



Area TARP LAKE/DONA LAKE (NOTE(1))

Report No.

Work performed by: GALLANT GOLD MINES LTD.

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
CONNELL TWP.	G-P-81-1	406'	Apr/81	
	G-P-81-2	506'	Apr/81	
	G-P-81-3	497'	Apr/81	
	Ga-P-81-4	406'	Apr/81	
CONNELL/ MCCULLAGH TWP.	Ga-P-81-5	566'	Apr/81	
CONNELL TWP.	Ga-P-81-6	406'	Apr/81	
	Ga-P-81-7	406'	Apr/81	
	Ga-P-81-8	406'	Apr/81	
	G-P-81-9	403'	May/81	
	G-P-81-10	506'	May/81	
	G-P-81-11	506'	May/81	
	G-P-81-12	506'	May/81	
	G-P-81-13	504'	May/81	
MCCULLAGH TWP.	G-P-81-14	506'	May/81	
	G-P-81-15	506'	May/81	
	G-P-81-16	606'	May/81	
	G-P-81-17	806'	Jun/81	
CONNELL TWP.	G-P-81-18	786'	Jun/81	
	G-P-81-19	806'	Jun/81	
	G-P-81-20	806'	Jun/81	

Diamond Drilling

Area TARP LAKE/ DONA LAKE (NOTE(1)) Report No.

Work performed by: GALLANT GOLD MINES LTD.

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
MCCULLAGH TWP.	G-P-81-21	406'	Jun/81	
	G-P-81-22	405'	Jun/81	
	G-P-81-23	606'	Jun/81	
CONNELL TWP	G-P-81-24	406'	Jun/81	
	G-P-81-25	406'	Jun/81	
	G-P-81-26	416'	Jun/81	
	G-P-81-27	406'	Jun/81	
	G-P-81-28	406'	Jun/81	
	G-P-81-29	406'	Jul/81	
	G-P-81-30	406'	Jul/81	
	G-P-81-31	406'	Jul/81	
	G-P-81-32	406'	Jul/81	
	G-P-81-33	406'	Jul/81	
	G-P-81-34	508'	Jul/81	
	G-P-81-35	383'	Jul/81	(1)
	G-P-81-36	406'	Aug/81	(1)
	G-P-81-37	77'	Aug/81	
	G-P-81-37B	406'	Aug/81	
	G-P-81-38	406'	Aug/81	(1)
	G-P-81-39	396'	Aug/81	(1)
	G-P-81-40	406'	Aug/81	

NOTES: (1) DONA LAKE

Diamond Drilling

Area TARP LAKE/ DONA LAKE (NOTE(1))

Report No.

Work performed by: GALLANT GOLD MINES LTD.

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
CONNELL TWP.	G-P-81-41	603'	Aug/81	(1)
	G-P-81-42	606'	Aug/81	(1)
MCCULLAGH TWP.	G-P-81-43	606'	Aug/81	
MCCULLAGH TWP.	G-P-81-44	611'	Aug/81	
CONNELL TWP.	G-P-81-45	1006'	Sep/81	
	G-P-81-46	996'	Sep/81	
	G-P-81-47	696'	Sep/81	
<hr/>				
TOTAL	48 DH	24,445 ft.		

NOTES: (1) DONA LAKE

LOCATION Albany River Shaft Area B Zone BEARING 190d DIP 50d

STARTED April 10th/81

LATITUDE 19° 25' South

TESTS:

COMPLETED April 10th/81

DEPARTURE 50+85 East

FOOTAGE	DIP	BEARING

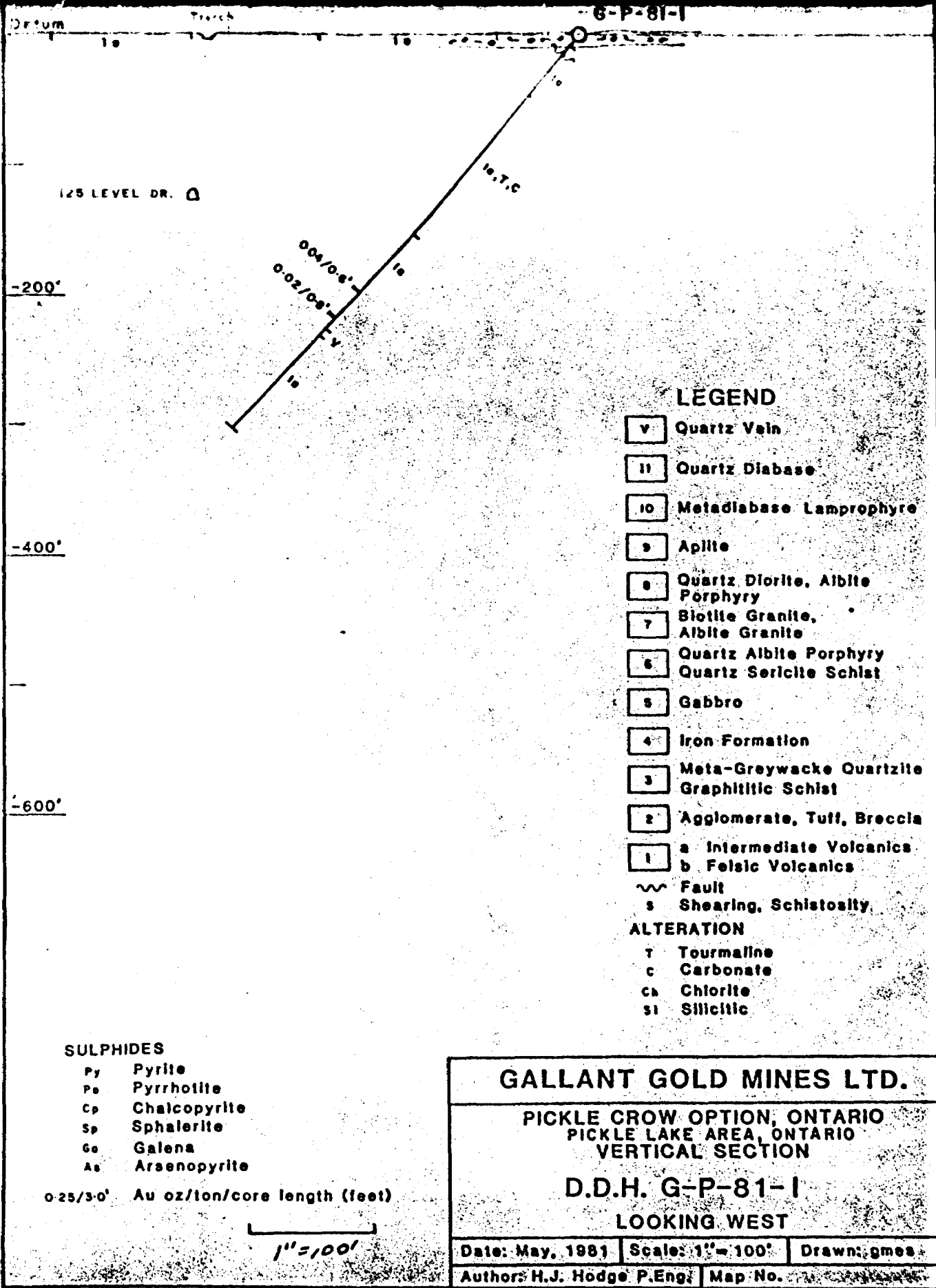
ULTIMATE DEPTH 406'

ELEVATION ----

LOGGED BY H.J. Hodge

FOOTAGE From To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0 10.0	Casing					
10.0 299.8	ANDESITE, light to medium green, fine grained, chloritic. Highly banded (sheared) at 40d to 50d to C.A. scattered narrow shear zones. Numerous quartz carbonate veins and stringers to 1/4" particularly with shears-quartz stringers probably average 6-8 per foot of core.					
	18.8 - 20.6, FAULT ZONE? Punky, "wad" like material highly calcareous, probably fault gouge. Open fracture 'cave' reported at 20.6.					
	Becomes slightly more massive, less fractured at 23.0 whole rock is highly calcareous					
	60.0-140.0, numerous highly irregular zones up to 1 foot of hard black mineral (tourmaline?) with carbonate in fractures and minor pyrite.					
	118.1-118.7, quartz and carbonate stringers and 2" quartz vein 118.5-118.6	5801	118.1	118.7	0.6'	Tr.
	140.0-176.4, as above (60,0-140.0) except tourmaline carbonate zones are more numerous.					
	176.4-177.7, carbonate-tourmaline breccia zone. fragments in andesitic wall rock in carbonate					
	matrix. Minor quartz	5802	176.4	177.7	1.3'	Tr.
	202.9-203.2 quartz carbonate vein, 1" quartz vein at 223.9					
	177.7-299.8, as above, (140.0-176.4) less carbonate tourmaline zones. Occasional narrow quartz stringer to 1/4".					





125 LEVEL DR. Δ

-200'

-400'

-600'

G-P-81-1

LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- C Carbonate
- Ch Chlorite
- Si Silicic

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Go Galena
- As Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-1

LOOKING WEST

Date: May, 1981 | Scale: 1" = 100' | Drawn: gmes

Author: H.J. Hodge P.Eng. | Map No.

LOCATION Albany River Shaft Area, D Zone BEARING South DIP 50d

STARTED April 12th, 1981

LATITUDE 48° 55' South

TESTS:

COMPLETED April 13, 1981

DEPARTURE 50° 15' East

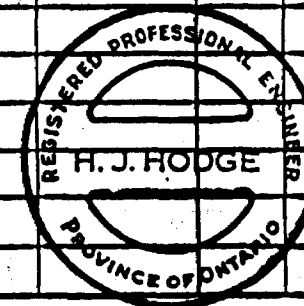
DEPTH	DIP	BEARING
200	45d	
500	45d	

ULTIMATE DEPTH 506'

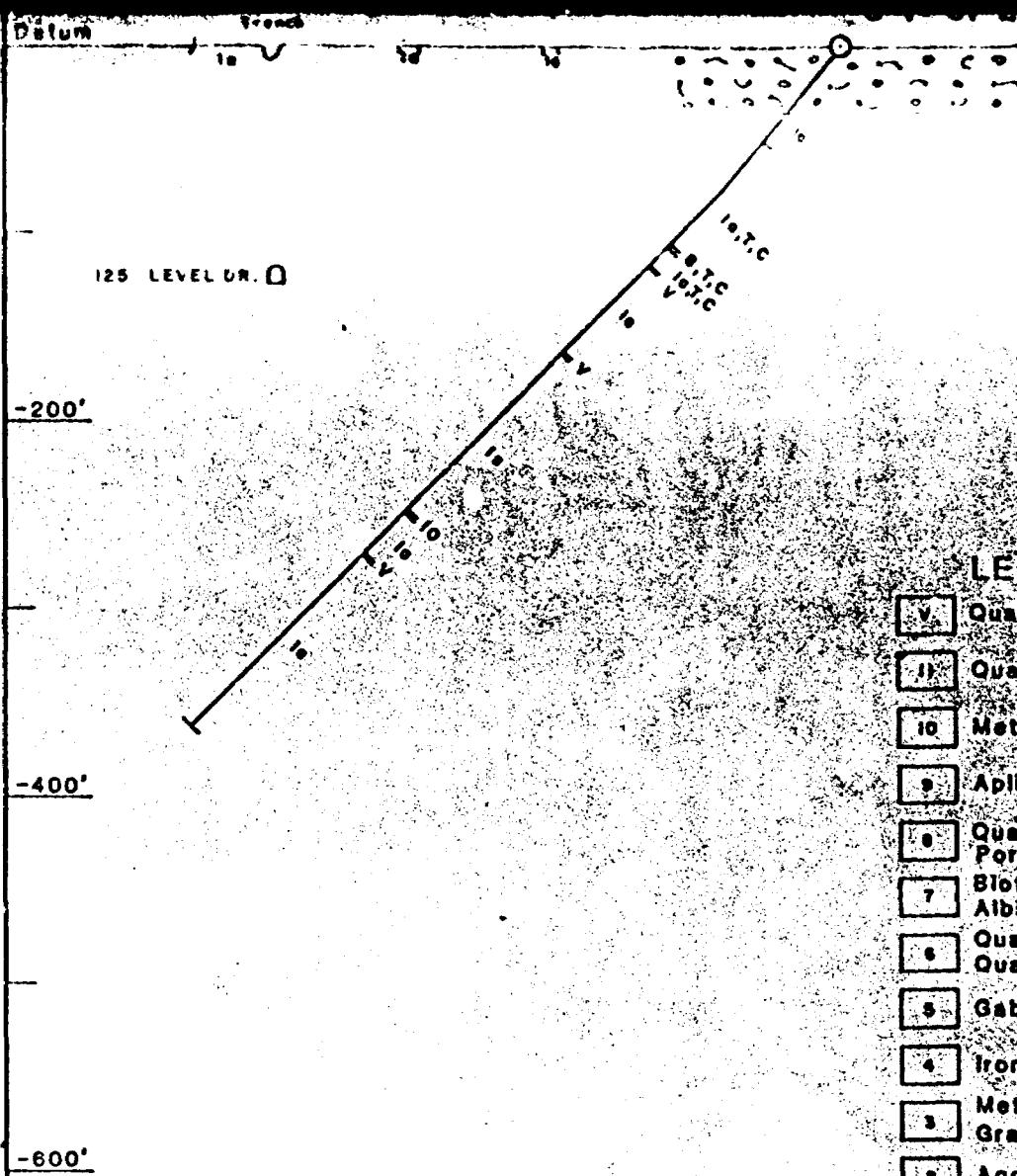
ELEVATION ----

LOGGED BY H.J. Hodge

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0	46.0	CASING					
46.0	140.7	ANDESITE, medium to dark greenish grey, fine grained sheared, fractured and vuggy near surface, shearing and banding parallel at 45d to 50d to C.A. Scattered quartz-carbonate stringers.					
		59.5-59.7 and 61.3-62.0- dark brownish grey silicified-carbonate zones					
		66.0-140.7, as above, less banded. Scattered irregular zones of spotted black tourmaline and white carbonate as in hole No. 1. Occasional narrow quartz stringers with the carbonate, with minor pyrrhotite, pyrite.					
		Scattered zones of blackish grey with more carbonate stringers and minor pyrite.					
		2" quartz-carbonate vein at 128.5'					
140.7	142.3	FELDSPAR-BIOTITE PORPHYRY, medium grey, fine grained ground mass, 20-25% white, euhedral feldspar phenocrysts to 3 to 4 mm. 3-5% black biotite phenocrysts. Slightly foliated. Both contacts approximately 42d to C.A.					
142.3	156.0	ANDESITE, as above, less tourmaline, still numerous irregular carbonate stringer.					



FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
156.0	157.2	TAPERED VEIN, dark, partly ground core, several narrow quartz (glassy) veins with carbonate and white rock, probably 30-40% quartz, 3-5% pyrite, minor pyrrhotite, traces of dark grey mineral (galena? specular hematite?)	5808	156.0	158.4	2.4'	Tr.
157.2	221.9	ANDESITE, as above, heavy carbonate, minor quartz and 3 to 5% pyrite to 158.4. 2" irregular quartz vein at 194.4'					
221.9	222.6	QUARTZ VEIN, white bull quartz	5809	221.8	222.8	1.0'	Tr.
222.6	341.4	ANDESITE, as above, irregular quartz stringer at 222.8 quartz veins 2" at 246.4" at 248.3, 1/2" at 277.1, 1/2" at 227.7, 1/2" at 278.5, 297.0-341.4, increase in carbonate veinlets to about 15-20% of rock. Carbonate breccia zones with green andesite fragments in white carbonate matrix from 299.0-304.0 minor pyrrhotite, pyrite. Also 310.0-330.0, carbonate breccia zone-character sample 335.4-340.4, carbonate breccia zone.	5810	312.2	317.2	5.0'	Tr.
341.4	343.2	BASIC DYKE, (Lamprophyre?) Dark brownish green, fine to medium grained, massive, slightly porphyritic with pale greenish feldspar phenocrysts in a black hornblende-chlorite ground-mass.					
343.2	476.0	ANDESITE, as above, more massive than before, occasional fine carbonate threads. 431.0-433.0 carbonate breccia zone. Other narrower brecciated sections becoming more numerous down the hole. 449.0-450.0, brownish silicified? section, (dyke?) finegrained.					



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry, Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite, Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics, b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

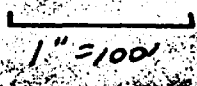
ALTERATION

- t Tourmaline
- c Carbonate
- ca Chlorite
- si Silicite

SULPHIDES

- Py Pyrite
- Pe Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Ge Galena
- As Arsenopyrite

0-25/3-0' Au oz/ton/core length (feet)



GALLANT GOLD MINES LTD.		
PICKLE CROW OPTION, ONTARIO PICKLE LAKE AREA, ONTARIO VERTICAL SECTION		
D.D.H. G-P-81-2		
LOOKING WEST		
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

LOCATION Albany River Shaft Area D Zone BEARING South DIP 50d

STARTED April 13/81

LATITUDE 18°15' South

TESTS:

COMPLETED April 15/81

DEPARTURE East

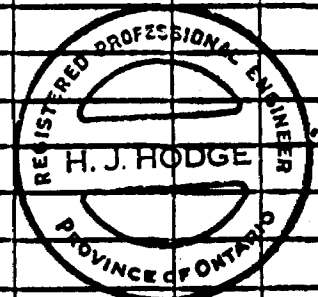
DEPTH	DIP	BEARING
200	49d	
400	45d	

ULTIMATE DEPTH 497'

ELEVATION ----

LOGGED BY H. J. Hodge

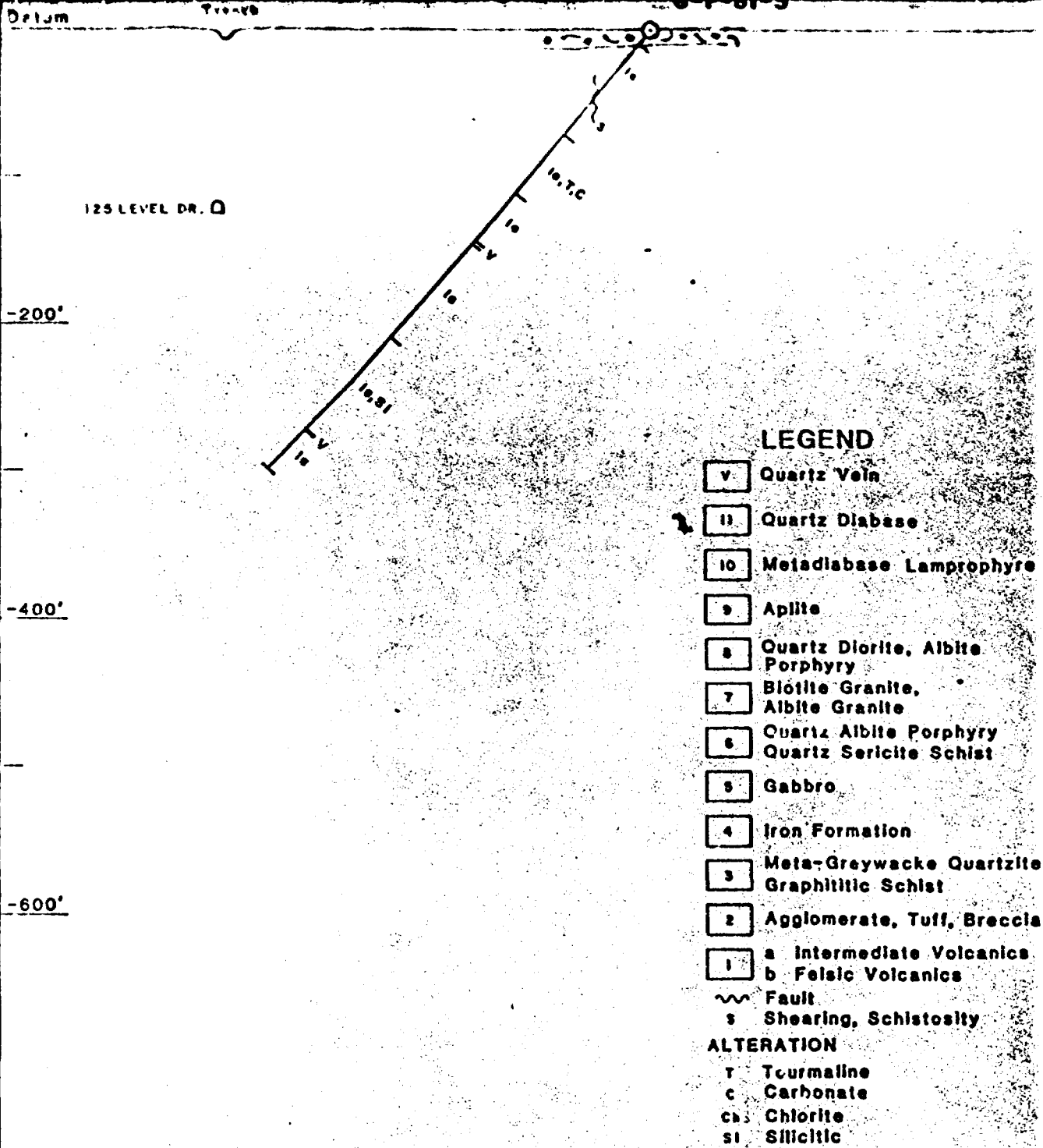
FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0	12.0	CASING, boulder till?					
12.0	187.7	ANDESITE (BRECCIA), Medium green, fine grained matrix scattered fragments to 1" to 2". Badly fractured and broken near surface. Numerous carbonate-quartz stringers, interlacing. Rough banding and generally parallel carbonate-quartz stringers at 40-45d to core. Fragments, disappear at approximately 30 feet. Quartz veins, 1" @32.8, ½" at 33.2, ½" at 33.4, 1.5" at 33.6, with numerous narrow quartz carbonate stringers in between. <1% pyrite, moderate shearing. 34.6-38.3, numerous quartz carbonate stringers probably 15-20% of rock. moderately sheared. Shear zone is narrow quartz stringer at 30d to C.A. at 65.0'					
			5812	32.6	34.6	2.0'	Tr.
			5813	34.6	38.3	3.7'	Tr.
		68.0-91.0, more massive occasional slight banding Scattered narrow <½" quartz-carbonate stringers.					
		91.0-92.0, silicified zone. 2" pale brown felsic dyke at 91.9. quartz veins 1" wide on contact with silicification extending into walls. well banded 45d-50d to C.A.	5814	91.0	92.0	1.0	Tr.



FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
		92.0-144.0, ANDESITE (Flow?) - medium green fine grained, slightly banded @ to C.A.					
		Numerous narrow quartz-carbonate stringers to 4" with fine black tourmaline					
		144.0 - 156.0, increase in carbonate-quartz stringers to approximately 5% of rock					
		156-187.7, carbonate-quartz stringers to approximately 15-20% of rock. <1% pyrite, more chloritic scattered narrow zones up to 5% pyrite, minor magnetite and/or pyrrhotite --CHARACTER SAMPLE	5815	163.0	168.0	5.0	Tr.
187.7	188.7	QUARTZ VEIN, white quartz, minor tourmaline, pyrite	5816	187.7	188.7	1.0	Tr.
188.7	397.0	ANDESITE, as above, 3-5% carbonate-quartz stringers decreasing 1" quartz vein to 2-5% pyrite at 194.0'. Quartz 1" at 230.0, 1" @ 231.2, 2" at 232.0,	5817	231.9	232.9	1.0	Tr.
		232.4 to 232.7 with minor tourmaline and 5% pyrrhotite.					
		247.8-248.4 - quartz vein cut at 25d to C.A.					
		252.5-253.5 - quartz vein cut at 20-25d to C.A.					
		274.8-276.4, silicified zone, with quartz pale brown (dyke?) with 30-40% quartz, 2-3% pyrrhotite	5818	274.8	276.4	2.6	Tr.
		276.4-277.8, altered, silicified to pale greenish colour. minor carbonate-quartz stringers.					
		277.8-280.5, more silicified, 20-25% carbonate-quartz stringers. zones of pale brownish-green alteration 3-5% pyrrhotite in narrow stringers,	5819	277.8	280.5	2.7	Tr.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T AU
		chalcopyrite					
		280.5-291.3, slightly altered, occasional carbonate quartz stringers, minor pyrite					
		283.6-284.0-quartz carbonate vein					
		291.3-292.9- silicified to pinkish color with 50% quartz-carbonate, minor pyrrhotite-3.5% <2% pyrite	5820	291.3	292.9	1.6	Tr.
		292.9-294.6, as above (280.5-291.3)					
		294.6-296.8 - silicified zone pale greenish-brown with 10-12% quartz carbonate, minor pyrrhotite, pyrite	5821	294.6	296.8	2.2	Tr.
		296.8-330.0, sections slightly silicified scattered narrow carbonate-quartz stringers occasional pyrrhotite-pyrite. 2" quartz vein with minor carbonate at 324.0'					
		330.0-356.0, gradual change to less to nil silicification, still occasional quartz-carbonate stringers.					
		356.0-361.7, gradual change from above, moderate pale brownish silicic? Alteration as before					
		Numerous quartz-carbonate stringers and narrow veins with minor pyrite, pyrrhotite					
		361.7-362.2, QUARTZ VEIN, 2-3% pyrrhotite, pyrite at approximate 50d to C.A..	5822	361.7	362.2	0.5	Tr.
		362.2-382.2, as above (356.0-361.7)					
		382.2-384.8- carbonate-quartz breccia 50% carbonate, 10-15% quartz 50-40% arderite fragments.	5823	382.2	384.8	2.6	Tr.

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
		384.8-400 andesite minor alteration (silicic) 3' quartz vein @ 390.0					
397.0		END OF HOLE					
		DEEPENING:					
397.0	497.0	ANDESITE, PILLOWED medium to dark green, fine grained, massive to slightly foliated. Numerous fractures, many with light grey carbonate. Occasional quartz stringer.	857	398.7	399.3	0.6'	Tr.
		398.7-399.3, 50% carbonate, light grey irregular					
		404.0-404.5, silicified zone, light creamy colour, minor pyrrhotite along fractures.	858	404.0	404.5	0.5'	.005
		408.2-408.5 carbonate vein	859	408.2	408.5	0.3'	.005
		418.3-418.6, QUARTZ-CARBONATE VEIN, contacts at 40-55d to core. Minor tourmaline, pyrrhotite	860	418.3	418.8	0.5'	Tr.
		418.6-422.7, heavy carbonate probably 30% in veins and stringers, minor quartz and pyrrhotite	861	418.6	422.7	4.1'	.005
		422.7-423.0, Carbonate-quartz vein 60% carbonate, minor pyrite.	862	422.7	423.0	0.3'	.005
		423.0-425.6, heavy carbonate as above (418.6-422.7)	863	423.0	425.6	2.6'	.005
		440.4-440.8, Quartz Vein, minor carbonate	864	440.4	440.8	0.4'	.01
497.0		END OF HOLE.					



LEGEND

- V Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics

- Fault
- Shearing, Schistosity

ALTERATION

- T Tourmaline
- C Carbonate
- Ch Chlorite
- Si Silicic

SULPHIDES

Py	Pyrite
Po	Pyrrhotite
Cp	Chalcopyrite
Sp	Sphalerite
Ga	Galena
As	Arsenopyrite
0-25/30'	Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-3

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge, P.Eng.	Map No.	

LOCATION Albany River Shaft Area D Zone BEARING South DIP 50d

STARTED April 16/81

LATITUDE 41° 00' N

TESTS:

COMPLETED April 24/81

DEPARTURE 51+75

DEPTH	DIP	BEARING
200	49d	
400	47d	

ULTIMATE DEPTH 406'

ELEVATION ----

LOGGED BY H.J. Hodge

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0.0	6.0	CASING					
6.0	110.4	ANDESITE, medium green, fine grained massive to slightly banded. will fractured with carbonate, quartz and tourmaline stringers. 1" quartz stringers with vuggy iron oxide stains at 117.6. Quartz stringer with black alteration at 27.0-27.6					
		36.0-57.0, increasing fractures in tourmaline carbonate					
		57.0-58.4, blackish alteration with intense fracturing with fine carbonate veinlets. 8-10% pyrrhotite, pyrite and traces of chalcopyrite	5824	57.0	58.4	1.4	Tr.
		58.4-94.6, as above (36.0-57.0), chloritic					
		94.6-105.8, brownish alteration (carbonate) with minor chloritic fractured to carbonate stringers as before. Alternates with section of green chlorite alteration					
		105.8-106.9 quartz vein zone. numerous quartz veins up to 2" with tourmaline, 10%-15% pyrite, pyrrhotite, traces of chalcopyrite. Strongly banded at 50d to C.A.	5825	105.6	106.9	1.3	Tr.



CONTRACTOR

SIGNED

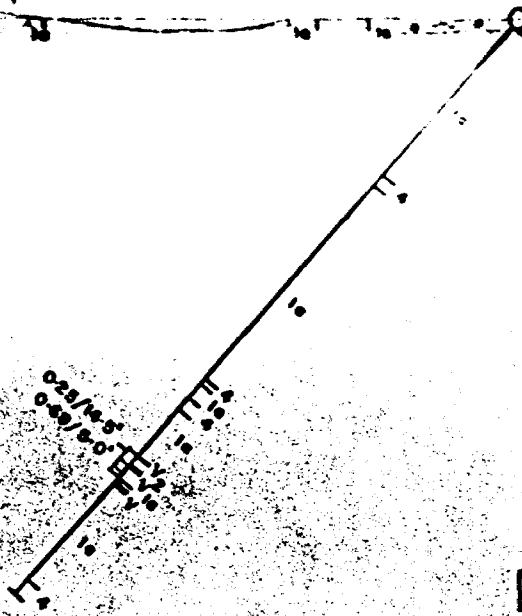
FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
110.4	117.0	IRON FORMATION. N. sharp contact 43d to C.A. Alternating bands of green chlorite, light grey siliceous tuff and magnetite. Magnetite bands are generally less than 1/4", chlorite and siliceous tuff - 4"-6" minor carbonate, in stringers numerous narrow stringers of massive pyrrhotite	5826	110.0	115.0	5.0	Tr.
		pyrite and traces of chalcopyrite, principally in chloritic bands.	5827	115.0	117.0	2.0	Tr.
117.0	253.0	ANDESITE, as before (36.0-57.0) 125.0-203.0, more massive, less veining and tourmaline, 2" quartz vein in 50% pyrrhotite and pyrite at 214.0, 1" same at 215.5.					
253.0	257.3	IRON FORMATION, as before, more magnetite. 5-8% scattered sulphides, pyrrhotite, minor pyrite, 1% chalcopyrite, occasional sphalerite	5828	253.0	257.3	4.3	Tr.
		253.9-254.6- quartz with 10%-12% pyrrhotite minor pyrite and chalcopyrite. 2" quartz - 20% sulphides @ 255.5					
257.3	267.9	ANDESITE, as before. 2" cherts with 5% pyrrhotite at 266.2					
267.9	275.3	IRON FORMATION, as above. siliceous (chert) bands prominent 8-10% sulphides mainly pyrrhotite	5829	267.9	273.9	5.0	Tr.
		minor pyrite, numerous stringers and blebs of chalcopyrite, traces of sphalerite, considerable quartz stringers	5830	273.9	275.3	1.4	Tr.
275.3	310.5	ANDESITE, as above					
310.5	315.5	QUARTZ VEIN. Strong Zone, banded with pale greenish sericitic wall rock and white -grey quartz	5831	310.5	315.5	5.0	.03

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyte
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke, Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ch Chlorite
 - sl Silicic

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-4

LOOKING WEST

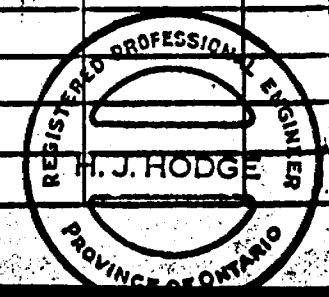
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

LOCATION Albany River Shaft Area, D Zone BEARING Grid s DIP 50d
 TESTS:
 DEPARTURE 56.00
 ELEVATION -----

200	47d	
566	42d	

STARTED April 25/81
 COMPLETED April 25/81
 ULTIMATE DEPTH 566'
 LOGGED BY H. J. Hodge

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	PBT	Au Oz/T
From	To						
0.0	76.0	CASING					
76.0	93.5	ANDESITE, medium green colour, fine grained, moderately banded at 55d to 60d to C.A. Scattered siliceous (chert?) bands, and minor magnetite. NB Weak Iron Formation?. Considerably fractured near surface with iron oxides 83.2-84.0 - grey quartz or silicified zone: 2" quartz at 84.5, 86.2, 90.6 to 91.7. 2" quartz and shear zone at 93.0	5838	83.0	83.9	0.9	Tr.
			5839	90.6	92.0	1.4	Tr.
93.5	99.0	IRON FORMATION. Interbanded magnetite and chert. Highly contorted (drag folded), 5-10% pyrrhotite, minor pyrite, traces chalcopyrite, Badly broken Minor quartz veining. Minor graphite	5840	93.5	99.0	5.5	Tr.
99.0	113.0	FAULT ZONE, badly broken core, heavily chloritized and sheared, some iron formation, mainly andesite, LOST CORE 99.0 to 102.0, 108 to 110, 111.0 to 113.0					
113.0	114.8	IRON FORMATION well bedded at 60d to C.A. narrow bands of magnetite to 3-4 m.m. with chert and chlorite.					



FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
114.8	162.3	ANDESITE, medium green massive to moderately banded, occasional bands of black magnetite as at 126.0, 128.8-129.4					
162.3	174.0	IRON FORMATION, as before extremely well bedded at 65d to C.A. interbeds of black magnetite whitish to pale yellowish chert and minor pale green chlorite. Minor pyrrhotite with occasional narrow section up to 5% banding contorted (drag folded) at contact and at several other locations. Moderately carbonaceous.	5841	162.3	167.3	5.0	Tr.
			5842	167.3	172.3	5.0	Tr.
			5843	172.3	174.0	1.7	Tr.
174.0	182.8	ANDESITE medium green, moderately banded. numerous fine white carbonate flecks.					
182.8	191.2	IRON FORMATION, as above, bedding more contorted several narrow sections carry 15-20% pyrite	5844	182.5	187.5	5.0	Tr.
		Andesite sections with minor magnetite bands at 191.4 to 198.2	5845	187.5	191.2	3.7	Tr.
191.2	237.5	ANDESITE, medium green, peculiar mottled texture, heavily carbonatized 199.0-199.6 - magnetite, 15% pyrite, pyrrhotite 206.0- blackish alteration, appears to be highly folded					
237.5	250.0	IRON FORMATION nearly massive magnetite, minor chert and chlorite 10-15% pyrrhotite, minor pyrite, traces of chalcopyrite bedding @ 45d to C.A. contorted in places	5847	237.5	242.5	5.0	Tr.
			5848	242.5	247.5	5.0	Tr.
			5849	247.5	250.0	2.5	Tr.
250.0	261.3	ANDESITE, light green, massive.					
261.3	263.6	IRON FORMATION, as above (237.5-250.0) banding 60d to C.A.	5850	261.3	263.3	2.3	Tr.
263.6	274.5	ANDESITE, as above 1" irregular quartz vein with tourmaline at 262.0					

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
274.5	285.3	IRON FORMATION, principally massive magnetite, with minor pale greenish chert, 10-15% pyrrhotite	5851	274.5	279.5	5.0	Tr.
		over old 50% pyrrhotite @ 284.9-285.3	5852	279.5	284.5	5.0	Tr.
			5853	284.5	285.3	0.0	Tr.
285.3	367.6	ANDESITE, as above. minor pyrrhotite in narrow sections. 2" irregular quartz at 358.2, 2" quartz at 365.9', 1" quartz at 367.2					
367.6	370.3	QUARTZ VEIN, milky quartz, massive	5854	367.6	370.3	2.7	Tr.
370.3	391.8	ANDESITE, as above.	5876	376.0	379.2	3.2	Tr.
		379.2-379.8 quartz vein	5855	379.2	380.7	1.5	.10
		380.1-380.7 quartz vein, v.g.?	5877	380.7	383.2	1.5	Tr.
		383.2-383.7 80% pyrite, 2-3% chalcopyrite, banded at 60d to C.A.	5856	383.2	384.6	1.4	.02
		383.7-384.6 20% pyrite, minor pyrrhotite, chalcopyrite					
391.8	393.7	QUARTZ VEIN, milky white, massive contact 65d to C.A. (approx.)	5857	391.8	393.7	1.9	Tr.
393.7	397.2	ANDESITE, as before considerable quartz in narrow veinlets. 2" quartz @ 395.9, 396.7	3034	393.7	397.2	3.5'	Tr.
397.2	398.6	QUARTZ VEIN, as above (391.8-393.7) In contact 60 d to core, out contact 45d	5858	397.2	402.2	5.0	.32
398.6	400.7	ANDESITE, as above, quartz veins 3" @399.7, 2" 400.1	3035	402.2	406.0	3.8'	Tr.
400.7	402.1	QUARTZ VEIN, as above, more chlorite					
402.1	411.0	ANDESITE, as above, considerable quartz, sections silicified to light grey color. possibly RHYOLITIC					

LOCATION Albany River Shaft Area

BEARING Grid S DIP 50d

STARTED April 26/81

LATITUDE 49° 15' 30" N

TESTS:

COMPLETED April 27/81

DEPARTURE 44+00 East

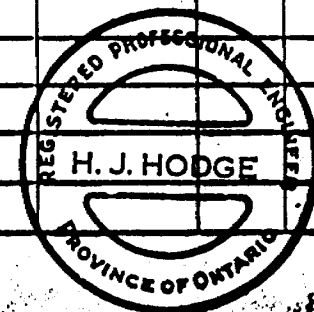
DEPTH	DIP	BEARING
300	47d	
400	42d	

ULTIMATE DEPTH 406'

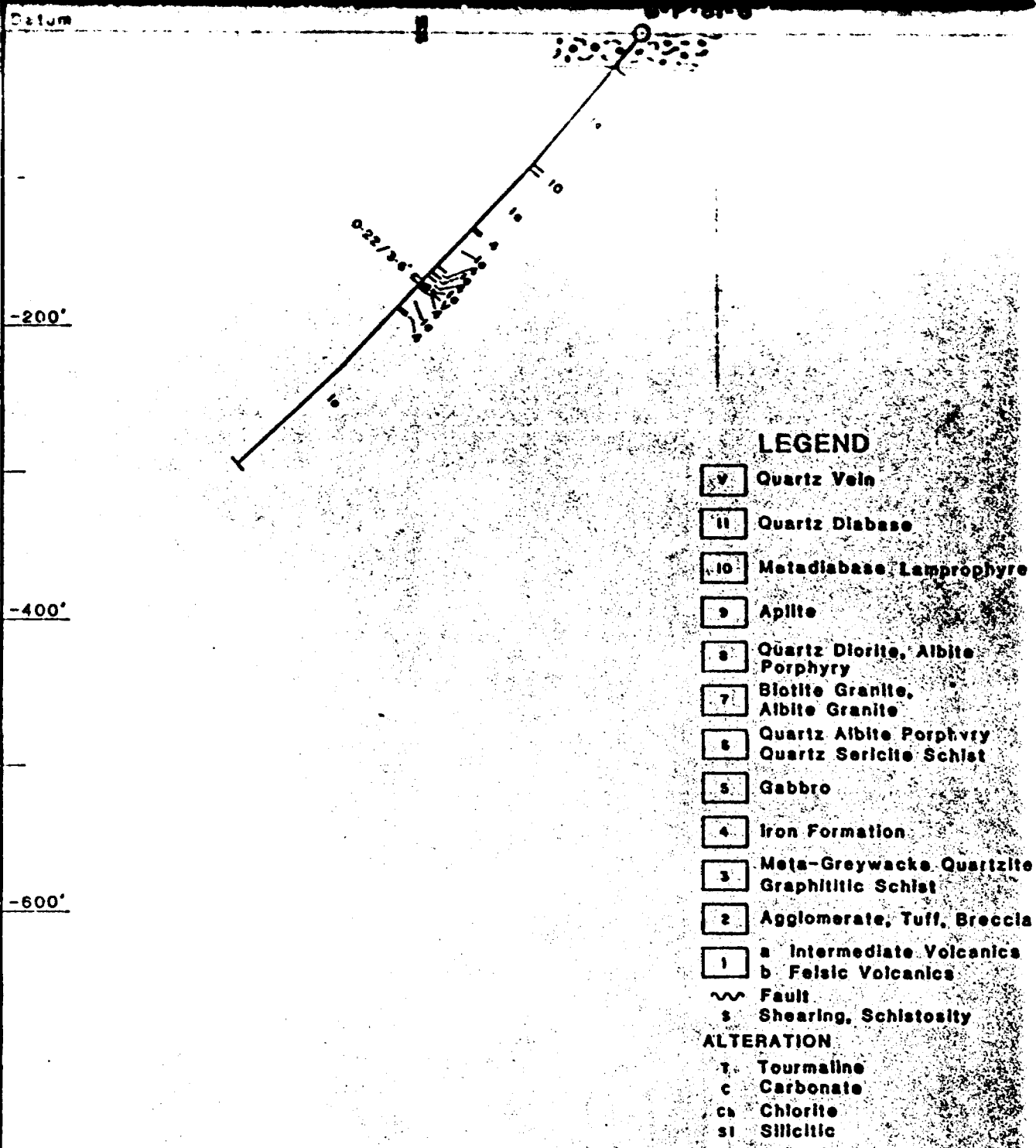
ELEVATION ----

LOGGED BY H. J. Hodge

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0.0	30.0	Casing					
30.0	117.6	ANDESITE, medium to light green, massive to poorly banded. Considerable fine fracturing, scattered narrow zones of heavy pyrite, traces of chalcopryrite.					
117.6	120.2	Basic Dyke, dark green, fine grained, massive					
120.2	174.0	ANDESITE, as above					
174.0	176.7	Iron Formation, mainly massive magnetite, 15-20% pyrrhotite numerous blebs of chalcopryrite and sphalerite, <1%, well banded 65d to C.A. Heavy pyrrhotite with minor (<1%) chalcopryrite	5864	174.0	176.7	2.7	Tr.
		147.6 147.9, 150.0-150.4					
176.7	210.5	ANDESITE, more carbonatized and fractured than before					
210.5	215.3	IRON FORMATION, magnetite-sulphide, 60% black massive magnetite, 30-40% pyrrhotite, ubiquitous sphalerite and chalcopryrite, approximately 1%. Rough banding at 95d to C.A., but numerous local drag folding.	5865	210.5	215.5	5.0	Tr.
215.3	219.9	ANDESITE, as before					



FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
219.9	224.6	IRON FORMATION, hematite with pale green siliceous sericitic sections, highly contorted. 8-10% pyrrhotite, 1% reddish sphalerite and chalcop- pyrite.	5846	221.2	224.4	3.2	Tr.
		221.2-224.6 20%-30% pyrrhotite, 1% chalcopyrite and sphalerite.					
224.6	227.0	ANDESITE, as above					
		226.0-226.6 8-10% pyrrhotite, traces chalco- pyrite and sphalerite in some quartz	5878	224.4	227.0	2.6	.03
227.0	230.6	IRON FORMATION, as above +30% sulphides, pyrr- hotite 2-3% arsenopyrite, 1% sphalerite and chalcopyrite	5866	227.0	230.6	3.6	.22
		227.2-228.0 quartz to 20% sulphides as above					
230.6	406.0	ANDESITE, as before, banded @ 45d to C.A. 4" quartz, & minor pyrrhotite, chalcopyrite at 233.6, quartz in minor arsenopyrite at 234.0- 234.3.	5879	230.6	233.0	2.4	Tr.
		249.7-251.0 iron formation, 25% pyrrhotite, minor chalcopyrite and sphalerite. Quartz	5867	249.7	251.0	1.3	Tr.
		veins 339.3-339.7, 340.4-341.3, milky quartz traces pyrite and chalcopyrite, minor tourma- line. 30% andesite.	5868	339.3	341.3	2.0	Tr.
		Quartz veins 343.8-344.2, 344.3 -344.6	5869	343.8	344.8	1.0	Tr.
406.0		END OF HOLE					



LEGEND

- 11 Quartz Vein
 - 10 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke, Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ch Chlorite
 - sl Silicific

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0-25/30' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.		
PICKLE CROW OPTION, ONTARIO PICKLE LAKE AREA, ONTARIO VERTICAL SECTION		
D.D.H. G-P-81-6		
LOOKING WEST		
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No:	

LOCATION No. 3 Shaft Area

BEARING Grid S DIP -50d

STARTED April 28/81

LATITUDE 44-50 N

TESTS:

COMPLETED June 28/81

DEPARTURE 12:00

DATE	TIME	BEARING
28	49d	
400	44d	

ULTIMATE DEPTH 406

ELEVATION _____

LOGGED BY H.J. Hodge

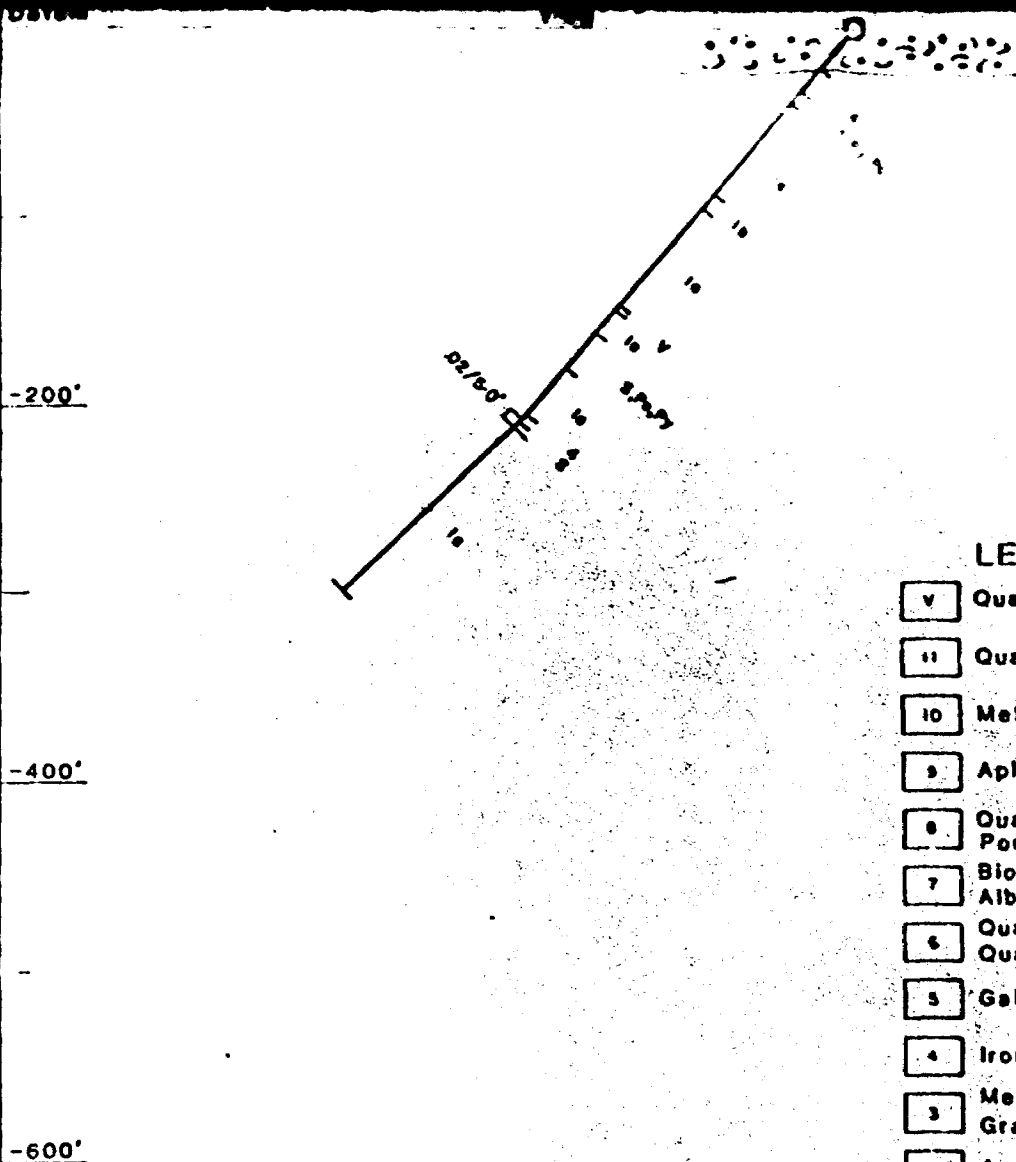
FOOTAGE From	To	DESCRIPTION	SAMPLE NO.	FROM	TO	PKET	Au Oz/T
0.0	28.0	CASING					
28.0	41.5	IRON FORMATION, well banded magnetite, partially oxidized near surface (10-15%) and light grey chert banded 40d to C.A. Fault zone @ 38.0 1" fault gouge, chloritic					
41.5	50.5	MASSIVE SULPHIDES 60-80% sulphides, pyrite, pre-dominantly pyrite, 5-8% pyrrhotite, numerous traces of sphalerite, occasional blebs of chalcopyrite, 20% chert. Quartz vein 47.5-48.0, 49.5-50.0. Fault Zone at 49 @ 1" gouge, approximately 60d to core.	5870	41.5	45.5	4.0	Tr.
			5871	45.5	50.5	5.0	Tr.
50.5	113.0	ANDESITE, light to dark green, variably silicified + chloritized, moderately to well banded at 50d to C.A. Occasional narrow seamlets of pyrrhotite 65.0-115.0, more massive, medium green colour, less alteration. Considerable carbonate					
113.0	122.4	Rhyolite? Rhyodacite? light grey, fine grained, very siliceous, lightly banded at 50d to C.A.					
112.4	236.5	ANDESITE, medium green; fine grained, Moderately to well banded at 45d to 50d to C.A. Colour banding suggest coarse tuff or tuff breccia.					



CONTRACTOR

SIGNER

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T
		145.6-210.0, light grey, more massive than above, siliceous. Occasional bands to 3" of black (chloritic?) alteration with minor pyrrhotite.					
		Quartz veins with heavy tourmaline, minor pyrrhotite and pyrite 192.7-192.8, 193.6-194.0, 1" at 194.2, 1" at 194.8	5872	192.7	194.8	2.1	Tr.
		210.0-211.2, sulphide zone - 30% pyrrhotite 5% pyrite, occasional chalcopyrite with 2' silicified zone at 210.4-210.6	5873	210.0	211.2	1.2	Tr.
		210.6 - 236.5 - silicified to light grey color. probably Dacite? Rhyodacite					
236.5	262.5	IRON FORMATION, in contact at approximately 20d to C.A. predominantly magnetite with 15% to 20% chlorite. 10%-15% pyrrhotite in irregular stringers and disseminated throughout. Numerous blotches of chalcopyrite.					
		238.0 - 262.5 , changes to silicic (chert?) bands, considerable contortion of bands due to drag-folding					
262.5	268.5	ANDESITE, fine grained, light green, numerous irregular narrow zones of cream colored silicic alteration. occasional quartz stringers.					
268.5	278.4	IRON FORMATION, as above					
		270.3-271.9- mainly andesite as above (262.5-268.5)					



LEGEND

- v Quartz Vein
- 11 Quartz D' base
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry
Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite
Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- t Tourmaline
- c Carbonate
- cs Chlorite
- si Silicitic

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cs Chalcopyrite
- Ss Sphalerite
- Gs Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-7

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

LOCATION Anomaly X

BEARING Grid S DIP 50d

STARTED April 29/81

LATITUDE _____

TESTS:

COMPLETED April 29/81

DEPARTURE _____

TEST	DIP	BEARING
200	440	

ULTIMATE DEPTH 406'

ELEVATION _____

LOGGED BY H.J. Hodge

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0.0	28.0	CASING					
28.0	116.6	ANDESITE, dark greenish grey, fine grained, massive to slightly banded at 50d to C.A. Strongly carbonatized with numerous thin stringers and elongate blebs of carbonate up to 1/4". Scattered quartz stringers					
116.6	125.5	ANDESITE FRAGMENTAL, (TUFF BRECCIA?) Lighter greenish grey than above, well banded @ 70d to C.A. Numerous elongate, hazy fragments? of light to medium grey material. Occasional quartz veinlets. Lightly carbonatized					
125.5	128.3	QUARTZ VEIN, milky white, minor tourmaline.	5880	125.5	128.3	2.8	Tr.
128.3	406.0	ANDESITE, fine grained medium green colour, slightly banded @ 65-70d to C.A. 205.0-220.6, silicified to light grey, numerous quartz veins to 1" 220.6 - 406.0, as before (128.3-205.0) moderately chloritic. Becomes more carbonatized with numerous stringers and blebs of carbonate					
406.0		END OF HOLE					

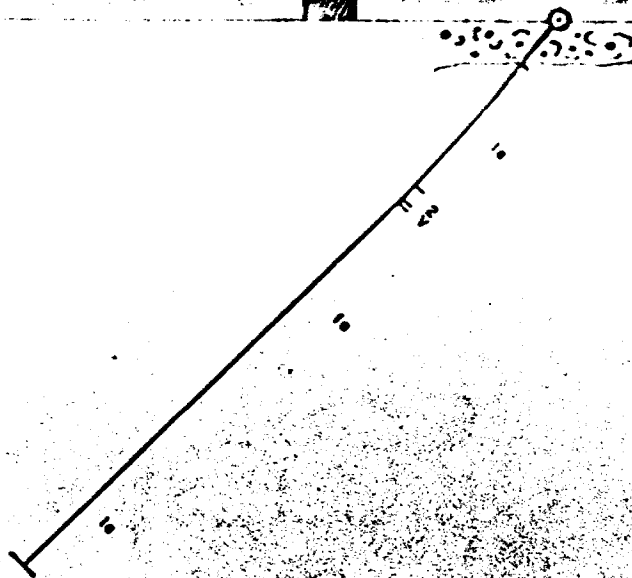


Down

-200'

-400'

-600'



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry, Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite, Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics, b Felsic Volcanics

~ Fault
s Shearing, Schistosity

ALTERATION

- t Tourmaline
- c Carbonate
- ch Chlorite
- si Silicic

SULPHIDES

- Py Pyrite
- Po Pyrrhoite
- Cs Chalcopyrite
- Ss Sphalerite
- Gs Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-8

LOOKING WEST

Date: May, 1981 Scale: 1" = 100' Drawn: gms

Author: H.J. Hodge P.Eng. Map No.

DIAMOND DRILL RECORD

PROPERTY Pickle Creek Property - Snow HOLE NO. G-P-81-9 SHEET NO. 1

LOCATION Pickle Creek Property - Snow BEARING Grid S DIP 50d STARTED April 30/81

LATITUDE River Area 1+00 S TESTS: COMPLETED May 1/81

DEPARTURE 28+00 E

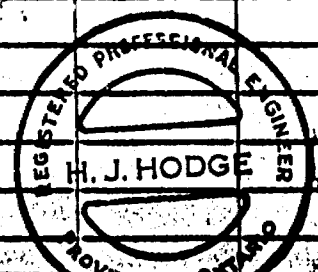
ELEVATION _____

FOOTAGE	DIP	BEARING
200	40d	
400	35d	

ULTIMATE DEPTH: 403'

LOGGED BY H.J. Hodge

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0.0	22.0	CASING					
22.0	403	ANDESITE, fine grained, medium green, massive, numerous quartz-carbonate stringers sections silicified to light grey colour, 148.0-394.5, heavy brown sericitic alteration, banded at 55d to 60d to C.A. Numerous quartz-carbonate stringers.					
		FAULT? ZONE 151', with gouge					
		QUARTZ VEINS 1" @ 156.6, 161.3-161.5, 165.6-166.3					
		2" @ 171.0, 174.2-174.4, 2" @ 175.2, 179.0-179.2, 179.4-179.6, 181.3-181.5					
		222.0-222.6, QUARTZ VEIN, minor tourmaline.	3028	222.0	222.6	0.6'	Tr.
		Quartz veins with tourmaline at 244.4-244.6, 249.0-249.8, 1" at 271.8, 1" at 273.6, 275.0-275.2	3029	249.0	250.0	1.0'	Tr.
		Carbonate breccia zone 487.7-488.2, light grey Calcite matrix with sub-angular with andesite fragments. Increase quartz down the hole.					
		394.5-397, GREY DYKE, fine to medium grained.					
		397.5-403.0, andesite as above. Grey dyke at 399.6-400.4					
403		END OF HOLE					



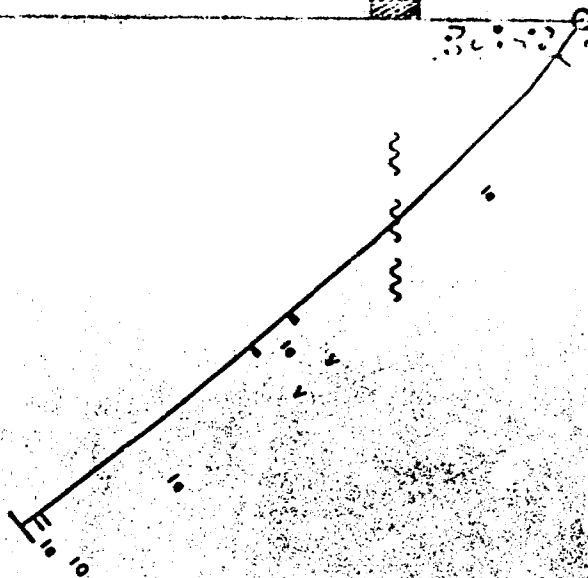
G-P-81-9

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry, Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Graywacke Quartzite, Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics, b Felsic Volcanics

- ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- t Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicific

SULPHIDES

- Py Pyrite
- Ps Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/50' Au oz/ton/core length (feet)

▨ VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-9

LOOKING WEST

Date: May, 1981 | Scale: 1" = 100' | Drawn: gmea

Author: H.J. Hodges, P.Eng. | Map No. 81-9

DIAMOND DRILL RECORD

PROPERTY Callant - Pickle Crow Option

HOLE NO. P-81-10 SHEET NO. 1

LOCATION Albany River Mill Zone

BEARING Grid South DIP -50d

STARTED May 2/81

LATITUDE 20+00 S

TESTS:

COMPLETED May 3/81

DEPART. RE52+00 E

FOOTAGE	DIP	BEARING
250'	47d	
500'	42d	

ULTIMATE DEPTH 506'

ELEVATION _____

LOGGED BY H.J. Hodge

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	8.0	CASING					
8.0	73.2	ANDESITE, medium green colour, fine grained, massive to slightly banded in narrow sections. Numerous irregular fine carbonate-quartz stringers. 1" banded quartz-silicate at 15.8					
		22.4-23.4, Quartz vein zone irregular quartz veins (60%), cutting andesite with considerable tourmaline. Minor sulphides	5881	22.4	24.0	1.6'	Tr.
		23.4-37.7, medium green as above, numerous irregular black tourmaline veinlets and fracture fillings with subordinate carbonate and quartz minor pyrrhotite, pyrite (5%), scattered blebs of chalcopyrite.					
		37.7-38.3, blackish alteration with narrow (2½") quartz veins with numerous fine seamlets of carbonate, veins are well banded @ 20-30d to C.A.					
		38.3-48.5, heavier tourmaline than before, 10-15% of rock, with minor quartz-carbonate	5882	31.0	41.0	10.0'	Tr.
			5883	41.0	46.0	5.0'	Tr.



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 10

SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		48.5-51.0, QUARTZ-SULPHIDE-MAGNETITE ZONE (IRON FORMATION) 50% pyrrhotite, magnetite, pyrite, from					
		48.5-49.2, grey quartz (chert?) with minor pyrite					
		and pyrrhotite, occasional blebs of chalcopyrite	5884	46.0	51.0	5.0'	Tr.
		51.0-73.2, as before 80-23.4, minor tourmaline					
73.2	76.5	IRON FORMATION, alternating bands of black magnetite, light grey chert and green chlorite. 5% pyrrhotite, minor yellow carbonate banding 55d-					
		60d to C.A.	5885	73.2	76.5	3.3'	Tr.
76.5	162.8	ANDESITE, as before. Numerous irregular fractures filled with carbonate, minor tourmaline.					
		80.0-81.8, INTERMEDIATE DYKE, medium grey, massive medium grained, feldspar, minor quartz, considerable brown biotite contacts 25d to 30d to C.A.					
		81.8-150.2, as before less carbonate and tourmaline. 1" cherty iron formation with minor pyrrhotite @ 135.5.					
		150.2-153.0, more carbonate veinlets, probably 8-10% of rock.					
		153.0-154.4, well banded at 80d to C.A., dark grey to black alteration with 'clots' of black tourmaline (hard!) minor quartz in parallel veins to 1" at 153.4.					

DIAMOND DRILL RECORD

PROPERTY Callahan - 1 mile from New York HOLE NO. 10 QUANT. NO. 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T Au
		154.4-162.8, as above (81.8-150.2) irregular quartz 159.0-159.5, peculiar ovular texture with whitish grey quartz-carbonate 'eggs' in grey quartz-carbonate ground mass.					
162.8	163.9	IRON FORMATION, well banded magnetite chert and chlorite. 8-10% pyrrhotite in irregular stringers less than 1% chalcopyrite, traces of sphalerite, banding 65-70d to C.A.	5886	162.8	163.9	1.1'	Tr.
163.9	166.2	ANDESITE, as before					
166.2	169.8	IRON FORMATION, as above, banding 35-45d to C.A. but highly contorted (drag folded).	5887	166.2	169.8	3.6'	Tr.
169.8	237.0	ANDESITE, as before					
237.0	238.5	QUARTZ VEIN ZONE, Irregular quartz-carbonate veinlets roughly banded at approximately 30d to C.A. 5-8% pyrrhotite, pyrite, probably 20-25% quartz over all.	5888	237.0	238.5	1.5'	.02
238.5	258.0	ANDESITE, medium green, massive, as before					
		253.0-254.5', moderately banded (sheared?) at 75d to C.A. TUFF?					
		254.5-256.0, 8-10% pyrite, pyrrhotite, minor quartz	5889	255.5	257.0	1.5'	.02
		256.0-256.5 QUARTZ VEIN. grey quartz, contact 10d to C.A.					
		256.5-258.0, banded as above, minor sulphides					

DIAMOND DRILL RECORD

PROPERTY Galena-Buckle Creek Mine

HOLE NO. 10

SHEET NO. 4

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	OZ/T Au
258.0	264.0	IRON FORMATION, mainly chert for first three feet with minor chlorite and magnetite, 3-5% pyrrhotite pyrite. At 261.0 becomes heavy in magnetite, 15-20% pyrrhotite, minor pyrite, traces of chalcopyrite, banding irregular but generally at 65-75% to C.A.	5890	258.0	264.0	6.0'	Tr.
264.0	278.7	ANDESITE, medium grey. suggestions of fragments to 272.0. After 270.0, massive.					
278.7	286.4	IRON FORMATION, banded magnetite (60-70%) and chlorite (10-15%) minor chert. 3-5% pyrrhotite less than 1% chalcopyrite in scattered irregular zones. Banding variable but approximately 60-70% to C.A.	5891	278.7	284.0	5.3'	Tr.
		285.6-286.4, as above but with 5-8% ARSENOPYRITE with 1" irregular quartz at 286.4	5892	284.0	286.4	2.4'	.02
286.4	302.8	ANDESITE, as above 302.0-302.8, IRON FORMATION, thinly bedded magnetite and chert					
302.8	325.1	ANDESITE TUFF? Weak iron formation? fine grained medium to dark green moderately to well banded andesite with occasional cherty sections, fractured and occasional section of broken core. 1" band of 7% pyrite at 321'					

DIAMOND DRILL RECORD

PROPERTY _____

Location - Beckle Snow Glacier

HOLE NO. 10

SHOULDER NO. 5

DEPTH	DIAMETER	DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T
							All
325.0	326.9	IRON FORMATION, mainly magnetite with minor quartz, well banded @ 65d to C.A., 8-10% pyrite, pyrrhotite	5893	325.0	328.0	3.0'	Tr.
326.9	328.9	ANDESITE TUFF as above. 270.7-271.0, IRON FORMATION, 5-10% pyrite and pyrrhotite.					
328.5	349.8	IRON FORMATION, well banded magnetite with minor chert 5-8% pyrrhotite, minor chalcopyrite. Minor ARSENOPYRITE (1%) as at 330.0. increasing pyrrhotite with some sections up to 20-25% banding @ 55-60d to C.A.	5894 5895 5896 5897 5898	328.9 333.9 339.0 343.5 347.5	333.9 339.0 343.5 347.5 350.0	5.0' 5.1' 4.5' 4.0' 2.5'	Tr. Tr. Tr. Tr. Tr.
349.8	364.6	ANDESITE, medium green, fine grained, massive, possibly coarse breccia, suggestions of fragments.					
364.6	373.0	IRON FORMATION, 80-85% magnetite, minor chlorite 2-3% pyrrhotite plus pyrite, occasional blebs of chalcopyrite.	5899 5900	364.5 369.0	369.0 373.0	4.5' 4.0'	Tr. Tr.
373.0	506.0	ANDESITE, as above, 448.2-449.0, quartz vein with 3.5% pyrite folded along core axis. FELDSPAR PORPHYRY DYKES 461.0-462.0, 476.3-477.7 dark grey matrix, greyish white feldspar phenocrysts up to 3 mm	3001	448.0	449.2	1.2'	Tr.
506.0		End of Hole.					

DIAMOND DRILL RECORD

PROPERTY Galena-Richley Creek HOLE NO. G-P-81-11 SHEET NO. 1

LOCATION Albany River Zone

BEARING 41d DIP 40d

STARTED May 4/81

LATITUDE 20+00 S

TESTS:

COMPLETED May 5/81

DEPARTURE 53+00 East

FOOTAGE	DIP	BEARING
250	42d	
506	43d	

ULTIMATE DEPTH 506'

ELEVATION _____

LOGGED BY H.J. Hodges

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	10.0	CASING					
10.0	264.4	ANDESITE, medium green, fine grained, massive, 8-10% black tourmaline in veinlets and irregular patches.					
		18.3-20.5-IRON FORMATION. Thin bedded black magnetite, green chlorite and light grey chert.					
		27.0-40, blotchy texture, chlorite blotches,					
		40.0-52.1, massive, fine grained.					
		52.1-52.6, FAULT ZONE? sheared and fractured at 45d to C.A. 30% pyrite, minor pyrrhotite, possibly arsenopyrite?	3002	52.1	52.6	0.5'	Tr.
		57.0-94.2, 15-20% tourmaline in stringers and blotches.					
		94.2-94.8, banded with 1" quartz 45d to C.A.	3003	94.2	94.8	0.6'	Tr.
		94.8-97.2, breccia, pale green fragments minor light grey-green matrix.					
		97.2-100.0, well banded TUFF? Numerous quartz-carbonate stringers @ 60d to C.A. 1" heavy (30%) pyrite with quartz stringers at 98.8. 1" iron	3004	96.0	100.0	4.0'	Tr.



DIAMOND DRILL RECORD

PROPERTY St. Lawrence Creek, OntarioHOLE NO. 11SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
		formation (magnetite) at 99.5					
		100.0-264.4, as before, heavy tourmaline decreasing down the hole.					
		122.0-122.6, irregular quartz veins (50% quartz) minor pyrrhotite, pyrite less than 2%. MAFIC					
		DYKE? 194-196.0, dark brownish grey, porphyritic with few feldspar phenocrysts, highly carbonatized. Increasing sulphides in narrow irregular zones, pyrrhotite, minor pyrite.	3005	122.0	122.6	0.6'	Tr.
264.4	275.0	IRON FORMATION, magnetite, chert and minor chlorite interbanded at 65d to C.A. chert predominates at in contact, magnetite increases to 50-60%. 8-10% pyrrhotite, numerous blebs of chalcopyrite, several 1" quartz veins with traces of arsenopyrite at 274.2 and 275.0	3006	264.4	269.0	4.6'	Tr.
			3007	269.0	273.5	4.4'	Tr.
			3008	273.5	275.0	1.5'	Tr.
275.0	310.0	ANDESITE (TUFF?) finely banded, changes to massive andesite at 280					
310.0	353.5	IRON FORMATION, banded magnetite, chlorite and chert, 345% pyrrhotite, minor pyrite, traces of chalcopyrite. Narrow sections with 50% sulphides	3009	310.0	315.0	5.0'	Tr.
			3010	315.0	320.0	5.0'	Tr.
			3011	320.0	325.0	5.0'	Tr.
			3012	325.0	330.0	5.0'	Tr.
			3013	330.0	335.0	5.0'	Tr.
			3014	335.0	340.0	5.0'	Tr.
			3015	340.0	345.0	5.0'	Tr.
			3016	345.0	350.0	5.0'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. _____

DEPTH NO. _____

		DEPTH	START	END	THICKNESS	REMARKS	
						Gr/% A"	
			3017	350.0	353.5	3.5'	.02
353.5	372.8	ANDESITE, as above					
		357.2-364.7, speckled texture. moderately to well banded, fairly sharp banded contact at 50d to C.A. 40-50% light grey lineated phenocrysts of feldspar and minor quartz in medium grey matrix, 1-2% disseminated pyrite.					
			900	363.2	363.0	0.8'	Tr.
			3018	364.7	367.4	2.7'	Tr.
			3065	367.4	371.6	4.2'	Tr.
			3019	371.6	376.0	4.4'	.46
			3066	376.0	381.0	5.0'	Tr.
372.8	376.0	QUARTZ-CARBONATE VEIN, white massive, 10-15% country rock. less than 1% pyrite, possible v.q.					
376.0	408.4	ANDESITE, speckled texture as above.					
		380.6-389.0, fine grained well banded. 3" quartz vein at 383.4'					
		389.0-408.4, very fine grained, grey colour, massive fractured					
408.4	410.0	IRON FORMATION, magnetite, chlorite, minor chert, banded at 45d to C.A. 10-12% pyrrhotite, minor chalcopyrite.					
			3020	408.4	410.0	1.6	Tr.

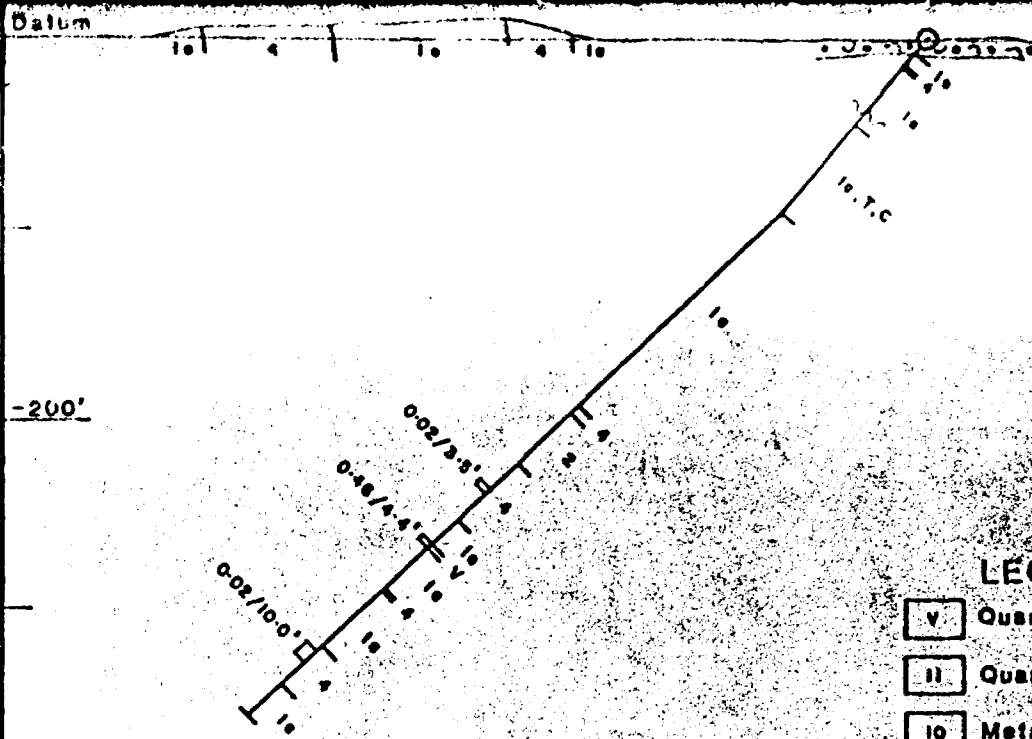
DIAMOND DRILL RECORD

PROPERTY

HOLE NO.

DEPTH NO.

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T (Au)
410.0	451.0					
	ANDESITE, WEAK IRON FORMATION, mainly chloritized andesite with scattered magnetite bands. Minor sulphides, pyrrhotite, minor pyrite and chalcopyrite in scattered sections.					
	441.4-445.4, heavy magnetite, banded. also 440.0-440.3, 448.0-448.6					
	450.5-451.0, FELDSPAR PORPHYRY. 10-15% white feldspar phenocrysts in a medium grey matrix.					
451.0	481.0					
	IRON FORMATION, banded magnetite, chlorite and chert. 15-20% pyrrhotite, pyrite less than 5% chalcopyrite. Some sections up to 70-80% pyrrhotite banding highly contorted	3021	451.0	456.0	5.0'	.01
		3022	456.0	461.0	5.0'	Tr.
		3023	461.0	466.0	5.0'	.02
		3024	466.0	471.0	5.0'	.02
481.0	506.0					
	ANDESITE, pale green, (silicified?) fine grained	3025	471.0	476.0	5.0'	Tr.
	497.2-499.2, QUARTZ VEIN ZONE	3026	476.0	481.0	5.0'	Tr.
	50% irregular quartz, 50% wall rock	3027	497.2	499.2	2.0'	Tr.
	499.2-506.0, numerous quartz stringers probably 30%.					
506.0	END OF HOLE.					



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry, Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite, Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a. Intermediate Volcanics, b. Felsic Volcanics

- Fault
- Shearing, Schistosity

ALTERATION

- T Tourmaline
- c Carbonate
- ch Chlorite
- si Silicite

SU: PHIDES

- Py Pyrite
- Po Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Gc Galena
- As Arsenopyrite

0-25/3-0' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-11

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gms
Author: H.J. Hodge, P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY Gallant-Pickle Crow Option

HOLE NO. G-P-81-12 SHEET NO. 1

LOCATION Albany Lower Staff Area, 101
Zone

BEARING Grid S. Dip 50d

STARTED May 6/81

LATITUDE 20+00 South

TESTS:

COMPLETED May 8/81

DEPARTURE 54+00 E

FOOTAGE	DIP	BEARING
250	46d	
500	41d	

ULTIMATE DEPTH 506'

ELEVATION _____

LOGGED BY H.J. Hodge

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0.0	36.0	CASING					
36.0	132.1	ANDESITE, fine grained, medium green, massive 15-20% black tourmaline in irregular stringers patches and massive zones. Occasional quartz- carbonate stringers 1".					
		60.6-61.4, IRON FORMATION, magnetite, minor chlorite, chert, 20% pyrite and pyrrhotite, minor quartz stringers.	3030	60.5	61.4	0.9'	Tr.
		61.4 -100.0, as above less tourmaline (3-5%) 3" quartz vein at 82.5, 4" well banded Iron Formation at 90.0.					
		100-132.1, weak IRON FORMATION with scattered bands of magnetite and chert but mainly chloritic andesite, minor pyrite, pyrrhotite with the magnetite.					
132.1	137.0	QUARTZ VEIN? CHERT? Brownish grey colour fract- ured but otherwise massive, 10% chloritic and- esite. minor pyrite, pyrrhotite less than 1% overall	3031	132.0	137.0	5.0'	Tr.



DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 12 SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
137.0	290.0	ANDESITE, medium green, massive, moderately chloritized, scattered quartz-carbonate veinlets.					
		174.0-175.6, QUARTZ? CHERT? as above	3032	174.0	176.0	2.0'	Tr.
		175.6-181.4, as above (137-174)					
		181.4-182.9, heavy brown carbonate alteration numerous carbonate-quartz veinlets, minor sulphides.					
		182.9-183.7, QUARTZ VEIN, 5-8% pyrite, pyrrhotite	3033	181.4	183.7	3.3'	Tr.
		183.7-216.0, as above (137.0-174.0), considerable carbonate-quartz veinlets and some brownish carbonate alteration. Scattered zones of minor sulphides-pyrrhotite and pyrite.					
		CHERT OR QUARTZ VEINS 190.0-191.2,	3036	190.0	195.0	5.0'	Tr.
		194.4-194.7, 197.0-198.5, 199.0-199.2, 206.0-	3037	195.0	200.0	5.0'	Tr.
		211.0 with variable amounts of sulphides, probably averaging 5-8%, mainly pyrrhotite, minor pyrite and chalcopyrite. Occasional traces of sphalerite.	3038	200.0	204.5	4.5'	Tr.
		204.5-211.0, as above (200.0-204.5) lighter green colour, negligible sulphides.	3039	204.5	211.0	6.5'	Tr.
		216.0-222.1, fine grained dark grey, 2-3% pyrrhotite,					
		222.1-223.3 IRON FORMATION, 50% magnetite, 20% pyrrhotite, traces of chalcopyrite.	3040	222.1	223.3	1.2'	Tr.
		222.1-262.6, as above (216.0-222.1) lighter green colour, negligible sulphides.					

DIAMOND DRILL RECORD

PROPERTY Gallant-Pickle Crow Option

HOLE NO. 12

SHEET NO. 3

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
		260.2-262.6 IRON FORMATION, magnetite and chlorite,					
		8-10% pyrrhotite, minor chalcopyrite and pyrite	3041	260.2	262.6	2.4'	Tr.
		262.6-290.0, as above (222.1-262.6) 2" semi massive pyrite at 285.5					
290.0	307.3	ANDESITE CHERT BRECCIA? green chloritic matrix with 30-50% sub-rounded fragments up to 1" in core length. Negligible sulphides. N.B. could be highly contorted CHERT phase of iron formation?					
307.3	311.6	IRON FORMATION, magnetite, minor chert bands, 1-2% pyrite, pyrrhotite, heavier at 'out' contact.					
311.6	324.0	TUFF? GRAPHITIC? black, soft, highly carbonatized BASIC DYKE??					
324.0	324.5	IRON FORMATION, magnetite, minor pyrite, highly contorted.					
324.5	376.8	ANDESITE, medium green, fine grained, considerable carbonate in stringers.					
		326.6-327.1, IRON FORMATION, as above. occasional quartz stringers to 1/2".					
		370.3-371.1, QUARTZ VEIN, minor tourmaline	3042	370.3	371.1	0.8'	.33
376.8	402.0	IRON FORMATION, magnetite, minor chlorite, 12-15% pyrrhotite, minor chalcopyrite, pyrite. some narrow sections near massive sulphides. @ 381.6, 2" quartz vein with 1/2" near massive sulphides in walls.	3043	376.8	380.0	3.2'	.02
			3044	380.0	385.0	5.0'	Tr.
			3045	385.0	390.0	5.0'	.03
			3046	390.0	395.0	5.0'	Tr.
			3047	395.0	399.0	4.0'	Tr.
			3048	399.0	402.0	3.0'	Tr.

DIAMOND DRILL RECORD

PROPERTY Gallant-Pickle-Crow Option

HOLE NO. G-P-81-13 SHEET NO. 1

LOCATION Allegan, Ontario

MARKING: 81-13-100

STARTED May 11/81

LATITUDE 20+00 South

TESTS:

COMPLETED May 10/81

DEPARTURE 55+00 East

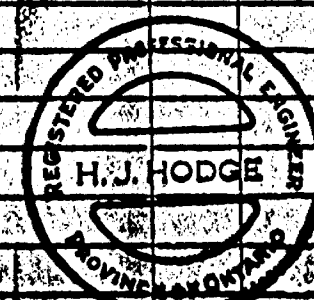
FOOTAGE	DIP	BEARING
250	50d	
504	40d	

ULTIMATE DEPTH: 504'

ELEVATION _____

LOGGED BY H.J. Hodge

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	PKET	Au Oz/T
From	To						
0	102.0	CASING					
102.0	130.5	ANDESITE-FAULT ZONE. Pea-green, highly sheared fractured and leached, shearing at approximately 60d to C.A.					
		115.-130.5, medium green, moderately sheared, numerous carbonate veinlets.					
		118.5-120.0, chert? section, 50% pyrite, minor pyrrhotite, minor secondary? quartz, minor magnetite.	3049	118.5	120.0	1.5'	Tr.
130.5	134.3	IRON FORMATION, banded magnetite, minor chlorite, chert, banding 45d to C.A.	3050	130.5	134.3	3.8'	Tr.
134.3	157.5	ANDESITE, medium green colour, massive to slightly banded, scattered carbonate filled fractures.					
157.5	160.0	IRON FORMATION, magnetite, minor chlorite, very minor sulphides.					
160.0	223.0	ANDESITE, as before.					
223.0	228.0	IRON FORMATION, magnetite, minor cherty chlorite.					
228.0	229.0	ANDESITE, as above.					
229.0	229.6	IRON FORMATION, as above.					



DIAMOND DRILL RECORD

PROPERTY _____

 HOLE NO. 12

 SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Gr/T Au
229.6	234.5	TUFF? black, soft graphite, medium grained, changes to greenish andesite at 232.0					
234.5	243.0	IRON FORMATION, magnetite, 5-8% pyrrhotite, minor pyrite, minor chlorite.					
243.0	297.0	ANDESITE, as above.					
297.0	301.0	IRON FORMATION, as above.					
301.0	306.0	ANDESITE, as above.					
306.0	316.0	IRON FORMATION, as above.					
316.0	323.6	ANDESITE as above.					
323.6	340.1	IRON FORMATION, as above, banding 65d to C.A. 338.8-340.1, 50% pyrrhotite, less than 1% chalcopyrite	3051	338.8	340.1	1.3'	Tr.
340.1	358.0	ANDESITE, as above. 343.2-345.5, 50% pyrrhotite, minor chalcopyrite 354.0-388.0, 40-50% pyrrhotite, minor chalcopyrite	3052	343.2	345.5	2.3'	Tr.
		scattered quartz stringers to 1/4". Possible V.G.	3053	354.0	359.0	5.0'	Tr.
358.0	380.6	IRON FORMATION, banded magnetite, minor chert & chlorite, 15-20% pyrrhotite. <u>QUARTZ VEINS</u> , ir- regular quartz with 50% pyrrhotite, minor chalco- pyrite and pyrite at <u>374.5-375.0</u> , <u>377.3-378.5</u> <u>379.0-380.6</u> .	3054	359.0	364.0	5.0'	Tr.
			3055	364.0	369.0	5.0'	Tr.
			3056	369.0	373.5	4.5'	Tr.
			3057	373.5	378.5	5.0'	.94
380.6	504.0	ANDESITE, medium green, moderately banded, Num- erous quartz stringers and irregular non-banded veins (probably 25-30% grade) Negligible sulph- ides.	3058	378.5	380.6	2.1'	.04
			3059	380.6	385.6	5.0'	Tr.
			3060	385.6	390.6	5.0'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. G-P-81-14 SHEET NO. 1

LOCATION Allegany River
 LATITUDE 20+00 South
 DEPARTURE 57+00 East
 ELEVATION _____

BEARING Grid N DIP 50d

TESTS:

FOOTAGE	DIP	BEARING
250	44d	
500	42d	

STARTED May 11/81
 COMPLETED May 12/81
 ULTIMATE DEPTH 506'
 LOGGED BY H.J. Hodge

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0.0	39.0	CASING					
39.0	122.5	ANDESITE, medium green, fine grained, massive to slightly banded, 5-10% tourmaline in irregular veinlets with or without carbonate. Occasional quartz veinlets with carbonate, and tourmaline, as at 38.8-38.9, 41.4-41.6					
			3067	38.4	39.4	1.0'	Tr.
			3068	42.1	42.6	0.5'	Tr.
		47.9-49.4, IRON FORMATION, well banded magnetite, chert, and chlorite, minor pyrite, 1/2" massive pyrite at 48.2'					
			3069	47.9	49.4	1.5'	Tr.
		51.0-51.6, QUARTZ VEIN, 5% tourmaline					
			3070	51.0	51.6	0.6'	Tr.
		68.1-68.6, CHERT? QUARTZ? grey colour, minor sulphides-pyrrhotite.					
			3071	68.1	69.4	1.3'	Tr.
		69.0-69.4 30% carbonate in numerous irregular veinlets, 20% pyrrhotite, minor pyrite, chalcoppyrite, 5% tourmaline					
		69.4-76.9, scattered hazy fragments, suggests breccia.					
		76.9-77.2, IRON FORMATION, magnetite and chlorite banding 65d to C.A.					



DIAMOND DRILL RECORD

PROPERTY Gallant-Pickle Crow Option HOLE NO. 14 SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		77.2-122.5 as above (69.4-76.9), scattered chert sections. scattered minor sulphides.					
122.5	126.4	IRON FORMATION, banded magnetite, chert and chlorite at 60d to C.A.					
		122.5-124.3, 50% sulphides-pyrrhotite 10% pyrite, less than 1% chalcopyrite	3072	122.5	126.4	3.9'	.01
		124.3-126.4, 10% sulphides, as above.					
126.4	149.5	ANDESITE (TUFF?) fine grained, medium green. highly carbonatized with 3-5% white carbonate flecks. well handed at 60d to C.A.					
		140.0-141.3, IRON FORMATION, mainly magnetite minor chert, chlorite. Very minor pyrrhotite.					
		146.2, IRON FORMATION, as above.					
149.5	152.5	IRON FORMATION, magnetite, chlorite					
152.5	162.5	ANDESITE TUFF? as above.					
162.5	169.9	IRON FORMATION, as above.					
169.9	225.0	ANDESITE, as above.					
		173.8-174.2, QUARTZ VEIN	3073	173.7	174.3	0.6'	Tr.
		197.0-197.8, IRON FORMATION					
		201.5-202.0 IRON FORMATION					
225.0	234.0	IRON FORMATION, magnetite, minor chert, well banded at 70-75d to C.A. 5-8% sulphides with narrow sections up to 50%-pyrrhotite	3074	225.0	230.0	5.0'	Tr.
			3075	230.0	234.0	4.0'	Tr.

DIAMOND DRILL RECORD

PROPERTY Callant-Rickle Crow Outcrop HOLE NO. 14 SHEET NO. 3

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
234.0	388.3	ANDESITE? DACITE? pale green colour, fine grained, massive, slightly sericitic, probably bleached (silicified?), moderately fractured with grey carbonate along fractures. Scattered narrow sections of pyrite.					
		279.3-379.9, INTERMEDIATE DYKE, fine grained, medium to dark grey, pale grey carbonate flecks,					
		279.9-297.0, andesite as above (234.0-279.3) gradual change to medium green colour.					
		297.0-302.0, gradual change to moderately banded, moderately chloritic, heavily fractured with numerous carbonate veinlets, banding 60d to C.A.					
		302.0-388.3, as above (279.0-297.0)					
		333.-333.4, 50 % carbonate, 10% pyrite, 1" quartz carbonate stringer at 333.1	3076	333.0	333.4	0.4'	Tr.
		361.2-361.5, same as above	3077	361.2	361.5	0.3'	Tr.
			3085	386.0	388.3	2.3'	Tr.
388.3	390.3	QUARTZ VEIN, white, massive, minor pyrite near contacts.	3078	388.3	390.3	2.0'	.03
			3079	390.3	395.3	5.0'	.06
390.3	434.1	ANDESITE, silicified to pale grey-green colour. moderately banded at 75d to C.A.	3080	395.3	398.0	2.7'	.23
			3081	398.0	401.0	3.0'	Tr.
		QUARTZ VEINS, 391.1-391.4, 391.6-391.7, 392.6-392.8, irregular, quartz-carbonate, 394.2-394.6					
		QUARTZ VEINS, banded with silicate bands plus minor pyrite, 396.6-396.9 (V.G.?) 397.6-397.9					

DIAMOND DRILL RECORD

 PROPERTY Callanta-Buckle, Crow, Ontario

 HOLE NO. 14

 SHEET NO. 4

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
		1/2" quartz and carbonate vein with minor pyrite at 399.4	3082	432.0	434.1	2.1'	Tr.
434.1	439.9	QUARTZ VEIN, white quartz, banded black tourmaline, and green silicate (sericite?), minor pyrite pyrrhotite, traces of chalcopyrite	3083	434.1	439.9	5.8'	Tr.
		435.0-455.4 andesite. 1" quartz with tourmaline at 449.3	3084	439.9	444.0	4.1'	Tr.
439.9	506.0	ANDESITE, banded as before. 453.0-457.0, massive, sharp contact @ 45d to G.A. dark greyish green. 457.0-472.7, banded as before; scattered carbonate-quartz stringers, minor sulphides. 472.7-473.0, irregular quartz with tourmaline. 1" quartz, minor tourmaline-pyrite at 477.5 497.5-506.0, massive, medium grained Dyke?					
506.0		END OF HOLE					

DIAMOND DRILL RECORD

PROPERTY Albany - Pickle Creek Mine HOLE NO. G-P-81-15 SHEET NO. 1

LOCATION Albany - Pickle Creek Mine

BEARING 345d DIP 50d

STARTED May 13/81

LATITUDE 20+00 South

TESTS:

COMPLETED May 14/81

DEPARTURE 58+00 East

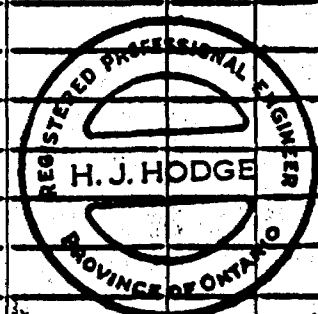
FOOTAGE	DIP	BEARING
250	45d	
506	39d	

ULTIMATE DEPTH 506'

ELEVATION _____

LOGGED BY H.J. Hodge

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0.0	46.0	CASING					
46.0	100.5	ANDESITE, medium green, fine grained, moderately chloritic, numerous veins, stringers, and patches of light grey carbonate and black tourmaline,					
100.5	103.0	IRON FORMATION, finely banded magnetite and pale grey chert, minor white carbonate, banding 55d-60d to C.A., highly contorted in sections.					
103.0	114.7	ANDESITE, as above, moderately sheared and fractured. shearing at 70d to C.A.					
114.7	117.2	IRON FORMATION, as above.					
		115.1-115.7, 40-50% pyrrhotite, minor pyrite and chalcopyrite.	3087	115.1	115.7	0.6'	Tr.
117.2	123.2	ANDESITE, as above.					
123.2	124.7	IRON FORMATION, as above.					
124.7	134.5	ANDESITE, as above.					
134.5	154.7	IRON FORMATION, as above, 30% pyrrhotite, 2-3% pyrite, minor chalcopyrite	3088	134.5	139.5	5.0'	Tr.
		140.0-154.7, 3-5% pyrrhotite	3089	139.5	144.5	5.0'	Tr.



DIAMOND DRILL RECORD

PROPERTY Gallant-Pickle Crow Option

HOLE NO. 15

SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
154.7	168.4	ANDESITE BRECCIA? medium green, fine grained, hazy' light green fragments, mildly sheared, minor quartz and carbonate stringers.					
168.4	199.4	ANDESITE, mottled appearance, with fine white carbonate flecks, massive.					
	172.9-174.0	highly contorted quartz vein	3090	172.9	174.0	1.1	Tr.
	174.0-182.6	becomes slightly banded with numer- ous carbonate veinlets. (medium green)					
	182.6-183.7	4" quartz vein, milky white quartz massive.	3091	182.6	183.7	1.1	Tr.
	183.7-186.0	quartz veinlets	3092	183.7	186.0	2.3	Tr.
	186.0-202	above (174.0-182.6)					
	202-299.2	dark green, , massive.					
	299.2-299.4	15% pyrrhotite with minor pyrite and quartz blebs.					
199.4	217.8	IRON FORMATION, interbanded magnetite and chert 213.7-215.8, badly broken.					
217.8	236.0	ANDESITE, medium green, massive, 217.8-222.6, 3-5% pyrrhotite, minor pyrite quartz veins "to 4" wide	3093	217.8	222.6	4.8	Tr.
	222.6-236.0	medium green, massive, veinlets of carbonate and small quartz stringers.					
236.0	368.7	ANDESITE BRECCIA? medium green, slightly bleached fine grained, hazy light green fragments, silicif- ied throughout minor carbonate stringers and					

DIAMOND DRILL RECORD

PROPERTY

Gallant-Pickle Crow Opt. Co.

HOLE NO. 15

DEPTH NO. 3

DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
	quartz veinlets.					
	267.1-269.3, Quartz vein in andesite less than 1%					
	pyrrhotite, minor pyrite, minor tourmaline in quartz?	3094	267.1	269.3	2.2'	Tr.
	269.2-276. as above (236.0-368.7)					
	276.0-278.0, as above, moderately fractured and well contorted.					
	279.0, as above (236.0-368.7)					
	323.7-323.9, quartz veinlet, 3-5% pyrrhotite minor chalcopryite, pyrite.					
	323.9-347.9 andesite breccia as above.					
	347.4-347.9, 5-10% pyrrhotite, minor pyrite and chalcopryite.					
	347.9-368.7 fragments are less discernible, well fractured.					
368.7	506.0 ANDESITE, medium green, fine grained, moderately fractured.					
	385.3-385.9, Quartz vein, 1-3% pyrrhotite, minor chalcopryite.	3095	385.3	385.9	0.6'	Tr.
	385.9-411.6 as above (368.7-385.3)					
	411.6-414.0, Quartz vein, less than 1% pyrrhotite minor pyrite and chalcopryite.	3096	411.6	414.0	2.4'	Tr.
	414.0-433.0, andesite as above. (368.7-385.3)					
	433.0-439.7, andesite is well fractured, well contorted quartz veinlets appear.					

DIAMOND DRILL RECORD

PROPERTY

Gallant-Pickle Crow Option

HOLE NO. 16

SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
		71.2-75.0, weak iron formation, 3-5% magnetite, minor quartz 72.0-73.8 with 3-5% pyrrhotite and minor pyrite, contact at 60-65d to C.A.	3100	71.2	75.0	3.8'	Tr.
		75.0-77.9 as above (42.7-53.0), with sections of green chlorite alteration. some shearing. 50-55d to C.A.					
		77.9-78.6, Quartz vein, milky white to medium green, 10-15% pyrrhotite.	3101	77.9	78.6	0.7	.01
		78.6-85.9, andesite as above (42.7-53.0)					
		85.9-87.2, Quartz vein, interbanded, chlorite, 3-5% pyrrhotite and pyrite	3102	85.9	87.2	1.3'	Tr.
		87.2-93.3, well bleached, almost grey (light green) fine grain, slightly fractured, minor carbonate veinlets.					
		93.3-94.0 weak iron formation, chert and magnetite bands, well contorted. some chlorite alteration					
		some carbonate veinlets.					
		94.0-114.1, as above (87.2-93.3)					
109.1	114.0	IRON FORMATION					
		114.1-113.8 interbedded magnetite and chert, 80% chert banded 65d-70d' to C.A.					
		113.8-116.1 andesite, medium green, massive to slightly banded.					
114.0	116.1	ANDESITE					

DIAMOND DRILL RECORD

PROPERTY

Callant-Pickle Crow Center

HOLE NO. 16

SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T
							All
116.1	116.4	IRON FORMATION as above					
116.4	117.5	ANDESITE, as above (113.8-116.1) well fractured and broken, vuggy sections filled with iron oxide.					
117.5	126.2	IRON FORMATION 117.5-120.6, interbedded magnetite and chert banded 40-45d to C.A. 40%-45% pyrite minor pyrrhotite	3103	117.5	120.6	3.1'	Tr.
		120.6-126.2, interbedded magnetite, chert 65-70% chert scattered sulphides, less than 1%					
126.2	145.7	ANDESITE, fine grained, light green, slightly banded.					
		137.0-145.7, as above, becomes moderately fractured and contorted, highly siliceous with carbonate and quartz stringers.					
145.7	146.7	IRON FORMATION interbedded chert & magnetite, 50% chert, 20% pyrrhotite and pyrite	3104	145.7	146.7	1.0'	.01
146.7	172.5	ANDESITE, medium green, fine grained, slightly banded, flecks of carbonate give mottled appearance, slightly fractured with carbonate stringers.					
		157.0-158.4 Quartz veins, milky white (Quartz intruding Dyke material?)	3105	157.0	158.4	1.4'	Tr.
		158.4-172.5, as above. banded 70d - 75d to C.A. possible breccia.					
172.5	179.4	IRON FORMATION, interbanded magnetite and chert 50% chert, scattered bands of sulphides, pyrite, minor pyrrhotite, occasional bands of chlorite					

DIAMOND DRILL RECORD

PROPERTY Gallant-Pickle Crow Option

HOLE NO. 16

SHEET NO. 4

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
		alteration. banded 70d-75d to C.A.					
179.4	196.8	ANDESITE BRECCIA? medium green colour with hazy light green? fragments, massive.					
		180.7-181.3, Iron Formation, interbedded magnetite and chert, scattered pyrite and pyrrhotite (less than 1%), occasional bands of chlorite alteration.					
		181.3-191.3, light green to light grey, massive moderately fractured, with carbonate.					
		191.3-196.8, medium green to dark green, fine grained, white flecks give mottled appearance.					
196.8	212.6	IRON FORMATION, interbanded magnetite and chert, banding is well contorted.					
		196.8-201.8, 1-3% pyrrhotite, banded 60-65d to C.A.	3106	196.8	201.8	5.0'	Tr.
		201.8-209.2 iron formation as above					
		209.2-212.6 iron formation, as above, 3-5% pyrrhotite and minor chalcopyrite. banding 70-75d to C.A.	3107	209.2	212.6	3.4'	Tr.
212.6	260.3	ANDESITE, medium green colour, massive to slightly banded at 70-80d to C.A. slightly fractured with carbonate and quartz stringers					
		243.6-244.9 Quartz vein, milky white	3108	243.6	244.9	1.3'	Tr.
		244.9-248.9, numerous quartz stringers 1/4"-2" minor pyrite and disseminated	3109	244.9	248.9	4.0'	Tr.

DIAMOND DRILL RECORD

PROPERTY Gallant-Bickle Crow Option

HOLE NO. 16

SHEET NO. 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		248.9-249.7, as above (212.6-243.6)					
		249.7-251.6, Two quartz veins and scattered quartz stringers.	3110	249.7	251.6	1.9'	Tr.
		251.6-257.6 as above (breccia?) (212.6-243.6)					
		257.6-259.7, Quartz vein, milky white, minor tourmaline stringers?	3111	257.6	259.7	2.1'	Tr.
		259.7-260.3, andesite, massive to slightly banded, medium green colour, well fractured and broken with carbonate and quartz stringers.					
260.3	298.2	ANDESITE BRECCIA? medium green colour, matrix with hazy light green fragments, fine grained, slightly banded at 80-85d to C.A. slightly fractured with carbonate stringers.					
		269.9-270.1 Quartz with 3-5% pyrite					
		270.1-272.2, as above.					
		272.2-273.2, bluish colour quartz vein, 4" 1-3% pyrrhotite, 2nd vein 2", 3-5% pyrrhotite	3112	272.2	273.2	1.0'	Tr.
		273.2-298.2, as above, minor quartz, blebs contorted veinlets.					
298.2	298.6	IRON FORMATION, primarily magnetite, occasional bands of chlorite, banding well contorted.					
298.6	606.0	ANDESITE BRECCIA? as above (260.3-269.9)					
		324.9-325.1 massive pyrrhotite, minor chalcopyrite in small quartz veinlets. Minor chlorite.					

DIAMOND DRILL RECORD

PROPERTY Goldfield 2322 Crow Opener HOLE NO. 16 SHEET NO. 6

NO.	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
	325.1-334.2, as above (200.3-298.2) but moderately fractured with quartz and carbonate stringers.					
	334.2-335.3 milky white quartz vein with minor tourmaline	3113	334.2	335.3	1.1'	Tr.
	335.3-336.7 as above (260.3-298.2)					
	336.7-338.1, milky white quartz veins on section of quartz at 337.6, 20-25% pyrrhotite minor pyrite and chalcopyrite.	3114	336.7	338.1	1.4	Tr.
	338.1-348.6 as above (260.3-298.2)					
	348.6-353.0 Quartz veins and contorted quartz stringers	3122	348.6	353.0	4.4'	Tr.
	353.0-357.1, as above (260.3-298.2) numerous quartz blebs appear, slightly banded at 85-90d to C.A.					
	357.1-358.2 quartz vein material, milky white, minor tourmaline stringers	3115	357.1	358.2	1.1'	Tr.
	358.2-385.2 andesite breccia as above (353.0-357.1)					
	385.4-386.4 quartz vein material well contorted milky white to bluish colour.	3116	385.4	386.4	1.0'	Tr.
	386.4-407.7, as above. (353.0-357.1)					
	407.7-407.9, milky white, contorted quartz vein, 1-3% pyrrhotite, minor pyrite and chalcopyrite					
	407.9-425.9, as above (353.0-357.1)					
	425.9-430.7, Quartz vein (15-20% quartz), 3-5% pyrrhotite, minor pyrite & chalcopyrite well con-					

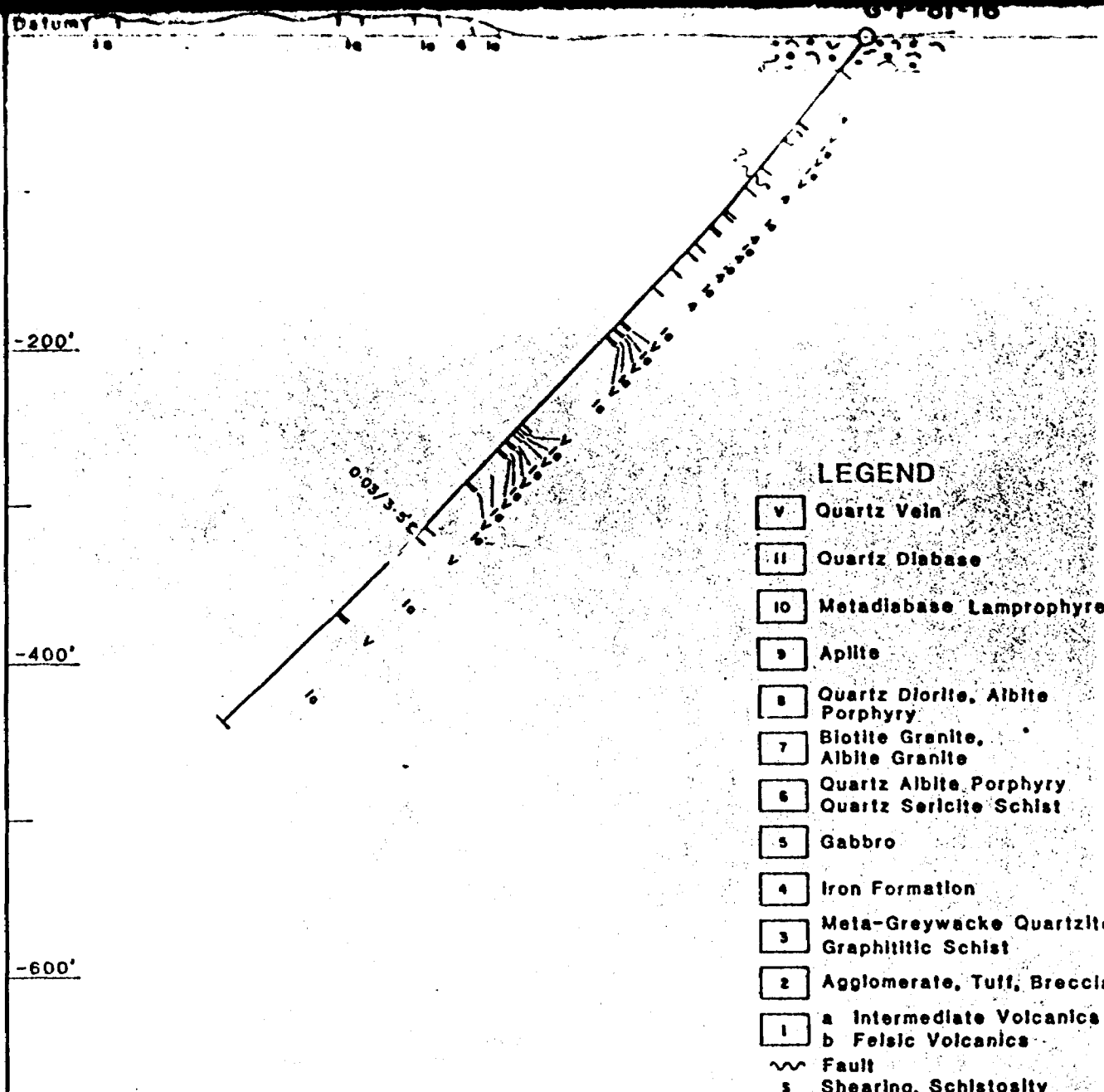
DIAMOND DRILL RECORD

PROPERTY Callant-Pickle Crow Option

HOLE NO. 36

SHEET NO. 7

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
	torted banding generally 80-90d to C.A.	3117	425.9	430.7	4.8'	Tr.
	430.7-434.2, vein material same as above but 1-3%					
	sulphide (425.9-430.7).	3118	430.7	434.2	3.5'	.03
	434.2-476.1 as above (353.0-357.1)					
	476.1-476.5, contorted quartz, carbonate zone,					
	25-30% pyrrhotite, minor pyrite and chalcopyrite.					
	476.5-496.0 as above (260.3-298.2)					
	496.0-496.9 contorted quartz stringer altered					
	to brownish colour, tourmaline stringers.	3119	496.0	496.9	0.9'	Tr.
	496.9-502.4 as above (260.3-298.2).					
	502.4-503.1, Quartz vein, milky white minor					
	pyrite and pyrrhotite (less than 1%)	3120	502.4	503.1	0.7'	Tr.
	503.1-531.1 as above (260.3-298.2) highly fract-					
	ured with quartz and carbonate stringers					
	531.1-533.0, 3" blue quartz vein and highly					
	contorted quartz stringers 15-20% pyrrhotite,	3121	531.1	533.0	1.9'	Tr.
	minor pyrite					
	533.0-606.0, as above (260.3-298.2) sections					
	highly fractured occasional small quartz veins					
	½" to 3", breccia takes on "speckled" appearance					
	in places from "peppering" of quartz fragments					
	(coarser grain size?)					
606.0	END OF HOLE					



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry
Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite
Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- c Carbonate
- ch Chlorite
- si Silicific

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-16

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 0-8-81-17 SHEET NO. 1

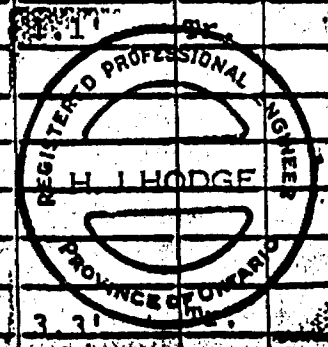
LOCATION Albany
 LATITUDE 18+50 South
 DEPARTURE 58+00 East
 ELEVATION _____

MARKING _____

TESTS:		
FOOTAGE	DVP	BEARING
400	40d	
800	35d	

STARTED May 17/81
 COMPLETED June 5/81
 ULTIMATE DEPTH 806'
 LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FRET	Au Oz/T
0	34.0	CASING					
34.0	164.0	ANDESITE BRECCIA? medium green colour with hazy light green fragments, massive, moderately fractured with quartz carbonate stringers, occasional beads of 1-3% pyrite and minor chalcopyrite, occasional quartz stringers.					
		132.4-136.8, as above but minor sections of chlorite alteration					
		136.8-137.5, carbonate and quartz vein, less than 1% pyrrhotite, minor chalcopyrite.	3123	136.8	137.5	0.7'	Tr.
		137.5-153.1, as above (34.0-132.4)					
		153.1-154.2, quartz stringers, less than 1% pyrite and arsenopyrite?	3124	153.1	154.2	1'	
164.0	167.3	IRON FORMATION, alternate bands of magnetite and chert. 80% chert. Minor quartz stringers and quartz veins, 1-3% pyrrhotite, minor pyrite, minor tourmaline stringers, minor sections of chlorite alteration, well contorted & fractured	3125	164.0	167.3	3.3'	



DIAMOND DRILL RECORD

PROPERTY

Callant-Blocke Snow Optics

HOLE NO. 17

SHEET NO. 2

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	THICK	Oz/T Au
	where there is tourmaline, banding 50-55d to C.A.					
167.3 - 257.7	ANDESITE BRECCIA?					
	167.3-169.5, medium green colour, hazy light green fragments, massive, moderately fractured with carbonate and tourmaline stringers, a moderately contorted.					
	169.5-172.7, as above (34.0-164.0)					
	172.7-173.4, Quartz vein, fractured and contorted with tourmaline, minor splotches of pyrite.	3126	172.7	173.4	0.7'	Tr.
	173.4-200.8, as above (34.0-164.0)					
	200.8-203.4, milky, white quartz vein less than 1% pyrite	3127	200.8	203.4	2.6'	Tr.
	203.4-204.0, as above (34.0-164.0)					
	204.0-208.9, well fractured with quartz stringers and one 3½" quartz vein, contorted zones of quartz-carbonate with tourmaline stringers and irregular fragments of host rock in vein material. less than 1% pyrite. banded 85-90d to C.A.	3128	204.0	208.8	4.8	Tr.
	208.8-212.9, same as above (204.0-208.8)	3129	208.8	212.9	4.1'	Tr.
	212.9-217.9, same as above with minor pink alteration in quartz	3130	212.9	217.9	5.0'	Tr.
	217.9-221.0, same as above (204.0-208.8)	3131	217.9	221.0	3.1'	Tr.
	221.0-242.1, andesite breccia; medium green colour, massive, moderately fractured with contorted tourmaline and carbonate stringers, slightly banded					

DIAMOND DRILL RECORD

PROPERTY _____

Callahan-Edwards Crew Co., Inc.

HOLE NO. 17

DEPTH NO. 3

				SAMPLE NO.	FROM	TO	DEPTH	OZ/T	AU
		at 65-70d to C.A.							
		242.1-257.7, massive, medium green colour, slightly fractured with carbonate stringers, banded 70-75d to C.A.							
257.7	258.7	IRON FORMATION, interbanded magnetite and chert chert-50%, less than 1% pyrrhotite and pyrite. banded at 85-90d to C.A.							
258.7	261.0	ANDESITE BRECCIA? medium green colour, matrix with hazy light green fragments, fine grained to massive, minor fractures with carbonate stringers banded 70-75d to C.A.							
261.0	269.4	IRON FORMATION, interbanded magnetite and chert 261.0-266.0, 15%-20% pyrrhotite, pyrite and minor chalcopyrite, 5-10% magnetite, occasional bands of chlorite alteration.		3132	261.0	266.0	5.0'	.03	
		266.0-269.4, interbanded magnetite & chert, banded at 75-80d to C.A., 5-10% magnetite.		3133	266.0	269.4	3.4'	.01	
269.4	276.2	ANDESITE BRECCIA? medium green colour, massive, moderately fractured with carbonate stringers, flecked appearance, from "quartz eyes"? 273.5-276.2, andesite as above but flecked appearance is less pronounced, several quartz veinlets.		3134	273.5	276.2	2.7'	Tr.	
276.2	281.6	IRON FORMATION							

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 17

SHEET NO. 4

		DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
		276.2-277.5, well contorted bands of magnetite, chert, and chlorite alteration, 20-25% pyrrhotite pyrite and chalcopyrite	3135	276.2	277.5	1.3'	.01
		277.5-281.6, iron formation, interbanded magnetite and chert. 30 % pyrite. banded 85-90d to C.A. 5% magnetite					
		281.6-286.6, as above but 10-15% pyrite	3136	281.6	286.6	5.0'	Tr.
281.6	340.5	ANDESITE BRECCIA? medium green colour, fine grained, slightly fractured, with quartz and carbonate stringers, less than 1% pyrite.					
		296.7-301., Dyke material? medium green colour, well flecked with white quartz phenocrysts, occasional white quartz veinlets.					
		301.0-317.0, as above (281.6-296.7)					
		317.0-318.1, iron formation, as above (277.5-281.6)					
		318.1-321.0, as above (281.6-296.7)					
		321.0-321.4, iron formation, as above (277.5-281.6)					
		321.4-340.5, medium green, grading to light green, slightly fractured with quartz and carbonate, flecked appearance in places.					
340.5	347.0	IRON FORMATION					
		340.5-341.3, slightly contorted bands of magnetite, chert and bands of chlorite alteration, quartz veinlets, 10-15% pyrrhotite & minor pyrite	3137	340.5	341.3	0.8'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____

Location - Block, Crown, etc. _____

HOLE NO. 17

SHEET NO. 5

LN	TO	DESCRIPTION	SAMPLE NO	FROM	TO	PTH'	Oz/T Au
		341.3-347.0, as above (277.5-281.6) banded at 65-70d to C.A.					
347.0	398.7	ANDESITE BRECCIA?, light green colour, fine grained, areas of chlorite alteration with quartz stringers, 10-15% pyrrhotite and minor pyrite.					
		358.8-359.8, quartz and carbonate stringers, less than 1% pyrite.	3142	358.8	359.8	1.0'	0.005
		359.8-396.0, as above, but lacking chlorite alteration, moderately to well fractured with carbonate stringers, occasional 1" quartz veinlets. fragments in breccia band, discernable?					
		396.0-398.7, chlorite alteration, well fractured, banding is 65-75d to C.A., carbonate and quartz stringers, minor tourmaline, less than 1% pyrite	3143	396.0	398.7	2.7'	0.005
398.7	491.2	ANDESITE, medium green colour, fine grained, massive, slightly fractured with carbonate stringers, minor quartz veinlets.					
		401.5-402.5, as above but 3-5% pyrrhotite, minor chalcopyrite.					
		402.5-452.2, andesite as above (398.7-401.5)					
		452.2-454.3, occasional contorted blue quartz veins with 20-25% pyrrhotite, pyrite, and minor chalcopyrite. minor tourmaline	3144	452.2	454.3	2.1'	Tr.
		454.2-455.7, as above					

DIAMOND DRILL RECORD

PROPERTY Gallant-Pickle Crow Option

HOLE NO. 17

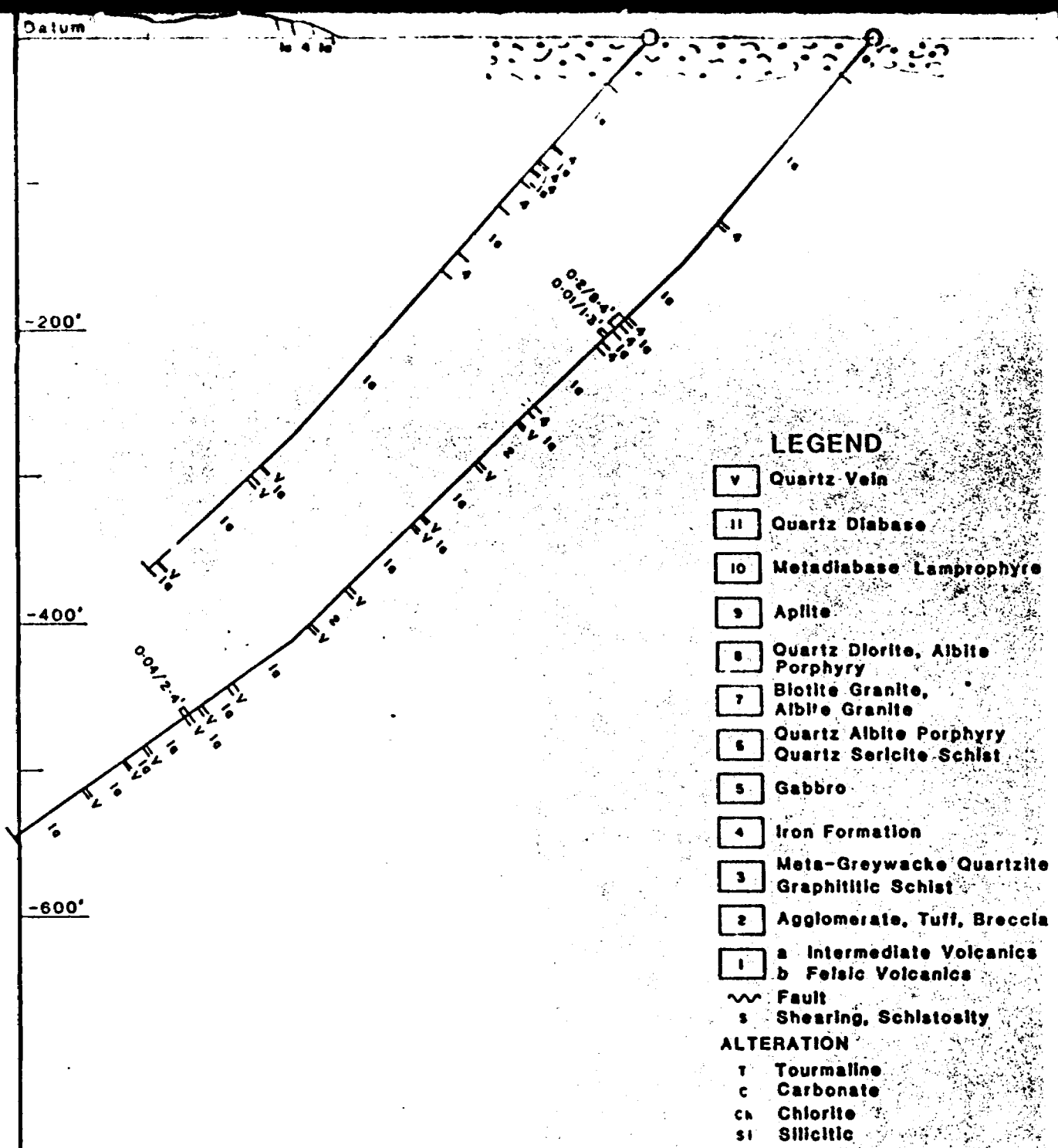
SHEET NO. 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
		455.7-459.3, (highly silicified?) 15-20% pyrrhotite, pyrite, minor chalcopyrite, with tourmaline stringers.	3145	455.7	459.3	3.6'	Tr.
		459.3-461.3, as above, moderately fractured with well contorted carbonate stringers, 10-15% pyrrhotite with minor pyrite. (398.7-401.5).					
		461.3-462.7, highly silicified, 15-20% pyrrhotite, pyrite, minor chalcopyrite, with tourmaline stringers.	3146	461.3	462.7	1.4'	Tr.
		462.7-491.2 as above (398.7-401.5), fine grained.					
491.2	576.5	ANDESITE, BRECCIA? medium green colour, fine grained matrix, hazy light green fragments, slightly fractured with minor quartz and carbonate veinlets, quartz veinlets contain 10-15% pyrrhotite, minor pyrite, minor chalcopyrite and tourmaline.					
		520.8-523.8, quartz-carbonate and tourmaline stringers with one 2" quartz veinlet with pinkish colour, 1-3% pyrrhotite, pyrite, minor chalcopyrite, chlorite alteration banded 70-80d to C.A.	3147	520.8	523.8	3.0'	Tr.
		523.8-558.2, as above? (491.2-520.8)					
		558.2-561.6, numerous quartz-carbonate and tourmaline shtringers and veinlets, 3-5% pyrrhotite pyrite, minor chalcopyrite.	3148	558.2	561.6	3.4'	.005
		561.6-576.5					

DIAMOND DRILL RECORD

PROPERTY Allant-Bickle New Option HOLE NO. 17 SHEET NO. 7

DEPTH	LOG	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
576.5	806.0	ANDESITE, medium green colour, fine grained, moderately fractured and contorted with carbonate and quartz stringers. minor areas of brecciation?					
		627.3-630.8, numerous quartz and carbonate veinlets, well fractured and contorted, 3-5% pyrite blebs throughout, minor tourmaline, chlorite alteration.	3149	627.3	630.8	3.5'	0.005
		630.8-655.6, as above (576.5-627.3)					
		655.6-656.1, quartz stringers, white colour with carbonate, less than 1% pyrrhotite, minor pyrite and chalcopyrite, minor tourmaline	3150	655.6	656.1	0.5'	Tr.
		656.1-663.1, as above (576.5-627.3) splotches more numerous quartz stringers, occasional pyrrhotite and pyrite:					
		663.1-665.5 minor quartz and tourmaline stringers with 5-10% pyrrhotite, pyrite, minor chalcopyrite and arsenopyrite.	3151	663.1	665.5	2.4'	.04
		665.5-698.9, as above (656.1-663.1)					
		698.9-701.1 quartz-carbonate stringers, 1-3% pyrrhotite and pyrite	3152	698.9	701.1	2.2'	Tr.
		701.1-215.8, medium green colour, fine grained, moderately fractured, with numerous quartz and carbonate stringers, less than 1% pyrite, minor chalcopyrite blebs throughout. minor localized sections of brecciation?					



SULPHIDES

Py	Pyrite
Po	Pyrrhotite
Cp	Chalcopyrite
Sp	Sphalerite
Ga	Galena
As	Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-15,17

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.		Map No.

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. G-2-91-1B SHEET NO. 1

LOCATION Alberly

HEARING 56+00 E

STARTED June 5/81

LATITUDE 18+50 South

TESTS:

COMPLETED June 7/81

DEPARTURE 56+00 E

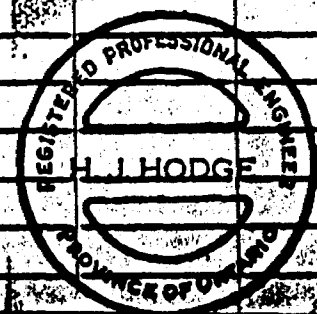
FOOTAGE	DIP	BEARING
400	43d	
786	35d	

ULTIMATE DEPTH 786.0'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	22.0	CASING					
22.0	291.0	ANDESITE, medium green colour, massive, moderately fractured with quartz and carbonate stringers banded 55 to 60d to C.A. Minor tourmaline? Occasional bands of chloritic alteration, less than 1% pyrite in places.					
		43.2-44.1 milky white quartz veinlet with magnetite and chlorite alteration, well fractured and contorted carbonate stringers, less than 1% pyrite.	3155	43.2	44.1	0.9'	Tr.
		44.1-52.3, as above (22.0-43.2)					
		52.3-53.1, vuggy section, carbonate stringers, weathered out and iron stained, slightly broken.					
		53.1-85.0, as above with occasional 2" to 1/2" bands of magnetite/carbonate (stringers.)					
		85.0-86.5, unusual bright green fragments? / alteration in light green andesite, chlorite? minor tourmaline throughout, and slightly fractured with carbonate.					



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. _____

DEPTH NO. _____

2

DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
80.5-96.7,	as above (22.0-43.2)					
96.7-98.6,	light coloured as above (85.0-86.5)					
98.6-126.6	as above (53.1-85.0)					
126.6-131.0,	medium green colour, massive, well fractured with carbonate and minor quartz stringers, moderately contorted in places, less than 1% pyrite, minor tourmaline, bands of chloritic alteration.					
131.0-144.9,	andesite as above (22.0-43.2)					
144.9-145.9,	milky white quartz stringers, tourmaline, less than 1% pyrite, minor chalcopyrite.	3156	144.9	145.9	1.0'	Tr.
145.9-158.9,	medium green colour, well fractured with carbonate stringers, moderately contorted, occasional quartz stringers minor tourmaline and chlorite alteration.					
158.9-167.2,	andesite as above (22.0-43.2)					
167.2-167.7,	milky white quartz vein, with tourmaline, minor carbonate and chlorite alteration.	3157	167.2	167.7	0.5'	Tr.
167.7-178.3,	andesite as above (22.0-43.2)					
178.3-182.8,	dark green colour, massive, well banded and fractured with carbonate and tourmaline stringers, speckled appearance, occasional quartz veinlet, minor chlorite alteration, banding at 45-50d to C.A.					

DIAMOND DRILL RECORD

PROPERTY

Gallant-Pickle-Crow Opener

HOLE NO. 18

SHOOTS NO. 3

DESCRIPTION	SAMPLE NO	FROM	TO	THWT	Oz/T Au
182.8-209.6, andesite as above (22.0-43.2)					
increased occurrence of tourmaline and quartz stringers.					
209.6-210.5, 3" milky white quartz vein, minor carbonate and tourmaline stringers with chlorite alteration.	3158	209.6	210.5	0.9'	Tr.
210.5-214.6, as above (22.0-43.2)					
214.6-216.0, quartz veinlets, tourmaline and carbonate	3159	214.6	216.0	1.4'	Tr.
216.0-218.8, medium green colour, massive, well banded with carbonate stringers, 55d-60d to C.A.					
218.8-228.9, andesite, medium to dark green colour, fine grained flecked appearance due to carbonate blebs, moderately fractured with tourmaline and carbonate stringers, slightly contorted.					
228.9-249.0, medium green colour, fine grained moderately fractured, with tourmaline and carbonate stringers.					
249.0-251.6, medium green, massive, moderately fractured, banded with carbonate stringers, at 75-80d to C.A.					
251.6-258.5, same as above (249.0-251.6) but with shear zones, well broken, signs of moderate weathering.					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 18

SHEET NO. 4

			SAMPLE NO.	FROM	TO	DEPTH	OZ/T Au
		258.5-266.2, as above (249.0-251.6)					
		266.2-266.7, quartz (chert?) blob with magnetite					
		1-3% pyrite	3160	266.2	266.7	0.5'	Tr.
		266.7-291.0, as above (249.0-251.6)					
291.0	296.6	IRON FORMATION interbedded chert and magnetite					
		15-20% magnetite, less than 1% pyrrhotite and					
		pyrite. Occasional bands of chlorite alteration.					
		banding 65-70 d to C.A.					
296.6	302.9	ANDESITE, medium green colour, fine grained to					
		massive, well fractured and banded, with carbonate					
		and quartz stringers, flecked appearance in					
		places. banding 65-70d to C.A.					
302.9	304.2	IRON FORMATION interbedded magnetite and chert					
		20-25% magnetite, 3-5% pyrite, occasional bands					
		of chlorite. banded at 65-70d to C.A.					
304.2	311.5	ANDESITE, medium to dark green colour, fine					
		grained, very slightly fractured with carbonate					
		stringer, occasional quartz blebs in places, less					
		than 1% pyrite, flecked appearance from carbonate					
		in places.					
311.5	319.6	IRON FORMATION, interbedded, chert and magnetite					
		20-25% magnetite, 1-3% pyrrhotite and minor pyrite,					
		occasional bands of chlorite, bedding is fractur-					
		ed and contorted in places, generally 65-70d to					
		C.A.					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 19

DEPTH NO. 5

		SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
319.6	393.1	ANDESITE, medium green colour, massive, slightly fractured with carbonate, less than 1% pyrite in places, occasional quartz and tourmaline stringers.				
393.1	401.1	IRON FORMATION, interbedded magnetite and chert 35-40% magnetite, occasional bands of chlorite, 1-3% pyrrhotite with minor pyrite. banding 45-50d to C.A.				
401.1	422.3	ANDESITE medium green colour, massive to slightly banded, at 55-60% to C.A. slightly fractured with dark alteration, (tourmaline?) occasional quartz veinlets.				
		403.2-404.3, magnetite, chert and carbonate; vein material? 1-3% pyrrhotite, minor chalcopyrite, bedding well contorted.	316f	403.2	404.3	1.1' 0.015
		404.3-422.3, as above (401.1-403.2) fragments are beginning to appear.				
422.3	425.5	IRON FORMATION, interbanded magnetite and chert, 25-30% magnetite, 5-10% pyrrhotite, occasional bands of chlorite, banding 65-70d to C.A.				
425.5	425.9	ANDESITE, medium green colour, massive.				
425.9	427.4	IRON FORMATION, as above (422.3-425.5)				
427.4	482.1	ANDESITE, as above (425.5-425.9)				
428.1	431.7	IRON FORMATION, interbedded magnetite and chert 20-25% magnetite, 5-10% pyrrhotite, banding 60-65d to C.A., occasional bands of chlorite alteration.				

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 28

SHEET NO. 6

			SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
431.7	432.1	ANDESITE, as above (425.5-425.9) flecked appearance.					
432.1	437.6	IRON FORMATION interbedded magnetite and chert 5-10% magnetite, occasional bands of chlorite alteration, 3-5% pyrrhotite.					
437.6	683.1	ANDESITE medium green colour, fine grained, massive to slightly banded, well fractured in places with light green fragments, carbonate stringers with 15-20% pyrrhotite, occasional quartz stringers and blebs.					
		504.6-509.4, intermittent milky white quartz veins, veinlets and stringers, well fractured and contorted country rock with carbonate stringers, tourmaline? and 12% pyrite.	3162	504.6	509.4	4.8'	0.01
		509.4-514.2, same as above only 1-3% pyrite and arsenopyrite, banded 55-60d to C:A.	3163	509.4	514.2	4.8'	0.015
		514.2-516.0, banded medium green colour, massive, highly siliceous with quartz blebs and stringers.	3164	514.2	516.0	1.8'	0.01
		516.0-596.0, medium green colour, massive, less than 1% pyrite, slightly fractured with carbonate and quartz stringers, some localized areas containing fragments? occasional 1"-2" quartz veinlets.					
		596.0-597.5, white to blue quartz vein, less than 1% pyrrhotite and pyrite	3165	596.0	597.5	1.5'	0.01

DIAMOND DRILL RECORD

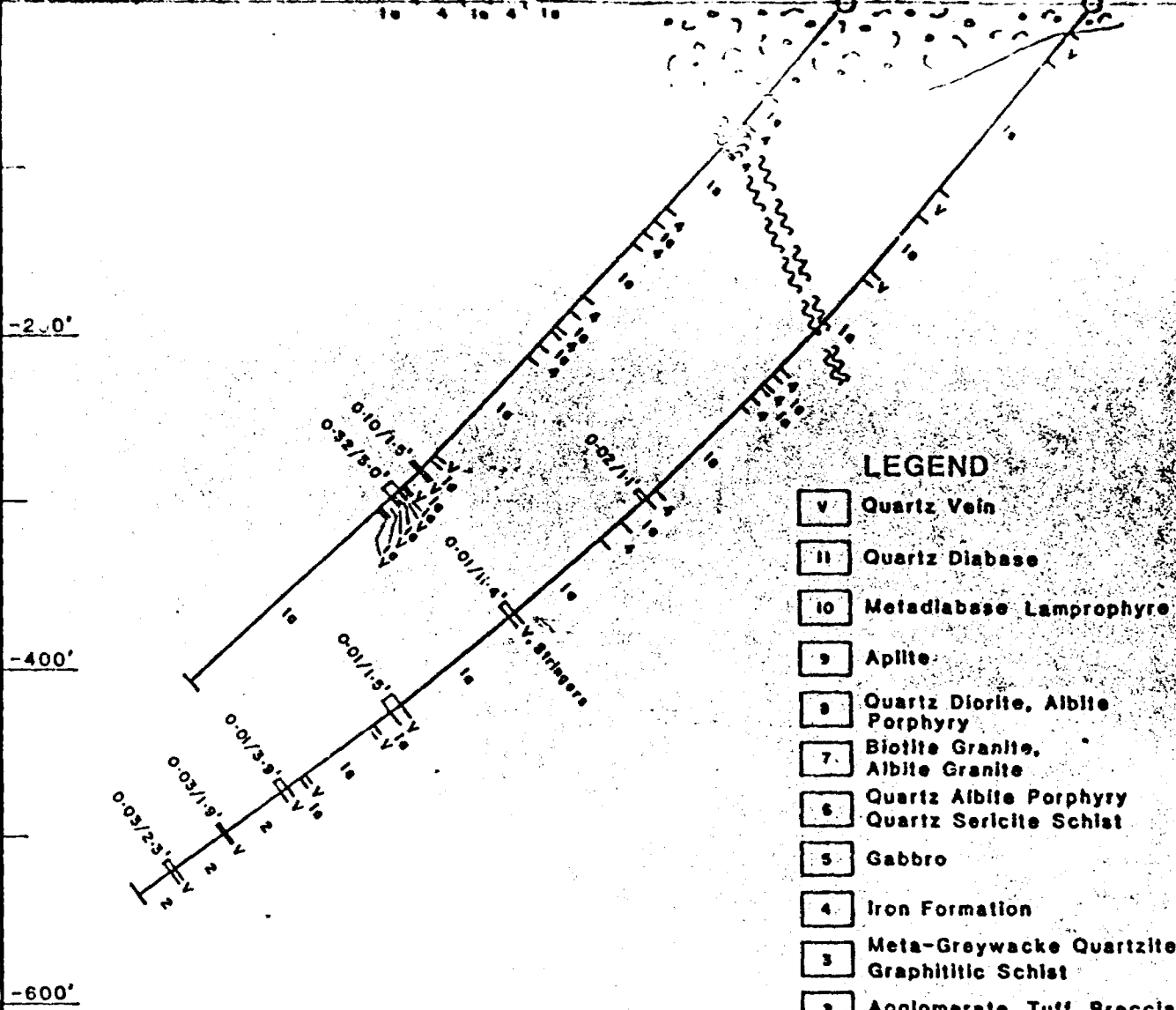
PROPERTY Callant-Pickle Crew Option

HOLE NO. 18

SHEET NO. 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
		597.5-600.8, white to blue quartz vein, 1-3% pyrrhotite, pyrite, minor chalcopyrite.	3166	597.5	600.8	3.3'	Tr.
		600.8-616.3, medium green colour, fine grained, slightly fractured, with carbonate and quartz stringers and veinlets, minor tourmaline, less than 1% pyrite.					
		616.3-618.6, BLUE quartz vein, 5-10% pyrrhotite, minor pyrite and chalcopyrite	3167	616.3	618.6	2.3'	Tr.
		618.6-665.6, as above (600.8-616.3) no pyrite, flecked appearance in places, occasional fragments.					
		665.6-668.1, milky white quartz vein 1-3% pyrrhotite, minor pyrite and arsenopyrite, minor tourmaline.	3168	655.6	668.1	2.5'	0.005
		668.1-679.2, as above (618.6-665.6), 1-3% pyrrhotite, pyrite, minor chalcopyrite.					
		679.2-683.1, milky white quartz stringers and veinlets, 1-3% pyrite.	3169	679.2	683.1	3.9'	0.01
683.1	786.0	ANDESITE BRECCIA? medium green colour with hazy light green fragments, fine grained, slightly fractured with carbonate and quartz stringers and veinlets.					
		723.9-725.0, well contorted milky white quartz stringers, minor tourmaline, less than 1% pyrite	3170	723.9	725.0	1.1'	0.005
		725.0-725.6, as above.					

Datum



LEGEND

- V Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Aibite Porphyry
 - 7 Biotite Granite, Aibite Granite
 - 6 Quartz Aibite Porphyry
 - 5 Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics
b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicitic

SULPHIDES

- Py Pyrite
- Ps Pyrrhotite
- Cs Chalcopyrite
- Ss Sphalerite
- Gs Galena
- As Arsenopyrite

0-25/3-0' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-5, 18

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY Callaghan Creek HOLE NO. G-P-81-19 SHEET NO. 1

LOCATION Alamy Road, N.W. 1/4

MARKING 50' DIP 50°

STARTED June 7/81

LATITUDE 18+50 S

TESTS:

COMPLETED June 10/81

DEPARTURE 54+00 E

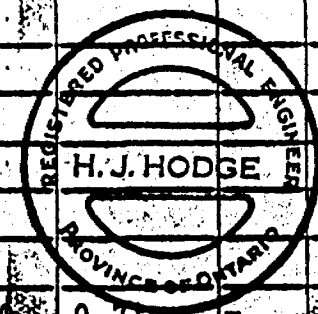
FOOTAGE	DIP	BEARING
400	38d	
806	38d	

ULTIMATE DEPTH 806'

ELEVATION _____

LOGGED BY S. Waldie

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0	6.0	CASING					
6.0	195.3	ANDESITE, medium green colour, fine grained, well fractured, and broken, occasional quartz and carbonate stringers.					
		17.0-63.5, as above, less broken, only slightly fractured with carbonate and quartz stringers, slightly banded at 55d-60d to C.A.					
		63.5-72.4, medium green colour, massive, well fractured, with carbonate and quartz stringers, heavy tourmaline, less than 1% pyrite.					
		72.4-74.8, same as above (63.5-72.3)	3173	72.4	74.8	2.4'	Tr.
		74.8-195.3, medium green colour, massive, slightly to moderately fractured with carbonate stringers, in places heavy tourmaline, occasional quartz stringers, occasional areas of chlorite alteration.					
195.3	196.0	IRON FORMATION, interbedded magnetite and chert, 3-5% magnetite, massive pyrite and bands of chlorite alteration.	3174	195.3	196.0	0.7	Tr.



DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 19 UNIT NO. 2

			SAMPLE NO.	FROM	TO	THICKNESS	Gz/T Au
-96.0	237.6	ANDESITE, medium green colour, fine grained, slightly fractured with carbonate stringers and occasional quartz stringers, heavy tourmaline, less than 1% pyrite.					
		209.9-210.9, milky white quartz vein with massive tourmaline, minor carbonate and chlorite alterat-					
		ion, 1-3% pyrrhotite, minor pyrite	3175	209.9	210.9	1.0'	Tr.
		210.9-224.5, andesite, as above (196.0-209.9)					
		224.5-224.9, milky white quartz vein	3176	224.5	224.9	0.4'	Tr.
		224.9-234.8, as above (196.0-209.9)					
		234.8-235.6, tourmaline and quartz-carbonate vein? less than 1% pyrrhotite, minor pyrite	3177	234.8	235.6	0.8'	Tr.
		235.6-236.5, as above (196.0-209.9)					
		236.5-237.6, well fractured quartz-carbonate vein with tourmaline stringers, 15-20% pyrrhot-					
		ite and pyrite.	3178	236.5	237.6	1.1'	Tr.
237.6	238.7	IRON FORMATION, interbedded magnetite and chert, 5-10% magnetite, 5-10% pyrrhotite and pyrite, banded 20-25d to C.A.	3179	237.6	238.7	1.1'	Tr.
238.7	253.2	ANDESITE, medium green colour, fine grained, some fragments in sections? slightly fractured with carbonate and tourmaline stringers. slightly banded in places 45-50d to C.A.					
253.2	254.0	IRON FORMATION, weak, interbedded magnetite, and chert, band of chlorite. 1-3% magnetite.					

DIAMOND DRILL RECORD

PROPERTY _____

 HOLE NO. 19

 SHEET NO. 1

		DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T
							AU
254.0	266.6	ANDESITE, as above (238.7-253.2)					
266.6	268.2	IRON FORMATION, as above (253.2-254.0), 3-5% magnetite.					
268.2	273.1	ANDESITE, as above (238.7-253.2)					
273.1	274.3	IRON FORMATION, interbedded magnetite & chert, 10-15% magnetite, occasional minor bands of chlorite alteration, two 1/4" quartz stringers, 3-5% pyrite.	3180	273.1	274.3	1.2'	Tr.
274.3	281.8	ANDESITE, medium green colour, fine grained, slightly fractured with carbonate and minor quartz and tourmaline stringers.					
		277.4-278.6, green colour, quartz vein (chert?), minor small band of magnetite, well fractured 1-3% pyrrhotite.	3181	277.4	278.6	1.2'	Tr.
		278.6-281.8, as above, (274.3-277.4)					
281.8	283.0	IRON FORMATION interbedded magnetite and chert, 1-3% magnetite, well fractured and contorted with carbonate.					
283.0	361.4	ANDESITE, as above (274.3-281.8)					
		286.3-286.9, quartz and carbonate vein	3182	286.3	286.9	0.6'	Tr.
		286.9-298.6, as above (274.3-281.8)					
		289.6-290.6, DYKE MATERIAL?					
		290.6-304.1, medium green colour, fine grained, slightly to moderately fractured with carbonate stringers, tourmaline blebs and stringers, minor quartz stringers, less than 1% pyrrhotite,					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. _____

DEPTH NO. _____

DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T Au
	pyrite, minor chalcopyrite and sphalerite.					
	304.1-304.6, milky white quartz carbonate vein, less than 1% pyrite.	3183	304.1	304.6	0.5'	.005
	304.6-350.4 medium green colour, fine grained, slightly fractured with carbonate stringers, and minor quartz and tourmaline stringers. banded 40-45d to C.A.					
	350.4-352.2, milky white quartz vein and stringers of carbonate	3184	350.4	353.2	1.8'	Tr.
	352.2-353.5, andesite as above (283.0-361.4)					
	353.5-354.2, blue quartz veinlet and carbonate stringers, less than 1% pyrrhotite and pyrite.	3185	353.5	354.2	0.7'	Tr.
	354.2-361.4, andesite as above.					
361.4	363.2 IRON FORMATION, interbedded magnetite, chert, highly contorted, with highly contorted quartz stringers, 5-10% pyrite, minor pyrrhotite, 1-3% magnetite	3186	361.4	363.2	1.8'	.005
363.2	369.6 ANDESITE, medium green, fine grained, moderately to well fractured with carbonate stringers, slightly contorted. occasional quartz and quartz-carbonate stringers.					
	365.6-367.2 4" milky white quartz vein with quartz and quartz-carbonate stringers.	3187	365.6	376.2	1.6'	.005
	367.2-369.6, andesite as above (363.2-369.6)					

DIAMOND DRILL RECORD

PROPERTY _____

 HOLE NO. 19

 QUANT. NO. 5

			SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
396.6	376.2	IRON FORMATION, weakly magnetic, highly contorted zone of quartz, quartz-carbonate and carbonate stringers, 3-5% pyrrhotite and pyrite. minor tourmaline stringers, interbanded chert and magnetite,					
			3188	369.6	374.4	4.8'	.005
		374.4-376.2, same as above (369.6-374.4)	3189	374.4	376.2	1.8	Tr.
376.2	379.3	ANDESITE, as above (363.2-369.6)					
379.3	380.5	IRON FORMATION, as above, (369.6-376.2)					
380.5	403.7	ANDESITE, medium green colour, fine grained, moderately fractured with carbonate stringers.					
		382.6-385.1, Diorite dyke? coarse andesite? less than 1% pyrite.					
		385.1-385.6, as above (380.5-382.6)					
		385.6-399.6 Diorite Dyke? coarse andesite? less than 1% pyrite.					
		399.6-403.7, medium green colour, massive, moderately fractured with carbonate stringers.					
403.7	420.4	IRON FORMATION, interbanded magnetite and chert, 10-15% magnetite. less than 1% pyrite and pyrrhotite. VERY WEAK in places, less than 1% magnetite, minor chert with chlorite banding well contorted in places. generally 65-70d to C.A.					
		414.2-415.5, well silicified section, chert? quartz stringers?	3190	414.2	415.5	1.3'	Tr.

DIAMOND DRILL RECORD

PROPERTY: Goldfield-Blackfoot Group (1917)

HOLE NO. 19

DEPTH NO. 6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
420.4	423.7	ANDESITE, as above (390.5-403.7)					
423.7	432.6	IRON FORMATION, interbanded magnetite and chert 10-15% magnetite, well contorted bands, 3-5% pyrite. banding 50-55d to C.A.					
		426.8-428.6, as above 5-10% pyrrhotite & pyrite.	3191	426.8	428.6	1.8'	Tr.
432.6	537.5	ANDESITE BRECCIA? medium green colour, fine grained, with hazy light green fragments, flecked appearance from carbonate flecks in sections, slight to moderate fracturing with minor pyrite, tourmaline and carbonate stringers, occasional quartz stringers, occasional magnetite. 476.6-477.3, 3" quartz vein milky white colour minor quartz and carbonate stringers					
		477.3-537.5 as above (432.6-476.6)	3192	476.6	477.3	0.7'	.005
537.5	539.9	IRON FORMATION, interbedded magnetite and chert, 1-3%. 538.3-539.9, very weak, little magnetite, minor carbonate stringers-chlorite alteration.					
539.9	541.3	ANDESITE BRECCIA as above (432.6-537.5)					
541.3	550.9	IRON FORMATION 541.3-544.9 interbedded chert and magnetite 15-20% magnetite, 3-5% pyrite, pyrrhot- ite, and minor chalcopyrite. occasional bands of chlorite.					
			3193	541.3	544.9	3.6'	.01'

DIAMOND DRILL RECORD

PROPERTY _____

LOCALITY _____

HOLE NO. 19

SHEET NO. 2

		DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T Au
		544.9-548.3, weak minor magnetite interbedded with andesite breccia? occasional bands of carbonate and chert? 1-3% magnetite, 5-10% chert, minor tourmaline.	3194	548.3	550.9	2.6'	.02
		548.3-550.9, interbedded chert and magnetite, bands well contorted. 5-10% magnetite, 15-20% pyrrhotite pyrite, minor chalcopyrite.					
550.9	562.4	ANDESITE BRECCIA? medium green colour, fine grained, with hazy light green fragments.					
		552.3-556.7, milky white quartz veins and veinlets, 15% quartz material, minor carbonate stringers, minor chlorite tourmaline, less than 1% pyrrhotite; pyrite.	3195	552.3	556.7	4.4	.005
		556.7-560.8, same as above (552.3-556.7)	3196	556.7	560.8	4.1'	.005
		560.8-562.4, same as above (552.3-556.7)	3197	560.8	562.4	1.6'	.005
562.4	567.9	IRON FORMATION, 562.4-566.5, interbedded magnetite and chert, 20-25% magnetite, 5-10% pyrrhotite and pyrite. banded 40-45d to C.A.	3198	562.4	566.5	4.1'	.025
		566.5-567.9, weak, mainly chert, 3-5% magnetite, occasional bands of chlorite, 20-25% pyrrhotite, pyrite, minor quartz veinlet 1/4" quartz stringers.	3199	566.5	567.9	1.4'	.05
567.9	673.5	ANDESITE, BRECCIA? medium green colour, fine grained, slightly to moderately fractured, with carbonate stringers.					

DIAMOND DRILL RECORD

PROPERTY Plant - Middle River Station HOLE NO. 19 QUANT. NO. R

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
	627.9-630.5	minor quartz stringers, and blebs					
	630.5-670.4	3-5% quartz, tourmaline, 1-3% pyrrhotite, pyrite and chalcopyrite	3200	627.9	630.5	2.6'	Tr.
	630.5-670.4	as above (567.9-627.9)					
	670.4-673.5	SHEAR ZONE, carbonate stringers, slightly broken.					
673.5	735.9	ANDESITE, medium green colour, fine grained, slightly fractured, with carbonate stringers, minor tourmaline and quartz stringers, less than 1% pyrite.					
	697.1-698.6	well fractured with quartz and carbonate stringers, minor tourmaline stringers, less than 1% pyrite, 5-8% quartz material.	5601	697.1	698.6	1.5	Tr.
	698.6-708.4	andesite, medium green colour, moderately to well fractured with carbonate stringers					
		minor quartz stringers minor tourmaline, less than 1% pyrite.					
	708.4-712.3	well fractured and contorted carbonate and quartz stringers, minor tourmaline, less than 1% pyrite, 1-3% quartz	5602	708.4	712.3	3.9'	.005
	712.3-716.0	same as above. 40% quartz material (708.4-712.3)	5603	712.3	716.0	3.7'	.005
	716.0-719.3	same as above (712.3-716.0)	5604	716.0	719.3	3.3'	Tr.
	719.3-722.4	andesite as above. (698.6-708.4)					

DIAMOND DRILL RECORD

PROPERTY Callant-Bickle (New) Option

HOLE NO. 19

SHEET NO. 9

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
		722.4-724.0, quartz veinlet and stringers of carbonate, less than 1% pyrite, minor tourmaline, 30% quartz	5605	722.4	724.0	1.6'	.005
		724.0-729.5, as above (698.6-708.4)					
		729.5-730.9, quartz vein 12", minor tourmaline and carbonate stringers, less than 1% pyrite, 80% quartz material.	5606	729.5	730.9	1.4'	Tr.
		730.9-732.3 andesite as above. (698.6-708.4)					
		732.3-735.9, quartz veins and stringers, bands of chlorite, carbonate stringers, less than 1% pyrite, 40% quartz material	5607	732.3	735.9	3.6'	Tr.
735.9	775.2	FELDSPAR QUARTZ PORPHYRY, light greenish grey colour, 40-50% plagioclase feldspars, waxy yellow appearance (slightly sericitized), 10-15% quartz phenocrysts. 1% disseminated pyrite, occasional pyrrhotite, slightly foliated at 35-40d to C.A. Minor chlorite in matrix (3-5%) slightly fractured with quartz stringers and minor quartz carbonate stringers.					
		735.9-737.5, quartz vein, 1% pyrite and minor pyrrhotite, minor tourmaline stringers, 50% vein material.	5608	735.9	737.5	1.6'	Tr.
		737.5-738.9, as above.					
		738.9-740.1, as above, 5-10% vein material (735.9-737.5)	5609	738.9	740.1	1.2'	Tr.

DIAMOND DRILL RECORD

PROPERTY Callan-Buckley Snow Crater

HOLE NO. 19

SHOULDER NO. 10

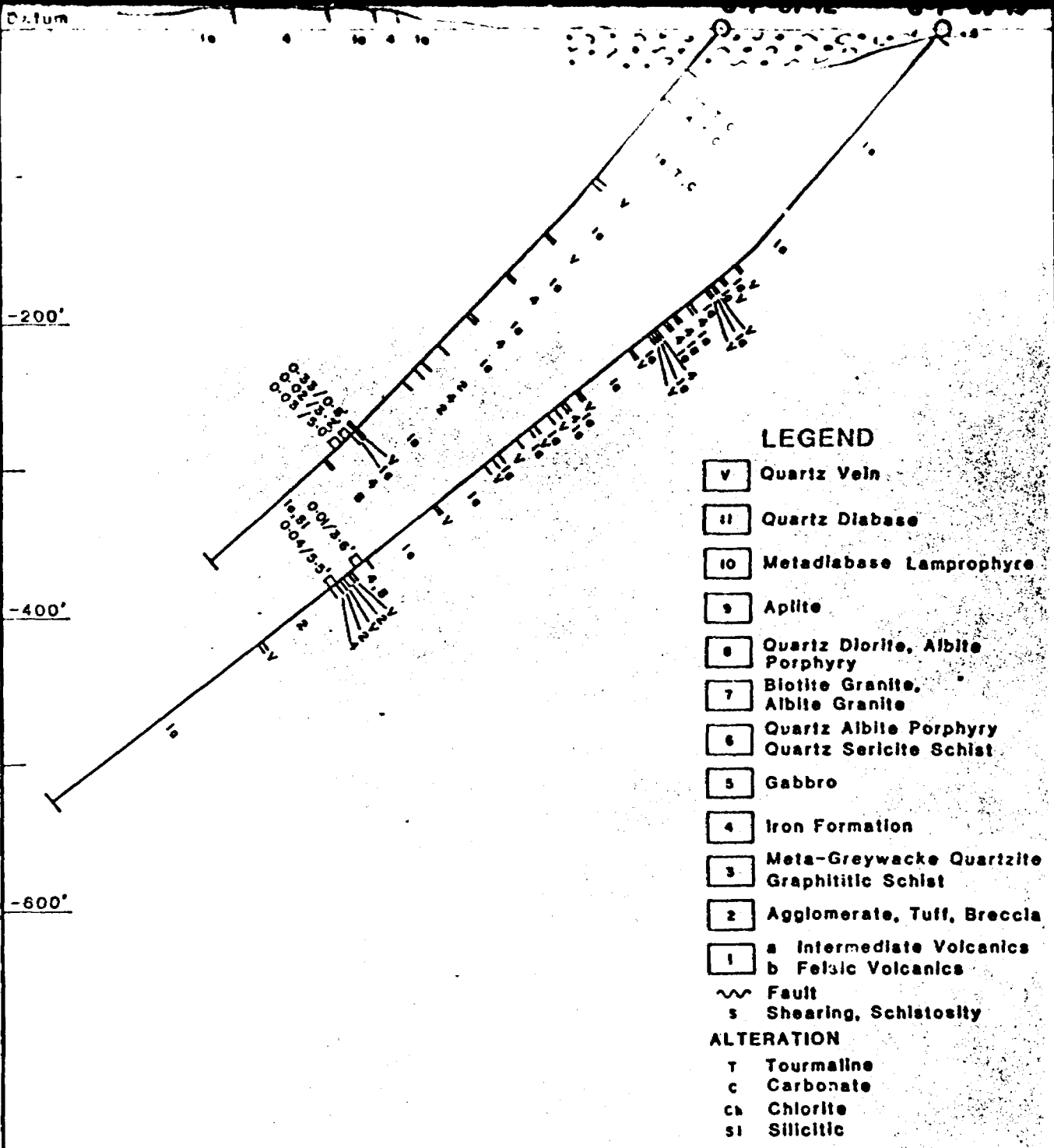
DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T	AN
	740.1-745.1, as above.						
	745.1-748.3, as above	5610	745.1	748.3	3.2'	Tr.	
	748.3-775.2 as above.						
775.2	777.5 ANDESITE, medium green colour with hazy light green splotches (fragments?), fine grained, moderately fractured with carbonate and minor quartz stringers.						
777.5	780.0 FELDSPAR QUARTZ PORPHYRY, as above (735.9-775.2)						
780.0	806.0 ANDESITE, medium green colour, fine grained, slightly to moderately fractured with carbonate stringers, occasional quartz stringers and veinlets.						
	780.4-782.5, 5" pinkish white carbonate vein with well fractured and contorted blue quartz stringers. 1-3% pyrite, 3-4% tourmaline.	5611	780.4	782.5	2.1'	Tr.	
	782.5-806.0 andesite as above.						
	(780.0-806.0)						
806	END OF HOLE						

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - ii Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicific

SULPHIDES

- Py Pyrite
- Ps Pyrrhotite
- Cs Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-12, 19

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. C-P-81-20 SURVEY NO. 1

LOCATION ALBERTA
 LATITUDE 18+50S
 DEPARTURE 52+00 E
 ELEVATION _____

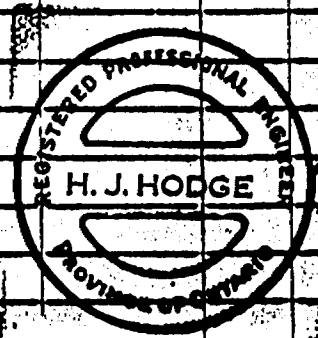
DIP _____

TESTS:

FOOTAGE	DIP	HEARING
406	40d	
600	38d	
796	38d	

STARTED June 10/81
 COMPLETED June 13/81
 ULTIMATE DEPTH 806'
 LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	PKET	Au Oz/T
0	6.0	CASING					
6.0	207.0	ANDESITE, 6.0-9.5, medium green colour, fine grain- ed, moderately broken.					
		9.5-123.9, medium green colour, fine grained, slightly fractured with carbonate quartz strin- gers, minor tourmaline.					
		123.9-126.9, Quartz carbonate veins, tourmaline stringers, 60% vein material	5612	123.9	126.9	3.0'	Tr.
		126.9-167.5, andesite as above (9.5-123.9)					
		167.5-168.1, tourmaline, quartz, carbonate vein 15% quartz material, 1-3% pyrite, minor pyrrhotite and chalcopyrite.	5613	167.5	168.1	0.6'	.005
		168.1-182.5, as above (9.5-123.9)					
		182.5-197.8, as above (9.5-123.9) with 30% tourma- line mineralization.					
		197.8-207.0, as above (9.5-123.9)					
207.0	213.7	IRON FORMATION, weak interbedded magnetite, chert and chlorite, 3-5% pyrite, pyrrhotite. 10-15% tourmaline stringers.					



DIAMOND DRILL RECORD

PROPERTY _____

LOCATION _____

 HOLE NO. 20

 SHEET NO. 2

DEPTH		DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Gz/T Au
START	END						
		207.0-209.0, as above	5614	207.0	209.0	2.0'	.005
213.7	221.8	ANDESITE, medium green colour massive with minor tourmaline stringers.					
221.8	226.6	IRON FORMATION interbedded magnetite, chert, chlorite, with minor tourmaline, 3-5% magnetite, 1-3% pyrrhotite, pyrite, minor chalcopyrite, occasional sphalerite, banding well contorted through out.					
226.6	247.7	ANDESITE, medium green colour, massive to fine grained, slightly fractured with carbonate, quartz carbonate and minor tourmaline stringers.					
		238.0-240.9, medium green, fine grained, well fractured with carbonate and tourmaline stringers. minor sericite.					
		240.9-241.9, chlorite alteration, tourmaline, carbonate, chert, minor magnetite. less than 1% pyrrhotite, pyrite, minor chalcopyrite, minor sericite.	5616	240.9	241.9	1.0'	Tr.
		241.9-243.3, sericite schist, well fractured with carbonate stringers, chert blebs, tourmaline and quartz-carbonate stringers.					
		243.3-247.7, as above (226.6-247.7)					
247.7	253.4	IRON FORMATION, interbedded chert and magnetite, 5-10% magnetite, 30-35% pyrrhotite, minor pyrite, chalcopyrite, minor chlorite banded 35-40d to C.A.	5617	247.7	251.9	4.2'	Tr.

DIAMOND DRILL RECORD

PROPERTY Callington-Blackie, New Guinea

HOLE NO. 20

CURR. NO. 3

		DEPTH	DIAMETER	REMARKS	SAMPLE NO.	FROM	TO	DEPTH	OZ/T Au
		247.7-251.9		as above.					
		251.9-253.4		as above.					
253.4	430.0	ANDESITE, medium green colour, fine grained, slightly fractured with, tourmaline, and carbonate stringers.							
		253.9-291.0, medium green, massive, occasional carbonate and quartz stringers.							
		291.0-299.1, medium green colour, fine grained, moderately fractured with carbonate stringers, banding 50-55d to C.A. less than 1% pyrite.							
		299.1-299.6, quartz veinlets, milky white to blue, 50% quartz material			5618	299.1	299.6	0.5'	.03
		299.6-308.0, as above (253.4-291.0)							
		308.0-324.9, as above (253.9-291.0)							
		324.9-344.0, medium green colour, moderately fractured. with carbonate stringers, and veinlets. tourmaline stringers, less than 1% pyrite, minor pyrrhotite and chalcopyrite.							
		344.0-345.1, quartz-carbonate vein, minor tourmaline stringers, minor chlorite, minor orthoclase? stringer, 50% quartz material.			5621	344.0	345.1	1.1'	.005
		345.1-376.0, medium green colour, fine grained, massive, to slightly sheared with carbonate stringers, occasional tourmaline stringers.							

DIAMOND DRILL RECORD

PROPERTY _____

Location - _____

HOLE NO. _____

20

DEPTH NO. _____

4

DESCRIPTION	SAMPLE NO	START	END	DEPTH	Oz/T Au
376.0-376.7, quartz veinlet with chlorite, 1-3% pyrite, minor magnetite, 60% quartz	5622	376.0	376.7	0.7'	Tr.
376.7-406.0, as above only occasional quartz stringers (345.1-376.0)					
406.0-408.6, medium green colour, fine grained, moderately to well sheared, broken in places.					
408.6-409.9 andesite as above (345.1-376.0)					
409.9-411.9, milky white quartz vein, less than 1% pyrite, minor chalcopyrite, pyrrhotite, and occasional arsenopyrite. 90% quartz	5619	409.9	411.9	2.0'	.005
411.9-414.0, medium green colour, fine grained moderately sheared with carbonate, quartz-carbonate, and quartz stringers, 1-3% pyrite	5623	411.9	414.0	2.1'	.005
414.0-414.6, milky white quartz vein with less than 1% pyrite, occasional arsenopyrite. 90% quartz.	5620	414.0	414.6	0.6	Tr.
414.6-419.1, highly siliceous with BLUE and white quartz veins, less than 1% pyrrhotite and pyrite.	5624	414.6	419.1	4.5'	.005
419.1-424.2, as above (414.6-419.1)	5625	419.1	424.2	5.1'	.01
424.2-426.3, light green, massive, well bleached.					
426.3-427.2, quartz veinlet, well sheared with carbonate and chlorite	5626	426.3	427.2	0.9'	.005

DIAMOND DRILL RECORD

PROPERTY _____

LOCALITY _____

HOLE NO. 20

SHEET NO. 5

		DEPTH	START	STOP	THICK	OZ/T
		FEET	FEET	FEET	IN	TON
		427.2-430.0 as above (424.2-426.3)				
430.0	437.2	IRON FORMATION, interbedded magnetite and chert 5-10% magnetite, 10-15% pyrrhotite and pyrite. bedding well contorted in places generally 65- 70d to C.A.				
		430.0-432.4, as above	5627	430.0	432.4	2.4'
		432.4-437.2 as above				Tr.
437.2	441.2	ANDESITE, medium green colour, fine grained, well sheared and broken to moderately sheared.				
441.2	459.6	IRON FORMATION, interbedded chert and magnetite, minor bands of chlorite, 3-5% magnetite, 5-10% pyrite, pyrrhotite, minor chalcopyrite, moderately sheared and broken, shearing 25-30d to C.A.				
		441.2-444.0 as above	5628	441.2	444.0	2.8'
		444.0-446.0, iron formation as above. 3-5% pyrite pyrrhotite, minor chalcopyrite.				
		446.0-450.4, as above, 10-15% pyrrhotite, pyrite banding 15-20d to C.A.	5629	446.0	450.4	4.4'
		450.4-457.2 iron formation interbedded magnetite and chert, minor bands of chlorite, 1-3% pyrrhot- ite, pyrite, 3-5% magnetite.				.005
		457.2-459.6, 1-3% magnetite, 30% chlorite, 10- 15% pyrite and pyrrhotite, minor quartz and quartz-carbonate stringers.	5630	457.2	459.6	2.4'
						.005

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 29

SHEET NO. 6

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
459.6 - 475.8	ANDESITE, medium green colour, fine grained, well sheared and broken with carbonate and minor quartz stringers.					
	463.0-463.6, milky white quartz vein, 80% quartz	5631	463.0	463.6	0.6'	.005
	463.6-471.0, as above (459.6-463.0)					
	471.0-472.9 milky white quartz with brownish grey sericitic alteration, 3-5% pyrite, well sheared at 60-65d to C.A. 25% quartz material	5632	471.0	472.9	1.9'	.05
	472.9-475.8, massive to moderately sheared, fine grained, carbonate and quartz-carbonate stringers along shear planes.					
475.8-478.8	IRON FORMATION, interbedded magnetite and chert 5-10% magnetite, massive pyrrhotite, minor pyrite banded 65-70d to C.A.	5633	475.8	478.8	3.0	.005
478.8 - 493.8	ANDESITE 478.8-479.3, grey coloured, well sheared with quartz stringers, massive pyrite banded 75-80d to C.A.	5634	478.8	479.3	0.5	.005
	479.3-481.2, fine grained, medium green colour, moderately sheared with carbonate stringers banded 60-65d to C.A.					
	481.2-482.0 DYKE MATERIAL? grey green colour, speckled appearance due to feldspar and quartz phenocrysts? minor chlorite alteration.					
	482.0- 482.4, as above (479.3-481.2)					
	482.8-484.6 DYKE MATERIAL as above (481.2-482.0)					

DIAMOND DRILL RECORD

PROPERTY Gallant-Rickle Crow Co. Inc. HOLE NO. 20 SURVEY NO. 7

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T
							At
		484.6-486.1, milky white quartz veinlet and stringers, less than 1% pyrite, minor chlorite	5635	484.6	486.1	1.5'	Tr.
		486.1-493.8, DYKE MATERIAL as above (481.2-482.0)					
493.8	506.9	IRON FORMATION interbedded magnetite and chert, 5-10% magnetite, occasional bands of chlorite, 1-3% pyrrhotite and pyrite.					
		503.4-506.9, as above, 15-20% pyrrhotite and pyrite	5636	503.4	506.9	3.5'	Tr.
506.9	508.3	FELDSPAR PORPHYRY green-greyish colour, pinkish feldspar, slightly sericitized. 3-5% chlorite minor quartz phenocrysts.					
508.3	528.0	IRON FORMATION as above (493.8 506.9)					
		526.0-528.0 as above with 10-15% pyrrhotite.	5637	526.0	528.0	2.0'	Tr.
528.0	553.1	ANDESITE, light green colour, well silicified and bleached. massive to slightly banded with carbonate and quartz stringers, fine grained.					
553.1	573.5	IRON FORMATION interbanded chert and magnetite, 30-35% magnetite, minor bands of chlorite alteration, less than 1% pyrite and pyrrhotite banding 40-45d to C.A.					
		568.0-569.1, as above, 30% pyrrhotite. (553.1-578.0)	5638	568.0	569.1	1.1'	Tr.
		569.1-578.0 as above (553.1-573.5)					
573.5	625.8	ANDESITE, medium green colour, moderately sheared, fine grained, carbonate stringers and minor quartz					

DIAMOND DRILL RECORD

PROPERTY Callaghan Creek, New Zealand HOLE NO. 20 SHEET NO. 8

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
		stringers along shear planes, less than 1% pyrite, banding 50-55d to C.A.					
		581.4-585.8, as above, with milky white quartz vein and stringers with slightly sericitized feldspar? on quartz borders, minor tourmaline and carbonate stringers, all moderately contorted.					
		20-25% quartz material, less than 1% pyrite.	5639	581.4	585.8	4.4'	Tr.
		585.4-588.0, as above (573.5-581.4) shearing slightly contorted.					
		588.0-589.2, minor feldspar (sericitized?) and quartz blebs, carbonate quartz stringers, minor tourmaline, and 1-3% pyrite.	5640	588.0	589.2	1.2'	.065
		589.2-600.1, medium green colour, fine grained, well sheared and moderately contorted with carbonate stringers, minor quartz-feldspar stringers, minor tourmaline, less than 1% pyrite.					
		600.1-601.6, 10-15% milky white quartz material, 5-8% pyrite.	5641	600.1	601.6	1.5'	.02
		601.6-608.5, as above (589.2-600.1)					
		608.5-609.4, milky white quartz veinlet and stringers, chlorite alteration, minor sericite alteration, minor tourmaline, less than 1% pyrite.	5642	608.5	609.4	0.9'	Tr.
		609.4-625.8, as above (589.2-600.1)					
625.8	628.8	FELDSPAR QUARTZ PORPHYRY, medium grey-green colour minor chlorite alteration, occasional quartz					

DIAMOND DRILL RECORD

PROPERTY Collins - Middle Creek Section HOLE NO. 20 SHEET NO. 9

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
		stringers, flecks of black mineral (tourmaline?) in places, 1% pyrite throughout.					
628.8	677.3	ANDESITE, as above (589.2-600.1)					
		638.0-639.3, 20-25% white quartz with sericitized feldspar and carbonate stringers, minor tourmaline.	5643	638.0	639.2	1.2'	Tr.
		639.3-658.5, as above (589.2-600.1)					
		658.5-677.3, medium green colour, moderately bleached, fine grained, slightly sheared with carbonate stringers and blue quartz (chert?) stringers, minor chlorite alteration in places. occasional narrow bands of magnetite with 1-3% pyrrhotite.					
677.3	692.9	IRON FORMATION interbanded magnetite and chert, 10-15% magnetite, 5-10% pyrrhotite, minor pyrite and chalcopyrite, massive in places. minor bands of chlorite alteration banding 45-50d to C.A.					
		677.3-680.6, as above	5644	677.3	680.6	3.3'	Tr.
		680.6-688.5, as above					
		688.5-689.4, iron formation as above, 35-40% pyrrhotite, minor pyrite, chalcopyrite, one band of chlorite alteration has feldspar blebs	5645	688.5	689.4	0.9'	Tr.
		689.4-690.2, as above (677.3-692.9)					
		690.2-692.9, as above only (677.3-692.9), 1-3% magnetite, 10-15% pyrrhotite, minor pyrite and	5646	690.2	692.9	2.7'	Tr.

DIAMOND DRILL RECORD

PROPERTY Callant - North Crow Gulch

HOLE NO. 20

SHEET NO. 10

			SAMPLE NO	FROM	TO	FEET	Oz/T Au
		minor carbonate stringers.					
629.9	701.0	ANDESITE, as above (658.5-677.3)					
701.0	704.1	FELDSPAR QUARTZ PORPHYRY? medium grey-green colour, 5-10% phenocrysts. 1% pyrite, minor chlorite alteration, slightly calcareous, with several blue quartz stringers and blebs, feldspar phenocrysts slightly sericitized. (waxy yellow appearance)					
		701.8-703.2, higher incidence of quartz stringers	5647	701.8	703.2	1.4'	Tr.
704.1	710.9	ANDESITE, as above (658.5-677.3)					
710.9	712.1	FELDSPAR QUARTZ PORPHYRY, as above, (701.0-704.1) lacking quartz stringers.					
712.1	716.4	ANDESITE, medium green, fine grained, moderately sheared with carbonate stringers, 55-60d to C.A. 713.9-714.8, 4" pinkish carbonate-quartz vein, and minor bluish quartz stringers with chlorite alteration, less than 1% pyrite, 'minor flecks' of tourmaline	5648	713.9	714.8	0.9'	.015
		714.8-716.4, as above (716.1-713.9)					
716.4	717.4	FELDSPAR QUARTZ PORPHYRY? highly fractured and altered with quartz veinlet, reddish to medium green grey colour, black alteration mineral? 1% pyrite, 25% quartz, 3-5% chloritic alteration	5649	716.4	717.4	1.0'	.015
717.4	724.4	ANDESITE, as above (712.1-716.4)					

DIAMOND DRILL RECORD

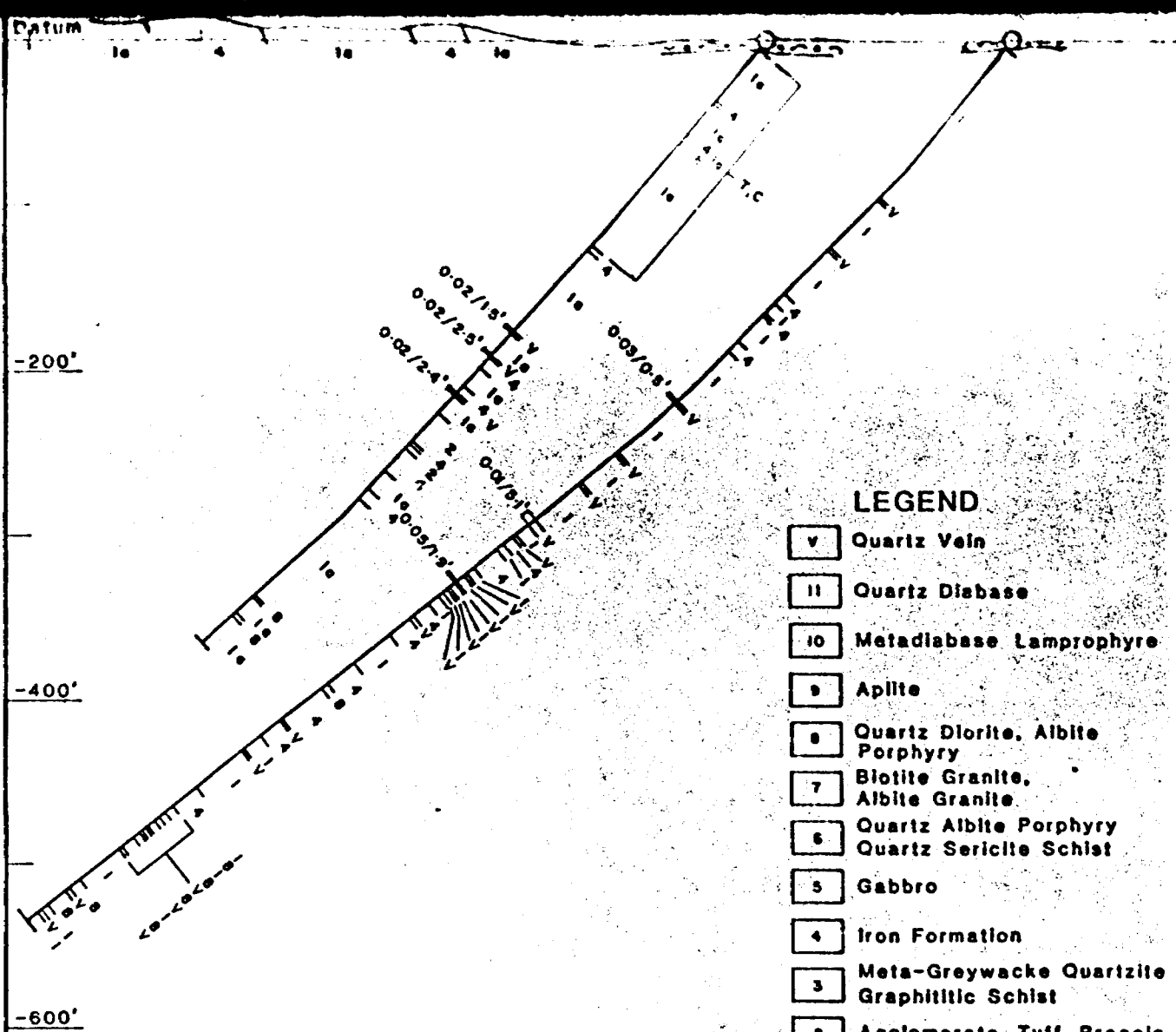
PROPERTY

Gallant-Pickle-Crow Option

HOLE NO. 20

SHEET NO. 11

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
724.4	735.4	FELDSPAR-QUARTZ PORPHYRY? medium greenish grey to medium green, irregular texture-from porphyritic to almost massive to fractured and brecciated, occasional quartz stringers, white to pink feldspar phenocrysts, slightly calcareous, 10-15% chlorite alteration, reddish brown weathering on fracture surfaces, 1% pyrite.					
		732.1-733.2, 15-20% QUARTZ MATERIAL, 5-10% chloritic alteration	5650	732.1	733.2	1.1'	Tr.
		733.2-734.1, as above (724.4-735.4)					
		734.1-735.4 as above (732.1-733.2)	5651	734.1	735.4	1.3'	Tr.
735.4	744.9	ANDESITE as above (712.1-716.4) Dark grey green colour, moderately calcareous, flecked appearance from white feldspars, 3-5% chlorite alteration, fine to medium? grained, less than 1% pyrite.					
		735.7-740.0, DIORITE DYKE?					
		740.0-741.1 as above (712.1-716.4)					
		741.1-742.5, Diorite Dyke? as above.					
744.9	745.6	FELDSPAR-QUARTZ PORPHYRY grey green colour, pink and white feldspar phenocrysts, no visible pyrite minor chlorite alteration, minor tourmaline?					
745.6	765.5	ANDESITE as above (712.1-716.4)					
765.5	791.1	FELDSPAR QUARTZ PORPHYRY medium grey-green colour 1% pyrite, minor tourmaline stringers, 1-3% chlorite alteration.					



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry
Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite
Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics
b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicite

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cs Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.		
PICKLE CROW OPTION, ONTARIO PICKLE LAKE AREA, ONTARIO VERTICAL SECTION		
D.D.H. G-P-81-10, 20		
LOOKING WEST		
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. G-R-91-21 SHEET NO. 1

LOCATION Alamy, Ontario

MINING CODE D12-506

STARTED June 11/81

LATITUDE 21+00 S

TESTS:

COMPLETED June 14/81

DEPARTURE 62+00 East

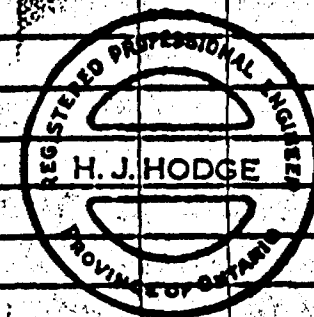
FOOTAGE	DIP	BEARING
200	50d	
400	46d	

ULTIMATE DEPTH 406'

ELEVATION _____

LOGGED BY S. Waldie'

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0	6.0	CASING					
6.0	7.3	FLOAT granitic RUBBLE					
7.3	29.4	ANDESITE? (RHYOLITE?) light green colour, fine grained, slightly fractured and sheared, with quartz stringers and minor carbonate well speckled with <u>tourmaline?</u> in planes.					
		12.6-13.8, FAULT? CAVE? granite RUBBLE and country rock well broken.					
		13.8-15.1, as above (7.3-29.4)					
		15.1-15.2 FAULT moderately broken					
		15.2-29.4 andesite as above (7.3-29.4) slightly sheared and broken.					
29.4	36.9	IRON FORMATION interbedded magnetite and chert 5-10% magnetite, 10-15% pyrite with minor pyrrhotite, chalcopyrite and sphalerite? moderately sheared and broken banding 75-80d to C.A.					
		29.4-33.4, as above (29.4-36.9)	5655	29.4	33.4	4.0'	.01
		33.4-35.0 as above (29.4-36.9)					
		35.0-36.9, cherty sections with minor quartz vein-let.	5656	35.0	36.9	1.9'	.005



DIAMOND DRILL RECORD

PROPERTY Callaghan-Blackburn Mine

HOLE NO. 21

SHEET NO. 2

DEPTH	DIAMETER	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T
							Au
36.9	245.1	ANDESITE, medium green colour, fine grained, massive to slightly banded with carbonate stringers, slightly flecked appearance. 70-80d to C.A. bleached appearance in places					
49.1-54.0		FAULT-moderately to well broken, some offset fractures noted.					
54.0-55.4		heavily sheared, fault					
55.4-56.5		as above (54.0-55.4) but 10-15% pyrite, minor vugs and minor quartz veinlet.	5657	55.4	56.5	1.1'	Tr.
56.5-75.3		as above (36.9-49.1) slightly broken, 1% pyrite and minor chalcopyrite, one 1" quartz veinlet.					
75.3-76.7		DYKE MATERIAL? medium green colour, flecked appearance with carbonate throughout					
76.7-79.9		medium green colour, slightly sheared to massive minor carbonate stringers.					
79.9-80.8		DYKE MATERIAL? as above (75.3-76.7)					
80.8-86.0		as above (76.7-79.9)					
86.0-86.7		DYKE MATERIAL? as above (75.3-76.7)					
86.7-114.4		as above (76.7-79.9) and moderately broken in places.					
114.4-117.0		shear zone well broken up with contorted bands at 90d to C.A.					
117.0-120.2		as above (76.7-79.9)					

DIAMOND DRILL RECORD

PROPERTY Callant-Mickle Creek Estate

HOLE NO. 21

SHEET NO. 3

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	THICK	Oz/T Au
120.2-121.0	milky white quartz veinlet with minor tourmaline and carbonate, minor quartz stringer					
30-35%	quartz	5658	120.2	121.0	0.8'	Tr.
121.0-126.0	as above (76.7-79.9)					
126.0-128.4	well banded with carbonate and minor quartz stringers, 1-3% pyrrhotite, minor pyrite, chalcopyrite, with quartz stringers banding 70-75d to C.A.	5659	126.0	128.4	2.4'	.005
128.4-136.0	medium green, fine grained, massive, to slightly sheared, with carbonate and quartz stringers, moderately broken in places.					
136.0-139.9	milky white quartz veins with grey- blue cherty? sections, less than 1% pyrrhotite, pyrite, and minor chalcopyrite, 40% quartz	5660	136.0	139.9	3.9'	Tr.
139.9-172.6	as above (128.4-136.0)					
172.6-173.4	grey blue chert? quartz? less than 1% pyrite, pyrrhotite and chalcopyrite.	5661	172.6	173.4	0.8'	.005
173.4-196.0	as above (128.4-136.0)					
196.0-198.1	creamy white quartz feldspar-carbonate vein, less than 1% pyrite, 15-20% quartz	5662	196.0	198.1	2.1'	Tr.
198.1-206.0	medium green colour, fine grained, massive to slightly sheared, with minor carbonate and quartz stringers.					
206.0-207.1	cherty blue section with 5-8% pyrrhotite & chalcopyrite, minor sphalerite?	5663	206.0	207.1	1.1'	Tr.

DIAMOND DRILL RECORD

PROPERTY

Callant-Wickie, Crow, Ontario

HOLE NO. 21

SHEET NO. 4

DEPTH		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		207.1-245.1, as above (198.1-206.0) occasional cherty sections with or without quartz blebs.					
		3-5% pyrrhotite, pyrite, chalcopyrite and occasional sphalerite?					
245.1	245.3	IRON FORMATION, interbanded magnetite and chert, 1-3% magnetite 1-3% pyrrhotite and pyrite.					
245.3	284.9	ANDESITE, as above (207.1-245.1)					
		259.8-263.4, 3-2" carbonate-quartz veins and one carbonate quartz stringer with minor tourmaline, less than 1% pyrite, pyrrhotite, 10-15% carbonate-quartz material.	5664	259.8	263.4	3.6'	.005
		263.4-284.9, as above (207.1-245.1) slightly sheared with carbonate-feldspar stringers					
284.9	286.9	IRON FORMATION, weak, interbedded magnetite and chert, with andesite, less than 1% magnetite 3-8% pyrrhotite, minor pyrite,	5665	284.9	286.9	2.0'	Tr.
286.9	406.0	ANDESITE, as above (207.1-245.1)					
		295.0-295.6, ½" blue quartz stringer with chlorite 5-10% pyrrhotite, pyrite and minor chalcopyrite.	5666	295.0	295.6	0.6'	Tr.
		295.6-296.2 as above (207.1-245.1)					
		296.2-297.6, Two 1½" quartz veinlets, minor chlorite alteration, 5-10% pyrrhotite, pyrite, minor chalcopyrite.	5667	296.2	297.6	1.4'	Tr.
		297.6-317.3, medium green colour, fine grained, massive to slightly sheared with carbonate stringers.					

DIAMOND DRILL RECORD

PROPERTY _____

Location - Waldie Creek StationHOLE NO. G-P-81-22SHEET NO. 1LOCATION AlbionLITING 21° 00' SSTARTED June 14/81LATITUDE 21+00 S

TESTS:

COMPLETED June 15/81DEPARTURE 66+00 E

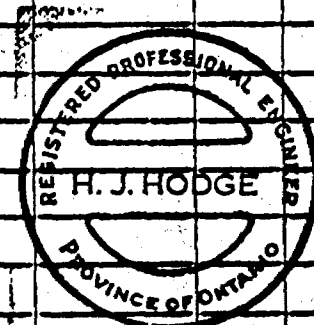
FOOTAGE	DYP	WEARING
200	50d	
400	40d	

ULTIMATE DEPTH 406'⁵

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	10.0	CASING					
10.0	75.1	ANDESITE light to medium green, fine grained, well sheared and broken with carbonate and quartz stringers, vuggy iron stained sections.					
		11.6-16.3, vuggy iron stained sections with quartz veinlets, pyrite, sphalerite? chalcopyrite.	5668	11.6	16.3	4.7'	Tr.
		16.3-46.0, andesite, medium green, fine grained, moderately sheared and broken in sections with carbonate stringers and minor quartz stringers, minor vuggy sections, minor pyrite. curious pea-green brecciated sections, less than 1% pyrite.					
		46.0-76.1, medium green colour, fine grained, massive to slightly sheared, with carbonate and tourmaline stringers, occasional quartz-carbonate stringers.					
76.1	77.4	IRON FORMATION, very weak mostly chert and chlorite less than 1% magnetite, 3-5% pyrrhotite, minor pyrite, chalcopyrite banded 65-70d to C.A.	5669	76.1	77.4	1.3'	Tr.
77.4	80.5	ANDESITE, as above (46.0-76.1)					



DIAMOND DRILL RECORD

PROPERTY _____

 HOLE NO. 22

 SHIRT NO. 2

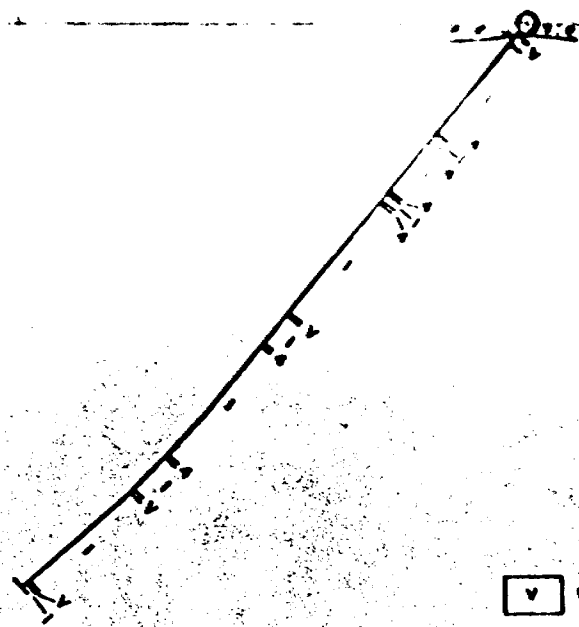
DEPTH	DIAMETER	DESCRIPTION	SAMPLE NO	FROM	TO	THICK	Oz/T Au
80.5	81.3	IRON FORMATION weak, mostly chert and chlorite less than 1% magnetite, 3-5% pyrrhotite, minor pyrite and chalcopyrite.	5670	80.5	81.3	0.8'	Tr.
81.3	116.7	ANDESITE as above (46.0-76.1) 99.9-100.8, quartz-carbonate zone, minor brown mineral? 10% quartz material.	5671	99.9	100.8	0.9'	.005
		100.8-116.7, medium green colour, fine grained, massive to slightly sheared, with carbonate and tourmaline stringers.					
116.7	118.0	IRON FORMATION weak, mostly chert and chlorite, less than 1% magnetite, 1-3% pyrrhotite, minor pyrite and chalcopyrite.	5672	116.7	118.0	1.3'	Tr.
118.0	121.1	ANDESITE, as above (100.8-116.7)					
121.1	121.9	IRON FORMATION as above (116.7-118.0)	5673	121.1	121.9	0.8'	Tr.
121.9	221.1	ANDESITE as above (100.8-116.7) occasional quartz stringers and blebs 50-55d to C.A. slightly sheared and broken in places. slightly speckled appear- ance in places.					
221.1	221.3	IRON FORMATION mainly chert, less than 1% magnet- ite.					
221.3	301.9	ANDESITE as above (121.9-221.1) 273.3-276.4 DYKE MATERIAL medium grey flecked appearance, fine grained. moderately calcareous massive.					

PACUM

-200'

-400'

-600'

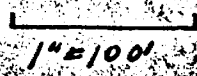


LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ch Chlorite
 - sl Silicific

SULPHIDES

- Py Pyrite
 - Pe Pyrrhotite
 - Cp Chalcopyrite
 - Sp Sphalerite
 - Go Galena
 - As Arsenopyrite
- 0.25/30' Au oz/ton/core length (feet)



GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-22

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 6-1-81-21

SHEET NO. _____

LOCATION _____

MINING DISTRICT _____

STARTED June 16/81

LATITUDE 20+00 S

TESTS:

COMPLETED June 17/81

DEPARTURE 62+00 E

DEPTH	DIP	BEARING
200	52d	
400	54d	
600	53d	

ULTIMATE DEPTH 606'

ELEVATION _____

LOGGED BY S. Waldie

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0	16	CASING					
16	19.3	ANDESITE medium green colour, fine grained, well fractured and broken, "ground" quartz veinlet.					
19.3	32.5	IRON FORMATION well banded 45d to C.A. Massive, magnetite, frequent bands of pyrrhotite and magnetite, 1-3% overall. moderately broken					
32.5	119.7	ANDESITE, as above (16-19.3) slightly bleached, well broken to slightly broken, some well banded sections (sheared) with carbonate stringers, 45-50 d to C.A.					
		81.5-82.1, milky white quartz-carbonate vein with minor tourmaline, 40% quartz	5677	81.5	82.1	0.6'	Tr.
		82.1-119.7, as above (32.5-81.5) not broken up					
119.7	126.6	IRON FORMATION as above (19.3-32.5)	5678	121.5	122.6	1.1'	.005
		121.5-122.6 slightly more sulphides 3-5% pyrrhotite					
		122.6-126.6, I.F. as above (19.3-32.5)					
126.6	134.5	ANDESITE? light green colour, moderately sheared, 55-60d to C.A. medium to fine grained with minor black mineral, (magnetite?) 1% pyrite throughout					



DIAMOND DRILL RECORD

PROPERTY

Callant-Buckle Groy Station

HOLE NO. 23

DEPTH NO. 2

			SAMPLE NO.	FROM	TO	THICK	OZ/T Au
		with medium green chlorite					
134.5	156.9	IRON FORMATION interbanded magnetite chert and chlorite, 5-10% magnetite well banded, moderately altered in places. 1-3% pyrrhotite, pyrite, minor chalcopyrite banding 45d to C.A.					
		146.0-148.5 I.F. as above (134.5-156.9) 10-15% pyrrhotite, pyrite and minor chalcopyrite	5679	146.0	148.5	2.5'	.025
		148.5-156.9, I.F. as above (134.5-156.9)					
156.9	265.2	ANDESITE medium green colour, fine grained, slightly to moderately sheared, with carbonate and occasional quartz.					
		234.6-236.0 feldspar veinlets, well contorted with slip fault at 2-5d to C.A. filled with quartz-carbonate material, less than 1% pyrite, pyrrhotite and minor chalcopyrite. slip displaces approx. 1/4"	5680	234.6	236.0	1.4'	Tr.
		236.0-265.2 as above -(156.9-234.6) occasional narrow bands of pyrrhotite, pyrite and chalcopyrite and minor magnetite.					
265.2	265.7	IRON FORMATION weak I.F. mostly chert 3-5% magnetite, 1-3% pyrrhotite and minor pyrite.	5681	265.2	265.7	0.5	Tr.
265.7	335.5	ANDESITE, medium green colour, massive to slightly sheared with carbonate stringers and feldspar? quartz veinlets.					

DIAMOND DRILL RECORD

PROPERTY California State Geology

HOLE NO. 23

CHECK NO. 3

DEPTH		DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/ft Au
		329.0-332.0, section of slightly ground core.					
		332.0-335.5, andesite as above (265.7-335.5)					
335.5	335.9	IRON FORMATION massive magnetite, minor chert (less than 1%) less than 1% pyrrhotite and pyrite.	5682	335.5	335.9	0.4'	Tr.
335.9	524.6	ANDESITE as above (265.7-335.5) Feldspar and or quartz gives speckled appearance in places, oc- casional quartz stringers to 1/2"					
		379.9-381.2, several chert bands with less than 1% magnetite.					
		381.2-442.5 as above (265.7-335.5) one 1/4" magne- tite-chert band, occasional narrow chert bands, some magnetite minor pyrrhotite.					
		442.5-443.3 chert, whitish-green to blue, less than 1% pyrite.	5683	442.5	443.3	0.8'	Tr.
		443.3- as above (265.7-335.5)					
		467.8-468.3, carbonate and quartz cutting I.F. 1-3% magnetite, mainly chert, 1% pyrrhotite, chalcopyrite and pyrite	5684	467.8	468.3	0.5	Tr.
		468.3 andesite as above (265.7-335.5)					
524.6	525.0	IRON FORMATION interbanded magnetite, chert and carbonate, massive magnetite 1-3% pyrrhotite	5685	524.6	525.0	0.4'	Tr.
525.0	606.0	ANDESITE, as above (265.7-335.5)					
		541.0-544.7 SHEAR ZONE, well banded with carbonate and quartz-carbonate stringers, slightly broken occasional minor bands of magnetite less than 1%					

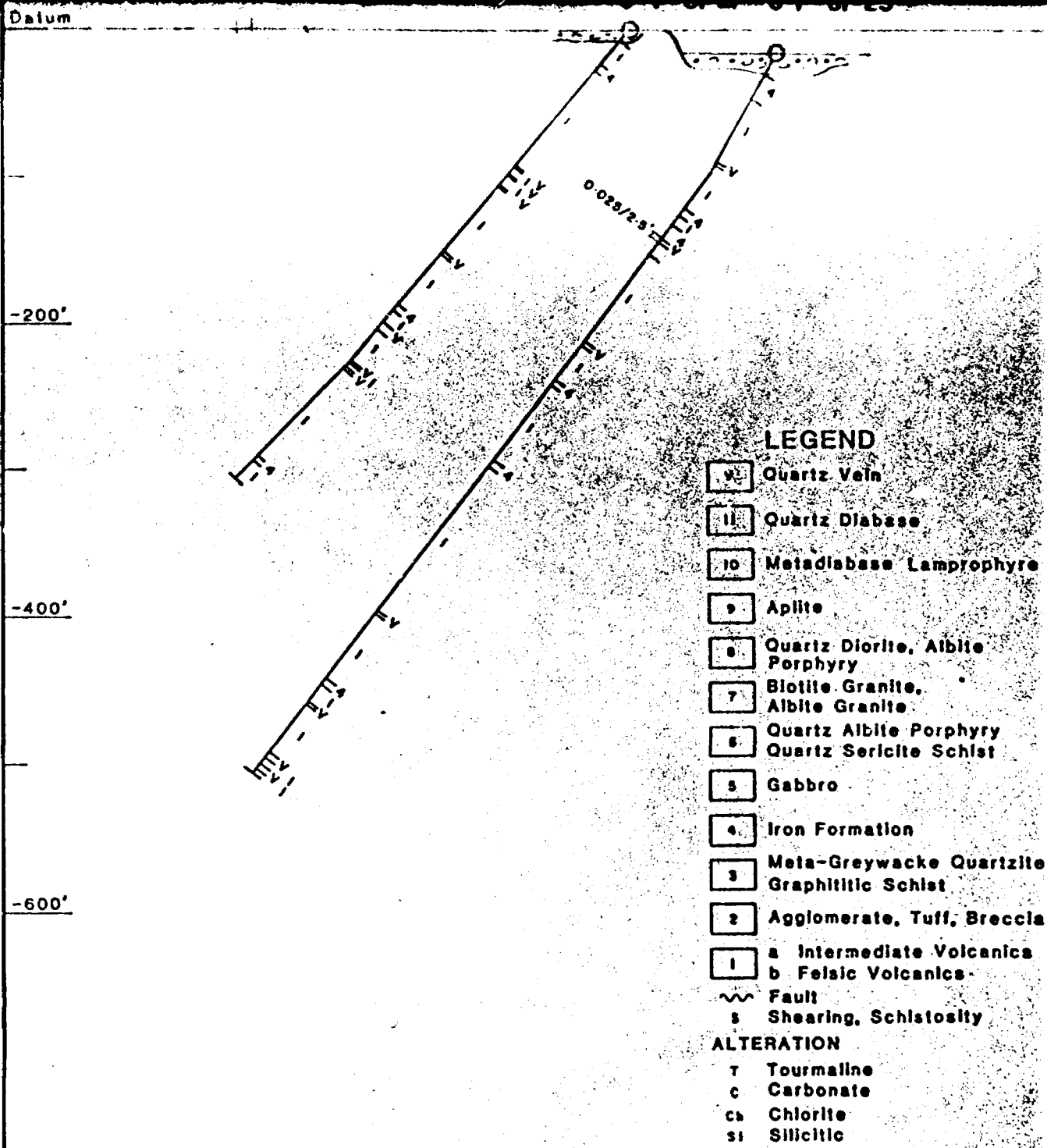
DIAMOND DRILL RECORD

PROPERTY Callant-Buckle Creek Option

HOLE NO. 23

SHEET NO. 4

	SAMPLE NO.	FROM	TO	THICK	OZ/T A"
pyrrhotite and pyrite, 60-65d to C.A.					
544.7-546.1 same as above only 20-25% quartz material	5686	544.7	546.1	1.4'	Tr.
546.1-549.2, same as above (541.0-544.7)					
549.2-550.5 3-5% pyrite, minor chalcopyrite, slightly sericitized, in places, minor tourmaline	5687	549.2	550.5	1.3'	.01
550.5-569.1, andesite as above (265.7-335.5)					
569.1-575.0, silicified and carbonatized section 1-3% pyrite, minor pyrrhotite, throughout with minor sericite					
569.5-571.7 as above (569.1-575.0)	5688	569.5	571.7	2.2'	Tr.
571.7-589.4 medium green, fine grained, moderately sheared and contorted, with carbonate stringers, 1-3% pyrite with carbonate					
589.4-592.6, shear zone with white quartz stringers, veinlets and carbonate veins, 1% pyrite, minor tourmaline	5689	589.4	592.6	3.2'	.005
592.6-599.2, as above (571.7-589.4)					
599.2-600.9 section of quartz and carbonate veins 15% quartz	5680	599.2	600.9	1.7'	Tr.
600.9-606.0 as above (571.7-589.4)					
606.0 END OF HOLE.					



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry, Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics, b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- c Carbonate
- ch Chlorite
- si Silicite

SULPHIDES

- Py Pyrite
- Pe Pyrrhotite
- Cp Chalcopyrite
- Ss Sphalerite
- Go Galena
- As Arsenopyrite

0.25/3.0 Au oz/ton/core length (feet)

1" = 100'

GALLANT GOLD MINES LTD.		
PICKLE CROW OPTION, ONTARIO PICKLE LAKE AREA, ONTARIO VERTICAL SECTION		
D.D.H. G-P-81-21,23		
LOOKING WEST		
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY Albany River Gold Corp. HOLE NO. G-P-81-24 SHEET NO. 1

LOCATION Albany River Shaft 2000

BEARING Grd S DIP -50d

STARTED June 18/81

LATITUDE 29+50 N

TESTS:

COMPLETED June 19/81

DEPARTURE 46+00 E

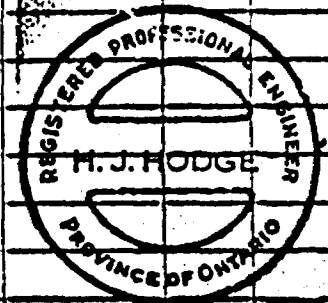
FOOTAGE	DIP	BEARING
200	48d	
406	45d	

ULTIMATE DEPTH 406'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	10.0	CASING					
10.0	28.6	ANDESITE, medium green colour, minor tourmaline minor pea-green alteration.					
		12.2-13.0 FAULT					
		13.0-17.3 andesite as above (10.0 -12.2)					
		17.3-18.4 well contorted section of tourmaline, minor magnetite, carbonate less than 1% pyrite and pyrrhotite	5691	17.3	18.4	1.1'	Tr.
		18.4-28.6 andesite as above (10.0-12.2) occasion- al quartz stringers with or without pyrite and tourmaline.					
28.6	39.3	BASIC DYKE dark green, white flecks of carbonate, massive, fine grained.					
39.3	124.4	ANDESITE medium green colour, moderately to well sheared with quartz veins and stringers, carbon- ate stringers, moderately sericitized, less than 1% pyrite banding 50-55d to C.A. some dyke in- clusions.					



DIAMOND DRILL RECORD

PROPERTY WILLIAMSBURG DRILL CO. INC.

HOLE NO. 24

SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
		39.3-41.1, as above more quartz	5692	39.3	41.1	1.8'	.005
		48.4-85.2, light-medium green, slightly sheared with carbonate and minor quartz stringers, fine grained.					
		85.2-86.1, quartz (chert?) vein, minor chlorite					
		90% quartz	5693	85.2	86.1	0.9'	Tr.
		86.1-124.4, (48.4-85.2) occasional chert sections with 5-10% pyrrhotite, minor pyrite trace chalcopyrite.					
124.4	126.1	IRON FORMATION, weak 3-5% magnetite, 5-10% pyrrhotite, pyrite minor chalcopyrite and sphalerite.	5694	124.4	126.1	1.7'	Tr.
126.1	143.1	ANDESITE medium green colour, moderately to well sheared with carbonate, minor pea-green alteration slightly sericitized banded at 50-55d to C.A.					
143.1	146.0	IRON FORMATION interbedded magnetite and chert, 10-15% magnetite 30% pyrrhotite, minor pyrite chalcopyrite, sphalerite, very minor ARSENOPYRITE, occasional quartz veins about 5% banded 45-50d to C.A.	5695	143.1	146.0	2.9'	Tr.
146.0	152.7	ANDESITE as above (126.1-143.1)					
152.7	154.3	IRON FORMATION very weak less than 1% magnetite mostly chert and chlorite.					
154.3	176.4	ANDESITE as above (126.1-143.1)					
176.4	179.5	IRON FORMATION interbedded chert & magnetite, 10-15% magnetite, 1-3% pyrrhotite, well sheared and					

DIAMOND DRILL RECORD

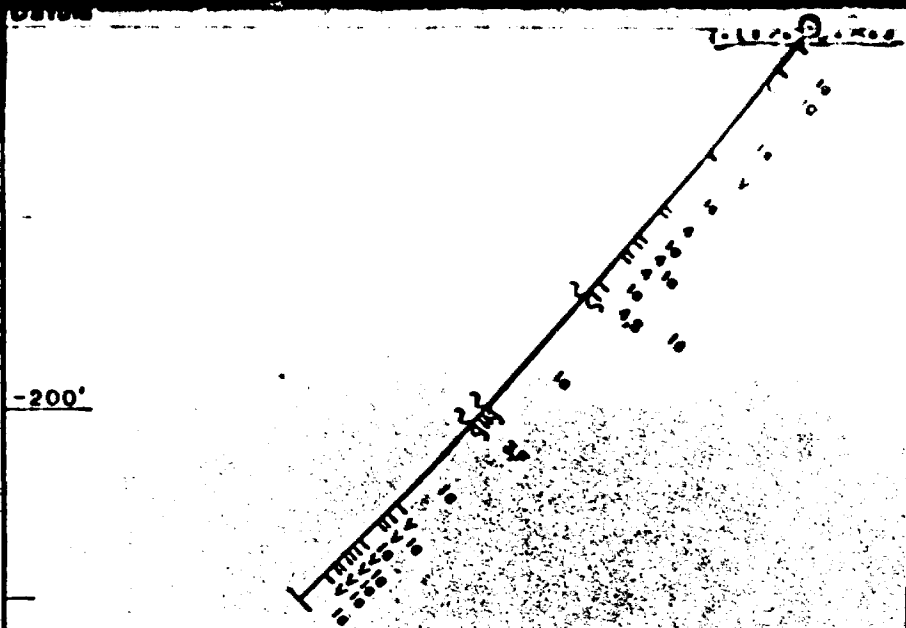
PROPERTY _____ HOLE NO. 24 SHEET NO. 3

		DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
		moderately broken.					
179.5	406.0	ANDESITE, medium green colour, fine grained, massive to slightly sheared.					
		179.5-186.0 well sheared and moderately broken					
		186.0-224. as above (179.5-406.0)					
		224.-154.3 porphyritic andesite? gradual change to medium grained, medium green, massive, dark mineral patches-(hornblende? tourmaline?)					
		154.3-155.9 FAULT					
		255.9-266.0 gradation to andesite as above (179.5-406.0)					
		266.0-276.0 FAULT well broken and sheared (270-271-GRAPHITIC SCHIST)					
		276.0-334.1, medium green colour, moderately sheared with carbonate stringers to well sheared shearing 55-60d to C.A. Occasional quartz stringers.					
		334.1-335.8 several 1/4" milky white quartz veinlets angular blebs of pyrite 1-3%	5696	334.1	335.8	1.7'	Tr.
		335.8-338.7, 1-3% pyrite blebs. 1.5' fragmented quartz vein minor tourmaline banding 45-50d to C.A.	5697	335.8	338.7	2.9'	Tr.
		338.7-345.8 as above (179.5-406.0)					

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 24 SHEET NO. 4

Description	SAMPLE NO.	START	STOP	DEPTH	Oz./ft. AU
345.8-347.5 quartz-carbonate zone minor tourma- line and carbonate stringers, less than 1% pyrite.	5698	345.8	347.5	1.7'	Tr.
347.5-349.7 as above (179.5-406.0)					
349.7-351.3, quartz veinlets and carbonate str- ingers 25% quartz	5699	349.7	351.3	1.6'	Tr.
351.3-354.5, as above (179.5-406.0)					
354.5-357.9 as above (349.7-351.3) minor tourm- aline	5700	354.5	357.9	3.4'	Tr.
357.9-360.6 as above (345.8-347.5)	8401	357.9	360.6	2.7'	Tr.
360.6-364.0 two slightly pinkish quartz veins 4" and 10" moderately sheared, with carbonate stringers	8402	360.6	364.0	3.4'	Tr.
364.0-370.1 medium to dark green colour, slightly sheared with carbonate.					
370.1-371.3, quartz veinlets and carbonate stringers 75% milky white quartz.	8403	370.1	371.3	1.2'	Tr.
371.3- 378.6 as above (364.0-370.1)					
378.6-382.5 well sheared with quartz and carbon- ate stringers, two milky white quartz veins at 60-65d to C.A., 10-15% quartz	8404	378.6	382.5	3.9'	Tr.
382.5-386.9, medium green colour, flecked appear- ance, slightly sheared.					
386.9-387.5 milky white quartz vein (90%)	8405	386.9	387.5	0.6'	Tr.



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - Fault
 - Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicitic

SULPHIDES

- Py Pyrite
- Pb Pyrrhotite
- Cu Chalcopyrite
- Zn Sphalerite
- Gd Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-24

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge, P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. G-P-91-25 SHEET NO. _____

LOCATION _____

DATE _____

STARTED June 19/81

LATITUDE 29+50 N

TESTS:

COMPLETED June 20/81

DEPARTURE 48+00 E

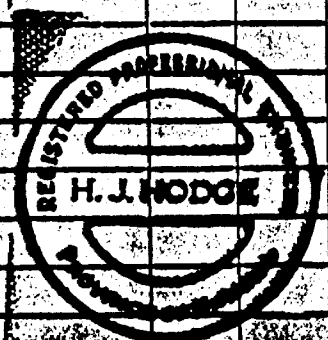
FOOTAGE	DIP	HEARING
206	49d	
406	46d	

ULTIMATE DEPTH 406'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	20.0	CASING					
20.0	156.0	ANDESITE medium green colour, fine grained, slightly sheared with mainly feldspathic fracture fillings, minor carbonate and quartz stringers.					
		23.9-25.1 section of feldspar with minor carbonate fracture fillings less than 1% pyrrhotite, pyrite, minor chalcopyrite	8406	23.9	25.1	1.2'	Tr.
		25.1-140.5 andesite as above (20.0-23.9) massive to slightly sheared, slightly to well sericitized in sections.					
		140.5-140.6 iron formation, 50% magnetite 50% chert.					
		140.6-156.0 andesite, medium green colour, slightly to moderately sheared with carbonate stringers, carbonate and magnetite. banding 40-45d to C.A. less than 1% pyrrhotite, pyrite and chalcopyrite with magnetite					
156.0	160.1	IRON FORMATION 1.3% magnetite less than 1% pyrite, pyrrhotite & minor chalcopyrite, mainly andesite					



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 25

SHEET NO. 2

			SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
		overall.					
		156.0-157.4 interbedded magnetite and chert with brecciated quartz-carbonate vein 3-5% magnetite 10-15% pyrite, pyrrhotite chalcopyrite banding 60d to C.A.	8407	156.0	157.4	1.4'	Tr.
160.1	196.0	ANDESITE medium green to grey-green colour slightly to moderately sheared with carbonate stringers banded 45-50d to C.A. feldspar phenocrysts? occurring frequently, minor feldspar stringers.					
196.0	199.1	IRON FORMATION weakly magnetic banded sections at 65-70d to C.A. 1-3% magnetite overall. 197.7-199.1 3-5% magnetite, carbonate stringers and chert, 1-3% pyrite, pyrrhotite, minor chalcopyrite sphalerite	8408	197.7	199.1	1.4'	Tr.
199.1	204.3	ANDESITE as above (160.1-196.0)					
204.3	206.0	IRON FORMATION as above (196.0-199.1) minor arsenopyrite	8450	204.3	206.0	1.7'	.005
206.0	250.6	ANDESITE DACITE? as above (160.1-196.7) occasional minor magnetite bands. 223.3-225.4 moderately sheared section, minor quartz stringers, less than 1% pyrite? pyrrhotite	8409	223.3	225.4	2.1'	Tr.
		225.4-228.1 as above (160.1-196.0) 228.1-229.3, 1% pyrrhotite, minor chalcopyrite, quartz stringers.	8410	228.1	229.3	1.2'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. _____ SHEET NO. 3

		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		229.3-232.2 DACITE? moderately sheared with carbonate and dark alteration mineral banded 50-55d to C.A.					
		232.2-233.0 quartz-carbonate stringers, 1-3% pyrite and minor sphalerite?	8411	232.2	233.0	0.8'	Tr.
		233.0-239.3 as above (199.3-232.2) with iron formation 236.5 to 237.0, 10-15% pyrite and pyrrhotite	8414	236.5	237.0	0.5'	Tr.
		239.3-240.3 slightly more sheared	8412	239.3	240.3	1.0'	Tr.
		240.3-244.3 as above (299.3-232.2)					
		244.3-245.9 quartz-carbonate stringers, less than 1% disseminated pyrite	8413	244.3	245.9	1.6'	Tr.
250.6	257.2	GRAPHITE SCHIST. dark grey to black massive graphite, slightly sheared with minor carbonate schistose texture at 55-60d to C.A.					
		251.4-253.7 massive pyrite with minor sphalerite, graphitic vuggy sections	8415	251.4	253.7	2.3'	Tr.
		253.7-254.8 graphite schist as above light grey, minor quartz stringers	8416	253.7	254.8	1.1'	Tr.
		254.8-257.2, graphite schist as above (250.6-257.2) light to dark grey.					
257.2	262.5	DACITE? ANDESITE ALTERED? slightly sheared with carbonate, minor graphite. medium light green colour sericitic.					

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 25 SHEET NO. 4

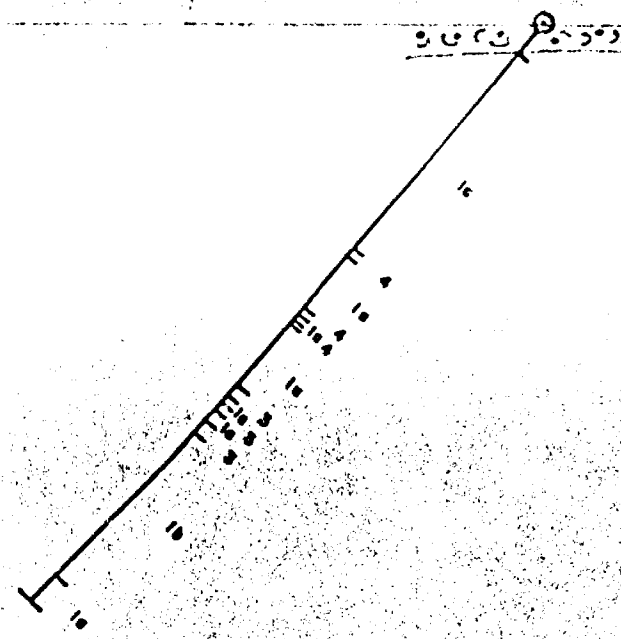
			SAMPLE NO	FROM	TO	FEET	Oz/T Au
262.6	266.0	GRAPHITE SCHIST as above (250.6-257.2) 3-5% pyrite minor sphalerite with vuggy sections	8417	262.6	266.0	3.4'	Tr.
266.0	275.9	DACITE? (ALTERED ANDESITE?) medium green, fine grained, well sheared and contorted with carbonate and sericitie?					
275.9	283.3	GRAPHITE SCHIST as above (250.6-257.2) 279.7-283.3 well SHEARED AND BROKEN - FAULTED? minor carbonate and quartz-carbonate stringers less than 1% pyrite.	8418	279.7	283.3	3.6'	Tr.
283.3	388.7	DACITE? Altered andesite, medium green to light green fine grained slightly sheared with carbon- ate, sericitized. 306.4-308.5 moderately sheared with quartz-car- bonate stringers.	8419	306.4	308.5	2.1'	Tr.
		308.5-331.2 as above (283.3-306.4) moderately sheared with carbonate and quartz-carbonate, fractures fill with chlorite					
		331.2-331.6 milky white quartz veinlet less than 1% chalcoppyrite, 35% quartz	8420	331.2	331.6	0.4'	Tr.
		331.6-372.9 as above (283.3-306.4) moderately to well sheared with carbonate, quartz and quartz- carbonate, stringers, dark brown alteration in places.					
		372.9-373.5, quartz stringers	8421	372.9	373.5	0.6'	Tr.

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albitic Granite
 - 6 Quartz Albitic Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicitic

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- Ch Chalcopyrite
- Sp Sphalerite
- Gal Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-25

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge, P.Eng. Map No.		

DIAMOND DRILL RECORD

PROPERTY Callaway - Double Crow Gold HOLE NO. G-P-81-26 SHEET NO. 1

LOCATION Albany Twp. 35.5 N. 10.0 W.

MARKING Q118 S. D11 -50d

STARTED June 20/81

LATITUDE 29+50 N

TESTS:

COMPLETED June 21/81

DEPARTURE 42+00 E

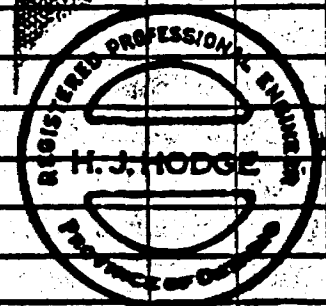
FOOTAGE	DIP	BEARING
200	50d	
416	45d	

ULTIMATE DEPTH 416.0

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	6.0	CASING					
6.0	34.0	ANDESITE medium green colour, moderately sheared with quartz stringers, fine grained, mottled appearance due to silicification.					
		8.5- 9.8, SHEAR ZONE, slightly broken vuggy calcite stringer	8424	8.5	9.8	1.3'	Tr.
		9.8-21.0 as above (6.0-8.5)					
		21.0-21.3 vuggy quartz carbonate veinlet finely disseminated pyrite, less than 1%	8425	21.0	21.3	0.3'	Tr.
		21.0-34.0,					
34.0	300.3	DACITE? ALTERED ANDESITE? light to medium pea-green, fine grained, moderately sheared with quartz stringers					
		39.8-41.0, SHEAR ZONE with 1-3% pyrrhotite and minor chalcopyrite, minor quartz-carbonate veinlets.	8426	39.8	41.0	1.2'	.005
		41.0-48.9 as above (34.0-39.8)					
		48.9-50.8 sheared and slightly broken vuggy calcite section, with quartz veins 15-20% quartz	8427	48.9	50.8	1.9'	Tr.



DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 26 SWEEP NO. 2

DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
50.8-62.3, andesite medium green, fine grained, massive to slightly sheared, occasional quartz stringers,					
62.3-65.4 well sheared and altered, less than 1% finely disseminated pyrite, occasional chalcopyrite.	8428	62.3	65.4	3.1'	Tr.
65.4-66.0 as above (34.0-39.8)					
66.0-66.9 quartz stringers, tourmaline	8429	66.0	66.9	0.9'	Tr.
66.9-78.3, as above (34.0-39.8) well sheared banding 85-90a to C.A.					
78.3-79.2, slightly sheared and contorted 1-3% pyrrhotite and pyrite	8430	78.3	79.2	0.9'	Tr.
79.2-89.7 as above (34.0-39.8)					
89.7-90.1 as above (62.3-65.4)	8431	89.7	90.1	0.3'	Tr.
90.1-145.0, as above (34.0-39.8) moderately to well sheared.					
145.0-147.2, several quartz veinlets, (50% quartz) less than 1% finely disseminated pyrite occasional chalcopyrite.	8432	145.0	147.2	2.2'	Tr.
147.2-155.1 as above (34.0-39.8)					
155.1-157.8 well contorted quartz-carbonate veinlets with tourmaline and sericitic?	8433	155.1	157.8	2.7'	Tr.
157.8-161.8, as above (34.0-39.8) with one narrow section of dark green DYKE?					
161.8-162.3 vuggy quartz veinlet	8434	161.8	162.3	0.5'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 26

SHEET NO. 2

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
	162.3-196.2 as above (34.0-39.8)					
	196.2-200.3 three well contorted? fractured quartz-carbonate zones	8435	196.2	200.3	4.1'	Tr.
	200.3-218.0 DACITE? ALTERED ANDESITE? light grey green colour, fine grained, slightly sheared with quartz and carbonate stringers.					
	218.0-219.2, as above with two narrow bands of magnetite and calcareous chert (1" wide bands)					
	1% pyrite, minor chalcopyrite (200.3-218.0)	8436	218.0	219.2	1.2'	Tr.
	219.2-231.2 as above (200.3-218.0)					
	231.2-232.9 SHEAR ZONE with carbonate and minor quartz, 1% pyrite	8437	231.2	232.9	1.7'	Tr.
	232.9-300.3 as above (200.3-218.0) occasional massive feldspar?					
300.3	301.1 GRAPHITE SCHIST blackish colour less than 1% magnetite. well banded 55-60d to C.A. well sheared minor quartz breccia sections less than 1% pyrite.					
301.1	303.8 DACITE? (ALTERED ANDESITE?) WELL FAULTED AND BROKEN fine grained, medium grey-green colour moderately calcareous, in minor graphitic sections, sericitic, talc?					
303.8	309.3 GRAPHITE SCHIST WELL FAULTED AND BROKEN less than 1% pyrite, minor magnetite, slightly calcareous.					

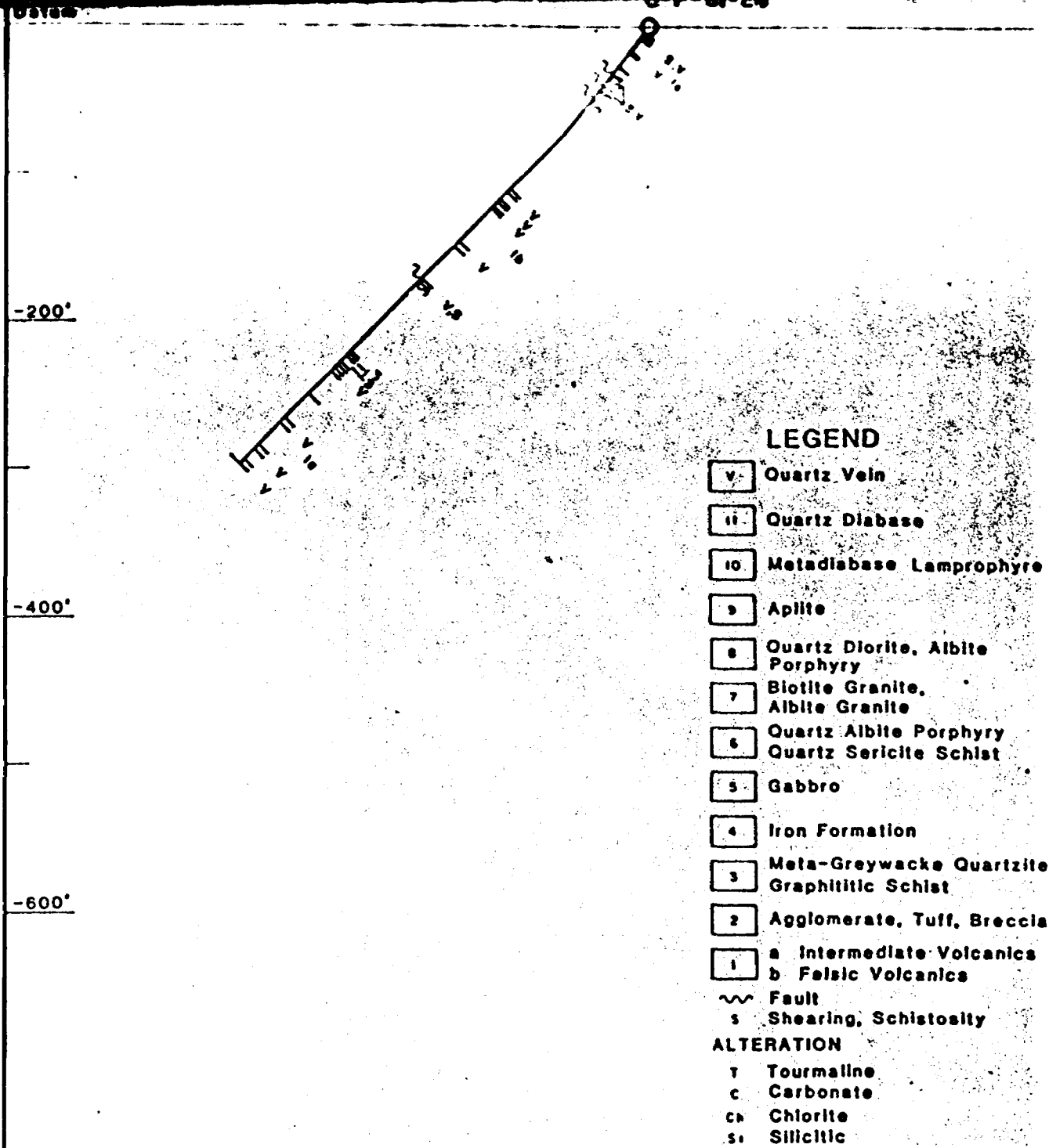
DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 24

MINES NO. 1

		DEPTH	TO	FEET	Oz/T Au	
	303.8-307.0, as above	8439	303.8	307.0	3.2'	Tr.
	307.0-309.3 as above	8440	307.0	309.3	2.3'	Tr.
309.3	342.6	DACITE? ALTERED ANDESITE? as above (301.1-303.8)				
	312.2-312.7 milky, white quartz veinlet 50% quartz	8441	312.2	312.7	0.5'	Tr.
	312.7-316.2, as above (200.3-218.0)					
	316.7-317.3, quartz stringer (50% quartz)	8442	316.7	317.3	0.6'	Tr.
	317.3-342.7 FAULT? well sheared, moderately broken shearing 70d to C.A. otherwise as above.					
342.6	416.0	ANDESITE medium green colour, fine grained, well sheared and broken with quartz-carbonate veinlets, shearing 65-70d to C.A.				
	342.6-346.3, as above (342.6-416.0)	8443	342.6	346.3	3.7'	Tr.
	346.3-372.7 as above only moderately sheared (342.6-416.0)					
	372.7-373.6, slightly contorted siliceous section.	8444	372.7	373.5	0.8'	Tr.
	373.6-376.8, andesite as above					
	376.8-377.2, milky white quartz vein, 80% quartz	8445	376.8	377.2	0.4'	Tr.
	377.2-379.3 andesite as above.					
	379.3-380.7 numerous quartz veinlets, 25% quartz vein materials	8446	379.3	380.7	1.4'	Tr.
	380.7-391.6 andesite as above, massive to slightly fractured.					



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics
b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ch Chlorite
 - si Silicific

SULPHIDES

- Py Pyrite
- Ps Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Go Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-26

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. GE-81-27 SHEET NO. _____

LOCATION _____

LATITUDE 29+50 S

DEPARTURE 39+80 E

ELEVATION _____

TESTS: _____

FOOTAGE	DIP	BEARING
200	50d	
400	45d	

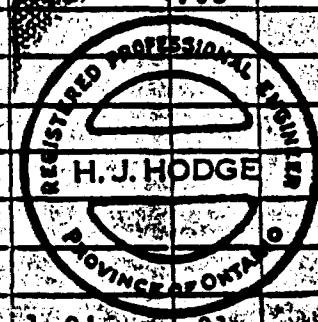
STARTED June 21/81

COMPLETED June 22/81

ULTIMATE DEPTH 406.0'

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	5.0	CASING					
5.0	24.2	IRON FORMATION, massive sulphides, pyrrhotite, minor pyrite and occasional chalcovpyrite, glassy fragmented chert and quartz stringers and blebs, minor chlorite alteration. 1-3% magnetite.					
		5.0-10.0 as above only milky white quartz veinlet at 5.0 , very weak iron formation at 10.0	8451	5.0	10.0	5.0'	.005
		10.0-15.0 as above (5.0-24.2)	8452	10.0	15.0	5.0'	.005
		15.0-20.0 iron formation, lack of distinct banding, chert, 5-10% magnetite 10-15% pyrrhotite	8453	15.0	20.0	5.0'	.03
		20.0-24.2, as above, more distinct (15.0-20.0) banding 45-50 d.to C.A. some massive feldspar.	8454	20.0	24.2	4.2'	.05
24.2	56.3	ANDESITE, GRADING TO DACITE? medium to light green colour, slightly sheared with carbonate stringers, & occasional quartz stringers and sections of massive feldspar and minor tourmaline.					
		24.2-25.2 andesite as above, minor quartz veinlet and cherty section with minor magnetite, 1-3% pyrite.	8455	24.2	25.2	1.0'	.01



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 37

SHEET NO. 2

		SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
	54.8-56.3, well sheared with feldspar, minor quartz and tourmaline, 1-3% pyrite	8456	54.8	56.3	1.5'	Tr.
56.3	200.2 DACITE? (ALTERED ANDESITE ?) medium to light grey-green colour, well sheared with feldspar stringers and veinlets, minor quartz stringers and minor carbonate stringers, sericitized in places.					
	86.7-87.1 milky white quartz veinlet	8457	86.7	87.1	0.4'	Tr.
	87.1-93.7, DACITE? as above (56.3-86.7)					
	93.7-94.1 milky white quartz-carbonate veinlet	8458	93.7	94.1	0.4'	Tr.
	94.1-96.5 DACITE? as above (56.3-86.7)					
	96.5-96.9 milky white carbonate vein					
	96.9-152.0, DACITE? as above (56.3-86.7)	8459	152.0	153.9	1.9'	Tr.
	152.0-153.9 well sheared and sericitized section					
	153.9-163.4, DACITE? as above (56.3-86.7)					
	163.4-164.2, fractured and fragmented quartz vein. fractures filled with carbonate, less than 1% finely disseminated pyrrhotite, occasional magnetite.	8460	163.4	164.2	0.8'	Tr.
	164.2-178.8, DACITE? as above, becoming brecciated with 1% disseminated pyrrhotite and halo? of magnetite? around fragments?					
	178.8-183.5 DACITE? ALTERED ANDESITE? well sheared with carbonate, feldspar and quartz, 1% disseminated pyrrhotite, minor magnetite?	8461	178.8	183.5	4.7'	Tr.

STAMMONS DRILL RECORD

PROPERTY Callahan, Middle Creek, Ontario HOLE NO. 27 SHEET NO. 3

		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		188.5-200.2 DACITE? as above, only moderately fractured and brecciated in places, (56.3-86.4) banding 75-80d to C.A.					
200.2	201.5	IRON FORMATION, interbanded magnetite, chert, and dacite fragments, 1% pyrrhotite and occasional chalcopryite, less than 1% magnetite, banded 70 d to C.A.	8462	200.2	201.5	1.3'	Tr.
201.5	276.9	DACITE? (ALTERED ANDESITE?), medium grey-green colour, fine grained, siliceous, moderately to well fractured and sericitized with feldspar, quartz and carbonate, occasional minor pyrrhotite banded at 45-50d to C.A. well brecciated					
		237.5-238.3, well silicified shear zone with carbonate and feldspar, 3-5% pyrrhotite and minor chalcopryite	8463	237.5	238.3	0.8'	Tr.
		238.5-264.1 as above (201.5-237.5), massive to slightly sheared.					
		264.1-264.4 Graphite with carbonate stringers, less than 1% pyrrhotite and occasional chalcopryite.					
		264.4-276.9, DACITE? medium green-grey colour, fine grained moderately to well sheared with feldspar, carbonate and quartz.					

DIAMOND DRILL RECORD

PROPERTY Callants- Wick's Crow Option HOLE NO. 27 SHEET NO. 1

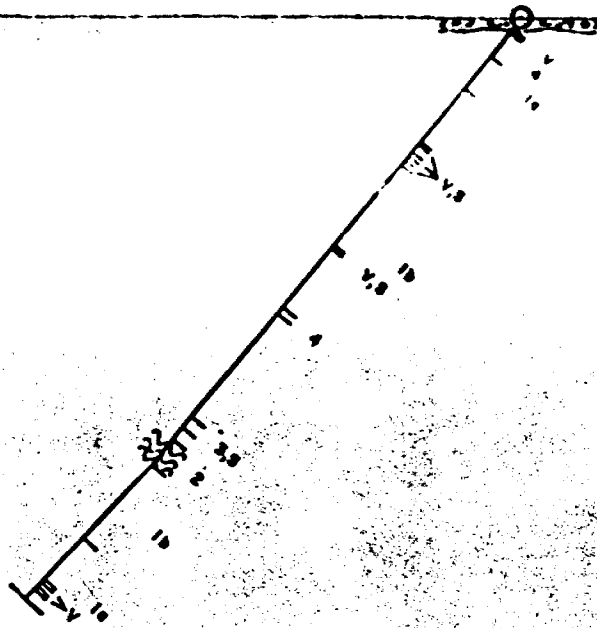
FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Av
276.9	282.8	GRAPHITE SCHIST, black with minor white carbonate stringers, to light grey and well banded. less than 1% pyrrhotite and occasional sphalerite banding 60d to C.A.					
		276.9-278.6 graphite schist as above, 1-3% pyrrhotite, and occasional sphalerite.	8464	276.9	278.6	1.7'	Tr.
		278.6-282.8 graphite schist as above.					
282.8	287.0	DACITE? ALTERED ANDESITE? as above (264.4-276.9)					
287.0	294.2	GRAPHITE SCHIST? interbanded graphite and DACITE, well to moderately fractured and well sheared with carbonate stringers, 35% Graphite.					
294.2	302.0	DACITE? BRECCIA? medium grey green colour, fine grained, slightly sheared.					
		296.0-302.0 minor faulting slightly to moderately broken.					
302.0	362.0	DACITE? ALTERED ANDESITE? medium grey-green colour, fine grained, moderately to well sheared and banded, with carbonate stringers and sericitic alteration. slightly to moderately broken					
		FAULT?					
362.0	406.0	ANDESITE, medium green colour, fine grained, slightly-moderately sheared with carbonate stringers, moderately broken in places.					
		380.0-383.3, PORPHYRITIC ANDESITE? medium green colour with white feldspar phenocrysts & quartz?					

Datum

-200'

-400'

-600'



LEGEND

- 11 Quartz Vein
 - 10 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicic

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C₁ Chalcopyrite
- S₁ Sphalerite
- G₁ Galena
- A₁ Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-27

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmeax
Author: H.J. Hodge P.Eng.	Map No. 1	

DIAMOND DRILL RECORD

PROPERTY _____ HOLES NO. G-11-81-28 SHEET NO. 1

LOCATION ALBERTA TYPING Grid S D12 59d

STARTED June 22/81

LATITUDE 28+00 N

TESTS:

COMPLETED June 23/81

DEPARTURE 25+00 S

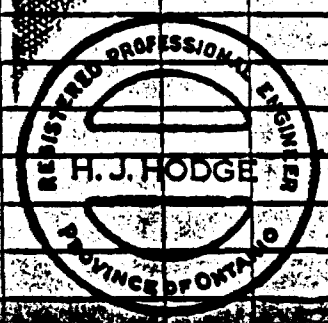
FOOTAGE	DIP	BEARING
400	-50d	

ULTIMATE DEPTH 406'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	5.0	CASING					
5.0	29.9	DACITE FLOW? BRECCIA, light grey blue to cream coloured fragments (30.4-8), angular fragments to 1" of core length, pale green Dacitic matrix, fine grained, less than 1% pyrite, slightly broken with minor vuggy sections, occasional cherty section to 1" of core length.					
29.9	32.9	IRON FORMATION, very weak, mainly grey-blue chert, 1-3% pyrrhotite, pyrite.					
32.9	36.5	RHYO-DACITE BRECCIA, pyroclastic, fragmental, light grey fragments, pale green-grey matrix, fine grained, slightly sheared, with quartz stringers, 1-3% pyrrhotite, minor pyrite, chalcopyrite. fragments to 2"					
36.5	39.6	ANDESITE BRECCIA - porphyritic texture, dark green matrix, pale grey to cream coloured fragments, slightly calcareous, small angular fragments to 1/4" of core length.					



DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 42 SHEET NO. 2

DEPTH	DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T	AU
39.6	42.9	PHYO-DACITE BRECCIA as above (32.9-36.5), 5-8%						
		pyrrhotite, pyrite and minor chalcopyrite, 30%						
		quartz vein material	8467	39.6	42.9	3.3'	Tr.	
42.9	48.2	ANDESITE BRECCIA, as above (36.5-39.6)	8468	45.0	46.7	1.7'	Tr.	
		45.0-46.7 5-8% pyrrhotite and pyrite						
48.2	52.9	RHYOLITE BRECCIA, pale grey matrix, slightly paler						
		fragments, fine grained, up to 1" fragments el-						
		ongated along core banding, 10-15% fragments.						
		50.8-52.0, 35-40% pyrite and minor pyrrhotite,						
		6" section of laminated chert.	8469	50.8	52.0	1.2'	Tr.	
52.9	56.4	ANDESITE BRECCIA? as above except 3-5% fragments						
		(42.9-48.2)						
56.4	62.0	RHYOLITE BRECCIA, as above (48.2-52.9)						
62.0	62.6	FELDSPAR PORPHYRY, medium grey fine grained matrix,						
		light grey to white feldspar phenocrysts, less						
		than 1% disseminated pyrite and minor chlorite						
		alteration in matrix,						
62.6	64.9	ANDESITE, medium green colour, fine grained, well						
		sheared and altered with brown biotite, carbonate						
		stringer. (META SEDIMENT?)						
64.9	65.0	FELDSPAR PORPHYRY, as above (62.0-62.6)						
65.0	96.0	RHYOLITE BRECCIA, as above (48.2-52.9), 1% pyrite						
		and pyrrhotite. occasional quartz blebs.						

DIAMOND DRILL RECORD

PROPERTY Callant-Nickle, Crow, Ontario

HOLE NO. 28

SHEET NO. 3

DEPTH	DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T
							Au
96.0	109.7	ANDESITE (TUFF), medium green, slightly sheared with carbonate stringers.					
		105.9-107.1 quartz stringers	8470	105.9	107.1	1.2'	Tr.
109.7	157.4	DACITE BRECCIA, highly fractured, with epidote stringers, minor cream grey fragments, irregular narrow zones of brown biotite alteration, less than 1% pyrite, minor chalcopyrite. occasional quartz stringers, slightly sericitized.					
157.4	159.0	FELDSPAR PORPHYRY, dark grey-green colour with lighter grey phenocrysts. medium grained matrix, 1-3% chloritic alteration in matrix. 1% disseminated pyrite.					
159.0	169.2	ANDESITE (TUFF), medium green colour, fine grained, well fractured and contorted with quartz sericite alteration stringers, quartz blebs, and minor carbonate stringers.					
		162.0-162.9 shear zone, moderately broken					
		162.9-167.4 as above (159.0-169.2)					
		167.4-168.2, MINOR FAULT ZONE, well broken					
		168.2-169.2 andesite as above.					
169.2	175.3	IRON FORMATION, massive magnetite, minor chert, almost no evidence of banding, 10-15% pyrite.					
		169.8-173.6, as above (169.2-175.3)	8471	169.8	173.6	3.8'	.005
		173.6-175.3, weak I.F.					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 29

DEPTH NO. 4

DEPTH	DESCRIPTION	START	END	THICKNESS	GRAVITY
175.3 - 208.6	ANDESITE (TUFF), as above (159.0-169.2)				
	180.2-184.6 sulphide alteration zone, highly silicified and carbonatized with dark grey and green chlorite alteration, 5-8% disseminated pyrite.	8472	180.2 - 184.6	4.4'	Tr.
	184.6-187.5, as above (180.2-184.6)	8473	184.6 - 187.5	2.9'	.08
	187.5-200.4 andesite tuff as above (175.3-208.6)				
	200.4-202.6, well sheared and slightly broken banded 60-65d to C.A. quartz carbonate and veinlets, 20% vein material. less than 1% pyrite.	8474	200.4 - 202.6	2.2'	.005
	202.6-208.6, andesite (TUFF), as above only more chloritic and absence of sericitic alteration (175.3-208.6)				
208.6-255.0	ANDESITE, medium green colour, fine grained massive to well fractured and moderately to well broken, FAULT ZONE? fractures with carbonate and quartz, occasional quartz and carbonate veinlets.				
	222.4-222.9- quartz veinlet 25% quartz vein material	8475	222.4 - 222.9	0.5'	Tr.
	222.9-230.7 andesite as above (208.6-255.0)				
	230.7-231.0 quartz veinlet	8476	230.7 - 231.0	0.3'	.005
	321.0-233.9, andesite as above (208.6-255.0)				
	233.9-236.0 minor FAULT ZONE				

DIAMOND DRILL RECORD

PROPERTY NO. _____

HOLE NO. _____

DEPTH NO. _____

		DEPTH	DIAMETER	REMARKS	SAMPLE NO.	START	END	THICKNESS	GRAIN SIZE
		FEET	INCHES			FEET	FEET	FEET	MM.
				243.0-243.4 quartz carbonate vein with minor tourmaline	8477	243.0	243.4	0.4'	Tr.
				243.4-244.8 as above (208.6-222.4)					
				244.8-246.2 FAULT, well broken					
				246.2-255.0 andesite as above (208.6-222.4)					
255.0	265.3			ANDESITE (TUFF), medium green colour, fine grained, well fractured with carbonate stringers, large zones of brown biotite sericite alteration, minor quartz veinlets and stringers.					
265.3	267.0			GRAPHITE SCHIST, massive dark grey to black graphite, minor contorted carbonate stringers, 3-5% pyrrhotite, minor quartz carbonate stringers.	8478	265.3	267.0	1.7'	Tr.
267.0	270.3			ANDESITE (TUFF), as above (255.0-265.3) only slightly fractured.					
270.3	275.3			INTERMEDIATE DYKE, medium grey-green fine grained, massive.					
275.3	280.5			GRAPHITE SCHIST, massive dark grey to black graphite, minor fractures with carbonate, 3-5% pyrrhotite pyrite, and minor chalcopyrite (277.4-278.4) FAULT, very well broken	8479	275.3	280.5	5.2'	Tr.
280.5	326.0			DACITE BRECCIA, minor stretched irregular shaped fragments of pale to medium grey colour. fine grained matrix moderately fractured with quartz and quartz-carbonate stringers. narrow zones of					

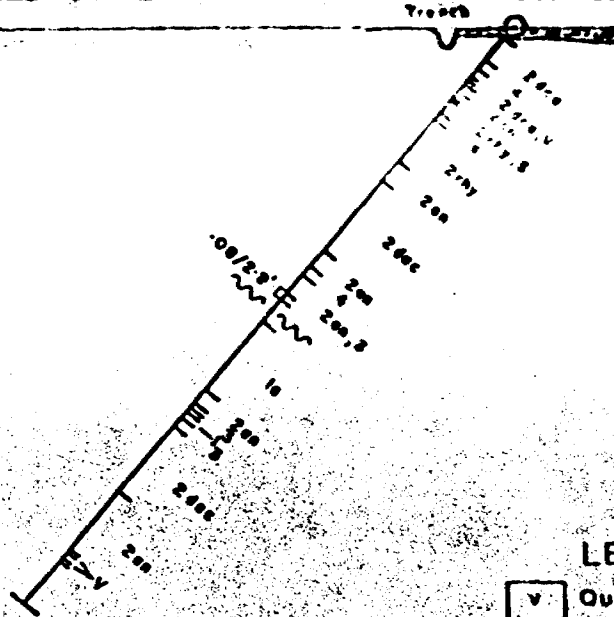
Datum

Trench

-200'

-400'

-600'



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry
Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite
Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- t Tourmaline
- c Carbonate
- ch Chlorite
- si Silicite

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cu Chalcopyrite
- Sz Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

 VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-28

LOOKING WEST

Date: May, 1981 Scale: 1" = 100' Drawn: gmes

Author: H.J. Hodge P.Eng. Map No. 1000

LOCATION # 3 Shaft Area

BEARING Grid S DIP -50d

STARTED July 16/81

LATITUDE

PROSPTS:

COMPLETED July 17/81

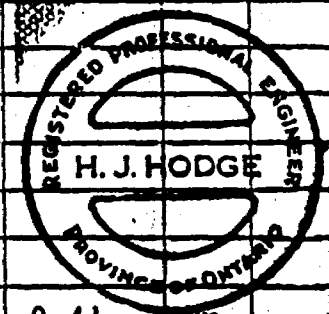
LONGITUDE

ULTIMATE DEPTH 406'

ELEVATION

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	10.0	CASING					
10.0	46.0	ANDESITE, medium green colour, fine grained, slightly sheared with carbonate stringers, moderately broken. 1% pyrite and minor sericite alteration. BRECCIATED? in places?					
45.0	84.0	ANDESITE (TUFF), medium green colour, well carbonatized in places and well altered with brown biotite in places. minor vuggy sections, well sheared.					
		55.0-57.0 FAULT					
		57.0-72.3 as above (46.0-84.0)					
		72.3-75.1 very well sheared and contorted with quartz stringers, brown biotite and chlorite alteration. 5-8% pyrite and 10% quartz materials	8483	72.3	75.1	2.8	Tr.
		75.1-84.0 TUFF, as above but very well contorted (46.0-84.0)					
84.0	88.1	ANDESITE, medium green colour highly calcareous, fine grained, 1% pyrite and minor pyrrhotite and occasional sphalerite. minor vuggy sections.					
		87.7-88.1 quartz veinlet and bleached andesite, 50% milky white quartz	8484	87.7	88.1	0.4'	Tr.



CONTRACTOR

SIGNED

DIAMOND DRILL RECORD

PROPERTY: Plant-Bickle Creek Station

HOLE NO. 29

SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
88.1	105.6	ANDESITE (TUFF), as above (46.0-84.0), not so well sheared or altered.	8485	89.9	90.6	0.7'	.005
		89.9-90.6, well contorted alteration zone, vuggy sections, 1-3% pyrite.					
		90.6-93.5 Tuff as above (88.1-105.6), minor sections of 25% pyrite					
		93.5-94.1 glassy white quartz veinlet, with 3-5% pyrite. bleached tuffaceous material, 25% quartz	8486	93.5	94.1	0.6'	.005
		94.1-99.3 as above (88.1-105.6)					
		99.3-100.0 minor quartz stringer and minor vuggy section, 1-3% pyrite.	8487	99.3	100.0	0.7'	Tr.
		100-100.9 Tuff as above (88.1-105.6)					
		101.9-104.8 FAULT, very well sheared and broken up, vuggy calcite stringers and minor quartz veinlets. 5-8% pyrite	8488	101.9	104.8	2.9'	Tr.
		104.8-105.6 as above (88.1-105.6)					
105.6	107.1	IRON FORMATION, weak iron formation, mostly chert and chlorite alteration, minor calcite and quartz stringers.					
107.1	116.7	ANDESITE (TUFF?), medium green colour, fine grained, slightly sheared with calcite stringers, minor vuggy sections, 1-3% pyrite and minor pyrrhotite, occurring in bands and blebs.					
		108.1-108.4, quartz veinlet, 1% pyrite with sericite.	8489	108.1	108.4	0.3'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 29

SHEET NO. 3

	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Gz/T Au
		108.4-116.7 as above (107.1-116.7), occasional bands of sericitic alteration					
116.7	119.4	IRON FORMATION, as above (105.6-107.1)					
119.4	129.2	DACITE? ALTERED ANDESITE, light green, fine grained, calcareous and moderately fractured with carbonate stringers, and minor quartz stringers. 4% pyrite.					
		128.1-129.2 milky white quartz vein, with massive vuggy section of pyrite and minor pyrrhotite					
		10' to C.A. also minor chalcopyrite and sphalerite, minor sericite alteration	8490	128.1	129.2	1.1'	.015
129.2	139.9	IRON FORMATION, as above (105.6-107.1)					
139.9	211.0	DACITE? ALTERED ANDESITE, pale grey green colour, slightly sheared, with carbonate stringers. moderately calcareous. this rock could be a breccia?					
		156.2-157.8 25-30% pyrite and minor pyrrhotite chalcopyrite and arsenopyrite?	8491	156.2	157.8	1.6'	Tr.
		157.8-180.7, as above (139.9-211.0)					
		180.7-181.4, minor quartz stringers	8492	180.7	181.4	0.7'	Tr.
		181.4-183.2 as above (139.9-211.0)					
		183.2-183.9 milky white quartz vein, minor tourmaline	8494	183.2	183.9	0.7'	.035
		183.9-211.0, Dacite, pale grey-green, fine grained, slightly sheared with carbonate and minor quartz stringers. occasional pyrite and pyrrhotite					

DIAMOND DRILL RECORD

PROPERTY

Callant-Bankle Grew Outcrop

HOLE NO.

29

SHEET NO.

4

		DESCRIPTION	SAMPLE NO	FROM	TO	THICK	Oz/T
							Att
		18 minor stringers of sericite alteration. in places well fractured					
211.0	243.4	DACITE BRECCIA, light grey fragments, pale grey green matrix, fine grained. fragments to 1½" of core length. Brecciation not always well developed. slightly sheared with carbonate stringers, less than 1% pyrrhotite, pyrite and occasional chalcopryite. occasional narrow quartz carbonate veinlets and rare inclusions? of feldspar.					
		233.8-235.2 contorted quartz veinlet roughly lld to C.A. with less than 1% pyrite, minor pyrrhotite, and occasional chalcopryite and sphalerite, minor tourmaline	8495	233.8	235.2	1.4'	Tr.
		235.2-241.9 as above (211.0-243.4)					
		241.9-243.4, as above (233.3-235.2)	8496	241.9	243.4	1.5'	Tr.
243.4	263.7	DACITE? ALTERED ANDESITE, pale grey-green colour, slightly fractured with chloritic alteration, minor (less than 1%), pyrite and pyrrhotite.					
263.7	282.1	DACITE BRECCIA, as above (211.0-243.4)					
282.1	299.4	ANDESITE (TUFF), medium green colour, fine grained, well altered in places with bright green (turquoise) mineral, well contorted in places, moderately sheared with quartz stringers, minor carbonate.					

DIAMOND DRILL RECORD

PROPERTY _____

 HOLE NO. 20

 SHEET NO. 5

			SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
		299.2-299.7 siliceous, well contorted alteration zone, less than 1% pyrrhotite and pyrite	8497	290.2	291.7	1.5'	Tr.
		291.7-299.4 as above, only 1% disseminated pyrrhotite, minor pyrite and chalcopyrite.					
299.4	316.1	DACITE BRECCIA, as above (211.0-243.4) with highly calcareous sections to 1 1/2" in length. altered basic Dyke? (andesite?)					
316.1	325.7	ANDESITE, medium green colour, fine grained, moderately fractured with carbonate, 1% pyrite in angular blebs.					
325.7	338.3	ANDESITE BRECCIA, medium green colour with hazy green to pale grey fragments, fine grained matrix, chloritic in places, less than 1% pyrrhotite and pyrite.					
338.3	343.9	FELDSPAR PORPHYRY, dark grey-green colour with light grey and cream coloured phenocrysts. 1-3% chloritic alteration in matrix, 1% disseminated pyrite.					
343.9	355.8	ANDESITE (TUFF?), medium green colour, slightly sheared with carbonate stringers, fine grained, minor quartz veinlets.					
		351.3-351.8 quartz veinlets 25% quartz material	8498	351.3	351.8	0.5'	.01
		351.8-353.2 as above (347.9-355.8)					
		353.2-353.8, quartz material, chlorite alteration and tourmaline	8499	353.2	353.8	0.6'	.005

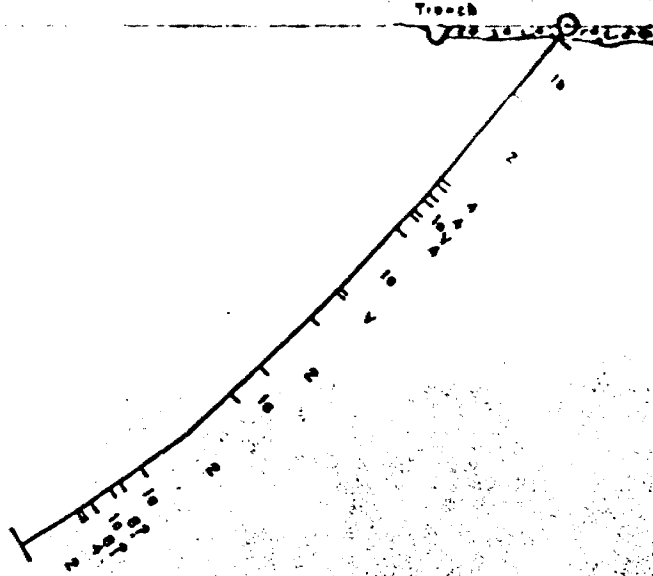
Datum

Trench

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry
Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite
Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics
b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - s Silicific

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cs Chalcopyrite
- Sp Sphalerite
- Go Galena
- As Arsenopyrite

0 25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-29

LOOKING WEST

Date: May, 1981 | Scale: 1" = 100' | Drawn: gmes

Author: H.J. Hodge P.Eng. | Map No.

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. G-2-21-20 SWEET NO. 1

LOCATION _____

BEARING Grid S DIP -50c

STARTED July 17/81

LATITUDE 7+00 S

TESTS:

COMPLETED July 19/81

DEPARTURE 24+00 E

FOOTAGE	DIP	BEARING
250	42d	
400	39d	

ULTIMATE DEPTH 406.0'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU Oz/T
0	64.0	CASING					
64.0	71.0	ANDESITE AND GRANITE BOULDERS.					
71.0	125.0	CASING					
125.0	135.3	ANDESITE? (DACITE?), medium green colour, medium grained, porphyritic looking texture. medium green "phenocrysts", light green fine grained "matrix", massive with fine quartz stringers and eyes? very blocky, well broken.					
		126.0-126.2 ground core, with small rounded milky white quartz fragments.					
		126.2-135.3, as above but very well sheared and broken, granite pebbles in broken core, much ground core.					
135.3	224.2	ANDESITE (TUFF?) medium green colour, fine grained well sheared and broken, with carbonate stringers, minor quartz stringers, and brown biotite alteration 30-40d to C.A. banding?					
		142.4-143.3 quartz carbonate veinlets, sericitic alteration, minor chlorite, less than 1% pyrite (sericite schist?)					
			8500				



DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 30 SHEET NO. 2

	SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
142.3-142.9, as above (135.3-142.4)					
142.9-144.7 contorted quartz carbonate veinlets, in sericite schist, 1-3% pyrite, minor chlorite	1501	143.9	144.7	0.8'	Tr.
144.7-146.0 as above (135.3-142.4)					
146.0-147.9 chlorite sericite schist, with 10% fractured dark coloured quartz fragments, 1-3% white carbonate, quartz blebs, 1-3% disseminated and crystalline pyrite, well sheared and moderately broken.	1502	146.0	147.9	1.9'	.005
147.9-148.6, as above (135.3-142.4)					
148.6-152.9, high incidence of shearing with quartz-carbonate veinlets	1503	148.6	152.9	4.3'	Tr.
152.9-159.7 ANDESITE (TUFF), (sericite-chlorite schist) medium green colour, fine grained, very well sheared with carbonate stringers and sericite and chlorite alteration. occasional pyrite cubes and occasional vuggy sections in concentrated carbonate. 45-50d to C.A.					
159.7-160.4 FAULT? MUD SEAM, fine to coarse grain- ed sand, 10-15% quartz grains, 15-20% magnetite.					
160.4-173.2, as above (152.9-159.7)					
173.2-175.2 chloritic, sheared with carbonate and 1-15% magnetite.					

DIAMOND DRILL RECORD

PROPERTY _____

 HOLE NO. 10

 SURF. NO. 2

DEPTH	DIAMETER	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		175.2-178.1 as above (152.9-159.7) lesser alteration, shearing is less intense, occasional magnetite zones as above					
		178.1-180.7 highly calcareous, slightly contorted, minor quartz and 1% pyrite.	1504	178.1	180.7	2.6'	Tr.
		180.7-181.2 as above (175.2-178.1)					
		181.2-181.9 FAULT? MUD SEAM as above (159.7-160.4)					
		181.9-204.7 as above (175.2-178.1)					
		204.7-208.5 as above (178.1-180.7)	1505	204.7	208.5	3.8'	Tr.
		208.5-209.2 as above (175.2-178.1)					
		209.2-211.5 as above (178.1-180.7)	1506	209.2	211.5	2.3'	Tr.
		211.5-224.2 ANDESITE (TUFF?), medium green colour, fine grained, slightly sheared with carbonate and minor sericite alteration, minor zones of magnetite.					
224.2	229.5	BASIC DYKE, medium green colour speckled with white carbonate, fine grained, massive.					
229.5	279.0	ANDESITE (TUFF), as above (211.5-224.2), graphitic? in places. some areas of exceptionally high carbonatization, banding 45-55d to C.A.					
		262.0-263.9 representative of shearing with carbonate, high level of carbonatization and brown biotite alteration, bleaching and 1-3% pyrrhotite and minor pyrite	1507	262.0	263.9	1.9'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. _____ SHEET NO. 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		263.9-269.8 as above (229.5-262.0)					
		269.8-270.6 as above (229.5-262.0) 5-8% pyrrhotite and pyrite	1508	269.8	270.6	0.8'	Tr.
		270.6-279.0 alteration zone? light grey coloured, highly siliceous, fine grained, slightly porphy- ritic in places. (QUARTZ SERICITE SCHIST?)					
		270.6-272.1 as above (270.6-279.0)	1509	270.6	272.1	1.5'	Tr.
		272.1-276.6 as above (270.6-279.0)					
		276.6-277.4, as above (270.6-279.0)	1510	276.6	277.4	0.8'	Tr.
		277.4-279.0 as above.					
279.0	400.9	QUARTZ ALBITE PORPHYRY? light to medium grey colour with white to blue white quartz phenocrysts to ¼", fine grained, only slightly to moderately developed porphyritic texture.					
		280.6-282.4 sample representative of above (includes a greenstone alteration contact?)	1511	280.6	282.4	1.8'	Tr.
		282.4-288.0 as above (279.0-280.6) occasional hazy quartz veinlets to 1" wide.					
		288.0-288.4 minor quartz veinlet	1512	288.0	288.4	0.4'	Tr.
		288.4-291.2 as above (279.0-280.6)					
		291.2-291.9 minor quartz veinlet	1513	291.2	291.9	0.7'	Tr.
		291.9-308.0 occasional very minor chlorite and sericite alteration. (chlorite in matrix, sericite in phenocrysts?) becoming moderately sheared.					

DIAMOND DRILL RECORD

PROPERTY Ballant-Buckle Grow, Ontario

WELL NO. 30

SHEET NO. 5

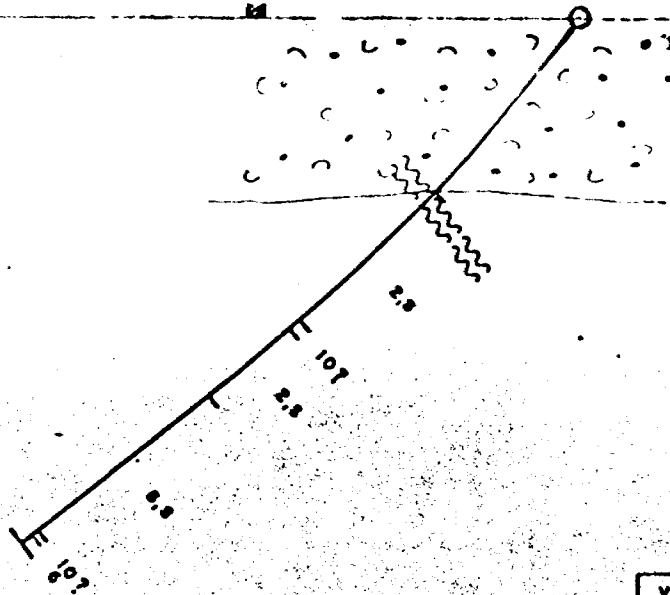
	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
308.0-309.1 as above, only moderately well sheared and moderately broken, with minor quartz veinlets.	1514	308.0	309.1	1.1'	Tr.
309.1-314.7 as above (291.9-308.0)					
314.7-318.5 moderately to very well sheared and broken, less than 1% pyrite.	1515	314.7	318.5	3.8'	Tr.
318.5-325.2 as above (291.9-308.0)					
325.2-326.0 as above (291.9-308.0), well sheared and broken	1516	325.2	326.0	0.8'	Tr.
326.0-329.6 as above (291.9-308.0)					
329.6-330.4 slightly sheared and broken with 1" quartz vein	1517	329.6	330.4	0.8'	Tr.
330.4-332.1 as above (291.9-308.0)	1518	332.1	336.0	3.9'	.005
332.1-336.0 moderate shearing and fracturing two 1/2" quartz veinlets					
336.0-337.0 as above (291.9-308.0)	1519	337.0	341.0	4.0	.005
337.0-341.0 shear zone, moderately to well broken.					
341.0-356.7 as above (291.9-308.0)					
356.7-357.1 quartz veinlet 1"	1520	356.7	357.1	0.4'	Tr.
357.1-364.8 as above (291.9-308.0)					
364.8-365.5 milky white quartz vein, 85% quartz	1521	364.8	365.5	0.7'	.005
365.5-367.4 as above (291.9-308.0)					
367.4-369.9 as above (364.8-365.5)	1522	367.4	369.9	2.5'	Tr.

Datum

-200'

-400'

-600'



LEGEND

- V Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry
Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite
Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics
b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ch Chlorite
 - si Silicite

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C₁ Chalcopyrite
- S₁ Sphalerite
- G₁ Galena
- A₁ Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-30

LOOKING WEST

Date: May, 1981 | Scale: 1" = 100' | Drawn: gmes

Author: H.J. Hodge P.Eng. | Map No:

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 02-181-31 SHEET NO. 1

LOCATION _____

PLANNING _____ -500

STARTED July 19/81

LATITUDE 6475SN

TESTS:

COMPLETED July 21/81

DEPARTURE 51+00 E

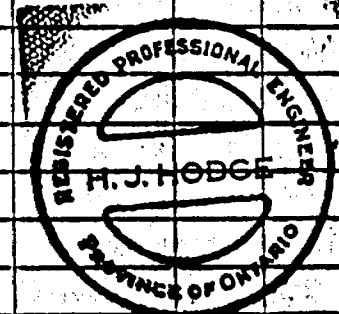
FOOTAGE	DIP	BEARING
200	NA	
400	47d	

ULTIMATE DEPTH 406'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	26.5	CASING					
26.5	57.3	ANDESITE, medium green colour, fine grained, well sheared with carbonate, occasional quartz stringers, highly calcareous, moderate amount of bright green chlorite alteration, 45d to C.A. occasional oxidized, vuggy sections, less than 1% pyrite and chalcopyrite. slightly broken. 46.0-57.3 andesite is heavily fractured and broken, shearing is less evident and ground well bleached.					
57.3	64.8	IRON FORMATION, massive magnetite, Minor chert, 1-3% pyrite, pyrrhotite, minor chalcopyrite, sphalerite? and very rarely arsenopyrite. very well sheared with a stockwork of milky white quartz veins. numerous off-setting fractures. banding 50d to C.A., occasional chlorite sections to 0.3 of a foot, barren in magnetite. 57.3-60.9 as above, sheared and broken (LOST CORE?) approx 1/2 foot, actual core sampled is 3 1/2'					
			1523	57.3	61.5	4.2'	Tr.



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. _____

SHEET NO. _____

2

		DEPTH	START	STOP	THICKNESS	GRAVITY	
		Feet	Feet	Feet	Feet	Au	
	60.9-64.8	as above	60.9	64.8	3.9'	.005	
	But with arsenopyrite occurring occasionally throughout sample length. Increased amount of quartz.						
64.8	68.5	ANDESITE, medium green colour, fine grained, slightly to very well sheared with milky white quartz, minor carbonate. 1-3% sphalerite? moderately broken	1524	60.9	64.8	3.9'	.005
	67.6-68.5	andesite, medium green fine grained, slightly sheared with quartz and carbonate stringers.	1525	64.8	67.6	2.8'	Tr.
68.5	68.8	IRON FORMATION, as above (60.9-64.8)	1526	68.5	68.8	0.3'	Tr.
68.8	71.1	ANDESITE, as above (67.6-68.5), magnetite and 1% pyrite associated with carbonate in sections.					
71.1	99.6	ANDESITE BRECCIA, medium green colour with hazy light green fragments. fine grained, slightly sheared with carbonate and quartz stringers. some carbonate zones have associated magnetite and 1% pyrite cubes. Fragments are to 1" of core length and appear well stretched.					
99.6	99.9	IRON FORMATION, well oxidized, 3-5% sphalerite, pyrite, and occasional arsenopyrite? with a 1/4" quartz stringer.	1527	99.6	99.9	0.3'	Tr.
99.9	114.7	ANDESITE BRECCIA (Becoming DACITIC?) as above only fragments to 2"-3" in places. highly calcareous in places.					

DIAMOND DRILL RECORD

PROPERTY _____

LOCALITY _____

HOLE NO. _____

21

SHEET NO. _____

3

		DEPTH NO.	START	STOP	THICK	Oz/T Au
	114.3-114.7 IRON FORMATION? magnetite, quartz and chert? 2-5% pyrite.	1528	114.3	114.7	0.4'	Tr.
114.7	176.4 ANDESITE? DACITE? medium green to grey-green, fine grained, slightly sheared with contorted carbonate and quartz stringers, occasional narrow bands of quartz carbonate, tourmaline, sericite alteration with less than 1% pyrite and chalcopyrite.					
	167.3-169.8 well sheared-breccia? quartz carbonate stringers less than 1% pyrite.	1529	167.3	169.8	2.5'	Tr.
	169.8-171.8 as above (114.7-176.4)					
	171.8-176.1 as above (167.3-169.8)	1530	171.8	176.1	4.3'	.005
	176.1-176.4 IRON FORMATION? as above (114.3-114.7)	1531	176.1	176.4	0.3'	Tr.
176.4	187.0 DACITE? TUFF? medium green colour, well sheared with graphite, carbonate stringers, and chlorite alteration, minor quartz stringers.					
187.0	200.4 RHYO-DACITE? medium grey colour, fine grained, massive to slightly sheared with carbonate stringers.					
200.4	200.9 IRON FORMATION, interbedded. chert and magnetite, 50% magnetite 1% pyrite	1532	200.4	200.9	0.5'	Tr.
200.9	208.8 ANDESITE, medium green colour, fine grained, slightly sheared with carbonate stringers					

DIAMOND DRILL RECORD

PROPERTY _____

LOCALITY _____

HOLE NO. 31

SHEET NO. 4

			SAMPLE NO	FROM	TO	FEET	Oz/T AU
208.8	209.3	IRON FORMATION, as above (200.4-200.9)	1533	208.8	209.3	0.5'	Tr.
209.3	209.9	ANDESITE, as above (200.9-208.8) with one 1" quartz carbonate stringer.	1534	209.3	209.9	0.6'	Tr.
209.9	210.1	IRON FORMATION, as above (200.4-200.9)					
210.1	212.3	ANDESITE, as above (200.9-208.8)					
		211.0-212.3 well sheared with quartz-carbonate stringers	1535	211.9	212.3	0.4'	Tr.
212.3	212.9	IRON FORMATION, as above (200.4-200.9) 1-3% pyrite chalcopyrite, sphalerite. well intruded with quartz	1536	212.3	212.9	0.6'	Tr.
212.9	221.2	ANDESITE, as above (114.7-176.4)					
221.2	222.4	IRON FORMATION, as above (200.4-200.9)	1537	221.2	222.4	1.2'	.005
222.4	256.0	ANDESITE, as above (114.7-176.4)					
256.0	274.0	ANDESITE BRECCIA? medium green colour with hazy green fragments to 1½" fine grained, slightly sheared with carbonate and quartz stringers.					
274.0	307.0	RHYO-DACITE BRECCIA? medium grey colour with pale grey fragments, highly siliceous, slightly sheared with carbonate stringers. occasional quartz blebs.					
307.0	308.2	IRON FORMATION, interbedded chert and magnetite, 50% magnetite, 3-5% pyrrhotite, pyrite with minor chalcopyrite and sphalerite. well fractured with carbonate and quartz stringers	1538	307.0	308.2	1.2'	.005

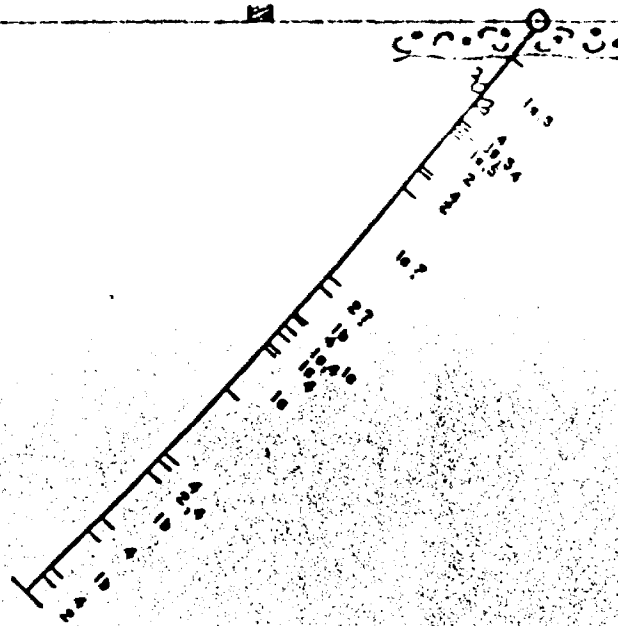
			SAMPLE NO.			THICK	Oz/T Au
308.2	311.6	RHY-DACITE BRECCIA? (as above) (274.0-307.0)					
311.6	313.5	IRON FORMATION, as above (307.0-308.2)	1539	311.6	313.5	1.9'	Tr.
313.5	314.1	RHYO-DACITE BRECCIA? (274.0-307.0)					
314.1	314.6	IRON FORMATION, as above (307.0-308.2)	1540	314.1	314.6	0.5'	Tr.
314.6	343.1	DACITE? medium grey colour, fine grained, irregular blotchy sections of darker and lighter greys. massive to slightly sheared, with carbonate stringers.					
		316.7-317.7 irregular quartz vein, milky white to blue. 25%-30% pyrite and pyrrhotite, minor tourmaline, moderate chlorite.	1541	316.7	317.7	1.0'	Tr.
		317.7-343.1 DACITE? as above (314.6-343.1)					
343.1	343.4	IRON FORMATION, minor magnetite, mostly white chert, 1-3% pyrite, pyrrhotite, minor quartz stringer.	1542	343.1	343.4	0.3'	Tr.
343.4	351.9	DACITE as above (314.6-343.1)					
351.9	360.9	IRON FORMATION, interbanded magnetite and chert. some short barren sections of andesite. 25% magnetite overall, 3-5% pyrite, pyrrhotite with minor chalcopyrite and sphalerite.					
		353.6-354.6 as above 40% magnetite	1543	353.6	354.6	1.0'	Tr.
		354.6-355.4 as above (351.9-360.9)					
		355.4-355.8 as above (351.9-360.9) interbanded with chlorite.	1544	355.4	355.8	0.4'	Tr.
		355.8-360.0 weak iron formation					

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry, Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite, Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics, b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- c Carbonate
- ch Chlorite
- si Silicite

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C₁ Chalcopyrite
- S₁ Sphalerite
- G₁ Galena
- A₁ Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-31

LOOKING WEST

Date: May, 1981 | Scale: 1" = 100' | Drawn: gmes

Author: H.J. Hodge P.Eng. | Map No.

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. G-P-81-32 SHEET NO. 1

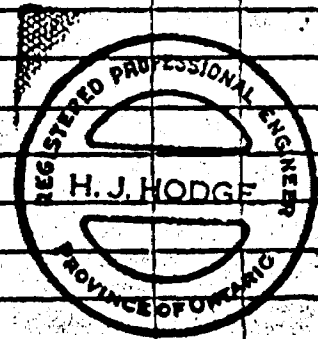
LOCATION _____
 LATITUDE 52+00 N
 DEPARTURE 20+00 E
 ELEVATION _____

TESTS:

FOOTAGE	DIP	BEARING
200	47d	
400	36d	

STARTED July 23/81
 COMPLETED July 24/81
 ULTIMATE DEPTH 406'
 LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	44.0	CASING					
44.0	58.3	ANDESITE (TUFF?), medium green colour, fine grained, very well sheared and broken, quartz veining all through. less than 1% pyrite, minor sericite alteration. (20% quartz)					
		44.0-48.5 as above	1547	44.0	48.5	4.5'	Tr.
		48.5-50.6 andesite as above, reddish oxidized sections, minor quartz veins					
		50.6-53.5 reddish brown oxidized sections, sometimes conformable to banding, sometimes massive, minor rusty vuggy quartz veins.	1548	50.6	53.5	2.9'	.01
		53.5-58.3 as above (44.0-58.3)					
58.3	58.9	BASIC DYKE, fine grained, rusty reddish brown.					
58.9	67.5	ANDESITE (TUFF?) reddish brown colour, due to oxidation of pyrites? conformable to banding? 45d to C.A. fine grained, well sheared, and broken					
67.5	101.0	ANDESITE, medium green colour, (some red oxides), fine grained, moderately sheared with contorted					



DIAMOND DRILL RECORD

PROPERTY Callant-Bickle, Crow Option

HOLE NO. 22

SHEET NO. 2

LOG	DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
		carbonate stringers, moderately broken, occasional quartz carbonate stringers, and occasional more acidic speckled sections, occasional short oxidized sections. (DYKES) Core in places well broken and occasional lost sections?					
101.0	125.2	DACITE (TUFF) light to medium grey with pale brown sections of sericite alteration. (sericite schist?) fine grained, well sheared with contorted carbonate and quartz-carbonate stringers.					
		104.3-105.0 contorted quartz-carbonate vein, sericite and minor tourmaline.	1549	104.3	105.0	0.7'	Tr.
		105.0-105.7 as above (101.0-104.3)					
		105.7-106.4 as above (104.3-105.0) with vuggy sections	1550	105.7	106.4	0.7'	Tr.
		106.4-115.5 DACITE (TUFF?) as above (101.0-104.3) 45d to C.A.					
		115.5-115.8 1" quartz vein	1551	115.5	115.8	0.3'	Tr.
		115.8-120.9 as above (101.0-104.3), well broken up in sections					
		120.9-122.2 well sheared with carbonate and quartz stringers. 30% sericite.	1552	120.9	122.2	1.3'	Tr.
		122.2-125.2 as above (101.0-104.3), sections of massive sericite alteration.					

DIAMOND DRILL RECORD

PROPERTY Callaway - Wickliffe - Green - Ontario HOLE NO. 12 SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
125.2	139.5	ANDESITE medium green colour, fine grained, well sheared with carbonate and quartz-carbonate stringers, moderately contorted, sections of minor sericite alteration.					
	129.7-130.4	well sheared, 1" quartz vein, sericite	1553	129.7	130.4	0.7'	Tr.
	130.4-131.2	as above (125.2-139.5)					
	131.2-133.5	well sheared with carbonate and quartz carbonate, sericite.	1554	131.2	133.5	2.3'	Tr.
	133.5-139.1	andesite as above, (125.2-139.5)					
	139.1-139.5	narrow contorted quartz veinlet, 30% quartz	1555	139.1	139.5	0.4'	Tr.
139.5	144.5	ANDESITE? (GRAPHITIC ANDESITE SCHIST?) medium grey colour, fine grained well sheared and broken with contorted quartz-carbonate stringers, sericite alteration (graphitic?)					
144.5	148.2	CHERT? QUARTZ VEIN? bluish green chert or quartz, well fractured with graphite? sericite and minor chalcopyrite (IRON FORMATION? barren of magnetite?)	1556	144.5	148.2	3.7'	Tr.
148.2	165.4	SERICITE SCHIST, waxy, yellow-brown colour, occasional bright green bands of chlorite alteration, fine grained, well sheared with quartz carbonate and quartz-carbonate stringers, well broken.					
	148.8-150.6	as above	1557	148.8	150.6	1.8'	Tr.
	150.6-153.2	as above (144.2-150.6)					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 22

SHEET NO. 4

			SAMPLE NO.	FROM	TO	FEET	Oz/T Au
		153.2-159.3 as above (148.2-159.6)	1558	153.2	155.3	2.1'	.005
		155.3-159.3 sericite schist, less sericite alteration than before; brown-grey colour, less shearing and not as broken as before.					
		159.3-162.0 Zone of more intense shearing with quartz and carbonate (10-20%)	1559	159.3	162.0	2.7'	.005
		162.0-164.7 as above (155.3-159.3)					
		164.7-165.4 as above (159.3-162.0)	1560	164.7	165.4	0.7'	Tr.
165.4	177.5	ANDESITE, medium grey-green colour, still with large amount of sericite, but shearing and schistosity is less intense, fine grained, slightly sheared, with carbonate and quartz-carbonate stringers					
		172.5-173.3 quartz vein, 40% quartz	1561	172.5	173.3	0.8'	Tr.
		173.3-177.5 as above, (165.4-177.5), less than 1% pyrite.					
177.5	178.5	BASIC DYKE, pale grey colour, fine grained, slightly sheared.					
178.5	249.8	SERICITE SCHIST, as above (155.3-159.3)					
		181.2-181.7 quartz vein, 60% quartz	1562	181.2	181.7	0.5'	Tr.
		181.7-195.4 as above (155.3-159.3)					
		195.4-196.0 quartz vein, blue grey quartz, 1% disseminated pyrite, 90% quartz	1563	195.4	196.0	0.6'	Tr.
		196.0-200.5 as above (155.3-159.3)					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. _____

SURVEY NO. _____

	SAMPLE NO	FROM	TO	FEET	Oz/T A:
200.7-212.0 quartz vein as above, (195.4-196.0)					
only 1-3% pyrite	1564	200.5	202.6	2.1'	Tr.
202.6-208.6 minor sericite, more graphitic?					
208.6-209.7 highly silicified zone, less than 1%					
pyrite, 80% quartz	1565	208.6	209.7	1.1'	Tr.
209.7-218.6 sericite schist, as above, (155.3-					
159.3), extremely well sheared and broken in places.					
218.6-222.7 very well sheared and broken, quartz					
veining throughout, 40-50% quartz, massive seric-					
ite, minor tourmaline, 1% pyrite, chalcopyrite					
minor pyrrhotite and sphalerite?	1566	218.6	222.7	4.1'	Tr.
222.7-225.0 Sericite schist as above. (155.3-					
159.3) more sheared and broken, SHEAR ZONE					
225.0-226.5 as above (155.3-159.3)					
226.5-227.0 80% chert, minor quartz stringer					
1-3% pyrrhotite and minor pyrite.	1567	226.5	227.0	0.5'	Tr.
227.0-236.6 as above (155.3-159.3) 30-40d to C.A.					
moderately broken in places.					
236.6-236.8 quartz vein, 90% quartz	1568	236.6	236.8	0.2'	Tr.
236.8-241.5 as above, (155.3-159.3)					
241.5-241.9 quartz vein broken and fractured-					
20% quartz	1569	241.5	241.9	0.4'	0.05
241.9-243.7 as above (155.3-159.3)					
243.7-245.7 FAULT well sheared with quartz vein-					
lets and stringers -25% quartz	1570	243.7	245.7	2.0'	Tr.

DIAMOND DRILL RECORD

PROPERTY Collier's No. 277

HOLE NO. 32

SHEET NO. 6

			SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
	249.7-249.4 as above (255.3-259.3)						
	249.4-249.8 well sheared and broken, 24" quartz vein and 1" quartz vein 40% quartz						
249.8	251.5	BASIC DYKE? medium grey green colour, fine grained, slightly fractured, minor chlorite alteration.	1571	249.4	249.8	1.4'	Tr.
251.5	315.7	SERICITE SCHIST (GRAPHITIC SERICITE SCHIST) yellow brown colour to medium grey colour, fine grained, massive to well sheared with sericite alteration minor carbonate stringers and quartz stringers and veins.					
	251.5-252.0- 50% quartz vein material, milky white						
			1572	251.5	252.0	0.5'	Tr.
	252.0-262.1, as above (251.5-315.7)						
	262.1-266.6 sections of chert and minor quartz veins and stringers, 50% quartz.						
			1573	262.1	266.6	4.5'	Tr.
	266.6-274.1 as above (251.5-315.7)						
	274.1-276.6 SHEAR ZONE, numerous quartz-carbonate stringers and one 5" quartz vein. 25% quartz, less than 1% pyrite.						
			1574	274.1	276.6	2.5'	Tr.
	276.6-311.3 as above (251.5-315.7) less than 1% finely disseminated pyrite with minor chalcopyrite.						
	311.3-315.7 as above (251.5-315.7) somewhat bleached colour, slightly sheared with quartz-carbonate						

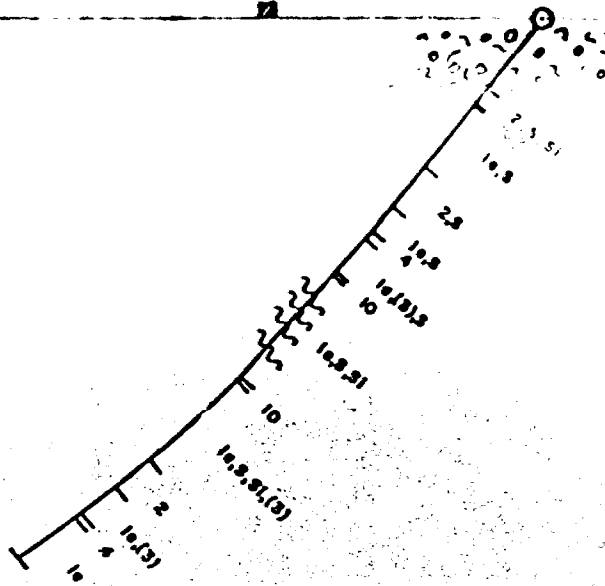
						Oz/T Au	
		stringers, 70% disseminated pyrite and minor chalcopyrite.	1575	315.3	315.7	4.4'	Tr.
315.7	336.0	ANDESITE (TUFF?) medium green colour, fine grain- ed, highly calcareous, slightly sheared with car- bonate and quartz stringers. 70% disseminated pyrite, minor chalcopyrite, intermittant zones of angular spotty magnetite. minor sericite alt- eration at 33-45d to C.A. portions of core are bleached? grey colour (GRAPHITIC?)					
336.0	347.7	GRAPHITIC SERICITE SCHIST? as above, (251.5-315.7) 344.7-347.7 well sheared with quartz-carbonate stringers	1576	344.7	347.6	2.9'	Tr.
347.7	358.7	ANDESITE, as above (315.7-336.0), absence of disseminated sulphide, magnetite is in narrow carbonate zones now with 1% pyrite cubes.					
358.7	361.8	IRON FORMATION, weak iron formation. mainly blue white chert, 60% andesite, very minor jasper in chert, 10% magnetite. 360.6-361.8 as above (358.7-361.8)	1577	360.6	361.8	1.2'	Tr.
361.8	406.0	ANDESITE as above (347.8-358.7), occasional chert bands with minor jasper. 377.9-380.6 SHEAR ZONE, minor quartz stringers and veinlets.	1578	377.9	380.6	2.7'	Tr.

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry
Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite
Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- C Carbonate
- Ch Chlorite
- S Silicitic

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C₁ Chalcopyrite
- S₁ Sphalerite
- G₁ Galena
- A₁ Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-32

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. C-P-91-22 SHEET NO. 1

LOCATION _____

LATITUDE 27°00' N

DEPARTURE 20°00' E

ELEVATION _____

DEPTH _____ - 500

TESTS:

FOOTAGE	DIP	BEARING
200	NA	
400	32d	

STARTED July 20/81

COMPLETED July 25/81

ULTIMATE DEPTH 406'

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	10.0	CASING					
10.0	33.5	ANDESITE, medium green colour, fine grained, speckled appearance due to quartz eyes. slightly to moderately sheared with narrow quartz stringers and occasional sheared and broken vuggy oxidized sections.					
		18.4-21.9 well silicified, sheared and broken sections, iron oxide and vuggy	1579	18.4	21.9	3.5'	Tr.
		21.9-35.6 as above (10.0-33.5) massive to slightly sheared.					
		35.6-36.8 brecciated chert with quartz and chlorite fill.	1580	35.6	36.8	1.2'	Tr.
		36.8-39.0 as above (21.9-35.6)					
		39.0-39.4 massive pyrite and occasional chalcopyrite	1581	39.0	39.4	0.4'	Tr.
		39.4-43.5 as above (21.9-35.6)					
33.5	65.7	IRON FORMATION creamy white chert well fractured and drag folded, fracture fill with chlorite, magnetite and sulphides - mainly pyrite. occasional					



DIAMOND DRILL RECORD

PROPERTY Callant-Rickle Crow Option

HOLE NO. 33

SHEET NO. 2

			SAMPLE NO	FROM	TO	FEET	Oz/T Au
		zones of fractured massive magnetite fine lattice work of quartz stringers throughout. 3-8% magnetite. 1-3% pyrite. 0-90d. to C.A.					
		42.9-47.6 representative sample as above.	1582	42.9	47.6	4.7'	Tr.
		47.6-56.3 as above (33.5-65.7) varying magnetite content, zones of brecciated chert and chlorite.					
		56.3-57.0 more quartz than usual?	1583	56.3	57.0	0.7'	Tr.
		57.0-64.9 as above (47.6-56.3)					
		64.9-65.3 oxidized vuggy section	1584	64.9	65.3	0.4'	Tr.
		65.3-65.7 as above (47.6-56.3)					
65.7	70.4	ANDESITE, medium green colour, massive, fine grained.					
70.4	124.1	IRON FORMATION, as above (47.6-56.3), varying amounts of chert and chlorite, moderately to well broken at 90d to C.A., pyrrhotite is now present with pyrite.					
		83.2-85.3 10-15% pyrrhotite and minor pyrite	1585	83.2	85.3	2.1'	.01
		85.3-123.7 as above (70.4-83.2) occasional milky white quartz stringers, minor chalcopyrite					
		123.5-123.7 milky white quartz veinlet, (40% quartz)	1586	123.5	123.7	0.2'	Tr.
		123.7-124.1 as above (70.4-83.2)					
124.1	406.0	ANDESITE, medium green colour, fine grained, massive to slightly sheared with carbonate and quartz carbonate stringers.					

DIAMOND DRILL RECORD

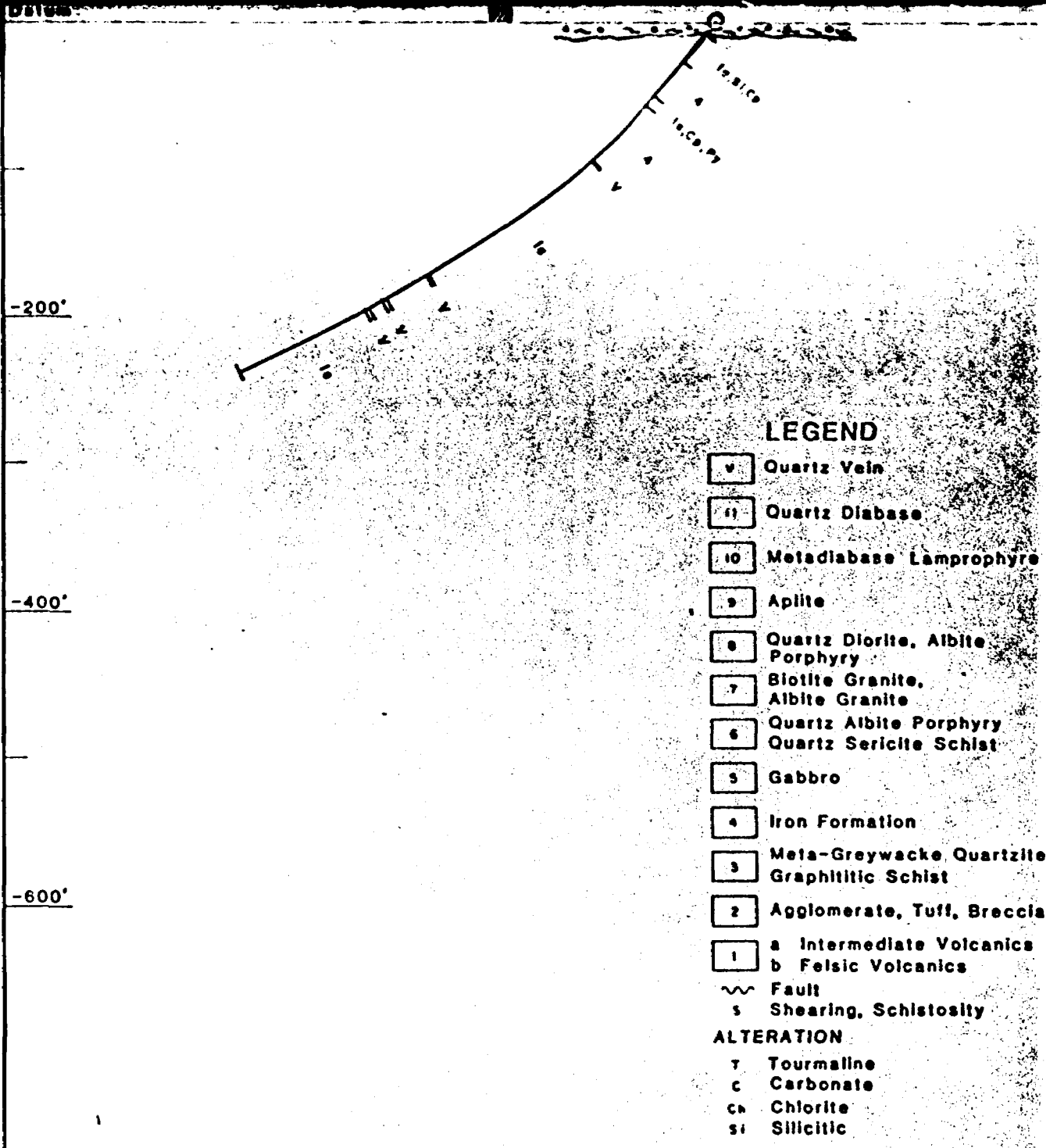
PROPERTY _____

Callant- Pickle Crow Option

HOLE NO. 33

SHEET NO. 3

DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
	170.2-174.3 stockwork of tiny quartz stringers, minor sericite alteration	1587	170.2	174.3	4.1'	Tr.
	174.3-192.1 as above (124.1-170.2) only slightly to moderately sheared.					
	192.1-192.6 QUARTZ VEIN, 70% quartz	1588	192.1	192.6	0.5'	Tr.
	192.1-256.2 as above (124.1-170.2), some contorted drag folding in carbonate stringers, minor magnetite associated with carbonate zones. sericitic in places.					
	256.2-257.2 calcareous zone with quartz and quartz carbonate stringers	1589	256.2	257.2	1.0'	Tr.
	257.2-265.0 as above (192.1-256.2)					
	265.0-265.7 4" quartz vein 80% quartz	1590	265.0	265.7	0.7'	Tr.
	265.7-267.8 as above (192.1-256.2)					
	267.8-271.9 as above (256.2-257.2)	1591	267.8	271.9	4.1'	Tr.
	271.9-298.1 as above (192.1-256.2)					
	298.8-299.5 quartz vein 75% quartz, magnetite and chert (IRON FORMATION)	1592	298.8	299.5	0.7'	Tr.
	299.5-305.1 as above (124.1-170.2)					
	305.1-305.4 quartz veinlets, 70%	1593	305.1	305.4	0.3'	Tr.
	305.4-314.5 as above (124.1-170.2)					
	314.5-316.9 well sheared with sericite, quartz and carbonate stringers	1594	314.5	316.9	2.4'	.005
	316.9-340.5 as above (124.1-170.2), slightly sericitic.					



LEGEND

- 11 Quartz Vein
 - 10 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke, Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- t Tourmaline
 - c Carbonate
 - ch Chlorite
 - si Silicific

SULPHIDES

- py Pyrite
- po Pyrrhotite
- cp Chalcopyrite
- sp Sphalerite
- ga Galena
- ar Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.		
PICKLE CROW OPTION, ONTARIO PICKLE LAKE AREA, ONTARIO VERTICAL SECTION		
D.D.H. G-P-81-33		
LOOKING WEST		
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. CH-81-34 SURVEY NO. 1

LOCATION _____

DEPTH 508

STARTED July 26/81

LATITUDE 30°50' N

TESTS:

COMPLETED July 28/81

DEPARTURE 4+00 West

FOOTAGE	DIP	BEARING
200	45d	
506	35d	

ULTIMATE DEPTH 508'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	14.8	CASING					
14.8	90.9	ANDESITE, medium green colour, fine grained, massive to slightly sheared, with carbonate stringers, highly calcareous. some zones of carbonate have earthy ochrous red blebs? (probably iron oxide)					
		48.8-50.8 Laminated chert with milky white quartz vein running through.	1596	48.8	50.8	2.0'	Tr.
		50.8-90.9 as above (14.8-90.9)					
90.9	94.5	IRON FORMATION, Brecciated, mainly chert breccia in chlorite matrix.					
94.5	204.3	ANDESITE, as above, (14.8-90.9)	1597	132.0	134.7	2.7'	Tr.
		132.0-134.7 cherty brecciated zone with quartz stringers.					
		134.7-143.4 as above (14.8-90.9)					
		143.4-144.5 highly calcareous zone of magnetite and chert.	1598	143.4	144.5	1.1'	Tr.
		144.5-146.0 as above (14.8-90.9)					
		146.0-151.9 as above (143.4-144.5) (no Magnetite)					
		151.9-161.0 as above (14.8-90.9)					



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 34

SHEET NO. 2

		DEPTH	TO	FEET	Oz/T Au		
		161.0-164.6 as above (146.0-151.9)					
		164.6-194.3 as above (14.8-90.9)					
		194.3-195.0 IRON FORMATION? 30% magnetite with white chert, or quartz, moderately calcareous.	1599	194.3	195.0	0.7'	.005
		195.0-204.3 as above (14.8-90.9)					
204.3	207.7	DACITE? (ALTERED ANDESITE) medium green colour, fine grained, moderately sheared with carbonate and quartz-carbonate stringers, frequent blebs of carbonate and magnetite.					
		207.4-207.7 QUARTZ-CARBONATE stringer	1600	207.4	207.7	0.3'	Tr.
207.7	208.7	IRON FORMATION? cream coloured chert, massive chert, less than 1% disseminated magnetite.					
208.7	211.7	ANDESITE, medium green colour, fine grained, slightly brecciated? moderately sheared with quartz-carbonate stringers, blebs of carbonate and magnetite (with chert?)					
		208.6-209.5 quartz carbonate stringers	1601	208.6	209.5	0.9'	Tr.
		209.5-211.7 as above (208.7-211.7)					
211.7	212.2	IRON FORMATION as above-(207.7-208.7)					
212.2	215.0	ANDESITE as above (208.7-211.7)					
215.0	216.0	IRON FORMATION, contorted chert with disseminated magnetite and minor quartz stringers, less than 1% pyrite	1602	215.0	216.0	1.0'	Tr.
216.0	276.4	ANDESITE, as above (208.7-211.7), well fractured with tiny stringers of chlorite, a slight grey					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 34

SHEET NO. 1

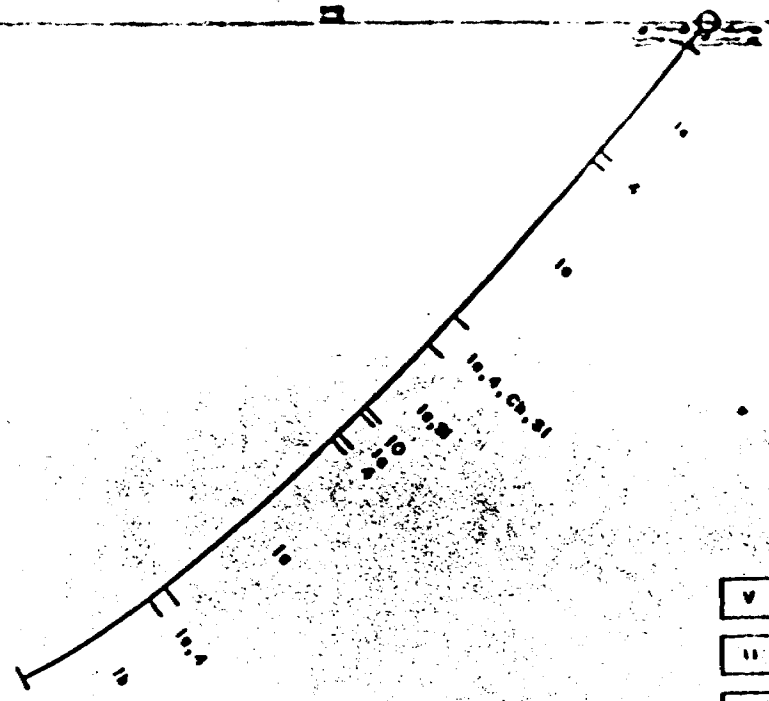
		DEPTH NO.	FROM	TO	FEET	OZ/T
						AU
276.4	277.6					
BASIC DYKE, very well oxidized to rust-red colour, fine grained, highly calcareous.						
277.6	290.5					
ANDESITE, medium green colour, fine grained, highly siliceous, very well sheared with contorted quartz stringers, minor sericite and chlorite alteration.						
	280.6-283.2 as above	1603	280.6	283.2	2.6'	Tr.
	283.2-290.5 as above					
290.5	291.5					
IRON FORMATION? contorted, slightly calcareous chert and magnetite, (10%) with sericite alteration.						
291.5	417.1					
ANDESITE, as above (277.6-290.5)						
	294.7-300.1, well sheared with quartz and chert?					
	50% quartz	1604	294.7	300.1	5.4'	Tr.
	300.1-317.3 as above- fairly frequent zones of magnetite, carbonate, and contorted siliceous zones. shearing is moderate to heavy. occasional massive chert section with minor jasper?					
	317.3-365.1, andesite, medium green, fine grained, massive to slightly sheared with carbonate stringers, minor zones of carbonate and magnetite.					
	365.1-365.6 milky white quartz and quartz-carbonate veins, magnetite and minor chert, less than 1%					

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicific

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C₁ Chalcopyrite
- S₁ Sphalerite
- G₁ Galena
- A₁ Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-34

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. P-81-15 SHEET NO. 1

LOCATION _____

DATE _____

STARTED July 20, 81

LATITUDE 24° 00' N

WINDS: _____

COMPLETED July 31/81

DEPARTURE 40+00 W

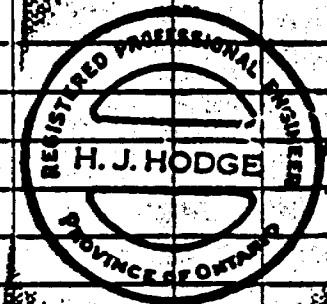
FOOTAGE	DIP	BEARING
200	45d	
400	46d	

ULTIMATE DEPTH 383'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	49.0	CASING					
49.0	53.7	ANDESITE, medium grey-green colour, fine grained, moderately sheared with quartz stringers, slightly calcareous in places, well silicified, occasional areas of minor pyrite.					
53.7	54.4	BASIC DYKE, oxidized to reddish brown colour, fine grained, massive.					
54.4	66.8	ANDESITE, as above, very well silicified with patchy medium grey quartz. 1% disseminated pyrite.					
		54.4-56.4 minor quartz	1608	54.4	56.4	2.0'	.005
		56.4-63.7 as above					
		63.7-66.8 milky white quartz vein with carbonate and well silicified and brecciated zone with carbonate stringers, brown biotite alteration, 1-3% pyrite	1609	63.7	66.8	3.1'	.005
66.8	86.0	ANDESITE BRECCIA, medium green to medium grey-green with hazy pale green and pale grey fragments to 1". moderately to well sheared with quartz, quartz-carbonate, and carbonate stringers & veinlets.					



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 25

SHEET NO. 2

		SAMPLE NO.	FROM	TO	THICK	Oz/T Au
	68.1-70.7 as above (66.8-86.0)	1610	68.1	70.7	2.6'	.005
	70.7-72.1 as above (66.8-86.0)					
	72.1-77.1, as above with 1% disseminated pyrite. (66.8-86.0)	1611	72.1	77.1	5.0'	Tr.
	77.1-82.5 as above (66.8-86.0)	1612	77.1	82.5	5.4'	.002
	82.5-84.4 andesite breccia as above with some DYKE ALTERATION. rusty red banding at 50d to C.A1613		82.5	84.4	1.9'	.005
	84.4-86.0 AS ABOVE (82.5-84.4)					
86.0	89.1 BASIC DYKE, rusty red colour from oxidation, fine grained, very well sheared and BROKEN UP. FAULT, highly calcareous, 87.9-88.0 fault gouge					
89.1	92.0 ANDESITE BRECCIA, as above (66.8-86.0)					
92.0	111.7 ANDESITE, medium green colour, fine grained, slight- ly to moderately sheared with carbonate stringers and occasional quartz carbonate bands.					
	107.0-107.4 quartz carbonate veinlet -40% quartz	1614	107.0	107.4	0.4'	.002
	107.4-111.7 as above (92.0-111.7)					
111.7	112.8 BASIC DYKE, as above (86.0-89.1) <u>FAULTED</u> & BROKEN					
112.8	291.7 ANDESITE, as above (92.0-111.7) 127.4-127.8 calcite stringers, less than 1% oxid- ized pyrite blebs.	1615	127.4	127.8	0.4'	.005
	127.8-133.0 as above (92.0-111.7)					
	133.0-134.7 carbonate zones with quartz stringers, less than 1% pyrite, 10% quartz	1616	133.0	134.7	1.7'	Tr.

DIAMOND DRILL RECORD

PROPERTY Callant-1-1/2 mile Crew Ontario

HOLE NO. 35

SHEET NO. 3

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
	134.2-136.3 as above (92.0-111.7)					
	136.3-137.0 carbonate zone with hematite? and epidote	1617	136.3	137.0	0.7'	Tr.
	137.0-165.8 as above (92.0-111.7)					
	165.8-166.3 carbonate vein with vuggy sections	1618	165.8	166.3	0.5'	.005
	166.3-189.2 as above (92.0-111.7)					
	189.2-190.0 milky white carbonate, epidote, hema- tite? minor tourmaline	1619	189.1	190.0	0.9'	Tr.
	190.0-243.0- as above (92.0-111.7), frequent snow white carbonate veins.					
	243.0-243.6 quartz veinlet in carbonate with minor tourmaline, 30% quartz.	1620	243.0	243.6	0.6'	Tr.
	243.6-254.8 as above (92.0-111.7)					
	254.8-255.3 fractured quartz stringers with minor calcite. 50% quartz	1621	254.6	255.3	0.7'	Tr.
	255.3-259.7 as above (92.0-111.7)					
	259.7-263.0 fractured white quartz vein with blue white quartz fracture fill and tiny narrow string- ers of carbonate and tourmaline. 80% quartz	1622	259.7	263.0	3.3'	Tr.
	263.0-280.0 andesite-medium green colour, fine grained, well sheared with quartz-carbonate blebs, stringers, and veinlets. occasional zones of brown-yellow sericite.					
	280.0-281.9 fractured-sheared zone of quartz (70%) minor sericite & 4" band of graphite	1623	280.0	281.9	1.9'	Tr.

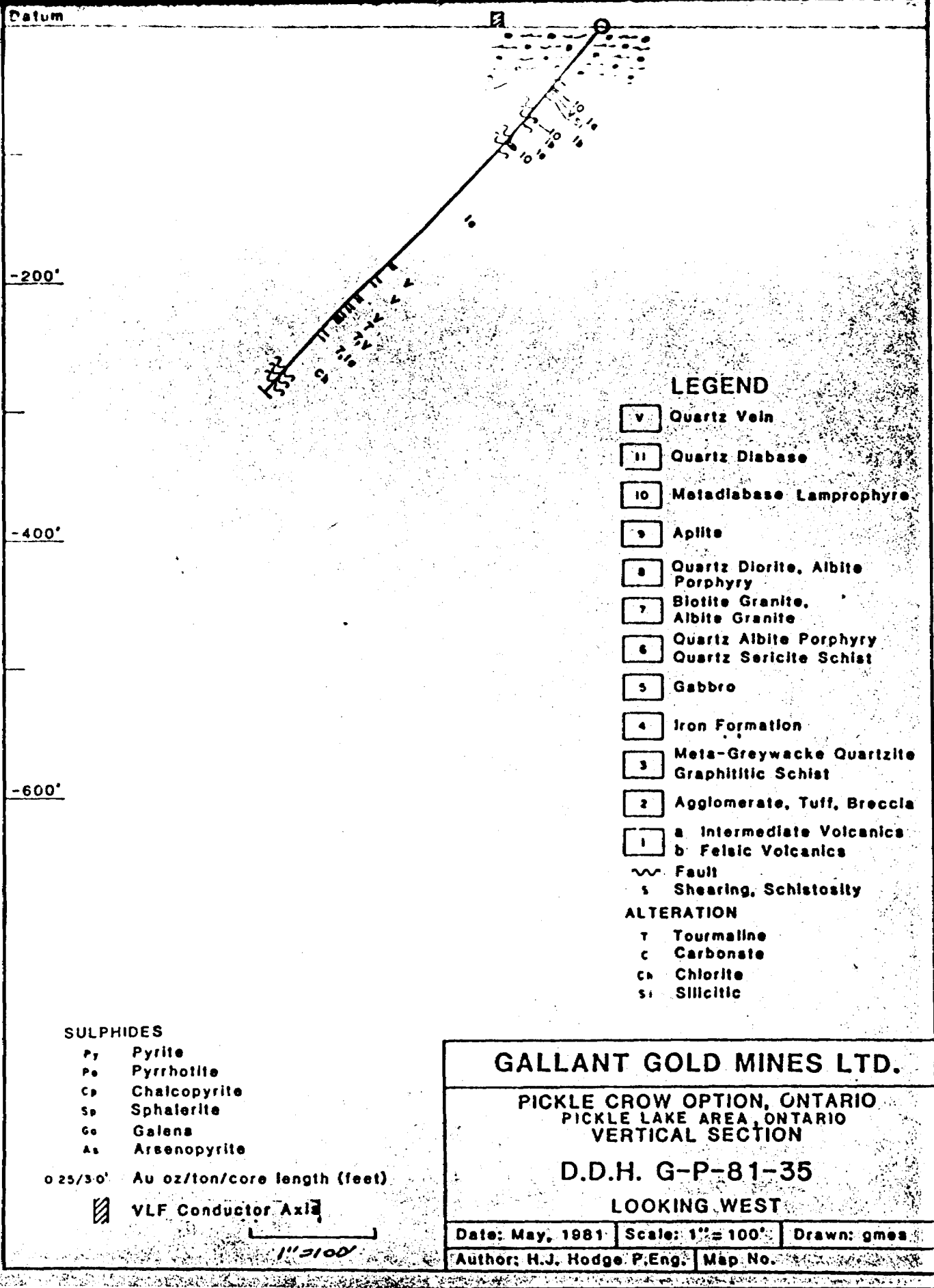
DIAMOND DRILL RECORD

PROPERTY Millers-Dickie Crow Station

HOLE NO. 35

SHEET NO. 4

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
		281.9-291.7 as above (263.0-289.0)					
291.7	292.5	GRANITE DYKE, pale grey-pink colour speckled with green chlorite, medium grained, massive.					
292.5	297.0	ANDESITE (TUFF?), medium green colour, fine grained, well sheared with carbonate stringers, sericite and chlorite alteration.					
297.0	305.1	GRANITE DYKE, as above (291.7-292.5), medium to fine grained.					
		302.6-304.3 contact alteration zone of Dyke and Andesite. Dyke becomes fine grained.					
		304.3-305.1 Dyke in contact with IRON FORMATION, blue quartz filled fractured chert, 1% magnetite, 8-10% pyrite	1624	304.3	305.1	0.8'	Tr.
305.1	318.7	ANDESITE, as above (292.5-297.0)					
		305.4-310.5 whitish cream coloured cherty looking zone of completely soaked and silicified (andesite?) well fractured with blue, quartz stringers and minor chlorite alteration.					
		310.5-314.9 as above (292.5-297.0) with silicified sections.					
		314.9-316.6, moderately feldspathized zone of andesite.					
		316.6-318.7 as above (292.5-297.0)					
318.7	321.7	GRANITE DYKE, as above (291.7-292.5) fine grained.					



Datum

-200'

-400'

-600'

LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry
Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite
Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- C Carbonate
- Ch Chlorite
- Si Silicite

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Go Galena
- As Arsenopyrite

0 25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-35

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. G-D-91-36 SHEET NO. 1

LOCATION _____

TESTS: _____

STARTED July 31, 81

LATITUDE 8+50 North

TESTS: _____

COMPLETED Aug. 2/81

DEPARTURE 40+00 West

FOOTAGE	DIP	BEARING
200	46d	
400	43d	

ULTIMATE DEPTH 406'

ELEVATION _____

LOGGED BY S. Waldie

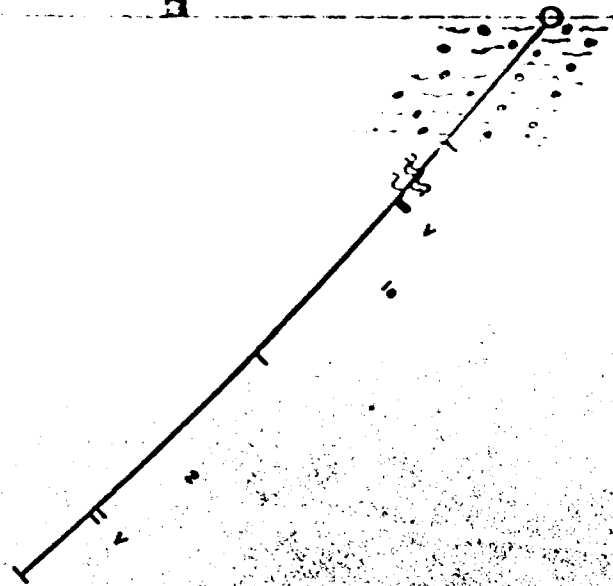
FOOTAGE From To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz./T
0 82.5	CASING					
82.5 238.1	ANDESITE: medium green, fine grained, massive to slightly sheared with quartz-carbonate stringers occasional stringers of epidote. Occasional sections of pale green vesicular andesite (FLOW TOPS?)					
109.1-113.3	FAULT ZONE, moderately to well broken, sections of FAULT GAUGE					
113.3-121.3	as above (82.5-109.1)					
121.3-122.0	zone of quartz stringers (15%) sericite and epidote	1628	121.3	122.0	0.7	Tr.
122.0-123.7	as above (82.5-109.1)					
123.7-124.3	quartz-carbonate vein	1629	123.7	124.3	0.6	Tr.
124.3-161.0	as above (82.5-109.1)					
161.0-161.5	as above (123.7-124.3)	1630	161.0	161.5	0.5	Tr.
161.5-188.0	as above (82.5-109.1)					
188.0-198.5	highly calcareous zone, well sheared with carbonate, quartz-carbonate and sericite					



-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicite

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C₁ Chalcopyrite
- S₁ Sphalerite
- G₁ Galena
- A₁ Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-36

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. D-P-81-37 SHEET NO. 1

LOCATION _____

LATITUDE 13+00 N

DEPARTURE 80+00 W

ELEVATION _____

PLANNING _____

TESTS:

FOOTAGE	DIP	BEARING

STARTED August 3/81

COMPLETED August 3/81

ULTIMATE DEPTH 77.0?

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	60.0	CASING					
60.0	96.0	ANDESITE, medium green colour, fine grained, massive to slightly sheared, with carbonate and silicified material:					
		71.0-77.2 as above, oxide stained and moderately broken up, core recovered.					
		77.0-84.0 lost core.					
		84.0-96.0 as above (71.2-77.0)					
96.0		END OF HOLE casing lost anchor - little or no core recovery- step grid north 50.0'					



DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. G-P-81-37B SHEET NO. 1

LOCATION _____

MARKING _____

STARTED August 4/81

LATITUDE 13+50 N

TESTS:

COMPLETED August 5/81

DEPARTURE 80+00 W

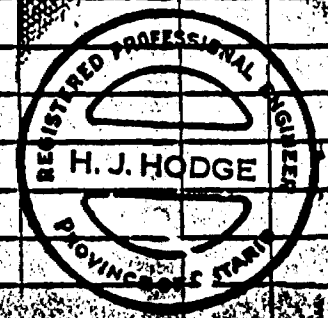
FOOTAGE	DIP	BEARING
200	NA	
400	43d	

ULTIMATE DEPTH 406.0'

ELEVATION _____

LOGGED BY S. Waldie

FOOTAGE		DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
From	To						
0	25.0	CASING					
25.0	77.6	ANDESITE, medium green colour, fine grained, moderately to well sheared with quartz carbonate stringers and blebs. (ALTERED FRAGMENTAL ZONES CARRY MOST CARBONATE) highly calcareous throughout.					
		28.9-32.8 as above (25.0-77.6)	1641	28.9	32.8	3.9'	Tr.
		32.8-54.3 as above, occasional slightly broken, vuggy sections, minor iron oxide.	1642	54.3	58.0	3.7'	Tr.
		54.3-58.0 fractured and contorted quartz stringers.					
		58.0-67.1 as above (25.0-77.6)					
		67.1-70.9 quartz veinlets 15%, minor SHEAR ZONE speckled appearance caused by chlorite blebs.	1643	67.1	70.9	3.8'	Tr.
		70.9-77.6 as above (25.0-77.6)					
77.6	82.0	FELDSPAR PORPHYRY DYKE, medium grey matrix with 1/8" white feldspar phenocrysts. 1% chlorite in matrix-medium grained, massive non-foliated sericite at contact.					
		80.35-80.55 circular cream yellow inclusion with silica replacement boarder					



DIAMOND DRILL RECORD

PROPERTY Callant-Mickle Crow Option

HOLE NO. 37B

SHEET NO. 2

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
		80.55-82.0 as above (77.6-82.0)					
82.0	83.6	ANDESITE, as above (25.0-77.6)					
83.6	87.9	IRON FORMATION, magnetite, laminated chert and chlorite, very well fractured and contorted, with quartz veining and inclusions of a highly silicified wall rock.					
		83.6-85.4 well oxidized section of iron formations, no sulphides present. minor vuggy calcareous sections, slightly broken in places.	1644	83.6	85.4	1.8'	Tr.
		85.4-87.9 as above (83.6-87.9)	1645	85.4	87.9	2.5'	.01
87.9	101.3	ANDESITE? highly siliceous zone, cherty looking cream coloured, material; indication of lamination in places. 10% chlorite alteration, 20% quartz veining throughout. 1-3% pyrite, pyrrhotite and minor chalcopyrite (identification is difficult due to oxidation).					
		87.9-93.1 as above	1646	87.9	93.1	5.2'	Tr.
		93.1-98.0 as above	1647	93.1	98.0	4.9'	Tr.
		98.0-101.3 as above some sericitic sections and zones of chert.	1648	98.0	101.3	3.3'	Tr.
101.3	115.4	ANDESITE, as above (25.0-77.6) occasional silicified bands with sericite alteration. occasional quartz stringers.					
115.4	118.8	PORPHYRY, as above (77.6-82.0)					

DIAMOND DRILL RECORD

PROPERTY Ballantyne, N. S. S. Co. Ltd. HOLE NO. 37R SHEET NO. 2

DEPTH	DIAMETER	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
118.8	406.0	ANDESITE, as above (25.0-77.6) frequent siliceous bands 20-30d to C.A					
		141.6- 142.4 SHEAR ZONE					
		142.4-158.7 as above (118.8-141.6) occasional zones of minor oxidation. frequent stringers of quartz-carbonate, quartz and siliceous material.					
		158.7-161.0 white carbonate vein with minor quartz and chlorite	1649	158.7	161.0	2.3'	Tr.
		161.0-164.2 as above (142.4-158.7)					
		164.2-164.6 quartz carbonate vein	1650	164.2	164.6	0.4'	Tr.
		164.6-165.9 as above (142.4-158.7)					
		165.9-166.5 as above (164.2-164.6)	1651	165.9	166.5	0.6'	Tr.
		166.5-169.5 as above (142.4-159.7) becoming very soft and altered, sericitic					
		169.5-258.0. SHEAR ZONE very punky, chalk-like gouge material, poor core recovery, very little evidence of veining.					
		172.0-176.0 lost core.					
		176.0-226.0 as above (169.5-172.0)					
		226.0-247.8 shearing is less intense, core recovery improves, rock is less altered.					
		247.8-258.0 intense shearing and very poor core recovery.					
		GENERAL VICINITY OF 252.0 feet ground chunks of rusty, quartz, exact footage & characteristics of					

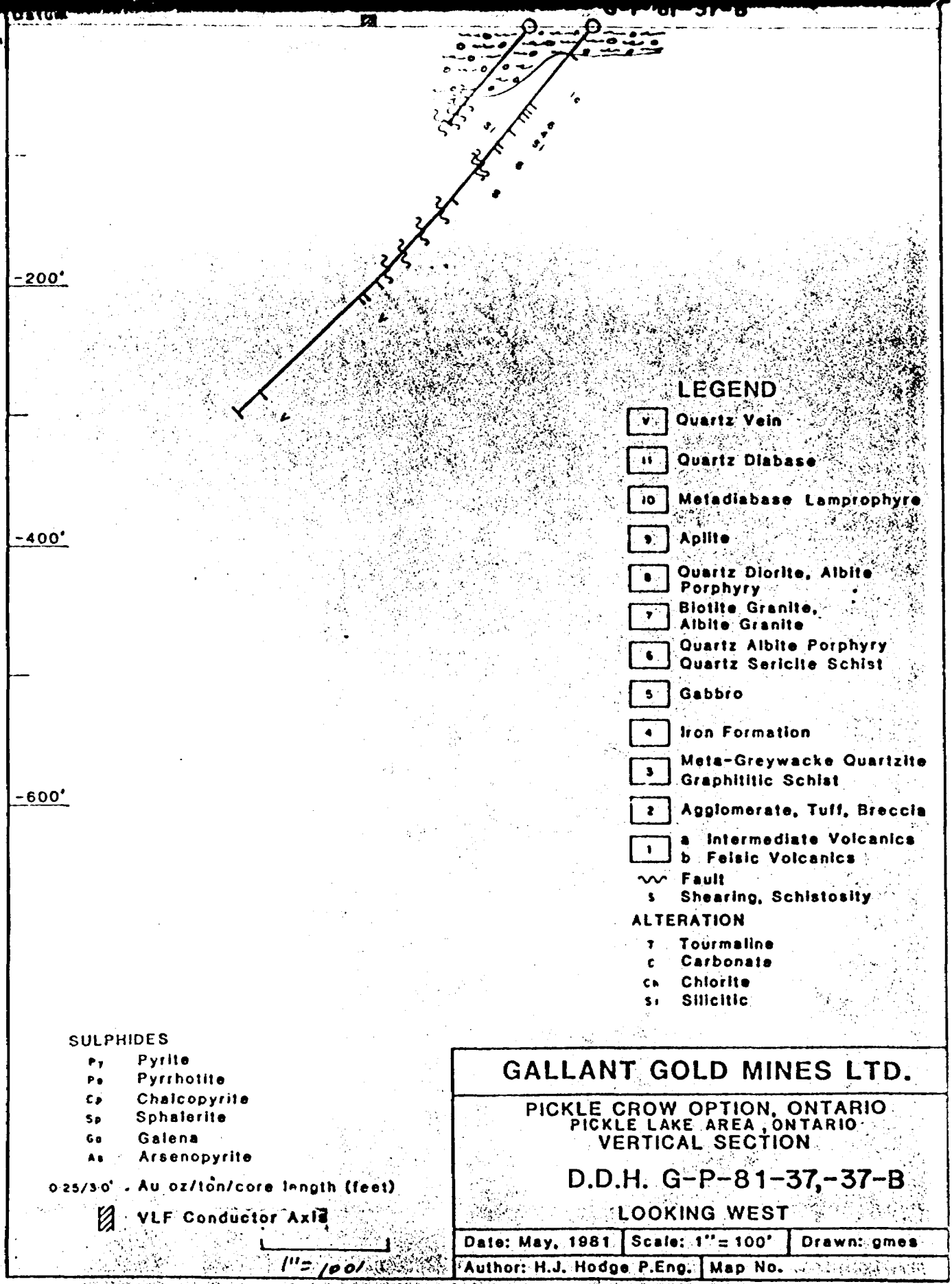
DIAMOND DRILL RECORD

PROPERTY Gallant- Pickle Crow Option

HOLE NO. 37B

SHEET NO. 4

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
	vein impossible to ascertain.	1652	251.0	252.0	1.0'	Tr.
	258.0-275.8 andesite, medium green, well sheared with quartz-carbonate stringers, fine grained, sericite alteration in places, occasional quartz and stringers.					
	275.8-276.0 milky white QUARTZ VEINLET	1653	275.8	276.0	0.2'	Tr.
	276.0-286.2 as above (258.0-275.8)					
	286.2-286.5 QUARTZ-CARBONATE VEIN, 5% tourmaline	1654	286.2	286.5	0.3'	Tr.
	286.6-348.9 as above (258.0-275.8) only pale green moderately sheared.					
	348.9-350.3 QUARTZ-CARBONATE VEIN	1655	348.9	350.3	1.4	Tr.
	350.3-357.9 as above (258.0-275.8) only slightly sheared.					
	357.9-358.5 as above (348.9-350.3)	1656	357.9	358.5	0.6'	Tr.
	358.5-367.4 andesite, medium green, fine grained, occasional fragments. massive to slightly sheared with carbonate.					
	367.4-367.7 as above (348.9-350.3)	1657	367.4	367.7	0.3'	Tr.
	367.7-375.1, as above (358.5-367.4)					
	375.1-375.9 as above (348.9-350.3)	1658	375.1	375.9	0.8'	Tr.
	375.9-376.6 as above (358.5-367.4)					
	376.6-377.3 as above (348.9-350.3)	1659	376.6	377.3	0.7'	Tr.
	377.3-383.2 as above (358.5-367.4)					
	383.2-383.5 QUARTZ VEIN, 90% GLASSY WHITE	1660	383.2	383.5	0.3'	Tr.



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry
Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite
Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- t Tourmaline
- c Carbonate
- ch Chlorite
- si Silicific

SULPHIDES

- Py Pyrite
- Ps Pyrrhotite
- Cs Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.		
PICKLE CROW OPTION, ONTARIO PICKLE LAKE AREA, ONTARIO VERTICAL SECTION		
D.D.H. G-P-81-37,-37-B		
LOOKING WEST		
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. _____ SHEET NO. 2

NO.	DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
		123.5-126.1 as above (123.9-125.8)					
126.1	152.5	QUARTZ SERICITE SCHIST, pale grey-green colour, fine grained, highly sheared, banding is strongly drag folded in places. definite porphyritic texture at contact. numerous narrow quartz and siliceous stringers, highly sericitized.					
		128.9-131.0 as above (126.1-152.5)	1664	129.9	131.1	2.1'	Tr.
		131.0-152.2 QUARTZ SERICITE SCHIST, medium grey colour, general bedding 70d to C.A., numerous areas drag folded at different angles, fault gouge zones to 1" wide at 131.0, 133.0 and 135.0, Possible V.G. at 135.0 in 1/2" quartz vein cut at low angle to C.A.					
		131.9-135.3 sample as above (131.0-152.2)	1665	131.5	135.3	3.8'	Tr.
152.2	153.9	INTERMEDIATE DYKE, medium grey, fine grained, porphyritic with white subhedral phenocrysts to 1/4".					
153.9	210.2	QUARTZ SERICITE SCHIST, as above, slightly lighter colour, porphyritic texture, seems to be Dyke contact phenomenon.					
		156.1-156.6 QUARTZ VEIN.	1666	156.1	156.6	0.5'	Tr.
		156.6-210.2 as above (153.9-210.2) at 166.8-1" QUARTZ VEIN with minor chlorite.					
		168.0-169.0 QUARTZ VEINLETS	1667	168.0	169.0	1.0'	Tr.
		172.1-172.9 Talcose Fault gouge 1/2" quartz veins at 173.1 and 173.5.					

DIAMOND DRILL RECORD

PROPERTY

SHEET NO. 3

HOLE NO. 29

SHEET NO.

3

		SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
	191.0-192.0 QUARTZ VEINS	1668	181.0	182.0	1.0'	Tr.
	192.4-194.9 QUARTZ VEIN ZONE, 50% quartz in irregular veins	1669	192.4	194.9	2.5'	Tr.
	194.9-210.2 scattered quartz veins up to 1/4" of core length. 2" quartz, quartz vein at 203.0 with minor chlorite and sericite.					
210.2	210.6 PORPHYRITIC DYKE, as before					
210.6	252.5 QUARTZ SERICITE SCHIST, as above (153.9-210.2)					
	213.8-214.4 fault gouge zone talcose					
	214.4-217.4 as above (210.6-252.5).					
	217.4-217.6 DARK GREY BAND - foliated DYKE? BASIC VOLCANIC?					
	217.6-220.7 as above (210.6-252.5)					
	220.2-220.3 as above (217.4-217.6)					
	220.3-221.5 as above (210.6-252.5)					
	221.5-223.7 QUARTZ VEIN ZONE, 25% quartz highly silicified.	1670	221.5	223.7	2.2'	Tr.
	223.7-231.4 as above (153.9-210.2)					
	231.4-232.8 INTERMEDIATE DYKE. PORPHYRITIC sub-hedral phenocrysts to 1/4" of core length.					
	232.8-237.1 as before 2" quartz vein at contact.					
	232.8-233.4 2" Quartz vein as described, slightly more sericitized and sheared	1671	232.8	233.4	0.6'	Tr.
	237.1-239.0 40% irregular Quartz Veins	1672	237.1	239.0	1.9'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____

LOCATION _____

 HOLE NO. 28

 SHEET NO. 4

			SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
		239.0-241.6 as above (253.9-270.2)					
		239.4-239.6 ANDESITE (DYKE?) fine grained dark green.					
		239.6-241.6 as above.					
		241.6-242.6 andesite as above (239.4-239.6)					
		242.6-242.9 as above (232.8-237.1)					
		242.7-242.9, Porphyritic grey intermediate Dyke as above. and at 243.0-243.2, 243.4-243.8, 251.7-					
		252.0, 252.3-252.5.					
252.5	266.0	SILICIFIED ZONE, extremely silicified, white to light grey, fine grained, cherty texture, numerous quartz filled veinlets at various angles to C.A. (STOCKWORK TYPE), 5% sericite, occasional traces of pyrite, pyrrhotite					
		252.5-256.0 character sample	1673	252.5	256.0	3.5'	Tr.
		256.0-266.0 as before (252.5-266.0), progressively more sericitic.					
266.0	320.0	QUARTZ SERICITE SCHIST - highly contorted otherwise as before. scattered quartz veins to 1/4"					
		294.6-295.0 MASSIVE QUARTZ VEIN	1674	294.6	295.0	0.4'	Tr.
		295.0-296.8 as before (266.0-320.0)					
		296.8-297.8 QUARTZ VEIN, IRREGULAR WITH DARK CHLORITE?	1675	296.8	297.8	1.0'	Tr.
		297.8-300.5 as before, less contorted shearing at 65-70d to C.A.					

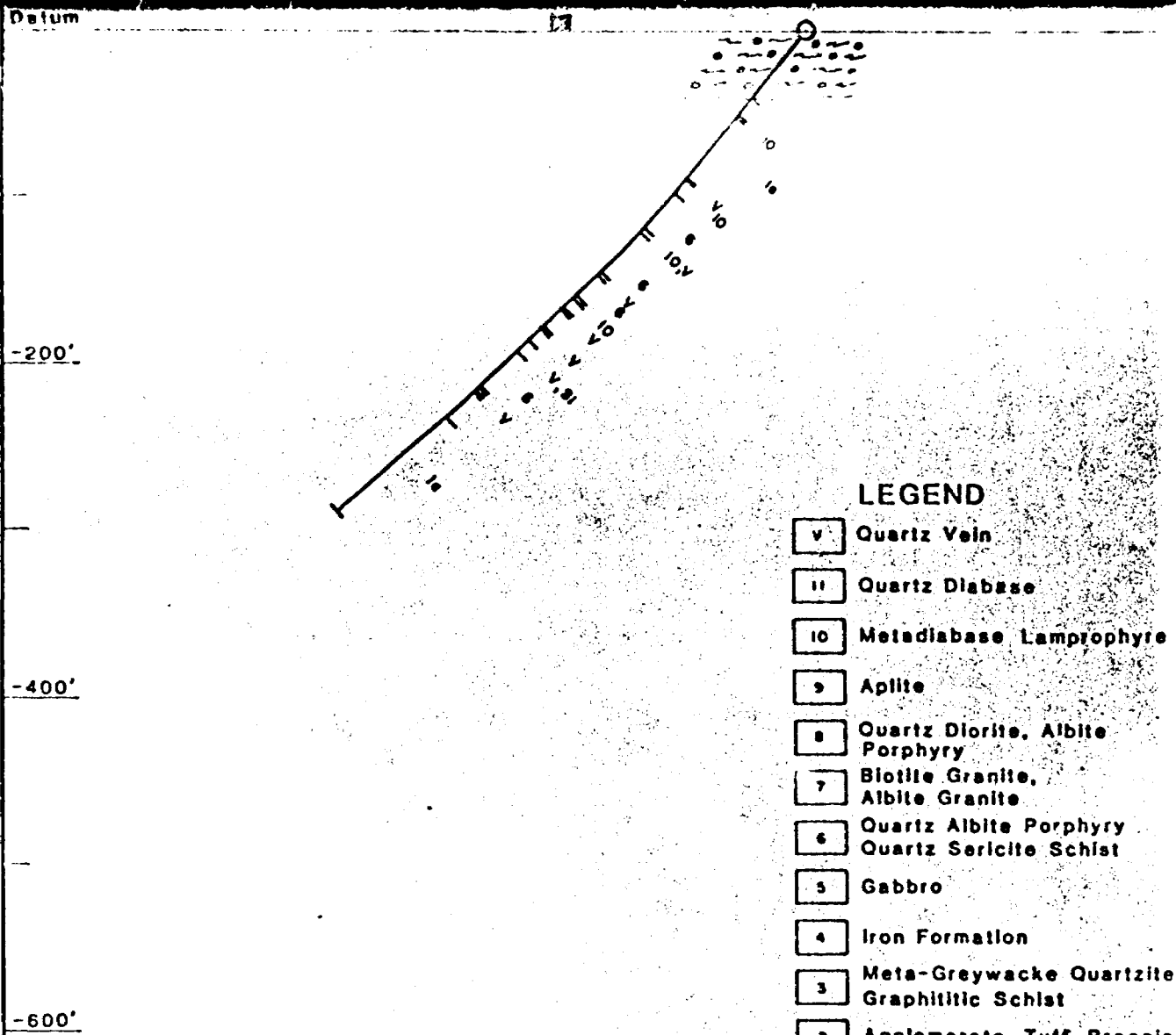
DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 39

SHEET NO. 5

		SAMPLE NO.	FROM	TO	THICK	Oz/T Au
	200.0-201.0 ANDESITE, grey green.					
	201.0-210.2 as above (266.0-320.0)					
	310.2-311.3 BASIC DYKE, Dark Green, massive fine grained.					
	311.3- 320.0 as before (266.0-320.0)					
320.0	406.0 ANDESTIE, medium to dark green, fine grained, moderately sheared at 60-65d to C.A., numerous silicified sections, with quartz veins, & sericite and minor chlorite.					
	325.9-327.5, SILICIFIED ZONE, as before, minor sulphides on fracture faces. pyrite.	1676	325.9	327.5	1.6'	Tr.
	332.0-333.3 as above (325.9-327.5)	1677	332.0	333.3	1.3'	Tr.
	333.3-335.2 andesite, as before (320.0-406.0)					
	335.2-337.8 SILICEOUS ZONES at 335.2-336.0 and					
	336.6-337.8	1678	335.2	337.8	2.6'	Tr.
	337.8-347.2 andesite, as before (320.0-406.0)					
	347.2-351.4 scattered silicified zones with quartz (25%)	1679	347.2	351.4	4.2'	Tr.
	351.4-355.8 as before (320.0-406.0), progressively less silicification.	1680	355.8	357.2	1.4	Tr.
	355.8-357.2 silicified zone with minor quartz veins.					
	357.2-364.5, as above (320.0-406.0)					
	364.5-364.7 silicified zone to quartz, 25% tourmaline, minor pyrrhotite, pyrite, traces of					
	chalcopyrite.	1681	364.5	364.9	0.4'	Tr.



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry
Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite
Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics
b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- c Carbonate
- ch Chlorite
- si Silicific

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cs Chalcopyrite
- Ss Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

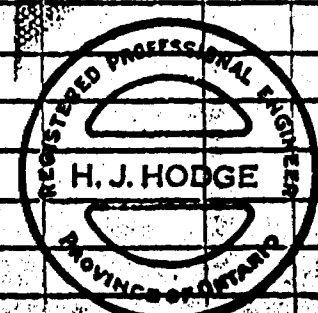
GALLANT GOLD MINES LTD.		
PICKLE CROW OPTION, ONTARIO PICKLE LAKE AREA, ONTARIO VERTICAL SECTION		
D.D.H. G-P-81-38		
LOOKING WEST		
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. _____ RUNNER NO. _____
 LOCATION _____ STARTED August 9/81
 LATITUDE 7+00 S TESTS: COMPLETED August 10/81
 DEPARTURE 88+00 W FOOTAGE DIP BEARING ULTIMATE DEPTH 396.0
 ELEVATION _____ LOGGED BY S. Waldie

FOOTAGE	DIP	BEARING
396	53d	

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	29.4	CASING					
29.4	81.0	ANDESITE medium green colour, fine grained, slightly sheared at various angles to C.A. with carbonate and quartz-carbonate stringers.					
		30.1-30.4 QUARTZ CARBONATE VEIN 50% tourmaline, 40% quartz 10% carbonate.	1682	30.1	30.4	0.3'	Tr.
		30.4-38.0 andesite as before occasional tourmaline veinlets.					
		38.0-43.2, andesite, light green in colour with mottled medium green sections.					
		43.2-43.9 rusty brown siliceous material with irregular quartz stringer to 1/4" minor tourmaline, and sericite, & carbonate.	1683	43.2	43.9	0.7'	Tr.
		43.9-51.9 as before (29.4-88.5) becoming progressively more sheared with carbonate stringers.					
		51.9-58.2 FAULT ZONE, andesite as before, well broken.					
		58.2-68.4 andesite as before, massive and somewhat lighter colour than above.					



DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 29 SURFACE NO. 2

DEPTH	DIAMETER	DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T Au
		68.4-68.7 SULPHIDE ZONE 30% pyrrhotite, minor chalcopyrite, with quartz and chlorite,	1684	68.4	68.7	0.3'	Tr.
		68.7-72.2 andesite as before (29.4-88.5)					
		72.2-72.9 QUARTZ VEIN, irregular quartz with chlorite alteration, minor pyrite and tourmaline					
		30% Quartz.	1685	72.2	72.9	0.7'	Tr.
		72.2-72.9 andesite, medium to dark green, moderately to well sheared with carbonate.					
81.0	88.0	DACITE? medium pea-green colour fine grained, moderately sheared at various angles to C.A.					
88.8	104.5	FLD. QUARTZ PORPHYRY light grey colour highly contorted with numerous miniature folds. White phenocrysts are boudinaged in bands up to 1/4" moderately calcareous. (POSSIBLE TUFF?)					
104.5	110.4	QUARTZ VEIN mainly white quartz, fractures filled with glassy white quartz. minor chlorite, tourmaline less than 1% scattered chalcopyrite.					
		104.5-109.0 as above (104.5-110.4)	1686	104.5	109.0	4.5'	Tr.
		109.0-110.4 as above but well oxidized and primarily carbonate.	1687	109.0	110.4	1.4'	Tr.
110.4	396.0	ANDESITE, medium green, fine grained, moderately sheared with carbonate and quartz-carbonate stringers.					
		114.0-116.0 mottled zone of quartz stringers and sericite.					

DIAMOND DRILL RECORD

PROPERTY Ballantyne

HOLE NO. 39

SHEET NO. 3

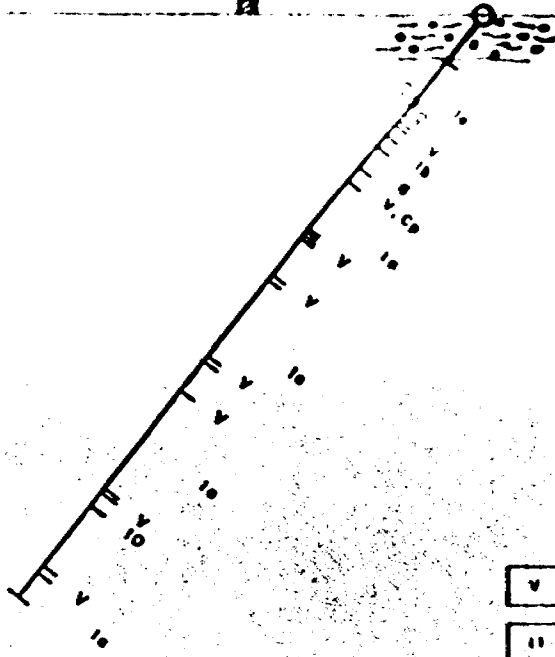
DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	THICK	Oz/T Au
110.0-118.5	as before (110.4-396.0)					
118.5-118.9	as before (104.5-110.4)	1688	118.5	118.9	0.4'	Tr.
118.9-132.2	andesite as before (29.4-81.0)					
132.2-135.1	sheared carbonated zones with chlorite, sericite and minor iron oxide at 132.2-133.1, 133.6-135.1.	1689	132.2	135.1	2.9'	Tr.
135.1-147.7	andesite as before (29.4-81.0) with occasional mottled siliceous zones and zones of carbonate with minor pyrite and chalcopyrite.					
141.3-142.6	SHEAR ZONE slightly broken.					
147.7-148.2	IRREGULAR QUARTZ VEIN glassy white quartz filling fractures in white bull quartz minor chlorite and tourmaline.	1690	147.7	148.2	0.5'	Tr.
148.2-149.4	as before (29.4-81.0)	1691	149.4	150.5	1.1'	Tr.
149.4-150.5	QUARTZ VEIN 90% as above (147.7-148.2)					
150.5-176.9	andesite medium green, fine grained, highly calcareous. slightly sheared with carbonate stringers at various angles but generally 70d to C.C. Quartz-carbonate stringers to 1/4" at 152.0, 160.3, 160.5, 160.8					
176.9-178.3	irregular QUARTZ VEINS to 1 1/4" of core length. sample is 25% quartz 75% andesite	1692	176.9	178.3	1.4'	Tr.
178.3-231.3	as before (150.5-176.9) 1/4" quartz carbonate stringers at 179.9, 182.8, 189.6, 197.7 occasional pyrite in narrow zones of carbonate					

0515m

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplites
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- γ Tourmaline
 - c Carbonate
 - ch Chlorite
 - si Silicific

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C₁ Chalcopyrite
- S₁ Sphalerite
- G₁ Galena
- A₁ Arsenopyrite

0.25/3.0' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-39

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ MINE NO. 0-1-91-40 SHEET NO. 1

LOCATION _____

MINING _____

STARTED Aug. 16/81

LATITUDE 16°00 North

TESTS:

COMPLETED Aug. 17/81

DEPARTURE 100+00 West

FOOTAGE	DIP	BEARING
400	50d	

ULTIMATE DEPTH 406'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	108.0	CASING					
108.0	124.1	IRON FORMATION, interbanded chert and magnetite, moderately to highly oxidized to limonite or hematite, 50% iron bands are deep reddish brown.					
		FAULT ZONE, well broken, core is slightly vuggy in places, banding 45-50d to C.A. Minor pyrite and chalcopyrite.					
		108.0-112.2 as above. (108.0-124.1)	1702	108.0	112.2	4.2	Tr.
		112.2-114.6 as above with some minor chlorite	1703	112.2	114.6	2.4	Tr.
		114.6-117.3, as above (108.0-124.1)	1704	114.6	117.3	2.7	.005
		117.3-123.0, as above, one foot of core lost	1705	117.3	123.0	5.7	Tr.
		123.0-124.1, iron formation as above.	1706	123.0	124.1	1.1	Tr.
124.1	127.6	DIORITE DYKE (GABBRO?), highly altered due to intense shearing, medium green to rusty brown colour, porphyritic with phenocrysts of 50% biotite, 25% hornblende, 25% feldspar, grades to 25% biotite, and 50% hornblende in centre. Chloritic ground mass.					



PROPERTY

HOLE NO. 40

SHEET NO. 2

		DEPTH	START	STOP	THICKNESS	REMARKS
		FEET	FEET	FEET	FEET	
						14.1-147.0 as above 14.1-147.0 some ground and lost core.
127.6	128.9	1707	124.1	127.6	3.5'	Tr.
127.6	128.9	1708	127.6	128.9	1.3'	Tr.
128.9	135.0					LOST CORE
135.0	135.2	1709	135.0	135.2	0.2'	.005
135.2	166.7					DIORITE DYKE? (GABBRO), highly altered and porphyritic, medium green to dark grey, medium grained, massive, 50% biotite phenocrysts, 25% hornblende-phenocrysts, 25% feldspar phenocrysts, at contact zone. 50% hornblende phenocrysts, 25% feldspar phenocrysts, 25% biotite in centre
		1710	135.2	139.0	3.8'	Tr.
		1711	139.0	142.0	3.0'	Tr.
		1712	142.0	146.2	4.2'	Tr.
						146.2-162.1, Diorite as above, (135.2-166.7)
		1713	162.1	166.7	4.6'	Tr.
166.7	168.3					ANDESITE: medium green colour, fine grained, slightly sheared with brown biotite, minor sericite, and carbonate stringers. highly calcareous, speckled with flecks of magnetite to 1%.
168.3	179.0					DIORITE DYKE (GABBRO?) as above, (135.2-166.7)
						178.1-179.0 highly SHEARED, Ground core-RUBBLE.
179.0	212.5					ANDESITE: as before (166.7-168.3) magnetite flecks are no longer present. Highly SHEARED and BROKEN.

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 40

SHEET NO. 2

		SAMPLE NO.	FROM	TO	THICK	Oz/T Au
	179.0-182.1 as above (179.0-212.5)	1714	179.0	182.1	3.1'	Tr.
	182.1-185.1 as above (179.0-212.5)					
	185.1-188.1 as above but shearing is less intense					
	¼" quartz stringer at 145.2. Quartz-carbonate stringer at 186.1 and 188.0. Highly sheared and broken-186.4-187.2.	1715	185.1	188.1	3.0'	Tr.
	188.1-190.9 andesite, medium green, fine grained slightly sheared, with carbonate stringers.					
	190.9-199.3 SHEAR ZONE, 192.5-196.1 LOST CORE					
	199.3-207.9 andesite as before (188.1-190.9)					
	207.9-212.5 SHEAR ZONE, slightly to highly sheared with intermittent sections of RUBBLE and more massive core.					
212.5	226.9 DIORITE DYKE (GABBRO) as before, not as highly altered, 5-10% biotite, 5-10% hornblende, 25% feldspar, chloritic ground mass, medium grained, massive.					
	212.5-213.9, (212.5-213.2) HIGHLY SHEARED.					
	(212.8-213.0) cherty looking quartz vein.					
	(213.2-213.9 feldspar porphyry, massive	1716	212.5	213.9	1.4'	Tr.
	213.9-266.9 DIORITE as above (212.5-226.9)					
226.9	263.5 ANDESITE, pale green colour, slightly sericitic, fine grained, slightly sheared with carbonate and quartz-carbonate stringers, occasional cherty looking silicious zones, Occasional suggestions					

DIAMOND DRILL RECORD

PROPERTY _____

Location - Diablo Creek

HOLE NO. 40

SHEET NO. 4

DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
of brecciation.					
226.9-227.6, irregular quartz stringers to ½"					
minor pyrite and magnetite.	1717	226.9	227.6	0.7'	Tr.
227.6-231.7 as above					
231.7-233.5, silicified zone, 231.8-231.9, irreg-					
ular carbonate stringers. 233.1-233.5	1718	231.7	233.5	1.8'	.005
233.5-239.0 as above (226.9-263.5)					
239.0-240.0 carbonate veinlets, 239.5-239.9	1719	239.0	240.0	1.0'	.005
laminated chert, with tiny drag folded quartz					
stringers at various angles to C.A.					
240.0-241.0 as above (226.9-263.5)					
241.0-243.0 SHEAR? ZONE - Lost core					
243.0-243.6, SHEAR ZONE					
243.6-249.2 as above (226.9-263.5)					
249.4-250.9 irregular carbonate, quartz stringers					
with fractured and contorted chert, 1-3% pyrite					
5-8% magnetite	1720	249.4	250.9	1.5'	.005
250.9-253.3, as above (226.9-263.5)					
253.3-254.3 SHEAR ZONE					
254.3-256.2 as above (226.9-263.5)					
256.2-257.6 well sheared with irregular quartz-	1721	256.2	257.6	1.4'	.005
carbonate veins to 1". 1-3% pyrite, minor sericite.					
257.6-258.5 as above (226.9-263.5)					
258.5-260.0 as above (256.2-257.6)	1722	258.5	260.0	1.5'	.005

DIAMOND DRILL RECORD

PROPERTY Callahan-Black-Crow-Gardner

HOLE NO. 40

SHEET NO. 5

		DEPTH	DIAMETER	FEET	OZ/T	AU
	260.0-263.5 as above (226.9-263.5)					
263.5	271.1	DIORITE DYKE, Dark grey porphyritic texture, medium grained, massive, 25% hornblende, 5% biotite, 20% feldspar, Medium green chloritic matrix.				
271.1	315.3	ANDESITE, medium green colour, slightly to moderately sheared with carbonate stringers. Occasional pyrite blebs. Brecciated sections have hazy pale green fragments to 2 1/4" core length				
	304.8-305.9, well sheared with quartz-carbonate veins to 1/2"	1723	304.5	305.9	1.4'	.005
	305.9-308.8, as above (271.1-315.3)					
	308.8-310.0, as above (304.8-305.9)	1724	308.8	310.0	1.2'	.005
	310.0-315.3					
315.3	324.8	DIORITE DYKE (GABBRO?); porphyritic texture with phenocrysts of hornblende and biotite, dark grey, fine grained ground mass. Minor feldspar, 1% disseminated pyrite.				
324.8	366.3	ANDESITE, pale green, fine grained, slightly to moderately sheared, with carbonate stringers, 1% pyrite blebs at dyke contact. Occasional dark bands of andesite. (pillow borders?) shearing is at various angles to C.A.				
	343.6-344.0, quartz-carbonate vein	1725	343.6	344.0	0.4'	.005
	344.0-359.5, as above (324.8-368.6)					

DIAMOND DRILL RECORD

PROPERTY

Callant-Pickle Crow Station

HOLE NO.

40

CURT NO.

6

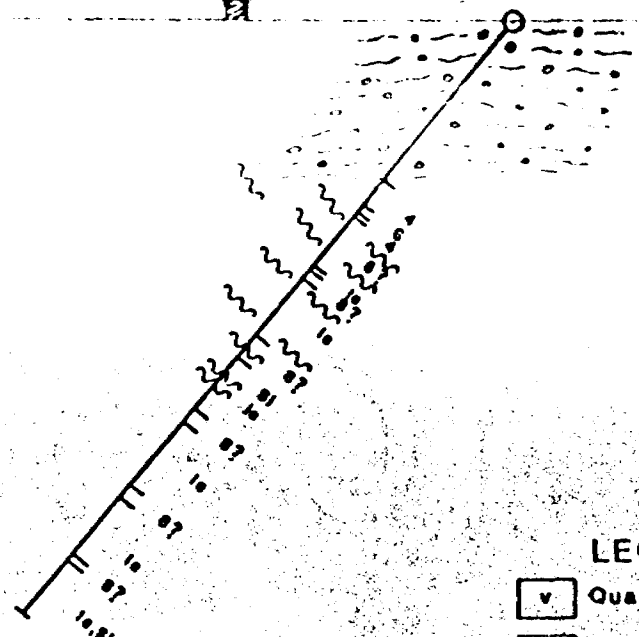
DEPTH	DESCRIPTION	SAMPLE NO.	TOP	BASE	THICKNESS	Oz/T Au
	359.5-359.7 as above (343.6-344.0)	1726	359.5	359.7	0.2'	Tr.
	359.7-365.5, as above (324.8-368.6)					
	365.5-365.7 Quartz-carbonate vein	1727	365.5	365.7	0.2'	Tr.
	365.7-366.3, as above (324.8-368.6)					
366.3	366.6 DIORITE (GABBRO? (DYKE as before)					
368.6	406.0 ANDESITE as before (324.8-368.6)					
	377.4-378.9, well sheared zone of irregular quartz-carbonate veins	1728	377.4	378.9	1.5'	Tr.
	378.9-380.6 andesite as before but with well brecciated sections (324.8-368.6)					
	380.6-381.2, silicified zone cut by quartz and carbonate stringers.	1729	380.6	381.2	0.6'	.005
	381.2-382.6 as before (378.9-380.6)					
	382.6-383.0, sheared with quartz-carbonate stringers	1730	382.6	383.0	0.4'	Tr.
	383.0-398.9 andesite as above (324.8-368.6)					
	398.7-401.1 Pink coloured silicious zones cut by infrequent and irregular quartz stringers, minor tourmaline, sericite and chlorite.	1731	398.7	401.1	2.4'	Tr.
	401.1-401.9, as above (324.8-368.6)					
	401.9-402.9, as above (398.7-401.1)	1732	401.9	402.9	1.0'	Tr.
	402.9-406.0 as above (398.7-401.1)					
406.0	End of Hole					

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicific

SULPHIDES

- Py Pyrite
- Pr Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1"=100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-40

LOOKING WEST

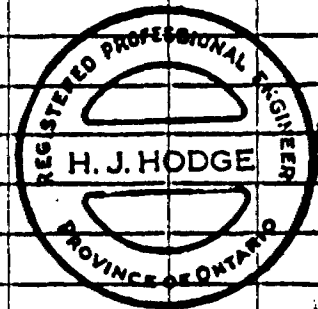
Date: May, 1981 Scale: 1"=100' Drawn: gmes

Author: H.J. Hodge P.Eng. Map No.

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. _____
 LOCATION _____ STARTED _____
 LATITUDE _____ LONGITUDE _____ COMPLETED Aug. 21/81
 DEPARTURE 74+00 West DIP _____ BEARING _____
 ELEVATION _____ 400 _____ 40d _____
 500 _____ 36d _____ ULTIMATE DEPTH 603'
 LOGGED BY S. Waldie

FOOTAGE From	To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	85.0	Casing					
85.0	172.0	QUARTZ PORPHYRY: fined grained ground mass with quartz phenocrysts to ¼". Massive, small dark green (inclusions?) phenocrysts of chlorite, slightly sericitized, slightly to moderately schistose, 0-10% disseminated pyrite, with some core sections moderately oxidized to reddish brown colour. Phenocrysts vary from 1% to 10%					
		85.0-86.4, as above, moderately sheared and broken up.					
		86.4-86.9, quartz vein 80%, broken up. milky white quartz, less than 1% pyrite	1733	86.4	86.9	0.5'	Tr.
		86.9-88.1, oxidized porphyry as above (85.0-86.4)	1734	86.9	88.1	1.2	Tr.
		88.1-94.6, porphyry, massive as before (89.4-90.0), shear zone					
		94.6-95.9, quartz veins and silicified porphyry, minor sericite, chlorite, and oxidized veinlets, vuggy sections occur irregularly	1735	94.6	95.9	1.3'	Tr.



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 41

CURR. NO. 2

		SAMPLE NO	TO	FEET	Oz/T Au	
	99.9-99.7, PORPHYRY, massive as before					
	99.4-101.2, well oxidized porphyry	1736	99.4	101.2	1.8'	Tr.
	101.2-103.5, PORPHYRY, massive as before					
	103.5-108.3, well oxidized porphyry-shear zone					
	from 105.8-107.7	1737	103.5	108.3	4.8'	Tr.
	109.3-110.1, as above (103.5-108.3)	1738	108.3	110.1	1.8'	Tr.
	110.1-110.8, PORPHYRY, massive as before					
	110.8-115.3, as above (103.5-108.3)	1739	110.8	115.3	4.5'	.005
	115.3-119.4, PORPHYRY, massive as before					
	119.4-119.9, quartz vein 1/4" at 15d to C.A.	1740	119.4	119.9	0.5'	Tr.
	119.9-122.0, PORPHYRY, massive as before					
	122.0-125.6, well oxidized, cut with quartz					
	stringers in shear zone 12.4-125.1. Sericite					
	and dark green chlorite in veined zone.	1741	122.0	125.6	3.6'	Tr.
	125.6-172.0, PORPHYRY, massive as before					
	slightly oxidized 125.6-127.6					
	134.4-149.5, SHEAR ZONE, moderately to well					
	oxidized, moderately to very well sheared and					
	broken up.					
	149.5-172.0, oxidized sections at 157.9-158.4,					
	161.5-162.1, 163.8-164.9, 166.0-166.3					
172.0	174.1	ANDESITE: pale grey green colour, fine grained,				
		slightly sheared with carbonate and quartz-car-				
		bonate stringers of various angles to C.A.				
		slightly silicified at contacts, slightly sericitic				

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. _____

DEPTH NO. _____

		SAMPLE NO.	START	STOP	DEPTH	Oz/T Au
IN PLACES						
174.1	178.1					
QUARTZ PORPHYRY, as before (85.0-172.0), only no disseminated pyrite.						
174.5-175.4, silicified pale grey with black chlorite? minor sericite and quartz.		1742	174.5	175.4	0.9'	Tr.
175.4-176.5, porphyry, as above (174.1-178.1)						
176.5-177.2, SILICIFIED ZONE, as above (174.5-175.4)		1743	176.5	177.2	0.7	Tr.
177.2-178.1, Porphyry as above (174.1-178.1)						
178.1	181.5					
ANDESITE: medium green to rusty dark green, slightly sheared and broken. Fine grained, massive.						
181.5	317.5					
QUARTZ PORPHYRY as before, oxidized sections at 181.5-182.0, 185.8-187.0, 190.0-191.0						
192.1-194.2 moderately to very well oxidized with minor vuggy sections, slightly silicified.		1744	192.1	194.2	2.1'	Tr.
194.2-207.0 Porphyry as before (85.0-172.0) oxidized sections at 196.6-197.7, 201.0-201.8						
207.0-217.0 porphyry is becoming slightly more schistose, less than 1% pyrite in blebs up to 1/8"						
210.0-213.6, as above (207.0-210.0) with quartz stringers to 1/4" at 210.1, 212.9, 213.2		1745	210.0	213.6	3.6'	Tr.
217.0-311.0 Porphyry as above (85.0-172.0) occasional narrow silicified zones.						

		TABLE NO.	FROM	TO	THICK	Oz/T Au
	241.9-242.1 quartz vein, 1/2" milky white	1746	241.9	242.1	0.2'	Tr.
	254.3-256.0 SILICIFIED ZONE cut with milky white quartz	1742	254.3	256.0	1.7'	Tr.
	282.2-284.0 irregular silicified zone	1748	282.2	284.0	1.8'	Tr.
	311.0-317.5, ALTERED QUARTZ PORPHYRY, becoming moderately banded at 40d to C.A. slightly silicified, minor sericite, chlorite, carbonate, scattered quartz stringers and bands, porphyritic texture is not obvious.					
317.5-327.4	ANDESITE: dark to medium green colour. Fine grained, well banded with sericite and irregular silicified zones, tiny carbonate stringers.					
	317.5-318.0, quartz vein, milky white, dark chlorite inclusions, minor tourmaline, less than 1% finely disseminated pyrite	1749	317.5	318.0	0.5'	Tr.
	318.5-319.4, quartz vein as above	1750	318.5	319.4	1.9'	Tr.
	319.4-323.1, andesite as above, quartz veins at 322.4, 322.6, 323.0 irregular oxidized vuggy sections	1751	319.4	323.1	3.7'	Tr.
	323.1-323.9, as above (319.4 -323.1) quartz vein at 323.7-323.9					
	324.1-325.2 irregular oxidized stringers and minor vuggy sections	1753	323.1	325.2	2.1'	Tr.
	325.2-326.9, andesite as above, with occasional numerous quartz stringers at 325.5, 325.7, 326.1, 326.5					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. _____

DATE _____

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Oz/T A"
		326.9-327.4, milky quartz veins at 326.9 and					
		327.1-327.3	1754	326.9	327.4	0.5'	Tr.
327.4	347.3	ANDESITE (BRECCIA?) dark to medium green colour					
		with suggestion of pale to grey green fragments,					
		slightly sheared with two types of quartz carbonate					
		stringer. One type very narrow fracture fill					
		at various angles with blue quartz; 2nd type					
		with white quartz at various angles to C.A. 1%					
		disseminated pyrite.					
		329.1-329.3, milky white quartz vein.	1755	329.1	329.3	0.2	Tr.
		329.3-331.9, as above (327.4-347.3).					
		331.9-332.7, irregular quartz stringer with vein					
		at 332.1-332.2	1756	331.9	332.7	0.8'	Tr.
		332.7-333.5, as above (327.4-347.3)					
		333.5-334.3, quartz stringers, sericite bands					
		(silicified andesite?), quartz vein 334.2-334.3.					
		3-5% pyrite and minor chalcoppyrite	1757	333.5	334.3	0.8	Tr.
		334.3-340.7, andesite as above (327.4-347.3),					
		blue fracture fill quartz not evident					
		340.7-341.5, irregular quartz stringers, silicified					
		section, 1 to 3% pyrite	1758	340.7	341.5	0.8	Tr.
		341.5-343.4 andesite as above					
		343.4-343.8, milky white quartz vein	1759	343.4	343.8	0.4'	Tr.
		343.8-344.4, andesite as above					

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 47

SHEET NO. 6

		SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
	344.4-347.3 well banded with irregular quartz and carbonate stringers 30% sericite, 1% disseminated pyrite.	1760	344.4	347.3	2.9'	Tr.
347.3	582.2 ANDESITE: medium green colour, slightly sheared with quartz stringers, fine grained, moderately calcareous, less than 1% disseminated pyrite.					
	354.3-357.8, well sheared with irregular quartz veins to 1". sericite and chlorite alteration, less than 1% disseminated pyrite, oxidized vuggy section (calcareous) at 355.4	1761	354.3	357.8	3.5	Tr.
	357.8-385.9, ANDESITE: dark green, fine grained, moderately sheared with irregular quartz stringers, moderately calcareous. 1% pyrite.					
	358.4-360.5, as above (357.8-385.9)	1762	358.4	360.5	2.1'	Tr.
	360.5-361.3, as above (357.8-385.9)					
	361.3-361.8, milky white quartz vein, 1% finely disseminated pyrite, minor chlorite & tourmaline	1763	361.3	361.8	0.5'	Tr.
	361.8-3627 as above (357.8-385.9)					
	362.7-363.5, irregular quartz veins as above to 2" (361.3-361.8)	1764	362.7	363.5	0.8'	Tr.
	363.5-366.5 irregular quartz veins to 1 1/2", minor sericite, chlorite, and tourmaline, less than 1% disseminated pyrite	1765	363.5	366.5	3.0'	Tr.
	366.5-367.9 as above (357.8-385.9)					

DIAMOND DRILL RECORD

PROPERTY _____

LOCALITY _____

HOLE NO. 41

SHEET NO. 8

	SAMPLE NO	FROM	TO	DEPTH	Oz/T Au
390.3-391.3, as above (385.9-603.0)	1772	390.3	391.3	1.0'	.005
391.3-394.4 as above (385.9-390.3)					
394.4-395.8 quartz vein in silicified zone, 1% pyrite, chlorite alteration and minor tourmaline	1773	394.4	395.8	1.4'	Tr.
394.4-398.2 as above (385.9-390.3)					
398.2-398.5 silicified zone with milky white stringers and blobs of quartz, 1-3% pyrite	1774	398.2	398.5	0.3	Tr.
398.5-431.0 as above (385.9-390.3)					
431.0-431.4 irregular quartz vein with 20% epidote and minor tourmaline and chlorite	1775	431.0	431.4	0.4	Tr.
431.4-431.9 as above (385.4-390.3)					
431.9-433.3 irregular quartz-carbonate veins at various angles to C.A.	1776	431.9	433.3	1.4'	Tr.
433.3-433.6 milky white quartz vein 433.3 -433.4, 1% pyrite, minor sphalerite?					
433.6-465.5 andesite as above (385.4-390.3), occasional quartz-carbonate stringers to 2", irregular and discontinuous.					
465.5-466.2, quartz vein with silicious andesite? massive tourmaline, less than 1% pyrite	1777	465.5	466.2	0.7'	Tr.
466.2-498.5 andesite (DACITE?) BRECCIA as before, only dark green with pale green (fragments?)					
498.5-499.9, well sheared with milky white quartz, irregular & discontinuous to 1/4". 1-3% finely disseminated pyrite & minor chalcopyrite, minor					

DIAMOND DRILL RECORD

PROPERTY Gallant-Buckle Creek Quarry

HOLE NO. 41

SHEET NO. 9

	SAMPLE NO	FROM	TO	DEPTH	Oz/T
sericite, chlorite and tourmaline	1778	498.5	499.9	1.4'	.005
499.9-500.9 QUARTZ VEIN, grey, cut by fracture filled with milky white quartz, tourmaline chlorite and sericite stringers, finely disseminated pyrite and minor chalcopyrite. 1-3% total sulphides					
500.9-503.1, irregular quartz stringers at 501.5, 502.2, 502.8, 503.0 less than 1% disseminated pyrite	1779	499.9	500.9	1.0'	.005
503.1-505.9 andesite as above (460.2-498.2)					
505.9-506.4, milky white irregular quartz vein, dark green chlorite, minor tourmaline, 1-3% pyrite					
minor pyrrhotite? and minor ubiquitous arsenopyrite?	1788	500.9	503.1	2.2'	Tr.
506.4-512.0 andesite as above (466.2-498.2)					
grey milky white quartz veins at 508.7-508.85, 509.65-509.8, 510.1-510.2, various tiny quartz stringers occur at 50d -60d to C.A.					
512.9-514.7, well altered to sericite with grey white quartz veins at 513.0-513.2, 513.4, 513.7, 514.0, 514.3-514.7	1781	512.9	514.7	1.8'	Tr.
514.7-521.3 andesite as before (466.2-498.2)					
grey/white quartz, some with carbonate, at 517.7					
518.8-519.0, 519.7-519.8					

DIAMOND DRILL RECORD

PROPERTY _____

Location: _____

HOLE NO. 41

SHEET NO. 10

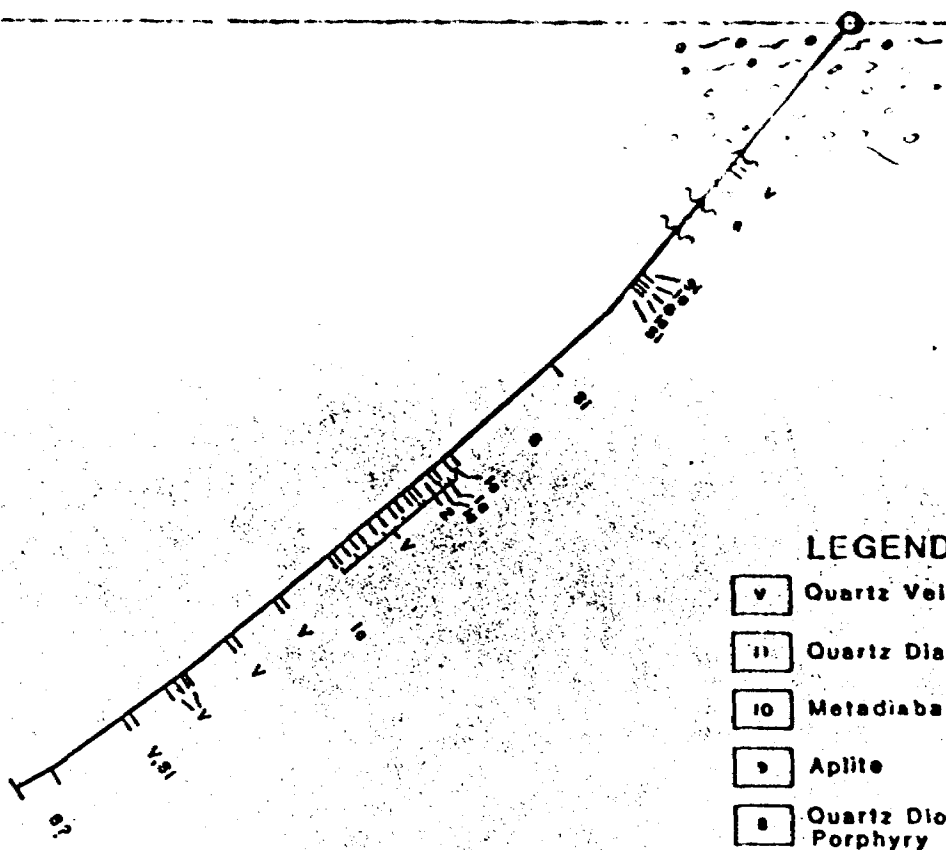
DEPTH	DESCRIPTION	SAMPLE NO	TOP	BO	DEPTH	Oz/T Au
	521.3-526.4, well sheared with numerous milky white grey/white quartz veins and stringers at various angles to C.A. 226.0-226.4 milky white quartz vein, minor tourmaline and chlorite 1% pyrite all through	1782	521.3	526.4	5.1'	.005
	526.4-533.0 andesite, fine grained, dark green, slightly sheared with white quartz stringer at various angles to C.A.					
	533.0-537.3 SILICIFIED, with grey quartz cut by milky white quartz veins, banded at various angles with tourmaline, chlorite, and minor sericite. 1-3% pyrite and minor chalcopyrite	1783	533.0	537.3	4.3'	.005
	537.3-541.7, as above (533.0-537.3)	1784	537.3	541.7	4.4'	Tr.
	541.7-543.2 as above (526.4-533.0)					
	543.2-545.3 as above (521.3-526.4)	1785	543.2	545.3	2.1'	Tr.
	545.3-554.4 andesite as above (526.4-533.0)					
	554.4-558.6 dark green to light grey andesite, fine grained, moderately to well sheared with milky white quartz stringers contorted at various angles to C.A. less than 1% disseminated pyrite	1786	554.4	558.6	4.2'	.005
	558.6-568.4 andesite as above (514.7-521.3) 1/4" stringers at 561.1 of white quartz					
	568.4-569.7 silicified zone, grey quartz with white quartz veins, tourmaline, minor chlorite 1% pyrite	1787	568.4	569.7	1.3'	Tr.

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - ii Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry
Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite
Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics
b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ca Chlorite
 - si Silicitic

SULPHIDES

- P_y Pyrite
- P_o Pyrrhotite
- C_p Chalcopyrite
- S_p Sphalerite
- G_a Galena
- A_s Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-41

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. GEN-21-81 SHEET NO. _____

LOCATION _____

DIPPING _____

STARTED Aug. 23/81

LATITUDE 9+80 South

TESTS:

COMPLETED Aug. 25/81

DEPARTURE 72+00 West

FOOTAGE	DIP	BEARING
200	46d	
400	41d	
600	40d	

ULTIMATE DEPTH 606'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	90.0	CASING					
90.0	251.6	QUARTZ PORPHYRY. pale grey to pale green with rusty red oxidized zones. fine grained with 1-10% white to grey quartz phenocrysts to 1/4". massive small dark green inclusions? or phenocrysts of chlorite to 1/8". Slightly sericitized, slightly to moderately schistose. matrix is moderately chloritic, banding at 40d-45d to C.A. intermittant zones of up to 1% disseminated pyrite.					
		90.0-96.8, as above					
		96.8-100.3, oxidized slightly vuggy zone with moderate shearing at 97.9-98.8					
		100.3-108.6 as above.					
		108.7-110.1, oxidized, slightly vuggy zone.					
		110.1-110.4, milky white quartz vein.	1789	110.1	110.4	0.3'	Tr.
		110.4-112.1, oxidized zone as above, (108.7-110.1)					



DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 47

CHINA NO. _____

	SAMPLE NO.	FROM	TO	THICK	Gz/T
174.9-175.1, 1/4" quartz vein	1795	174.9	175.1	0.2	Tr.
175.1-179.5, as above (161.5-168.5)					
179.5-181.6 SHEAR ZONE, slightly to moderately sheared.					
181.6-189.0, Porphyry as above, less banding, less schistose, less than 1% quartz phenocrysts. Occasional narrow oxidized zones.					
189.0-202.0, porphyry as above (139.9-181.6) banding 40d to C.A.					
189.0-190.0 oxidized zone					
191.5-193.5, oxidized, slightly vuggy zone with shearing at 192.2-193.2, silicified blebs occur irregularly	1796	191.5	193.5	2.0	Tr.
202.0-225.4, Porphyry becoming medium green colour, slightly sheared with lightly drag folded quartz stringers					
207.0-209.4, as above, moderately oxidized.					
213.2-213.8, silicified zone, cherty looking grey to red oxidized quartz cut by white quartz fracture fillings, minor stringers of tourmaline	1797	213.2	213.8	0.6'	Tr.
214.5-214.9, as above (213.2-213.8)	1798	214.5	214.9	0.4'	Tr.
223.8-225.4, silicified zone cut by white quartz stringers. minor sericite & oxidized blebs.	1799	223.8	225.4	1.6'	.065

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 42 SHEET NO. 4

	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T A'
	225.4-251.6, Porphyry as before, pale green massive with rare drag folded, quartz stringer, banding at 40d to C.A.					
	226.4-235.4, slightly to moderately oxidized minor vuggy sections.					
	236.7-237.2, silicified zone with white quartz	1800	236.7	237.2	0.5'	.01
	243.9-244.2 ½" white quartz vein	5779	243.9	244.2	0.3'	Tr.
251.6 261.7	DIORITE DYKE (GABBRO?) Dark green almost black, medium grained, porphyritic texture, phenocrysts of hornblende 30%, minor biotite phenocrysts, 30% feldspar, 20% chlorite, less than 1% pyrite					
261.7 416.8	QUARTZ PORPHYRY as before (90.0-251.6)					
	297.2-307.4, moderately oxidized, SHEAR ZONE moderately broken up.					
	299.3-299.7, grey quartz vein? or silicified zone? appears to resemble vein material	5780	299.3	299.7	0.4'	Tr.
	507.4-328.7, Porphyry as before (90.0-251.6) but light grey colour with silicious bands.					
	310.3-315.4, as above but well oxidized. SHEAR ZONE					
	312.2-313.7, SHEAR ZONE.					
	313.2-315.4, oxidized zone					
	315.4-328.7, porphyry as above banding at 40d - 50d to C.A.					

DIAMOND DRILL RECORD

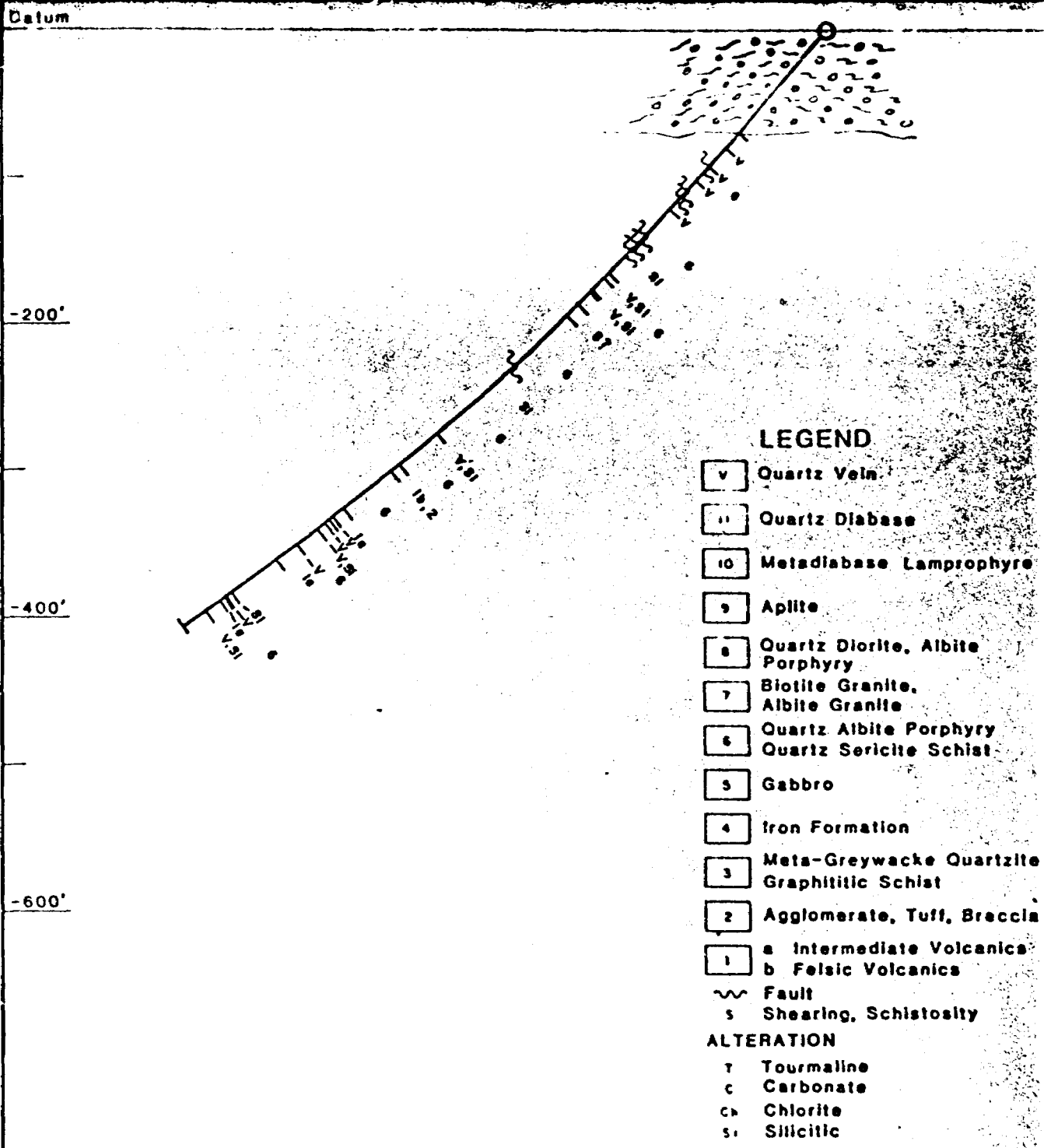
PROPERTY _____

LOCALITY _____

HOLE NO. 42

SHEET NO. 6

DEPTH		DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T Au
418.7	466.8	QUARTZ PORPHYRY as before. (90.0-251.6) light to medium green colour, slightly sheared with narrow quartz stringers, occasional stringers lightly drag folded at various angles					
		430.0-466.8, porphyry as above but light to medium grey.					
466.8	478.1	ANDESITE: Dark green colour, fine grained, slightly sheared with carbonate stringers, minor drag folded quartz stringers, highly calcareous					
		472.7-473.9, Zone of irregular blue-grey quartz veining, 1-3% pyrite and minor chalcopyrite, 30% quartz	5783	472.7	473.9	1.2'	005
		476.6-478.1, irregular quartz stringers	5791	476.6	478.1	1.5'	Tr.
		476.6-477.6, 477.6-478.1, milky white quartz vein with chlorite and minor tourmaline					
478.1	506.3	QUARTZ PORPHYRY as before (90.0-251.6), light to medium green colour, banding at 30d to C.A.					
		479.2-479.8, milky white quartz vein 479.1-479.6 silicified veinlet- 479.7-479.8	5784	479.2	479.8	0.6'	Tr.
		484.1-484.8, narrow quartz stringers	5785	484.1	484.8	0.7'	Tr.
		486.1-487.1, Brecciated silicified zone, fracture filled with 40% milky white quartz. minor chlorite and sericite.	5766	486.1	487.1	1.0'	005



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry, Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite, Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics, b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- C Carbonate
- Ch Chlorite
- Si Silicite

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C₁ Chalcopyrite
- S₁ Sphalerite
- G₁ Galena
- A₁ Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

/ / / / VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-42

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge, P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY Canada - Crownshore, Ontario HOLE NO. G-P-82-12 SHEET NO. 1

LOCATION Crow Shore 10' West
 LATITUDE 6+10 North
 DEPARTURE 9+50 West
 ELEVATION _____

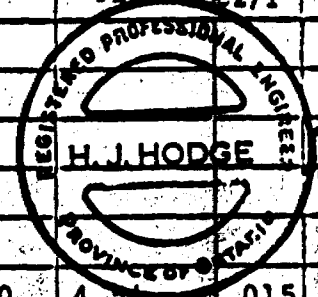
BEARINGS Grid South DIP -50d

TESTS:

FOOTAGE	DIP	BEARING
200	42d	
400	39d	
600	39d	

STARTED Aug. 26/81
 COMPLETED Aug. 27/81
 ULTIMATE DEPTH 606'
 LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au.... Gz/T
0	26.0	CASING					
26.0	26.5	ANDESITE, medium green, fine grained, massive					
26.5	47.4	IRON FORMATION, interbedded magnetite and chert, 50% magnetite, 10-15% pyrrhotite, very minor pyrite. 50d-55d to C.A. minor inclusions of chlorite.	873	26.5	31.0	4.5'	.015
		31.0-32.9, contorted I.F. 20% pyrrhotite, minor pyrite	5792	31.0	32.9	1.9'	.0'5
		32.9-33.3 milky white quartz vein - 10% chlorite minor tourmaline, 1-3% pyrrhotite, minor pyrite					
		chalcopyrite, possible arsenopyrite, <u>visible gold?</u>	5793	32.9	33.3	0.4'	.01
		33.3-36.0, I.F. as above (26.5-31.0)	5794	33.3	36.0	2.7'	.025
		36.0-40.2, " " " " "					
		Occasional bands of massive pyrrhotite	5795	36.0	40.2	4.2	.005
		40.2-45.1, I.F. laminated chert 40.2-43.7, 0-10d to C.A. minor chlorite, conformable to banding, 10% pyrrhotite and minor pyrite.	5796	40.2	45.1	4.9'	.005
		46.0-47.4, SHEAR ZONE, moderately broken up (Weak I.F.)	5797	46.0	47.4	1.4'	.015



DIAMOND DRILL RECORD

PROPERTY _____

Location Greyshore Station

HOLE NO. 43

SHEET NO. 2

DEPTH	THICKNESS	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
47.4	308.0	ANDESITE, medium green, fine grained, moderately to well sheared, with carbonate stringers, banding at 40d to C.A. Slightly chloritic and sericitic in places, Slightly sheared and broken.					
		Lost Core 49.3-49.8					
		55.6-56.0, two 1" bands of carbonate with tiny quartz lenses, 1-3% pyrite, minor pyrrhotite, magnetite, chalcopyrite, sphalerite.					
		61.0-62.1, well sheared with carbonate stringers, 1% pyrite, minor tourmaline and sericite.	5799	61.0	62.1	1.1'	.01
		62.6-62.8, massive pyrrhotite and minor pyrite in chert? Quartz? vein minor magnetite.	5800	62.6	62.8	0.2'	.005
		81.0-111.9, andesite as before, slightly sheared with carbonate stringers, otherwise massive.					
		93.2-93.9, irregular quartz carbonate zone less than 1% pyrite in scattered blebs.	PL 1	93.2	93.9	.7'	Tr.
		111.9- 112.9 BASIC DYKE medium green colour, highly calcareous, white flecked appearance, massive, medium grained.					
		112.9-144.9, Andesite as above (81.0-111.9)					
		112.9-113.8, well sheared with carbonate and quartz-carbonate stringers, minor tourmaline	PL 2	112.9	113.8	0.9'	Tr.
		113.8-114.2, milky white quartz vein, 1% pyrite, stringers of chlorite.	PL 3	113.8	114.2	0.4'	0.17

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 42 SHEET NO. 1

DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Oz/T Au
114.2-115.0, well sheared with irregular carbon- ate and quartz-carbonate veins 1% pyrite	PL 4	114.2	115.0	0.8'	.05
123.2-123.6, blue quartz vein, 1% pyrite with minor sphalerite	PL 5	123.2	123.6	0.4'	.015
129.3-129.5, silicified cherty looking zone.					
144.7-144.9, irregular quartz-carbonate vein 20% tourmaline, 1% pyrite and possible V.G.	PL 6	144.7	144.9	0.2'	.005
144.9-216.3, ANDESITE, medium green, fine grained, slightly sheared with carbonate and occasional silicified and quartz stringers. 30d to C.A. 20% pyrite, occasional hazy, light green andesite bands, suggest pillow borders at 187.3, 192.1, 193.0 and 195.4. Rare narrow stringers of tourmaline.					
216.3-221.3, SLIGHTLY SHEARED ZONE of andesite, irregular quartz-carbonate veins, carbonate stringers less than 1.0% pyrite minor chalcopyrite and sphalerite. Veins at 216.7-216.9, 217.6- 217.7, 219.6, 219.9-220.2, and 221.3	PL 7	216.3	221.3	5.0'	Tr.
221.3-260.0, andesite, medium green, fine grained, moderately to well sheared with irregular quartz, quartz-carbonate, and carbonate stringers. blebs and splotches. 227.0-227.7 Quartz veins at 227.0 227.2, and 227.5-227.7	PL 8	227.0	227.7	0.7'	Tr.

DIAMOND DRILL RECORD

PROPERTY _____

HOLE NO. 47

SHEET NO. 4

	SAMPLE NO.	FROM	TO	DEPTH	Gz/T Au
228.5-233.2, as above with quartz veins at 228.6-					
228.7, 229.4, 229.8-229.9, 230.1-230.4, 230.7,					
231.0-231.1, 232.3-232.7 and at 233.1	PL 9	228.5	233.2	4.7'	Tr.
233.2-235.1, as above	PL 10	233.2	235.1	1.9'	Tr.
238.4-242.1, andesite, well sheared with quartz stringers and vein	PL 11	238.4	242.1	3.7'	Tr.
242.1-242.5, andesite as before					
242.5-244.5 as above (238.4-242.1)	PL 12	242.5	244.5	2.0'	Tr.
244.5-252.2, andesite as before					
252.2-255.3, well sheared with quartz and quartz-carbonate, and carbonate stringer and veins	PL 13	252.2	255.3	3.1'	.005
255.3-257.3, andesite as above					
257.3-258.7, well sheared with quartz veins to 2" and carbonate stringers. less than 1% pyrrhotite, pyrite and chalcopyrite. Minor chlorite, tourmaline and sericite.	PL 14	257.3	258.7	1.4'	Tr.
258.7-259.3, andesite as above					
259.3-260.0, milky white quartz vein. 1% pyrite, pyrrhotite and occasional chalcopyrite, Minor chlorite and tourmaline.	PL 15	259.3	260.0	0.7'	Tr.
260.0-308.0, andesite, medium green, fine grained moderately to well sheared with quartz, quartz-carbonate, and carbonate stringers and veins.					

DIAMOND DRILL RECORD

PROPERTY California Crystalline Quartz

HOLE NO. 43

SHEET NO. 5

		DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Gr/T
							Gr/T
		262.2-264.1, SLIGHT SHEAR ZONE, quartz veins at 262.4 and 264.0, otherwise well sheared with carbonate stringers. 1% pyrite and minor chalcopyrite	PL 16	262.2	264.1	1.9'	.005
		266.8-268.6, well sheared with mainly carbonate, minor quartz stringers. 1% pyrite	PL 17	266.8	268.6	1.8'	Tr.
		297.0-298.7, Zone of primary magnetite and carbonate interbanded with carbonate stringers and chlorite, 3-5% disseminated pyrite	PL 18	297.0	298.7	1.7'	.01
		300.3-330.6, dark green to white chert. 1% magnetite and pyrite					
		307.0-308.0, milky white quartz veins at 307.0-307.2, 307.7-308.0.	PL 19	307.0	308.0	1.0'	Tr.
308.0	338.8	DACITE? (SILICIFIED ANDESITE?) light green colour fine grained, very hard. slightly sheared with carbonate stringers and veins. minor tourmaline stringers.					
		331.6-333.2, well sheared with tourmaline and quartz blebs.					
338.8	391.0	ANDESITE, moderately to well sheared with carbonate and minor tourmaline stringers, quartz-carbonate veins.					
		345.5-346.6, irregular quartz and quartz-carbonate veins, blebs.	PL 21	345.5	346.6	1.1'	.035

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 43 SURFACE NO. 6

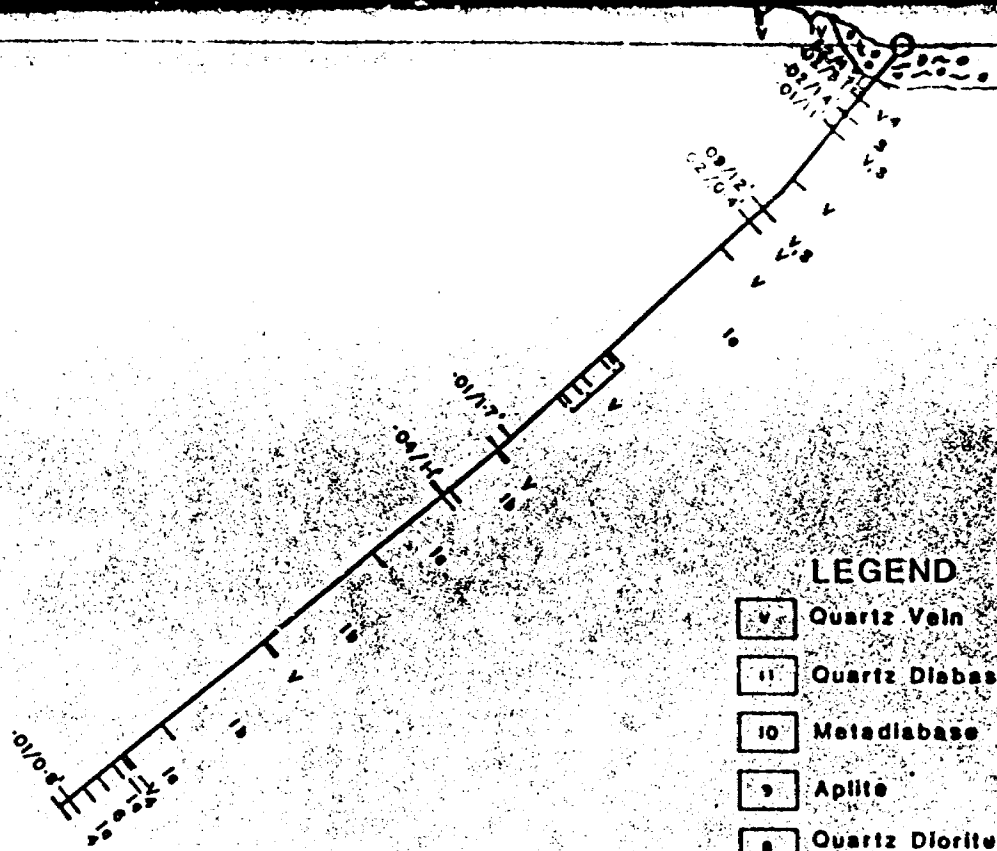
DEPTH		DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Gr/T Λ"
		375.1-375.6 WEAK I.F.? 8% chert, sheared with carbonate stringers, minor pyrrhotite and magnetite					
			PL 22	375.1	375.6	0.5'	.005
		375.6- Andesite as before (338.8-345.5) only slightly to moderately sheared.					
391.0	536.0	DACITE? (ALTERED ANDESITE?) as before (308.0-338.8)					
		456.6-457.1 as before (375.1-375.6)	PL 23	456.6	457.1	0.5'	.005
		466.0-467.0, irregular quartz veins to 2"	PL 24	466.0	467.0	1.0'	Tr.
536.0	563.1	ANDESITE light to medium green, fine grained, slightly to moderately sheared with carbonate. Highly calcareous					
563.1	569.0	IRON FORMATION interbanded chert, and magnetite 10-15% pyrrhotite, pyrite, traces of chalcopyrite					
		563.1-564.7, as above (563.1-569.0)	PL 25	563.1	564.7	1.6'	Tr.
		564.7-656.1, milky white quartz vein, minor chlorite	PL 26	564.7	565.1	0.4'	Tr.
		565.1-569.0, as above (563.0-564.0)	PL 27	565.1	569.0	3.9'	Tr.
569.0	580.5	ANDESITE as above (536.0-563.1)					
580.5	592.1	FELDSPAR PORPHYRY, dark green colour with white feldspar phenocrysts to ¼". chloritic, fine grained ground mass, highly calcareous, massive.					
592.1	593.1	IRON FORMATION as before (563.1-569.0)	PL 28	592.1	593.1	1.0'	.005
593.1	595.6	ANDESITE as before					

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite, Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ch Chlorite
 - si Silicific

SULPHIDES

- P₁ Pyrite
 - P₂ Pyrrhotite
 - C₁ Chalcopyrite
 - S₁ Sphalerite
 - G₁ Galena
 - A₁ Arsenopyrite
- 0.25/30' Au oz/ton/core length (feet)
- / VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

CROW SHORE OPTION
 PICKLE LAKE AREA, ONTARIO
 VERTICAL SECTION
 D.D.H. G-P-81-43

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY Callan's Growshore, Ontario

HOLE NO. G-2-81-44

SHEET NO. 1

LOCATION NEW GROW SHORE, ONTARIO

COMPASSING Orig South DIP -50D

STARTED Aug 28/81

LATITUDE 6+10 North

TESTS:

COMPLETED Aug 29/81

DEPARTURE 8+50 West

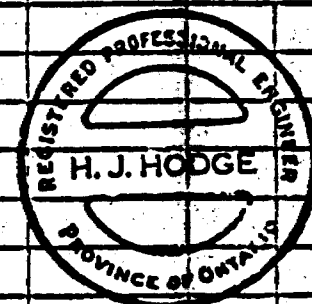
FOOTAGE	DIP	BEARING
200	48d	
400	42d	
600	40d	

ULTIMATE DEPTH 611'

ELEVATION _____

LOGGED BY S. Waldie

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0	26.0	CASING					
26.0	76.0	ANDESITE. light green colour. fine grained. moderately sheared with carbonate stringers at various angles, but generally at 40d to C.A.					
		26.0-30.9, LIGHT SHEAR ZONE					
		31.0-31.6, milky white Qtz. vein slightly fractured and filled with glassy Qtz.	PL 30	31.0	31.6	0.6'	Tr.
		55.5-56.5, milky white carbonate vein. 55.5-	PL 31	55.5	56.5	1.0'	Tr.
		56.1. 56.1-56.5, minor chlorite, sericite and tourmaline					
		60.6-65.0, SHEAR ZONE slightly to moderately sheared and broken					
		62.2-65.1, numerous milky white quartz veins to 4"	PL 32	62.2	65.1	2.9'	Tr.
		65.1-70.3, several irregular quartz carbonate veins to 1".					
76.0	91.0	DACITE? (silicified Andesite?) medium green colour fine grained, slightly fractured and sheared with tiny carbonate stringers & minor tourmaline.					



DIAMOND DRILL RECORD

PROPERTY Callahan-Crossshore Station

HOLE NO. 44

SHEET NO. 2

DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Oz/T Au
	89.5-89.8, irregular grey quartz vein, 20% chlorite	PL 33	89.5	89.8	0.3'	Tr.
91.0 - 94.3	ANDESITE, as before (26.0-76.0)					
94.3 - 146.0	DACITE? (silicified Andesite?) as before (76.0-91.0)					
	96.6-96.9, WEAK IRON FORMATION. Massive black chert with disseminated magnetite.					
	101.0-103.0, IRON FORMATION as above, only intermittent and irregular.					
	122.8-123.1, I.F. as above (101.0-103.0)					
	136.0-136.2, Dark blebs of carbonate with 20-25% pyrrhotite and minor magnetite.					
146.0 - 237.1	ANDESITE, as before (26.0-76.0), massive to slightly sheared.					
	147.8-149.7, irregular blotchy quartz-carbonate vein-147.8-148.0 qtz. vein- $\frac{1}{2}$ " at 148.2 and quartz-carbonate as above at 149.5-149.7.					
	153.1-154.0, MINOR SHEAR ZONE					
	173.9-174.3, milky white quartz vein at 40d to C.A. Minor tourmaline and chlorite	PL 34	173.4	174.3	0.4	Tr.
	217.4-219.2, irregular quartz and quartz-carbonate veins. Minor tourmaline & chlorite, 30% vein material.	PL 35	217.4	219.2	1.8'	Tr.

DIAMOND DRILL RECORD

PROPERTY Callaghan Growschore Ontario

HOLE NO. 44

SHEET NO. 3

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T Au
237.2	240.5	IRON FORMATION, massive green to white to black chert, minor magnetite and 1-3% pyrite and pyrrhotite.					
240.5	281.0	ANDESITE, medium green, fine grained, moderately sheared with carbonate. Brecciated in places with hazy pale green fragments					
		250.3-250.7, WEAK IRON FORMATION as before					
		251.6-251.9, irregular milky white quartz vein	PL 36	251.6	251.9	0.3'	Tr.
		253.0-257.6, well sheared with irregular blotchy quartz veins to 3"	PL 37	253.0	257.6	4.6'	Tr.
		257.6-260.5 as above (253.0-257.6)	PL 38	257.6	260.5	2.9'	Tr.
281.0	346.0	ANDESITE BRECCIA-medium green colour with hazy pale green fragments, fine grained, massive to very slightly sheared, with carbonate stringers					
		301.0-346.0. Andesite breccia becoming slightly sheared with carbonate and occasional quartz carbonate stringers					
		318.6- $\frac{1}{2}$ " quartz-carbonate vein	PL 39	318.6	318.9	0.3'	Tr.
		318.8-318.9-1" quartz vein					
346.0	360.2	DACITE? (ALTERED ANDESITE?) as before					
360.2	381.6	ANDESITE as before (26.0-76.0)					
		360.5-360.7, quartz-carbonate vein					

DIAMOND DRILL RECORD

PROPERTY Callants Crossshore Option

HOLE NO. 44

SHEET NO. 4

DEPTH	DESCRIPTION	SAMPLE NO.	FROM	TO	THICK	Gz/T A"
	369.1-369.5, milky white quartz-carbonate vein, 2% pyrite, minor chalcopyrite and sphalerite	PL 40	369.1	369.5	0.4'	.005
	371.7-373.8. QUARTZ VEIN, milky white quartz with wallrock inclusions, minor sericite, and brown biotite alteration, 8-10% pyrite and minor chalcopyrite	PL 41	371.7	373.8	2.1'	.015
	373.8-374.2, white carbonate vein	PL 42	373.8	374.2	0.4'	.01
	374.2-375.7, alteration zone of 3-5% pyrite, ser- icite, brown biotite, and carbonate stringers	PL 43	374.2	375.7	1.5'	.005
	381.5-381.6, 3/4 " quartz stringers					
381.6	396.0					
	DACITE? (ALTERED ANDESITE?) as before					
396.0	404.7					
	ANDESITE as before (26.0-76.0)					
	397.4-398.2, WEAK IRON FORMATION, magnetic chert blebs banded with carbonate and brown biotite					
	390.5-391.5 as above (397.4-398.2)					
404.7	435.0					
	(DACITE?) (ALTERED ANDESITE?)					
435.0	472.2					
	ANDESITE as before (26.0-76.0)					
	464.7-469.4, intermittent and irregular milky white quartz veins to 1 1/2"	PL 44	464.7	469.4	4.7'	.005
	471.7-472.2, milky white QUARTZ VEIN	PL 45	471.7	472.2	0.5	Tr.
472.2	505.0					
	DACITE? (BRECCIA?) ALTERED ANDESITE? as before but with a suggestion of fragmentation.					
505.0	515.0					
	ANDESITE (TUFF) light green colour, fine grained well sheared with carbonate and chlorite 80-90d to C.A.					

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 44 SHEET NO. 5

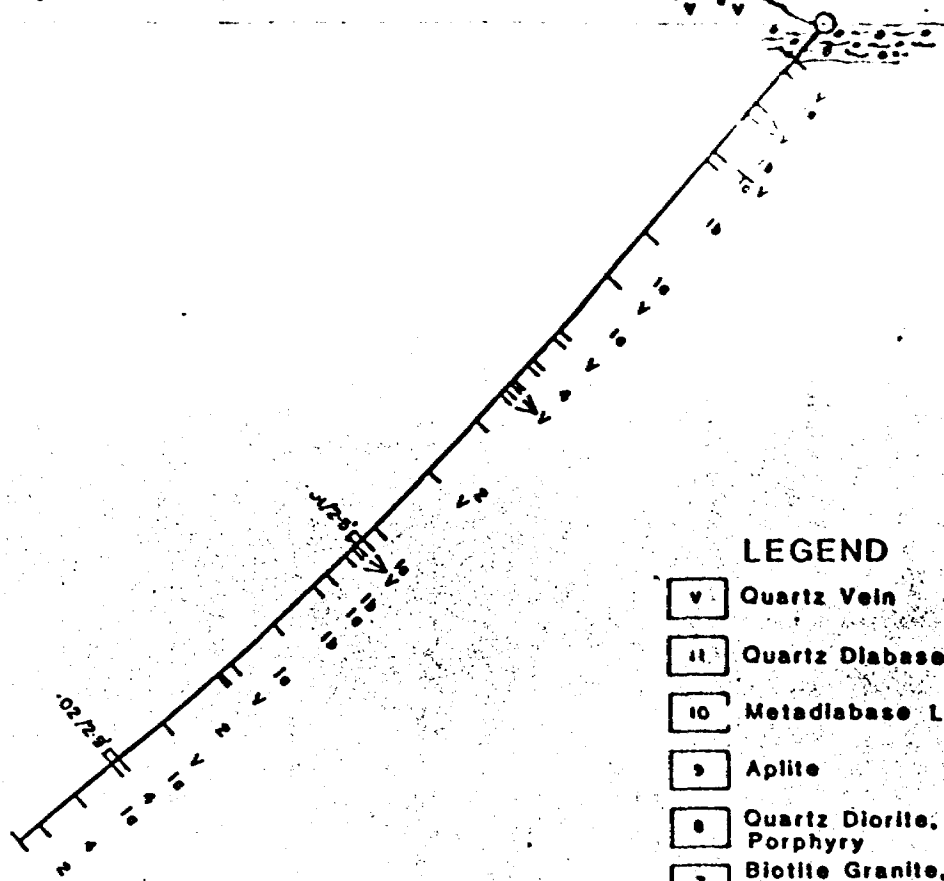
		DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Gz/T A"
		511.5-512.4, quartz-carbonate vein	PL 46	511.5	512.4	0.9'	Tr.
515.0	544.2	ANDESITE-light green, fine grained, massive to slightly sheared with carbonate stringers moderately calcareous.					
544.2	547.1	IRON FORMATION, massive chert 3-5% magnetite occasional chlorite inclusions to 2", 10%-15% pyrrhotite	PL 47	544.2	547.1	2.9'	.02
547.1	573.1	ANDESITE-light green to pale grey, fine grained, slightly sheared with carbonate stringers, 1/4" quartz stringer at 462.5					
		569.7-570.6 FELDSPAR PORPHYRY, Dark green colour with white phenocrysts to 1/4" fine grained chloritic matrix. slightly calcareous, massive except for one 1/4" quartz vein, 1% disseminated pyrite.					
573.1	598.3	IRON FORMATION, interbanded chert and magnetite, 1-3% pyrrhotite and pyrite. Occasional chlorite band to 1/8", banding at 20d to C.A.					
		593.9-597.6, VERY WEAK I.F. mostly Andesite and carbonate.					
		597.6-598.3, I.F. as above.					
598.3	611.0	ANDESITE (TUFF?) medium greenish brown fine grained well sheared with carbonate, sericite chlorite, brown biotite, and fuschite.					

Datum

-200'

-400'

-600'



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry, Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite, Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a Intermediate Volcanics, b Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- T Tourmaline
- c Carbonate
- ch Chlorite
- si Silicitic

SULPHIDES

- P₁ Pyrite
- P₂ Pyrrhotite
- C_p Chalcopyrite
- S_p Sphalerite
- G_o Galena
- A_s Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

**CROW SHORE OPTION
 PICKLE LAKE AREA, ONTARIO
 VERTICAL SECTION
 D.D.H. G-P-81-44
 LOOKING WEST**

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. _____ DATE NO. _____

LOCATION _____
 LATITUDE 57-00 North
 DEPARTURE 12+00 South
 ELEVATION _____

TESTS:

FOOTAGE	DIP	XXXXXXXX
200	50d	800' 38d
400	45d	1000' 37d
600	40d	

STARTED Aug. 19/77
 COMPLETED Sept. 2/81
 ULTIMATE DEPTH 1006.0
 LOGGED BY H. J. Hodge

From	FOOTAGE To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	Au Oz/T
0.0	26.0	Overburden					
26.0	316.6	ANDESITE, fine grained, greenish grey, lightly to moderately sheared at 35d to 45d to C.A. moderately carbonatized and sericitized. Numerous quartz-carbonate stringers up to 1/4" , generally parallel to shearing but also at variable angles to it.					
		QUARTZ VEINS, 35.6-35.8, 36.2-36.5, 37.0-37.1 white massive quartz w minor pyrite, chalcopyrite.					
		1" quartz (similar to above) at 44.6'	801	35.6	37.2	1.6'	Tr.
		47.2-49.5 QUARTZ VEIN - SILICIFIED ZONE light grey highly bleached zone, with numerous quartz veinlets to 1" (30-40% of section) 3-5% pyrite, minor pyrrhotite, trace chalcopyrite, Moderately sheared and well banded at 45-50d to C.A.	802	47.2	49.5	2.3'	Tr.
		49.5-72.6, as above (26.0-47.6)					
		72.6-77.6, pale brownish grey, moderately sericitic highly carbonatized Numerous narrow carbonate stringers up to 1/4" with 10% pyrite, pyrrhotite.	803	72.6	77.6	5.0'	Tr.



WAVONS DRILL RECORD

PROPERTY _____ HOLE NO. 45 _____ SURF. NO. 2 _____

DEPTH	DIAM.	TIME	REMARKS	Oz/T	AN
			trace chalcopyrite. POSSIBLE TUFF		
			77.6-84.5, highly carbonated as above, but normal grey-green colour.		
			84.5-85.6 SILICIFIED ZONE? well banded (TUFF?) at 55d to C.A. laminated bands of pale grey (silicified), interbanded with pale to dark green sericitized and chloritized andesite. Minor pyrite in bands (5-10%) Minor secondary quartz.	804	Tr.
			85.6-90.0, as above (77.6-84.5)		
			90.0-94.7, SHEARED, SILICIFIED, QUARTZ-SULPHIDE ZONE. Brownish grey, sericitized, moderately to highly sheared. Numerous narrow quartz stringers, 15-20% pyrite, minor pyrrhotite. Shearing at 60d to C.A. 2" quartz at 90.0-90.2 Notably non-carbonatized. Broken core at 93.8-94.7.	805	.005
			94.7-99.0, as above (77.6-84.5)		
			99.0-99.5, QUARTZ VEIN, 10% pyrite	806	Tr.
			99.5-120.0, heavily SHEARED at 60d to C.A. with sections moderately sheared. Moderately carbonatized with numerous minute carbonate-quartz stringers. Irregular quartz stringers 103.0-103.6	807	Tr.
			Minor quartz-carbonate veinlets with minor pyrite at 122.0-122.5	808	Tr.
			125.0-142.5, lightly sheared @ 60d to C.A. Dark green, progressively less sheared and altered.		

DIAMOND DRILL RECORD

PROPERTY Callanish Shale, Gray Sulphur HOLE NO. 47 SHEET NO. 3

	DESCRIPTION	SAMPLE NO.	FROM	TO	DEPTH	Oz/T Au
	142.3-146.0, moderately sheared @ 60d to C.A. numerous carbonate stringer, occasional quartz stringers.					
	14.60-262.0, massive to lightly sheared, considerable light grey carbonate stringers. Occasional quartz veinlets to 1/2" Minor pyrite, pyrrhotite, with carbonate.					
	262.0-266.0, as above moderately sheared @70d to C.A.					
	266.0-316.6, TOURMALINIZED ZONE Massive to slightly foliated, heavy tourmaline in irregular patches and stringers generally with carbonate 3-5% magnetite, minor pyrite (3-5%), occasional sphalerite, honey coloured.					
316.6	359.8 ANDESITE TUFF? well banded, slightly sheared at 70d to C.A. Medium green, fine grained moderately chloritic. Numerous stringers and bands of carbonate parallel to banding. Occasional narrow quartz veinlets minor pyrite, pyrrhotite.					
	QUARTZ VEIN 322.1-322.4	809	322.1	322.4	0.3'	Tr.
	342.3-343.0, 5-8% ochre coloured sphalerite with 10% pyrite, minor chalcopyrite in carbonatized zones.	810	342.3	343.0	0.7'	005
	343.0-358.3, as above, with only traces of sphalerite. (weak iron formation).					

DIAMOND DRILL RECORD

PROPERTY California State University

HOLE NO. 45

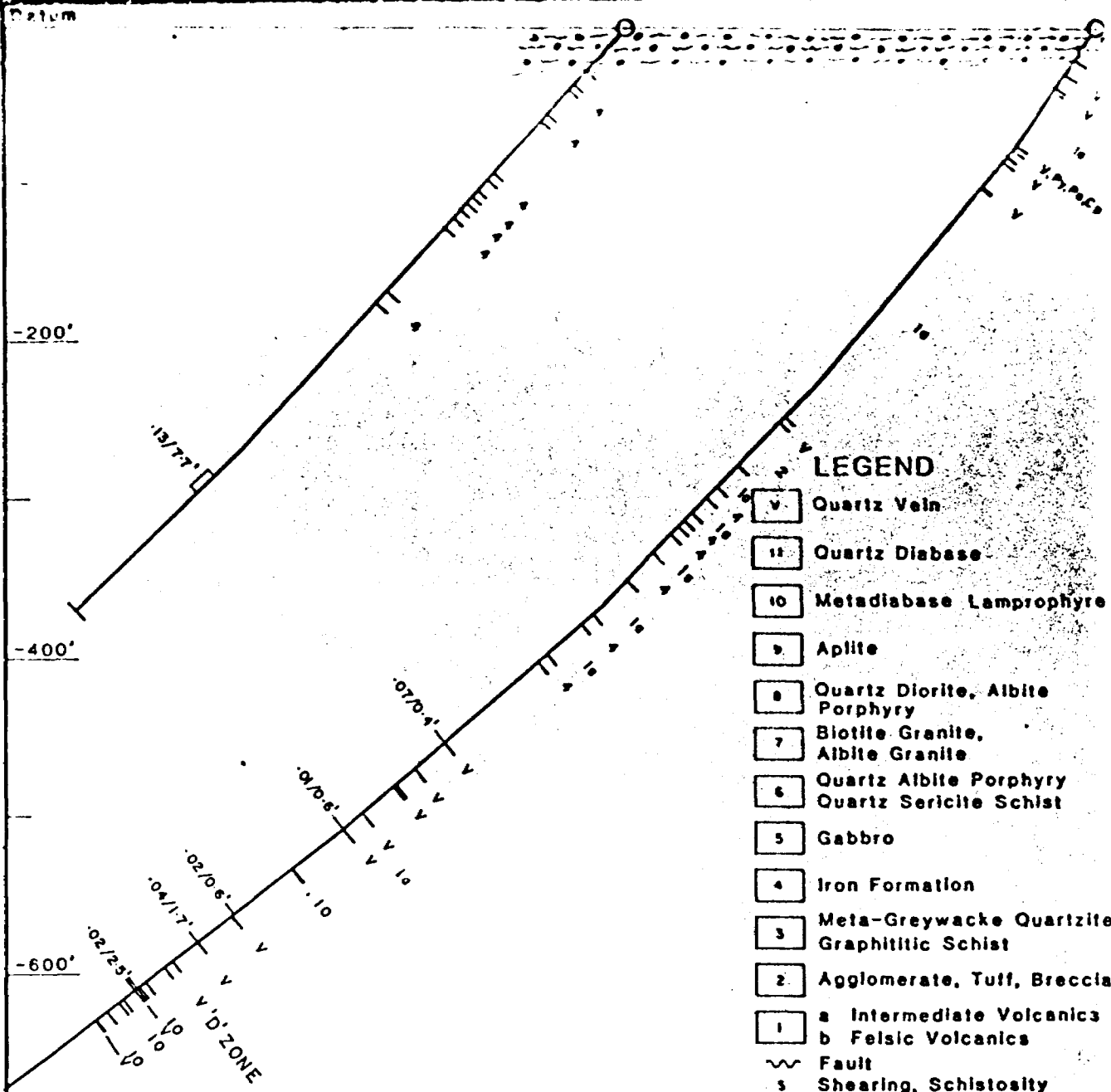
SHEET NO. 4

		DEPTH	SAMPLE NO.		DIAMETER	GRINDING
		Feet	Top	Bottom	Feet	Grain Size
	359.8-382.7	WEAK IRON FORMATION, 20% magnetite 5-8% sulphides, considerable chlorite, pyrite, pyrrhotite, trace sphalerite	811	358.3 359.8	1.5'	.005
359.8	382.7	ANDESITE, massive, fine grained, medium green. Scattered patches of tourmaline as above.				
	375.0-383.7	lightly sheared, (poorly banded?)				
382.7	388.0	WEAK IRON FORMATION. Possible TUFF?. moderately banded at 70d to C.A. predominantly chloritic andesite with numerous sections of light to heavy magnetite, minor pyrite.				
388.0	416.2	ANDESITE, light grey moderately banded.				
416.2	418.2	IRON FORMATION, interbanded magnetite and chlorite, banding 70d to C.A.				
418.2	421.0	ANDESITE, as above				
421.0	421.5	IRON FORMATION, as above				
421.5	426.1	ANDESITE, as above				
426.1	429.2	IRON FORMATION, as above, with chert bands. Con- siderable carbonate, 20-25% pyrite and pyrrhotite for 6" from both contacts, otherwise 3-5%	812	426.1 429.2	3.1'	.005
429.2	440.1	ANDESITE, as above, IRON FORMATION 436.0-436.3				
440.1	462.0	IRON FORMATION, as above. 5-8% pyrrhotite, minor pyrite banded 65d to 70d to C.A.				
462.0	494.2	ANDESITE, as above				
494.2	501.4	IRON FORMATION, as above, 5-8% pyrrhotite, minor pyrite.				

DIAMOND DRILL RECORD

PROPERTY _____ HOLE NO. 47 _____ NUMBER NO. 5 _____

				SAMPLE NO.				Oz/T	
								At	
501.4	538.6	ANDESITE, as above. 538.5-538.7, iron formation							
532.6	538.3	IRON FORMATION, as above, 10-15% pyrrhotite, scattered arsenopyrite crystals. Minor quartz stringers near out contact		813	532.6	538.3	5.7'	.005	
538.3	748.6	ANDESITE, as above, slightly silicified to pale greyish green colour. Minor pyrrhotite, pyrite							
		2" quartz vein at 618.3		814	618.1	618.5	0.4'	.07	
		1" quartz vein with tourmaline stringer at 626.8		815	644.0	645.4	1.4'	Tr.	
		irregular quartz veinlets 644.0-645.4							
		"	"	659.1-660.0	816	659.1	660.0	0.9	Tr.
		"	"	661.5-662.4	817	661.5	662.4	0.9'	.01
		"	"	690.8-691.1	818	690.8	691.1	0.3'	Tr.
		scatter narrow qtz veinlets 707.0-707.6							
		minor py c.p.		819	707.0	707.6	0.6'	.01	
748.6	749.6	BASIC DYKE, dark brownish grey, medium grained massive, hornblende. grey feldspar, minor quartz considerable biotite.							
749.6	842.0	ANDESITE, as above. irregular quartz veinlets at 793.0-793.6		820	793.0	793.6	0.6'	.015	
		1" quartz veins at 821.3 and 823.0		821	821.3	823.0	1.7'	.035	
842.0	844.0	QUARTZ VEIN. 'D'ZONE? White massive quartz, minor pyrite.		822	842.0	844.0	2.0'	Tr.	
844.0	865.4	ANDESITE, as above. 844.0-845.6-50% quartz in narrow veinlets, 10-12% pyrite, pyrrhotite		823	844.0	845.6	1.6'	.005	



- LEGEND**
- 11 Quartz Vein
 - 10 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry, Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics, b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ch Chlorite
 - s Silicitic

- SULPHIDES**
- P₁ Pyrite
 - P₂ Pyrrhotite
 - C₁ Chalcopyrite
 - S₁ Sphalerite
 - G₁ Galena
 - A₁ Arsenopyrite
- 0.25/30' Au oz/ton/core length (feet)
- VLF Conductor Axis

GALLANT GOLD MINES LTD.		
PICKLE CROW OPTION, ONTARIO PICKLE LAKE AREA, ONTARIO VERTICAL SECTION		
D.D.H. G-P-81-14,-45		
LOOKING WEST		
Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

1" = 100'

LOCATION Alberly Lake, Ontario

MINING GRID Southport - 55d

STARTED Sept. 2/91

PROPERTY Alberly Lake, Ontario

COMPLETED Sept. 4/91

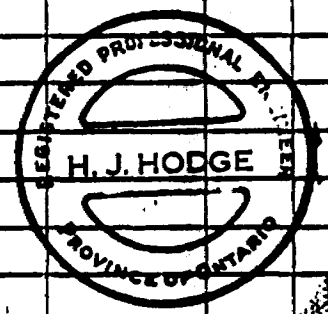
PROJECT Alberly Lake, Ontario

ULTIMATE DEPTH 16.0'

ELEVATION

LOGGED BY H.J. Hodge

From	To	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Au Oz/T
0.	14.0	Casing, overburden					
14.0	402.0	ANDESITE, dark green, massive, suggestion of pillows, considerable pale yellow carbonate, moderately chloritic, occasional quartz carbonate vein to 1".					
		63.2-63.5, QUARTZ VEIN, massive pinkish quartz, 5-8% tourmaline, minor carbonate	827	63.2	63.5	0.3'	Tr.
		64.0-85.0, gradual change to slightly coarse grained pale green massive andesite, occasional sections slightly foliated.					
		85.0-126.6, dark green, fine grained, slightly foliated at 65d to 70d to C.A., considerable light grey carbonate in minute stringers, occasional quartz veinlets.					
		Narrow SHEAR ZONE at 127.1 with heavy carbonate and minor pyrrhotite and pyrite from 126.6-127.3.	828	126.6	127.3	0.7'	Tr.
		126.6-242.6, moderately banded (sheared) at 60d to C.A.	829	242.6	242.9	0.3'	Tr.
		242.6-242.9 QUARTZ VEIN 15-20% tourmaline minor pyrite, pyrrhotite					
		242.9-275.0 TOURMALINIZED andesite, 10-15 %					



CONTRACTOR

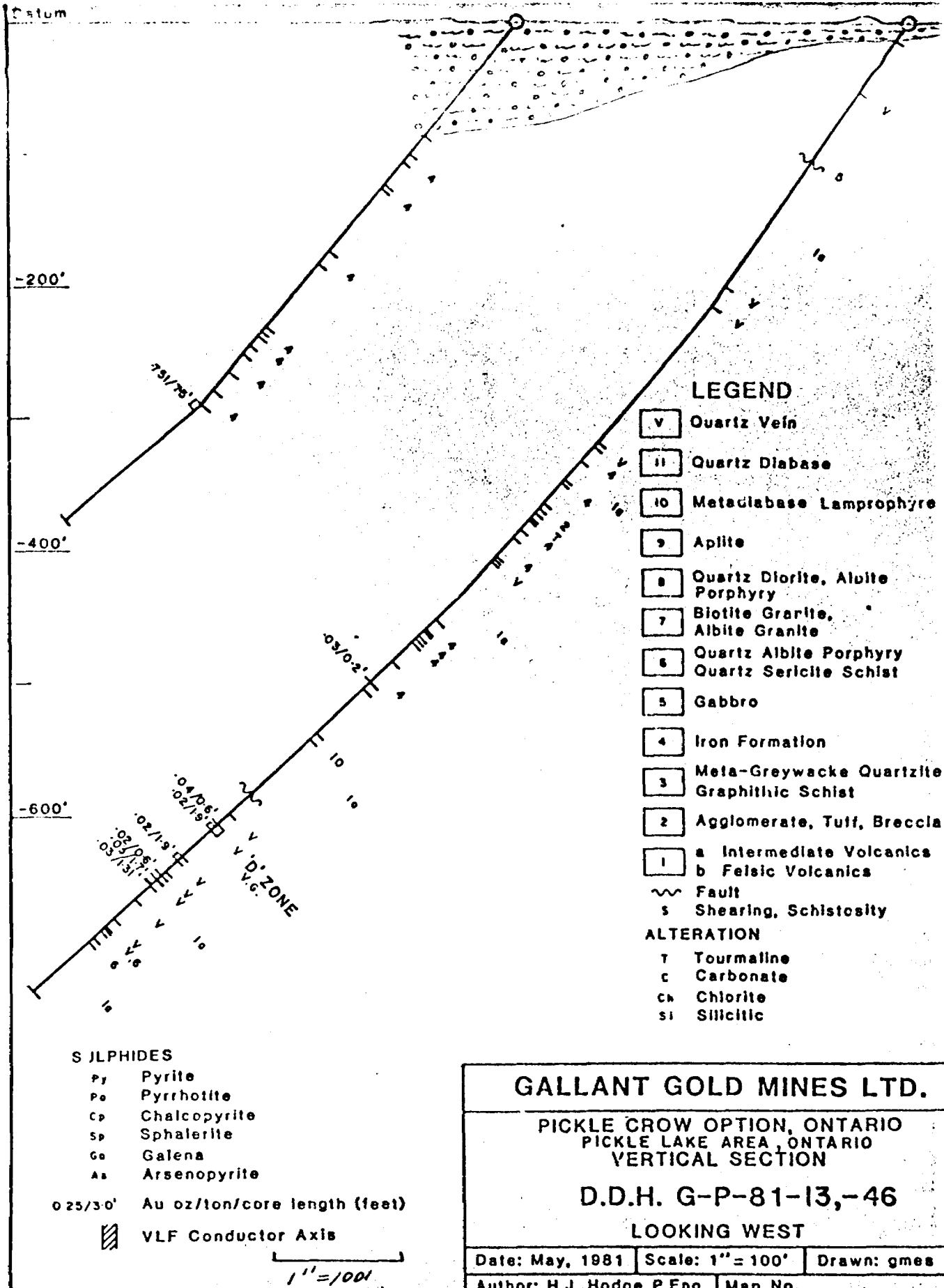
SIGNED

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	THICK	OR/T
		261.2-261.6	830	261.0	261.6	0.6'	Tr.
		276.0-300.0, as above but only occasional tourmaline.					
		300.0-368.0, massive to slightly foliated, dark green, possibly pillowed.					
		368.0-402.0, TOURMALINE-CARBONATE ZONE as before minor quartz veinlets.					
		irregular quartz -395.6-396.6	831	395.6	396.6	1.0'	Tr.
402.0	415.0	Iron Formation, weak, mainly chloritized andesite tuff?, with scattered chert bands and occasional narrow band of magnetite; abundant light grey carbonate stringers with minor quartz, sulphides, pyrrhotite, pyrite, traces of chalcopyrite.					
415.0	435.7	ANDESITE, Tourmalinized as above 368.0-402.0, less so.					
435.7	437.9	IRON FORMATION, typical interbanded magnetite, chert and chlorite, banding 50-60d to C.A. with local contorted drag folding. Minor sulphides with 10-15% for 6" from contact; mainly pyrrhotite, minor pyrite, traces of chal- copyrite					
437.9	458.0	ANDESITE, massive to slightly foliated, medium green colour, fine grained, occasional narrow carbonate stringer.					
		IRON FORMATION -454.2-455.2					

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	DEPTH	Qz/T
		15% light grey carbonate, 2-3% disseminated pyrite non-magnetic.					
	462.0-463.0	Andesite					
464.2	467.5	ANDESITE, as above					
467.5	472.6	IRON FORMATION, as above banding 65d to C.A.					
472.6	475.0	ANDESITE, dark green with 10% white carbonate flecks					
475.0	487.4	IRON FORMATION, mainly chloritized andesite, minor magnetite. 475.6-476.6 shear zone. Some sections heavy (25-30%) pyrrhotite with minor chalcopyrite					
487.4	495.4	ANDESITE, light greyish green, massive					
495.4	514.8	IRON FORMATION, as above, 8-10% pyrrhotite, traces chalcopyrite. 3" andesite dyke? at 512.4					
514.8	579.6	ANDESITE, as above					
	515.6-515.9	QUARTZ VEIN, minor chlorite, tour- maline, pyrite	832	515.6	515.9	0.3'	.005
	517.1-517.3	QUARTZ VEIN, minor chlorite, tourma- line, pyrite, also crystal of arsenopyrite	833	517.1	517.3	0.2'	.005
		occasional quartz-carbonate stringer to 1/2"					
579.6	589.4	IRON FORMATION, as above 5-8% sulphides.					
589.4	592.0	ANDESITE, medium green colour, massive.					
592.0	598.0	IRON FORMATION, as above.					
598.0	601.3	ANDESITE, as above.					
601.3	605.8	IRON FORMATION, as above, andesite bands 601.6- 601.9, 602.4-602.8, 603.7-604.0					

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T
		sections up to 20% pyrrhotite, trace chalcopyrite					
		quartz stringer 1/2" irregular at 649.2	834	649.1	649.3	0.2'	.025
		651.4-656.4- 50-60% pyrrhotite, minor chalcopyrite					
		(probably 0.5%) highly contorted.	835	651.4	656.4	5.0'	.005
656.4	705.5	ANDESITE as above.					
705.5	710.5	BASIC DYKE medium grained, black, considerable					
		biotite 10-15% carbonate as metacrysts.					
710.5	807.1	ANDESITE, massive to slightly foliated, numerous					
		light grey carbonate stringers.	836	771.7	773.0	1.7'	.005
		771.7-773.0, shear zone with 25% carbonate, minor					
		quartz in narrow veinlets, shearing 75d to C.A.					
		minor pyrite.					
		793.9-794.1 QUARTZ-CARBONATE VEIN	837	793.9	794.1	0.2'	Tr.
		801.2-802.0 50% quartz-carbonate in narrow veins					
		with tourmaline.	838	801.2	802.0	0.8'	Tr.
		803.5-804.1, 2 irregular 1/2" quartz vein with					
		silicified wall rock heavy apple green fuschite?					
		5% disseminated pyrite.	839	803.5	804.1	0.6'	.04
807.1	812.3	QUARTZ VEIN ZONE 'D' ZONE?					
		807.1-808.1, silicified zone, bleached to pale					
		greenish colour heavy fuschite, 10-12% dissemin-					
		ated pyrite. 25% quartz irregular well banded	840	807.1	808.1	1.0'	.015
		quartz vein with tourmaline, chlorite, sericite					
		and minor pyrite at 808.1					

NO.	DESCRIPTION	SAMPLE NO.	FROM	TO	THICKNESS	GRAVITY	Qz/10
	859.7-859.7, minor chlorite, tourmaline.	847	859.1	859.7	0.6'	.01	
	865.9-866.5 2 1/4" irregular quartz veins with minor pyrite, pyrrhotite.	848	865.9	866.5	0.6'	.015	
	860.0-868.5 dark grey andesite.						
	868.7-875.4, silicified to light grey colour, minor quartz in narrow (1/4") irregular veinlets	849	868.7	870.4	1.7'	.025	
	875.4-876.7, silicified to light grey as above 1/4" quartz vein at 875.6, 1" quartz vein with tourmaline at 876.6.	850	875.4	876.7	1.3'	.025	
	876.7-911.1, dark green andesite, fine grained massive to slightly foliated.						
	QUARTZ VEIN 889.5-890.0, minor chlorite, pyrite.	851	889.5	890.0	0.5'	.005	
	911.1-912.4, four quartz veins up to 2" wide, bluish quartz with 10% disseminated magnetite, minor pale yellow sericite, 10% pinkish carbonate or leucoxene? Vuggy.	852	911.1	912.4	1.3'	Tr.	
	919.6-919.9, quartz-carbonate vein 1" of massive quartz with chlorite, tourmaline, minor pyrite traces of galena. Possible V.G.	853	919.6	919.9	0.3'	Tr.	
922.2	924.1 ALBANY RIVER PORPHYRY medium greenish grey colour, 25% quartz and white feldspar phenocrysts to 2 m.m. Minor biotite, also in phenocrysts slightly foliated.						



LEGEND

- v Quartz Vein
 - 11 Quartz Diabase
 - 10 Metadiabase Lamprophyre
 - 9 Aplite
 - 8 Quartz Diorite, Albite Porphyry
 - 7 Biotite Granite, Albite Granite
 - 6 Quartz Albite Porphyry
Quartz Sericite Schist
 - 5 Gabbro
 - 4 Iron Formation
 - 3 Meta-Greywacke Quartzite
Graphitic Schist
 - 2 Agglomerate, Tuff, Breccia
 - 1 a Intermediate Volcanics
b Felsic Volcanics
 - ~ Fault
 - s Shearing, Schistosity
- ALTERATION**
- T Tourmaline
 - c Carbonate
 - ch Chlorite
 - si Silicic

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cp Chalcopyrite
- Sp Sphalerite
- Ga Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

 VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-13,-46

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

LOCATION South of #1 Shaft area

BEARING Grid South DIP -50d

STARTED Sept. 6/81

LATITUDE 37°00 West

TESTS:

COMPLETED Sept. 9/81

DEPTH 139.8

ULTIMATE DEPTH 600 feet

ELEVATION _____

LOGGED BY H. J. Hodge

FOOTAGE From	To	DESCRIPTION	SAMPLE NO.	FROM	TO	FEET	AU D.I. REGISTERED PROFESSIONAL ENGINEER H. J. HODGE PROVINCE OF ONTARIO
0.0	4.0	Casing, overburden					
4.0	22.3	ANDESITE, medium greenish grey, fine grained, slightly foliated at 50d to C.A. Numerous fractures with light grey carbonate along. Becomes progress- ively more foliated. 19.1-22.3 strongly banded? (sheared) at 30d-35d to C.A. Numerous carbonate stringers, minor quartz stringers	867	19.3	22.9	3.6'	Tr.
22.3	29.0	SHEAR-SULPHIDE ZONE, highly sheared at 40d to C.A. 22.8-24.0, 50% quartz veins, 30-40% pyrite 24.0-25.9, MASSIVE SULPHIDES, pyrite, vuggy, minor quartz. 25.9-29.0, extremely sheared at 30d-49d to C.A. minor pyrite	868	22.9	24.0	1.1'	Tr.
			869	24.0	25.9	1.9'	Tr.
			870	25.9	29.0	3.1'	Tr.
29.0	139.8	ANDESITE, as above (4.0-22.3) slightly lighter in colour. 42.4-42.9, QUARTZ VEIN, barren of sulphides 75.0-139.8, Tourmalinized-carbonatized, numerous scattered sections of black tourmaline with light grey carbonate, giving rock a blackish cast. Becomes almost black at 126.0. 137.3-137.9-50-60% pyrrhotite, banded	871	42.4	42.9	0.5'	.005
			872	137.3	138.3	1.0'	Tr

CONTRACTOR

SIGNED

FROM	TO	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	O ₂ /T %
139.8	142.9	massive, medium grained, fine grained, medium grey, siliceous. Occasional good banded chert section with suggestions of fragments in other sections. Minor pyrite, pyrrhotite. Occasional quartz veins. Banding 50d to C.A. minor magnetite.	874	138.6	142.9	4.3'	Tr.
	142.9-144.3	50% pyrrhotite	875	142.9	144.3	1.4'	005
	149.0-154.4	moderately carbonatized to pale brownish colour.					
	154.4-156.4	quartz vein with 40-50% pyrrhotite minor pyrite, traces chalcopryrite and sphalerite	876	154.4	156.4	2.0'	Tr.
	156.4-158.8	chert, banded 30-40% pyrrhotite, 5-10% pyrite	877	156.4	158.8	2.4'	Tr.
	158.8-159.3	QUARTZ VEIN, 25% pyrrhotite 5% pyrite	878	158.8	159.8	1.0'	Tr.
	159.3-161.9	CHERTY I.F. minor magnetite in banded disseminated sections	879	159.8	161.9	2.1'	Tr.
	161.9-162.6	QUARTZ VEIN, 10% pyrrhotite as above	880	161.9	162.6	0.7'	Tr.
	162.6-164.2	MASSIVE SULPHIDES, 60-70% pyrrhotite, 5% pyrite	881	162.6	164.2	1.6'	Tr.
	164.2-167.4	QUARTZ VEIN, irregular, 5-8% pyrrhotite, minor pyrite, traces chalcopryrite, .5% disseminated magnetite.	882	164.2	167.4	3.2'	Tr.
	167.4-170.3	Cherty I.F. as before, massive pyrrhotite at 169.9-170.1	883	167.4	170.3	2.9'	Tr.

DEPTH	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Oz/T
	less carbonate veins, scattered quartz stringers.					
	QUARTZ-CARBONATE VEINS 517.5-517.7, 517.9-518.1	991	517.5	520.1	2.6'	Tr.
	519.7-520.1 with silicified walls.					
	QUARTZ-CARBONATE VEIN with cream coloured silic-					
	ified sections 523.0-523.3	892	522.6	523.3	0.7'	Tr.
	556.5-556.8 CARBONATE-QUARTZ VEIN	893	556.5	556.8	0.3'	Tr.
	558.0-635.3, altered (biotitic) to dark brownish					
	colour; more foliated, heavily carbonatized with					
	numerous light grey carbonate stringers, probably					
	25% of rock. Occasional quartz, veinlets as at					
	560.0-560.2.	894	558.1	562.7	4.6'	Tr.
	QUARTZ-CARBONATE VEIN 590.7-591.1, irregular	895	590.7	591.1	0.4'	Tr.
	QUARTZ-CARBONATE VEIN 623.0-623.7, 628.1-628.3,					
	633.9-634.2	896	623.0	623.7	0.7'	Tr.
635.3	675.0 ANDESITE PORPHYRY?, medium to dark green colour;	897	628.1	628.4	0.3'	Tr.
	medium grained, slightly foliated, white feld-					
	spar phenocrysts up to 2 mm in scattered sections,					
	interbanded with peculiar lacy texture of dark					
	brown and green (biotite, chlorite?) clots in					
	green collapsed welded andesite, e.g. ground mass					
	SUGGESTS FRAGMENT - IGNIMBRITE banded 60d to C.A.	898	633.8	635.2	1.4'	Tr.
675.0	696.0 ANDESITE, massive					
	QUARTZ VEIN, white, massive fractured with	899	661.7	663.4	1.7'	Tr.
	chlorite, tourmaline, 661.7-663.4					
696.0	End of Hole					

ROW	DESCRIPTION	SAMPLE NO	FROM	TO	FEET	Qz/T
	173.3-178.0, 178.0-178.9, 178.9-176.6	885	173.3	178.0	4.7'	Tr.
	possible quartz veins?					
	179.0-179.2, massive pyrrhotite, minor pyrite	886	179.0	180.6	2.6'	Tr.
	179.2-180.3, CHERTY I.F. dark grey.					
	180.3-180.6, massive pyrrhotite, minor pyrite					
180.6	635.3 ANDESITE, (DACITE?) TUFF? fine grained, medium to light greenish grey. moderately banded 50d to C.A.10-20% carbonated, disseminated and in numerous fractures, minor black tourmaline					
	233.4-236.7, QUARTZ VEINS, several irregular white quartz veins with 5-10% tourmaline	887	233.4	236.7	3.3'	Tr.
	252.0-252.2 QUARTZ VEINS	888	252.0	252.2	0.2'	Tr.
	253.0-267.2, SHEARED CARBONATIZED ZONE, pea green colour, highly carbonatized, massive to moderately banded with several zones of broken core to 1 foot. Silicified at contact 2" quartz vein at 255.4.	889	253.0	255.5	2.5'	Tr.
	267.2-300.0, andesite? Dacite? medium to dark grey as before, variable tourmaline with occasional sections nearly black.					
	300.0-375.0, gradual change to pale green dacite. numerous narrow lite grey carbonate stringers with minor quartz, veinlets. 3-5% brown biotite in dacite.					

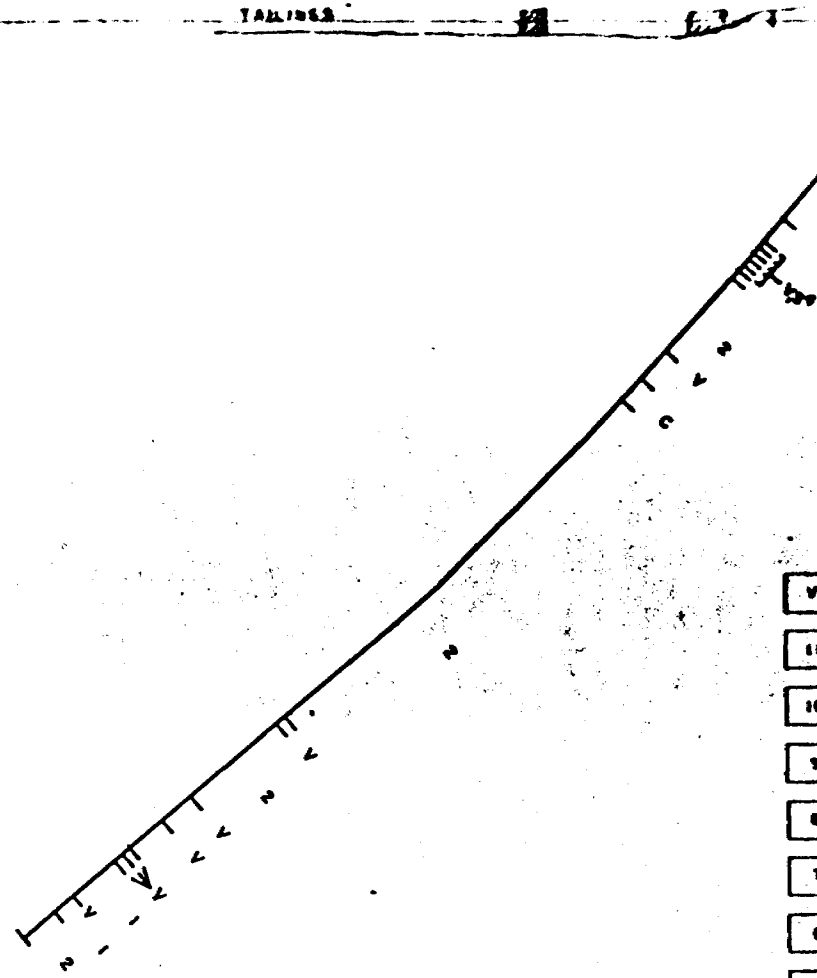
Datum

TALINGS

-200'

-400'

-600'



LEGEND

- v Quartz Vein
- 11 Quartz Diabase
- 10 Metadiabase Lamprophyre
- 9 Aplite
- 8 Quartz Diorite, Albite Porphyry
- 7 Biotite Granite, Albite Granite
- 6 Quartz Albite Porphyry
Quartz Sericite Schist
- 5 Gabbro
- 4 Iron Formation
- 3 Meta-Greywacke Quartzite
Graphitic Schist
- 2 Agglomerate, Tuff, Breccia
- 1 a. Intermediate Volcanics
b. Felsic Volcanics
- ~ Fault
- s Shearing, Schistosity

ALTERATION

- t Tourmaline
- c Carbonate
- cs Chlorite
- si Silicite

SULPHIDES

- Py Pyrite
- Po Pyrrhotite
- Cs Chalcopyrite
- Sp Sphalerite
- Ge Galena
- As Arsenopyrite

0.25/30' Au oz/ton/core length (feet)

VLF Conductor Axis

1" = 100'

GALLANT GOLD MINES LTD.

PICKLE CROW OPTION, ONTARIO
PICKLE LAKE AREA, ONTARIO
VERTICAL SECTION

D.D.H. G-P-81-47

LOOKING WEST

Date: May, 1981	Scale: 1" = 100'	Drawn: gmes
Author: H.J. Hodge P.Eng.	Map No.	

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REPORT

ON

THE DIRECTOR
MINING TAXATION AND
CMEP OFFICE

DIAMOND DRILLING PROGRAM

GALLANT GOLD MINES LTD.

PICKLE CROW-CROWSHORE OPTIONS

PICKLE LAKE AREA, ONTARIO



H.J. Hodge P.Eng.
November 11th, 1981

SUMMARY

carried out a diamond drilling program totalling 25,052 feet in 47 holes on its optioned properties in the Pickle Lake Area of Northwestern Ontario.

The properties consist of 107 optioned patented mining claims, previously known as the Pickle Crow and Crowshore properties. They are accessible by five miles of mine road from Pickle Lake, which is located 250 miles north of Thunder Bay. Paved Highway 599 connects Pickle Lake to the CNR and CPR main transcontinental lines at Savant Lake and Ignace, 90 and 165 miles, respectively, to the south. Most support mining services are available in the area.

The properties are underlain by volcanic-sedimentary rocks of the Pickle Lake-Crow River greenstone belt, a north east trending belt of isoclinally folded mafic to intermediate volcanic rocks, with minor felsic volcanics, sedimentary rocks and magnetic iron formation. Basic to acidic intrusives cut this assemblage.

The Pickle Crow property is a former major gold producer, which from 1935 to 1961 mined 3,217,572 tons of ore yielding 1,448,177 ounces of gold for an average of .46 ounces per ton.

Gold occurs in fissure quartz veins and quartz-sulphide zones in iron formation, mafic volcanics and felsic porphyry. Gold always occurs within, or in close proximity to, iron formation and is closely associated with complex folding.

The drilling program was designed primarily to investigate numerous electromagnetic anomalies as well as a number of known,

but previously partially explored gold occurrences.

The new gold zone was discovered in the drilling, both in the Albany River shaft area. The principal zone is the 'D' Zone East, approximately 800 feet north east of the shaft, and is probably an extension of the previously explored 'D' Zone. It is a fissure quartz vein, cutting andesite and iron formation and is similar to the Main(Howell) zone.

The 'D' and 'D' East Zones are estimated to contain 75,000 tons grading .30 ounces per ton. Combined with previously reported 15,000 tons grading .40 ounces per ton in the Main Zone, there is an estimated tonnage of 90,000 tons averaging .32 ounces per ton available in the Albany River shaft area.

If the depth to length ratio of 5.4 to 1, calculated as the average of all Pickle Crow-Central Patricia ore zones, is applied to the 'D' Zones, a potential exists for 1,380,000 tons, at the above grade.

The previously tested Sigmoid Veins and Crowshore 'C' Zones appear to be extensions of the 'D' zones, representing a strike length of one half mile of gold bearing vein zone.

A program is recommended to dewater and resample the Albany River Main Zone and carry out a mining feasibility study of the present reserves.

Additional drilling is proposed to further delineate the 'D' Zones as well as a newly discovered zone 500 feet south of the Albany shaft, and several other zones.

Geochemical sampling of tills or humus is recommended to locate additional gold zones not detected by geophysics, in addition to screening undrilled geophysical anomalies for possible

years is proposed for the Allany-Crowshore areas.

The estimated cost is \$342,000

INTRODUCTION:

Gallant Gold Mines holds, under option, 107 patented mining claims in the 100' 100' area of Northwold, Ontario. Ninety seven of these claims constitute the Pickle Crow property, a former gold producer, and 10 claims constitute the Crowshore property, adjoining the Pickle Crow on the east.

The Pickle Crow property produced 1,448,177 ounces of gold from 3,217,572 tons mined during an operating life of 31 years, from 1935 to 1966. Average grade was .46 ounces per ton.

During 1979-1980 and 1981, a VLF-EM survey was carried out over a grid system covering most of the Pickle Crow and Crowshore properties by Prospecting Geophysics Ltd. Numerous electromagnetic anomalies were detected and it was decided to conduct a diamond drilling program to investigate the most promising of these anomalies. In addition a number of gold occurrences, partially explored from previous exploration on the property, were selected for further drill investigation.

This report describes the results of the diamond drill program and recommends further work on the property.

PROPERTY

The Gallant Gold Mines property comprises a total of 107 contiguous patented mining claims, constituting two separate properties, the Pickle Crow and the Crowshore.

These properties are held under option agreements. These agreements have not been examined by the writer.

The properties are described as follows;

Pa 63 to 70 inclusive
Pa 637 to 640 inclusive
Pa 644, 646
Pa 675 to 677 inclusive
Pa 684 to 686 inclusive
Pa 696 to 707 inclusive
Pa 725 to 730 inclusive
Pa 735 to 751 inclusive
Pa 755 to 763 inclusive
Pa 773 to 781 inclusive
Pa 2011
Pa 2061 to 2078 inclusive
Pa 2133
Pa 2139 to 2141 inclusive
Pa 2185

CROWSHORE PROPERTY - 10 claims

Pa 2157 to 2163 inclusive
Pa 2586
Pa 5458, 5459

LOCATION

The claims are located in Connell and McCullagh Townships in the Pickle Lake area, Kenora Mining Division, Patricia Portion, province of Ontario.

The town of Pickle Lake, which lies 6 miles to the west of the centre of the Pickle Crow property, is approximately 250 miles north of the city of Thunder Bay, Ontario.

ACCESS

The Pickle Crow property is readily accessible by an all-weather secondary mine road which links the property to Highway 599 at Central Patricia, 4 miles to the west. This road continues onto the Crowshore but requires up-grading on that property to handle normal vehicular traffic.

Paved Highway 599 connects Pickle Lake to Savant Lake on the main CNR trans-continental line, 90 miles to the south and to Ignace

165 miles to the south.

Pickle Lake is serviced by daily flights from Thunder Bay by Air Canada.

CULTURE, FACILITIES

Pickle Lake is an established mining community of approximately 1,500 people. UMAX operates a 4,000 ton per day copper-nickel mine approximately 9 miles west of Pickle Lake.

Electric power, water, transportation, and all community services are readily available to support a mining operation in the area. However, the mine headframes, mill and surface facilities on the properties have all been demolished.

GEOLOGY-REGIONAL

The property lies within the Pickle Lake-Crow River greenstone belt, a northeast trending belt of isoclinally folded, predominantly mafic, volcanic rocks, intercalated with felsic to intermediate pyroclastics, meta-sediments, and iron formation. Diorite, gabbro and felsic porphyries intrude the volcanics and the whole belt is bounded and intruded by granitic plutons.

-PROPERTY

The Gallant Gold Mines property covers approximately 6.5 miles of strike length of the central portion of the greenstone belt.

The rocks underlying the property are largely andesitic to basaltic flows with minor rhyolitic to dacitic flows and fragmentals, meta-sediments, and iron formation. Several felsic porphyritic bodies, including the Pickle Crow and Albany River

and may be extrusive rather than intrusive.

The entire sequence is isoclinally folded and the generally parallel axial planes strike northeasterly, parallel to the primary bedding trends, and dip steeply to the north west. The fold axes plunge approximately 55 to the north east.

Shearing and faulting are common in the area with two prominent sets; north easterly, parallel to the primary bedding and north westerly, parallel to the late Keewanawan diabase dykes.

GOLD MINERALIZATION

The principal controls in the localization of the economic gold deposits of the Pickle Crow area appear to be structure, iron formation and the Pickle Crow Porphyry. All of the known ore deposits occur within, or in close proximity to, iron formation and generally associated with complex fold patterns.

The No. 1 or Howell vein, consists of a quartz filled fissure vein which cuts at a low angle across iron formation and gradually attenuates in grade and width away from the iron formation, into mafic volcanics. The vein is highly contorted along with the iron formation.

The No. 2 vein occurs entirely within the Pickle Crow porphyry in a very complex fold pattern. Various other smaller vein deposits occur cutting, or in close proximity to, iron formation.

In the Main zone on the adjacent Central Patricia property (Van Horne Gold Exploration), gold occurs in quartz-sulphide "stock-work" like zones entirely within a band of iron formation, and in

contorted fissure quartz vein in andesite.

Gold veins of current interest, i.e., the Albany River Main and D zones and Crowshore C zones, appear to be similar to the Howell vein. The Crowshore A and B zones, in iron formation, may be similar to the Central Patricia Main Zone.

The table below will serve to illustrate this feature.

Deposit (Vein)	Vertical Extent below Surface	Maximum Horizontal Length	Ratio Vertical/Horizontal
Pickle Crow No.1 Howell Vein	3,200	1,390	2.3 to 1
Pickle Crow No.2	2,150	1,150	1.9 to 1
Pickle Crow No.5	3,800	400	9.5 to 1
Pickle Crow No.9	1,750	200	8.8 to 1
Central Patricia No.1 individual shoots	3,260	285	11.4 to 1
Central Patricia No.1 aggregate	4,000	800	5 to 1
Central Patricia No.2 Springer	1,000	200	5 to 1
Average (excluding Central Patricia individual shoots)			6.3 5.4

PRODUCTION

Combined production from the Pickle Crow and Central Patricia Mines, totalled 2,068,020 ounces of gold from 4,947,038 tons of ore mined. Following is the breakdown;

Mine	Period	Tons of ore mined	Gold, Ounces	Average oz/ton
Pickle Crow	1935-1966	3,217,572	1,446,214	.45
Central Patricia	1936-1951	1,729,466	621,806	.36
Total		4,947,038	2,068,020	.42

GEOPHYSICAL SURVEYS

A VLF-EM survey low frequency electromagnetic method survey was carried out over a control picket line grid covering most of the Pickle Crow property by Prospecting Geophysics Ltd. in 1979-80. These results were described in previous maps and reports by Prospecting Geophysics. During the drilling program, additional grids were cut on the Pickle Crow property in the area south of No. 1 shaft and over the Crowshore property, and VLF-EM and magnetic surveys were carried out over these grids. All grids are shown on Maps No. 1 and 2. The VLF-EM conductors axes shown on these maps were taken from the various surveys, and the bulk of the magnetic anomalies were taken from a magnetic survey carried out by Teck Corporation around 1960.

DIAMOND DRILLING PROGRAM

The diamond drilling program was designed with a two-fold approach; to test selected VLF, and/or magnetic anomalies, and to investigate selected, potentially important, gold occurrences only partially or poorly explored in previous exploration on the property. The two priority areas in the latter category were the Albany River 'D' zone and the Porphyry drill hole intersections in the west portion of the property.

All electromagnetic conductor axes were accurately located in the field with a VLF-EM 16 instrument prior to spotting the holes.

Following logging, all quartz veins, sulphide zones, shear zones, and initially all iron formation, were split and sent for

results from 'barren' iron formation, only quartz or sulphide bearing iron formation were sampled.

The core was scanned systematically with an ultra-violet lamp to detect scheelite, and stored in a newly erected core rack at Central Patricia.

Analyses were carried out initially at Cochenour Assay office in Cochenour, Ontario, and subsequently at Bell White Laboratories in Haileybury. Analysis in all cases was by fire assay.

Diamond drilling commenced on April 10th, 1981 and terminated on September 8th, 1981. The drilling was carried out most efficiently by Moderne Drilling of Val-d'Or Quebec.

~~47 holes were drilled for a total of 25,052 feet.~~

RESULTS OF DIAMOND DRILLING

Diamond drilling of geophysical anomalies resulted in discovery of two new gold bearing zones, both in the Albany River Shaft area. The most important of the two new zones is located approximately 800 feet northeast of the Albany shaft and appears to be an extension of the 'D' Zone and hence has been called the 'D' Zone East. (maps 3 and 4). ~~intersection of the Albany River and the Albany River~~

Outside of these areas only two drill holes intersected significant gold values, i.e. values above .01 ounces per ton; Hole No. G-P-81-28, located 2,000 feet west of No. G-P-81-6, and on trend with the same geophysical anomaly, intersected .08

ounces per ton over 2.9 feet, and hole No. G-P-81-7 located 600 feet south west of No. 3 shaft, intersected 5 feet of .02 ounces per ton.

'D' ZONE AND 'D' ZONE EAST

The 'D' Zone is exposed in trenches on surface and has been explored on the 125 foot level from the Albany River shaft. Previous sampling indicated 140 feet of strike length averaging .34 ounces per ton over a vein width of 25 inches on surface, and 193 feet averaging .24 ounces per ton over a vein width of 26 inches on the 125 foot level. Of the four holes put down to intersect the vein below the 125 foot level, only one hole, G-P-81-4, intersected ore grade values, .68 ounces per ton over 5 feet of core length. The other holes intersected low grade only.

Following discovery of 'D' Zone East in hole No. G-P-81-5, 19 holes were drilled to investigate the lateral and down dip projection of this zone. 5 holes encountered ore grade values over a strike length of 500 feet, all at approximately 275 to 300 feet below surface. The average of the five intersections is .37 ounces per ton over a core length of 5.22 feet or a true width estimated at approximately 5 feet. Drilling indicates that these high grade values diminish to the east and down dip.

The 'D' and 'D' East zones are similar and are probably the same vein. The vein consists of massive quartz with minor carbonate, with or without sulphides. Banded selvages of wall rock occur within the quartz along the contact. V.G. was observed

in several locations. The veins cut andesite for the most part, at a low angle to bedding. In its central portion, it cuts across a line of ... similar to the Howell vein.

To the east, along the boundary between the Crowshore and Pickle Crow properties, and directly along strike with the 'D' zone, previous exploration, including limited drilling, had indicated a quartz vein zone called the Sigmoid vein. Although the detailed drilling results are not available for this report, ore grade values were noted in several holes over narrow core widths.

Farther east, on the Crowshore property, one or more parallel quartz veins were trenched and explored by diamond drilling. An open file report by E.G. Pye of the Ontario Ministry of Mines, mentions surface sampling which averaged .30 ounces per ton gold over a width of 40" for a strike length of 150 feet. Two holes put down in the current drilling encountered sub-economic values below the trenches.

In all likelihood, the 'D' Zone, 'D' East Zone, Sigmoid vein, and Crowshore 'C' Zone, are all the same quartz vein zone. This represents a strike length of at least 2,400 feet.

ZONE IN HOLE G-P-81-6

~~This hole cut ...~~
feet south of the Albany River shaft. The gold occurs within magnetite iron formation with 30% pyrrhotite, minor chalcopyrite, sphalerite and arsenopyrite with irregular secondary quartz, possibly similar to the Central Patricia Main Zone. The host iron formation is part of a band which stretches for 4,000 feet or more.

However, 4 holes, 2 to the east and 2 to the west of this intersection at 200 foot intervals, failed to intersect the zone; thus, indicating the discontinuity of the zone or a north easterly or north westerly strike. No hole was drilled below this intersection.

PORPHYRY GOLD ZONE

Previous drilling on this zone in the west portion of the property had indicated high grade values in three holes; 2.07 ounces of gold per ton over 1.5 feet, 0.96 ounces per ton gold over 1.0 feet and 0.13 ounces per ton over 1.5 feet. These were described as occurring in quartz veins at or near the contact between andesite and porphyry. Two holes, No. G-P-81-41 and 42 were collared in approximately the same location as the previous holes but intersected low gold values only in quartz veins and shear zones within quartz-feldspar porphyry. Character samples were taken of altered-sheared porphyry with negligible results.

ZONE IN HOLE G-P-81-47

VLF-EM and magnetic surveys in the area south of Pickle Crow No. 1 shaft, indicated an EM conductor crossing iron formation, near the west end of a small pond approximately 1,400 feet south of the shaft. This conductor is on strike with the No.5 vein and parallel to the Howell vein. Hole No. G-P-81-47 encountered quartz veins, massive pyrite and iron formation with low gold values

TUNGSTEN MINERALIZATION

Numerous occurrences of scheelite were detected by ultra violet fluorescence, and finally confirmed by wet chemistry assaying.

MINERAL RESERVES

As used in this report, Mineral Reserves describes material which, given favourable economic conditions bearing on gold prices, capital and operating costs, available services, etc. may be classified as ore.

In the following calculations Drill Indicated Reserves includes material indicated from diamond drill hole intersections and extrapolated halfway to the adjacent drill hole intersection, or, in the case of the 'D' Zone East, to surface.

The reserve figure used for the Albany River Main Zone is taken from various reports (Pye, Bergmann). Unfortunately underground sample plans are not presently available. It is likely that in light of the current price of gold, compared to the \$35.00 per ounce on which the original calculations were probably based, a considerably larger tonnage of slightly lower grade may be present in this zone.

In the calculations of mineral reserves, certain arbitrary assumptions are made

- Tonnage Factor - 12 cubic feet per ton
- True width/apparent width ratio 1:1.05
- Dilution factor - 25% at nil ounces per ton gold
- Minimum mining width 4 feet

POTENTIAL MINERAL RESERVES (see Map No. 4)

		'D' ZONE			
A ¹	140'	90'	4.0'	4,200	.17
A ²	193'	90'	4.0'	5,750	.12
B	175'	125'	5.0'	9,115	.68
Total 'D' Zone		175'			
				19,105	.40

'D' ZONE EAST

C	90'	210'	4.1'	6,458	.46	
D	90'	210'	4.0'	6,300	.08	
E	90'	210'	5.0'	7,875	.94	
F	90'	210'	5.0'	7,875	.32	
G	90'	210'	7.3	13,797	.13	
				11,497		
Total 'D' Zone East						40,005 .57
'D' Zone and 'D' Zone East						42,305 .36
Dilution - 25%						61,410- .37-3
Total 'D' and 'D' Zone East						15,353 x --
Albany River Main Zone						76,763 x .30
Total Mineral Reserves						13,876 .40
						<u>90,639</u> .32
						27,763

POTENTIAL RESERVES

If the average depth to length ratio of 5.4 to 1 for the Pickle Crow-Central Patricia ore deposits is applied to the Albany River 'D' Zones and Main Zone, there is potential for a much larger tonnage of mineral reserves.

In the case of the 'D' Zones this is indicated in the following;

Combined length of 'D' and 'D' Zones East - 800 feet

Average width - 4.8 feet.

Average grade, diluted - 0.30 oz/ton

Then; $800' \times (800 \times 5.4) \times 4.8 \div 12 = 1,382,400$ tons at .30 oz/ton.

Similarly, for the Main Zone; however, since the original figures used in the reserve calculation are unavailable, application of the factor is meaningless.

CONCLUSIONS

1. The diamond drilling program was successful in discover-
2. The 'D' Zone and 'D' Zone East contain an estimated **76,763 tons of mineral reserves grading .30 ounces per ton.** Combining the 'D' Zone and the reported reserves [REDACTED] is estimated in the Albany River shaft area.
3. The average depth to length ratio calculated for all of the Pickle Crow-Central Patricia ore deposits is 5.4 to 1. If this ratio is applied to the 'D' zones there is potential for a total of 1,380,000 tons of mineral reserve grading .30 oz/ton. This does not include the potential for the Albany River Main Zone.
4. In hole G-P-81-6, located 500 feet south of the Albany River shaft, a gold bearing zone was intersected in iron formation and assayed .22 over 3.6 feet. Drilling east and west along strike of this intersection failed to indicate continuity of the zone in these directions.
5. Redrilling of several high grade gold intersections associated with porphyry in the western portion of the property failed to repeat these previously reported gold values.
6. A strong quartz-sulphide zone in iron formation was intersected in drilling approximately 1400 feet south of Pickle Crow No. 1 shaft. This zone is co-incident with a VLF-EM conductor which is parallel to the Howell vein and is directly on strike with the No. 5 Vein. Although no significant gold values were encountered, this zone must be considered important and merits further investigation.

1. Dewater the Albany River underground workings, map and sample them, and determine whether they contain mineral resources.

2. Carry out a preliminary mining feasibility study on Albany River Main and 'D' zones to determine whether they are presently viable.

3. Detail mapping of Albany River-Crowshore properties. Include sampling of all quartz veins, sulphide zones, etc.

4. Carry out geochemical sampling over VLF EM conductors and magnetic anomalies, as recommended by H.J. Bergmann in a report dated June 29th, 1979. This should be preceded by an orientation survey over a known gold zone, i.e., the Albany River Main zone, sampling humus, surface till, and basal tills, to determine which medium is most definitive in detecting and delineating bedrock gold mineralization.

5. Further drilling east of the 'D' zone at 200 foot intervals and at 2 elevations, say 250 and 500 feet below surface.

6. Sample Albany River dump, roughly estimated at 25,000 tons.

7. Further drilling on the zone intersected in Hole G-P-81-28; one hole at 200 feet east and west to determine possible continuity of zone.

8. Further drilling of quartz vein - EM anomaly south of No. 1 zone, intersected in Hole G-P-81-47.

9. Discussions should be conducted with the Ontario Government, UMEC and other companies with gold properties in

the area, particularly ~~DMZ~~ et al in the Opapimiskan Lake area, 80 miles north of Pickle Lake, with regard to the possibility of establishing a custom mill in Pickle Lake. Application should be made to the Ontario Ministry of Natural Resources to establish a custom mill in Pickle Lake under the GO-Mill program.

10. Re-examine all underground mining plans, sections, etc. on the Pickle Crow Main (Howell) Zone to determine possible ore reserves remaining in the crown pillar, south iron formation zone and other zones.



ESTIMATED COST OF RECOMMENDED PROGRAM

PHASE I

1. Investigation and Sampling Albany River workings		\$ 75,000
2. Preliminary feasibility study		10,000
3. Geological Mapping of Albany River-Crowshore properties.		10,000
4. Geochemical sampling		10,000
5. Sampling of Albany River Dump		2,000
6. Re-examination of underground plans and sections Pickle Crow Main Zone		5,000
7. Diamond Drilling		
'D' Zone East Crowshore 'C' Zone	5,000'	
zone in Hole G-P-81-6	1,000'	
zone in Hole G-P-81-28	1,000'	
zone in Hole G-P-81-47	2,000'	
Total drilling	9,000' @ \$25 per	<u>225,000</u>
Total Costs		\$342,000

GALLANT GOLD MINES - PICKLE CROW - CROWDING OPTIONS

DETAILS OF DIAMOND DRILL LOGS

HOLE NO.	CO-ORDINATES	BEARING	ANGLE	DEPTH	SIGNIFICANT ASSAYS			
					FROM	TO	FEET	OZ/TON AU
G-P-81-1	50+85E 19+35S	South	50°	406'	260.3	260.9	0.6	.04
G-P-81-2	50+15E 18+75S	South	50	506'	289.0	289.7	0.7	.02
G-P-81-3	49+35E 18+15S	South	50	497'				
G-P-81-4	51+75E 19+90S	South	50	406'	310.5	315.5	5.0	.03
					315.5	316.8	1.3	.02
					316.8	321.8	5.0	[REDACTED]
					321.8	325.0	3.2	.03
G-P-81-5	56+00E 19+50S	Grid South	50	566'	379.2	380.7	1.5	[REDACTED]
					383.2	384.6	1.4	.02
					397.2	402.2	5.0	[REDACTED]
					416.0	420.1	4.1	.02
					540.1	541.0	0.9	.02
G-P-81-6	44+00E 29+50S	Grid South	50	406'	224.4	227.0	2.6	.03
					227.0	230.6	3.6	[REDACTED]
G-P-81-7	12+00E 22+50S	Grid South	50	406'	271.9	277.5	5.6	.02
G-P-81-8	8+00E 21+50S	Grid South	50	406'				
G-P-81-9	28+00E 1+00S	Grid South	50	403'				
G-P-81-10	52+00E 20+00S	Grid South	50	506'	237.0	238.5	1.5	.02'
					255.5	257.0	1.5	.02
					284.0	286.4	2.4	.02
G-P-81-11	53+00E 20+00S	Grid South	50	506'	371.6	376.0	4.4	[REDACTED]
					461.0	466.0	5.0	.02
					466.0	471.0	5.0	.02
G-P-81-12	54+00E 20+00S	Grid South	50	506'	370.3	371.1	0.8	[REDACTED]
					376.8	380.0	3.2	.02
					385.0	390.0	5.0	.03
G-P-81-13	55+00E 20+00S	Grid South	50	504'	373.5	378.5	5.0	[REDACTED]
					378.5	380.6	2.1	.04
					433.5	435.1	1.6	.05
G-P-81-14	57+00E 20+00S	Grid South	50	506'	388.3	390.3	2.0	.03
					390.3	395.3	5.0	.06
					395.3	398.0	2.7	[REDACTED]
G-P-81-15	58+00E 20+00S	Grid South	50	506'				

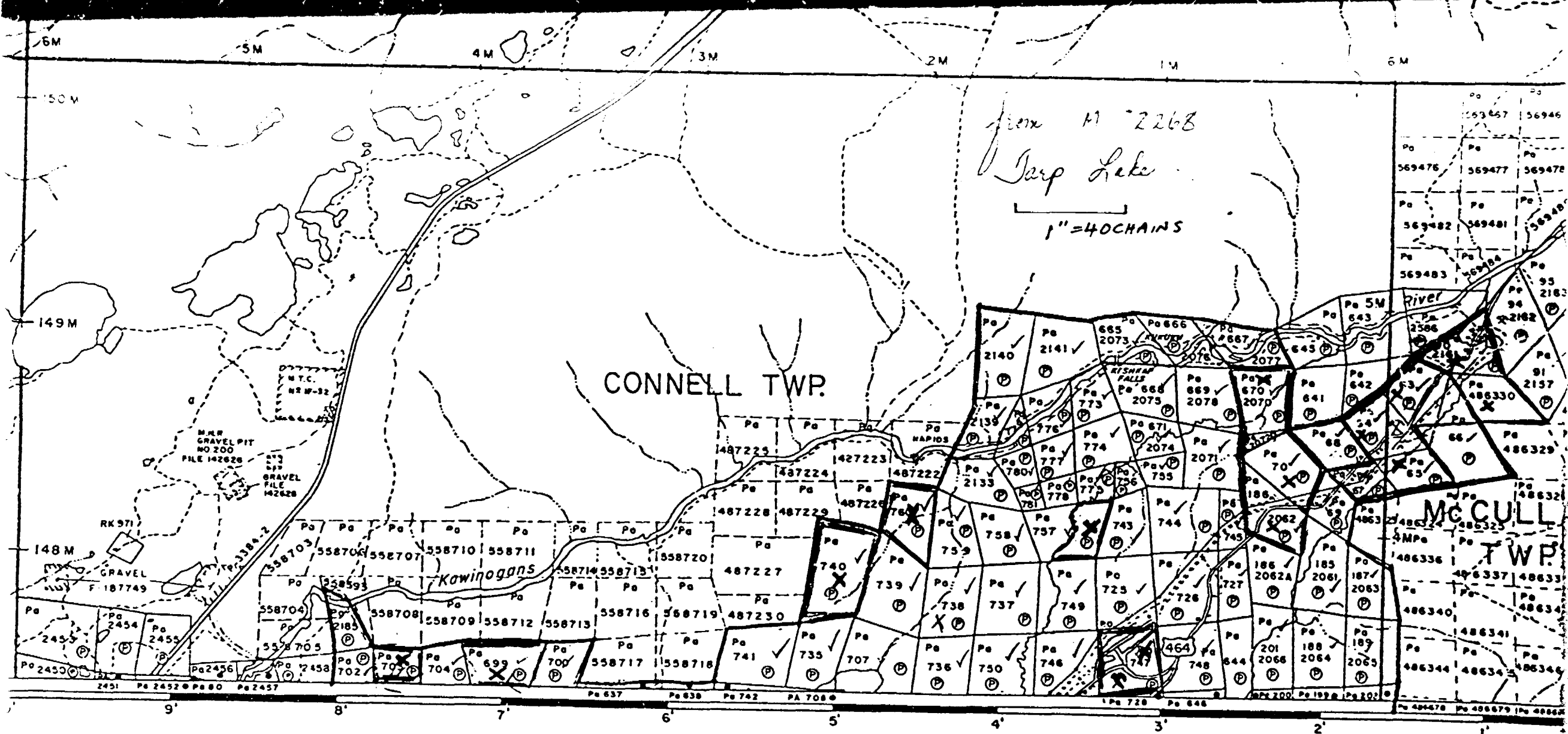
DETAILS OF DIAMOND DRILL HOLES cont'd

HOLE NO.	CO-ORDINATES	DIP/SLURRY	ANGLE	DEPTH	SP. M.	SIGNIFICANT ASSAYS		
						TO	FEET	OZ/TON AU
G-P-81-16	59+00E 20+00S	Grid South	50°	606'	430.7	434.2	3.5	.03
G-P-81-17	58+00E 18+50S	Grid South	50	806'	261.0	266.0	5.0	.03
					266.0	269.4	3.4	.01
					663.1	665.5	2.4	.04
G-P-81-18	56+00E 18+50S	Grid South	50	786'	403.2	404.3	1.1	.02
					509.4	514.2	4.8	.02
					725.6	727.5	1.9	.03
					761.2	763.5	2.3	.03
G-P-81-19	54+00E 18+50S	Grid South	50	806'	548.3	550.9	2.6	.02
					562.4	566.5	4.1	.03
					566.5	567.9	1.4	.05
G-P-81-20	52+00E 18+50S	Grid South	50	806'	299.1	299.6	0.5	.03
					471.0	472.9	1.9	.05
					588.0	589.2	1.2	.02
					600.1	601.6	1.5	.02
					713.9	714.8	0.9	.02
					716.4	717.4	1.0	.02
					795.4	797.2	1.8	.04
G-P-81-21	62+00E 21+00S	Grid South	50	406'				
G-P-81-22	66+00E 21+00S	Grid South	50	406' ¹⁵				
G-P-81-23	62+00E 20+00S	Grid South	50	606'	146.0	148.5	2.5	.03
G-P-81-24	46+00E 29+50N	Grid South	50	406'				
G-P-81-25	48+00E 29+50N	Grid South	50	406'				
G-P-81-26	42+00E 29+50N	Grid South	50	416'				
G-P-81-27	39+80E 29+50N	Grid South	50	406'	15.0	20.0	5.0	.03
					20.0	24.2	2.4	.05
G-P-81-28	28+00E 25+00S	Grid South		406'	184.6	187.5	2.9	.02
G-P-81-29	14+00E 18+65S	Grid South	50	406'	128.1	129.2	1.1	.02
					183.2	183.9	0.7	.04
G-P-81-30	24+00E 7+00S	Grid South	50	406'				
G-P-81-31	51+00E 6+75S	Grid South	50	406'				
G-P-81-32	20+00E 52+00N	Grid South	50	406'				
G-P-81-33	20+00W 27+00N	Grid South	50	406'				
G-P-81-34	4+00W 30+50N	Grid South	50	508'				
G-P-81-35	40+00W 2+00S	Grid South	50	383'				
G-P-81-36	40+00W 8+50N	Grid South	50	406'				
G-P-81-37	80+00W 13+00N	Grid South	50	77'	(exclude from total?)			

DETAILS OF DIAMOND DRILL HOLES cont'd

HOLE NO.	CO-ORDINATES	BEARING	ANGLE	DEPTH	SIGNIFICANT ASSAYS			
					FROM	TO	FEET	OZ/TON AU
G-P-81-37B	80+00W 13+50N	Grid South	50°	406'				
G-P-81-38	88+00W 1+00N	Grid South	50	406'				
G-P-81-39	88+00W 7+00S	Grid South	50	396'				
G-P-81-40	100+00W 16+00N	Grid South	50	406'				
G-P-81-41	74+00W 9+80S	Grid South	50	603'	505.9	506.4	0.5	.05
G-P-81-42	72+00W 9+80S	Grid South	50	606'	112.1	112.9	0.8	0.05
					223.8	225.4	1.6	0.05
G-P-81-43	9+50W 6+10N	Grid South	50	606'	26.5	31.0	4.5	.02
					33.3	36.0	2.7	.03
					46.0	47.4	1.4	.02
					113.8	114.2	0.4	0.05
					114.2	115.0	0.8	.05
					123.2	123.6	0.4	.02
					345.5	346.6	1.1	.04
G-P-81-44	8+50W 6+10N	Grid South	50	611'	371.7	373.8	2.1	.02
					544.2	547.1	2.9	.02
G-P-81-45	57+00E 17+00S	Grid South	55	1006'	618.1	618.5	0.4	0.05
					793.0	793.6	0.6	.02
					821.3	823.0	1.7	.04
					868.0	870.5	2.5	.02
G-P-81-46	55+00E 17+00S	Grid South	55	996'	649.1	649.3	0.2	.03
					803.5	804.1	0.6	.04
					807.1	808.1	1.0	.02
					808.1	809.0	0.9	.04
					865.9	866.5	0.6	.02
					868.7	870.4	1.7	.03
					875.4	876.7	1.3	.03
G-P-81-47	37+00W 3+25S	Grid South	50	696'				
TOTAL FOOTAGE					<u>25,052'</u> ← ?			
					24,445			

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from M 2268
Tarp Lake

1" = 40 CHAINS

DONA LAKE (M. 2228)



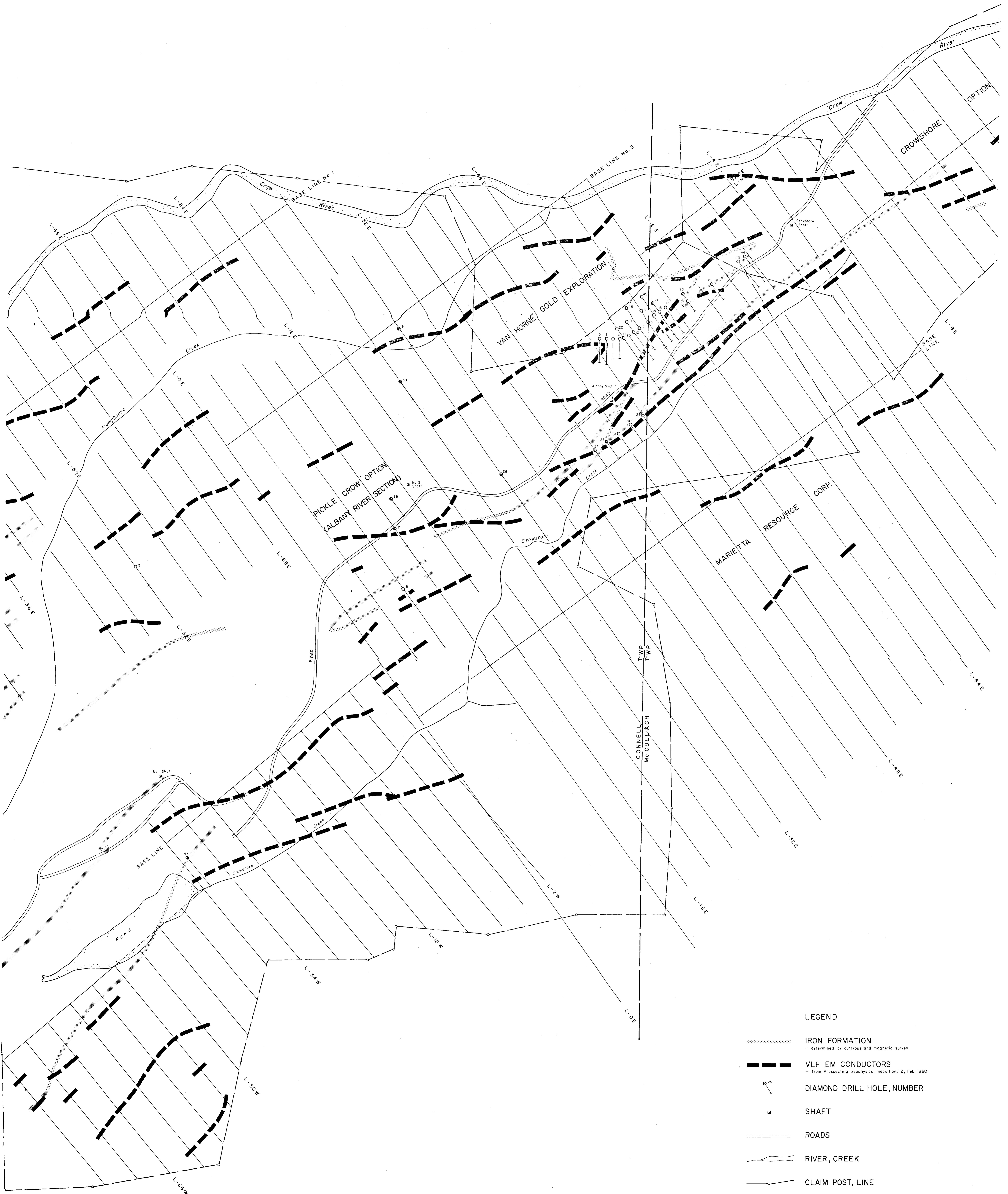
520095E0128 520095E0037 TARP LAKE





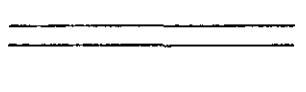


FOR ADDITIONAL

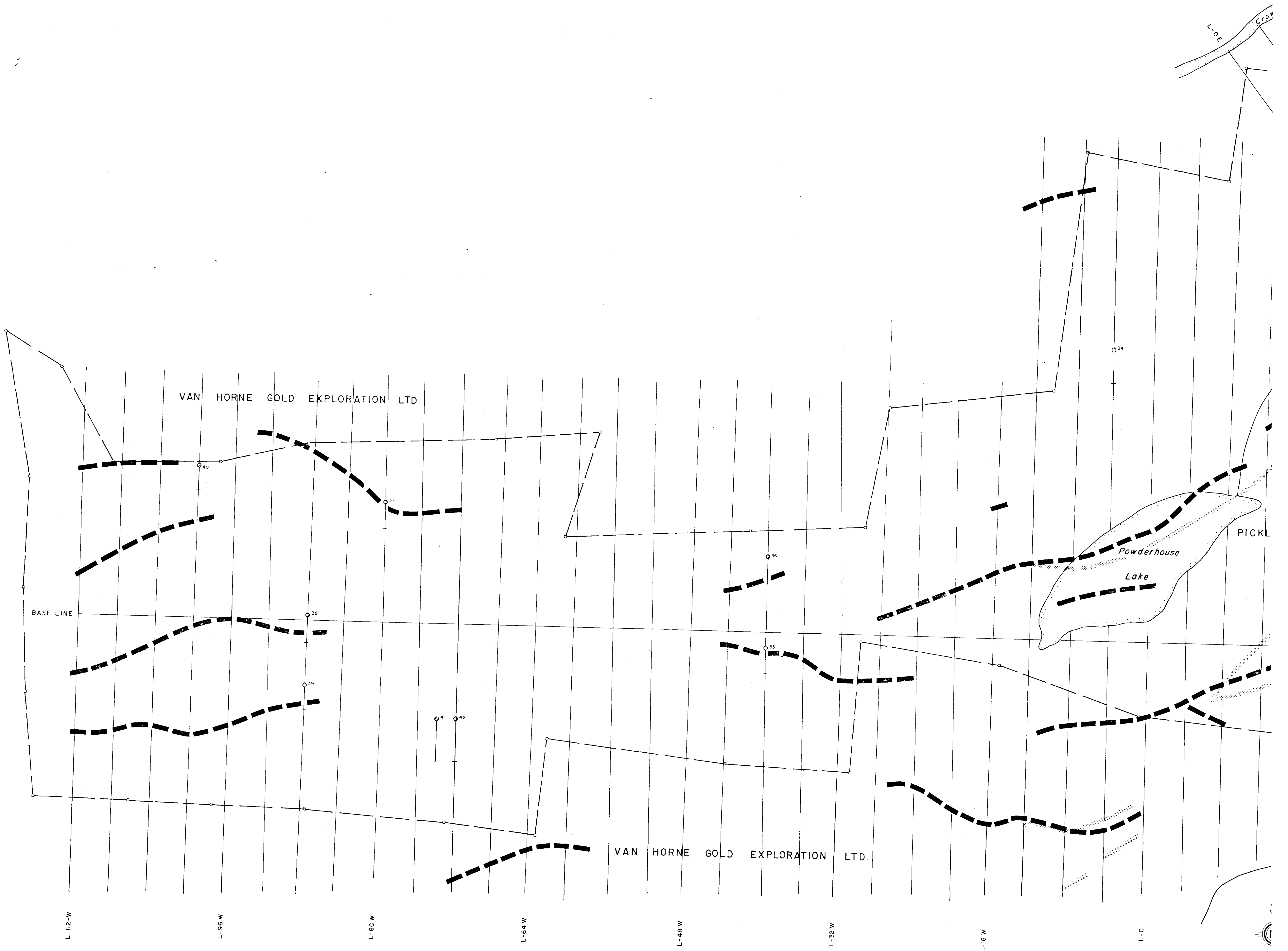
INFORMATION

SEE MAPS:

52 ϕ / 09SE - 0037 # 1-4



- LEGEND**
-  IRON FORMATION
— determined by outcrops and magnetic survey
 -  VLF EM CONDUCTORS
— from Prospecting Geophysics, maps 1 and 2, Feb. 1980
 -  DIAMOND DRILL HOLE, NUMBER
 -  SHAFT
 -  ROADS
 -  RIVER, CREEK
 -  CLAIM POST, LINE

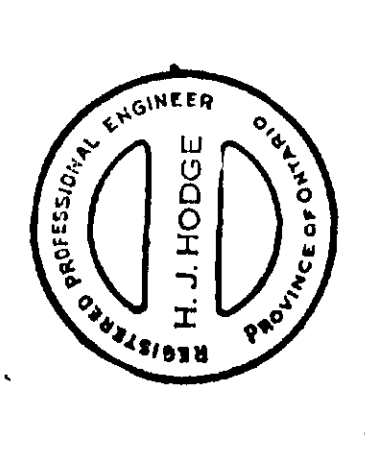
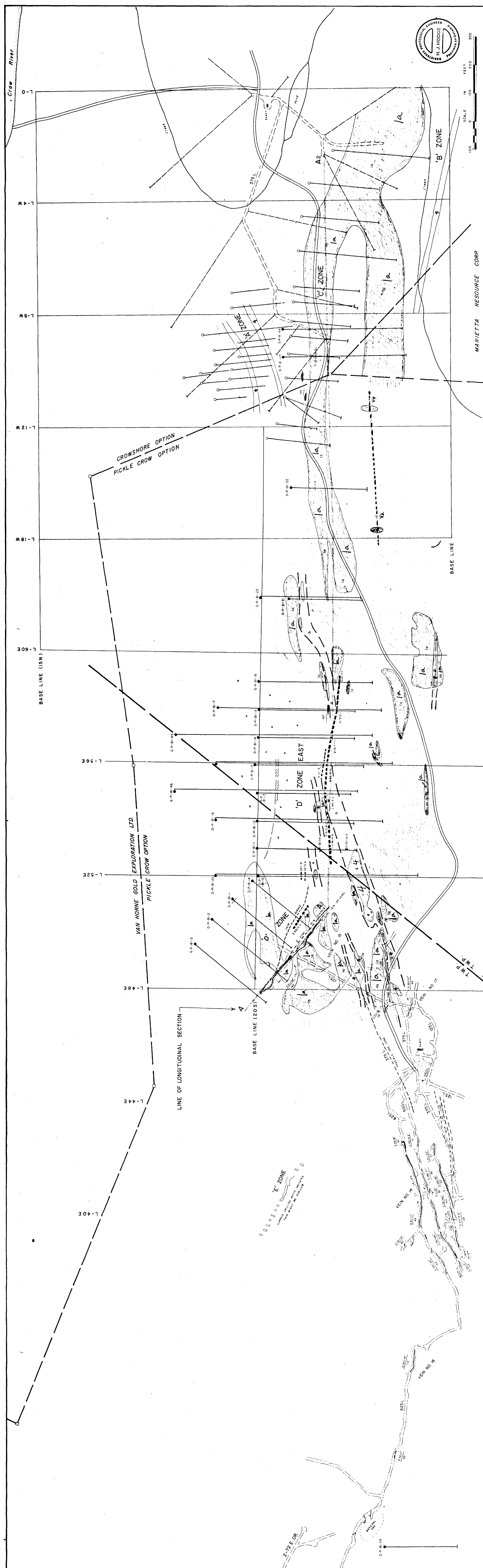


NOTE: for LEGEND see map no.1



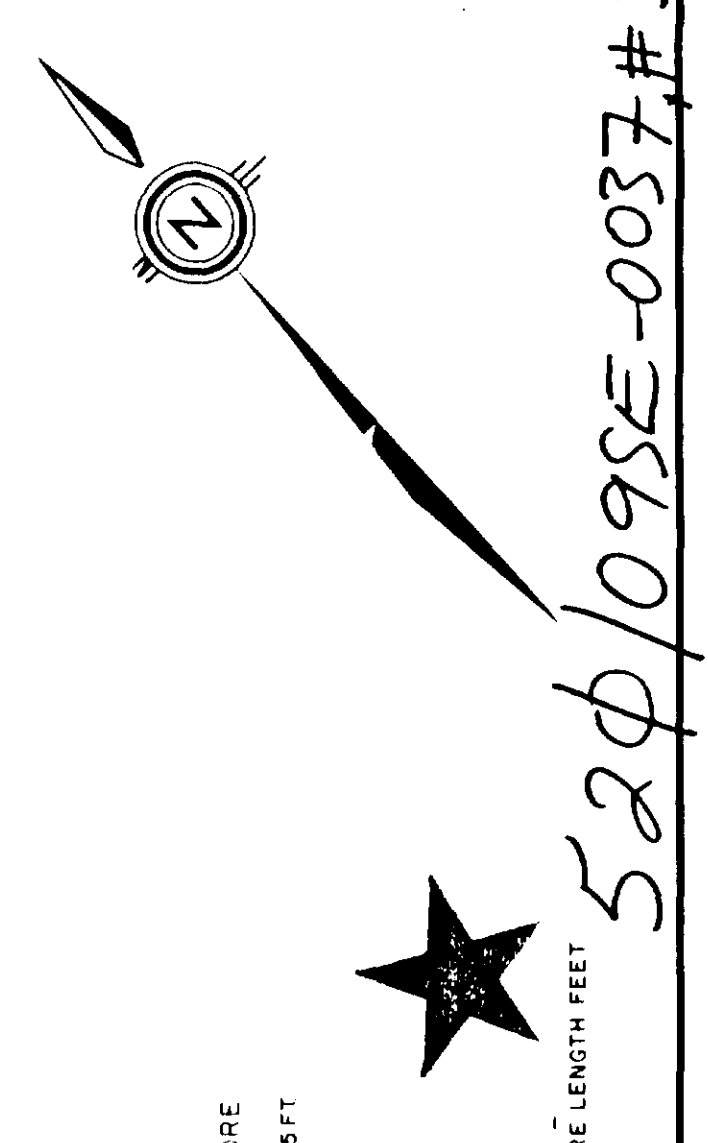
520/09SE-0037, #2





SCALE IN FEET
0 100 200 300

H. J. HODGEE INC. TORONTO ONTARIO
GALLANT GOLD MINES LTD.
PICKLE CROW-CROWSHORE OPTION
 ALBANY RIVER AND CROWSHORE MINES AREA
 PLAN SHOWING
GEOLOGY, DIAMOND DRILL HOLES
AND UNDERGROUND WORKINGS
 SCALE: 1" = 100'
 DATE: November, 1986
 DRAWN BY:
 AUTHOR: H.J. Hodgée, P. Eng.
 MAP No.: 3



- LEGEND**
- 1/4 ANDESITIC VOLCANICS
 - 4 IRON FORMATION
 - 8 FELSIC PORPHYRY
 - 12 QUARTZ VEIN, WIDTH IN FEET
 - 16 OUTCROP, OUTCROP AREAS
 - 20 GEOLOGICAL CONTACT
 - 24 SURFACE OUTCROP
 - 28 CLAIM POST, LOCATION APPROXIMATE
 - 32 VEIN, PROJECTED VERTICALLY TO SURFACE
 - 36 ROADS
- UNDERGROUND WORKINGS**
- ALBANY RIVER
 - 125 FT
 - 250 FT
 - 375 FT
 - 500 FT
 - 625 FT
 - 750 FT
 - 875 FT
 - 1000 FT
- WORKINGS**
- CROWSHORE
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 - 2
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NOTE: GEOLOGY FOR PICKLE CROW - McMURCHY & KEVILL, FEB 5, 1959
 GEOLOGY FOR CROWSHORE - McMURCHY & KEVILL, FEB 5, 1959
 FIELD CHECKS BY VAN HORNE, 1987

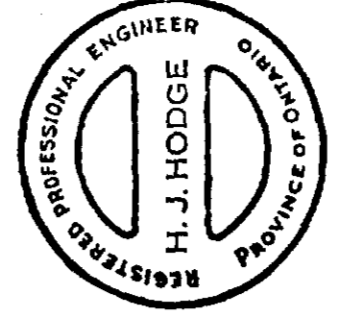
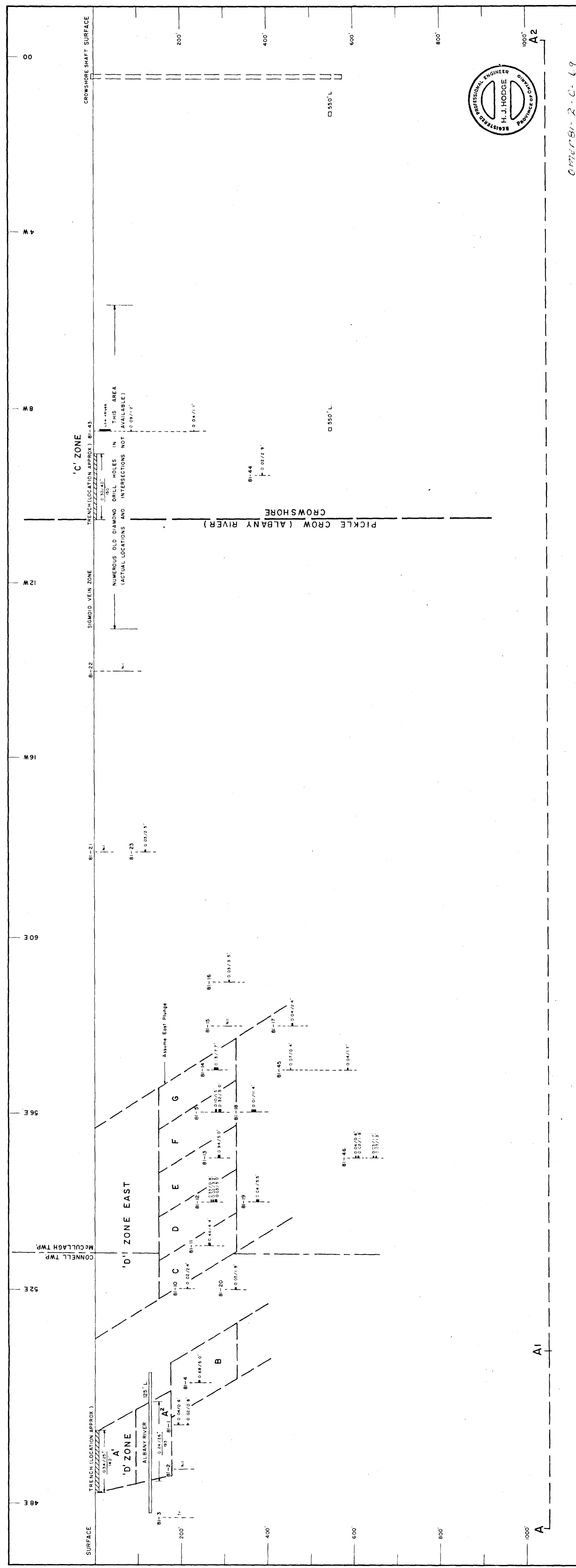
52φ/09SE-0037, #3

BASE LINE (30S)
 G.P.-81-27
 G.P.-81-26
 G.P.-81-25
 G.P.-81-24

CONNELLS TWP.
 McULLAGH TWP.

52φ/09SE-0037, #3

220
 52φ/09SE-0037, #3



0176781-2-C-69

J. H. HODGE INC.	TORONTO
GALLANT GOLD MINES LTD.	
PICKLE CROW - CROWSHORE OPTIONS	
'D' ZONE	
LONGITUDINAL SECTION	
SHOWING	
DIAMOND DRILL HOLE INTERSECTIONS	
AND	
ESTIMATED MINERAL RESERVES	
SCALE: 1" = 100'	DATE: Nov 24, 1987
AUTHOR: H. Hodge	DRAWN BY:
	MAP NO.: 4

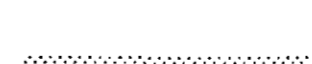






520/09SE-0037, #4

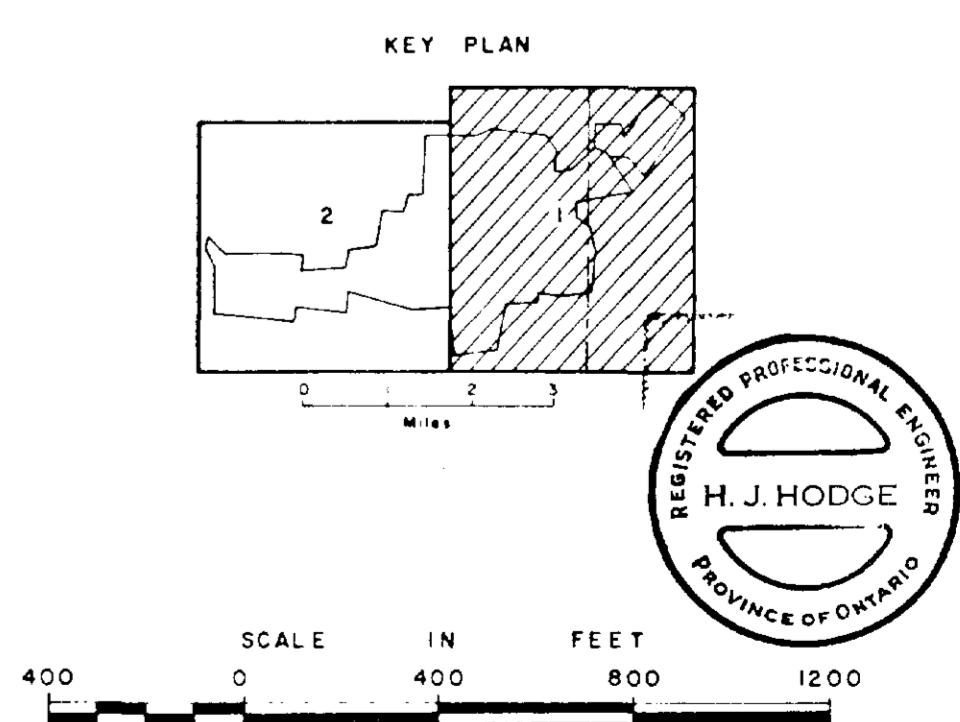


★ 52φ/09SE-0037, #1



LEGEND

-  IRON FORMATION
- determined by outcrops and magnetic survey
-  VLF EM CONDUCTORS
- from Prospecting Geophysics, maps 1 and 2, Feb. 1980
-  DIAMOND DRILL HOLE, NUMBER
-  SHAFT
-  ROADS
-  RIVER, CREEK
-  CLAIM POST, LINE

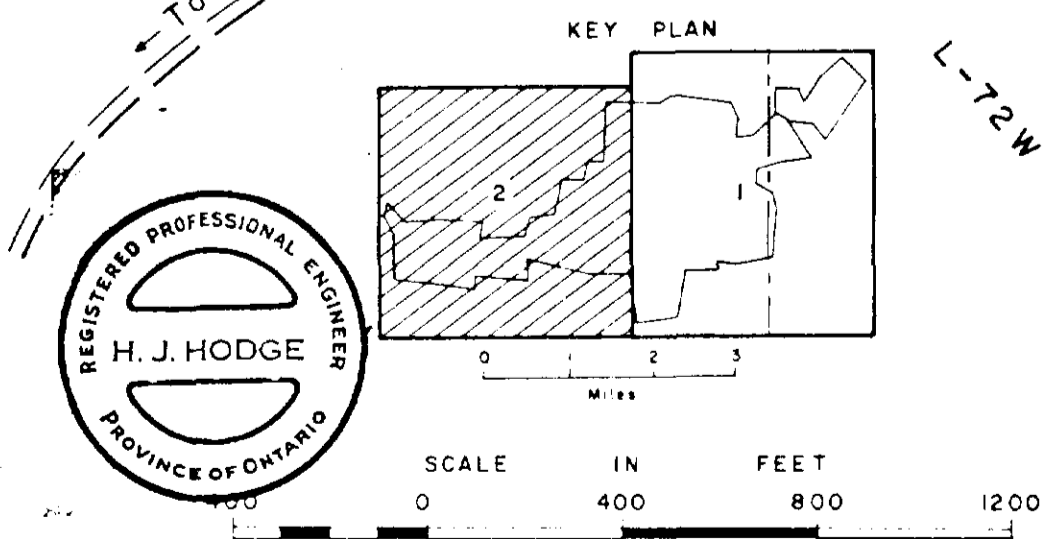


H. J. HODGE INC. TORONTO ONTARIO
GALLANT GOLD MINES LTD.
PICKLE CROW-CROWSHORE OPTION
 PICKLE LAKE AREA, ONTARIO
GEOPHYSICAL COMPILATION PLAN
 SHOWING LOCATION OF
1981 DIAMOND DRILL HOLES

SCALE: 1" = 400' DATE: November, 1981 DRAWN BY: gmeb
 AUTHOR: H. J. Hodge, P. Eng. MAP No.: 1

★ 52φ/09SE-0037, #1

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H. J. HODGE INC. TORONTO ONTARIO	
GALLANT GOLD MINES LTD.	
PICKLE CROW-CROWSHORE OPTION	
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GEOPHYSICAL COMPILATION PLAN	
SHOWING LOCATION OF	
1981 DIAMOND DRILL HOLES	
SCALE: 1" = 400'	DATE: November, 1981
DRAWN BY: gmes	
AUTHOR: H. J. Hodge, P. Eng.	MAP No.: 2

NOTE: for LEGEND see map no.1

★ 520/09SE - 0037, #2

OMCPEX-2-0-68