



52N04SW9996 13 HEYSON

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Diamond Drilling

Township of Heyson

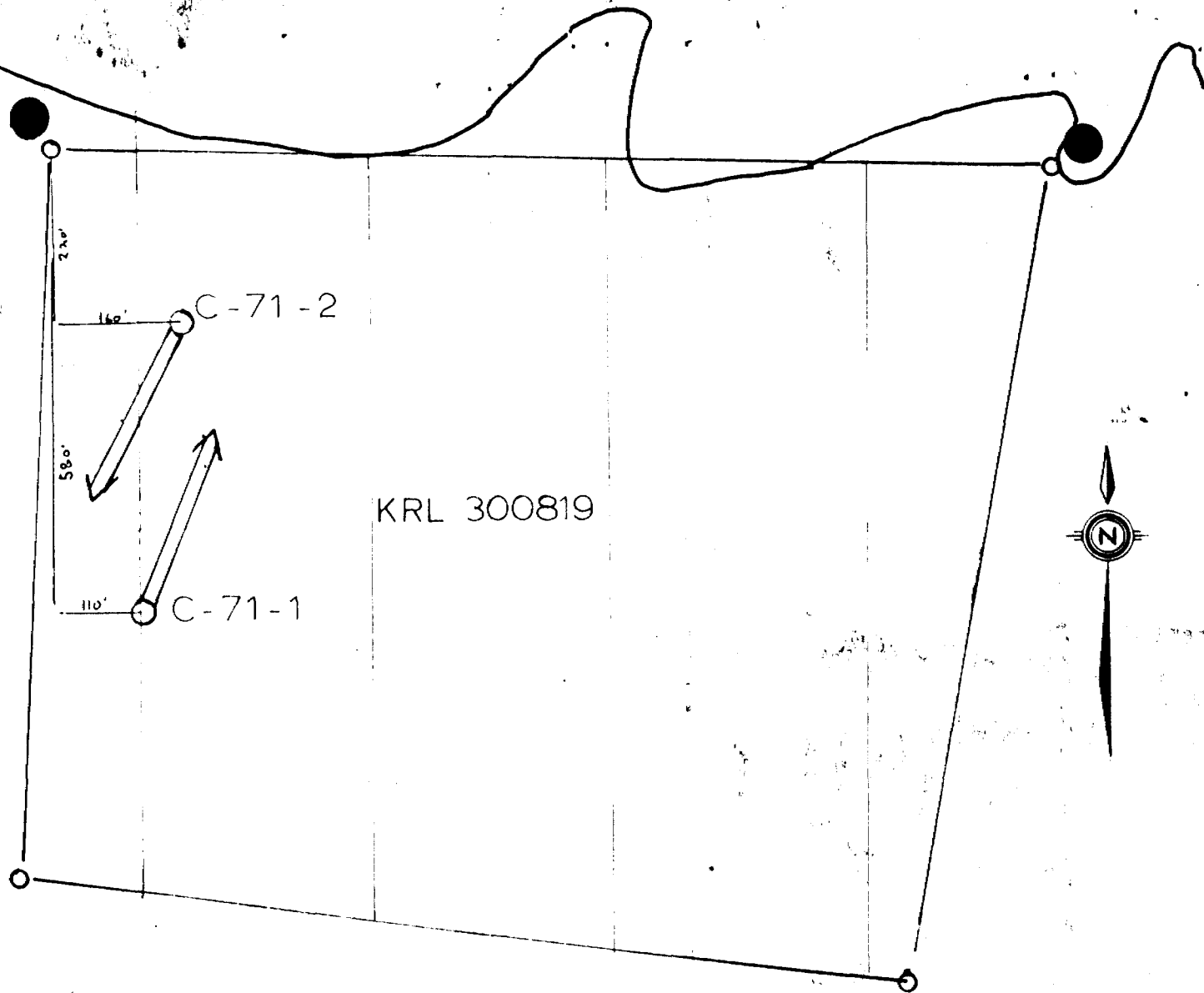
Report N^o: 13

Work performed by: Cochenour Willans Gold Mines Ltd./Coin Lake option

Claim N ^o	Hole N ^o	Footage	Date	Note
KRL 300819	C-71-1	496'	Sept/71	(1)
	C-71-2	501'	Sept/71	(1)
KRL 406	C-71-3	732'	Nov/71	

Notes:

(1) 60/72 (Dome Twp.)



DIAMOND DRILL LOCATION SKETCH
 HEYSON TOWNSHIP

C-71-1 -45° 496'

C-71-2 -45° 501'

Scale: 1" = 200'

RED LAKE
 MINING DIV.
RECEIVED
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Three diamond drill holes were drilled on the property for a total of 1,730 feet. Two holes were drilled on claim KRL.407 testing a relatively strong V.L.F.-E.M. anomaly. A third hole was drilled on claim KRL.408 to test the strongest I.P. response on the property. The I.P. response was discovered to be due to a pyritic quartz carbonate stringer which yielded a .98 oz/ton gold over 1.5 feet. This was the best value obtained in all the drilling.

The diamond drill hole logs are as follows:

C-71-1

-45°

KRL. 300819

5.0 - 350.0 Granodiorite

Mineralogy: Feldspar 75%; Dark minerals - mainly biotite and amphibole 10 - 15%; Quartz 5 - 15%

traces sulfides, mainly Cpy, lesser Py and Po
Texture: Generally equigranular, medium grained; sheared areas - mafics segregate to form blebs

Structure: Generally foliated at 40-45° to C.A.

Shearing varies from slightly sheared to highly sheared; a minimum of 4 sets of fractures:

- (1) 45° to 55° to C.A., generally 55°, parallel to foliation, slickensided surfaces developed occasionally some plating of Po, Py and Cpy along plane; generally only minor sulfides; spacing is 3 - 6" along C.A.
- (2) 80° - C.A. quartz carbonate filled; occasional sulfides; spacing is very irregular.
- (3) 5 - 15° to C.A., possibly two sets:
 - (a) quartz carbonate filled, occasional blebs Cpy
 - (b) slickensided
- (4) 120° to C.A. generally quartz carbonate filled; occasional sulfides

Normal Color: Pinkish because of feldspars, flecked with dark mafic minerals.

Alteration Zones: Well foliated at about 45° to C.A., crystals form sheared out, grey to greenish grey color with dark mafic flecks; 25-40% of rock is altered this way.

5.0 - 119.0 about 30% altered granodiorite
119.0 - 145.0 well developed, well foliated alteration zone
145.0 - 220.0 30% altered granodiorite
220.0 - 350.0 shearing intensifies down plunge of hole; dark minerals form blebs
306.0 - 350.0 crystal structures sheared out, generally only vague stretched outlines, pink feldspars only occasionally seen; general mottled grey appearance.

Economic Geology:

5.0 - 50.0 occasional Cpy, less than $\frac{1}{4}\%$
50.0 - 70.0 possibly $\frac{1}{4}$ - $\frac{1}{2}\%$
70.0 - 124.0 minor Cpy, less than $\frac{1}{4}\%$
- 98.6 flat quartz filled fractures with large (1 cm diameter, 3 cm length) bleb Cpy
- 111.2 possible speck visible gold
124.0 - 126.0 1% Cpy
126.0 - 350.0 occasionally Cpy, much less than $\frac{1}{4}\%$

350.0 - 419.6 Mafic Dike

Lamprophyre? Diorite? Fine grained, dark green
3% quartz eyes - up to 5 mm diameter; highly sheared and foliated at 40° to C.A. 5% quartz carbonate stringers

353.2 - 354.0 quartz carbonate stringers
368.7 - 371.4 highly altered section of granodiorite, sharp contacts - possible inclusion
371.4 - 419.6 mafic dike with 5% feldspar 'phenocrysts'
410.4 - 414.3 granodiorite section

419.6 - 496.0 Granodiorite - same as before

Well foliated, recognizable crystals, mottled appearance.

445.7 - 446.4 sliver of mafic dike along one side of core
453.3 - 454.7 mafic dike, same as before - sharp contacts and foliation at 10° to C.A.

Economic Geology:

419.6 - 470.0 Tr to $\frac{1}{4}\%$ Cpy
470.0 - 496.0 Tr Cpy
Cpy occurs in fractures at 45° , 80° , 120° , 10°
Occurs both in altered and unaltered rock, approximately equal proportions

Samples:

#122	106.5 - 111.0	width	4.5
#123	111.0 - 111.5		.5
#124	111.5 - 116.0		4.5

C-71-2

-45°

KRL. 300819

5.0 - 396.5 Granodiorite

Mineralogy: Traces Py and disseminated Cpy in fractures. Feldspar 70%; Amphibole, chlorite and biotite 15-20%; Quartz 10%

Texture: Medium grained, equigranular

Structure: Foliated at 45 - 50° to C.A. Dark minerals generally segregated and form clots up to 1 cm in diameter. At least four sets of fractures are dominant:

- (1) 45 - 50° to C.A. parallel to shearing, separating at about 5' along core axis, shows some movement
- (2) 10° to C.A., slip planes developed irregular intervals
- (3) 60 - 65° to C.A. generally filled with quartz, irregular intervals

30 - 50% of rock is altered as well as sheared, the less altered rock is generally pinkish and foliated. Altered rock is highly sheared, well foliated, light to medium green appearances, crystals are not distinct. Alteration consists of sericitization, silicification, carbonization, epidotization, chloritization

99.0 - 105.0 strong shear zone highly alteration

1 - 3% Py, occasional Cpy

122.0 - 123.0 strong alteration shear zone

Economic Geology: very minor disseminated Cpy occurring in all types of fractures, occasional hairline fractures with hairline stringers Cpy. Cpy content does not appear to be associated with dominant shearing and alteration.

396.5 - 457.3 Mafic Dike

Dioritic - 5% feldspar phenocrysts up to 5 cm in diameter, generally fine grained, dark grey green, foliated at 45° to C.A.

457.3 - 480.4 Granodiorite

Same as before - slightly to moderately altered, occasional tr Py and Cpy

480.4 - 483.4 Mafic Dike - as before

483.4 - 501.0 Granodiorite - as before

Samples:

#262 297.5 - 304.5 Cu - nil Au - .04

#206 - 290 Cu - nil Au - Tr

C-71-3

-45°

KRL. 406

0.0 - 44.0 Casing

44.0 - 134.9 Biotite, Granodiorite

Mineralogy: Feldspars 70 - 75%; Quartz carbonate stringers 2 - 5%; Quartz 10 - 15%; Biotite and chlorite 10 - 15%. Accessories? Minor and trace amounts of Py, Cpy and MoS, associated with quartz in fractures, generally less than 1/4% total sulfides. Texture: Medium grained, equigranular to clotty appearance, mafic minerals tend to occur as clotty segregations varying in size from 1-10 mm diameter. On shear zones mineralogy and textures are obliterated and indeterminable.

Structure: varies from slightly sheared and slightly foliated to highly sheared. Fracturing is present throughout but varies considerably in intensity and frequency. Four common sets of fracturing observed:

- (1) 5 - 15° to C.A.
- (2) 35 - 50° to C.A. dominant shearing at 50° to C.A.
- (3) 60 - 70° to C.A.
- (4) 150 - 160° to C.A. generally quartz filled and moly mineralization appears associated with this fracturing.

Alteration: silicification and sericitization common in the more intense shear zones, generally all primary structures and mineralogy have been destroyed, muscovite common. Salmon pink alteration of feldspar possibly saussuritization in areas of slight shearing or stress, which is not evident in stronger or more intense shears.

Economic Geology:

Very minor trace amounts of choleopyrite and molybdenite were observed. The choleopyrite was generally disseminated in tiny fractures but not exceeding 1/4%. Molybdenite was observed to occur disseminated and fine stringers in fractures; also in only trace amounts, except at 132.4 where a quartz carbonate stringer with 1/4" seam of moly cut the granodiorite.

44.0 - 48.0 weathered and fractured granodiorite, vague foliation and crystals due to alteration

48.0 - 71.0 mottled grey appearance, highly recrystallized, mildly silicified, crystals appear as ghosts; occasional Cpy and Py and Moly

71.0 - 72.0 moderately fractured, 15-20% silicified, highly sericitized, sheared at 20 - 30° to C.A.

72.0 - 89.0 same as 48.0 - 71.0

89.0 - 93.0 highly altered, same as 71.0 - 72.0

1/8 - 1/4% Py, occasionally Cpy, Moly

93.0 - 106.0 slightly sheared, feldspar 40%, salmon pink (saussuritized), original textures readily

determinable, mafics segregated into clots, minor Py

106.0 - 137.0 shearing intensifies with depth. Original textures destroyed, silicification and sericitization increase;

5 - 10% quartz carbonate stringers; shearing 30° to
C.A., minor Py, Cpy
132.4 seam molybdenite

134.9 - 135.8 Mafic Dike

Lamprophyre? Fine grained, highly sheared, silicified
15% quartz stringers; 4 - 5% fine disseminated pyrite

135.8 - 459.7

137.0 - 155.0 Granodiorite, slightly sheared feld-
spar, salmon pink, clotty micas, fractured; quartz
carbonate filling with minor Cpy and Py. Shearing
and alteration intensify down hole

155.0 - 176.0 highly sheared and altered - fracturing
increased in frequency and intensity. Silicification
and sericitization increases. Minor Py, tr Cpy.

176.0 - 186.4 highly fractured, dark reddish altera-
tion along fractures (hematite?); highly foliated and
sericitized

186.4 - 190.0 mylonite zone, very fine; 1/2% dissemi-
nated Py

190.0 - 223.0 highly altered, sheared and blocky,
silicified, sericitized, reddish stained, vuggy in
sections

223.0 - 236.8 moderate shearing and alteration;
feldspars salmon pink (saussuritized)

236.8 - 242.6 shear zone, highly silicified, serici-
tized, minor Py, tr Cpy and Moly

241.7 fine stringer of Py and Moly

242.6 - 459.7 pinkish granodiorite (saussuritized);
clotty mafics moderately sheared in sections; 2 - 5%
quartz carbonate stringers. Tr Py, occasional speck
Cpy; foliation at 50° to C.A. Shearing less distinct
down hole, quite massive at 350.0 except for fracturing;
saussuritization diminishes.

459.7 - 475.3 Mafic Dike

Lamprophyre? Highly sheared and leached. Sharp contacts.

469.7 - 471.0 granodiorite inclusion, partially re-
melted; quartz remobilized to form quartz eyes giving
rise to a porphyritic texture.

475.3 - 641.0 Granodiorite

Contact partially remelted, quartz eyes 15 - 20% give
rise to porphyritic texture. Rapid change back to
normal appearance within two feet of dike.

500.0 pinkish color disappears, mottled grey appear-
ance, good clear crystal boundaries

570.0 shearing intensifies and return of pinkish
color

641.0 - 641.4 Lamp Dike - as before

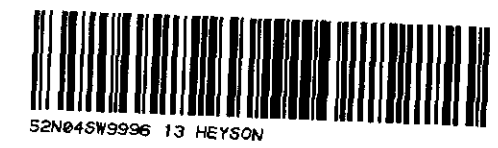
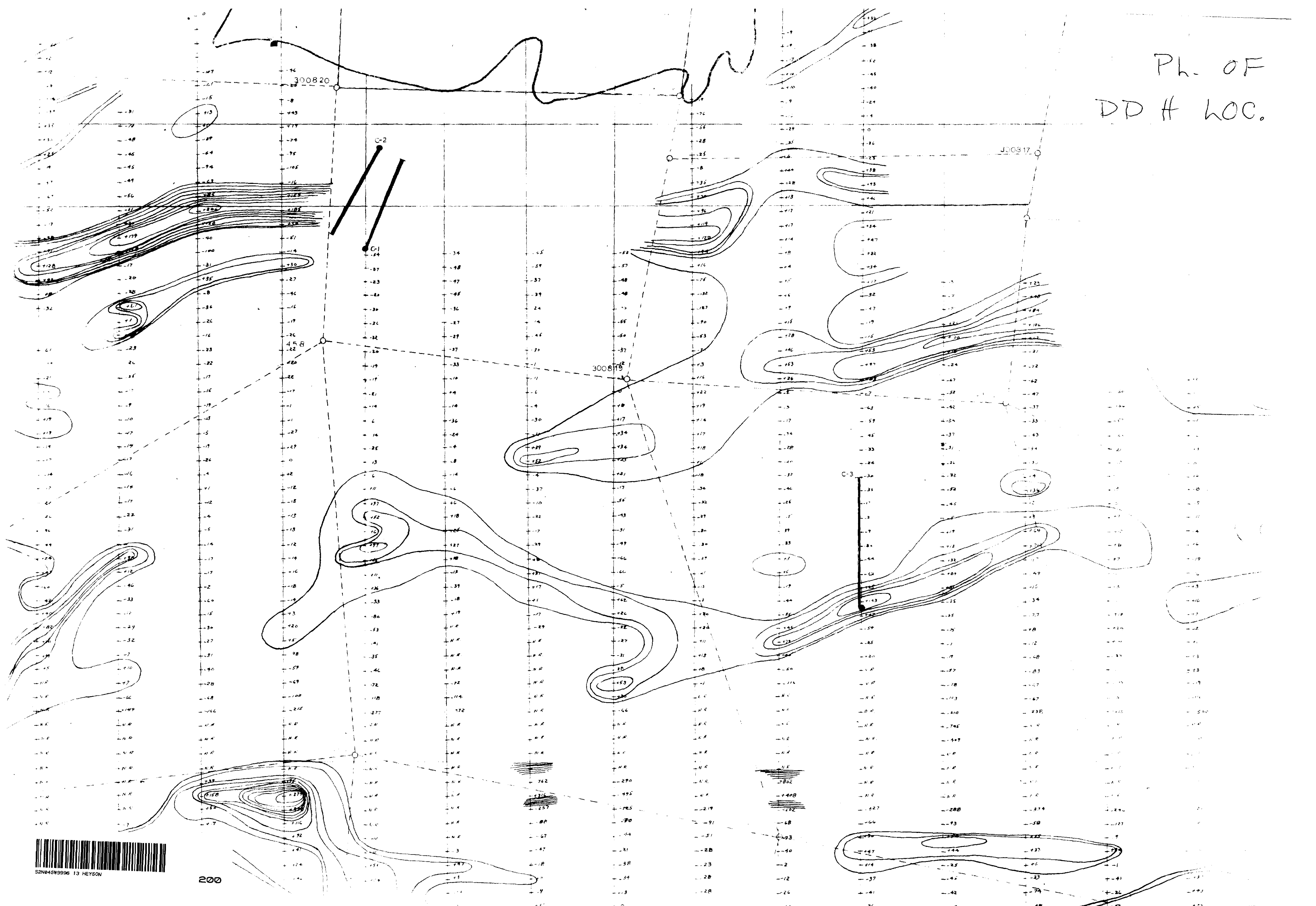
641.4 - 732.0

641.4 - 707.0 granodiorite as 473.5 - 641.0
 707.0 - 712.5 highly sheared and silicified, foliated
 at 40 - 50° to C.A. $\frac{1}{4}$ - $\frac{1}{2}$ % Py
 712.5 - 714.0 fracture zone, quartz carbonate
 filled; 10 - 15% crystals pyrite
 714.0 - 732.0 pinkish altered granodiorite, slightly
 sheared

Samples:

#	Start	End	width	Au	Tr
# 1	88.0	92.4	4.4		
# 2	105.8	110.5	4.7		.08
# 3		114.7	4.2		.03
# 4		119.8	5.1		.08
# 5		124.7	4.9		.06
# 6		129.7	5.0		.06
# 7		134.7	5.0		.04
# 8		137.0	2.3		.02
# 9	157.6	162.6	5.0		.02
#10		167.2	4.6		.02
#11		172.1	4.9		Tr
#12		176.9	4.8		.02
#13		182.0	5.1		Tr
#14		186.6	4.6		.02
#15		191.0	4.5		Tr
#16		196.2	5.1		Tr
#17		202.2	6.0		Tr
#18		207.2	5.0		Tr
#19		212.2	5.0		Tr
#20		217.0	4.8		Tr
#21		222.2	5.2		Tr
#22	236.9	241.0	4.1		Tr
#23		242.6	1.6		Tr
#24	709.0	712.5	3.5		Tr
#25		714.0	1.5		.98
#26		719.0	5.0		.04

Pl. of
DD # LOC.



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