228.5	232.0	3.5	0.010	8.20	0.478	0.100
4196	232.0	237.0	5.0	0.030	2.90	0.326	0.060
4197							
Agve	133.0	139.0	6.0	0.031	2.96		
	220.0	237.0	17.0	0.0325	4.77		

D.D.H. T-72

Location : L11E 54'S
Azimuth :
Dip at collar : 90°
at 150.0' : 81° 30'
at 270.0' : 81° 30'

Started : February 26th, 1957.
Completed : February 27th, 1957.
Logged by : J. Keene.

Core Size : A. X. T.

Length of hole: 272.8'

0. Casing

27.0'

27.0' Altered Zone — Slightly to relatively unaltered anorthosite or transition rock. Massive to slightly sheared to an indistinct angle.
Pale to medium grey with a number of yellow-green sericitized spots, indicating original feldspar-phenos. Cut by numerous fine calcite stringers and stringlets. A few blebs of chalcopyrite and pyrite. A number of calcite patches and scattered spots of brown leucoxene.
Contains sections of slightly altered to unaltered anorthosite which are less grey in colour as the more altered parts. Also a couple of relatively higher altered zones. Rock is fairly massive to very indistinct sheared.
At about 175.0' Relatively more mineralized patches but not enough to make ore.
200.0' Rock is highly altered. Black chloritized. Increase of carbonitized spots and stringers.

214.7'

214.7' High Grade Ore — 60-70% (chalcopyrite and pyrrhotite) mineral in highly carbonitized rock. Sharp start and end at sharp contacts at 50° to cn..

222.0'

222.0' Highly Altered Rock again as 200.0'. Still mineralized in spots, but no visible ore.
244.0' Alteration seems to decrease to medium or slight.

256.7'

256.7' Anorthosite — Relatively unaltered. Massive. Pale, whitish-grey. Indistinct texture
A few narrow zones with an indistinct tombstone-texture.

272.8'

272.8' End of the hole.

D.D.H. T-72

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4001	61.5	63.5	2.0	0.020	0.90		
4002	63.5	67.5	4.0	0.010	0.40		
4003	67.5	70.0	2.5	0.010	1.30		
4004	97.0	99.0	2.0	0.010	0.60		
4005	99.0	102.0	3.0	TR.	0.10		
4006	102.0	103.8	1.8	0.010	5.00		
4007	103.8	110.2	6.4	TR.	0.10		
4008	110.2	111.2	1.0	0.010	2.50		
4164	175.0	180.0	5.0	0.025	1.40		
4165	180.0	185.0	5.0	0.010	0.30		
4166	185.0	190.0	5.0	0.025	1.20		
4167	190.0	195.0	5.0	TR.	0.10		
4168	195.0	200.0	5.0	TR.	0.10		
4169	200.0	205.0	5.0	0.015	0.60		
4170	205.0	210.0	5.0	TR.	0.10		
4171	210.0	214.5	4.5	0.020	1.00		
4172	214.5	217.5	3.0	0.185	6.30	0.379	0.174
4173	217.5	220.0	2.5	0.155	12.40	0.185	0.074
4174	220.0	222.0	2.0	0.125	2.50	0.426	0.128
4175	222.0	224.0	2.0	0.020	0.20		
4176	224.0	225.0	1.0	0.010	0.40	0.020	0.042
4177	225.0	226.0	1.0	0.010	0.50		
4178	226.0	228.0	2.0	0.205	0.70	0.261	0.232
4179	228.0	232.5	4.5	0.015	0.20		
4180	232.5	235.0	2.5	0.020	1.40		
4181	235.0	240.0	5.0	0.010	0.50		
4182	240.0	245.0	5.0	0.010	0.20		

D.D.H. T-74

Location : L19E 229'N

Started : February 26th, 1957
Completed : March 6th, 1957.
Logged by : W. Koene.

Dip at collar :
at :
at : not available
at :

Core Size : A. X. T.

Length of hole : 410.0'

0. Casing

147.5'

147.5' Altered Zone of Low Degree Ore (pyrite).
Black chloritized, showing a very high shearing at about 55° to cn.. Much very fine grained pyrite, arranged according angle of shearing. Also some patches of chalcopyrite.
166.0' About 5' in which fine grained pyrite, fine grained carbonate siderite, calcite and sericite show parallel bands in a black chloritized matrix at about 30° to cn.. Within narrow zones, shearing angles varies between 30° and 60° to cn.. A few blebs of chalcopyrite in the pyrite.
175.0' Rock becomes mineralized in spots, probably not enough to make ore.
196.0' to 198.8' Lost core.
202.0' More black chlorite appears. Sericite occurs in grey-green, elongated patches, arranged according to shearing angle (at 45° to cn.). Chalcopyrite occurs in patches at irregular intervals. Also a number of irregular calcite patches. some of them slightly mineralized. Shearing is high to very high. Shearing angle varies between 30° and 50° to cn..

329.3'

329.3' Anorthosite
Relatively unaltered to very slightly altered. Pale whitish-green to medium grey. In general porphyrytic with numerous small indistinct dirty-greenish-white phenos. Indistincty sheared to various angles to relatively massive. Contains a number of narrow zones, which are relatively highly chloritized. Cut by a few, up to 4" calcite stringers, running at various angles. A few scattered patches of mauve leucoxene. Traces of disseminated chalcopyrite and pyrrhotite. Very little change in texture, going down the hole.

410.0'

410.0' End of the hole.

D.D.H. T-74

Samples and assays takem

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
3930	147.5	150.0	2.5	0.035	0.50		
3931	150.0	155.0	5.0	0.020	0.50	0.180	0.058
3932	155.0	160.0	5.0	0.010	0.30	0.040	TR.
3933	160.0	165.0	5.0	0.020	0.50	0.180	0.040
3934	165.0	170.0	5.0	0.030	0.30	0.030	0.084
3935	170.0	175.0	5.0	0.030	0.80	0.010	0.212
4201	175.0	180.0	5.0	0.040	0.60		
4202	180.0	185.0	5.0	0.030	1.30		
4203	185.0	190.0	5.0	0.010	0.40		
4204	190.0	195.0	5.0	0.010	0.20		
4205	195.0	200.0	5.0	TR.	0.10		
4334	200.0	205.0	5.0	0.010	0.20		
4335	205.0	210.0	5.0	0.010	0.20		
4336	210.0	215.0	5.0	0.010	0.40		
4337	215.0	220.0	5.0	0.010	0.40		
4338	220.0	225.0	5.0	TR.	0.70		
4339	225.0	230.0	5.0	0.010	0.50		
4340	230.0	235.0	5.0	0.010	0.40		
4341	235.0	240.0	5.0	TR.	0.20		
4342	240.0	245.0	5.0	TR.	0.10		
4343	245.0	250.0	5.0	TR.	TR.		
4344	250.0	255.0	5.0	0.025	0.40		
4345	255.0	260.0	5.0	0.010	0.40		
4346	260.0	265.0	5.0	0.015	0.40		
4347	265.0	270.0	5.0	0.010	0.30		
4348	270.0	275.0	5.0	0.010	0.10		
4349	275.0	280.0	5.0	TR.	0.20		
4350	280.0	285.0	5.0	0.010	0.30		
4407	285.0	290.0	5.0	0.010	0.20		
4408	290.0	295.0	5.0	TR.	TR.		
4409	295.0	300.0	5.0	0.010	0.10		
4410	300.0	305.0	5.0	0.020	0.30		
4411	305.0	310.0	5.0	0.015	TR.		
4412	310.0	315.0	5.0	0.020	0.20		
Agve	147.5	185.0	37.5	0.026	0.61		

D.D.H. T-75

Location : L18E 171'N

Started : March 1st, 1957.
Completed : March 4th, 1957.
Logged by : G. Allard and
J.Koene.
K. Schrijver.

Dip at collar : 90°
at 200.0' : 85°30'
at 375.0' : 84°15'
at 525.0' : 85°30'

Core Size

Length of hole 525.0

0.0 Casing

151.0'

151.0' Highly Altered Zone Original rock unknown. Rather massive, dark green, very highly chloritized.
Good shearing starts around 165.0' at 60° to cn., very intense up to 185.0'.
Chalcopyrite blebs around 170.5'.

185.0'

185.0' Ore Zone Same rock as before, but lots of pyrite and calcite all along the schistosity planes. Some blebs of chalcopyrite here and there. Angle of shearing varies slightly, but always around 55-65° to cn..
215.0' Increase of the amount of black chlorite.
253.5' High grade pyrite and pyrrhotite, fine grained going over into high grade chalcopyrite at 255.0'.
264.7' High grade chalcopyrite, pyrrhotite and pyrite to 269.0'.
269.0' High grade pyrite.
270.0' Rock remains well mineralized. Mineral occure in narrow zones and patches, alternating with sections of waste.
292.5' High grade chalcopyrite and pyrite in a 4' zone.
294.0' Mineralization ends rather abrupt.

294.0'

294.0' Altered Zone Sheared at 45° to cn.. Black chloritized with irregular greenish-grey sericite patches. Cut by anumber of irregular calcite stringers. Contains a few scattered patches of brown leucoxene. Also a few narrow sections in which we find a relatively good developed anorthosite with faint, dirty-white subhedral feldspar-phenos.
325.0' Texture clearly visible, coarse mottled and highly altered anorthosite (highly sericitized and medium chloritized) Generally medium to highly carbonitized and slight schistose at 30° to cn..
Locally disseminated pyrite. Numerous carbonate patches and veinlets. Light brown leucoxene in few places .
400.0' decreasing alteration to generally lightly altered.

405.0'

405.0' Anorthosite Tremolite? (long hard colourless needles) also at 450.6', 453.5' and 482.7'.
Fairly massive. In general coarse porphyrytic, white-green feldspar-phenos in greyish-green matirx. Contains a few medium altered sections and a number of 1" patches of calcite.

525.0'

525.0' End of the hole.

D.D.H. T-75

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4029	151.1	155.0	3.9	0.0225	1.40		
4030	155.0	160.0	5.0	0.010	0.50		
4031	160.0	165.0	5.0	0.010	0.50		
4032	165.0	170.0	5.0	0.010	0.40		
4033	170.0	175.0	5.0	0.010	0.90		
4034	175.0	180.0	5.0	0.010	0.30		
4035	180.0	185.0	5.0	0.020	0.60		
4036	185.0	190.0	5.0	0.010	1.40		
4037	190.0	195.0	5.0	0.020	1.70		
4038	195.0	200.0	5.0	0.035	0.80		
4206	200.0	205.0	5.0	0.010	0.80		
4207	205.0	210.0	5.0	0.015	1.40		
4208	210.0	215.0	5.0	0.040	1.00		
4209	215.0	220.0	5.0	0.020	0.30		
4210	220.0	225.0	5.0	0.030	0.20		
4211	225.0	227.8	2.8	0.030	0.60	0.213	0.052
4212	227.8	230.0	2.2	0.010	0.60	0.150	TR.
4213	230.0	235.0	5.0	0.010	0.30		
4214	235.0	240.0	5.0	0.010	0.30		
4215	240.0	245.0	5.0	0.010	0.60		
4216	245.0	250.0	5.0	0.010	1.30		
4217	250.0	253.6	3.6	0.030	0.80		
4218	253.6	255.7	2.1	0.145	5.60	0.626	0.168
4219	255.7	258.4	2.7	0.040	1.60	TR.	0.048
4220	258.4	264.6	6.2	0.020	0.40	NIL	TR.
4221	264.6	269.0	4.4	0.155	11.70	0.190	0.124
4222	269.0	270.8	1.8	0.180	4.80	0.260	0.292
4223	270.8	275.0	4.2	0.060	3.00	0.020	0.100
4224	275.0	280.0	5.0	0.030	1.60	0.080	0.094
4225	280.0	281.7	1.7	0.030	3.40	0.020	0.060
4226	281.7	283.5	1.8	0.045	14.40	NIL	0.042
4227	283.5	285.0	1.5	0.030	2.50		
4228	285.0	290.0	5.0	0.020	0.80	0.090	0.060
4229	290.0	292.5	2.5	0.010	0.80	0.160	0.036
4230	292.5	295.0	2.5	0.080	15.40	TR.	0.070
4231	295.0	300.0	5.0	0.035	2.30	0.050	0.082
Agve	151.1	300.0	148.9	0.029	1.80		
	245.0	300.0	55.0	0.051	3.64		

D.D.H. T-76

Location : L16E 57'N

Started : February 24th, 1957.
Completed : March 5th, 1957.
Logged by : J. Koens.

Dip at collar : 90°
at 200.0' : 90°
at 400.0' : 87°30'
at 552.0' : 83°45'

Core Size : A. X. T.

Length of hole : 552.0'

0. Casing

112.0'

112.0' Ore Zone — Mostly fine grained pyrite arranged in the schistosity places. Sheared at about 60° to cn.. Rock medium to dark grey.
123.8' High grade ore, pyrrhotite, pyrite and some chalcopyrite. Contains sections (2') of waste.
138.0' High grade ore (chalcopyrite with pyrite and pyrrhotite).
143.4' 1' quartz stringer with siderite. Mineralized with chalcopyrite and pyrite.
145.0' Mineralization seems to decrease.
145.5' Highly altered, sligthly mineralized zone. Black chloritized with green-grey sericite in parallel bands, according to shearing at 55° to cn.. Mineral bleb and patches at irregular intervals (chalcopyrite and pyrite).
200.0' Very low grade ore. Same rock as foregoing, but slightly more mineral (chalcopyrite and pyrite).

222.5'

222.5' Highly Altered Mineralized Rock again. Same as 200.0' but mineral occurs at very irregular intervals. Shearing very distinct at 60° at cn..

285.5' 2' highly mineralized quartz veinlet. (chalcopyrite).
297.0' Low grade ore zone. Mixture of chalcopyrite and pyrite. Also increase of amount of carbonate. Colour changes to pale-medium grey.
369.8' 2' Highly mineralized calcite stringer at 60o to cn..
375.0' A 4.5' mineralized quartz vein. Very slightly mineralized (chalcopyrite).
379.5' Medium grade ore zone. Mostly chalcopyrite. Contains a 1.5' section of an almost massive mixture of chalcopyrite and pyrrhotite.
383.8' Abrupt end of mineralization.

383.8'

383.8' Highly Altered Rock

Dark green, fine grained matrix with a few mineralized patches.
392.5' Increase of the amount of carbonate which causes a pale to medium grey colour.
405.0' Mineralized zone, but will not make ore., pyrite, pyrrhotite and chalcopyrite.
413.5' End of mineralization. Rock remains highly sericitized and carbonitized.

428.4'

428.4' Anorthosite — First 10' slightly sericitized, but have a distinct porphyrytic texture.
443.0' Perfect tombstone texture of unaltered massive anorthosite. Interstices filled with greyish, chloritized mafics and mauve calcite.

Contains a couple of yellow-brown-reddish stringers and patches, probably epidote. Also a few up to 3 feet, highly to medium altered sections, which show shearing at about 45° to cn..
470.0' Very coarse tombstone texture for 6', interrupted by 6' of indistinct texture. Then again tombstone texture for 4'.
486.0' Highly altered intersection with scattered patches of chalcopyrite and pyrite.
492.0' Unaltered anorthosite. Tombstone texture is predominant.

552.0'
552.0' End of the hole.

D.D.H. T-76

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zn. %
4232	112.0	115.0	3.0	0.025	0.80			
4233	115.0	120.0	5.0	0.040	0.40			
4234	120.0	125.0	5.0	0.250	1.20	0.240	0.194	0.75
4235	125.0	126.4	1.4	0.030	0.40	0.200	0.148	
4236	126.4	129.0	2.6	TR.	0.10	TR.	TR.	
4237	129.0	134.1	5.1	0.035	1.00	0.995	0.172	
4238	134.1	136.0	1.9	0.125	5.00	0.559	0.274	
4239	136.0	137.8	1.8	TR.	0.20	0.080	TR.	
4240	137.8	140.0	2.2	0.140	4.90	0.287	0.142	
4241	140.0	143.2	3.2	0.030	0.10			
4242	143.2	145.0	1.8	0.020	2.80	0.040	0.036	
4243	145.0	150.0	5.0	0.020	0.90	0.040	TR.	
4244	171.3	173.0	1.7	0.030	3.80			
4245	187.5	190.0	2.5	0.030	0.90			
4246	190.0	193.0	3.0	TR.	0.10			
4247	193.0	194.5	1.5	TR.	0.50			
4248	194.5	195.4	0.9	0.010	1.60			
3948	195.4	200.0	4.6	0.010	0.80			
3949	200.0	205.0	5.0	0.010	1.00			
3950	205.0	210.0	5.0	0.055	4.30			
4094	210.0	215.0	5.0	0.020	0.50			
4095	215.0	220.0	5.0	0.020	0.30			
4096	220.0	225.0	5.0	0.030	0.40			
4097	225.0	228.2	3.2	0.010	0.40			
4098	228.2	230.0	1.8	0.030	4.50			
4099	230.0	235.0	5.0	0.010	0.30			
4100	235.0	240.0	5.0	0.020	0.30			
4251	240.0	245.0	5.0	TR.	0.10			
4252	245.0	250.0	5.0	0.010	0.20			
4253	250.0	255.0	5.0	0.020	0.30			
4254	255.0	260.0	5.0	TR.	0.10			
4255	260.0	265.0	5.0	0.010	0.60			
4256	265.0	270.0	5.0	0.025	0.70			
4257	270.0	275.0	5.0	0.030	0.60			
4258	275.0	280.0	5.0	0.020	0.40			
4259	280.0	285.0	5.0	0.010	0.50			
4260	285.0	286.7	1.7	0.025	6.60			
4261	286.7	290.0	3.3	0.010	0.70			
4262	290.0	295.0	5.0	0.010	0.50			
4263	295.0	296.2	1.2	TR.	0.10			
4264	296.2	300.0	3.8	0.020	1.70			
4271	300.0	302.5	2.5	0.040	0.90			

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4272	302.5	305.0	2.5	0.020	1.40		
4273	305.0	310.0	5.0	0.015	0.70		
4274	310.0	315.0	5.0	0.020	0.60		
4275	315.0	318.0	3.0	0.030	2.50		
4276	318.0	320.0	2.0	0.010	0.20		
4277	320.0	325.0	5.0	0.025	1.60		
4278	325.0	330.0	5.0	0.010	0.70		
4279	330.0	335.0	5.0	0.020	1.30		
4280	335.0	338.5	3.5	0.020	0.60		
4281	338.5	340.0	1.5	0.040	1.00		
4282	340.0	345.0	5.0	0.010	0.70		
4283	345.0	350.0	5.0	TR.	0.20		
4284	350.0	355.0	5.0	0.010	0.10		
4285	355.0	360.0	5.0	0.020	0.90		
4286	360.0	365.0	5.0	0.030	0.10		
4287	365.0	368.1	3.1	0.010	0.10		
4288	368.1	370.0	1.9	0.055	1.80		
4289	370.0	372.5	2.5	0.050	4.10		
4290	372.5	375.0	2.5	0.020	0.70		
4291	375.0	379.2	4.2	0.020	0.30		
4292	379.2	384.0	4.8	0.090	5.40		
4293	384.0	385.0	1.0	0.020	0.60		
4294	385.0	390.0	5.0	TR.	0.30		
4295	390.0	394.0	4.0	TR.	0.30		
4296	394.0	395.0	1.0	0.020	1.70		
4297	395.0	400.0	5.0	0.010	0.50		
Agve	112.0	150.0	38.0	0.0664	1.23		
	187.5	400.0	212.5	0.019	0.92		
	194.5	210.0	15.5	0.0245	2.04		
	368.1	384.0	15.9	0.050	2.68		

D.D.H. T-77

Location : L16E 144'N

Started : February 28th. 1957.
Completed : March 5th. 1957
Logged by : J. Keene.

Dip at collar : 90°
at 140.0' : 88°
at 275.0' : 85°45'
at 530.0' : 87°

Core Size : A. X. T.

Length of hole : 538.0'

0. Casing

127.0'

127.0' Highly Altered Zone — Highly chloritized, black green rock with light green streaks and patches of sericite-saussurite (?). Sheared at about 45° to cn. Carbonitized in patches and stringers. Some disseminated pyrite and chalcopyrite (less than ½%). Contains narrow slightly altered sections, which have faint visible texture reminding of anorthosite.
304.0' Sericite becomes predominant. Occurs in huge, irregular, greenish spots. A few mineralized patches at 332.0' and from 337.0' to 338.0'.

347.0'

347.0' Anorthosite — Grey-white, spotty, due to numerous small dark green chloritized patches. Massive. Going over into coarse porphyrytic texture.

390.0'

390.0' Altered Zone — First 2' are greenish-yellow, huge sericite patches. Then chlorite becomes predominant, giving rock a black colour. Fairly massive.
393.0' Low to medium grade ore in quartz zone (pyrite and chalcopyrite).
400.5' Highly altered rock again.

406.0'

406.0' Anorthosite — as 347.0' Contains a number of narrow, highly chloritized sections 466.2' a 7" slightly mineralized calcite-quartz stringer in 3' highly altered zone. Predominant is pale, greenish-grey anorthosite with an indistinct porphyrytic texture. Cut by anumber, up to 1" calcite stringers, mostly running at 40° to cn..
A few mineralized patches (pyrite and chalcopyrite(and some scattered patches of brown leucoxene.

538.0'

538.0' End of the hole.

D.D.H. T-77

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
4413	393.0	395.0	2.0	0.020	0.60
4414	295.0	398.0	3.0	0.0375	2.20
4415	298.0	400.5	2.5	0.160	3.60
Agve	395.0	400.5	5.5	0.093	2.84

D.D.H. T-80

Location : L17E 114'N

Started : March 1st, 1957.
Completed : March 9th, 1957.
Logged by : J. Koens.

Dip at collar : 90°
at 150.0' : 89°

Core Size : A. X. T.

Length of hole : 463.0'

0.0 Casing

134.8'

134.8' Altered Zone — Highly chloritized. Black, heavily sheared at 60° to cn.. Elongated patches of grey-green sericite in the schistosity planes. A few patches of pyrite and chalcopyrite.

144.0'

144.0' High Grade Ore — Mostly very coarse grained pyrite in a zone of quartz and calcite. Also very fine grained pyrite and a few blebs of chalcopyrite and pyrrhotite.
153.0' No more quartz, but only carbonate (calcite, ankerite?, siderite?).
changes over into medium or low grade ore at 155.0'.

155.0'

155.0' Medium to Low Grade Ore
Same as 144.0', but now much more carbonate and less mineral.

162.5'

162.5' Highly Altered Mineralized Rock. No ore. As 134.8'.

175.0'

175.0' Low to Medium Grade Ore.
Mostly chalcopyrite at irregular spaced intervals. Rock is more sericitized, pale grey in colour. Contains several dirty-white patches and streaks of calcite.
188.8' to 190.3' High grade chalcopyrite.

190.3'

190.3' Low Grade Ore — Mostly pyrite in carbonitized, altered rock. Also blebs and patches of chalcopyrite.

200.0'

200.0' Medium Grade Ore, chalcopyrite, pyrrhotite and pyrite. Contains lots of calcite. Rock is pale green, very fine grained. Contains probably amphibole and chloritoid. Shearing angle at 30-45° to cn..
227.0' End of Medium grade ore.

227.0'

227.0' Highly Altered Sheared Mineralized Rock, not enough mineral to make ore. Colour dark green. Patches of carbonate all through. Decrease of amount of mineralized patches. Sheared at about 50° to cn..
290.0' More sericite appears. Occurs in large yellow-grey-green spots. Also a number of huge, irregular patches of brown-mauve carbonitized leucoxene.
325.0' Sericite and chlorite in equal amounts. Rock contains a few scattered patches of chalcopyrite and pyrite.

414.8'

414.3' Anorthosite

Fresh looking. Relatively unaltered. Massive. In general coarse porphyrytic. 80-90% feldspar. Colour is grey-green. Contains a few, narrow sections, which are relatively slightly altered, appear more grey.
450.3' Good, coarse tombstone texture. Interstices filled with mauve calcite and grey-green chlorite. Feldspar-phenos have dark, chloritized borders.

458.0'

458.0' Altered Zone

Increase of alteration to high. Rock is dark, black-green, chloritized. Contains small patches of leucoxene.

463.0'

463.0' End of the hole.

D.D.H. T-20

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4416	135.0	140.0	5.0	0.010	0.30		
4417	140.0	145.0	5.0	0.030	1.10	0.100	0.060
4418	145.0	150.0	5.0	0.065	3.10	0.219	0.194
4419	150.0	155.0	5.0	0.160	1.60	0.134	0.408
4420	155.0	160.0	5.0	0.175	0.40	0.080	0.279
4421	160.0	162.0	2.0	0.060	2.70	0.149	0.136
4422	162.0	164.0	2.0	0.010	0.30	NIL	TR.
4423	164.0	165.0	1.0	0.020	2.10	0.185	0.166
4424	165.0	170.0	5.0	0.010	0.20		
4425	170.0	175.0	5.0	0.010	0.30		
4426	175.0	180.0	5.0	0.120	2.90	TR.	0.020
4427	180.0	185.0	5.0	0.020	4.80	TR.	TR.
4428	185.0	187.5	2.5	0.010	0.30		
4429	187.5	190.5	3.0	0.020	12.60	0.101	NIL
4430	190.5	195.0	4.5	0.080	2.40	0.050	NIL
4431	195.0	200.0	5.0	0.225	2.60	TR.	TR.
4432	200.0	205.0	5.0	).050	5.60	0.170	TR.
4433	205.0	210.0	5.0	0.020	1.20	TR.	TR.
4434	210.0	211.5	1.5	0.020	2.90	NIL	TR.
4435	211.5	213.5	2.0	TR.	0.10	NIL	0.010
4436	213.5	215.0	1.5	0.030	2.70	TR.	0.020
4437	215.0	220.0	5.0	0.030	0.80	0.080	TR.
4438	220.0	225.0	5.0	0.050	1.80	0.150	NIL
4475	225.0	227.0	2.0	0.075	3.50		
4476	227.0	230.0	3.0	0.025	1.30		
4477	230.0	235.0	5.0	0.030	0.80		
4478	235.0	240.0	5.0	0.010	0.50		
4479	240.0	245.0	5.0	0.030	2.30		
4480	245.0	250.0	5.0	0.020	1.70		
4481	250.0	255.0	5.0	0.010	0.50		
Agve	140.0	211.5	71.5	0.071	2.53		
	140.0	255.0	115.0	0.054	2.07		
	187.5	211.5	24.0	0.080	4.16		

D.D.H. T-84

Location : L20E 198'N

Started : February 28th, 1957
Completed : March 5th, 1957.
Logged by : J. Koene.

Dip at collar : 90°
at 200.0' : 87°15'
at 375.0' : 87°
at 505.0' : 89°

Core Size : A. X. I.

Length of hole : 505.0'

0. Casing

139.3'

139.3' Anorthosite — Unaltered Massive. Medium grey. Indistinct to well developed tombstone texture. Contains narrow zones which are medium to highly chloritized. 187.0' Colour slightly more greenish-grey. Texture indistinct. fairly massive

214.0'

214.0' Altered Rock — Highly sheared at 40-45° to cn.. and with patchy replaced sulphides. (pyrite and some chalcopyrite).
249.0' Coog developed, coarse sized sidsite (ankerite?).
252.0' End of siderite. Followed by highly altered, heavily sheared rock (at 45° to cn..).
259.8' High grade ore zone. Mostly pyrite, fine grained and relatively coarse.
267.8' Highly altered, mineralized rock, sericite is predominant. Mineral occurs at irregular intervals (pyrrhotite and pyrite). Still sheared at about 50° to cn..
303.5' Chalcopyrite in quartz for 1'.
317.0' Highly altered rock. No mineral. Cut by anumber of up to 3", irregular calcite stringers. Pale to medium grey with a very few scattered patches of pyrite.
355.0' Alteration decreases to slightly More sericite appearsin a yellow white modification.

392.5'

392.5' Anorthosite — Relatively unaltered. Perfect tombstone texture. Interstices filled with greenish-bleack mafics and some mauve calcite. Contains sections which are relatively slightly sericitized, showing faintly visible remnants of large feldsapr-phenos. Also long zones which have a spotty appearance due to small chloritized patches. In general the anorthosite looks fairly fresh. Up to 80-85% feldspar.

492.0'

492.0' Highly Altered Rock — Probably anorthosite. Black chloritized with a number of white spots, possibly remnants of feldspar. Massive. Contains a number of large patches of brown carbonitized leucoxene.

505.0'

505.0' End of the hole.

D.D.H. T-84

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4249	215.0	220.0	5.0	0.030	0.50		
4250	220.0	225.0	5.0	0.010	0.60		
3994	225.0	230.0	5.0	0.010	0.10		
3995	203.0	235.0	5.0	0.010	0.20		
3996	235.0	240.0	5.0	0.010	0.20		
3997	240.0	245.0	5.0	0.010	0.30		
3998	245.0	250.0	5.0	0.010	0.20		
4304	250.0	255.0	5.0	0.010	0.20		
4305	255.0	260.0	5.0	0.010	0.40		
4306	260.0	265.0	5.0	0.0675	1.80	TR.	0.206
4307	265.0	267.7	2.7	0.110	2.20	TR.	0.156
4308	267.7	270.0	2.3	0.010	0.30		
4309	270.0	275.0	5.0	0.010	0.30		
4310	275.0	280.0	5.0	0.020	0.20		
4311	280.0	282.8	2.8	0.010	0.20		
4312	282.8	285.4	2.6	0.010	1.30		
4313	285.4	288.0	2.6	0.010	0.20		
4314	288.0	290.0	2.0	0.040	0.40		
4315	290.0	295.0	5.0	0.010	0.40		
4316	295.0	299.1	4.1	NIL	TR.		
4317	299.1	300.0	0.9	0.065	2.00		
4318	300.0	305.0	5.0	0.030	2.00		
4319	305.0	310.0	5.0	0.010	0.40		
4320	310.0	312.6	2.6	0.010	0.40		
4321	312.6	315.0	2.4	0.010	0.20		
4322	315.0	316.7	1.7	0.020	0.60		
Agve	260.0	267.7	7.7	0.082	1.94		
	299.1	305.0	5.9	0.035	2.00		
	260.0	305.0	45.0	0.027	0.83		

D.D.H. T-85

Location : L19S 53'N

Started : March 6th, 1957.
Completed: March 11th, 1957.
Logged by : J. Koono.

Dip at collar : 90°
at :
at :

Not available

Core Size : A. X. T.

Length of hole : 572.8'

C.C Casing

145.0'

145.0' Anorthosite — Unaltered, massive. Greenish-white. Spotty, due to small greenish mafics.

156.2'

156.2' Altered Rock — Sharp change. Black chloritized. Sheared at a small angle to cn.. Contains a few very narrow sections in which original anorthosite is very good visible. Cut by a number of irregular calcite stringers. Contains a number of scattered patches of pyrite.
172.0' Sericite is predominant, giving rock a grey-black colour.
209.0' Rock becomes black again, due to increasing amount of chlorite. Numerous irregular spots of sericite-saussurite give rock a spotty appearance. Shearing increases to high.
221.5' Start of very high weathered section of very soft rock. Colour is black-brown, due to fine grained limonite.
222.5' Lost core to 242.0'. Except for 3" of quartz, possibly from a stringer. Probably lost core belongs to same soft, weathered kind of rock, already mentioned at 221.5'.
242.0' Highly altered rock again. Very high degree of schistosity at an irregular, large angle to cn.. Very soft rock. Highly sericitized. Contains a few patches of fine grained pyrite.

260.0'

260.0' Low Grade Ore — Mineralized with fine grained pyrite, arranged in the schistosity planes.

265.0'

265.0' High Grade Ore — First 7' very fine grained pyrite. Further down also blebs and fissures of chalcopyrite.
281.0' 15' of high grade pyrite, pyrrhotite and chalcopyrite in equal amounts. Contains a number of sections of waste.

297.0'

297.0' Abrupt Decrease of Mineralization. Still slightly mineralized, but will not make ore.
334.0' Rock is not longer mineralized, except for a few patches of chalcopyrite. Still highly altered, black-green chloritized with irregular, large greyish patches of sericite-carbonate-saussurite. Sheared at about 30° to cn..
354.0' Rock becomes slightly mineralized again. Mineral is mostly pyrite, occurs at irregular spaced intervals in irregular patches and fissures. Rock is still highly altered and sheared at about 30-45° to cn..

426.0'	Low Grade Ore	Mostly fine grained pyrite. Increasing amount of carbonate. Sheared at about 45° to cn..
448.0'	High Grade Ore	Almost massive, fine grained pyrite with some chalcopyrite.
452.0'	Low Grade Ore	Irregular blebs and patches of pyrite, sphelarite and chalcopyrite. Rock is dark black-green. Sheared at about 30-45° to cn.. Much sphalerite from about 488.0' to 496.0'. Thereafter mineralization decreases rapidly.
497.3'	Altered Rock	Black chloritized with irregular patches of sericite, surrounding black chloritized phenos. A number of fine, brown patches of leucoxene.
512.0'	Anorthosite	Relatively unaltered to very slightly altered. Fairly massive. Dirty-white feldspar-phenos, surrounded by grey-greenish groundmass.
521.0'	Altered Zone	Dark black chloritized as 497.3'.
527.5'	Anorthosite	as 512.0'. 536.6' "Black" anorthosite. Black-blue matrix with numerous, irregular shaped feldspar-phenos. 549.5' Colour changes to pale grey. Rock contains a number of black, euhedral phenos. Also a number of feldspar-phenos, up to ¼". Probably is this rock of more basic origin.
572.8'	End of the hole.	

D.D.H. T-85

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zinck %
4355	260.0	265.0	5.0	0.020	0.30	0.150	0.066	
4356	265.0	270.0	5.0	0.060	0.50	0.210	0.168	
4357	270.0	275.0	5.0	0.085	1.00	0.050	0.684	
4358	275.0	280.0	5.0	0.1275	0.80	0.030	0.282	
4359	280.0	283.0	3.0	0.430	1.00	0.180	0.218	
4360	283.0	285.0	2.0	0.015	0.50	0.010	0.060	
4361	285.0	289.0	4.0	0.015	1.00	0.050	0.068	
4362	289.0	292.0	3.0	0.145	2.20	0.170	0.128	
4363	292.0	296.5	4.5	0.065	3.40	0.100	0.176	
4364	296.5	300.0	3.5	0.030	0.80	0.010	0.066	
4490	300.0	305.0	5.0	0.020	0.40			
4491	305.0	310.0	5.0	0.025	0.50			
4492	310.0	315.0	5.0	0.010	0.40			
4493	315.0	320.0	5.0	0.020	0.30			
4494	320.0	325.0	5.0	0.055	0.10			
4495	325.0	330.0	5.0	0.020	0.20			
4496	330.0	335.0	5.0	0.020	0.40			
4497	335.0	340.0	5.0	0.010	0.20			
4513	350.0	355.0	5.0	0.010	TR.			
4514	355.0	360.0	5.0	0.010	0.30			
4515	360.0	365.0	5.0	0.010	0.60			
4516	365.0	370.0	5.0	0.010	0.20			
4517	370.0	375.0	5.0	0.010	0.40			
4518	375.0	380.0	5.0	0.010	0.20			
4519	380.0	385.0	5.0	0.020	0.10			
4520	385.0	390.0	5.0	0.185	0.30			
4521	390.0	395.0	5.0	0.010	0.10			
4522	395.0	400.0	5.0	0.010	0.10			
4523	400.0	405.0	5.0	0.010	0.20			
4524	405.0	410.0	5.0	TR.	TR.			
4525	410.0	415.0	5.0	0.010	0.20	0.050	NIL	
4526	415.0	420.0	5.0	0.020	0.10	0.100	0.064	
4527	420.0	425.0	5.0	0.015	0.10	0.150	0.054	
4714	425.0	430.0	5.0	0.010	0.10			
4715	430.0	435.0	5.0	0.010	0.10			
4716	435.0	440.0	5.0	0.030	0.10			
4717	440.0	443.0	3.0	0.010	0.10			
4718	443.0	447.0	4.0	0.315	0.90	0.150	0.186	
4719	447.0	450.0	3.0	0.630	0.160	0.200	0.186	
4720	450.0	455.0	5.0	0.055	1.00	0.050	0.092	
4721	455.0	460.0	5.0	0.020	0.40			TR.
4722	460.0	465.0	5.0	0.020	0.60			0.29
4723	465.0	470.0	5.0	0.025				0.48

Sample number	Section of hole From	To	Samplelength	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zinck %
4724	470.0	475.0	5.0	0.010	0.20			1.66
4725	475.0	480.0	5.0	0.020	0.20			0.97
4726	480.0	485.0	5.0	0.010	0.60	0.100	NIL	0.20
4727	485.0	490.0	5.0	0.010	0.20	0.080	NIL	3.06
4728	490.0	495.0	5.0	0.010	0.60	0.100	NIL	5.50
4729	495.0	500.0	5.0	0.010	0.10	TR.	NIL	1.70
Agve	270.0	296.5	26.5	0.119	1.47			
	443.0	455.0	12.0	0.285	1.12			
	443.0	495.0	52.0	0.078	0.54			
	470.0	500.0	30.0	0.012	0.32			2.15

D.D.H. T-96

Location : L18E 4'S

Dip at collar : 90°

Core Size : A. X. T.

Length of hole : 596.0'

Started : March 6th, 1957.
Completed : March 11th, 1957.
Logged by : J. Koene and N. Vollo.

0.0 Casing

172.0'

172.0' Anorthosite — Slightly altered to relatively unaltered. Colour is pale greenish-white with a number of large, dark green spots, probably sericite. Contains a number of brown leucoxene in scattered patches.
198.5' Colour changes into yellow-brown (iron-sericite) while the dark green interstitial chlorite becomes rusty-brown oxidized, due to weathering of the anorthosite.
202.0' End of this section.

202.0'

202.0' Highly Altered Zone — Black chloritized. First 3' medium grey sericitized. Sheared at about 60° to cn.. Cut by numerous fine calcite stringers at various angles. A few patches of mineral (pyrite and chalcopyrite).
215.0' Quartz vein with patches of black chlorite and chalcopyrite and pyrite.
231.2 End of vein.

233.0'

233.0' Ore Zone — 15 to 20% pyrite along schistosity which is at about 70° to cn..
Scattered patches of chalcopyrite.
250.0' Becomes more massive with 5-10% pyrite in irregular patches.
Scattered patches and streaks of chalcopyrite, some pyrrhotite.
285.0' Less pyrite, more chalcopyrite, disseminated, irregularly throughout. A few anhedral crystals of leucoxene.
Irregular shreds or patches of black chlorite.
Alteration over 2' at 288.0' and 293.0'.
295.0' Sulphide content increases to about 35-40% with about 20% pyrrhotite. 10% pyrite and 5% chalcopyrite.
Coarse dark grey to black ankerite from 294.0' to 295.4'.
Few patches of coarse brown siderite at 305.0'.

320.0'

320.0' Altered Zone — Very irregular zone, large% black chloritic alteration, cut by 1-4' bands of lighter green sericite carbonate alteration.
Abundant carbonitized leucoxene.
Scattered patches and veinlets of pyrite-pyrrhotite mineralization.
Fairly massive, pyrite pyrrhotite with a little chalcopyrite over 2' at 364.0'.
Irregular ½" stringer of chalcopyrite parallels core over 1' at 416.0'
Coarse 1' grey calcite vein at 340.4'.

447.5'

447.5' Medium Grade Ore Zone

Starts with 5' of almost massive, fine grained pyrite.
459.1' Mineralized quartz vein to 464.0' (chalcopyrite, pyrrhotite and pyrite).
464.0' Bright dark green, altered rock with 20% pyrrhotite and some chalcopyrite. Mineralized zones alternate with sections of waste.
493.3' Good developed, coarse sized siderite crystals to 497.0'. Also a few patches of sphalerite, followed by about 15' of quartz, rich rock with small patches of spahlerite, pyrite, pyrrhotite and some chalcopyrite. Mineralization decreases. Rock remains highly altered.

520.5'

520.5' Highly Altered Rock Very slightly mineralized in spots. Indistinct sheared between 45 and 70° to cn.. Rock is black with irregular patches of sericite-saussurite (?), chlorite predominant.
552.0' A zone of about 10', yellow green in colour in which sericite is predominant. Rock is medium carbonitized, followed by about 5' of pale grey, highly carbonitized rock. Fairly massive.

571.0'

571.0' Anorthosite Slightly altered, black, probably highly zoisitized rock. Euhedral, dirty white phenos of feldspar in a blue black matrix. Rock grades over into a pale to medium grey variety, spotted with numerous green patches of chloritized mafics.

596.0'

596.0' End of the hole.

D.D.H. T-86

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4482	214.5	220.0	5.5	0.025	0.40		
4483	220.0	225.0	5.0	0.010	TR.		
4484	225.0	231.0	6.0	TR.	0.10		
4485	231.0	235.0	4.0	0.010	0.20	0.140	0.040
4486	235.0	240.0	5.0	0.020	0.30	0.030	0.066
4487	240.0	245.0	5.0	0.285	2.40	0.280	0.082
4488	245.0	250.0	5.0	0.030	0.20		
4371	250.0	255.0	5.0	0.010	0.20	0.020	0.052
4372	255.0	260.0	5.0	0.030	0.60	TR.	0.052
4373	260.0	265.0	5.0	0.080	1.10	NIL	0.216
4374	265.0	270.0	5.0	0.060	0.70	NIL	0.088
4375	270.0	275.0	5.0	0.085	0.90	TR.	0.170
4376	275.0	280.0	5.0	0.040	0.40		
4377	280.0	285.0	5.0	0.025	0.70		
4378	285.0	290.0	5.0	0.020	1.20		
4379	290.0	295.0	5.0	0.020	0.80		
4380	295.0	300.0	5.0	0.210	1.50	0.050	0.280
4381	300.0	305.0	5.0	0.065	3.20	0.150	0.280
4382	305.0	310.0	5.0	0.100	1.20	0.253	0.206
4383	310.0	315.0	5.0	0.040	0.30	0.172	0.138
4384	315.0	320.0	5.0	0.115	0.90	0.140	0.150
4385	320.0	325.0	5.0	0.020	0.40		
4386	325.0	330.0	5.0	0.020	0.30		
4387	330.0	335.0	5.0	0.010	0.20		
4388	335.0	340.0	5.0	TR.	TR.		
4389	340.0	345.0	5.0	0.015	0.30		
4390	345.0	350.0	5.0	0.010	0.20		
4391	350.0	355.0	5.0	0.015	0.80		
4392	355.0	360.0	5.0	0.015	0.40		
4393	360.0	364.0	4.0	0.010	0.10		
4394	364.0	366.0	2.0	0.020	2.00	0.722	0.244
4395	366.0	370.0	4.0	TR.	0.20		
4396	370.0	375.0	5.0	0.010	0.20		
4397	375.0	380.0	5.0	0.010	0.70		
4398	380.0	385.0	5.0	0.010	TR.		
4399	385.0	390.0	5.0	0.010	0.20		
4400	390.0	395.0	5.0	0.010	0.10		
4501	395.0	400.0	5.0	TR.	0.10		
4502	400.0	405.0	5.0	0.010	0.10		
4503	405.0	410.0	5.0	0.010	0.20		
4504	410.0	415.0	5.0	TR.	1.10		
4505	415.0	420.0	5.0	0.015	0.70	0.270	0.074
4506	420.0	425.0	5.0	TR.	0.20	0.080	0.050
4533	425.0	430.0	5.0	0.030	0.40		
4534	430.0	435.0	5.0	0.010	0.10		

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4535	435.0	440.0	5.0	TR.	TR.		
4536	440.0	445.0	5.0	0.035	0.10		
4537	445.0	447.5	2.5	0.010	0.10		
4538	447.5	450.0	2.5	0.600	1.40	0.425	0.164
4539	450.0	455.0	5.0	0.040	0.60	0.475	0.246
4540	455.0	460.0	5.0	0.495	2.40	0.191	0.190
4541	460.0	464.0	4.0	0.055	5.50	0.170	0.086
4542	464.0	467.0	3.0	0.025	1.20	0.824	0.116
4543	467.0	470.0	3.0	0.020	1.90	0.391	0.072
4544	470.0	475.0	5.0	0.050	1.10	0.248	0.116
4545	475.0	480.0	5.0	0.030	0.50	0.279	0.112
4546	480.0	485.0	5.0	0.030	0.20	0.244	0.086
4547	485.0	488.5	3.5	0.040	0.20	0.371	0.202
4548	488.5	495.0	6.5	0.035	0.10	NIL	0.066
4549	495.0	500.0	5.0	0.055	0.20	TR.	0.132
4601	500.0	505.0	5.0	0.110	0.10	0.279	0.286
4602	505.0	510.0	5.0	0.055	0.20	NIL	0.240
4603	510.0	515.0	5.0	0.020	0.30		
4604	515.0	520.0	5.0	TR.	0.10		
4605	520.0	525.0	5.0	TR.	0.30		
Agve	240.0	310.0	70.0	0.076	1.08		
	295.0	310.0	15.0	0.125	1.97		
	447.5	475.0	27.5	0.174	2.01	0.384	0.148

D.D.H. T-87

Location : L11E 33'N

Started : March 5th, 1957.
Completed : March 7th, 1957.
Logged by : J. Koene.

Dip at collar : 90°
at 125.0' : 90°
at 275.0' : 89°

Core Size : A. X. T.

Length of hole : 274.0'

C.C Casing

22.5'
22.5' Altered Zone — Black chloritized. Sheared at about 30-45° to cn.. Contains a few sections of relatively unaltered anorthosite. Slightly mineralized, but will not make ore. (pyrite and chalcopyrite). Numerous irregular white patches of calcite.

62.0'
62.0' Low Grade Ore — Mostly chalcopyrite. About 0.8 to 1.2 copper. Mineralization at irregular spaced intervals. Still the same altered rock-type. Shearing becomes indistinct in spots. Contains up to 5' section of waste.

129.0'
129.0' High Grade Ore — Chalcopyrite and pyrrhotite. About 30-40% mineralization.

133.5'
133.5' Low to Medium Grade Ore as 62.0'.
193.0' End of mineralization. Rock is still highly altered, yellow-green spots and sericite appear.
200.0' Alternation decreases rapidly.

207.3'
207.3' Anorthosite — Relatively unaltered, very indistinctly sheared at various angles. Only sheared for 5'. Pale grey-white. Indistinct texture. Mottling. Contains a few highly altered zones.
247.0' Real fresh looking dirty-white with numerous spots of greenish mafics.

274.0'
274.0' End of the hole.

D.D.H. T-87
Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4439	22.5	25.0	2.5	0.010	1.30	0.080	0.078
4440	25.0	30.0	5.0	0.010	2.60	0.150	TR.
4441	30.0	35.0	5.0	0.010	0.60		
4442	35.0	40.0	5.0	0.010	0.50		
4443	40.0	45.0	5.0	0.010	0.10		
4444	45.0	50.0	5.0	0.010	0.40		
4445	50.0	55.0	5.0	0.030	1.30		
4446	55.0	60.0	5.0	0.015	0.60		
4447	60.0	65.0	5.0	0.020	3.60	TR.	TR.
4448	65.0	70.0	5.0	0.010	3.60	TR.	TR.
4449	70.0	75.0	5.0	0.010	0.50	TR.	TR.
4450	75.0	80.0	5.0	0.010	0.40	NIL	TR.
4451	80.0	85.0	5.0	0.020	2.20	TR.	0.058
4452	85.0	90.0	5.0	0.010	0.40	0.070	0.040
4453	90.0	95.0	5.0	0.010	1.70	0.020	TR.
4454	95.0	100.0	5.0	0.010	0.60		
4455	100.0	105.0	5.0	0.010	0.30		
4456	105.0	110.0	5.0	0.010	0.30		
4457	110.0	115.0	5.0	0.010	0.80		
4458	115.0	120.0	5.0	0.025	2.60	TR.	0.030
4459	120.0	125.0	5.0	0.020	1.60		
4460	125.0	130.0	5.0	0.020	2.30	0.150	TR.
4461	130.0	135.0	5.0	0.030	4.80	0.193	0.062
4462	135.0	140.0	5.0	0.030	3.20	0.040	0.040
4463	140.0	145.0	5.0	0.020	2.70	NIL	0.030
4464	145.0	150.0	5.0	0.015	1.10	0.050	TR.
4465	150.0	155.0	5.0	0.030	3.00	0.180	TR.
4466	155.0	160.0	5.0	0.015	1.10	0.100	TR.
4467	160.0	165.0	5.0	0.015	0.80	0.050	TR.
4468	165.0	170.0	5.0	0.010	1.20	0.030	TR.
4469	170.0	175.0	5.0	0.010	0.80		
4470	175.0	180.0	5.0	0.020	1.00		
4471	180.0	185.0	5.0	0.010	1.20		
4472	185.0	190.0	5.0	0.010	1.90	0.180	TR.
4473	190.0	195.0	5.0	0.010	0.20	TR.	TR.
4474	195.0	200.0	5.0	0.010	0.50		
Agve	22.5	190.0	167.5	0.015	1.50		
	115.0	190.0	75.0	0.019	1.95		
	115.0	155.0	40.0	0.024	2.66		

D.D.H. T-88

Location : L20E 111'N

Started : March 7th, 1957.
Completed : March 14th, 1957.
Logged by : N. Vollo.

Dip at collar :
at :
at :
at :

Core Size : A. X. T.

Length of hole : 690.0'

0.0 Casing

140.0'

140.0' Anorthosite

140.0' to 215.0' Grey, coarse with coalescing texture with scattered crystals of leucoxene.
Narrow patches of black chlorite alteration with coarse brown carbonitized leucoxene crystals. from 164.0' to 166.0' and from 180.0' to 192.0'. No mineral.
215.0' to 231.5' becomes moderately altered, carbonitized, sericitized. Fairly abundant leucoxene. Blocked core to 231.5'.

231.5'

231.5' Altered Zone

Black chlorite schist with 25% sericite-saussurite as lenses and streaks along schistosity which is at 55° to cn..
Scattered grey quartz and quartz-calcite veinlets up to 1" throughout at 40° to cn.. Sparse pyrite, pyrrhotite and chalcopyrite as occasional ¼-½" bands along schistosity.
266.0' Becomes mineralized with 10-15% fine pyrrhotite, pyrite along schistosity, occasional fine stringer chalcopyrite along schistosity. Schistosity strongly pronounced at 45° to cn..
270.0' Mineralization ends, becomes banded chlorite-sericite schist at 50-55° to cn..

280.0'

280.0' Ore Zone

About 50% sulphide, about25% pyrite, 15% pyrrhotite, 10% chalcopyrite. Scattered porous, vuggy patches. A little siderite along schistosity at 281.0' Schistosity pronounced in places at 35-55° to cn..
295.0' Very vuggy quartz zone, vuggy being filled by orange-brown limonite.
298.0' Dark green chlorite alteration with 15-20% irregular sericite alteration. Poorly mineralized with 10-15% pyrite, 5% pyrrhotite, light chalcopyrite.
314.4' Good irregular chalcopyrite in 1.2' grey quartz vein, cutting core at 60° to cn..
320.0' Sulphide content increases to about 40%, 20% pyrrhotite, 15% pyrite with good chalcopyrite to 322.5'.
325.0' Green chlorite alteration with about 5% combined pyrrhotite, pyrite and chalcopyrite.
333.8' Coarse grey quartz-calcite vein, well mineralized with pyrite, chalcopyrite, pyrrhotite and a little brown sphalerite.

336.8' Chlorite schist with25% pyrite, pyrrhotite along schistosity at 55° to cn..
339.2' Quartz-calcite vein as above, well mineralized with pyrite, pyrrhotite and chalcopyrite.
341.1' Green chlorite schist at 45° to cn.. 5-10% pyrrhotite, sparse chalcopyrite. Good chalcopyrite in 6" quartz vein at 343.0'.
350.0' Becomes silicified, more sericitic, with 5% disseminated chalcopyrite, less pyrrhotite and pyrite.
Massive, fine pyrrhotite and pyrite over 1' at 357.0'.
A little sphalerite at 361.0' and from 365.0' to 366.0'. Contact at 60° to cn. to 371.2'.
371.2' Massive sulphide. Fine grained pyrrhotite, pyrite and chalcopyrite.
375.0' About 50% sulphides with more massive patches, largely fine pyrite. Zone appears to have been a quartz vein zone, with better chalcopyrite in more siliceous spections.
390.0' More chloritized with less sulphides. Chalcopyrite rather sparse. Grades into 405.0'.
405.0' Strong dark green chlorite alteration with about 5% sulphides, occasional irregular stringer of chalcopyrite.
425.0' Same, but with better cahlcopyrite. Low grade ore. Good sphalerite over 1.2' at 431.5'.
Grades into 437.0'.

437.0'

437.0' Anorthosite — Grey with coalescing texture, relatively lightly altered.
475.0' Becomes very coarse, porphyrytic.
498.0' Becomes dark grey with occasional very coarse white plagio-phenos.
530.0' Becomes finer grained with patches of reversed texture. Some patches of yellow-green epidote.
574.0' Colour is lighter, more sericitized and carbonitized.

589.0'

589.0' Altered Zone — Fine, black chlorite alteration with a few quartz-calcite stringers. No mineral. Sparse brown carbonate after leucoxene.

605.0'

605.0' Anorthosite — Relatively unaltered, coarse with 95% plagio. Texture coalescent, sparse patchy leucoxene. In places matrix is replaced by pink calcite.

690.0'

690.0' End of the hole.

D.D.H. T-88

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zinck %
4551	266.0	270.0	4.0	0.020	0.30	0.020	0.054	
4552	270.0	275.0	5.0	0.010	0.20			
4553	275.0	280.0	5.0	0.010	0.30			
4554	280.0	285.0	5.0	0.155	1.30	0.086	0.138	
4555	285.0	290.0	5.0	0.115	1.60	TR.	0.206	
4556	290.0	295.0	5.0	0.145	2.10	0.080	0.330	
4557	295.0	300.0	5.0	0.025	1.30	0.050	0.484	
4558	300.0	305.0	5.0	0.010	0.30	TR.	TR.	
4559	305.0	310.0	5.0	0.010	0.30	TR.	TR.	
4560	310.0	315.0	5.0	0.050	0.70	TR.	0.080	
4561	315.0	320.0	5.0	0.015	0.40	TR.	TR.	
4562	320.0	325.0	5.0	0.060	1.20	0.180	0.116	
4563	325.0	330.0	5.0	0.030	0.20	0.130	0.082	
4564	330.0	333.8	3.8	0.010	0.10	TR.	0.050	
4565	333.8	336.6	2.8	0.150	0.60	0.150	0.162	
4566	336.6	339.2	2.6	0.030	0.20			
4567	339.2	345.0	5.8	0.085	0.40	0.120	0.088	
4568	345.0	350.0	5.0	0.010	0.20	0.150	0.044	
4569	350.0	355.0	5.0	0.030	0.80	0.020	0.034	
4570	355.0	360.0	5.0	0.055	1.80	TR.	0.094	
4571	360.0	365.0	5.0	0.145	0.60	NIL	TR.	
4572	365.0	371.2	6.2	0.100	0.60	TR.	0.062	
4573	371.2	375.0	3.8	0.230	1.50	0.100	0.206	
4606	375.0	380.0	5.0	0.105	1.50	0.164	0.102	
4607	380.0	385.0	5.0	0.285	0.70	0.070	0.238	
4608	385.0	390.0	5.0	0.420	0.90	0.100	0.218	
4609	390.0	395.0	5.0	0.010	0.30	0.100	0.040	
4610	395.0	400.0	5.0	0.040	0.20	0.100	0.108	
4611	400.0	405.0	5.0	0.060	0.60	0.050	0.128	
4612	405.0	410.0	5.0	0.010	0.20	TR.	0.044	
4613	410.0	415.0	5.0	0.010	0.30	TR.	TR.	
4614	415.0	420.0	5.0	0.010	0.50	TR.	NIL	
4615	420.0	425.0	5.0	0.030	0.50	0.020	NIL	
4663	425.0	430.0	5.0	0.020	0.40			
4664	430.0	437.0	7.0	0.030	0.80			0.10
4665	437.0	440.0	3.0	0.010	TR.			
Agve	280.0	300.0	20.0	0.110	1.58			
	355.0	390.0	35.0	0.187	1.055			
	280.0	390.0	110.0	0.099	0.85			
	280.0	437.0	157.0	0.076	0.73			

D.D.H. T-89

Location : L24E 00'

Started : March 9th, 1957.
Completed : March 29th, 1957.
Logged by : N. Vollo.

Dip at collar : 51°
at 200.0' : 39°30'
at 400.0' : 38°
at 850.0' : 34°

Azimuth:
" : N3°E
" : N3°W

Core Size : A.X.T. and E.X.T.

Length of hole : 1005.0'

0.0 Casing

216.0'

216.0' Anorthosite

Relatively unaltered. Dirty greenish-grey-white. Massive. In general medium to coarse porphyrytic.
231.5' 5% core recovery. Remnants are anorthosite.
Core size changes to E.X.T.
250.0' Lightly altered, coarse, vuggy and weathered with rusty patches.
299.5' Lost core.
300.0' As above.
311.5' Lost core.
313.5' As above.
319.0' Becomes strongly altered with abundant leucoxene.
324.0' Lost core.
327.0' Coarse, relatively unaltered with coalescent texture, some patches of reversed spotted texture. A few 6" bands of black chlorite alteration.
396.0' Black chlorite alteration with phenos of plagioclase.
397.0' Lost core.
399.0' Coarse, relatively unaltered, coalescent with patches of reversed spotted texture.
1" patch of reddish carbonate at 413.0'. Disseminated pyrite.

417.6'

417.6' Altered Zone

Dark green, chlorite alteration with patches of yellow sericite. Sparsely mineralized with a few blebs of pyrrhotite.
8" reddish carbonate, mineralized with disseminated pyrite on contact to 425.0'.

425.0'

425.0' Anorthosite

Coarse with coalescent texture. Lightly sericitized and carbonitized
449.0' Lost core.
450.0' As above.

463.0'

463.0' Altered Zone

Strong green chlorite alteration with patches of recognizable anorthosite. Scattered narrow calcite veinlets throughout. Sparse leucoxene.
493.0' Becomes lightly mineralized with pyrrhotite, pyrite and sparse chalcopyrite.

500.0' Medium green, chlorite-sericite alteration. Abundant brown altered leucoxene.

515.0'

515.0' Altered Anorthosite — Strongly sericitized and chloritized with some porphytytic sections, where phenos are yellow, highly sericitized plagio.
Core recovery about 90%. Good maroon sphalerite ober 8" at 567.0'.
570.0' Less altered with phenos of white plagio in a chloritized and sericitized matrix.

576.0'

576.0' Anorthosite — Coarse with coalescent texture. Lightly altered with patches of moderately sericitization. Grades to 616.0'.

616.0'

616.0' Altered Zone — Green ,fairly massive chlorite-sericite alteration. 5-10% patchy pyrite, light chalcopyrite. Scattered patches of altered leucoxene. throughout. Abundant irregular, fine white quartz calcite veinlets.

650.0'

650.0' Ore Zone — Ankerite zone with about 25% fine to medium grained grey ankerite along schistosity, which varies from 45° at 625.0' to 70° at 665.0'.
Sparse chloritoid, 5-10% pyrite. Patchy leucoxene throughout.
665.0' Black chlorite schist with a little ankerite along 65° cn. schistosity. Core recovery about 80%.
671.5' Lost core.
673.6' As above with 5% chalcopyrite, 5% pyrite, abundant coarse ankerite.
676.5' Black chlorite schist, shearing at 65° to cn.. Less than 5% chalcopyrite, sparse pyrite.
682.0' Lost core.
683.5' Dark green chlorite alteration with 3-4% chalcopyrite, a little leucoxene and ankerite.
688.5' Lost core.
692.0' About 35% pyrite, 10% pyrrhotite, 5% chalcopyrite in a gangue of calcite, chlorite, a little ankerite.
699.0' Lost core.

700.0'

700.0' Altered Zone — Dark grey to black, chlorite-sericite alteration. Strongly sheared parallel to core. Fairly abundant brown altered leucoxene.
Good pyrite over 6" at 752.0'.
Core recovery about 70%.
765.0' Becomes grey-green, highly sericitized with sparse leucoxene. Abundant calcite veinlets at about 10o to cn.. Grades to 793.0'.

793.0'

793.0' Anorthosite — Coarse white, lightly altered with patches of grey chloritization.
5" good disseminated chalcopyrite at 849.5'.
855.0' Coarse tombstone anorthosite with matrix, altered to pink carbonate.
882.0' Texture becomes coalescent with a few lightly to moderately altered patches.

911.0'

926.0' Altered anorthosite grey

928.0'

928.0' Altered Anorthosite Grey., moderately sericitized, returning anorthosite texture. Fair chalcopyrite over 6" at 932.0'.

938.0'

938.0' Anorthosite White, coarse, slightly altered with coalescent texture. 957.5' Becomes lightly to moderately sericitized and carbonitized with patches of black alteration. Sparse leucoxene. Good chalcopyrite over 8" at 958.7'. Hole ends in 6" dark grey sericite-chlorite alteration.

1005.0'

1005.0' End of the hole.

D.D.H. T-89

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4958	617.0	625.0	8.0	0.010	0.60	0.070	0.082
4959	625.0	630.0	5.0	TR.	0.30		
4960	630.0	635.0	5.0	TR.	0.40		
4961	635.0	640.0	5.0	0.020	0.30		
4962	640.0	645.0	5.0	TR.	0.10		
4963	645.0	650.0	5.0	0.010	0.50		
4976	650.0	655.0	5.0	0.010	0.40		
4977	655.0	660.0	5.0	TR.	0.10		
4978	660.0	666.8	6.8	TR.	0.10		
4979	667.6	671.5	3.9	TR.	0.20		
4980	672.6	675.0	2.4	0.020	0.40		
4981	675.0	682.0	7.0	0.010	1.30		
4984	683.5	688.5	5.0	TR.	0.20		
4982	692.0	695.0	3.0	TR.	0.50	TR.	TR.
4983	695.0	699.0	4.0	0.100	0.80	0.020	0.104
5215	932.0	933.0	1.0	TR.	1.50		
5288	958.5	960.0	1.5	TR.	1.00		

L.D.H. T-90

Location : L12E 90'N

Started : March 7th, 1957.
Completed : March 9th, 1957.
Logged by : J. Koeno.

Dip at collar : 90°
at 50.0' : 87°30'
at 200.0' : 89°
at 366.0' : 87°30'

Core Size : A. X. T.

Length of hole : 366.3'

0.0 Casing

36.0'

36.0' Medium Grade Ore Zone
Highly altered rock, sheared at about 30° to cn.. Black chloritized. Contains patches and fissures of calcite. Mineralized with chalcopyrite and pyrrhotite.

55.0'

55.0' Highly Altered Rock Slightly more sericitized. Colour medium grey.
70.0' Alteration decreases rapidly.

76.1'

76.1' Anorthosite Relatively unaltered to very slightly altered. Indistinctly sheared to fairly massive. Pale grey matrix (sericitized) with large remnant of dirty-white feldspar-phenos. A few patches of pyrite. Texture is medium to coarse porphyrytic.

110.0'

110.0' Medium to Highly Altered Zone
First 10' contain much sericite in huge, rounded, greenish spots. Sheared at about 30° to cn., at 113.0'. At about 70° to cn., at 118.0'. Contains a few patches of pyrite, mostly accompanied with calcite.

124.2

124.2' Anorthosite as 76.1' Texture coarse porphyrytic to indistinct tombstone texture.
148.0' Texture very coarse porphyrytic, original feldspar-phenos partly altered into chlorite, while interstitial material has been replaced by mauve calcite.

149.0'

149.0' Altered Zone starting with above described texture, but alteration has gone so far, that it is better to speak of medium to highly altered anorthosite.
170.0' Colour becomes black-green, due to increasing amount of chlorit Slightly spotty appearance because of irregular, pale green-grey seric te spots. Contains a few patches of pyrite.
178.0' Slightly mineralized zone (fine grained pyrite).
183.0' End of this section. Rock still highly altered, but alteration decreases.

187.2'

187.2' Anorthosite Pale grey-green with numerous dirty-white spots, probably remnants of feldspar-phenos. Fairly massive.

203.0' A large amount of mauve calcite appears, surrounding huge, up to 2", dirty-white phenos. Contains a 10' section of relatively high chloritization from 205.0' to 214.8'.

230.5'

230.5' Very Slightly Altered Anorthosite Transition.

Pale greenish-grey. Sericitized in spots with numerous black, rounded patches of chlorite.

265.4'

265.4' Anorthosite

Relatively unaltered. First 2' perfect tombstone texture. Contains a 12" zone of high chloritization.
275.0' Rock is very fine spotted, dark green mafics in a fine grained dirty-white matrix of feldspar (alteration). Fairly massive.

314.5'

314.5' Altered Zone

as 149.0' Black chloritized. Sheared at about 10-0° to cn..
326.8' Quartz stringer at 10° to cn., to 327.8'.
333.0' Alteration decreases. Rock becomes slightly to very slightly altered. Texture becomes good visible as 275.0'.

366.3'

D.D.H. T-90

Samples and assyas taken

Sample number	Section of hole From	To	Sample Length	Gold Oz/Ton	Copper %	Nickel %	Cobal %
4351	35.7	40.0	4.3	0.010	3.00	0.050	0.03
4352	40.0	45.0	5.0	0.020	5.10	0.396	0.07
4353	45.0	50.0	5.0	0.035	1.40	0.120	0.09
4354	50.0	55.0	5.0	0.020	1.10	0.697	0.11
Agve	35.7	55.0	19.3	0.022	2.64		

D.D.H. T-91

Location : L18E 258'N

Started : March 9th, 1957.
Completed : March 12th, 1957.
Logged by : J. Koene and C. Krause

Dip at collar : 90°
at 200.0' : 89°
at 400.0' : 88°30'

Core Size : A. X. T.

Length of hole : 400.0'

0.0 Casing

153.0'

153.0' Altered Zone — Green black chloritized. Sheared at about 60° to cn.. Cut by a number ¼" calcite stringers at shearing angle. Contains a number of irregular patches of whitish carbonate and green-grey, elongated spots and fissures of sericite-carbonate-saussurite (?).
154.0' 4" mineralized rock. In general rock is slightly to medium carbonitized. The medium carbonitized zones are slifgtly more pale green in colour. Contains a few scattered patches of brown leucoxene.
244.0' From here we find a few mineralized patches, mostly chalcopyrite and pyrite at irregular speced intervals. Always in carbonitized spots or calcite stringers.
258.0' Further down no mineralat all. Sericite appears in huge, rounded yellow-green spots. Alteration seems to decrease. In general colour is more pale grey. Still sheared at about 45° to cn..

270.5'

270.5' Anorthosite — Slightly altered. Colour in general greenish-white (feldspar) with grey-black, chloritized mafics. Fairly massive. Cut by a number of irregular calcite stringers at various angles. Fairly massive to very indistinct sheared at varhous angles ro cn..
Alteration seems to increase very slightly to medium. Original anorthosite texture however still visible.
314.0' Colour changes to greenish-grey, due to increasing amount of sericite, occuring in huge rounded patches, indicating original feldspar-phenos.
351.5' Alteration decreases rapidly.
355.0' Relatively unaltered to very slightly altered anorthosite again. Colour is pale greenish-grey. Massive.
364.0' Well developed tombstone texture, very coarse phenos in places, slightly sericitized, massive. No mineral.
383.5' Texture changes to relatively medium coarse coalescing with a few very coarse scattered phenos. Contains short medium to high sericitized sections, cut by calcite and quartz stringers.

396.5'

396.5' Highly Altered Zone — Grades from above. Dark grey chloritized with pale yellowish sericite mottling, very slightly sheared at 55° to cn.. Cut by a number of very fine irregular calcite stringers. Trace scattered pyrite at 400.0'.

400.0'

400.0' End of the hole.

D.D.H. T-96

Location : L10E 85'N

Started : March 7th, 1957.
Completed : March 13th, 1957.
Logged by J. Koene.

Dip at collar : 54°
at 100.0' : 51°45'
at 300.0' : 50°30'
at 541.0' : 52°15'

Core Size : A. X. T.

Length of hole : 541.3'

0.0 Casing

38.0'

38.0' Altered Zone — Sheared at about 30° to cn.. Pale to medium grey-black chloritized rock, probably anorthosite. A few patches of chalcopyrite and pyrite. Cut by a few calcite stringers (3/4" wide) at 20-30° to cn..
53.5' Huge, rounded, green spots of sericite appear. Alteration decreases rapidly.

66.0'

66.0' Anorthosite — Dirty grey-greenish-white with numerous subhedral (up to ½") feldspar-phenos in a grey-green groundmass. Interstices have also some mauve calcite. Fairly massive to very indistinct sheared at a very small angle to cn..
At about 89.0' Rock becomes altered.

89.0'

89.0' Altered Zone — as 38.0'. Contains a few weathered sections with oxydized pyrite. Also sheared at about 30° to cn..
100.0' Start of mineralization: mixture of chalcopyrite and pyrite in patches at irregular intervals, will not make ore.
108.3' Siderite appears. Rock becomes medium mineralized making low to medium grade ore.
114.0' End of siderite and mineralization. Rock is still highly altered. Spotted with irregular pale green-grey sericite-saussurite patches. Also a few brown leucoxene.

123.5'

123.5' Anorthosite — as 66.0'. Contains a few sections (up to 3.5') of relatively high chloritized and sericitized anorthosite. Texture is predominant medium porphyrytic with zones with a rather good developed tombstone texture and interstices filled with mauve calcite.
214.0' The above mentioned distinct texture disappears. Rock becomes less coarse porphyrytic while amount of mafics decreases.
223.0' Altered, chloritized black patches appear at irregular intervals.
At about 234.0' Good tombstone texture for the next 35'.
270.5' Green chloritized zone with traces disseminated mineral. Fairly massive.
277.5' Anorthosite again. Rather good tombstone texture.
Contains narrow zones which have small, black chloritized patches and are slightly more green in colour.

		199.5'
299.5'	Altered Zone	Black chloritized. Sheared between 10-20° to cn.. Spotty, due to irregular elongated patches of sericite-carbonate-saussurite (?). Contains a barren calcite stringer for 12" at 307.3'.
		309.7'
309.7'	Anorthosite	Fresh, relatively unaltered. Good coarse tombstone texture. Fairly massive.
		358.0'
358.0'	Altered Zone	Black, chloritized. Fairly massive. Contains large, irregular grey-green spots of sericite and carbonate and dirty grey-white remnants of feldspar-phenos (?). Probably anorthosite.
		372.8'
372.8'	Anorthosite	as 309.7'. Contains a few narrow sections which are relatively medium to highly altered. Fairly massive.
		380.0'
380.0'	Altered Zone	Large, subhedral black spots, probably highly chloritized remnants of original phenos in a fine grained dirty white interstitial groundmass with greenish centre. Indistinct sheared at about 25-30° to cn..
		399.5'
399.5'	Anorthosite	as 372.8'. Irregular, small patches of green, chloritized mafics, give a spotty appearance. Texture is medium to coarse porphyrytic. Contains a 24" sections ofrelatively higher alteration. (black chloritized). Contains a few narrow highly altered sections, mostly bordering a calcite stringer. Sections with tombstone texture alternate with zones of more indistinct porphyrytic appearance.
		491.5'
491.5'	Altered Zone	Black (chloritized) original texture not visible, but probably anorthosite. Fairly massive. Cut by a few calcite stringers at various angles. Sharp upper contact at about 15° to cn..
		502.0'
502.0'	Anorthosite	as 399.5'. Relatively unaltered to very slightly altered. Rather sharp contact with foregoing altered rock at about 15° to cn.. Coalescing texture to indistinct coarse porphyrytic. Bluish-black in spots.
		541.3'
541.3'	End of the hole.	

D.D.H. T-96

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4366	100.0	105.0	5.0	0.055	0.40	TR.	0.098
4367	105.0	109.0	4.0	0.075	0.40	TR.	0.374
4368	109.0	111.5	2.5	0.920	3.70	0.020	0.398
4369	111.5	115.0	3.5	0.045	0.30	NIL	0.048
Agve	100.0	115.0	15.0	0.200	0.93		

D.D.H. T-97

Location : L21E 256'N

Started : March 10th, 1957.
Completed : March 16th, 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at 250.0' : 88°
at 725.0' : 85°
at :

Core Size : A. X. T.

Length of hole : 725.0'

0.0 Casing

132.0'

132.0' Anorthosite — Grey, coarse porphyrytic, very lightly altered. Plagioclase. Fairly fresh.
160.0' Becomes carbonitize, sericitized with patches of black chloritic alteration up to 2' in core length. Altered patches amount to about 20%.

251.0'

251.0' Altered Zone — Medium green, sericite, chlorite alteration. Moderately carbonitized with irregular patches of glassy grey quartz. Patchy chalcopyrite over 2" at 259.0'.
265.0' Becomes strongly sheared at 40-50° to cn.. Few patches of coarse siderite from 269.0' to 270.0'.
Good disseminated chalcopyrite in 4" grey quartz at 273.0' [illegible].
275.0' Becomes mineralized with 15-20% pyrite-pyrrhotite along 45° schistosity. Has a strongly banded appearance, due to sericite-carbonate along schistosity.
305.0' Mineralization is slight, banding disappears, rock becomes a uniform chlorite sercite schist. Rather sparse brown carbonate after leucoxene. Core recovery about 70%.
321.0' 4' lost core.
325.0' Lighter green, more massive chlorite sericite carbonate schist. Schistosity at 45-55° to cn.. Poorly mineral with pyrrhotite and pyrite.

345.0'

345.0' Altered Anorthosite — Light green, moderately sericitized, chloritized and carbonatized. Original anorthosite texture visible in places with some porphyrytic patches. Scattered crystals of brown carbonate after leucoxene. Sparsely mineral with pyrrhotite, chalcopyrite and pyrite.
369.0' 4' lost core.
373.0' As above with veinlets and patches of pink calcite. Plagio entirely altered to sericite-carbonate. Lightly mineralization with pyrite, chalcopyrite and pyrrhotite.
403.0' Less altered, grey with coalescent texture, a few porphyrytic patches. Matrix is chloritized, in places replaced by mauve calcite.
448.0' Very coarse, relatively unaltered.
473.0' Same but with irregular patches of dark chlorite alteration. Sheared at 90° to cn..
490.0' Coarse tombstone anorthosite, relatively unaltered.
512.0' Coarse with matrix altered to pink calcite.

Some crystals of leucoxene in matrix. Very sparsely mineralized with fine pyrite.
522.0' Relatively unaltered with pink calcite in places, occasional patch of pyrite.
2" vein of dark mauve carbonate mineral with pyrrhotite, sparse chalcopyrite at 558.0'.
Irregular vein of a black mineral with very fine disseminated pyrrhotite at 559.0'. Possibly sphalerite.
Irregular 4-6" veins of dark reddish brown carbonate from 560.0' to 562.0'.
562.0' Very coarse unaltered.
1' patch of reversed texture at 569.0'.
Matrix replaced by calcite in places, giving a coarse spotted texture
665.0' Becomes more uniform, less altered, coarse grained with fairly distinct texture.
710.0' Texture becomes coalescent. More sericitization.
1' dark chlorite sericite alteration at 717.0'.

725.0'
725.0' End of the hole.

D.D.H. T-92

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Zinck %
4651	275.0	280.0	5.0	0.010	0.30	
4652	280.0	285.0	5.0	0.010	0.20	
4653	285.0	290.0	5.0	0.010	0.30	
4654	290.0	295.0	5.0	0.010	0.30	
4655	295.0	300.0	5.0	0.020	0.70	
4656	300.0	305.0	5.0	0.070	0.30	
4657	305.0	310.0	5.0	0.010	0.50	
4658	310.0	315.0	5.0	TR.	0.40	
4659	315.0	321.0	6.0	TR.	0.30	
4660	325.0	330.0	5.0	0.010	0.30	
4616	330.0	335.0	5.0	TR.	0.50	
4662	335.0	340.0	5.0	TR.	0.40	
4681	558.0	562.0	4.0	TR.	NIL	TR.

D.D.H. T-93

Location : L19E 121'S

Started : March 8th, 1957.
Completed : March 11th, 1957.
Logged by : J. Koene and E. Vollo.

Dip at collar : 90°
at : Not available
at :

Core Size : A. X. T.

Length of hole : 392.0'

0.0 Casing

145.0'

145.0' Anorthosite — Relatively unaltered to very slightly altered. Massive to indistinct sheared at about 50° to cn.. Spotty texture, due to slightly chloritized, irregular spots of mafics. Colour is somewhat greyish. Contains several narrow altered zone. Alteration increases very slightly, but rock is never more but very slightly to slightly altered. In general very slightly carbonitized. Grades abruptly to 307.0'.

307.0'

307.0' Altered Zone — Pale grey-green sericite-carbonate alteration, cut by numerous ¼-1" calcite stringer, roughly at 20° to cn.. Shows occasional ghost phenocrysts of plagioclase, now sericite-carbonate. Scattered patches of leucoxene and brown carbonate throughout.
327.0' Lightly altered, porphyrytic section with good plagio phenocrysts now altered to calcite.
340.0' Dark chlorite schist, riddled by about 50% sericite-carbonate mostly along 60° to cn.. schistosity.
10-15% pyrite, chalcopyrite and pyrrhotite over 2' begins at 341.0'
362.0' Grey quartz vein zone with a little chlorite, calcite, occasional small patch chalcopyrite. Irregular ½" siderite veinlet at 367.0'. Contact at 60° to cn..
373.0' Green chlorite zone, mineralized with 5-10% pyrite, pyrrhotite sparse chalcopyrite.
387.0' Coarse grey quatz vein, with sparse pyrite and chalcopyrite.

392.0'

392.0' End of the hole (Hole lost).

D.D.H. T-98

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4708	360.0	365.0	5.0	TR.	0.10		
4709	365.5	370.0	5.0	TR.	0.10		
4710	370.0	375.0	5.0	0.020	0.40		
4711	375.0	380.0	5.0	0.020	0.40	0.050	0.038
4712	380.0	386.6	6.6	0.020	0.30	0.050	TR.
4713	386.6	392.4	5.4	0.010	0.10		

D.D.H. T-105

Location : L20E 23'N

Started : March 13th, 1957.
Completed : March 23rd, 1957.
Logged by : N. Vollo and G. Allard.

Dip at collar : 90° Azim:
at 150.0' : 89° " : N 78° W
at 300.0' : 88° " : N 86° W
at 600.0' : 85° " : S 66° E

Core Size : A.X.T.

Length of hole : 709.0'

0.0 Casing

135.0'

135.0' Anorthosite — Fresh, unaltered, coarse with a few phenocrysts of plagioclase in a coalescing matrix.
165.6' Strong chlorite-sericite alteration with a little pyrrhotite.
167.0' Grey, lightly sericitized and carbonitized. Fairly coarse porphyrytic.
201.5' Dark, chlorite-sericite alteration. No mineral.
203.5' Fresh with coalescent texture.
222.0' Becomes coarse with some very coarse plagio-phenos. Grades to 232.0'

232.0'

232.0' Altered Anorthosite — Pale grey, green strongly sericitized, carbonitized, spars mauve leucoxene.
Lightly mineralized with occasional patchy pyrite and pyrrhotite.
Blocked core to 278.0'.

278.0'

278.0' Altered Zone — Black chlorite alteration, riddled with fine irregular grey-green sericite carbonate.
291.0' Becomes a highly fissile chlorite schist, 60-65° to cn., with sericite-carbonate streaks along schistosity.
298.0' 1' lost core.
299.0' As above, but with 5% pyrite.
305.0' Glassy grey quartz vein. No mineral. Some coarse ankerite.
308.0' Coarse grey ankerite mineral with 10% pyrite, less than 5% chalcopyrite. 60° cn. contact to 310.0'.
310.0' Dark grey, fissile chlorite schist with about 30% grey carbonate (ankerite) along schistosity. Scattered crystals of brown altered leucoxene. Fairly sharp contact to 313.0'.

313.0'

313.0' Ore Zone — About 15% pyrite, less than 5% chalcopyrite in a gangue of ankerite, calcitem siderite and chlorite. Chloritoid is present in chlorite sections.
2" patch of coarse siderite at 319.0'.
320.0' Good grade ore with 5-10% chalcopyrite, 20% pyrite, 20% pyrrhotite in a quartz gangue with a little ankerite and calcite.
326.0' Low grade ore with 15-20% pyrite, 5% pyrrhotite, sparse chalcopyrite in a dark green chlorite schist.

334.0' High grade ore with about 60% total sulphides in essentially a grey quartz gangue with patches of green chlorite schist. About 30% pyrite, 20% chalcopyrite, 10% pyrrhotite.
345.0' Green chlorite schist, 55° cn, mineralized with about 30% pyrite, light chalcopyrite and pyrrhotite.
Sharp 45° cn contact to 348.5'.
348.5' Grey quartz-calcite with 1% pyrite, 5% pyrrhotite.
350.0' Dark, grey-green chlorite schist, well sheared and lineated at 45-50° to cn. with fine calcite banding parallel to shearing in places 10-15% pyrite and traces chalcopyrite in streaks parallel to shearing. Contains a few short cream coloured, highly sericitized patches and in places the coarse texture of anorthosite but with black chloritic phenos is recognizable. Some scattered brown leucoxene.
377.5' As above but mineralization decreases to less than 5% pyrite and traces chalcopyrite.
421.5' As above but mineralisation increases to 10-15% pyrite, traces chalcopyrite in irregular streaks and patches. Lineation and shearing have decreased to slight. Contains numerous, fine, irregular calcite stringers and patches.
431.0' Zone becomes predominantly dark grey to black, highly chloritized with a number of short grey-green chloritized sections. The dark grey to black parts often display coarse elongated phenos with pale grey carbonitized interstices. Lineation and shearing are medium. 50-55° to cn.. Cut by numerous fine calcite stringers and carbonitized streaks at all angles. About 15% pyrite, chalcopyrite. Probably fine chalcopyrite has increased slightly.
10" chlorite, grey carbonitized zone with fairly hard black fragments at 447.6', 30-40% pyrite.
469.7' Mineralization increases to about 30%, is concentrated in a number of carbonitized, brecciated zones as at 447.6' with sharp contacts. Mineral is mostly pyrite with little pyrrhotite and traces chalcopyrite.
477.0' Green chlorite schist with patches of black chlorite. Sparse brown altered leucoxene. Mineralized with 10-15% pyrite, 5% pyrrhotite and sparse chalcopyrite.
498.0' Medium grey-green chloritic alteration with a brecciated appearance. Slightly silicified, moderately carbonitized. Mineralization with less than 5% chalcopyrite as scattered fine stringers and patches. 5% pyrite, less pyrrhotite. 50° cn. contact to 536.0'.
536.0' Grey quartz breccia, very little mineral.
540.0' Green, strongly silicified, chlorite schist with patches of grey silicification.
Irregular 2" quartz-calcite stringer at 540.5' with coarse patches of maroon sphalerite.
550.0' Grey with considerable carbonate. Lightly mineralized with pyrrhotite and chalcopyrite. Sharp change to 556.0'.

556.0' Altered Zone

556.0'

Strong, dark grey-green chlorite alteration. Massive with numerous ½-1" calcite veinlets.
575.0' Black chlorite alteration, riddled by about 60% pale green sericite-saussurite. Grades to 588.5'.

588.5'

588.5' Altered Anorthosite

Moderately altered with phenos of plagio ina sericitized and chloritized matrix.
629.0' More grey in colour, more altered with patches of reversed porphyrytic texture. 1-3' band of black chlorite alteration at 630.5'. containing a 2" quartz-calcite vein with blebs of chalcopyrite.
652.0' Grey. lihgtly to moderately altered with scattered white plagio phenos in a sericitized and chloritized matrix.
693.0' Moderately altered, dark grey with black phenocrysts (reversed texture).
9" quartz-calcite vein at 45° cn. at 703.5' with one coarse bleb chalcopyrite.
707.0' Grey-green, lightly altered with some tendency to reversed texture.

709.0'

709.0' End of the hole.

D.D.H. T-105

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4854	300.0	305.0	5.0	0.010	TR.		
4855	305.0	308.0	3.0	0.010	0.10		
4856	308.0	310.0	2.0	0.030	0.40		
4857	310.0	313.0	3.0	0.010	0.10		
4858	313.0	320.0	7.0	0.055	0.80	0.020	0.320
4859	320.0	325.0	5.0	0.120	2.10	0.120	0.410
4860	325.0	330.0	5.0	0.060	0.50	0.250	0.098
4861	330.0	334.0	4.0	0.030	0.80	0.070	0.172
4862	334.0	340.0	6.0	0.235	3.80	0.140	0.290
4863	340.0	345.0	5.0	0.245	5.40	0.040	0.320
4864	345.0	350.0	5.0	0.020	0.50	0.070	0.082
4866	350.0	375.0	25.0	0.010	0.60	0.120	0.046
4867	375.0	377.5	2.5	0.010	0.40	0.050	0.050
4868	377.5	382.5	5.0	0.010	0.20		
4869	382.5	387.5	5.0	0.010	0.50		
4870	387.5	392.5	5.0	0.010	0.30		
4871	392.5	397.5	5.0	0.010	0.40		
4872	397.5	402.5	5.0	0.010	0.40		
4873	402.5	407.5	5.0	0.010	0.40		
4874	407.5	412.5	5.0	TR.	0.20		
4875	412.5	417.5	5.0	TR.	0.30		
4876	417.5	422.5	5.0	0.020	0.30		
4877	422.5	427.5	5.0	0.010	0.60		
4878	427.5	432.5	5.0	0.010	0.80		
4879	432.5	437.5	5.0	0.015	0.80		
4880	437.5	442.5	5.0	TR.	0.40		
4881	442.5	447.5	5.0	0.010	0.40		
4882	447.5	452.5	5.0	0.010	0.40	0.313	0.108
4883	452.5	457.5	5.0	0.010	0.40	TR.	0.044
4884	457.5	462.5	5.0	0.010	0.30		
4885	462.5	469.7	7.2	0.020	0.60		
4886	469.7	475.0	5.3	0.015	0.60	0.387	0.160
5051	475.0	477.0	2.0	0.015	0.70	0.941	0.210
5052	477.0	480.0	3.0	TR.	0.20	0.100	0.058
5053	480.0	485.0	5.0	0.020	0.40	0.180	0.090
5054	485.0	490.0	5.0	0.010	0.10		
5055	490.0	497.5	7.5	0.030	0.30		
5056	497.5	500.0	2.5	0.0225	3.10		
5057	500.0	505.0	5.0	0.020	1.50		
5058	505.0	510.0	5.0	0.030	1.00		
5059	510.0	515.0	5.0	0.090	1.90		

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5060	515.0	520.0	5.0	Tr.	0.30		
5061	520.0	525.0	5.0	0.010	0.40		
5062	525.0	530.0	5.0	0.020	0.80		
5063	530.0	536.0	6.0	0.020	0.70		
5064	536.0	540.0	4.0	0.020	0.10		
5065	540.0	545.0	5.0	0.015	0.40		
5066	545.0	550.0	5.0	0.030	0.30		
5068	550.0	556.0	6.0	0.010	0.30		
Avge	313.0	377.5	64.5	0.068	1.40	0.104	0.160
	320.0	345.0	25.0	0.146	2.64		
	469.7	477.0	7.3	0.014	0.63	0.340	0.170
	497.5	515.0	17.5	0.043	1.70		

D.D.H. T-106

Location : L21E 343'N

Started : March 13th, 1957.
Completed : March 18th, 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at 175.0' : 88°
at 250.0' : 87°
at 380.0' : 86°

Azimuth at 250.0' : S18°30'W
at 380.0' : S70°30'W

Core Size : A.X.T.

Length of hole : 517.5'

0.0 Casing

139.0'

139.0' Altered Anorthosite

Medium green, moderate sericite, chlorite alteration with some remants of anorthosite.
145.0' Less altered, showing good anorthosite texture with a few interstitial patches of leucoxene.
152.0' Strong, dark sercite, chlorite alteration cut by irregular fine calcite stringers. Some patches of moderate alteration with patches of coarse pink carbonate.

167.5'

167.5' Anorthosite

Lightly altered, sericitized and carbonitized with matrix in places replaced by pink calcite. Fairly abundant crystals of leucoxene.
190.5' Dark green chlorite alteration. Some patches of brown carbonate cut by a few ¼-1", 10-20° to cn. quartz-calcite stringers.
193.5' Grey, moderately sericitized and carbonitized but retaining texture. Grades to 218.0'.

218.0'

218.0' Altered Zone

Moderately chloritized and sericitized with patches of yellow sericite. Scattered calcite stringers.
225.0' Dark green strongly chloritized with abundant fine leucoxene. Irregular quartz-calcite veinlets throughout.
2' lost core at 230.0'.
Good chalcopyrite over 4" in calcite ankerite stringer at 251.0'.
254.0' 1' lost core.

255.0'

255.0' Ore Zone

Ankerite, pyrite zone. About 30% sulphides with 25% pyrite, 5% chalcopyrite and pyrrhotite. Zone is strongly banded at 45-55° to cn., due to alternating bands of pyrite, ankerite and chlorite. Sharp change to 274.0

274.0'

274.0' Altered Zone

Strong sericite, chlorite schist with well defined 45-35° to cn. schistosity. 5" ankerite at 280.2'. Lightly mineralized by a few stringers of pyrite, chalcopyrite along schistosity.
294.2' 1.5' lost core.
295.7' Becomes more sericitic with talc along some fractures. Grades into 306.0'.

306.0'

306.0' Anorthosite — Coarse to very coarse porphyrytic. Relatively unaltered. A few patches of brown carbonate leucoxene in matirx. Very sparsely mineralized with a few grains pyrite.
384.0' Coarse tombstone texture. Relatively unaltered with minor 6-8" moderately altered sections. Very sparse pyrite. Sparse brown carbonitized leucoxene.
402.0' Same, but matrix is partially replaced by pink calcite. No mineral. Scattered 2-5 mm. crystals of leucoxene.
425.0' Coarse tombstone anorthosite, matrix replaced or altered to calcite.

439.8'

439.8' Altered Zone — Chlorite schist dark green with 65° to cn. schistosity. No mineral.

444.5'

444.5' Anorthosite — Medium to coarse. lightly altered with coalescing texture.

450.0'

450.0' Altered Anorthosite — Dark grey-green chlorite, sericite, carbonate alteration with remnants of anorthosite. Very sparse mineral with pyrrhotite, pyrite and chalcopyrite.
473.5' Moderately altered, sericitized, carbonitized with patches of darker chloritic alteration.

489.0'

489.0' Anorthosite — Coarse with patches of tombstone texture in which matrix is altered to calcite. Alteration is light.

517.5'

517.5' End of the hole.

D.D.H. T-106

Samples and assyas taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
4550	190.0	194.2	4.2	0.010	0.60
4597	250.0	254.0	4.0	0.010	0.20
4598	254.0	260.0	6.0	0.010	0.30
4599	260.0	265.0	5.0	0.020	1.50
4600	265.0	270.0	5.0	0.010	0.50
4750	270.0	275.0	5.0	0.010	0.70
4498	275.0	280.0	5.0	0.010	0.10
4499	280.0	285.0	5.0	0.045	0.10
4500	285.0	290.0	5.0	0.010	0.30
Avge	250.0	290.0	40.0	0.016	0.465

D.D.H. T-107

Location : L22E 312'N

Started : March 13th, 1957.
Completed : March 21st, 1957.
Logged by : N. Vollo and J. Koene.

Dip at collar : 90°
at 150.0' : 90°
at 350.0' : 87°30'
at 594.0' : 85°

Core Size : A.X.T.

Length of hole : 594.0'

0.0 Casing

118.0'

118.0' Anorthosite — Grey, lightly sericitized and carbonitized with abundant fine leucoxene in matrix.
A few narrow patches of black chloritic alteration from 120.0' to 135.0'.
173.0' Lost core.
175.0' As above.
181.0' Lost core.
185.0' As above but with a vuggy, weathered appearance.
188.0' Lost core.
190.0' As above.

192.0'

192.0' Altered Anorthosite
Green, moderately chloritized, sericitized. Core is rotten and vuggy, possibly weathered.
194.0' Lost core.
197.0' As above with some iron staining.
207.0' Lost core.
209.0' Green, chloritized with abundant brown carbonate-leucoxene. Core rusty and weathered.
212.0' Grey, moderately altered with reversed porphyrytic texture. Sparse brown carbonitized leucoxene. Scattered 1/8-1/2" quartz-calcite veinlets throughout.

248.0'

248.0' Altered Zone — Dark grey, sericitized carbonitized and chloritized with patches of faintly recognizable anorthosite.
Sparsely mineralized with a few grains pyrrhotite and pyrite.
275.0' Same but more sericitized. Core recovery about 85%. No spacers used.
295.0' Becomes dark green with chlorite dominant. Lightly mineralized with chalcopyrite and pyrrhotite. Irregular schistosity at 70-80° to cn.. Fairly abundant brown carbonitized leucoxene.

338.3'

338.3' Ore Zone — About 35% sulphides, pyrite, pyrrhotite and chalcopyrite in a chlorite carbonate gangue.
High Grade Ore.
343.0' Strong chlorite schist with 50-55° to cn.schistosity. About 20% sulphides as irregular stringers with some sections of massive pyrite over 1'. Less than 5% chalcopyrite, occasional fine stringers of red sphalerite in better mineralized sections.

367.0'

367.0' Altered Zone — Green, chlorite schist with pronounced 55° cn. schistosity, sparsely mineralized with pyrite and pyrrhotite.
Becomes more sericitic at about 378.0' and grades into 393.0'.

393.0'

393.0' Anorthosite — Coarse grained, porphyrytic, lightly sericitized with fairly abundant altered leucoxene.
415.0' Becomes moderately sericitized with abundant brown altered leucoxene. Grades into 422.0'

422.0'

422.0' Altered Zone — Dark grey-green, sericitic alteration with abundant, irregular calcite stringers. Abundant coarse brown, altered leucoxene, some fresh mauve leucoxene.
437.0' a 3' calcite-quartz-tremolite stringer. Irregular contacts. Contains a few mineralized patches (pyrite).

453.0'

453.0' Altered Anorthosite
Alteration decreases. Texture of a porphyrytic anorthosite becomes visible.
462.0' a 3" barren quartz stringer followed by 5" calcite stringer.

463.0'

463.0' Anorthosite — Relatively unaltered. Coarse tombstone texture. Massive. Interstices filled with greyish, chloritized mafics and mauve calcite. Contains several zones which are very slightly to slightly altered, but in general rock is relatively unaltered.

594.0'

594.0' End of the hole.

D.D.H. T-107

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4851	295.0	300.0	5.0	0.010	0.40		
4816	330.0	335.0	5.0	0.010	0.10		
4817	335.0	339.3	4.3	TR.	0.10		
4818	339.3	343.0	3.7	0.055	3.00	0.030	1.160
4819	343.0	350.0	7.0	0.030	0.30	TR.	0.092
4820	350.0	355.0	5.0	0.025	0.70	0.103	0.066
4821	355.0	360.0	5.0	0.030	0.70	TR.	0.820
4822	360.0	362.5	2.5	0.110	0.40	TR.	0.214
4823	362.5	368.0	5.5	0.015	0.20	0.020	0.042
4824	368.0	375.0	7.0	TR.	0.20		
Avge	339.3	362.5	23.2	0.041	0.91		0.427

D.D.H. T-108

Location :L19W 34+75S

Started : March 13th, 1957.
Completed : March 19th, 1957.
Logged by : J. McCrae.

Dip at collar : 90°
at 175.0': 88° Azimuth: N73°W
at 400.0': 85° Azimuth : S82°30'W
at 600.0': 82° Azimuth : S73°W

Core Size : A.X.T.

Length of hole: 772.0'

0.0 Casing

152.0'

152.0' Anorthosite — Relatively unaltered. Massive. Pale dirty grey. Coarse porphyrytic. Interstices filled with medium grey-black, chloritized mafics and some mauve calcite. Contains a 18" sections which is highly chloritized, black sharp bouderies at 70° to cn..

206.0'

206.0' Altered Anorthosite
Slightly altered, original texture very good visible. Same medium, coarse porphyrytic texture. Massive.
220.0' Fairly massive.

220.0'

220.0' Altered Zone — Probably anorthosite, but the texture is not recognizable. Colour is hard dark green. Cut by several calcite stringers up to ¼". Numerous small patches of brown leucoxene. Abundant, small, greyish, rounded spots of carbonate.
255.0' Rock becomes pale grey, because of the predominance of sericite. Contains a few sections, about 12" long, of brown, slightly weathered rock (limonite).
275.0' Colour is black. Spotty, due to irregular, elongated, grey-green patches of sericite-saussurite. Rock is medium sheared at about 45° to cn.. Some weathered pyrite in oxydized stringers at 45° to cn..

284.0'

284.0' Low Grade Ore — Start of long mineralized quartz zone. Mineralized in spots (chalcopyrite) Contains also a few patches and narrow zones of highly altered rock (chlorite). Also a few blebs of well developed course grained siderite crystals. Enclosed patches and zones of highly chloritized rock are rich in fine grained pyrite, carbonate (siderrite?) and euhedral chloritoid.
314.5' End of quartz vein. Rock remains highly siliceous and well mineralized with almost massive fine grained pyrite. Also lots of grey carbonate (ankerite?).
322.5' Abundant chloritoid.
332.0' Mineralization decreases rapidly.

332.0'

332.0' Highly Altered Slightly Mineralized Rock

Colour is pale greenish, probably still some chloritoid , but not visible.
354.0' More chlorite appears. Colour becomes more black-green . Still sheared,at about 60° to cn. now. Numerous small patches of brown leucoxene appear.
402.0' Sericite-carbonate become predominant. Slight increase of mineralization but no ore.Mostly pyrite. Rock seems to be sheared at about 60° to cn..
423.0' Colour changes to black. Texture is spotted, due to irregular elongated patches of sericite-saussurite. Shearing now at 30° to cn.. Contains a few patches of pyrite. Cut by a number of parallel calcite stringers at shearing angle.
443.5' 12" heavy mineralized zone. Almost massive, medium grained pyrite. Numerous fine patches of brown leucoxene.
494.5' Colour pale to medium grey. Sericite-saussurite-carbonate predominant. Contains a few mineralized patches, mostly pyrite. Also a few blebs of chalcopyrite.

507.0'

507.0' Low Grade Ore

Same kind of rock, but now more mineral. Mostly fine grained pyrite. Strong increase of the amount of carbonate.
543.6' Mineralized quartz-calcite stringer. Calcite is predominant.
564.9' End of this quartz stringer. Sharp lower contact at about 20° to cn..

564.9'

564.9' Highly Altered Rock again, as 332.0'. Contains much carbonate in parallel bands and fissures showing linsation at about 30° to cn..
574.1' Section which consists mainly of hard green chlorite, spotted with numerous tiny, white calcite patches.

583.5'

583.5' Altered Anorthosite

Medium grey to blueish-black. Medium porphyrytic texture. Probably highly zoisitized. Massive. Contains zones which show a coalescing texture.
629.0' Change in colour to blackish-blue. Rock looks fresh at fracture shining cleavage planes in the feldspar. Rock becomes unaltered.

629.0'

629.0' Black Anorthosite

Relatively unaltered, blue-black. Massive. Contains a few sections of relatively high degree of chloritization. Unaltered parts are probably highly zoisitized.

692.5'

692.5' Anorthosite

Greenish white, massive. Unaltered. Medium porphyrytic. Interstices filled with chloritized mafics and mauve calcite.

772.0'

772.0' End of the hole.

D.D.H. T-108

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4634	283.0	288.0	5.0	0.010	1.30		
4635	288.0	293.0	5.0	TR.	2.80	0.090	0.146
4636	293.0	298.0	5.0	TR.	0.40		
4637	298.0	303.0	5.0	TR.	0.20		
4638	303.0	308.0	5.0	0.0225	0.10		
4639	308.0	313.0	5.0	0.010	0.30		
4640	313.0	318.0	5.0	0.0275	0.20		
4641	318.0	323.0	5.0	0.010	0.10		
4642	323.0	328.0	5.0	0.010	0.20		
4643	328.0	333.0	5.0	0.0175	0.20		
4644	333.0	343.0	10.0	TR.	0.30		
4645	343.0	348.0	5.0	0.010	0.20		
4646	348.0	353.0	5.0	0.010	0.30		
4647	353.0	363.0	10.0	0.010	0.30		
4648	363.0	373.0	10.0	TR.	0.20		
4649	373.0	378.0	5.0	TR.	0.10		
4650	378.0	388.0	10.0	0.010	0.10		
4786	405.0	407.5	2.5	0.060	1.10		
4787	443.0	445.0	2.0	0.030	0.70		
4788	445.0	447.0	2.0	TR.	0.20		
4789	494.0	497.0	3.0	0.010	0.40		
4790	497.0	502.0	5.0	0.010	0.30		
4791	502.0	507.0	5.0	0.010	0.30		
4792	507.0	510.0	3.0	0.010	0.90		
4793	510.0	515.0	5.0	0.010	0.30		
4794	515.0	520.0	5.0	0.010	0.30		
4795	520.0	525.0	5.0	0.010	0.50		
4796	525.0	530.0	5.0	0.010	0.20		
4797	530.0	535.0	5.0	0.0175	0.50		
4798	535.0	540.0	5.0	0.025	0.50		
4799	540.0	545.0	5.0	0.0225	0.30		
4800	545.0	550.0	5.0	0.020	0.20		
4808	550.0	552.0	2.0	0.025	0.30	0.426	0.042
4809	552.0	555.0	3.0	0.010	0.20		
4810	555.0	560.0	5.0	0.030	0.40		
4811	560.0	562.5	2.5	TR.	0.20		
4812	562.5	565.5	3.0	0.025	2.00	0.379	0.035
4813	656.5	570.0	4.5	0.020	0.40		
4814	570.0	575.0	5.0	0.010	0.50	0.120	NIL
4815	575.0	580.0	5.0	0.010	0.60	0.080	TR.
Avge	283.0	293.0	10.0		2.05		
	507.0	580.0	73.0	0.015	0.46		
	562.5	570.0	7.5	0.022	1.04		

D.D.H. T-109

Location : L10E 253'N

Azimuth : 0°

Dip at collar : 50°
at 150.0' : 46°
at 300.0' : 48°
at 500.0' : 48°

Core Size : A.X.T.

Length of hole : 623.0'

Started : March 17th, 1957.
Completed : March 22nd, 1957.
Logged by : J. Koene and N. Vollo.

0.0 Casing

110.5'

110.5' Anorthosite — Relatively unaltered. Massive. Texture is coarse porphyrytic. Good tombstone texture in spots. Contains narrow sections with coalescent texture. A few patches of yellow-brown leucoxene. Grades into 191.0'.

191.0'

191.0' Black Anorthosite

Coarse, dark grey with reversed porphyrytic texture with feldspar being dark grey, partly chloritized.
Matrix is white to yellow-green, sericite-saussurite-carbonate.
Contains sections which are weathered, brownish-white with a few scattered spots of malachite.
From 260.0' we find a number of zones of lost core. Probably all of it was weathered rock. Rock is in general unaltered, but dark in colour, due to mineral composition. Highly to medium sericitized in places and a number of patches of mauve calcite.
Contains also a few zones of whitish, fresh looking anorthosite with a coarse porphyrytic texture. Interstices are slightly chloritized or filled with mauve calcite. Core is cut by a few very narrow (1-2") sections of black, highly altered rock.

347.0'

347.0' Anorthosite — Slightly altered. Greyish-white in colour. Texture is coarse porphyrytic. Massive. Contains a few zones of black anorthosite.
374.0' A 7' highly chloritized zone containing a 3" weathered section.
418.0' 2" of fine grained sphalerite in a narrow zone of relatively high alteration.

469.0'

469.0' Altered Zone — Massive, black chloritized spots in greenish-grey matrix.

500.3'

500.3' Altered Anorthosite

Especially interstices contain altered material. Rock looks greyish. Cut by a few, narrow zones of high chloritization. Contains also several zones which are not altered but sark in colour, due to mineral composition.

518.0'

518.0' Anorthosite — Unaltered. Massive. Starts with 15' of black anorthosite, grading over into grey anorthosite. Coarse porphyrytic in texture. Sometimes indistinct.

623.0'

623.0' End of the hole.

D.D.H. T-110

Location : L28E 00'
Azimuth : 0°
Dip at collar : 54° Azimuth:
at 400.0' : 54° " : N0°30'E
at 850.0' : 55° " : N15°E

Started : March20th, 1957.
Completed : April 2nd, 1957.
Logged by : J. Koene.
N. Vollo.

Core Size : A.X.T.

Length of hole : 1064.0'

0.0 Casing

200.0'

200.0' Anorthosite — Completely weathered. Mostly kaolinized. Very soft, whitish matrix with euhedral crystals of mafics. Probably massive.
235.0' 12" quartz brecciated rock with hematite, limonite and chalcopyrite.
236.0' From here only weathered spots. Slightly altered anorthosite. Fairly massive. Grey in colour. Porphyrytic in texture. Contains some oxydized pyrite in narrow weathered patches. Remains slightly altered down the hole with only a few narrow sections of medium alteration.

419.0'

419.0' Altered Zone — Sharp contact at about 60° to cn.. Black-green chloritized with abundant small, irregular spots of sericite-saussurite. Cut by a number of irregular calcite stringers at various angles. Fairly massive. Contains long zones which are relatively unaltered. In fact there is altered and unaltered rock in equal amounts.

502.5'

502.5' Anorthosite — Relatively unaltered. Massive. 90% feldspar or more. Irregular shaped feldspar forms phenos between the slightly sericitized interstitial matrix. Contains a few, narrow, grey (chloritized-sericitized) sections of relatively slight alteration.

558.0'

558.0' Altered Anorthosite — Massive. Relatively medium to highly altered. Grey in colour. In spots and narrow zones no texture visible, but contains sections of relatively slightly to medium altered anorthosite. with same texture as 502.5'. Especially the more altered parts are cut by irregular calcite stringers at various angles.

618.0'

618.0' Altered Zone — Highly sericitized, changing to highly chloritized at 122.5'.
1' quartz-calcite vein with brown sphalerite at 621.5'.
622.5' Highly chloritized, massive, mineralized with patchy pyrrhotite, sparse chalcopyrite. Brown sphalerite.

643.0'

643.0' Altered Anorthosite — Highly sericitized and chloritized with patches of recognizable anorthosite. Abundant brown leucoxene. Grades to 653.0'.

653.0'

653.0' Anorthosite — Lightly to medium sericitized with white plagio-phenos in a grey matrix. Grades to 700.0'.

700.0'

700.0' Altered Zone — Very highly sericitized with abundant pink leucoxene. Scattered, irregular quartz-calcite stringers throughout.
Good pyrrhotite-pyrite over 2" at 732.0'.

735.0'

735.0' Altered Anorthosite — Grey, moderately sericitized with texture largely destroyed. Patchy pink leucoxene.

744.0'

744.0' Anorthosite — White, lightly sericitized with coalescent texture. Contains a few narrow zones which are highly sericitized and show no distinct texture. Also sections of relatively highly alteration but in general rock remains relatively unaltered and massive.
894.0' Same but texture becomes porphyrytic with coarse white plagio phenos in a green lighlty altered matrix.

950.0'

950.0' Altered Anorthosite — Moderately chloritized with abundant remaining plagio-phenos. Grades into 981.0'.

981.0'

981.0' Altered Zone — Dark green chlorite alteration, sheared atabout 85° to cn. with patches of pink leucoxene, light patchy pyrite. Scattered pyrite appears at 991.0'.
1002.5' Rock becomes slightly mineralized. Magnetite is predominant, occuring in a calcite matrix with chalcopyrite and pyrite.
1017.5' End of mineralization. Rock remains highly altered. Sericite probably predominant. Indistinctly sheared at about 30° to cn..

1024.5'

1024.5' Altered Anorthosite — Massive. Medium grey,medium to highly altered. Texture porphyrytic, but hardly recognizable for the first 12'. After that, decreasing alteration.

1062.5'

1062.5' Altered Rock — Massive, black chloritized. Traces of mineral.

1064.0'

1064.0' End of the hole.

D.D.H. T-110

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zinck %	Iron %
5033	235.0	236.0	1.0	0.025	5.50				
5120	620.0	625.0	5.0	0.010	0.20			TR.	
5121	625.0	630.0	5.0	0.010	0.30			TR.	
5122	630.0	635.0	5.0	0.010	0.10			0.50	
5123	635.0	640.0	5.0	0.025	0.20			TR.	
5124	640.0	643.0	3.0	0.020	0.50			TR.	
5310	1000.0	1002.0	2.0	0.010	0.20				
5311	1002.0	1005.0	3.0	0.010	0.70	NIL.	0.034		2360
5312	1005.0	1010.0	5.0	0.020	0.90	NIL.	0.060		
5313	1010.0	1015.0	5.0	0.055	1.50	NIL.	0.108		
5314	1015.0	1020.0	5.0	0.155	1.20	NIL.	0.074		
Avge	1005.0	1020.0	15.0	0.080	1.20				

D.D.H. T-115

Location : L23E 456'N

Started : March 19th, 1957.
Completed : March 25th, 1957.
Logged by : J. Koene.

Dip at collar : 90°
at 150.0' : 87°30'
at 350.0' : 85°

Core Size : A.X.T.

Length of hole : 680.0'

0.0 Casing

106.0'

106.0' Anorthosite Unaltered. Fresh looking. Massive. 85% feldspar. Texture spotty, due to irregular, blackish-greenish rounded phenos in a grey-white matrix. Contains a few narrow zones and patches of high chloritization.
160.0' Altered rock for about 3' with also indication of weathering.
179.0' Colour of matrix changes to medium grey-white numerous, irregular dirty-white feldspar phenos appear.
192.0' Traces of pyrite and chalcopyrite.

216.0'

216.0' Altered Anorthosite
Same texture as 106.0'. Fairly massive. Contains zones of relatively high chloritization and sericitization without recognizable texture. Also a few, narrow, weathered zones with some mineral (pyrite).
261.0' Mineralized quartz vein up to 263.5' (pyrite) about 40% mineral.

316.0'

316.0' Altered Zone Grades over from foregoing rock. Probably also anorthosite. No texture visible. Fairly massive. Blackish-grey in colour. Very slightly mineralized. Mineral occurs in irregular spaced patches and fissures.
332.0' Rock becomes highly chloritized and more black in colour. Rock shows a distinct lineation at about 45° to cn.. at 347.0' but this angle increases rapidly, going down the hole.
Numerous small patches of brown leucoxene all through the core.
381.0' Colour of rock becomes more medium to pale grey, due to increasing amount of carbonate. Probably also more sericite. At same footage rock becomes distinctly sheared at about 70° to cn.. Less mineral present, but still some pyrite in schistosity planes.

403.5'

403.5' Medium to High Grade Ore
Mostly fine grained pyrite, concentrated in narrow zones, seperated by sections of waste. Also a few chalcopyrite, which amount increases further down the hole.
415.0' High grade pyrite. Massive ore (fine grained pyrite, pyrrhotite some chalcopyrite) for about 3.5'.

423.0'

423.0' Highly Altered Rock
Sharp contact with high grade ore at about 70° to cn..

425.0'

425.0' Medium Grade Ore Zone — Mostly fine grained pyrite in bright green chlorite rick rock.
451.0' End of mineralization.

451.0'

451.0' Altered Zone — Black chloritized, sheared at about 45° to cn.. Spotted with large, irregular patches of sericite-saussurite. Cut by a few calcite stringers up to 2" at schistosity angle. Contains a few blebs of chalcopyrite, pyrite and a number of small patches of brown leucoxene Shearing decreases .
475.0' Rock shows linsation at about 45° to cn..
490.0' More sericite appears. Occur in huge, greenish spots. Rock becomes fairly massive. A few mineralized patches (pyrite) at irregular spaced intervals.

556.0'

556.0' Altered Anorthosite — Slightly altered. Massive. Coarse porphyrytic in texture. Greyish matrix with dirty white, subhedral feldspar phenos. Contains a few sections of higher (medium) alteration but also small zones of relatively unaltered anorthosite.

642.0'

642.0' Altered Zone — Massive. Reversed tombstone texture. Large, chloritized phenos in a fine grained sericite-carbonate matrix. Scattered patches of chalcopyrite.

653.0'

653.0' Anorthosite — Relatively slightly altered to unaltered, becoming unaltered and fresh looking at about 660.0'. Developes good tombstone texture up to the end of the hole.

680.0'

680.0' End of the hole.

D.D.H. T-115

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4825	261.0	263.5	2.5	0.425	2.10	0.150	0.122
4826	263.5	265.0	1.5	0.020	0.20		
4839	331.5	335.0	3.5	0.040	0.30		
4840	335.0	340.0	5.0	0.060	0.40		
4841	340.0	345.0	5.0	0.035	0.30		
4842	345.0	350.0	5.0	0.030	0.50	0.100	0.070
4843	350.0	355.0	5.0	0.040	1.20	0.070	0.138
4844	355.0	360.0	5.0	0.010	0.40		
4845	360.0	365.0	5.0	0.010	0.30		
4846	365.0	370.0	5.0	TR.	0.10		
4847	390.0	395.0	5.0	0.030	0.30		
4848	395.0	400.0	5.0	0.030	0.10		
4911	400.0	403.0	3.0	0.030	0.30		
4912	403.0	405.0	2.0	0.060	1.10		
4913	405.0	408.0	3.0	0.040	1.10		
4914	408.0	412.0	4.0	TR.	0.20		
4915	412.0	415.0	3.0	0.020	1.10	TR.	0.070
4916	415.0	420.0	5.0	0.240	4.00	0.100	0.194
4917	420.0	423.5	3.5	0.030	1.70	0.020	0.252
4918	423.5	425.0	1.5	0.025	0.50	0.100	0.056
4919	425.0	430.0	5.0	0.020	0.40		
4920	430.0	435.0	5.0	0.020	0.40		
4921	435.0	440.0	5.0	0.020	0.30		
4922	440.0	445.0	5.0	0.010	0.50		
4923	445.0	450.0	5.0	0.010	0.40		
4924	450.0	455.0	5.0	0.060	0.30		
4925	455.0	460.0	5.0	0.010	0.30		
4926	460.0	465.0	5.0	0.010	0.20		
Avge	345.0	355.0	10.0	0.035	0.85		
	403.0	423.5	20.5	0.078	1.73		

D.D.H. T-116

Location : L21E 80'N

Started : March 20th, 1957.
Completed : March 25th, 1957.
Logged by : J. Koene and N. Vollo.

Dip at collar : 90°
at 700.0' : 82°30'

Dip at 175.0' : 89°
at 425.0' : 86°

Azimuth at 175.0' : S 38 W
Azimuth at 425.0' : S 39° W.

Core Size : A.X.T.

Length of hole : 703.0'

0.0 Casing

146.0'

146.0' Anorthosite — Relatively unaltered. Massive. Contains narrow, highly chloritized zones. Texture is very indistinct. Probably porphyrytic, but feldspar-phenos have same colour as matrix. Greyish-black.
Becomes sericitzed and grades into 232.0'.

232.0'

232.0' Altered Anorthosite
Grey, sericitized and carbonitized with remnants of plagio phenos. Contains a few irregular quartz veins at 65° to cn.. Grades into 250.0'.

250.0'

250.0' Altered Zone — Medium to dark grey, sericite-carbonate alteration. Abundant fine calcite stringers. Sparse fine altered leucoxene.
273.0' Pale grey-green sericite carbonate alteration with abundant fine leucoxene. Becomes more chloritized and grades into 307.5'.
307.5' Dark grey chlorite schist with green sericite-saussurite alteration along 45° schistosity.
316.0' Dark green chlorite schist, cut by numerous fine calcite stringers.
322.0' Schistosity at 55° to cn.. Ankerite and siderite appear along schistosity.

324.8'

324.8' Ore Zone — Highly schistose with schistosity 40-50° to cn.. Has a strongly banded appearance, due to alternating bands of grey quartz, ankerite, siderite, chlorite and pyrite, sparse pyrrhotite and some chalcopyrite (chloritoid). Total sulphides 15%,
352.5' Schistosity disappears, mineral increases to about 60% sulphides, 50% pyrite-pyrrhotite, 10% chalcopyrite.
362.0' 10% chalcopyrite, 10% pyrite in a grey quartz gangue.
364.0' Green chlorite schist, erratically mineralized by less than 5% chalcopyrite, 5-10% pyrite, 5% pyrrhotite. Schistosity at 55° to cn..

380.0'

380.0' Altered Zone — Green chlorite schist at 55° to cn. with a few grey quartz stringers along schistosity. Lightly mineralized with about 5% pyrite, light pyrrhotite, chalcopyrite. Scattered patches of brown altered leucoxene throughout
450.0' Sericite-carbonate predominant, giving rock a pale grey colour. Slight increase of mineralization. Rock becomes highly sheared at about 60-70° to cn..

475.0'

475.0' Low Grade Ore Zone Same rock type. About 10-15% mineral: pyrite with a few patches of chalcopyrite. Increase of mineral.

485.0'

485.0' Medium Grade Ore Zone

Also pyrrhotite and chalcopyrite appear. Pyrite still predominant. Contains zones of quartz and carbonate. This rock part is fairly massive. In general about 30-40% sulphides.

503.0'

503.0' Altered Mineralized Rock

Fairly massive. Very low grade mineral, but relatively more chalcopyrite. Greenish-grey. Chlorite and sericite in equal amounts. Contains numerous small, black, subhedral crystals, probably ilmenite.

540.0' 5' quartz vein, preceded by 3' carbonate-chlorite rock.

545.0' Highly altered, black chloritized rock without any mineral. Massive. Cut by a number of calcite stringers at various angles. Contains a number of irregular, calcite patches. Sericite-saussurite fissures and patches and abundant, small, irregular spots of brown leucoxene.

575.0' Becomes dark grey, highly sericitized with very abundant fine white calcite veinlets, generally parallel to cn.. Fairly abundant brown leucoxene.

617.0'

617.0' Anorthosite

Coarse, equigranular with distinct texture. Lightly sericitized and carbonitized.

638.0'

638.0' Altered Anorthosite

Dark grey, moderately chloritized and sericitized with coarse corroded albite phenos in a black matrix. Some patches of relatively unaltered anorthosite. Sparse leucoxene.

698.0'

698.0' Anorthosite

Pale grey to white, relatively unaltered, coarse with uniform coalescent texture.

703.0'

703.0' End of the hole.

D.D.H. T-116

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5067	320.0	325.0	5.0	0.040	0.20		
5069	325.0	330.0	5.0	0.025	0.60	0.080	0.082
5070	330.0	335.0	5.0	0.035	0.60	0.020	0.082
3071	335.0	340.0	5.0	0.020	0.50	TR.	0.058
5072	340.0	345.0	5.0	0.010	0.30	0.040	0.048
5073	345.0	350.0	5.0	0.020	0.40	0.020	0.048
5074	350.0	355.0	5.0	0.050	0.40	0.050	0.066
5075	355.0	360.0	5.0	0.140	2.30	0.020	0.152
5076	360.0	365.0	5.0	0.255	3.50	0.060	0.304
5077	365.0	370.0	5.0	0.025	0.80	NIL	0.062
5078	370.0	375.0	5.0	0.135	1.70	NIL	0.112
5079	375.0	380.0	5.0	0.050	1.00		
5080	380.0	385.0	5.0	0.020	0.20		
5081	385.0	390.0	5.0	0.010	0.30		
5082	390.0	395.0	5.0	0.010	0.40		
5083	395.0	400.0	5.0	0.0175	0.20		
5084	400.0	405.0	5.0	0.010	0.40		
5085	405.0	410.0	5.0	0.020	0.60		
5086	410.0	415.0	5.0	0.010	0.30		
5087	415.0	420.0	5.0	0.010	0.20		
5088	420.0	425.0	5.0	TR.	0.10		
5089	425.0	430.0	5.0	0.010	0.20		
5090	430.0	435.0	5.0	TR.	0.30		
5091	435.0	440.0	5.0	TR.	0.30		
5092	440.0	445.0	5.0	0.010	0.30		
5093	445.0	450.0	5.0	0.010	0.50		
5096	450.0	455.0	5.0	0.010	0.50		
5097	455.0	460.0	5.0	TR.	0.20		
5098	460.0	465.0	5.0	0.010	0.40		
5099	465.0	470.0	5.0	0.010	0.30		
5100	470.0	475.0	5.0	TR.	0.20		
4934	475.0	480.0	5.0	0.010	0.60		
4935	480.0	485.0	5.0	0.010	0.40	0.237	0.116
4936	485.0	490.0	5.0	0.020	0.40	0.220	0.096
4937	490.0	495.0	5.0	0.080	0.60		
4938	495.0	500.0	5.0	0.020	0.90	0.484	0.062
4939	500.0	505.0	5.0	0.035	1.00	0.226	0.086
4940	505.0	510.0	5.0	TR.	0.30		
4941	510.0	515.0	5.0	0.010	0.80		
4942	515.0	520.0	5.0	TR.	0.40		
4943	520.0	525.0	5.0	0.010	0.80		

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
4944	525.0	530.0	5.0	0.035	2.30	0.100	0.042
4945	530.0	535.0	5.0	0.030	1.70	0.080	TR.
4946	535.0	540.0	5.0	0.010	1.70	0.100	TR.
4947	540.0	545.0	5.0	0.010	0.10		
4985	545.0	550.0	5.0	0.010	0.10		
Avge	325.0	380.0	55.0	0.070	1.10		
	355.0	380.0	25.0	0.121	1.86		
	490.0	540.0	50.0	0.021	0.95		
	525.0	540.0	15.0	0.023	1.90		

D.D.H. T-122

Location : L21E 181'S

Started : March 21st, 1957.
Completed : April 5th, 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at 200.0' : 90°
at 700.0' : 89°

Core Size : A.X.T.

Length of hole : 854.0'

0.0 Casing

144.0'

144.0' Anorthosite — White, coarse porphyrytic with grey, lightly sericilized and chloritized patches. Some narrow bands of dark green chloritization.
225.0' Becomes grey, more sericitized, zoisitized.
261.0' Lost core.
262.5' Becomes vuggy, kaolinited.
277.5' Fresh, relatively unaltered, coarse porphyrytic.
300.0' Becomes lightly sericitized, carbonitized.
4" rusty gossan cuts core sharply at 75° to cn.. at 313.0'.
317.0' Fresh, relatively unaltered, porphyrytic. Grades to 349.0'.

349.0'

349.0' Altered Anorthosite — Pale greenish-grey, very highly sericite with a few ramnants of anorthosite.

367.0'

367.0' Altered Zone — Light grey, very highly sericitized. Abundant fine leucoxene. Abundant fine white calcite stringers. Very sparse pyrite, a little chalcopyrite in calcite stringers.
457.0' Becomes dark grey to black, highly chloritized with patches of pale green sericite-saussurite-carbonate up to 2' in core length.
Good pyrite over 1' with calcite stringers at 462.0'.
5" gramular pyrite at 465.0'.
480.0' Same but with abundant chloritoid.
481.5' As before.
485.0' Same but with abundant coarse ankerite.

487.0'

487.0' Ore Zone — Dark grey-green, highly silicified and carbonitized, chlorite schist with poor 55° cn. schistosity.
More chloritic patches carry abundant chloritoid. Mineralized with 10-15% finely disseminated pyrite, sparse pyrrhotite and chalcopyrite.
512.0' Very highly silicified with about 95% dark grey quartz with patches of chlorite-chloritoid.
Mineralized with 15% very patchy pyrite, little chalcopyrite.
Coarse siderite over 2" at 521.0'.
527.0' Chlorite-ankerite-pyrite zone. Very abundant coarse, grey ankerite.
10-15% patchy pyrite, sparse chalcopyrite. Strongly sheared at 55-60° to cn..

537.0'

537.0' Altered Zone — Green, chlorite-chloritoid zone, sheared at 55° to cn., mottled with white to pale green sericite-saussurite. 5-10% patchy pyrite.

545.0' Same with abundant chloritoid, light patchy pyrite, some ankerite.
552.0' Black chlorite alteration mottled with 25-30% pale green sericite saussurite. Abundant leucoxene.
567.0' Green chlorite alteration, silicified and mineralized by about 20% granular pyrite.
570.0' Black mottled chlorite alteration as before. Lightly mineralized with very patchy pyrite.
618.0' Coarse siderite-ankerite vein. Pyrite and pyrrhotite on top and bottom.
621.5' Black chlorite alteration, sheared (lightly) at 55° to cn..
628.0' Same, but not sheared. Outlines of coarse plagio-phenos can be faintly detected, though completely altered to chlorite.
Mottled with coarse interstitial (?) patches of green sericite-saussurite. Patchy very coarse brown, altered leucoxene.
650.0' Black, chlorite alteration, mottled with a little green sericite saussurite with patches of light green, highly carbonitized material up to 3' in core length.
These contain fair pyrite.
Occasional coarse patches of brown altered leucoxene.
Abundant, irregular 1/8-3/4" calcite stringers.
700.0' Massive, green, chlorite alteration, mineralized with 3-4% pyrite, sparse chalcopyrite. Scattered, very irregular calcite stringers.

731.0'

731.0' Vein

Grey-green quartz, mineralized with 15% fine pyrite, a little pyrrhotite.
737.0' Barren grey quartz-calcite with inclusions of jetblack chlorite and a hard coffee brown mineral. Very little sulphide.

742.0'

742.0' Altered Zone

Dark grey to black chlorite-sericite alteration with chlorite dominant.
Mottled by irregular , pale green sericite-saussurite-carbonate. Abundant 1/8-1" irregular, calcite stringers. Scattered patchy brown, altered leucoxene. Grades to 794.0'.

794.0'

794.0' Anorthosite

Coarse, white porphyrytic, relatively unaltered.
800.0' Hard, green, coalescent with porphyrytic patches. Unaltered.

854.0'

854.0' End of the hole.

D.D.H. T-122

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5166	485.0	490.0	5.0	TR.	0.30		
5167	490.0	495.0	5.0	0.010	0.20	TR.	0.076
5168	495.0	500.0	5.0	TR.	TR.	TR.	TR.
5169	500.0	505.0	5.0	TR.	0.10	0.020	0.086
5170	505.0	510.0	5.0	TR.	0.10	TR.	TR.
5171	510.0	515.0	5.0	0.010	0.10	0.040	0.040
5172	515.0	520.0	5.0	0.035	0.20	TR.	TR.
5173	520.0	525.0	5.0	0.045	0.70	0.030	0.064
5284	525.0	530.0	5.0	0.020	0.30	0.060	0.174
5285	530.0	537.0	7.0	0.010	TR.		
5286	537.0	540.0	2.0	0.010	0.10		
5287	540.0	545.0	5.0	0.010	TR.		
5226	550.0	555.0	5.0	TR.	0.20		
5227	565.0	567.0	2.0	TR.	TR.		
5228	567.0	570.0	3.0	0.015	0.20		
5229	581.0	583.0	2.0	0.010	0.20		
5230	618.0	621.5	3.5	0.010	0.20		
5301	700.0	705.0	5.0	0.010	0.30		
5302	705.0	710.0	5.0	0.025	0.20		
5303	710.0	715.0	5.0	0.010	0.20		
5304	715.0	720.0	5.0	0.010	0.20		
5305	720.0	725.0	5.0	0.015	0.30		
5338	725.0	731.0	6.0	0.010	0.20		
5339	731.0	737.0	6.0	0.035	0.80	NIL	0.252
5340	737.0	742.0	5.0	0.010	0.10		

D.D.H. T-123

Location : L22E 138'N

Started : March 22nd. 1957.
Completed : March 28th. 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at :
at :
at :

Core Size : A.X.T.

Length of hole : 752.0'

0.0 Casing

132.0'

132.0' Altered Anorthosite
Dark with coarse black chloritized phenocrysts in a grey matrix. Grades into 145.0'.

145.0'

145.0' Anorthosite Relatively unaltered with a few patches of black chlorite alteration. Fairly coarse grained with coalescent texture. Patches of a coarse black metallic (ilmenite ?) from 210.0' to 227.0'.
235.0' Becomes lightly sericitized, more greyish with patches of reversed texture. (black phenos).

289.0'

289.0' Altered Anorthosite
Uniform medium grey, highly sericitzed with narrow patches of li_tly altered anorthosite. Abundant fine calcite stringers.

332.0'

332.0' Altered Zone Pale grey, very highly sericitized with abundant fine calcite veinlets.
365.0' Becomes dark grey, grading to black, chlorite becoming diminant. Scattered patches of brown altered leucoxene.
371.0' Green chlorite alteration with about 5% pyrite in narrow calcite stringers. Massive. Becoming sheared at 375.0' at 55° to cn..
2" vein of coarse buff siderite to 377.0'.

377.0'

377.0' Ore Zone Siderite-ankerite-pyrite zone, strongly sheared at 45° to cn..
Host rock a green chlorite schist. 30-40% fine pyrite, 5% fine disseminated chalcopyrite. Siderite occurs as very coarse ½-1" veins along schistosity, ankerite as medium grained grey aggregate.
Abundant fine chloritoid in less mineralized sections.
Patch of black non metallic mineral, hardness about 5, at 382.5'.
408.5' 70-80% pyrite, less than 5% chalcopyrite in an ankerite gangue.
416.5' Ankerite-siderite zone with remnants of chlorite schist, less than 5% pyrite. Becomes green, more chloritic at 423.0'.
425.0' 50-60% pyrite, 5% chalcopyrite ina quartz-calcite gangue.
439.0' Lost core.

440.0'

440.0' Altered Zone — Strong green chlorite alteration with poorly developed 45° cn. schistosity. Lightly mineralized with pyrite as scattered stringers along the schistosity, sparse chalcopyrite. Abundant fine leucoxene.
467.0' Dark grey, more sericitic with abundant leucoxene. Lightly mineralized by scattered stringers pyrite, sparse chalcopyrite, pyrrhotite.
503.0' Lost core.
505.0' As above.

516.0'

516.0' Mineralized zone — 15-20% disseminated patchy pyrite, sparse chalcopyrite in chlorite-sericite alteration. No leucoxene. Much brecciated, grey quartz throughout. Abundant , fine calcite stringers.
539.0' Mineralization decreases to about 10% pyrite, much irregular grey quartz and quartz-calcite.
549.5' White quartz with patches of grey calcite.

554.5'

554.5' Altered Zone — Highly sericitized and chloritized in equal amounts, mottled with pale green sericite-saussurite. Abundant patchy brown leucoxene.
572.0' Becomes grey, highly sericitized. Abundant calcite veinlets and leucoxene.
592.0' Lost core.

594.5'

594.5' Anorthosite — Relatively unaltered with grey zoisitized patches.
606.0' Becomes moderately chloritized but retaining white plagio phenos.

615.0'

615.0' Altered Zone — Dark green, chlorite-sericite alteration, mottled with pale green sericite-saussurite-carbonate.
Abundant brown, some pink leucoxene. Patchy coarse pyrite.

623.0'

623.0' Anorthosite — White, relatively unaltered with coalescent txture. Some patches of moderate chloritization.

648.5'

648.5' Altered Zone — Green chlorite alteration, mottled with coarse patches of chrome mica and sericite-saussurite. The chrome mica patches contain coarse pyrite crystals.
6" white quartz - calcite at 659.0' with coarse crystal of pink titanite (?).

662.5'

662.5' Altered Anorthosite — Moderately chloritized, carbonitized and sericitized with white plagio phenos in a green matrix. Sharp contacts to 674.0'.

674.0'

674.0' Altered Zone — Black chlorite alteration with patches of anorthosite. A few quartz calcite veins up to 2". Grades to 682.0'.

682.0'

682.0' Anorthosite — Very coarse porphyrytic with white plagio phenos in a brownish matrix.
702.0' Coarse equigranulary with fairly distinct texture. Matrix altered to a hard brown aggregate.
744.0' Medium to coarse grey, slightly altered.

752.0'

752.0' End of the hole.

D.D.H. T-123

Samples and Assays taken

Sample number	Section of Hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5004	370.0	375.0	5.0	TR.	0.20	NIL	TR.
5005	375.0	380.0	5.0	0.0175	0.40	0.020	0.074
5006	380.0	385.0	5.0	0.020	0.80		
5007	385.0	390.0	5.0	0.050	1.40	TR.	0.160
5008	390.0	395.0	5.0	0.030	1.00	0.020	0.128
5009	395.0	400.0	5.0	0.020	0.40	TR.	0.048
5010	400.0	408.5	8.5	0.010	0.50	NIL	0.056
5011	408.5	416.5	8.0	0.085	0.90	TR.	0.164
5012	416.5	420.0	3.5	0.070	0.40		
5013	420.0	425.0	5.0	0.060	0.50		
5014	425.0	430.0	5.0	0.070	1.60	0.100	0.106
5015	430.0	435.0	5.0	0.175	1.20	0.080	0.114
5016	435.0	439.0	4.0	0.250	2.00	0.050	0.128
5017	440.0	445.5	5.5	0.020	0.70		
5018	446.7	450.0	3.3	0.025	0.30		
5019	450.0	455.0	5.0	0.020	0.30		
5020	455.0	460.0	5.0	TR.	0.30		
5021	460.0	465.0	5.0	TR.	0.40		
5022	465.0	470.0	5.0	0.010	0.20		
5023	470.0	475.0	5.0	TR.	0.20		
5024	475.0	480.0	5.0	TR.	0.30		
5025	480.0	485.0	5.0	TR.	0.30		
5026	485.0	490.0	5.0	0.010	0.40		
5027	490.0	495.0	5.0	0.010	0.40		
5028	495.0	500.0	5.0	0.010	0.60		
5042	500.0	503.0	3.0	TR.	0.20		
5043	505.0	510.0	5.0	TR.	0.20		
5044	510.0	515.0	5.0	0.010	0.30		
5045	515.0	520.0	5.0	TR.	0.10		
5046	520.0	525.0	5.0	0.010	0.50		
5047	525.0	530.0	5.0	0.010	0.50		
5048	530.0	535.0	5.0	0.100	0.40		
5049	535.0	540.0	5.0	0.020	0.40		
5050	540.0	545.0	5.0	0.045	0.20		
4998	545.0	550.0	5.0	0.025	0.20		
4999	550.0	555.0	5.0	0.010	0.20		
Avge	385.0	395.0	10.0	0.040	1.20		
	425.0	439.0	14.0	0.160	1.86		
	385.0	439.0	54.0	0.074	1.03		

D.D.H. T-125

Location : L23E 282'N

Started : March 24th, 1957.
Completed : April 2nd, 1957.
Logged by : J. Keene and N. Volle.

Dip at collar : 90°
at 150.0' : 89°
at 475.0' : 87°30'
at 800.0' : 87°

Length of hole : 997.0'

0.0 Casing

113.0'

113.0' Anorthosite — Unaltered. Massive. 90% feldspar. Scattered patches of yellow-brown leucoxene.

118.0'

118.0' Altered Anorthosite

Interstices become slightly to medium sericitized and chloritized. Mauve calcite appears. Alteration increases down the hole. Contain several patches of yellow-orange leucoxene.
166.0' Rock becomes weathered and bleached. Core is battered and much of it is lost. Contains also narrow zones which are highly chloritized. Especially in the weathered zones.
208.0' Rock looks more fresh and is in general slightly altered.
225.5' Rock becomes weathered again. Contains blackish, altered patches and irregular patches and spots of calcite with stringers of limonite.
248.0' More fresh looking rock again, but still slightly altered, containing narrow sections and zones of relatively higher alteration.
305.0' Reversed texture for the next 4.5'.
350.0' Normal texture again. Colour pale grey with irregular shaped dirty white phenos. Alteration increases. Rock becoming highly altered, but still anorthosite texture is visible, except for a few sections of highly altered rock. These sections are black-green, highly chloritized.

380.0'

380.0' Altered Zone — Massive, dark green. Cut by a number of small calcite stringers. Contains scattered patches of leucoxene and sulphide (chalcopyrite-pyrrhotite) and some sphalerite.
401.0' Rock becomes lineated at about 30-50° to cn.. and mineralized with fine grained pyrite in parallel bands in the schistosity planes.
414.5' End of mineralisation. Colour changes to grey-black, because of predominant chlorite.

437.5'

437.5' High Grade Ore Zone

60-70% sulphides, mostly fine grained pyrite in some places showing lineation at about 45° to cn.. Also a few blebs of chalcopyrite and narrow zones of pyrrhotite.
465.0' Less mineral, but relatively more chalcopyrite and pyrrhotite instead of pyrite.
469.0' 18" quartz brecciation with some pyrrhotite and chalcopyrite.

471.5' End of high grade mineralization.

471.5'

471.5' Highly Altered Mineralized Rock
Black, chloritized. Fairly massive. Mineralized with a few patches of pyrite and chalcopyrite.

475.0'

475.0' Low Grade Ore Zone Same type of altered rock, but more mineral, probably enough to make low grade ore. In general about 10% sulphides (pyrite, chalcopyrite and pyrrhotite). Rock is slightly sheared at about 30° to cn..

493.0'

493.0' Medium Grade Ore Zone
In general about 30-40% sulphides of which pyrrhotite is highly predominant. Contains much carbonate and quartz which causes a slightly brecciated appearance.

505.5'

505.5' Altered Zone Sheared at about 50° to cn.. Sericitized and chloritized. Sericite probably predominant. Decrease of alteration.

518.0'

518.0' Altered Anorthosite
Massive. Sericitized and chloritized. Porphyrytic texture.

522.0'

522.0' Anorthosite Relatively unaltered. Massive. Medium coarse porphyrytic texture of subhedral feldspar-phenos. Interstices filled with slightly chloritized mafics. Fresh looking rock.

534.0'

534.0' Altered Zone Dark grey-green, highly sericitized with abundant leucoxene.

537.0'

537.0' Porphyrytic Basic Dyke
Massive, fine grained, green with patches of fine black phenos. Sharp 45° cn. contact to 547.0'.

547.0'

547.0' Anorthosite White, coarse to very coarse porphyrytic, relatively unaltered.
560.0' Highly sericitized section with abundant leucoxene.
566.0' Anorthosite as before.

632.0'

632.0' Altered Zone Strong green chlorite, sericite alteration, riddled by white calcite stringers, generally at 40-50° to cn.. Very sparse leucoxene. Some narrow patches of faintly recognizable anorthosite. No mineral. Contains zones in which sericite is highly predominant, occuring in huge, greenish-white spots.
700.0' Black chlorite-sericite alteration, mottled with pale green sericite-saussurite, roughly along poorly developed schistosity at 80-85° to cn.. Scattered fine calcite stringers as tension crack fillings at about 20° to cn.. A few 2-8" white quartz veins. Very sparse mineral.

821.0' Pale yellow-green, very highly sericitized with abundant, irregular calcite stringers, generally at 45-55° to cn..
Contains a number of small patches of brown leucoxene.
861.0' Rock becomes more and more carbonitized. Pale to medium grey in colour. Almost massive. Still cut by a number of irregular calcite stringers and patches.
865.5' a 6" calcite stringer at 70° to cn..

890.2'

890.2' Altered Anorthosite — Massive. Porphyrytic texture, chloritized mafics. Slightly altered. Contains sections which are medium to highly altered, but with still recognizable anorthosite texture.
Also a few sections of unaltered, fresh looking anorthosite. Texture becomes medium coarse porphyrytic at 917.0'. Mauve calcite in the interstices.

924.0'

924.0' Altered Zone — Massive. Sericite predominant, giving rock a greenish-pale grey colour. Cut by a number of patches and stringers of calcite-quartz at various angles.

934.4'

934.4' Altered Anorthosite — Massive. Slightly altered. Poprhyritic texture. Cut by a few quartz-calcite stringers at various angles. Mafics are medium chloritized, while there is also a considerable amount of mauve calcite in interstices. Feldspar-phenos look relatively fresh.

997.0'

997.0' End of the hole.

D.D.H. T-125

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5107	400.0	405.0	5.0	0.010	0.50		
5108	405.0	410.0	5.0	0.0175	0.80		
5109	410.0	415.0	5.0	0.0225	0.40		
5216	435.0	438.5	3.5	TR.	0.20	TR.	TR.
5217	438.5	440.0	1.5	0.0275	0.30	0.050	0.122
5218	440.0	445.0	5.0	0.0125	0.30	0.050	0.112
5219	445.0	450.0	5.0	0.040	0.10	0.100	0.124
5220	450.0	455.0	5.0	0.0575	1.10	0.140	0.144
5221	455.0	460.0	5.0	0.060	1.30	0.090	0.154
5222	460.0	465.0	5.0	0.050	1.10	0.100	0.114
5223	465.0	470.0	5.0	0.050	0.90	0.050	0.114
5224	470.0	471.5	1.5	0.080	0.80	0.020	0.142
5225	471.5	475.0	3.5	0.0175	1.60	TR.	0.036
5183	475.0	480.0	5.0	0.010	0.70		
5184	480.0	485.0	5.0	0.0375	1.10		
5185	485.0	490.0	5.0	TR.	1.00		
5186	490.0	495.0	5.0	0.0175	0.080	0.050	0.092
5187	495.0	500.0	5.0	0.1375	1.40	0.150	0.166
5188	500.0	505.0	5.0	0.050	0.90	0.070	0.240
Avge	450.0	505.0	55.0	0.046	1.06		

D.D.H. T-126

Location : L25E 396'N

Started : March 26th. 1957.
Completed : April 5th. 1957.
Logged by : N. Vollo and J. Koene.

Dip at collar : 90° Azimuth :
at 350.0' : 89° " : S22'W
at 700.0' : 86° " : S34'W

Core Size : A.X.T.

Length of hole : 897.5'

0.0 Casing

110.0'

110.0' Anorthosite White, very coarse, relatively unaltered with coalescent texture.
125.0' Becomes grey with atendency to reversed texture.
147.0' Coarse, white, relatively unaltered with uniform coalescent texture.
202.0' Becomes lightly sericitized with yellow phenos. Narrow patches of strong sericite chlorite alteration.
Vuggy 1/4" pyrite calcite stringers in altered patch at 208.0'.
275.0' Becomes highly sericitized and grades to 281.0'.

281.0'

281.0' Altered Zone Strong grey-green sericite chlorite alteration with sparse leucoxene.
306.5' Highly sericitized but recognizable yellow anorthosite.
312.5' Grey-green sericite chlorite alteration, lighlty mottled with pale green sericite-saussurite.
325.0' Becomes more chloritic with light patches pyrrhotite.
332.0' Highly sericitized, grey, recognizable anorthosite.
333.0' Strong sericite chlorite alteration, dark grey-green. No mineral.

348.5'

348.5' Altered Anorthosite
Very irregular, sericitized and chloritized with patches of unaltered rock. Patchy brown leucoxene in more altered sections.

376.0'

376.0' Anorthosite Uniform, light coloured, lightly sericitized to unaltered. Sparse pink leucoxene.

395.0'

395.0' Altered Anorthosite
Highly sericitized and chloritized with patches of faintly recognizable anorthosite. Fairly abundant leucoxene.
405.0' Same with no recognizable anorthosite.
413.0' Irregular quartz calcite vein with 5% reddish-brown sphalerite.
415.0' Lightly altered with highly sericitized chloritized patches.
437.0' Dark green, highly chloritized with a few grey quartz stringers sparse pyrrhotite. Abundant leucoxene.
447.0' to 452.0' White, relatively unaltered with very coarse plagio phenos.

452.0' Becomes grey, moderately sericitized with darker, highly sericitized patches.

475.0'

475.0' Anorthosite — Relatively unaltered with yellow-green, highly sericitized sections up to 2' in core length. Abundant leucoxene in more altered sections.

498.0'

498.0' Altered Anorthosite — Yellowish, moderately to highly sericitized with green partly chloritized patches. Very abundant irregular, white calcite stringers.

518.0'

518.0' Altered Zone — Massive, dark grey-green chlorite sericite alteration. Fine pink leucoxene throughout.

532.0'

532.0' Altered Anorthosite — Highly sericitized but retaining texture. Abundant calcite stringers, patchy leucoxene in more altered sections.

557.0'

557.0' Altered Zone — Massive, dark green chlorite alteration. No leucoxene, no calcite stringers.
585.0' Same but becomes sheared at about 80° to cn..

615.0'

615.0' Ankerite Zone — Chlorite schist, sheared at about 75° to cn. with 50% coarse grey ankerite and siderite. Good chalcopyrite, pyrite over 8" at 622.0'.

624.0'

624.0' Ore Zone — 50-60% pyrite in a carbonate gangue with 1/4-1/2" lenses of bright green chlorite along 55° cn schistosity.
Very sparse chalcopyrite. Abundant fine magnetite in patches.
645.0' Mineralization decreases to about 10% pyrite in a quartz gangue with fine remnants of green chlorite. 5% patchy pyrrhotite.
658.5' 60-70% pyrite in a quartz chlorite calcite gangue. About 3% chalcopyrite. 5% pyrrhotite, some magnetite.
667.5' Mineralization decreases to about 20% patchy pyrite, sparse pyrrhotite, chalcopyrite in a quartz chlorite calcite gangue.

677.0'

677.0' Altered Zone — Green chlorite schist, sheared at 60-70° to cn., mineralized with 5% patchy pyrite, light chalcopyrite. Sparse fine leucoxene along schistosity.
710.0' Same, but with less pyrite, very little chalcopyrite, more abundant leucoxene.

735.0'

735.0' Ore Zone — Low grade. Green chlorite schist, sheared at 50-55° to cn., mineralzied with less than 5% chalcopyrite-pyrite.
766.5' 30% pyrite in a chlorite ankerite gangue. 1-2% disseminated chalcopyrite. Moderately sheared at 45° to cn..
772.0' Dark green, chlorite sericite schist, highly sheared at 65° to cn..

775.0' Green chlorite schist, mineralized with 25%. fine pyrite pyrrhotite along 50° cn. schistosity.
785.0' Green, chlorite alteration, mottled with saussurite-carbonate. No mineral.
791.0' Quartz-calcite-ankerite vein with inclusions of black chlorite and a hard brown mineral. Good coarse chalcopyrite - pyrrhotite over 6" at 791.5'.

795.0'

795.0' Altered Zone

Green chlorite alteration with very abundant chloritoid. Weakly sheared at 70° to cn..
806.0' 9' of sericite-saussurite mottling with a few, irregular patches of carbonate and a number of scattered patches of brown leucoxene.
821.0' Sericite becomes predominant. Also huge, irregular patches of calcite. From about 815.0' rock remains massive.

847.5'

847.5' Anorthosite

Massive. First 4' are relatively slightly to medium altered, becoming unaltered to very slightly altered at about 852.0'. Chloritized mafics in a medium porphyritic texture.
Also a number of large feldspar-phenos up to 1.5".
Plagio content about 70%.
887.0' Plagio content increases to about 85%. very slightly sericitized.

897.5'

897.5' End of the hole.

D.D.H. T-126
Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zinck %
5191	325.0	331.0	6.0	0.025	0.20			
5235	413.0	415.0	2.0	TR	0.10			1.00
5147	615.0	620.5	5.5	0.010	0.40			
5148	620.5	623.0	2.5	0.055	2.30	TR.	0.150	
5149	623.0	628.0	5.0	0.030	0.70	0.120	0.128	
5150	628.0	633.0	5.0	TR.	0.30	0.180	0.110	
5241	633.0	638.0	5.0	0.020	0.30	0.230	0.102	
5242	638.0	643.0	5.0	0.010	0.20	0.360	0.104	
5243	643.0	646.0	3.0	0.020	0.30	0.380	0.126	
5244	646.0	650.0	4.0	0.010	0.20	0.150	0.084	
5958	650.0	655.0	5.0	0.015	0.20	0.120	0.128	
5959	655.0	658.5	3.5	0.010	0.20	0.080	0.104	
5960	658.5	663.0	4.5	0.010	0.60	0.140	0.240	
5961	663.0	667.0	4.0	0.010	0.20	0.150	0.236	
5963	667.0	670.0	3.0	0.020	0.30	0.170	0.206	
5964	670.0	675.0	5.0	0.020	0.20	0.080	0.122	
5965	675.0	680.0	5.0	0.015	0.20	TR	0.084	
5966	680.0	685.0	5.0	TR.	0.20			
5967	685.0	690.0	5.0	TR.	0.10			
5968	690.0	695.0	5.0	0.010	0.70			
5969	695.0	700.0	5.0	TR.	0.30			
5970	700.0	705.0	5.0	0.010	0.20			
5971	705.0	710.0	5.0	0.010	0.20			
5972	710.0	715.0	5.0	0.015	0.30			
5318	725.0	730.0	5.0	0.010	0.10			
5319	730.0	735.0	5.0	0.010	0.20			
5320	735.0	740.0	5.0	0.010	0.20			
5321	740.0	745.0	5.0	0.010	0.40			
5322	745.0	750.0	5.0	0.010	0.20			
5323	750.0	755.0	5.0	0.010	0.20			
5324	755.0	760.0	5.0	0.010	0.30			
5325	760.0	765.0	5.0	0.010	0.20			
5326	765.0	772.0	7.0	0.010	0.40	0.316	0.096	
5327	772.0	775.0	3.0	0.020	0.20			
5362	775.0	780.0	5.0	TR.	0.10	0.100	0.058	
5363	780.0	785.0	5.0	0.010	0.20	0.100	0.076	
5364	785.0	791.0	6.0	TR.	TR.			
5365	791.0	795.0	4.0	TR.	0.20			
5366	795.0	800.0	5.0	TR.	0.10			
Avge	620.5	675.0	54.5	0.018	0.40			
	735.0	795.0	60.0	0.008	0.22			

D.D.H. T-127

Location : L20E 64'S

Started : March 25th, 1957.
Completed : April 5th, 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at 200.0' : 88°30'
at 400.0' : 87°30'
at 600.0' : 78°30'

Core Size : A.X.T. and E.X.T.

Length of hole : 761.0'

0.0 Casing

152.0'

152.0' Anorthosite

Coarse, white, porphyrytic, relatively unaltered.
157.0' Uniform, medium to coarse, coalescent, relatively unaltered.
176.0' Core changes to E.X.T.

216.0'

216.0' Altered Anorthosite

Grey, highly sericitized with black chloritized patches. No mineral. Sparse leucoxene.

248.5'

248.5' Anorthosite

Coarse, white, slightly sericitized.
257.0' Grey, lightly to moderately sericitized.
262.0' Same, but rusty and weathered. Becomes chloritized and grades to 272.0'.

272.0'

272.0' Altered Zone

Dark green, chlorite-sericite alteration.
276.0' Lost core.
277.0' Pale grey-green, very highly sericitized with patches of possible anorthosite. Abundant fine, pink leucoxene. Very sparse pyrite.
340.0' Becomes darker with more chlorite.
342.0' Lost core.
345.0' Dark grey to black, chlorite-sericite alteration. Fair pink leucoxene.

352.0'

352.0' Ore Zone

Green chlorite alteration, mineralized with about 20% patchy pyrite. Good chalcopyrite in 1" 75°cn. grey quartz vein at 353.0'.
361.5' White quartz, lightly mineralized with pyrite. Coarse chalcopyrite and pyrrhotite with open vugs over 1' at 364.5'.
366.5' Coarse grey ankerite-siderite with about 15% white quartz. 4% pyrite over 2' with a little pyrrhotite, chalcopyrite at 370.0'. Otherwise lightly mineralized with patchy pyrite.

379.0' 15-20% patchy pyrite in a matrix of grey quartz, ankerite and chlorite with chloritoid in more chloritic sections. 2% disseminated chalcopyrite.

392.0'

392.0' Altered Zone — Green chlorite-chloritoid alteration, weakly sheared at about 55° to cn..
Some patches of black chlorite alteration, mottled with green sericite-saussurite.
415.0' Same, but with no chloritoid. Patchy disseminated pyrite in white calcite stringers.
Very sparse brown altered leucoxene.
476.0' Becoms dark grey-green, more sericitic, mottled with pale green sericite-saussurite-carbonate.
Fair patchy leucoxene.
Scattered patches of pyrite in narrow calcite stringers.
600.0' Becomes riddled with white calcite stringers and mineralized with 5-10% fine pyrite.

608.0'

608.0' Quartz Vein — Barren-looking grey to white quartz with inclusions of black chlorite and ankerite. Sparse pyrite.

625.0'

625.0' Altered Zone — Black chlorite alteration, mottled with pale green sericite-saussurite and with very numerous quartz-calcite stringers. Abundant brown altered leucoxene. Very sparse sulphides. Grades to 655.0'.

655.0'

655.0' Anorthosite — Medium to coarse, coalescent, relatively unaltered with short, lightly chloritized sections.
678.0' Coarse, porphyrytic with 75% subedral plagio in a green matrix.
687.5' Relatively unaltered, coarse, coalescent with porphyritic patches.
730.0' Becomes generally porphyrytic, coarse to very coarse.

761.0'

761.0' End of the hole.

D.D.H. T-127

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
5245	350.0	352.5	2.5	0.0125	0.10
5246	352.5	355.0	2.5	0.0175	0.80
5247	355.0	361.5	6.5	0.0275	0.20
5248	361.5	364.0	2.5	TR.	0.10
5249	364.0	366.5	2.5	0.0325	2.70
5250	366.5	370.0	3.5	0.040	0.20
5951	370.0	372.0	2.0	0.0275	0.20
5952	372.0	375.0	3.0	0.0425	0.10
5953	375.0	380.0	5.0	0.020	0.30
5954	380.0	385.0	5.0	0.020	1.10
5955	385.0	390.0	5.0	0.1025	0.70
5956	390.0	395.0	5.0	0.025	1.10
5957	395.0	400.0	5.0	0.010	0.10
5980	595.0	600.0	5.0	0.010	0.20
5981	600.0	605.0	5.0	TR.	0.30
5982	605.0	608.0	3.0	0.010	0.70
5983	608.0	615.0	7.0	0.010	0.10
5984	615.0	620.0	5.0	TR.	0.10
5985	620.0	625.0	5.0	TR.	0.20
Avge	352.5	395.0	42.5	0.034	0.65

D.D.H. T-132

Location : L21E 7'S

Started : March 26th, 1957.
Completed : April 8th, 1957.
Logged by : N. Vollo and J. Koene.

Dip at collar : 90°
at 200.0' : 90°
at 400.0' : 88°30'
at 600.0' : 86°

Core Size : A.X.T. and E.X.T.

Length of hole : 701.0'

0.0 Casing

154.0'

154.0' Anorthosite Grey to white, uniform with coarse coalescent texture, a few porphyrytic patches.
192.0' Becomes grey, chloritized with patches of black phenocrysts, reversed porphyrytic texture. Some patches of white, coarse, unaltered anorthosite.

270.0'

270.0' Altered Anorthosite
Grey, moderately to highly sericitized with remnants of white plagiophenos. Patches of rusty weathering from 277.0' to 300.0' ?.
Becomes progressively more altered and grades to 347.0'.

347.0'

347.0' Altered Zone Light grey, very highly sericitized with darker grey patches. Fairly abundant leucoxene. Numerous grey calcite stringers at about 10° to cn.. Has a mottled appearance due to pale green seridite-saussurite.
364.0' Becomes green, partially chloritized with traces of pyrrhotite chalcopyrite.
3" Coarse 45° cn. siderite vein at 365.3'.
Abundant fine chloritoid throughout.
374.4' Lost core.

376.5'

376.5' Ore Zone White quartz-calcite. No sulphides.
378.0' About 15% pyrite in a brecciated grey - quartz matrix with patches of fine siderite, sparse chalcopyrite.

395.0'

395.0' Altered Zone Green chlorite schist, sheared at 50° to cn. with abundant leucoxene. Light patchy pyrite, sparse chalcopyrite.
411.5' Black chlorite alteration. Sheared at about 60° to cn.,and strongly mottled with pale green sericite-saussurite. Patchy brown altered leucoxene. No sulphides.
438.0' to 439.6' Lost core.
444.0' Core changes to E.X.T. Same rock.

447.0' Mineral appears. Rock becomes sheared at about 45° to cn.. Colour changes to pale grey, due to increasing amount of carbonate. Total sulphides (mostly pyrite) about 10% to 15% for length of 3'. After that, rock stays very slightly mineralized (less than 5%).
476.0' Scattered patches of mauve yellow leucoxene appear in dark chlorite alteration, mottled with pale green sericite-saussurite. Very little sulphides.
521.0' Leucoxene disappears. Very irregular black chlorite alteration with about 75% green, highly carbonitized sections. Abundant calcite stringers. Patchy granular pyrite in some calcite stringers.

562.0'

562.0' Ore Zone

50% pyrite-pyrrhotite in a quartz-ankerite-calcite gangue. 1-2% fine chalcopyrite.
564.0' 20% pyrite, 5-10% pyrrhotite, light chalcopyrite in a green silicified chlorite gangue.
574.0' Quartz-ankerite-siderite vein, mineralized with a few patches of coarse pyrite.

585.0'

585.0' Altered Zone

Black "mottled" chlorite alteration with 50% pale green sericite-saussurite. Abundant brown altered leucoxene.
603.5' Becomes riddled with calcite stringers and mineralized with granular pyrite, a little chalcopyrite.
605.0' Lost core.
606.0' Mottled chlorite alteration.
607.0' Lost core.
608.0' Black "mottled " chlorite alteration as before. 1' white calcite vein at 607.7'.
615.0' Becomes grey-green with sericite dominant.
Abundant fine irregular calcite stringers, abundant leucoxene. Sparse patchy pyrite.
624.0' Quartz vein.
625.2' As before.

640.0'

640.0' Anorthosite

Moderately altered with spotted appearance, due to remaining plagio phenos.
643.0' Coarse, coalescent unaltered.
695.0' Becomes porphyrytic with about 75% euhedral plagio in a green matrix.
682.0' Lost core.
683.0' Grey, medium to coarse, zoisitized and epidotized.

701.0'

701.0' End of the hole.

D.D.H. T-132

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
5236	376.5	378.0	1.5	TR.	0.10
5237	378.0	385.0	7.0	0.040	0.20
5238	385.0	390.0	5.0	0.030	0.70
5239	390.0	395.0	5.0	0.035	0.70
5240	395.0	400.0	5.0	TR.	0.10
5380	400.0	405.0	5.0	0.010	0.20
5381	405.0	408.0	3.0	0.010	0.20
5382	408.0	411.5	3.5	0.020	0.30
5410	445.0	446.9	1.9	0.010	0.10
5411	446.9	450.0	3.1	0.0175	0.40
5412	450.0	455.0	5.0	0.020	0.30
5413	455.0	460.0	5.0	0.010	0.30
5414	460.0	465.0	5.0	0.0125	0.10
5415	465.0	470.0	5.0	0.0175	0.80
5416	470.0	475.0	5.0	0.0275	0.40
5417	475.0	480.0	5.0	TR.	0.30
5418	480.0	485.0	5.0	0.010	0.20
5419	485.0	490.0	5.0	TR.	0.10
5420	490.0	495.0	5.0	TR.	0.20
5421	495.0	500.0	5.0	TR.	0.10
5501	515.0	520.0	5.0	TR.	0.10
5502	520.0	525.0	5.0	0.010	0.20
5503	525.0	530.0	5.0	TR.	0.20
5504	530.0	535.0	5.0	0.010	0.20
5505	535.0	540.0	5.0	0.010	0.10
5506	540.0	545.0	5.0	TR.	0.20
5507	545.0	550.0	5.0	TR.	0.20
5508	550.0	555.0	5.0	0.0125	0.20
5509	555.0	560.0	5.0	0.010	0.20
5510	560.0	562.0	2.0	0.0225	0.30
5511	562.0	565.0	3.0	0.020	0.40
5512	565.0	570.0	5.0	0.030	0.30
5513	570.0	575.0	5.0	0.035	0.30
5514	575.0	580.0	5.0	0.020	0.30
5515	580.0	585.0	5.0	0.030	0.20
5516	585.0	590.0	5.0	TR.	0.30
5517	603.5	605.0	1.5	0.0175	0.40
5518	620.0	625.0	5.0	0.010	0.30

D.D.H. T-134

Location : L23E 107'N

Started : March 29th, 1957.
Completed : April 4th, 1957.
Logged by : J. Koene and N. Vollo.

Dip at collar : 90°
at 200.0' : 90°
at 400.0' : 87°30'
at 600.0' : 87°30'

Core Size : A.X.T.

Length of hole : 708.0'

0.0 Casing

150.0'

150.0' Black Anorthosite
Reversed texture. Numerous, small black phenos in a grey-white, fine grained matrix. Massive.

166.0'

166.0' Anorthosite Relatively unaltered. Dirty grey-white in colour. Massive. Medium porphyrytic. Chloritized mafics and some mauve calcite in interstices. Intersected by narrow zones of relatively slight alteration. Also a few narrow zones which are highly altered, but still with good recognizable texture.
From 205.0' down, several feet of lost core at irregular intervals.
239.0' No more lost core. Still relatively unaltered, massive, anorthosite.
252.0' Rather good tombstone texture.

373.0'

373.0' Altered Anorthosite
Same appearance and texture, but slightly more chloritized and sericitized. Contains a few narrow, highly altered zones. Sericite becomes predominant, alteration product.

387.0'

387.0' Highly Altered Anorthosite.
Massive. Sericite predominant. Mottled. Green in colour. Going over into very highly altered anorthosite at about 393.0'.

426.0'

426.0' Highly Altered Zone
Bluish-green in colour. Sericite predominant. Massive, but in spots foliated. Numerous, small patches of pale brown leucoxene. Mottled. Contains a number of patches of calcite which give rock a brecciated appearance.
Chlorite is present in considerable amount, but is located in numerous tiny patches throughout core.
490.0' Becomes mottled with sericite-saussurite along schistosity at 55° to cn.. Chlorite predominant.
498.0' Lost core.

500.0'

500.0' Mixed Core (Box dropped).
Chlorite-chloritoid-ankerite-pyrite zone. Well sheared at 45-50° to cn.. With abundant grey ankerite. 10% pyrite along schistosity. Core recovery about 80%.
531.0' End of mineralized rock with chloritoid and ankerite. Still well sheared at about 30° to cn..
Sericite predominant. Numerous elongated patches of sericite-saussurite in schistosity planes.
544.0' Chlorite is predominant. Still mottled (sericite-saussurite). Contains a few patches of pyrite, mostly accompanied by some carbonate. Also a number of patches of brown leucoxene. Shearing angle varies between 30° to cn and 50° to cn..
573.8' Last core for 14".
577.0' 2' lost core.

580.0'

580.0' Ore Zone Very low grade ore. Mostly pyrite. Fine grained in the schistosity planes, about 30° to cn.. Total mineralization between 10 and 15%.
593.0' 2' lost core.
596.0' 1.5' lost core.
605.0' 2.5' lost core.

612.0'

612.0' Highly Altered Rock
Sheared at about 50-60° to cn.. Black, chloritized with numerous elongated patches of sericite-saussurite and calcite in schistosity direction.
629.0' 1' lost core.

639.5'

639.5' Altered Anorthosite
Sharp contact at about 30° to cn.. Fairly massive. Numerous irregular, dirty white feldspar-phenos in a fine grained, pale to medium grey matrix, which is slightly to medium chloritized. Contains sections which are relatively lower degree of alteration with more fresh looking feldspar.

708.0'

708.0' End of the hole.

D.D.H. T-134

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5146	500.0	525.0	25.0	0.025	0.30	NIL	0.030
5328	575.0	577.5	2.5	TR.	0.20		
5329	560.0	585.0	5.0	TR.	0.30		
5330	585.0	590.0	5.0	TR.	0.20		
5331	590.0	593.2	3.2	TR.	0.10		
5332	595.0	596.3	1.3	0.010	0.40		
5333	598.8	600.0	1.2	0.030	0.20		
5334	600.0	605.0	5.0	0.010	0.10		
5335	607.5	610.0	2.5	0.035	0.20		
5336	610.0	615.0	5.0	0.010	0.40		
5986	625.0	628.8	3.8	TR.	0.30		
5987	630.0	635.0	5.0	TR.	0.20		
5988	635.0	640.0	5.0	TR.	0.30		

D.D.H. T-140

Location : L26E 540'N

Started : March 30th. 1957.
Completed : April 10th. 1957.
Logged by : N. Vollo and J. Koene.

Dip at collar : 90°
at 100.0' : 90°
at 400.0' : 89°
at 700.0' : 89°

Core Size : A.X.T.

Length of hole : 869.0'

0.0 Casing

78.0'

78.0' Anorthosite — Uniform, dirty white with coalescent texture. Scattered patches of reversed texture. Becomes lightly sheared at 65° to cm., at 181.0'.

183.0'

183.0' Altered Zone — Massive, light grey, very highly sericitized, cut by fine calcite stringers. Sharp contact to 198.0'.
198.0' Becomes dark green, highly chloritized with patchy leucoxene.
210.0' Less altered with recognizable patches of anorthosite.

215.0'

215.0' Anorthosite — Grey, lightly altered with a tendency to reversed texture.

223.0'

223.0' Altered Zone — Highly chloritized and sericitized, green with patches of coarse pyrite, some rusty weathered sections. Sparse fine chalcopyrite.

230.0'

230.0' Anorthosite — White, lightly chloritized and sericitized with coarse porphyritic texture.

247.0'

247.0' Altered Zone — Creep, chlorite sericite alteration, mineralized with 1-2% chalcopyrite, some pyrite. Scattered calcite stringers.

252.0'

252.0' Anorthosite — Coarse, white, lightly sericitized.
268.0' Highly chloritized, green, but with recognizable anorthosite texture.
272.0' Coarse, white porphyritic with coarse phen's entirely altered to yellow sericite. Grades to 288.0'.

288.0'

288.0' Altered Anorthosite — Yellowish-green, moderately to highly sericitized with abundant narrow calcite stringers.

305.5'

305.5' Altered Zone — Dark green, chlorite sericite alteration, fiddled with fine calcite stringers, which are mineralized with red-brown sphalerite, a liitle chalcopyrite, pyrrhotite.

311.0' Same, but with less calcite, sparse sphalerite. Contains coarse, yellow, highly sericitized spots, possibly originally plagio-phenos. Scattered patches of leucoxene.
345.0' Same, but more sericitic. Lightly mineralized with pyrite, pyrrhotite and chalcopyrite. A few grey quartz stringers.
353.0' Becomes highly sericitized, dark grey-green with coarse, irregular patches of sericite-saussurite-carbonate. Grades to 374.0'.

374.0'

374.0' Altered Anorthosite

Grey-white, lightly altered with green, more highly altered patches. Texture coalescent or destroyed by alteration.
402.0' Less altered, coalescent with fresh, unaltered patches.
427.0' Lightly to moderately sericitized with patches of green chloritization. Scattered calcite stringers.
449.0' Contains also long zones (up to 10') of highly altered anorthosite which is black chloritized and in places sheared at about 30° to cn.. These zones contain much carbonate in patches and foliated fissures.
461.0' Relatively slightly to medium altered.anorthosite again with a very indistinct texture.
518.0' Texture distinct, fine to medium porphyritic with numerous, small spots of greenish chloritized mafics. Alteration seems to decrease slightly, proceeding down the hole.
560.0' Grey-green, highly sericitized with abundant brown leucoxene. Anorthosite texture practically obliterated.
576.0' Yellowish-white, highly sericitized, but retaining anorthosite texture.
Sharp 10° cn. contact to 581.5'.

581.5'

581.5' Anorthosite — Coarse, coalescent, lightly sericitized, 5" calcite vein at 602.0'.

613.0'

613.0' Altered Anorthosite

Yellow, moderately sericitized with numerous irregular, calcite stringers. Grades into 617.0'.

617.0'

617.0' Altered Zone — Green, very highly sericitized, some chlorite and mottled with pale green sericite-saussurite. Abundant leucoxene.
620.0' Same, but mineralized with patchy pyrite, pyrrhotite.

624.0'

624.0' Altered Anorthosite

Light green, moderately to lightly sericitized with a few 4-6" calcite veins.

643.0'

643.0' Anorthosite — White, coarse, coalescent, unaltered. Grades into 652.0'.

652.0'

652.0' Altered Zone — Grey-green, strong sericite-chlorite alteration with sericite predominant. Abundant pink leucoxene. Weakly sheared at about 55° to cn.. Sparse pyrite.

687.0' Becomes strongly sheared, averaging 45°, but variable and crenulated. Light patchy pyrite, sparse chalcopyrite along schistosity. Scattered patchy leucoxene.
1" coarse, siderite stringer at 692.0'.
Sharp 45° cn contact to 701.0'.

701.0'

701.0' Ore Zone — 20-25% pyrite, 10% pyrrhotite, light chalcopyrite along schistosity of green chlorite alteration, sheared at about 45° to cn. Sparse, irregular quartz and quartz calcite stringers. Grades to 725.0'.

725.0'

725.0' Altered Zone — Dark grey to black chlorite alteration, sheared at 55-60° to cn. with some green sericite-saussurite mottling. Fairly abundant brown altered leucoxene.
755.0' Same but mineralized with sparse pyrite and chalcopyrite.

782.0'

782.0' Ore Zone — Green chlorite alteration, weakly sheared at about 60° to cn. and mineralized with about 2% chalcopyrite as scattered veinlets, 5% patchy pyrite-pyrrhotite.
790.0' Coarse grey ankerite siderite. About 15-20% pyrite-pyrrhotite, sparse chalcopyrite in a fine chlorite gangue. Scattered irregular veins of grey ankerite and white calcite.
8" white calcite on contact to 803.5'.

803.5'

803.5' Altered Zone — Dark grey, massive, chlorite sericite alteration, irregularly mottled with pale green sericite saussurite, fairly abundant brown altered leucoxene. Cut by irregular fine calcite stringers at about 30° to cn..
820.0' Becomes lighter grey, more sericitic with abundant leucoxene. Scattered calcite stringers up to 1" at about 40° to cn.. Grades to 846.0'.

846.0'

846.0' Anorthosite — Moderately sericitized with 50% white plagio.
848.5' White unaltered with coalescent texture.
853.0' Grey, slightly zoisitized with coalescent texture.

869.0'

869.0' End of the hole.

D.D.H. T-140

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zinck %
5306	222.0	225.0	3.0	0.010	0.30			
5307	225.0	230.0	5.0	0.010	0.50			
5308	246.5	250.0	3.5	0.010	0.30			
5309	250.0	252.0	2.0	0.010	1.10			
5989	305.5	311.0	5.5	TR.	0.40			TR.
5990	340.0	345.0	5.0	TR.	0.20			
5991	345.0	350.0	5.0	0.010	0.30			
5992	350.0	355.0	5.0	0.010	0.20			
5422	620.0	623.0	3.0	0.020	0.10			
5389	685.0	687.0	2.0	0.010	0.10			
5390	687.0	690.0	3.0	0.010	0.20			
5391	690.0	695.0	5.0	0.010	0.20			
5392	695.0	700.0	5.0	0.010	0.30			
5393	700.0	705.0	5.0	0.035	0.40			
5394	705.0	710.0	5.0	0.025	0.40			
5395	710.0	715.0	5.0	0.025	0.40			
5396	715.0	720.0	5.0	0.010	0.20			
5397	720.0	725.0	5.0	0.010	0.30			
5398	725.0	730.0	5.0	0.010	0.30			
5533	750.0	755.0	5.0	TR.	TR.			
5535	755.0	760.0	5.0	TR.	0.10			
5536	760.0	765.0	5.0	TR.	TR.			
5537	765.0	770.0	5.0	TR.	0.20			
5538	770.0	775.0	5.0	TR.	0.20			
5539	775.0	780.0	5.0	0.010	0.20			
5540	780.0	782.0	2.0	TR.	0.30			
5541	782.0	785.0	3.0	0.010	0.50	0.070	0.036	
5542	785.0	790.0	5.0	0.020	0.40	0.386	0.070	
5543	790.0	795.0	5.0	0.0275	0.40	TR.	0.056	
5544	795.0	800.0	5.0	0.010	0.20			
5545	800.0	803.5	3.5	0.0175	0.20	0.050	0.040	
5546	803.5	805.0	1.5	TR.	TR.			
5547	805.0	810.0	5.0	TR.	TR.			
Avge	700.0	725.0	25.0	0.021	0.34			
	782.0	803.5	21.5	0.018	0.33			

D.D.H. T-142

Location : L27E 510'N

Started : April 1st, 1957.
Completed : April 11th, 1957.
Logged by : J. Koene.

Dip at collar : 90°
at 100.0' : 90°
at 400.0' : 89°
at 800.0' : 89°

Core Size : A.X.T.

Length of Hole : 982.2'

0.0 Casing

90.0'

90.0' Black Anorthosite
Massive. Numerous large, chloritized black phenos in a whitish, slightly to medium carbonitized, fine grained matrix.

114.0'

114.0' Highly Altered Black Anorthosite
Black chloritized. Massive. Contains irregular, white fissures and patches of calcite.

139.0'

139.0' Black Anorthosite
As 90.0'.
190.0' 6" calcite stringer at 0° to cn..
193.0' Coalescing texture in greenish-grey, unaltered anorthosite. Still massive.

200.0'

200.0' Altered Anorthosite
Massive, very slightly altered, original texture is not recognizable. Rock is sericitized and silicified.

229.0'

229.0' Altered Section
Black chloritized. Massive. Rather sharp upper contact at about 45° to cn..
239.0' 2' of black spotted anorthosite.

241.0'

241.0' Anorthosite Relatively unaltered to slightly altered.
Massive. Contains several intersections of black anorthosite with reversed texture.

264.0'

264.0' Altered Anorthosite
First 10' consist of black anorthosite in which the amount of chlorite has increased. Further down we run over into greenish-grey, slightly to medium altered anorthosite with coalescing texture and phenos of yellow-green sericite.

290.0'

290.0' Altered Zone — Greenish-black. Chlorite and sericite in about equal amounts. Massive. Contains patches of white calcite with chlorite in needles at the borders.
298.8' a 5" quartz stringer at about 0° to cn..
300.5' 2' slightly mineralized rock accompanied by quartz. Mostly pyrite. Also some sphalerite and chalcopyrite.
308.0' 2' with about 60% carbonate.

313.0'

313.0' Altered Anorthosite — Highly altered. Massive. Indistinct texture. Rock contains a few patches of sphalerite, chalcopyrite and pyrite. Alteration increases, proceeding down the hole. Much more carbonate appears in irregular patches and stringers.

340.0'

340.0' Altered Zone — Massive. Black chloritized with abundant, huge rounded, greenish spots of sericite. Many patches and irregular stringers of calcite quartz. Also a few patches of sulphides. Mostly sphalerite and pyrite. A few scattered patches of brown leucoxene.
365.5' Abrupt change in colour, rock becomes pale green. Due to predominant sericite.

406.0'

406.0' Altered Anorthosite — Medium altered. Massive. Indistinct texture, but certainly porphyritic. Decreasing alteration. Rock becomes fresher down the hole.
429.0' Increasing alteration, culminating in a 2', highly altered (chloritized) section, cut by a couple of 2" calcite stringers, normal to core. Rock remains very slightly altered with highly silicified sections from 445.0'.
454.5' 3' highly altered rock again. Massive. Black chloritized.

458.0'

458.0' Anorthosite — Unaltered to very slightly altered. Massive. Colour is dirty white with pale greenish-grey sericitized spots and patches.

527.0'

527.0' Altered Anorthosite — Slightly to medium altered with sections of highly altered anorthosite and highly altered (sericitized) rock.

540.0'

540.0' Altered Zone — Massive. Green sericitized. Contains narrow sections of highly altered anorthosite. Scattered patches of brown leucoxene.
Also a few narrow intersections in which chlorite is predominant, giving rock a black colour.
551.3' a 10" calcite chlorite stringer at about 40o to cn.. The white calcite contains irregular patches of bright green chlorite. Also a few patches of pyrrhotite and pyrite. About 1% sulphides for 5'.

564.5'

564.5' Altered Anorthosite — Slightly altered. Massive. Porphyritic texture. Slighly chloritized and sericitized mafics.

606.0'

606.0' Altered Zone — Greenish-yellow. Sericitized, massive. Contains narrow sections of highly altered anorthosite.
617.0' 12" calcite stringer with patches of green chlorite.

620.8'

620.8' Altered Anorthosite — Highly altered. Massive. Dirty greenish-grey in colour with faintly visible porphyritic texture.
630.3' 2' of highly altered rock which is black chloritized and massive.
632.7' Altered Anorthosite as 620.8'.
652.5' 10" highly altered rock. Massive. Black chloritized.
657.0' 10" highly altered rock as 652.5'.
660.0' Rock becomes almost unaltered.

660.0'

660.0' Anorthosite — Relatively unaltered. Massive. Texture is same as foregoing rock. Colour is dirty white with numerous small, greenish chloritized spots. Also many small spots of mauve calcite and mauve leucoxene (carbonitized).

739.6'

739.6' Altered Zone — Black, chloritized. Spotted with numerous, irregular spots of sericite-saussurite. Abundant small spots of mauve-brown leucoxene. Cut by a number of narrow, parallel calcite stringers at about 55° to cn..
748.0' Sericite becomes predominant. Colour changes to pale to medium grey-greenish-white.
767.0' More calcite appears, occuring in large spots all through core.
772.5' 12" which show distinct shearing and foliation at about 30° to cn.. No mineral.
802.0' Rock shows linsation again at about 30° to cn..

806.3'

806.3' Ore Zone — Very low grade ore. About 20% sulphides, but almost all of it is pyrite. Pyrite occurs in fine grained bands and streaks in the schistosity planes. Alternating with greyish carbonate and green chlorite.

812.5'

812.5' Mineralized Altered Rock — Same as foregoing but less sulphides (5%).

834.0'

834.0' Altered Zone — No more mineral. Dark chloritized. Mottled, massive.
857.0' Rock becomes rich in chloritoid and shows lineation at about 45° to cn..
871.0' Patches of fine grained pyrite appear. Still lots of chloritoid and carbonate.

876.0' a 10" quartz calcite stringers without visible contacts. Mineralization increases slightly.

889.6'

889.6' Low Grade Ore Zone

Still some chloritoid with carbonate. 20-30% sulphide, mostly pyrite.

902.0'

902.0' Altered Zone

Mineralization ends with sharp contact (or rock type changes) at about 30° to cn.. Rock becomes green-black chloritized. No more chloritoid or carbonate, except for a few calcite stringers at various angles. Mottled. (sericite-saussurite spots).
908.0' Sharp change in texture. Sericite and carbonate (calcite) become predominant. Rock looks brecciated.

929.1'

929.1' Altered Anorthosite

Massive, slightly to medium altered, becoming slightly altered further down the hole. Porphyritic in texture. In general pale greyish in colour. Interstices mostly slightly to medium chloritized with mauve calcite. Especially those sections, which show well developed tombstone texture.

975.2'

975.2' Anorthosite

Unaltered. Massive. Coarse porphyritic. Slightly chloritized interstices.

982.2'

982.2' End of the hole.

D.D.H. T-142

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
5408	355.0	360.0	5.0	TR.	0.10
5409	360.0	365.0	5.0	TR.	0.20
5428	805.0	810.0	5.0	0.0225	0.60
5429	810.0	815.0	5.0	0.030	0.80
5430	815.0	820.0	5.0	0.010	0.80
5431	820.0	825.0	5.0	0.0275	0.60
5432	825.0	830.0	5.0	TR.	0.20
5433	830.0	835.0	5.0	0.020	0.50
5615	870.0	875.0	5.0	0.020	0.20
5616	875.0	880.0	5.0	0.010	0.10
5617	880.0	885.0	5.0	0.010	0.10
5618	885.0	890.0	5.0	0.010	0.20
5619	890.0	895.0	5.0	0.015	0.40
5620	895.0	900.0	5.0	0.0275	0.50
5621	900.0	902.5	2.5	0.020	0.20
Avge	805.0	835.0	30.0	0.018	0.58
	890.0	902.5	12.5	0.020	0.40

D.D.H. T-145

Location : L22S 485'N

Started : April 4th. 1957.
Completed : April 9th. 1957.
Logged by : J. Koens and C. Krause.

Dip at collar : 90°
at 150.0' : 87°30'
at 400.0' : 86°15'

Core Size : A.X.T.

Length of hole : 501.2'

0.0 Casing

125.0'

125.0' Anorthosite — Relatively unaltered. Porphyritic texture of slightly sericitized and epidotized feldspar in a dirty white to grey-green, probably also feldspathic matrix. Massive. Contains narrow sections which look slightly oxidized or weathered and a few short, dark grey, highly chloritized sections.
193.5' Matrix becomes more chloritic, grey-green, and in places pinkish carbonitized.

228.2'

228.2' Highly Altered Mineralized Zone
Abrupt transition from above. Dark grey-green chlorite schist. Sparse pyrite, chalcopyrite at first, oxidized for the most part.
238.7' Ore zone. Mineralization increases to 80% of rock in places, over all about 30% of rock mostly pyrrhotite with fair chalcopyrite. Mineral occurs in quartz-calcite brecciated zones and in irregular streaks. Fair amount of grey carbonate in patches and irregular streaks.
5.5' quartz calcite brecciated zone, 40-50% massive, pyrrhotite, chalcopyrite (1.5 - 2% copper) at 238.7'. Near contact at 50° to cn., far contact steep.
254.0' Lineation and shearing become very pronounced. 35-65° to cn.. Mineralization decreases to about 15% and is predominantly pyrite, pyrrhotite in streaks and bands, parallel to shearing, mostly associated with carbonate.
8" coarse grained grey carbonate vein at 30° to cn., at 271.5'.
294.2' Texture of zone becomes very coarse. Black chloritized phenos are elongated parallel to shearing at 35° to cn.., mineralization decreases to sparse, brown leucoxene common. Cut by fine grey carbonate stringers.
302.7' Grey-green chloritization again, well sheared as before. Mineralization increases to 20-30% and in places 90%, is mostly pyrite, pyrrhotite with fair chalcopyrite. (1-1.5% copper). Contains several quartz calcite brecciated zones that are pitted and numerous, irregular grey carbonate streaks.
322.5' Numerous parallel bands and streaks of fine grained pyrite alternate with carbonate and sericite-chlorite, making low grade ore. 30° to cn..

337.2'

337.2' End of Mineralization.

Black chloritized. Relatively massive. Contains much carbonate in irregular white patches and streaks. Mostly with borders of bright green chlorite.

374.7' Sericite becomes predominant while colour changes to pale greyish green-black. Contains patches of brown leucoxene and large, irregular spots of calcite.

385.7' lost core for about 9'.

395.0' Sericitized rock again. Especially the pale greenish-grey sericite spots are medium to highly carbonitized. Rock contains many patches of mauve calcite (with leucoxene ?).

421.8'

421.8' Altered Anorthosite

Massive. Medium to highly altered with continuous slight decreasing alteration. Indistinct coalescing to medium porphyritic texture. Various sized feldspar-phenos occur in a greyish to greyish-white matrix.

459.0' Well developed tombstone texture for about 6'.

465.0'

465.0' Highly Altered Anorthosite

Sericitized, carbonitized with a few blebs of chalcopyrite and pyrrhotite. Decreasing alteration, proceeding down the hole.

477.0'

477.0' Anorthosite

Relatively unaltered to very slightly altered. Indistinct but still porphyritic texture. Massive. Dirty greyish-white in colour.

501.2'

501.2' End of the hole.

D.D.H. T-145

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5556	228.5	233.5	5.0	TR.	0.10		
5557	233.5	238.5	5.0	0.010	0.20		
5558	238.5	244.5	6.0	0.045	2.20		
5559	244.5	249.5	5.0	0.0325	0.40	0.222	0.074
5560	249.5	254.5	5.0	0.020	0.80	0.248	0.100
5561	254.5	259.5	5.0	0.020	0.50	TR.	0.094
5562	259.5	264.5	5.0	0.0225	0.60	0.100	0.094
5563	264.5	269.5	5.0	0.010	0.50	0.120	0.078
5564	269.5	274.5	5.0	TR.	0.50	0.164	0.052
5565	274.5	279.5	5.0	0.010	0.40	0.182	0.084
5566	279.5	284.5	5.0	0.010	0.30	0.220	0.088
5567	284.5	289.5	5.0	0.010	0.50	0.100	0.052
5568	289.5	294.5	5.0	0.025	0.60	NIL	0.060
5569	294.5	302.0	7.5	0.010	0.30	NIL	0.032
5570	302.0	307.0	5.0	0.010	1.10	0.460	0.136
5571	307.0	312.0	5.0	0.010	0.90	0.230	0.204
5572	312.0	315.7	3.7	0.175	2.90	0.340	0.186
5573	315.7	320.7	5.0	0.010	0.90	0.150	0.082
5574	320.7	325.0	4.3	0.020	1.50	0.150	0.100
5399	325.0	330.0	5.0	0.010	0.30		
5400	330.0	335.0	5.0	0.025	0.40		
5349	335.0	337.5	2.5	0.020	0.20		
Avge	238.5	325.0	86.5	0.020	0.84		
	302.0	325.0	23.0	0.038	1.38	0.263	0.140

D.D.H. T-146

Location : 4238 630'N

Started : April 5th. 1957.
Completed : April 12th. 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at 200.0' : 89°
at 400.0' : 85°

Core Size : A.X.T.

Length of hole.: 485.0'

0.0 Casing

126.0'

126.0' Anorthosite — White, relatively unaltered with coalescent texture. Some short green, highly altered patches.
153.0' Lost core.
154.8' Coarse as before, but with green to black phenocrysts.
163.0' Patch of green chlorite alteration.
164.2' Lost core.
165.2' Unaltered anorthosite but with abundant coarse, dark green phenos.
176.0' Lost core.
178.0' As before, but core kaolinized and weathered.
181.0' Lost core.
182.3' As above.
184.0' Lost core.
185.5' As above.
189.0' Lost core.
189.8' As above.
191.0' Lost core.
192.0' As above.
194.0' Lost core.
194.7' Highly altered zone, rusty and weathered with 2" patch of massive pyrite at 197.0'.
198.0' Lost core.
199.0' Green, highly sericitized, mottled with green sericite-saussurite.
203.0' White, coalescent, lightly altered anorthosite.

253.0'

253.0' Altered Anorthosite — Lightly to moderately chloritized, retaining about 30% white plagic phenos.
263.5' Lost core.
265.0' As before, rusty and pitted.
267.0' Lost core.
268.5' Alteration stronger, core broken and weathered.
270.0' Lost core.
271.5' Very highly chloritized with a few patches of recognizable anorthosite which are highly sericitized. Sparse pyrite, pyrrhotite.

290.0'

290.0' Altered Zone — Dark green chlorite alteration, fairly massive with a few patches of leucoxene.

292.5' Lost core.
294.0' Same, but core rusty and vuggy with about 5% patchy pyrite, pyrrhotite, sparse chalcopyrite.
300.0' Black chlorite alteration, mottled with pale green sericite saussurite and sheared at about 50-55° to cn..
Abundant fine leucoxene. Sharp 45° contact to 306.0'.

306.0'

306.0' Ore Zone — Green, chlorite alteration, weakly sheared at about 50-60° to cn., mineralized with 2-3% chalcopyrite as irregular, fine veins and blebs.
50% pyrrhotite over 1' at 315.5'.
322.0' 50% pyrrhotite, pyrite, 1-2% chalcopyrite in a chloritic gangue. Sheared at about 45° to cn..
Sparse coarse ankerite.
335.0' Mineralization decreases to about 25% fine pyrite, pyrrhotite along schistosity, 1-2% chalcopyrite in irregular veins, some cutting through pyrite. Fairly abundant, fine grey ankerite along pronounced 60° cn. schistosity. Grades to 347.0'.

347.0'

347.0' Altered Zone — Black chlorite alteration, mottled with green sericite-saussurite along strong 55° cn. shearing. Scattered patchy leucoxene, sparse sulphides.
350.0' Dark green chlorite alteration, sheared at about 60° to cn. with patchy fine sulphides, some rusty leaches patches.
359.0' Black chlorite alteration, strongly sheared at 45-50° to cn. with sparse pyrite, a little ankerite, abundant brown leucoxene.
391.0' Becomes dark grey with weak shearing, very abundant, irregular calcite stringers, patchy, fine brown leucoxene.
385.0' Lost core.
386.0' Becomes light coloured, highly sericitized. Core is rusty and weathered.
388.5' Lost core.
390.0' As above.
392.0' Lost core.
393.0' Core as before, rusty, vuggy and weathered.
402.0' Core is fresh in pale green, strong sericite alteration.
Grades to 410.0'.

410.0'

410.0' Altered Anorthosite — Very coarse, highly sericitized, but retaining anorthosite texture.
Abundant, irregular, white calcite stringers.
8" sharply defined 30° grey dyke at 414.5'. Grades to 425.0'.

425.0'

425.0' Anorthosite — Lightly sericitized and chloritized, very coarse grained, porphyritic. Plagio in patches has a zones appearance.

449.0'

449.0' Cremstone Dyke — Green, fine, massive, probably about a diorite in composition. Margins chilled, grey, sharp approx. 30° cn..

454.0' Anorthosite — 454.0' Very coarse, porphyritic, relatively unaltered. Matrix is in places pink.

485.0' End of the hole. — 485.0'

D.D.H. T-146

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5350	195.0	198.0	3.0	0.030	1.30		
5601	290.0	292.5	2.5	TR.	0.10		
5602	294.0	300.0	6.0	0.010	0.20		
5603	300.0	306.0	6.0	TR.	0.30		
5604	306.0	310.0	4.0	0.010	0.40	NIL	TR.
5605	310.0	315.0	5.0	0.030	1.20	0.020	0.048
5606	315.0	320.0	5.0	0.020	0.80	0.366	0.052
5607	320.0	322.0	2.0	0.015	0.10		
5608	322.0	325.0	3.0	0.010	0.30	0.268	0.146
5609	325.0	330.0	5.0	0.020	0.30	0.688	0.218
5610	330.0	335.0	5.0	0.015	0.70	0.178	0.274
5611	335.0	340.0	5.0	0.020	0.50	0.162	0.126
5612	340.0	345.0	5.0	0.015	0.90	0.168	0.056
5613	345.0	347.0	2.0	0.010	0.30	0.228	0.128
5614	347.0	350.0	3.0	0.010	0.20		
5448	350.0	355.0	5.0	TR.	0.30		
5449	355.0	360.0	5.0	0.010	0.20		
5450	360.0	365.0	5.0	0.010	0.20		
Avge	310.0	320.0	10.0	0.025	1.00		
	310.0	345.0	35.0	0.019	0.66	0.194	0.094

D.D.H. T-147

Location : L24E 339'N

Started : April 5th, 1957.
Completed : April 14th, 1957.
Logged by : J. Koene and N. Vollo.

Dip at collar : 90°
at 300.0' : 90°
at 600.0' : 88°30'
at 900.0' : 88°30'

Core Size : A.X.T.

Length of hole : 966.2'

0.0 Casing

105.0'

105.0' Anorthosite — Unaltered. Massive. 90% feldspar, dirty white in colour. Porphyritic texture with mauve calcite in interstices and a number of scattered patches of brown leucoxene.
Contains a few very narrow sections of highly altered anorthosite or highly altered zone, mostly cut by a calcite or calcite-quartz stringer.
154.0' 8' of rock in which occur numerous grey-green, rounded phenos of sericitized material, probably feldspar.
177.0' As 154.0', but now also some chlorite in the phenos, which give rock a pronounced, spotty character.

179.2'

179.2' Altered Zone — 4' section of highly altered, black chloritized, mottled rock. Massive.

183.5'

183.5' Anorthosite — As 177.0'. Massive rock with abundant rounded to subhedral, soft, sericitized phenos in a white, hard, carbonitized matrix. Probably a sericite alteration of original feldspar, beginning in the centres of the original phenos, leaving the borders of these feldspar phenos not altered.
Contains a number of very narrow sections of highly altered rock in which sericite and chlorite exist in equal amounts.

270.8'

270.8' Altered, Weathered Zone for about 15' — Massive. Black-greenish-brown, soft rock. Sericitized. Brown patches and streaks, due to oxidized iron.
285.8' Sericitized anorthosite as 183.5'.
315.5' Alteration increases. More sericite appears. Colour becomes more greenish-yellow. Irregular calcite stringers appear, cutting core at various angles. Texture becomes very indistinct, probably original porphyritic.

329.0'

329.0' Altered Zone — Massive. Equal amounts of sericite and chlorite. Sericite predominant in spots and patches occuring in large, rounded, greenish spots.
Contains a few patches of pyrrhotite and pyrite.

336.0' 8' intersection of highly altered anorthosite with coarse porphyritic, original texture, containing mauve calcite. After that, highly altered rock again as 329.0'.

362.2'

362.2' Altered Anorthosite — Massive. Porphyritic texture. Grey in colour. Contains several narrow zones and patches, whixh are relatively highly altered and show no distinct texture.
Feldspar phenos in the less altered parts are sometimes epidotized.

444.7'

444.7' Altered Zone — Massive. Sericite predominant. Greenish-grey with bright yellow green spots. Cut by numerous irregular calcite stringers at various angles. Contains narrow patches with distinct, porphyritic anorthosite texture.
518.6' Mineral appears in a few scattered patches. Mostly pyrite.
539.0' Rock contains more than 60% coarse grained siderite-ankerite. Mineral increasss.

549.5'

549.5' Ore Zone — High grade ore, but mostly massive, fine grained pyrite. First 5' have about 90% sulphides. In general 50-60% for about 20'. Contains a few, narrow patches of massive siderite.

572.0'

572.0' Highly Altered Mineralized Zone
Mineralization is decreasing. Colour of rock is bright green, due to massive chlorite. Still sheared at about 45° to cn.. Contains patches of massive, coarse grained siderite.

575.5'

575.5' High Grade Ore Zone — 70-80% sulphides. All of it is pyrite.

581.3'

581.3' Low Grade Ore — 20-30% sulphides. Mostly pyrite. Also some coarse grained siderite and bright green chlorite.

595.7'

595.7' Highly Altered Zone — Contains only a few blebs of pyrite at irregular intervals. Indistinctly sheared at about 50° to cn.. Chlorite is predominant. A few scattered patches of brown leucoxene, very slightly mineralized with pyrite. Not enough to make ore. Also a very few blebs of chalcopyrite. Chloritoid occurs at irregular intervals all through core, accompanied by calcite quartz and fine grained pyrite in the schistosity planes (55° to cn..)
765.0' More uniform chlorite alteration with patches of chloritoid, no leucoxene.
Moderately to strongly sheared at 55-60° to cn. Sparse disseminated granular pyrite.
787.0' Grey, dense, brecciated quartz with a little ankerite and chlorite, no sulphide.

790.0' Same, but intensely sheared at 55-60° to cn., giving a fine grained appearance.
794.0' Black chlorite alteration, mottled with pale green sericite saussurite along strong 45-50° cn. schistosity.
806.0' Same, but shearing gradually decreases, disappearing on contact to 816.5'.

816.5'

816.5' Altered Anorthosite Pale yellowish-grey, very highly sericitized, but retaining anorthosite texture. Abundant brown, altered leucoxene.
837.0' Highly sericitized, pale grey-green in colour with anorthosite texture faintly visible.

861.0'

861.0' Anorthosite Massive, slightly altered to unaltered. Slightly sericitized and chloritized. Porphyritic.
895.8' 3" greenish, fine grained quartz with mauve calcite and black, hard amphibole crystals. We find this kind of rock (amphibole, mauve calcite) also at 898.0' and in a about 3' zone from 905.0'. After that, slightly altered, massive.anorthosite again. Contains small patches of brown leucoxene.
950.0' 2' of highly altered anorthosite.
952.1' Unaltered, massive. Anorthosite. Same texture and appearance as 861.0'. Looks more fresh.

966.2'

966.2' End of the hole.

D.D.H. T-147

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
5434	518.5	520.0	1.5	0.025	1.10
5435	520.0	522.0	2.0	0.020	0.30
5436	522.0	525.0	3.0	0.035	0.50
5437	525.0	532.0	7.0	0.020	0.20
5438	532.0	535.0	3.0	0.035	0.70
5439	535.0	540.0	5.0	0.020	0.60
5440	540.0	547.0	7.0	0.025	0.10
5441	547.0	550.0	3.0	0.030	0.60
5442	550.0	555.0	5.0	0.055	0.70
5443	555.0	560.0	5.0	0.045	0.50
5444	560.0	565.0	5.0	0.025	0.30
5445	565.0	570.0	5.0	0.020	0.20
5446	570.0	571.5	1.5	0.020	0.20
5447	571.5	575.0	3.5	0.015	TR.
5584	575.0	580.0	5.0	0.0275	0.80
5585	580.0	582.0	2.0	0.020	0.50
5586	582.0	588.0	6.0	0.020	0.10
5587	588.0	591.5	3.5	0.020	0.40
5588	591.5	595.0	3.5	0.0175	0.40
5589	595.0	600.0	5.0	0.010	0.30
5590	620.0	625.0	5.0	0.010	0.20
5591	625.0	629.0	4.0	TR.	TR.
5592	629.0	631.0	2.0	0.030	0.20
5593	631.0	632.0	1.0	0.010	0.20
5594	632.0	635.0	3.0	0.010	0.20
5595	635.0	640.0	5.0	0.020	0.30
5644	665.0	670.0	5.0	0.015	0.20
5645	670.0	675.0	5.0	0.010	0.20
5646	675.0	680.0	5.0	TR.	0.30
5647	680.0	685.0	5.0	0.010	0.20
5648	685.0	690.0	5.0	0.010	0.70
5649	690.0	695.0	5.0	TR.	0.70
5650	695.0	700.0	5.0	TR.	0.30
5651	700.0	705.0	5.0	0.010	0.20
5652	705.0	710.0	5.0	0.010	0.20
5653	710.0	715.0	5.0	TR.	0.20

Sample number	Section of hole From	To	Sample length	Gold oz/Ton	Copper %
5654	715.0	720.0	5.0	0.010	0.30
5655	720.0	725.0	5.0	0.010	0.20
5656	725.0	730.0	5.0	0.020	0.30
5657	730.0	735.0	5.0	0.010	0.20
5658	735.0	740.0	5.0	TR.	0.20
5659	740.0	745.0	5.0	0.010	0.10
5660	745.0	750.0	5.0	0.020	0.50
5693	750.0	755.0	5.0	0.015	0.20
5694	755.0	760.0	5.0	0.010	0.10
5695	760.0	765.0	5.0	0.015	0.10
5696	765.0	770.0	5.0	0.020	0.20
5697	770.0	775.0	5.0	0.010	0.20
5698	775.0	780.0	5.0	0.010	TR.
5699	780.0	787.0	7.0	0.010	0.20
5700	787.0	790.0	3.0	0.015	0.30
5701	790.0	794.0	4.0	0.010	0.10
Avge	518.5	540.0	21.5	0.025	0.48
	547.0	571.5	24.5	0.034	0.43
	518.5	582.0	35.0	0.030	0.45
	575.0	600.0	25.0	0.019	0.40

D.D.H. T-148

Location : 125E 221'N

Started : April 7th, 1957.
Completed : April 26th, 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at 1070.0' : 87°30'

Core Size : A.X.T.

Length of hole : 1072.0'

0.0 Casing

165.0'

165.0' Anorthosite White, lightly altered, porphyritic, with grey-green, highly sericitized patches. Core is kaolinized and rotten in places.
206.0' Core is fresh, solid, yellowish-white, coalescent, uniform unaltered anorthosite.
294.0' Becomes lightly sericitized.
300.0' Becomes highly sericitized, green-grey, with abundant fine leucoxene.
312.0' Uniform, relatively unaltered, medium to coarse, coalescent, with patches of porphyritic sections. Plagio content about 90%.

543.0'

543.0' Altered Anorthosite
Green, highly chloritized, but retaining anorthosite texture. Patchy chalcopyrite, pyrite, sphalerite over 1' at 571.5'.
Good chalcopyrite, pyrite over 8" at 575.6'.

576.4'

576.4' Anorthosite Coarse, porphyritic, with a greenish cast, slightly chloritized. Grades to 612.0'.

612.0'

612.0' Altered Anorthosite
Grey-green, highly sericitized, with abundant fine pink leucoxene. Grades to 618.5'.

618.5'

618.5' Altered Zone Strong, bright green, sericite chlorite alteration, with patches of yellowish epidote, clinozoisite, probably representing original plagio. About 25-30% calcite as fine, irregular stringers. Abundant pink leucoxene.
650.0' Lost core.
656.0' Green sericite chlorite alteration, moderately sheared at 45-55° to cn., with abundant calcite stringers and leucoxene.
665.0' Becomes intensely sheared parallel to core axis.
668.0' Strongly sheared at variable angle to core, but generally at about 80° to cn.. Lightly mineralized with fine pyrite, sparse chalcopyrite. Irregular chrome mica parallel core axis from 672.5' to 674.0'.
675.0' Green chlorite alteration, strongly sheared at 45-55° to cn., cut by fine calcite veinlets, some grey quartz. Lightly mineralized with 2-3% pyrite along schistosity.
699.0' Lost core.

701.0'

701.0' Sulphide Zone — 15-20% pyrite in green chlorite alteration, strongly sheared at 45-50° to cn.. Some patches of brecciated quartz conformable to schistosity. Sparse chalcopyrite.
712.0' Pyrite decreases to about 5% with patches of coarse siderite and grey quartz. Sparse pyrrhotite.

717.0' Altered Zone 717.0' Green, chlorite chloritoid alteration, strongly sheared at 45-50° to cn., with patches chloritoid. Very irregular sericite-saussurite mottling, scattered veins of grey quartz along schistosity. Abundant leucoxene, 5% pyrite as scattered stringers along schistosity.
775.0' Same, but with very little pyrite. Vein of coarse siderite normal to schistosity at 832.0'.
Abundant chloritoid.
829.0' Shearing becomes stronger at 50-60° to cn., with a few patches of pyrite, patchy chloritoid and leucoxene, some sericite-saussurite mottling along schistosity.
905.5' Grey, brecciated quartz with patches of ankerite, 10-15% pyrite at 45° to cn..
907.0' Green, chlorite alteration, mineralised with 10-15% patchy pyrite, fairly massive. Abundant phenocrysts of a coarse, black hard non metallic, possibly coarse chloritoid?
Sharp 50° cn. contact to 917.5'.

917.5'

917.5' Quartz — Brecciated, grey quartz, lightly mineralized with pyrite.
919.0' Same, but with inclusions of black chlorite and coarse siderite.
921.0' Barren white quartz with a little calcite as fine stringers.
924.5' Altered Zone. Green chlorite alteration, with sparse chloritoid.
1.5' irregular white quartz at 928.5'.
Scattered patches of grey quartz and siderite.
934.0' Pale grey-green, sericite alteration, with coarse sericite saussurite mottling, patchy fine chloritoid.
945.0' Same, but with no chloritoid, abundant leucoxene.
Grades to 982.0'.

982.0'

982.0' Altered Anorthosite — Bright, light green, very highly sericitized, but with coarse, anorthosite texture, still recognizable. Abundant brown leucoxene. Numerous calcite stringers. Grades to 1036.0'.

1036.0'

1036.0' Anorthosite — White, coarse, unaltered.

1072.0'

1072.0' End of the hole.

D.D.H. T-148

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %
5791	570.0	573.0	3.0	0.020	0.40	TR.
5792	575.5	576.5	1.0	0.015	2.30	
5801	668.0	672.5	4.5	0.010	0.60	
5802	672.5	675.0	2.5	0.020	0.10	
5839	675.0	680.0	5.0	0.030	0.50	
5840	680.0	685.0	5.0	0.010	0.10	
5841	685.0	690.0	5.0	TR.	0.10	
5842	690.0	695.0	5.0	0.010	0.20	
5843	695.0	699.0	4.0	0.020	0.30	
5844	701.0	705.0	4.0	0.050	0.50	
5845	705.0	710.0	5.0	0.010	0.20	
5846	710.0	715.0	5.0	0.010	0.10	
5847	715.0	720.0	5.0	0.025	0.20	
5848	720.0	725.0	5.0	0.030	0.10	
5862	875.0	880.0	5.0	0.015	0.10	
5851	880.0	885.0	5.0	0.010	0.20	
5852	885.0	890.0	5.0	0.010	0.10	
5853	890.0	895.0	5.0	0.020	0.10	
5854	895.0	900.0	5.0	TR.	0.10	
5855	900.0	905.8	5.8	0.010	0.10	
5556	905.8	907.4	1.6	0.030	0.10	
5857	907.4	910.0	2.6	0.030	0.10	
5858	910.0	915.0	5.0	0.010	0.20	
5859	915.0	917.5	2.5	0.010	0.10	
5861	917.5	920.0	2.5	0.010	0.10	
5860	920.0	925.0	5.0	0.010	0.10	
Avge	668.0	699.0	31.0	0.015	0.28	
	701.0	725.0	24.0	0.024	0.21	

D.D.H. T-149

Location : L23E 67'S

Started : April 6th. 1957.
Completed : April 14th. 1957.
Logged by : N. Vollo.

Dip at collar : 90o
at 500.0' : 89°
at 800.0' : 87°

Core Size : A.X.T.

Length of hole : 872.0'

0.0 Casing

188.0'

188.0' Anorthosite Coarse, white porphyritic with some grey, zoisitized patches.
2' black chlorite alteration at 211.5'.
228.0' Becomes grey, zoisitized and epidotized with abundant black phenocrysts, scattered 2-6" patches of black chlorite alteration.
267.0' Less zoisitized with a few black phenos, occasional patches of disseminated ilmenite.
277.5' Lost core.
279.5' Grey strongly epidotized and zoisitized.
283.5' Lost cofe.
286.0' As above.
287.5' Relatively unaltered, coalescent with about 50% patches of green to black chloritization up to 5' in core length.
312.0' Lost core.
314.0' Black, highly chloritized.
316.0' Lost core.
317.0' 60% unaltered, coalescent anorthosite, 40% black chlorite alteration.
333.0' Lost core.
334.0' As before.
365.0' White coalescent, lightly sericitized with a few narrow patches of black chloritization. Becomes more sericitized and grades into 410.0'.

410.0'

410.0' Altered Anorthosite
Pale green, moderately sericitized with patches of unaltered anorthosite.
430.0' Becomes yellowish-white, very highly sericitized with anorthosite texture, practically obliterated.

456.0'

456.0' Altered Zone Strong sericite alteration with minor chlorite, mottled with green sericite-saussurite. Abundant fine, irregular calcite stringers, mostly parallel to core axis.
Abundant fine, pink leucoxene, sparse disseminated pyrite.
449.5' Same, but with a little grey quartz and mineralized with about 5% chalcopyrite.
452.6' Strong pale yellow-green sericite alteration with sericite- saussurite mottling, fairly abundant, fine pink leucoxene. Very abundant calcite stringers up to 3/4", averaging, at about 30° to cn..

505.0' Same, but with light disseminated chalcopyrite.
510.0' Strong sericite alteration with minor sericite-saussurite. Abundant, irregular calcite stringers.
515.5' Lost core.
517.5' As before.
543.0' Same, but mineralized with 1-2% disseminated chalcopyrite. Abundant very coarse brown altered leucoxene.
544.0' Grey to dark grey sericite chlorite alteration with fair leucoxene, abundant calcite stringers.
555.0' Lost core.

556.5'

556.5' Ankerite Pyrite Zone — 30% coarse, grey ankerite in highly sheared 55° cn., black chlorite alteration. Sparse pyrite.
561.0' Same, but with a few stringers of massive pyrite up to 2", along 50-55° cn. schistosity.

566.0'

566.0' Altered Zone — Dark grey sericite chlorite alteration, sheared at about 50° to cn. with abundant brown leucoxene.
573.0' Green chlorite chloritoid schist, sheared at about 50-55° to cn.. Abundant brown leucoxene.
579.5' Lost core.
583.0' As before.
594.0' Becomes more green with sericite-saussurite mottling. Abundant chloritoid. Abundant brown leucoxene.
632.0' Shearing becomes very faint, chloritoid disappears. Alteration is dark grey-green. Chlorite sericite type, mottled with green sericite saussurite. Relatively sparse leucoxene.

652.0'

652.0' Altered Dyke (?) — Massive, fine grained, chloritized, carbonitized and pyritized, green dyke with some porphyritic sections strongly resembling carbonitized peridotite. Abundant irregular calcite stringers, light fine chalcopyrite. Poorly defined contact to 667.0'.

667.0'

667.0' Altered Zone — Strong dark grey-green chlorite-sericite alteration with patches of yellow, faintly recognizable anorthosite. Abundant, irregular calcite stringers. Abundant brown leucoxene. Contact destroyed to 676.0'.

676.0'

676.0' Altered Dyke — Massive, chloritized, carbonitized and pyritized with 1 mm. white phenos in a green matrix. Sparse patchy chalcopyrite.

684.0'

684.0' Altered Zone — Green, massive, highly chloritized, silicified, carbonitized and possibly serpentinized. May be alteration of preceding dyke. Contains abundant course phenocrysts of a black non metallic, hardness about 4. Mineralized with coarse, disseminated pyrite. No leucoxene. Grades into 705.0'.

705.0'

705.0' Sulphide Zone — About 35% fine to medium grained patchy pyrite in a chloritic matrix, strongly silicified and carboritized.
Good chalcopyrite over 8" at 722.0'. Poorly defined ~~x~~ schistosity at 40-50° to cn..
725.0' Grey, medium grained quartz- calcite ankerite vein with inclusions of black chlorite and a fine grained brown chlorite or mica. Sparse patchy pyrite.

730.0'

730.0' Altered Zone — Dark grey-green sericite chlorite alteration, mottled with fine sericite-saussurite and weakly sheared at about 45° to cn.. Abundant brown leucoxene. Shearing changes to about 65° to cn.. at 752.0'. Becomes strongly carbonitized and pyritized over a few inches near sharp 65° cn. contact to 754.5'.

754.5'

754.5' Grey Dyke — Grey, fine grained, fractured and cut by irregular calcite.
Sharp 45° contact to 757.0'.

757.0'

757.0' Greenstone Dyke — Green, fine, massive. Plagioclase mafic ratio at about 50 - 50.
1' irregular inclusion of gabbro or transition rock at 761.0'.
Becomes grey, chilled over 2" on sharp 55° contact to 770.2'.

770.2'

770.2' Anorthosite — Greyish with about 50% white euhedral plagio in a grey-green chloritized matrix.
6" white quartz at 785.7', containing coarse pyrite, a little chalcopyrite.
808.0' Coarse, white, relatively unaltered with good euhedral plagio.
865.0' Becomes very coarse grained, porphyritic.

872.0'

872.0' End of the hole.

D.D.H. T-149

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5548	449.5	452.5	3.0	0.140	3.60		
5549	505.0	510.0	5.0	0.010	0.40		
5639	542.8	543.8	1.0	0.010	0.70		
5640	550.0	555.0	5.0	0.010	0.10		
5641	556.5	561.0	4.5	0.010	0.20		
5642	561.0	567.0	6.0	0.010	0.10		
5643	567.0	570.0	3.0	0.010	0.20		
5691	675.0	680.0	5.0	0.010	0.30		
5678	680.0	685.0	5.0	0.010	0.30		
5679	685.0	690.0	5.0	TR.	0.20		
5680	690.0	695.0	5.0	0.010	0.30		
5681	695.0	700.0	5.0	0.010	0.30		
5682	700.0	705.0	5.0	TR.	0.30		
5683	705.0	710.0	5.0	0.010	0.10	0.140	0.112
5684	710.0	715.0	5.0	0.020	0.10	0.120	0.116
5685	715.0	720.0	5.0	0.020	0.30		
5686	720.0	722.0	2.0	0.015	0.20		
5687	722.0	723.0	1.0	0.025	1.70		
5688	723.0	725.0	2.0	0.025	0.30		
5689	725.0	730.0	5.0	0.010	0.20		
5690	730.0	735.0	5.0	TR.	TR.		
5751	785.5	786.5	1.0	0.010	0.20		
Avge	705.0'	725.0	20.0	0.018	0.26		

D.D.H. T-150

Location : L25E 570'N

Started : April 8th, 1957.
Completed : April 24th, 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at 400.0' : 88°30'

Core Size : A.X.T. and E.X.T.

Length of hole : 891.0'

0.0 Casing

60.0'

60.0' Anorthosite "Black" with black chloritized phenos in a white matrix.
86.0' Lighter coloured but with grey phenocrysts.
96.0' Normal, zoisitized and epidotized but with coarse euhedral plagioclase. Contains a few 4-6" patches of coarse leucoxene in a chlorite matrix, which contain good fine disseminated chalcopyrite.
115.0' Same, but core is pitted and rusty in places.
134.5' Unaltered white with coalescent texture.

160.0'

160.0' Altered Anorthosite
Becomes moderately chloritized and sericitized with core broken and weathered in places.

192.0'

192.0' Anorthosite White, medium to coarse coalescent, relatively unaltered.
241.0' Lost core.
242.0' As before.
248.5' Lost core.
250.0' Moderately chloritized, brecciated and vuggy.
252.0' Lost core.
265.5' Grey, moderately sericitized, retaining about 30% white plagio.
275.0' Relatively unaltered but with a tendency to reversed texture.
283.0' Same, core size changes to E.A.T. Some scattered patches of moderate sericite chlorite alteration.

374.0'

374.0' Altered Anorthosite
Grey-green, highly chloritized and sericitized, but retaining anorthosite texture and some white plagioclase.
380.0' Highly epidotized and zoisitized, retaining good euhedral plagioclase. Abundant coarse pink leucoxene.
392.0' Becomes strongly sericitized with patches of unaltered plagioclase.
400.0' Moderately sericitized with chloritized patches but generally retaining anorthosite texture. Patchy coarse leucoxene. Grades to 457.0'.

457.0'

457.0' Altered (Green Anorthosite) Transition Rock ?
Patchy, grey, coarse, highly zoisitized feldspar in a fairly massive green chloritized matrix. Scattered fine stringers of pyrite.

465.0' Very little plagio. Rock is fairly massive, green chlorite hornblende alteration with fine blebs and stringers of grey zoisite (?) mineralized with fine chalcopyrite, pyrite.
469.5' Same, but with 10-15% patchy, highly zoisitized palgio and with irregular blebs and fine stringers of yellow-green epidote. Sparse pyrrhotite and chlacopyrite.
475.0' About 40-50% highly zoisitized plagio in a green chlorite hornblende matrix.
Abundant irregular, bright yellow-green epidote. Occasional isolated stringers and patches of chalcopyrite and pyrrhotite. Sharp change to 500.0'.

500.0'

500.0' Greenstone Dyke — Massive, green, fine grained, speckled with fine white plagio.
508.0' Becomes sheared at 60° to cn. with shearing increasing down the hole. Mineralized with about 5% pyrite, sparse chalcopyrite.
Sharp 60° contact to 517.0'.

517.0'

517.0' Altered Zone — Green, chlorite sericite alteration, moderately sheared, very nearly parallel to core axis. A few scattered patches of pyrite, chalcopyrite. Abundant leucoxene.
525.0' Same, but with no sulphides.
531.0' Black chlorite alteration, intensely sheared parallel to core axis. Has a streaky banded appearance, due to green sericite-saussurite and grey ankerite along schistosity. Abundant leucoxene.
Scattered, very fine tension veinlets of calcite. Normal to schistosity.
560.0' Becomes mineralized with 15-20% fine pyrite, sparse patchy pyrrhotite along schistosity. Abundant fine grey ankerite.
567.0' Mineralization decreases to about 5% pyrite. Core angle at about 75° to cn.. Changing to 50-55° to cn. at 580.0'.
Good chalcopyrite over 5" at 583.0'.
586.0' Greenish, highly sericitized, highly sheared at 60-90° to cn. Sparse pyrite.
599.0' Dark grey to black chlorite, highly sheared, parallel to core axis, cut by irregular calcite stringers and micro faulted in places.
604.5' Well mineralized with pyrrhotite, some chalcopyrite with 4" massive pyrrhotite at 604.5'.
606.0' Green chlorite sericite alteration, sheared at about 55° to cn., with patchy leucoxene. Has a banded appearance, due to sericite-saussurite along schistosity.
Fair pyrite, chlacopyrite over 6" at 617.0'.
618.0' Shearing becomes very weak and coarse yellow, highly sericitized "phenocrysts" appear, probably originally plagioclase.
623.0' Black chlorite alteration with sericite-saussurite mottling which appears to follow original coarse anorthosite texture.
Good pyrite, some sphalerite over 8" at 628.0'.

631.5'

631.5' Altered Anorthosite — Very highly sericized with sericite-saussurite mottling, some patches of recognizable anorthosite. Occasional patches of pyrite with a few chalcopyrite stringers.

649.5' Lightly altered with 50-60% plagio in a sericitized matrix.
662.5' Dark grey-green, highly sericitized and chloritized, mottled with sedcite-saussurite. A few fine blebs chalcopyrite at 667.0'.

670.0'

670.0' Anorthosite — White, extremely coarse grained, porphyritic, relatively unaltered, with a few 4-8" chloritized patches. Grades to 746.0'.

746.0'

746.0' Altered Zone — Dark grey-green, chlorite sericite alteration, mottled with sericite-saussurite, massive except for strong, 40° cm. shearing from 750.5' to 751.5'.
6" quartz calcite, well mineralized with pyrite at 751.5'.

760.0'

760.0' Anorthosite — Coarse, white, porphyritic, relatively unaltered, with a few short sections of chlorite sericte alteration.

891.0'

891.0' End of the hole.

D.D.H. T-150

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Copper %
5793	465.0	470.0	5.0	0.020	0.40		
5794	470.0	475.0	5.0	0.010	0.30		
5828	508.0	510.0	2.0	0.020	0.40		
5829	510.0	515.0	5.0	0.040	0.40		
5830	515.0	520.0	5.0	0.010	0.30		
5831	520.0	525.0	5.0	TR.	0.60		
5832	560.0	565.0	5.0	0.010	0.70		
5833	565.0	567.0	2.0	0.010	0.40		
5834	567.0	570.0	3.0	0.010	0.30		
5835	570.0	575.0	5.0	0.020	0.20		
5456	575.0	580.0	5.0	0.010	0.50		
5457	580.0	583.0	3.0	0.010	0.40		
5458	583.0	585.0	2.0	0.020	1.50		
5459	585.0	590.0	5.0	0.015	0.60		
5460	590.0	595.0	5.0	0.010	0.50		
5461	604.5	606.5	2.0	0.020	0.70	0.304	0.082
5462	617.0	618.0	1.0	0.015	0.30		
5463	628.0	630.0	2.0	0.020	0.50		
5464	642.0	645.0	3.0	0.015	0.60		
Avgs	508.0	525.0	17.0	0.016	0.43		
	560.0	595.0	35.0	0.011	0.45		

D.D.H. T-152

Location : L20E 151'S

Started : April 6th, 1957.
Completed : April 11th, 1957.
Logged by : J. Koene and N. Vollo.

Dip at collar : 90°
at 200.0' : 90°
at 400.0' : 90°
at 700.0' : 88°30'

Core Size : A.X.T.

Length of hole : 803.0'

0.0 Casing

187.0'

187.0' Anorthosite — Relatively unaltered to slightly chloritized. Probably zoisitized. Massive. Porphyritic texture. Grey in colour. Contains narrow sections which are relatively more chloritized. Also some mauve calcite in the interstices.
262.0' Interstices completely filled with mauve calcite. Polka-dot texture appears for about 8'.
272.0' Rock-appearance changes. Feldspar phenos become highly sericitized. This process starts from the centre of the phenos, leaving an unaltered border of feldspar. This texture continues for about 35'.

309.0'

309.0' Highly Altered Anorthosite
Massive. Sericitized. Some parts also chloritized. Porphyritic texture still well visible.
Becoming black chloritized at 317.5'. From there, hardly recognizable texture, almost highly altered zone. Cut by a few calcite-quartz stringers at various angles.

338.0'

338.0' Highly Altered Zone
Massive. Chlorite and sericite in about equal amounts. Contains a number of irregular patches of calcite and is cut by a number of irregular calcite stringers. Contains a few patches of pyrite and chalcopyrite, not enough to make ore.
402.0' Chlorite becomes highly predominant, giving rock an intense black colour. Contains numerous irregular patches and spots of sericite-saussurite-carbonate.
421.0' Start of quartz carbonate zone. First 20" are barren quartz. The following 3' consist of siderite chlorite and pyrite.
437.0' Start of another quartz carbonate zone. Siderite-quartz chlorite and pyrite.
446.0' End of this calcite-quartz zone. Start of highly chloritoid rich rock with a few blebs and patches of pyrite and a lot of carbonate.
450.0' Mineralization increases slightly.
454.3' Mineralized quartz calcite zone. (pyrite).
461.0' End of quartz-calcite zone. Highly altered (chloritized) rock again with several patches of pyrite, perhaps enough to make very low grade ore.

475.5'

475.5' Very Low Grade Ore Zone

25% total sulphides. Mostly pyrite with a few blebs of pyrrhotite in highly chloritized, green matrix which looks fairly massive in general.

507.0'

507.0' Highly Altered Zone

Sericite becomes predomiat. Mottled texture. Only a few mineralized patches at irregular intervals.
551.0' 2' well mineralized rock.

588.0'

588.0' Altered Anorthosite

Medium grey-green, highly sericitized with minor chlorite. Anorthosite texture is faintly recognizable throughout. Abundant irregular 1/8-1" white calcite stringers with frequency increasing down the hole. Abundant brown altered leucoxene, occasional pyrite stringers. Good chalcopyrite over 1' at 618.5'.

648.0'

648.0' Altered Zone

Fine grained, massive, dark grey gree sericite chlorite alteration with sparse fine leucoxene.
Strongly carbonitized with sparse patchy pyrite.
Poorly defined contact to 657.0'.

657.0'

657.0' Altered Dyke (?)

Massive, fine grained, highly chloritized with fine white carbonitized phenocrysts. Abundant irregular calcite stringers. Mineralized with light fine disseminated chalcopyrite, pyrite and pyrrhotite.

671.5'

671.5' Sulphide Zone

High grade with 40% pyrite, 15% chalcopyrite, light pyrrhotite in a matrix of quartz.
173.5' 5-10% pyrite in a quzrt-chlorite matrix, weakly sheared at 55° to cn..
686.0' Start of 4.5' quartz-calcite zone with some black chlorite, some pyrite and seridte.

690.5'

690.5' Altered Rock

Black chloritized. Mottled texture, due to seridte-sassurite patches. Massive.
709.0' 1.5' of grey dyke. Contact not visible. Upper contact somewhere in altered rock. Perhaps 2' of foregoing rock(altered) belongs to this grey dyke, as texture of these 2' is entirely different of that of the highly altered rock. Dyke is grey. Massive, fine grained.
710.5' Highly altered rock again. With above mentioned texture.(mottled).
718.0' Reversed texture. Black chloritized spots in greenish-grey seridte-saussurite matrix.

733.0'

733.0' Altered Anorthosite

Massive. Well developed polka-dot texture. Fauve calcite in the interstices. Rounded feldspar phenos with black chloritized rims.

741.5'

741.5' Anorthosite

U altered. Massive. Fien prophyritic texture with a few large phenos of foldspar.
Greyish white in colour.
782.0' Texture changes to indistinct. Xx No phenos v. Hole.
Colour medium to pale grey. Rock is possibly high zoisitized and slightly silicified.

803.0'

803.0' End of the hole.

D.D.H. T-152

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
5622	374.5	375.5	1.0	0.015	7.00		
5623	375.5	380.0	4.5	TR.	TR.		
5624	395.0	400.0	5.0	0.010	0.30		
5625	400.0	405.0	5.0	0.010	0.30		
5626	420.0	425.0	5.0	TR.	0.10		
5627	425.0	430.0	5.0	0.010	0.10		
5628	430.0	435.0	5.0	TR.	0.10		
5629	435.0	440.0	5.0	0.020	0.20		
5630	440.0	445.0	5.0	0.010	TR.		
5631	445.0	450.0	5.0	0.020	0.30		
5661	450.0	455.0	5.0	0.020	0.20		
5662	455.0	461.0	6.0	0.010	0.10		
5663	461.0	465.0	4.0	0.010	0.10		
5664	465.0	470.0	5.0	0.020	0.20		
5665	470.0	475.0	5.0	TR.	TR.		
5666	475.0	480.0	5.0	TR.	0.20		
5667	480.0	485.0	5.0	0.010	0.30		
5668	485.0	490.0	5.0	0.010	0.20		
5669	490.0	495.0	5.0	0.010	0.20		
5670	495.0	500.0	5.0	0.020	0.20		
5671	500.0	507.0	7.0	0.010	0.30		
5672	507.0	510.0	3.0	0.010	0.40		
5673	510.0	515.0	5.0	0.010	0.10		
5674	515.0	520.0	5.0	0.010	0.10		
5675	520.0	525.0	5.0	0.0225	0.80		
5676	525.0	530.0	5.0	0.010	0.30		
5677	550.0	555.0	5.0	0.020	0.10		
5597	655.0	660.0	5.0	TR.	0.20		
5598	660.0	665.0	5.0	0.010	0.50		
5599	665.0	671.5	6.5	0.020	0.40		
5600	671.5	673.5	2.0	0.155	1.80	0.210	0.136
5692	673.5	675.0	1.5	0.020	0.30	0.170	0.180
5766	675.0	680.0	5.0	0.010	0.20		
5767	680.0	685.0	5.0	0.010	0.20		
5768	685.0	690.0	5.0	TR.	0.10		
5769	690.0	695.0	5.0	TR.	0.10		
Avge.	420.0	530.0	110.0	0.011	0.20		
	475.0	510.0	35.0	0.010	0.25		

D.D.H. T-153

Location : L22E 37'S

Started : April 10th, 1957.
Completed : April 26th, 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at 740.0' : 87°

Core Size : A.X.T.

Length of hole : 740.0'

0.0 Casing

187.0'

187.0' Altered Anorthosite
30% coarse, yellowish-white, altered plagio in a green matrix.

200.0'

200.0' Anorthosite Very irregular with yellowish-green altered plagio in a mineralized, grey, zoisitized matrix, with patches of reversed texture or black anorthosite. Patchy brown leucoxene.
266.0' Yellowish-white, coarse coalescent, relatively unaltered, with greenish, lightly chloritized sections.
298.5' Becomes chloritized, vuggy and rusty.
300.0' Rusty gossan with patches of massive chalcopyrite, some cuprite and other secondary copper minerals.
301.0' White, relatively unaltered, coalescent to porphyritic with a greenish cast.
349.0' Altered Zone. Black chlorite, sericite alteration, massive, mottled with sericite-saussurite.
Abundant leucoxene. 8" 30° cn. possible grey dyke at 352.5'.

355.5'

355.5' Altered Anorthosite
Pale yellow-grey, highly sericitized, with about 5-10% remaining, unaltered plagioclase. Grades to 366.0'.
366.0' Slightly darker grey-green, highly sericitized, with no remaining plagio. Colour darkens and alteration increases gradually down the hole. Anorthosite texture still visible.
393.0' Medium green, highly sericitized with some chlorite and only a few patches of recognizable anorthosite. Abundant brown leucoxene.
400.0' Bright green, highly chloritized and sericitized, with patches of recognizable anorthosite.
415.0' Same, but becomes sheared at about 50° to cn., with abundant irregular calcite veinlets. Patchy brown leucoxene.
431.0' Grey, fairly massive, very highly sericitized, with coarse white "spots", probably originally plagio. Abundant calcite veinlets, generally at about 10° to cn..

443.0'

443.0' Altered Zone Grey, strong sericite alteration, mottled with sericite-saussurite and with abundant irregular calcite veinlets, weakly sheared at about 55° to cn. Grades to 460.0'.
460.0' Black chlorite alteration, moderately sheared at about 65° to cn., with a few irregular calcite veins and stringers.
471.5' Green chlorite alteration, very strongly silicified and mineralized with 5-10% patchy pyrite along poorly defined 55-60° cn. schistosity.

479.0'

479.0' Quartz Ankerite Zone
Dense dark grey, brecciated quartz, mineralized with 15-20% pyrite.
481.0' 70-80% coarse ankerite with inclusions of grey quartz, black chlorite and a brown mineral or mineral agregate. Scattered 3/4-1" veinlets of white quartz. Grades to 490.5'.

490.5'

490.5' Altered Zone
Green chlorite chloritoid zone, with abundant leucoxene, moderately sheared at 45° to cn.. Occasional narrow veins of coarse siderite.
525.0' Same, but chloritoid sparse and patchy very little sulphide.
Grades to 550.0'.

550.0'

550.0' Sulphide Zone
Pale green, highly carbonitized, fairly massive, chlorite alteration, mineralized with 15-20% patchy pyrite, light chalcopyrite. Scattered patches of sericite-saussurite mottling, sparse leucoxene. Scattered irregular calcite stringers.

575.0'

575.0' Altered Zone
Dark green chlorite alteration, weakly sheared at about 45-50° to cn.. Fairly abundant leucoxene, lightly mineralized with patchy pyrite and chalcopyrite.
607.0' Same, but with very little sulphide.
632.0' Same, but becomes mineralized with 5-10% patchy pyrite, light chalcopyrite.
656.0' Dark green chlorite chloritoid alteration, moderately sheared at 50-60° to cn, with a few calcite veins, mineralized with chalcopyrite pyrite. Sparse brown leucoxene. Sharp change to 670.0'.

670.0'

670.0' Pyrite Ankerite Zone
40-50% fine pyrite in a calcite gangue.
672.0' Barren, coarse, grey ankerite with inclusions of quartz and chlorite. Very little sulphide.
675.0' 60-70% pyrite, sparse chalcopyrite in a calcite gangue.
676.5' Ankerite, quartz and calcite with little sulphide.
678.0' Black chlorite alteration, moderately sheared at 45° to cn., with no sulphides.
680.0' Quartz, calcite and ankerite, with inclusions of chlorite.

682.0'

682.0' Altered Zone
Pale grey-green, sugary, sericitized with sericite-saussurite mottling, patchy leucoxene. Abundant calcite stringers. Grades to 713.0'.

713.0'

713.0' Altered Anorthosite
Pale grey-green, sugary, lightly sericitized and chloritized. Strongly zoisitized, with 10-15% remaining plagio as scattered phenocrysts.

740.0'

740.0' End of the hole.

D.D.H. T-153

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Copper %
5949	298.5	300.0	1.5	0.010	0.20		
5950	300.0	301.0	1.0	0.030	5.80		
5907	470.0	475.0	5.0	TR.	0.10		
5908	475.0	480.0	5.0	TR.	0.10		
5909	480.0	485.0	5.0	0.020	0.10		
5910	485.0	490.0	5.0	0.010	0.10		
5920	550.0	553.0	3.0	0.020	0.60		
5921	553.0	555.5	2.5	0.020	1.40	0.184	0.150
5922	555.5	560.0	4.5	TR.	0.20	0.050	TR.
5923	560.0	565.0	5.0	0.010	0.60	0.150	0.056
5924	565.0	570.0	5.0	0.020	0.20	0.130	0.062
5925	570.0	575.0	5.0	0.030	0.50	0.170	0.050
5943	575.0	580.0	5.0	0.010	0.20		
5944	580.0	585.0	5.0	0.020	0.30		
5945	585.0	590.0	5.0	0.020	0.20		
5946	590.0	595.0	5.0	0.010	TR.		
5947	595.0	600.0	5.0	0.020	0.50		
5948	600.0	605.0	5.0	0.020	0.50		
5949	605.0	607.0	2.0	0.010	0.60		
5950	630.0	635.0	5.0	0.010	0.20		
6001	635.0	640.0	5.0	0.025	0.40		
6002	640.0	645.0	5.0	TR.	0.20		
6003	645.0	650.0	5.0	0.010	0.60		
6024	650.0	655.0	5.0	TR.	0.40		
6025	655.0	660.0	5.0	0.020	0.50		
6026	660.0	665.0	5.0	0.010	0.30		
6027	665.0	670.0	5.0	TR.	0.60		
6028	670.0	672.0	2.0	0.030	0.20		
6029	672.0	675.0	3.0	0.020	TR.		
6040	675.0	676.5	1.5	0.025	0.30		
6041	676.5	678.0	1.5	0.010	0.10		
6042	678.0	680.0	2.0	TR.	TR.		
6043	680.0	682.0	2.0	0.020	TR.		
Avgs	550.0	575.0	25.0	0.016	0.51		
	575.0	607.0	32.0	0.016	0.30		
	630.0	670.0	40.0	0.009	0.46		

D.D.H. T-155

Location : L24E 689'N

Started : April 10th. 1957.
Completed : April 19th. 1957.
Logged by : J. Zoene.

Dip at collar : 90°
at 300.0' : 89°

Core Size ; A.X.T.

Length of hole : 565.0'

0.0 Casing

119.0'

119.0' Weathered and Altered Rock
Probably anorthosite or transition rock. Greyish-green in colour with dirty white remnants of feldspar-phenos. Core crumbled. Rock is not sheared.
125.0' Core recovery about 35% for the next 50'. The rest of the rock is probably highly sericitized and chloritized. Nothing can be told about possible original rock. Contains oxidized patches. Rusty-brown in colour. Pale to medium green in colour. Soft. Also some remnants of a probably highly altered anorthosite which look highly weathered too.
179.0' Fresh and unaltered, massive, anorthosite with medium coarse porphyritic texture. Slightly chloritized interstices and several large (1") phenos of feldspar.
227.0' Grading over into softer and medium weathered anorthosite. From here core recovery rather poor. About 40% is lost, while remaining core is crumbled and battered.
250.0' 2' of lost core. Rock still soft and weathered. Again some lost core at 255.0'.
256.5' Anorthosite with reversed texture. Abundant black, rounded phenos of chloritized mafics.
275.2' Normal texture again. Rock relatively unaltered. Fresh looking. Interstices are slightly chloritized. In spots a rather well developed tombstone texture.

318.5'

318.5' Altered Anorthosite
Slightly altered, with more chlorite in interstices. Massive.

327.0'

327.0' Altered "Green" Anorthosite
Massive. Mineralized with about 3% sulphide in irregular patches. Mostly chalcopyrite. Contains several patches and zones of highly altered anorthosite. This becomes predominant from 356.0'. Core is cut by a number of epidote stringers. Contains small spots and patches of yellowish epidote. Numerous irregular to rounded yellowish-white feldspar-phenos which show a green irregular pattern of fractures, filled with chlorite. A considerable amount of ilmenite appears in the interstices.

374.3'

374.3' Altered Zone Massive. Dark green chloritized and sericitized. Very fine grained. No phenos. Cut by a few irregular calcite stringers. Contains irregular patches of chalcopyrite and pyrite. Enough to make low grade ore.

From 380.0' 4.5' of lost core.
405.8' Rapid decrease of mineralization. Rock becomes pale to medium grey, while amount of carbonate increases. Contains scattered patches of leucoxene.
418.0' Shearing appears. First 2' are slightly sheared. After that, highly sheared at about 45° to cn.. Mineralized with fine grained pyrite in the schistosity planes. Rock stays slightly mineralized. (10-15% pyrite) for next 25'.
Colour more medium grey black. Highly sheared at about 40-45° to cn.. Also an occasional chalcopyrite bleb.
459.0' Shearing ends. Colour pale greenish-grey with several irregular patches. No mineral.

471.0'

471.0' Anorthosite — Massive. Relatively unaltered. Dirty white in colour. Faintly visible porphyritic texture. Contains a number of narrow, highly altered patches and sections.
562.0' Alteration starts again. Rock is black chloritized, massive.

565.0'

565.0' End of the hole.

D.D.H. T-155

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
5702	327.5	330.0	2.5	TR.	0.50
5703	330.0	335.0	5.0	0.010	0.20
5704	335.0	340.0	5.0	0.025	1.90
5705	340.0	345.0	5.0	0.020	1.10
5706	345.0	346.0	1.0	0.055	4.60
5707	346.0	350.0	4.0	0.010	0.20
5710	350.0	355.0	5.0	0.010	1.80
5711	355.0	360.0	5.0	0.010	0.50
5712	360.0	354.0	5.0	0.020	0.20
5713	365.0	370.0	5.0	TR.	0.20
5714	370.0	375.0	5.0	TR.	0.30
5715	375.0	380.0	5.0	0.010	0.30
5716	384.5	387.0	2.5	TR.	0.10
5717	387.0	390.0	3.0	0.010	1.10
5718	390.0	395.0	5.0	TR.	0.10
5719	395.0	400.0	5.0	TR.	1.00
5720	400.0	403.5	3.5	0.010	0.20
5721	403.5	407.0	3.5	0.020	1.10
5722	407.0	410.0	3.0	TR.	0.20
5723	410.0	415.0	5.0	TR.	0.10
5724	415.0	421.5	6.5	0.010	0.10
5725	421.5	425.0	3.5	0.018	0.60
5823	425.0	430.0	5.0	0.010	0.70
5824	430.0	435.0	5.0	0.010	0.40
5825	435.0	440.0	5.0	TR.	0.70
5826	440.0	445.0	5.0	0.010	0.60
5827	445.0	450.0	5.0	0.010	0.40
5453	450.0	452.5	2.5	0.010	0.20
5454	452.5	455.0	2.5	0.020	0.30
5455	455.0	458.0	3.0	TR.	0.20
Avge.	335.0	355.0	20.0	0.018	1.47
	387.0	455.0	68.0	0.008	0.48
	327.5	445.0	117.5	0.008	0.61

D.D.H. T-156

Location : 121E 168'N

Started : April 16th, 1957.
Completed : April 25th, 1957.
Logged by : M. Vollo.

Dip at collar : 90°
at 350.0' : 85°30'

Core Size : A.X.T.

Length of hole : 350.0'

0.0 Casing

129.0'

129.0' Anorthosite — Coarse, white, porphyritic, with a few narrow chloritized patches.
2' lost core at 141.0'.
1' lost core at 172.0'.
1' lost core at 280.5'.

264.0'

264.0' Altered Anorthosite
Green, irregularly chloritized and sericitized, with patches of unaltered anorthosite. Sparse yellow-green epidote.
267.0' Lost core.
269.0' As before.
276.5' Lost core.
277.5' As before.
279.0' Lost core.

281.0'

281.0' Altered Zone — Green chlorite alteration, lightly sheared at about 50° to cn., with abundant calcite stringers.

285.0'

285.0' Sulphide Zone — 30-40% pyrite along schistosity at 40° to cn.. Rock is strongly banded, due to alternating bands of chlorite, pyrite and ankerite. Light pyrrhotite, chalcopyrite.
291.0' Mineralization decreases to about 5% pyrite, light chalcopyrite.

292.0'

292.0' Altered Zone — Green chlorite alteration, highly sheared at 50° to cn., with abundant grey ankerite, abundant leucoxene, very little sulphide.
301.2' Lost core.
302.0' As before.
303.5' Lost core.
305.5' As before.
308.5' Lost core.
310.0' As before.

311.5'

311.5' Ore Zone — 60-70% pyrite, 5-10% chalcopyrite in a matrix of ankerite and chlorite.
316.0' Lost core.
317.0' 30% coarse pyrite, 5% pyrrhotite, sparse chalcopyrite in a chlorite ankerite matrix. Strongly magnetic in places.

321.0' Lost core.
323.0' As before.
326.5' Lost core.
328.5' As before.
330.5' Lost core.
331.5' As before.
332.5' Lost core.
335.0' As before.
336.0' Lost core.
337.0' Green chlorite, lightly mineralized with pyrite, sparse chalcopyrite.
338.0' Lost core.
340.0' As before.
342.0' Lost core.
344.0' Becomes mineralized with 15-20% pyrite, 10% pyrrhotite, 2-3% chalcopyrite in a chlorite calcite gangue.
347.5' Green chlorite, moderately sheared at 50° to cn., with light pyrite, pyrrhotite, scattered coarse crystals of ilmenite.
349.0' Lost core.

350.0'
350.0' End of the hole.

D.D.H. T-156

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %
6006	285.0	290.0	5.0	0.020	0.70	0.190	0.116
6007	290.0	292.0	2.0	0.030	0.80	0.360	0.078
6008	292.0	295.0	3.0	0.020	0.70		
6009	295.0	300.0	5.0	0.010	0.10		
6010	300.0	301.2	1.2	TR.	0.30		
6011	302.0	303.5	1.5	TR.	TR.		
6012	305.5	308.5	3.0	0.010	T.		
6013	310.0	316.0	6.0	0.125	1.60	0.170	0.224
			1.0 Lost core				
6014	317.0	321.0	4.0	0.060	1.30	0.140	0.314
			2.0 Lost core				
6015	323.0	325.0	2.0	0.050	0.40	0.150	0.150
6030	325.0	326.5	1.5	0.030	1.00		
			1.5 Lost core				
6031	328.0	330.5	2.5	0.060	1.40		
			1.0 Lost core				
6032	331.5	332.5	1.0	0.325	1.10		
			2.5 Lost core				
6033	335.0	336.0	1.0	0.065	1.20		
			1.0 Lost core				
6034	337.0	338.0	1.0	TR.	0.10		
			2.0 Lost core				
6035	340.0	342.0	2.0	0.030	0.50		
			2.0 Lost core				
6036	344.0	347.5	3.5	0.060	0.50		
6037	347.5	349.0	1.5	0.010	0.20		
Avge	285.0	295.0	10.0	0.020	0.72	0.170	0.070
	310.0	336.0	26.0	0.080	1.27		

Assuming lost core has same average.

D.D.H. T-159

Location : L27E 683'N

Started : April 13th, 1957.
Completed : April 26th, 1957.
Logged by : M. Vollo.

Dip at collar : 90°
at 800.0' : 90°
at

Core Size : A.X.T.

Length of hole : 800.0'

0.0 Casing

86.0'

86.0' Altered Anorthosite
Moderately chloritized, and sericitized, with some porphyritic, relatively unaltered patches.
98.0' Coarse, white, relatively unaltered.
102.5' Lightly to medium sericitized, pale yellow white, with patches of highly chloritized anorthosite.
128.0' Grey. Lightly sericitized, with a slight tendency to reversed texture.
1' white calcite with a little sphalerite at 158.8'.
160.0' Grey-green, very highly sericitized.
165.0' Coarse, porphyritic, with feldspar phenos, altered to yellow sericite in a green matrix. Scattered patches of fine ilmenite.

177.5'

177.5' Ore Zone 1-2% chalcopyrite, 5% red sphalerite in green chlorite alteration, riddled by irregular calcite veins and stringers.
182.5' Massive pyrrhotite, with 5-10% chalcopyrite.
184.0' 2-3% chalcopyrite, 5-10% pyrrhotite, pyrite, in chlorite alteration.

186.0'

186.0' Altered Zone Fairly massive, green chlorite alteration, mottled with pale green sericite saussurite and with scattered crystals of leucoxene.
Lightly mineralized with irregular stringers of pyrite chalcopyrite.

199.0'

199.0' Altered Anorthosite
Green, very highly sericitized with minor chlorite, abundant irregular calcite veinlets with chlorite selvedges, averaging at about 55° to cn..
Has a mottled appearance, due to interstitial sericite-saussurite. Light altered leucoxene. Good chalcopyrite over 1" at 213.5'.
214.0' Highly sericitized, yellow, retaining good anorthosite texture.
231.0' Becomes irregularly chloritized with relatively unaltered patches
Few blebs chalcopyrite over 1" at 246.0'.

253.0'

253.0' Anorthosite White with green cast, porphyritic, relatively unaltered.

276.0'

276.0' Altered Zone Grey-green chlorite sericite alteration, moderately sheared at about 70° to cn.. Scattered fine crystals of leucoxene, a few calcite stringers.
Good chalcopyrite over 2" at 282.0'.

283.0'

283.0' Anorthosite — Grey, porphyritic, with texture destroyed in places by metamorphism.
293.0' Becomes coarse, prophyritic, relatively unaltered.
7" quartz calcite vein in 1' highly chloritized band at 301.0'.
334.0' Becomes strongly zoisitized with patchy sericitization.
340.0' Black chlorite alteration, with coarse interstitial leucoxene, cut by calcite veins up to 5" in core length.
343.0' Grey, zoisitized, with patches of dark chloritization. Abundant coarse brown leucoxene. Some patches of coarse white porphyritic anorthosite.
455.0' Yellowish-white coalescent, with a few corroded, very coarse plagio phenos.
517.0' Contains a few patches of highly altered plagio in black chloritized anorthosite.
525.0' Fine, with texture destroyed, white with a green cast.
539.0' Becomes grey, zoisitized, with patches of white porphyritic anorthosite.
552.0' Coarse, white , coalescent, with patchy coarse pink leucoxene.
627.0' Texture becomes euhedral to subhedral, porphyritic. Good chalcopyrite over 1" at 644.0'.
649.5' Highly chloritized, but with a few plagio phenos.
662.0' Coarse, porphyritic, relatively unaltered with chloritized patches.
665.0' Becomes highly to moderately sericitized with a few zoisitized or tremolite stringers. Grades to 667.0'.

667.0'

667.0' Altered Anorthosite — Grey-green, highly sericitized, with sericite-saussurite mottling, abundant leucoxene. Grades to 683.0'.

683.0'

683.0' Altered Zone — Grey-green sericite alteration, with minor chlorite, good sericite-saussurite mottling, lightly and irregularly sheared at about 35° to cn., with patches of recognizable anorthosite in less sheared portions.
Abundant irregular calcite veinlets.
703.0' Becomes more strongly sheared, very irregularly, but roughly at 60° to cn.. Abundant calcite veinlets, generally truncating schistosity at about 15° to cn..
718.5' Grey to white quartz vein with patches of ankerite and siderite, lightly mineralized with sphalerite and fine chalcopyrite.
720.0' Black chlorite, highly sheared at about 45° to cn..
721.0' Green, chlorite alteration, strongly sheared at 45-50° to cn., lightly mineralized with chalcopyrite, pyrite.
733.0' Becomes highly sericitized, with patchy leucoxene, a few quartz stringers.
2.5' yellow sericite and buff carbonate begins at 734.5'. Grades to 740.0'.

740.0'

740.0' Altered Anorthosite — Greenish, moderately sericitized and chloritized, but original coarse, plagio crystals still visible. Some patches of white unaltered plagio.
767.0' Dark, very highly altered, with no recognizable anorthosite.
778.0' Very coarse, highly sericitized, with 5-10% unaltered plagio.
Abundant calcite stringers.

800.0'

800.0' End of the hole.

D.D.H. T-152

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Cobalt %	Zinck %
5782	158.8	160.0	1.2	TR.	TR.			
5783	175.0	177.5	2.5	0.025	0.20			
5784	177.5	180.0	2.5	0.010	1.80			0.80
5785	180.0	182.5	2.5	TR.	0.60			0.90
5786	182.5	184.0	1.5	0.0225	2.50	0.820	0.194	
5787	184.0	186.0	2.0	0.010	2.10	0.170	0.170	
5788	186.0	190.0	4.0	TR.	0.20			
5789	190.0	195.0	5.0	0.010	1.20			
5790	195.0	199.0	4.0	0.010	0.60			
5918	718.5	720.0	1.5	0.020	0.20			0.20
5919	720.0	725.0	5.0	0.010	0.80			
6038	725.0	727.0	2.0	0.020	1.20			
6039	727.0	730.0	3.0	TR.	0.30			

D.D.H. T-162

Location : L26S 725'N

Started : April 12th, 1957.
Completed : April 21st, 1957.
Logged by : N. Vollo.

Dip at collar : 90°
at :
at :
at :

Core Size : A.X.T.

Length of hole : 215.0'

0.0 Casing

70.0'
70.0' Anorthosite — Greenish, porphyritic, strongly soisitized, epidotized with yellow to white plagio in a green matrix.

98.0'
98.0' Altered Anorthosite
Green, strongly chloritized with a little pink leucoxene.
99.0' Lost core.
102.0' Green, highly chloritized, mottled with sericite-saussurite.
103.0' Lost core.
105.0' As before.
107.0' Lost core.
109.0' Strongly sericitized, coalescent, yellow-grey.
112.0' Lost core.
116.0' Lightly to moderately sericitized.
117.5' Lost core.
123.0' As before.
124.0' Lost core.
125.0' Coarse, porphyritic, lightly sericitized.
128.0' Becomes moderately chloritized, with about 35% remaining plagio phenos.
132.0' Lost core.
133.0' As before.
134.0' Lost core.
136.0' Same, core badly broken.
138.0' Lost core.
140.0' As before.
142.0' Lost core.
144.0' Grey-green, lightly to moderately sericitized, with 5% remaining white plagio.

153.5'
153.5' Anorthosite — Coarse, white, porphyritic, lightly chloritized and sericitized with white plagio in a green matrix.
195.0' Lost core.
198.0' As before.
199.0' Lost core.
202.5' Coarse, white, porphyritic, relatively unaltered.

215.0'
215.0' End of the hole.

D.D.H. T-163

Location : L24E 860'N

Started : April 14th, 1957.
Completed : April 24th, 1957.
Logged by : J. Koene.

Dip at collar : 90o
at 200.0' : 83°45'

Core Size : A.X.T.

Length of hole : 309.0'

0.0 Casing

95.0'

95.0' Possibly Anorthosite
Massive. Indistinct texture with ½" black-grey phenos of chloritized and sericitized mafics. Core is broken and crumbled.
At irregular intervals 12" sections of lost core. All together about 3' is lost between 100.0' and 125.0'. Rock is indistinctly porphyritic. (black chloritized phenos). Weathered appearance. Rather soft.
130.0' 33' of lost core.
163.0' Weathered, bleached anorthosite with brownish patches of iron oxide. Lost core at irregular intervals up to 3'.

220.4'

220.4' Altered Zone Blackish-grey chloritized and sericitized. Starts abruptly along contact 30° to cn.. Contact is sharp enough for a dyke. Core recovery is poor. Much of it is lost. Rock looks weathered in spots. No distinct texture. No phenos. Fine grained black-grey rock.

225.0'

225.0' Altered Weathered Anorthosite
Green in colour. Porphyritic texture. Decreasing alteration.
227.0' 18" of lost core.
Between 227.0' and 250.0' about 9' of lost core. Rock looks highly weathered. Soft pitted texture.

251.0'

251.0' Anorthosite Unaltered. 90% feldspar. Massive, fresh appearance. Contains highly kaolinized weathered patches and sections. Also a couple of feet of lost core.
272.5' Sharp change in texture. Rock becomes porphyritic with abundant green spots of chloritized mafics. Also some orange leucoxene.

309.0'

309.0' End of the hole.

D.D.H. T-166

Location : L22E 225'N

Dip at collar : 90°
at 300.0' : 90°

Core Size : A.X.T.

Length of hole : 600.0'

Started : April 17th, 1957.
Completed : April 25th, 1957.
Logged by : J. Koene and N. Vollo.

0.0 Casing

130.0'

130.0' Anorthocite — Relatively unaltered to slightly altered. Massive. Porphyritic texture. Rock makes a dirty appearance. Interstices are filled with fine grained chlorite and mauve calcite.
Contains a few narrow sections which are highly chloritized. Interstices are medium to highly chloritized. Between 150.0' and 175.0' about 6' of lost core, in sections of about 12" at irregular intervals.
178.0' Rock looks fresher. Colour is dirty white with relatively fresh feldspar. Contains some patches of black anorthosite with reversed texture. Massive.
249.0' Black anorthosite, with pronounced reversed texture of phenos of mafics which are medium to highly chloritized. Massive. Contains a few patches of normal scattered patches of brown leucoxene.
299.0' Normal, medium to coarse, white relatively unaltered.
Sharp irregular contact to 324.0'.

324.0'

324.0' Green Dyke (?) — Massive, green, highly chloritized with abundant, fine calcite stringers. Scattered fine grained and blebs of epidote, very sparse fine pink leucoxene. Contains inclusions of highly epidotized anorthosite.

346.5'

346.5' Shear Sulphide Zone
As before, but strongly sheared at 50o to cn., mineralized with 15-20% pyrite, 5% pyrrhotite, light chalcopyrite along schistosity.
Coarse siderite over 8" at 346.5'.
350.0' Same, but with 5% pyrite.
Appears to grade to 354.0'.

354.0'

354.0' Altered Zone — Pale grey-green, massive, relatively coarse textured, sericite-chlorite alteration, ridded with irregular quartz calcite stringers and with abundant brown leucoxene.
Contact destroyed to 369.5'.
369.5' Very fien grained, sheared at 50° to cn., and gradually changing from light grey-green to dark green. Brown leucoxene becomes less abundant as colour deepens.
Shearing intensity increases and changes to about 40° to cn. near contact to 373.0'.

373.0'

373.0' Sulphide Zone — 40% sulphides, mostly pyrite, pyrrhotite, 2-3% chalcopyrite in a dark green, fine chlorite schist with patches of brecciated quartz, abundant patchy magnetite.

379.0' Mineralization decreases to about 25% with 2-3% chalcopyrite, 5% pyrrhotite, considerable siderite, ankerite and quartz. Abundant fine magnetite.
387.0' About 65% pyrite, sparse chalcopyrite and pyrrhotite, abundant magnetite in a gangue of chlorite schist, ankerite and siderite.
404.0' to 407.0' Good heavy sulphide with predominant pyrite and pyrrhotite and about 4-6% chalcopyrite. After that, still good ore but less copper. Core recovery rather poor. About 20% is lost.
426.0' 50-60% pyrrhotite in a green chlorite gangue.
428.3' 10% pyrite, 5% pyrrhotite, 1-2% chalcopyrite in a white quartz calcite gangue with patches of green chlorite.

437.0'

437.0' Altered Zone — Dark green chlorite alteration, moderately sheared at about 70° to cn., and lightly mineralized with pyrite, chalcopyrite, sphalerite. May be altered dyke in parts.
6" lost core at 441.9'.
451.0' Green chlorite, mottled with sericite-saussurite and weakly sheared at 50° to cn..
453.0' Pale grey-green, very highly sericitized with yellow patches of almost pure sericite. Very abundant, irregular calcite stringers. Weakly sheared at baout 50° to cn..
9" lost core at 461.5'.
475.0' Darker grey, more chloritic with less carbonate stringers. Patchy sericite-saussurite mottling, scattered specks of leucoxene.
Irregular contact parallels core to 494.0'.

494.0'

494.0' Anorthosite — White, coarse, porphyritic with a few narrow altered patches.

549.8'

549.8' Altered Zone — Black chloritized. Cut by numerous narrow, irregular, calcite stringers. Massive. Contains a few patches of leucoxene and sericite-saussurite.
557.0' 18" of lost core.

568.0'

568.0' Anorthosite — Relatively unaltered, except for the first 2'. Further down as 494.0'
593.5' Black anorthosite appears. Indistinct reversed texture in a dirty white matrix. Massive.

600.0'

600.0' End of the hole.

D.D.H. T-166

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %	Nickel %	Copper %
5868	345.0	346.5	1.5	T R	0.10		
5869	346.5	350.0	3.5	0.020	0.20	0.180	0.082
5870	350.0	355.0	5.0	0.010	0.40		
5871	355.0	360.0	5.0	TR.	0.10		
5872	360.0	365.0	5.0	0.010	0.10		
5873	365.0	370.0	5.0	TR.	0.10		
5874	370.0	373.0	3.0	0.010	0.10		
5875	373.0	375.0	2.0	0.070	0.60	0.170	0.098
5876	375.0	380.0	5.0	0.085	1.60	0.100	0.122
5877	380.0	385.0	5.0	0.030	0.70	0.080	0.158
5878	385.0	387.5	2.5	0.125	1.60	0.320	0.150
5879	387.5	390.0	2.5	0.085	0.40	0.170	0.132
5880	390.0	395.0	5.0	0.020	0.60	0.150	0.116
5881	395.0	400.0	5.0	0.020	0.50	0.120	0.154
5911	400.0	405.0	5.0	0.105	1.80	0.170	0.300
5912	405.0	410.0	5.0	0.040	1.40	0.020	TR.
	410.0	411.5	Lost core				
5913	411.5	415.0	3.5	0.030	0.70		
5914	415.0	420.0	5.0	0.100	0.70		
	420.0	421.5	Lost core				
5915	421.5	422.5	1.0	0.030	0.90		
	422.5	423.5	Lost core				
5916	423.5	425.0	1.5	0.040	1.10		
5936	425.0	428.5	3.5	0.040	0.60	0.306	TR.
5937	428.5	430.0	1.5	0.030	1.10	0.120	0.170
5938	430.0	435.0	5.0	0.040	0.30	0.080	0.128
5939	435.0	437.0	2.0	0.040	0.10	0.070	0.116
5940	437.0	441.8	4.8	0.005	0.10		
5941	442.5	445.0	2.5	0.005	0.10		
5942	445.0	450.0	5.0	TR.	0.10		
Avge	375.0	387.5	12.5	0.076	1.24		
	373.0	430.0	57.0	0.057	0.97		

Henderson
Group K

D.D.H. T-162

Location : L18S 91'S

Started : April 17th, 1957.
Completed : April 26th, 1957.
Logged by : J. Koens.

Dip at collar : 90°
at :
at :
at :

Core Size : A.X.T.

Length of hole : 450.0'

0.0 Casing

188.0'

188.0' Altered Zone Massive. Highly sericitized and also chloritized, sericite is predominant. Colour bluish-green-black. Contains several, irregular, calcite stringers and patches. No mineral.
295.5' a 3' quartz vein (barren) with irregular, sharp contacts at about 60-70° to cn..
298.0' Chlorite and sericite in about equal amounts. Rock becomes sheared at about 70° to cn..
309.0' 18" of quartz vein. No contacts.
313.5' 20" of quartz vein at 70° to cn.. Rock becomes highly sheared at 70° to cn..

331.0'

331.0' Altered, Mineralized Zone
Fine grained. Very highly sheared (30° to cn.), greyish-green rock. Sericitized and chloritized and almost talcose in spots. Mineralized with fine grained pyrite in the planes of schistosity. Slightly to medium carbonitized with abundant crystals of black-green chloritoid. The carbonate is probably ankerite-calcite. Occurrence of sulphides is rather erratic. Total mineralization about 5%.
368.0' Chlorite becomes highly predominant. Shearing decreases rapidly. Colour is black.
403.5' Colour changes to pale greenish-grey. Probably due to the predominance of sericite-saussurite with some carbonate. Still mineralized in spots (pyrite). In places mottled texture with some scattered patches of yellow-brown leucoxene.
Rock is cut by a few, irregular calcite stringers.

450.0'

450.0' End of the hole.

D.D.H. T-167

Samples and assays taken

Sample number	Section of hole From	To	Sample length	Gold Oz/Ton	Copper %
6016	325.0	330.0	5.0	TR.	TR.
6017	330.0	335.0	5.0	TR.	0.10
6018	335.0	340.0	5.0	TR.	0.30
6019	340.0	345.0	5.0	0.020	0.50
6020	345.0	350.0	5.0	0.060	0.50
6044	350.0	355.0	5.0	0.010	TR.
6045	355.0	360.0	5.0	TR.	0.10
6046	360.0	365.0	5.0	TR.	0.20
6047	365.0	370.0	5.0	TR.	0.10
6048	370.0	375.0	5.0	0.0175	0.10
6049	375.0	380.0	5.0	0.010	0.10
6050	380.0	385.0	5.0	TR.	0.20
6051	385.0	390.0	5.0	TR.	TR.
6052	390.0	395.0	5.0	TR.	TR.
6053	395.0	400.0	5.0	TR.	0.20
6054	400.0	405.0	5.0	0.0175	0.20
6055	405.0	410.0	5.0	0.020	0.20
6056	410.0	415.0	5.0	0.010	0.20
6057	415.0	420.0	5.0	TR.	0.10
6058	420.0	425.0	5.0	TTR.	TR.
6059	425.0	430.0	5.0	TR.	TR.
6060	430.0	435.0	5.0	TR.	TR.
6061	435.0	440.0	5.0	TR.	0.10
6062	440.0	445.0	5.0	0.010	0.10
6063	445.0	450.0	5.0	TR.	0.10
Avge	340.0	350.0	10.0	0.040	0.50