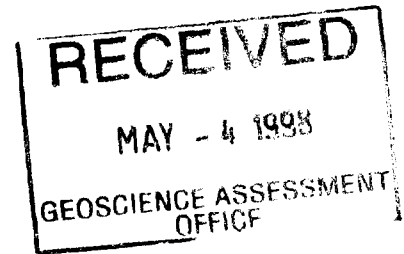




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DIAMOND DRILLHOLE LOGS & SECTIONS

Pele Mountain Resources Inc.

Wawa Property

96-1 to 96-4 & 97-1 to 97-36

Volume 1 of 1

PELE MOUNTAIN RESOURCES INC.
Wawa Properties
Jacobson & Riggs Townships, Northern Ontario
DIAMOND DRILLING RESULTS (96-01 to 97-33)

Pele Mountain Resources Inc.
Wawa Property- Diamond Drillhole Summary

<u>DDH#</u>	<u>Zone</u>	<u>Zone Description</u>	<u>Zone Intersection(m)</u>	<u>Value (gm.Au/ton-m)</u>
96-1	Markes North	silic-brecc.basalt,2-5%py	0.57-3.0 10.0-12.0 (0.57-12.0 19.0-21.0	6.22 / 2.43 m 10.08 / 2.0 m 4.25 / 11.43 m) 5.31 / 2.00 m.
96-2	Markes Zone	qtz/carb/brecc basalt	0.50-8.0 (0.50-15.0	11.73 / 7.5 m. 7.54 / 14.5 m.)
96-3	Markes Zone	carb-shear QFP 5%py	35.0-36.0	3.77 / 1.0 m.
96-4	Markes Zone	missed target (overtop)		
97-1	Markes Zone	qtz-carb-shear basalt	62.90-65.40 66.90-67.70 70.0-70.60	5.09 / 2.50 m. 1.62 / 0.80 m. 2.71 / 0.60 m.
97-2	Markes Zone	qtz-carb-shear basalt	65.70-66.10 78.50-79.0	1.05 / 0.40 m. 1.12 / 0.50 m.
97-3	Markes Zone	qtz-carb-shear basalt	106.51-106.96	1.11 / 0.45 m.
97-4	Markes Zone	qtz-carb-shear basalt	137.90-138.36	1.35 / 0.46 m.
97-5	Markes North	sheared basalt-5-7%py	44.40-44.76 (44.40-45.28 60.98-61.35 73.72-74.62	4.30 / 0.36 m. 2.40 / 0.88 m.) 4.97 / 0.37 m. 1.06 / 0.90 m.
97-6	Markes North	sheared basalt 10-15%py	86.55-86.84	2.25 / 0.29 m.
97-7	Markes North	qtz-carb-sheared basalt qtz-carb-sheared QFP qtz-carb.sheared basalt qtz-carb.sheared basalt	45.66-47.07 68.90-69.28 70.71-71.20 71.94-72.10	1.14 / 0.41 m. 3.12 / 0.38 m. 1.73 / 0.49 m. 6.44 / 0.19 m.
97-9	Markes North	sheared basalt 40-80%py sheared basalt 50-80%py	43.33-43.73 58.53-59.16	1.33 / 0.40 m. 3.18 / 0.63 m.
97-10	Markes North	qtz-carb-shear basalt 50-60%	74.87-76.0	4.85 / 1.13 m.

97-11	Markes Zone	qtz-carb-shear basalt (brecciated, 1-10% py)	14.52-15.23 18.0-18.83	3.71 / 0.71 m. 1.48 / 0.83 m.
97-12	Markes Zone	qtz-carb-shear QFP	5-7% 51.34-51.78	2.46 / 0.44 m.
97-14	Markes Zone	brecc-silic basalt	5-10%py 154.14-154.63	1.83 / 0.49 m.
97-16	Markes Zone	sheared QFP 5%py (qtz-carbonate rich)	150.35-151.84 (150.35-150.75)	3.14 / 1.49 m. 9.27 / 0.40 m.)
97-18	Markes Zone	qtz-carb.QFP	5-10%py 50.44-55.65 (54.70-55.65)	4.07 / 5.21 m. 16.99 / 0.95 m)
97-27	"A" Zone	sheared rhyolite	3-10%py 133.17-134.18	3.10 / 1.01 m.
97-28	"A" Zone	sheared rhyolite-QFP	95.92-119.07	6.36 / 11.54 m.
97-29	"A" Zone	sheared alt.QFP (footwall with basalt)	80.35-86.80	11.05 / 1.80m (8.28/3.75m)
97-30	"A" Zone	sheared rhyolite	133.30-145.28	4.70 / 4.05m
97-31	"A" Zone	sheared rhyolite-QFP	188.04-199.17	6.43 / 4.28m
97-32	"A" Zone	silic. quartz-flspr porph	75.0-75.60	1.131 / 0.60m
97-33	"A" Zone	silic.rhyolite-sheared	98.40-99.52	2.51 / 1.12 (3.43 / 0.51m)
97-34	"A" Zone	silic/shear F.volc silic/shear F.volc	-10%p 267.1-268.6 273.1-275.8	2.23 / 1.52 m 2.01 / 2.64 m
97-36	"A" Zone	sheared basalt	1-2%p 321.7-322.5	5.69 / 0.77m

1200157 Ontario Inc.

DRILLHOLE # 96-1

Markes-Wawa Property

Claim # 1174694

Coordinates- North Zone

1.0 meters north of surface zone (14 feet wide)

Date Started- Nov.11, 1996

Date Finished- Nov. 11, 1996

Dip- -70

Azimuth- 180 degrees

Logged by- John C. Archibald, B.Sc.Geologist

BQ Size core- drilled by Colbert Diamond Drilling Ltd.

**0.57 - 3m.: bleached, altered silicified Mafic Volcanic Flow-
'SHEAR ZONE'; brecciated, marblized, flow
banded with bands pyrite and diss. py in fractures; from 2-
5% min. (tuffac.to brecc.)**

3m.-45m.: Mafic Metavolcanic Flow- basalt-

**3.0-10.0 m. less alteration, bleaching, increased flow
banding; incr.talc/chloritic
content, pale alt. along fractures with diss. py as blebs,
bands; core slightly brecciated**

**-10.0-15.0 m. core is brecc. mafic volcanics with
alteration/bleaching along
fractures /contacts; some diss. py in sil. fractures;
carb.rich with hint of min.lineation at
15-35 to core axis**

**-15.0-20.0m. increased brecciation, marblized look to 25m.,
diss.py in fractures
(1-2%), sheared at low angle to core axis w. carb. alt.(dk.
chl. alt.along contacts at 30
to c.a.; diss. py all through core**

**- 20.0-23.0 m. gen. lineation and carb. flow banding at 30
to c.a.; diss. py in chl.
rich fractures (darker, mafic) core has marblized look
(brecc.with carb. filling)**

**-23.0-28.5m. core is brecc. w. bands mafic volc., lot carb.
filling, broken at all
angles except, lineated at 30 to core axis, rusty+ diss. py in
fractures (+1% diss. cubic py)**

- 28.5-39.0 m. more homogeneous, chlorite-rich mafic volcanics; less brecciation except from 35-39m. where contacts are bleached/broken, carb. fracture filling + odd speck py diss. in carb. rich fractures-marblized look to core
- 39.0-45.0m. odd fracture with qtz. carb. (ie.: 42.3m., 43-43.5) mainly at 45 to core axis + odd lense /bleb py
- 45.0 m.: END OF HOLE - ended in chlorite-rich mafic volcanics

1200157 Ontario Inc.

DRILLHOLE # 96-2

Markes-Wawa Property

Claim # 1174694

Coordinates- Easting- L82+00W

 Northing- 0+51 S

Date Started- Nov.12, 1996

Date Finished- Nov. 12, 1996

Dip- -80

Azimuth- 180 degrees

Logged by- John C. Archibald, B.Sc.Geologist

BQ Size core- drilled by Colbert Diamond Drilling Ltd.

0.5 - 8.0 m.: Silicified Mafic Metavolcanic Flow-

with cherty frags, fine grained diss. py in fractures, brecciated, min. lineation at 30-45 to core axis

- after 4 m.increased py content from 10-30% in places, darker siliceous matrix smokey qtz.veins ; diss. py in brecciated / fractures at all angles to core and in flow bands at 0-15 to core axis

8.0 - 51.0 m: Mafic Metavolcanic Flow- basalt-

after 8 m. increased mafic content with carb. fracture filling + qtz.veins then after 9 m. increased py content + flows especially 11-12m.with alt. bands+ silicification /bleached/altered boundaries with chlorite-rich+ dk. mafics+ py at 30 - 40 to c.a.

- after 13.0 m. diss.py in lenses /fractures; alt. at 16m.; incr. disseminated pyrite after 16m to 19 m.

- 19.0-20.0 m. diss. py in alt. along fractures then after 20 m. increased mafics with less alteration- bleaching along contacts/fractures, slight tuffaceous look/brecciated with minor diss. py

- after 24.0 m. finer grained, dark, chloritic with incr. amphibole+ carb. fract. filling

and carb.in tuffaceous flow banding- brecc. in places (ie: 26.5 m. ; 30.2-30.5m)

- from 34.5-35.5- increased diss. py in lenses /bands + in carb. fractures; gen. lln. at 15 to core axis

- from 36.0-37.0 m. - some alteration in mafic volcanics

- stringers and lenses w. diss.py,bleaching along fractures

- from 42.0-45.0 m.- Increased shearing+ brecciation /alt. and carb. filling of fractures; diss. py in blebs

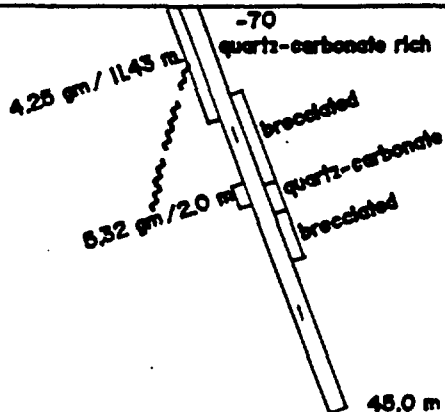
/lenses + qtz. veins at 15-45 to core axis; dk. chlorite in shears

- after 47.0m. increased amygdaloidal mafic volcanics, homogeneous and odd bleb of py ; amyg. up to 1 cm. diameter

- 51.0 m.: END OF HOLE in mafic Volcanics

NORTH

SOUTH



LEGEND

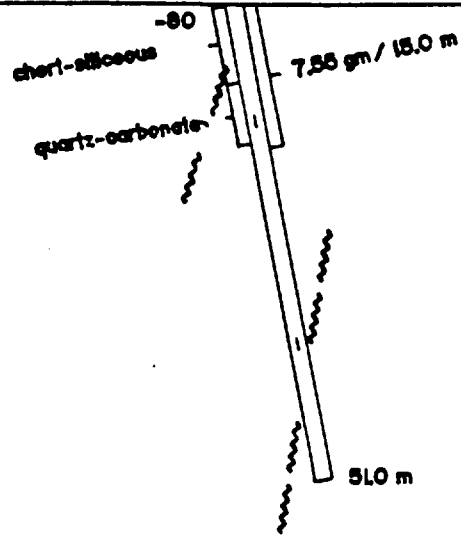
- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW (gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 96-1



NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 96-2



1200157 Ontario Inc.

DRILLHOLE # 96-3

Markes-Wawa Property

Claim # 1174694

Coordinates- Easting- L71+00W

 Northing- 0+55 S

Date Started- Nov.13, 1996

Date Finished- Nov. 13, 1996

Dip- -80

Azimuth- 180 degrees

Logged by- John C. Archibald, B.Sc.Geologist

BQ Size core- drilled by Colbert Diamond Drilling Ltd.

0.0 - 3.7m.: Casing - No core recovery

3.7-4.0m. : Mafic Metavolcanic Flow- basalt - chloritic, dark, homogeneous with lot carb.fracture filling; lineated /sheared at 45 to core axis/contact sharp w. QFP

4.0-4.4m. : Qtz.Felspar Porphyry -siliceous, sharp upper contact w. qtz. eyes, odd chlorite /tourmaline fracture filling

**14.8 -35.8 m.: Flow banded, Sheared Mafic Volcanic Flow, chlorite-rich with contacts, fractures bleached
- from 14.2-14.8: lot qtz. carb. veining /fracture filling /banded with diss. lenses/blebs of py all through core-contact up to 50% py-po; banding at 45-60 to core axis
- from 14.8-15.3 footwall of volcanics is sheared/banded,bleached with odd speck diss.py (>1% py)**

- after 15.3 m. more even grade, homogeneous volcanics with lot carb. fracture filling/banding at 45 to core axis

- after 30.m incr.fracturing /carb.filling, more tuffaceous looking, odd speck py diss. in bands/shearing at 30-45 to core axis

**32.4-35.8 Hanging wall of Quartz-Feldspar Porphyry unit is siliceous, lot qtz./carb. veining at 45 to c.a., sericitic, diss. py in carb. ankeritic veins-qtz. un. generally poorly mineralized from 33-35.8 - odd speck chalcopryrite /up to 10% py in blebs./bands, lot carb. from 33-35.8 m., chlorite banding at 35-40 c.a.; incr. brecciation from 34-marblized, folded /contorted/sheared- less py (5%)
- at 35.8 m. qtz./ QFP contact is rusty, reddish /slightly alt./poorly min.; lineated at 45-60 to core axis**

35.8- 46.5 m : Qtz. Felspar Porphyry - pale to buff color- upto 1 cm. fels. phenocrysts, homogeneous, poorly min.,

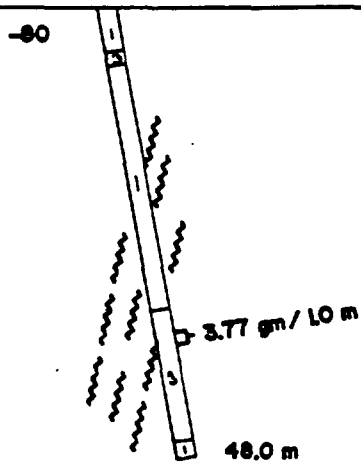
sericitized in places

46.5 -48.0 m: Mafic Metavolcanic Flow- basalt- carb.rich,
sheared, int. to basic volc. flows, chlorite rich, lineated
at 45 to core axis

- 48.0 -END OF HOLE - In Mafic Volcanics

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 96-3



1200157 Ontario Inc.

DRILLHOLE # 96-4

Markes-Wawa Property

Claim # 1174694

Coordinates- Easting- L43+00W

 Northing- 0+23 S

Date Started- Nov.13, 1996

Date Finished- Nov. 13, 1996

Dip- vertical

Logged by- John C. Archibald, B.Sc.Geologist

BQ Size core- drilled by Colbert Diamond Drilling Ltd.

0 - 0.55 m - CASING - No core recovered

**0.55 - 3.0 m. - Intermediate to Mafic Metavolcanic Flow,
Altered,bleached very fine grained cherty mudstone
consistency, chloritic with lot brecciation, broken
/fractured w.carb./qtz.filling; poorly mineralized; slight
lineation at 30-40 to core axis**

3.0 m. - 27.0 m. - Quartz-Felspar Porphyry -

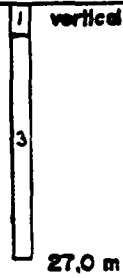
**Poor contact / broken fractured to brecciated QFP
poorly mineralized; grey to buff colored, phenocrysts up
to 1 cm.,**

**massive, homogeneous, qtz-rich with glassy texture
- from 21.5-22.5; broken, alteration in 1-2" bands, rusty
ankeritic along fractures @ 90 to core axis + 4" qtz.
vein 21.8-22.0 m.**

- 27.0 m. - END OF HOLE in Q.F.P.

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 96-4



1200157 Ontario Inc.
DRILLHOLE # 97-1
Markes-Wawa Property
Claim #

Coordinates- Easting- 80-00 West
 northing- 15+00 South
 36.0 meters north of surface zone

Date Started- Jan. 18, 1997

Date Finished- Jan. 19, 1997

Dip- -71.5 (-76 degrees @ 150.0 m)

Azimuth- 188 degrees

Logged by- Frederick T. Archibald, B.Sc.Geologist

0-2.80 m.- Casing- bedrock set-up

2.80- 40.00- **Mafic Metavolcanic Flow - (basalt)-**

dark grey-green colour, slightly chloritic, fine grained, massive, slight banding @ 55 & 60 degrees to core axis

2.80-3.70- fractured rock

3.90-9.10- massive, fine grained

@ 7.90- 1/4" sugary texture, white Quartz @ 55 degrees to core axis, barren of sulphides

@ 8.05- 3/4" sugary textured, white Quartz @ 55 degrees to core axis, barren of sulphides

9.10-14.0- slight crenulated siliceous fracturing (parallel to 50 degrees to ore axis) with slip fractures generally @ 20 to 40 degrees to core axis, localized sections with -1/4% pyrite (disseminated, silica replacement, fine grained pyrite (cube & rounded))

14.0- 15.70- massive, fine grained

15.70- 18.20- slight alteration with increase in chlorite content, slight bleaching in localized sections, odd section with silica fracture-filling

16.0-16.10- brecciated, speckled appearance (coarser grained), low disseminated magnetite

- 17.80-17.90- brecciated, speckled appearance (coarser grained), low magnetite
- 18.20-22.30- increase in mafics, decrease in chlorite content, dark grey-black colour, fine grained
- 22.30- 24.80- massive with increasing alteration and silicification at depth, some silica rich seams (crenulated) @ 50 to 60 degrees to core axis, some brecciated sections
- @ 22.50- 2" Quartz seam- grey/white, sugary textured, -1/4% pyrite-pyrrhotite with minor chalcopyrite
- @ 22.70- 4" Quartz seam- grey/white, sugary textured, - 1/4% pyrite-pyrrhotite with minor chalcopyrite content
- 24.80-27.25- massive
- 27.25-27.35- silica rich, slightly bleached, banded @ 60 degrees to core axis, grey/white silica
- 27.35-30.85- massive, fine grained
- 30.85- 32.0- silica rich banding @ 40 degrees to core axis, localized sections with grey/white silica with -1/4% pyrite-pyrrhotite with minor chalcopyrite
- 31.70-32.0- 30 to 50% silica content
- 32.0-34.10- massive, fine grained
- 34.10-36.30- coarser grained, localized speckled appearance, dark grey colour, decrease in chlorite content, increase in epidote content
- 34.10-34.57- 50 to 60% silica content, -1/4% pyrite/pyrrhotite content (seam & disseminated)
- @ 34.80- 2" Quartz seam @ 70 degrees to core axis, white with grey quartz & mineralized contacts (pyrite-pyrrhotite with possible cloud VG)
- 38.30-38.35- Quartz seam @ 80 degrees to core axis, barren-white quartz
- 38.50-40.0- increase in bleaching and alteration

39.50-40.0- 5-6% pyrrhotite/pyrite with minor chalcopyrite in bands @ 40 degrees to core axis

40.0-52.25- Quartz- Feldspar Porphyry Intrusive-

buff colour, fine grained with ave. 1mm phenocrysts (up to 3 mm diameter), slight chlorite-sericite rich along contacts, average 2-5% phenocrysts.

44.30-44.50- Quartz seam @ 80 degrees to core axis, barren of sulphides, white colour

@ 49.70- 1" Quartz seam @ 45 degrees to core axis

@ 51.20- 1" seam @ 45 degrees to core axis

52.25-53.40- Mafic Metavolcanic Flow- (basalt)-

black colour, fine grained, massive, contacts @ 50 degrees to core axis

53.40-55.55- Altered Feldspar Porphyry-

buff-green colour, sericite rich, fine grained

55.55-56.05- Mafic Metavolcanic Flow- basalt- slightly altered

56.05-57.75- Altered Feldspar Porphyry Intrusive-

slight sericite content, buff colour, fine grained

57.75-71.80- Mafic Metavolcanic Flow- (basalt)- altered

black colour, fine grained, banded @ 55 degrees to core axis

57.75-67.70- SHEAR ZONE- generally -1/2% pyrite-pyrrhotite, slight banding @ 40 to 45 degrees to core axis

71.80-73.80- Mafic Metavolcanic Flow- basalt-

massive, fine grained, black colour

73.80-84.0- Felsic Metavolcanic Flow- tuff-

light grey colour, fine grained, slightly altered / bleached, generally - 1/4% localized pyrite, sericite content decreases with depth

73.80-74.30- 3 to 5% pyrite-pyrrhotite content, crenulated banding, brecciated, grey/white & sugary textured quartz, pervasive carbonate (rhombs)

75.0-76.05- banded @ 55 degrees to core axis with chert rich seams,

-1/2% pyrite-pyrrhotite (seams & disseminated)

73.80-77.65- altered- slightly bleached, slight sericite content

82.85-83.45- localized sections with up to 1/2% pyrite content

84.0-95.45- Felsic Metavolcanic Flow- tuff-

massive and finer grained with increase in mafic content,

90.20-93.0- pervasive carbonate rhombs

95.45-111.0- Quartz-Feldspar Porphyry Intrusive-

buff to grey colour, euhedral phenocrysts (dark grey in lighter matrix) to

1 mm to 3 m diameter, low blue quartz eye phenocryst

@ 95.45- 3/4" Quartz seam @ 70 degrees to core axis, barren of sulphides, white colour

@ 95.90- sand seam

@ 111.0- contact sharp @ 70 degrees to core axis

111.0- 132.30- Mafic Metavolcanic Flow (basalt)-

111.0-112.7- massive, odd speck pyrite, low chlorite content (decreasing with depth)

112.7-115.5- slightly coarser and speckled in sections, porphyritic texture, slightly bleached, odd speck pyrite

@ 115.4- 2" Quartz seam @ 55 degrees to core axis, barren of sulphides

@ 118.0- 1" Quartz seam @ 55 degrees to core axis, barren of sulphides

115.5-131.6- slight porphyritic texture (phenocrysts elongated @ 55 to 60 degrees to core axis)

124.6-131.60- finer grained, increasing mafic content, slightly chloritic. massive to slight banding, dark grey to black colour

131.60-132.3- 1.0 to 2.5% fine disseminated pyrite

132.30-145.2- Mafic Metavolcanic Flow- (basalt)-

fine grained, dark grey colour, massive

133.75-142.75- increase in silica rich fracturing @ 10 to 40 degrees to core axis, slight banding @ 55 degrees to core axis

@ 138.20- 1" Quartz seam (crenulated) with tourmaline rich contacts,
odd speck chalcopyrite

142.75-145.20 - slight banding @ 55 degrees to core axis

145.20-146.95- **Quartz-Feldspar Porphyry Intrusive-**

grey colour, slightly altered, banded @ 40 degrees to core axis, sharp
contacts @ 40 degrees to core axis, slightly sericite-rich contacts,
low disseminated pyrite (-1/4% content)

146.95-150.0- **Mafic Metavolcanic Flow- basalt-**

massive, fine grained, dark grey colour

148.0-148.95- highly altered & silicified, up to 1/2% disseminated
pyrite in localized sections

150.0- End of Hole

NORTH

SOUTH

-72 (76)

siliceous

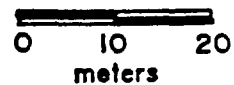
0.71 gm / 2.5 m

150.0 m

LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW (gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
 SECTION
 MARKES-PELE PROJECT
 DDH DRILLHOLE 97-1



1200157 Ontario Inc.
DRILLHOLE 97-2
Markes-Wawa Property
Claim #-

Coordinates- 36 meters north of surface showing

Easting- 80+00 West

Northing- 15+00 South

Date Started- January 19, 1997

Date Finished- January 19, 1997

Dip- -81.5 degrees (-80.5 degrees @ 111.0 m)

Azimuth- 188 degrees

Logged by- Frederick T. Archibald, B.Sc.Geologist

0-2.60- Casing (bedrock set-up)

2.60-47.0- **Mafic Metavolcanic Flow-(basalt)-**

dark green colour, fine grained, massive with slight fracturing @ 40 and 60 degrees to core axis, moderately chloritic, odd pyrite seam

2.60-22.76- massive

22.76-28.00- slight alteration

22.78-23.15- 1-2% pyrite in silica (grey-white, sugary textured)

23.40-25.50- increase in localized silica fractures @ 30 & 50 degrees to core axis

28.00-40.60- medium green colour, becoming bleached & altered, massive with localized banding @ 30 degrees to core axis, pyrrhotite/pyrite with minor chalcopyrite (replacement) content increasing with depth

28.80-28.95- silica rich bands @ 25 degrees to core axis

32.20-33.25- up to 1/4% disseminated pyrite-pyrrhotite

37.60-38.10- silica banding @ 40 degrees to core axis with pyrrhotite-tourmaline-minor chalcopyrite rich seams and up to 5 to 7% sulphide content, bleached contacts, grey/white quartz rich contacts with possible VG

39.91-40.20- Quartz bands @ 25 degrees to core axis with 1/2% pyrrhotite (blebs)

40.60-46.13- more massive with alteration decreasing with depth

46.13-47.0- increase in bleaching/alteration, banding @ 30 to 35 degrees to core axis

46.95-47.0- 2-3% pyrite-pyrrhotite-minor chalcopyrite in bands @ 35 degrees to core axis, carbonate rich seams

47.0-65.35- **Quartz Feldspar Porphyry Intrusive-**

buff with slight green (chlorite-sericite) colour, fine-medium grained,

- phenocrysts ave. , 1-2 mm. diameter, slight sericite at contacts
- 47.0-47.45- -1% pyrite-pyrrhotite with minor chalcopyrite, silica rich banding @ 35 degrees to core axis
- @ 53.90- 2" Quartz seam @ 85 degrees to core axis (coarse grained, white colour, barren of sulphides)
- @ 59.28- 2" Quartz seam @ 85 degrees to core axis (coarse grained, white colour, barren of sulphides)
- 65.05-65.70- increase in silica banding @ 20 degrees to core axis, 1/2 to 1% disseminated pyrite content
- 65.70-66.10- 1-3% banded pyrite-pyrrhotite bands @ 15 to 20 degrees to core axis
- 65.35-70.80- Mafic Metavolcanic Flow-(basalt)-**
fine grained, massive, dark grey colour
- 69.0-70.80- increase in mafic content
- 70.38-70.80- 1-2% disseminated pyrite in silica rich fractures
- 70.80-74.59- Quartz-Feldspar Porphyry Intrusive-**
highly sericitic, buff coloured contacts with light grey matrix
- 70.80-72.35- slightly siliceous with odd speck pyrite, buff colour
- 72.35-73.20- massive, unmineralized, light grey colour
- 73.20-75.67- Quartz Vein- siliceous rich banding @ 35-40 degrees to core axis, -1/2% disseminated pyrite, grey-white quartz content
- 74.59-88.75- Mafic Metavolcanic Flow- basalt-**
dark grey colour, fine grained, massive to slightly banded
- 74.59-75.67- silica rich banding @ 25 to 30 degrees to core axis, - 1/4% disseminated pyrite content
- 75.67-76.50- massive with -1/4% pyrite content (disseminated)
- 76.50-79.0- SHEAR Zone- increase in silica banding @ 20 degrees to core axis with silica/brecciated bands
- 76.50-77.50- fine disseminated pyrite (-1/4% content)
- 77.50-78.50- -1/2% pyrite-pyrrhotite content
- 78.50-79.0- -2% pyrite-pyrrhotite (crenulated bands), low chlorite content
- 79.0-86.56- massive with up to -1/4% pyrite in localized sections
- 86.56-88.75- SHEAR Zone** silica rich with up to 15-10% sulphides (pyrite-pyrrhotite-chalcopyrite (net-textured)) in bands @ 50 degrees to core axis, sugary textured silica
- 86.56-86.91- Quartz seam- grey-white silica with 1/2% to 1% pyrite content
- 86.91-87.10- 15 to 20% pyrite-pyrrhotite-chalcopyrite content
- 87.10-87.60- bleached, -1% disseminated pyrite-pyrrhotite
- 87.60-88.75- sulphide rich bands @ 35 degrees to core axis,

pyrite-chalcopyrite-pyrrhotite sulphides, carbonate rich seams

88.75-94.55- **Felsic-Intermediate Metavolcanic Flow-**

light grey colour, fine grained, massive, up to 1/2% disseminated pyrite in sections (amounts decrease with depth)

88.75-89.63- bleached

94.55-106.50- **Intermediate - Mafic Metavolcanic Flow-**

medium grey colour, fine grained, massive, odd chlorite rich fracture, odd speck pyrite

98.00-98.60- blocky-fractured rock

103.0-106.50- carbonate rich

@ 105.50- pyrite rich seam paralleling core axis

106.18-106.50- bleached

106.50-111.0- **Quartz-Feldspar Porphyry Intrusive-**

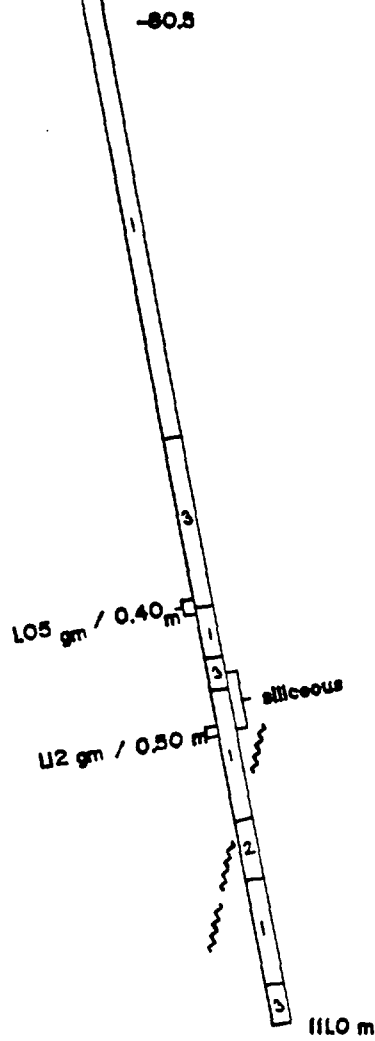
buff colour, slight alignment of phenocrysts at 60 degrees to core axis, phenocrysts average 1-2 mm diameter

106.50-109.0- slight sericite content

111.0- End of Hole

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-2



1200157 Ontario Inc.
DRILLHOLE 97-3
Markes-Wawa Property
Claim #-

Coordinates- 108.4 meters north of surface showing

Easting- 60+00 West

Northing- 58+00 North

Date Started- January 19, 1997

Date Finished- January 20, 1997

Dip- -45 degrees (-50 degrees @ 120 m)

Azimuth- 188 degrees

Logged by- Frederick T. Archibald, B.Sc. Geologist

0-5.0 m Casing- clay & sand

5.0-6.10- **Mafic Metavolcanic Flow- basalt-**

dark green colour (moderately chloritic), massive, fine grained

5.0-6.10- localized sections with pervasive carbonate

5.0-6.10- siliceous fracturing @ 60 degrees to core axis

6.10-54.95- **Coarse Grained Flow- (gabbroic)-**

6.10-12.0- gradational change, coarse grained, medium green colour, dioritic texture / appearance

12.0-13.95- altered and finer grained, some brecciated seams (ie- 12.70, 13.0), some sections with up to -1/4% pyrite (dissem)

13.95-54.95- speckled appearance, coarser grained, pervasive carbonate rhombs, chlorite rich, dark green colour, epidote rich, blue-quartz eyes in sections, odd silica fracture @ 20 to 70 degrees to core axis, odd pyrite seam @ 30 degrees to core axis

19.0-19.75- some siliceous fracturing, -1% disseminated pyrite content

25.0-25.5- epidote rich

27.25-27.53- epidote rich

29.70- 2" silica / pyrite seam @ 70 degrees to core axis

@ 31.60- 3" mafic dyke @ 55 degrees to core axis

33.60-33.75- -1% disseminated pyrite cube

35.0-36.20- some siliceous fracturing @ 60 degrees to core axis

48.80-55.0- increase in silica fracturing (1/8 to 1/4" thickness),
increase in magnetite content (disseminated, +-5%)
finer grained matrix, chlorite rich

54.95-70.81- Quartz-Feldspar Porphyry Intrusive-

buff to green colour, medium grained, sharp contacts @ 45 degrees to core axis

55.30-55.50- mafic metavolcanic flow dyke

58.10-60.90- chlorite rich fractures @ 50 degrees to core axis

60.10-60.42- Quartz Vein @ 40 degrees to core axis, coarse - white colour, odd speck pyrite- pyrrhotite- chalcopyrite

62.20-62.35- sericite-pyrite rich seams

64.0-64.10- slight silica-pyrite seam

64.10-70.81- slightly bleached, decrease in chlorite content

64.50-69.30- increase in chlorite alteration

65.15-65.71- Quartz Vein @ 50 degrees to ore axis (sharp contact), barren- white quartz- coarse

67.50-67.84- Quartz Vein @ 50 degrees to core axis, sharp contacts, barren- white quartz

@ 68.95- 2" Quartz seam with contacts @ 40 degrees to core axis

70.81-81.00- Mafic Metavolcanic Flow-(basalt)-

70.81-73.98- dark green colour, massive to slight siliceous fracturing

73.98-81.0- slightly bleached

73.98-74.18- silica-chert rich fractures @ 45 degrees to core axis, -1% pyrite-pyrrhotite-chalcopyrite content

76.80-81.00- slight banding @ 65 degrees to core axis (increasing with depth)

79.55-80.38- silica rich seams with disseminated pyrite-

pyrrhotite-chalcopyrite (-1/2% sulphides)

81.00-84.00- **Felsic - Intermediate Metavolcanic Flow- (tuff)-**

altered, bleached, medium grained

83.0-83.90- **SHEARED-** with up to 10% sulphides in bands

83.0-83.42- -1% pyrite-pyrrhotite content

83.42-83.90- 2-10% pyrite-pyrrhotite-chalcopyrite with

tourmaline rich seams, banded @ 65 degrees to core axis

@ 87.2- 1" **Quartz** seam @ 45 degrees to core axis (barren- white colour)

84.00-92.08- **Interm.- Mafic Metavolcanic Flow- (andesite-basalt)-**

dark grey colour, massive, fine grained

90.14-90.28- silica rich with odd speck pyrite-pyrrhotite

92.08- 105.91- **Quartz-Feldspar Porphyry Intrusive-**

buff-green colour, slightly sercitic, +-5% phenocrysts (anhedral to sub-euhedral, 1-4 mm diameter)

92.08-92.41- silica rich with 1/2% to 1% disseminated pyrite-pyrrhotite-chalcopyrite, carbonate rich, lower contact banded @

85 degrees to core axis, upper contact grey-white quartz

92.41-93.20- some chlorite rich fracturing (decreasing content with depth)

93.20-103.0- massive and equigranular

103.0-105.91- sercitic content increasing with depth

105.91-110.0- **Intermediate - Mafic Metavolcanic Flow-(basalt)-**

medium grey colour, fine grained, slight silica fracturing @ 40 degrees & parallel to core axis

105.91-107.30- mineralized, **Sheared** & banded @ 55 to 60 degrees to core axis, chlorite rich bands, slightly chloritic

110.0-111.15- **Quartz-Feldspar Porphyry Intrusive-**

Sheared, chlorite and tourmaline rich bands

111.15-120.0- **Felsic-Intermediate Metavolcanic Flow-**

111.15-111.67- brecciated/crenulated/ siliceous rich, pyrite-pyrrhotite-chalcopyrite rich bands @ 50 to 55 degrees to core axis

111.67-112.22- bleached with 5-10% seams pyrite-pyrrhotite

112.22-112.55- bleached / altered

@113.8- 2" seam pyrite-pyrrhotite (silica replacement)

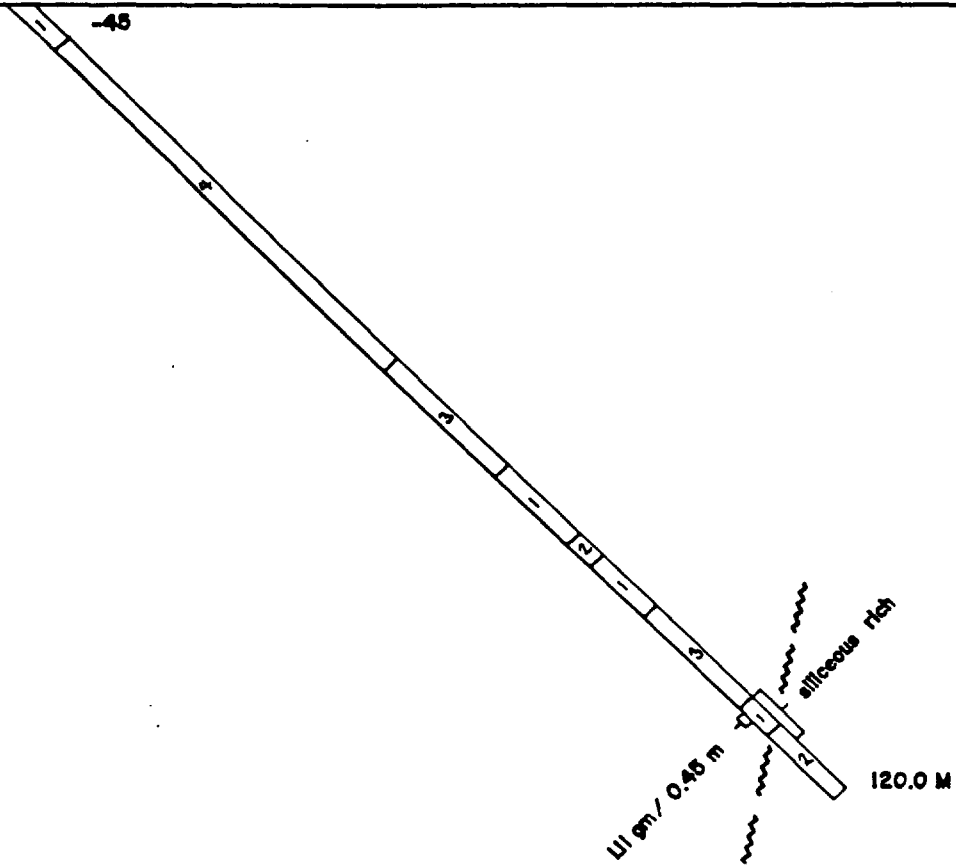
@ 116.72- 2" Lamprophyre Dyke @ 50 degrees to core axis

118.85-119.55- -1/2% disseminated pyrite-pyrrhotite, bleached

120.0- End of Hole

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-3



1200157 Ontario Inc.
DRILLHOLE 97-4
Markes-Wawa Property
Claim #-

Coordinates- 109.0 meters north of surface showing
Easting- 60+00 West
Northing- 58+00 North

Date Started- January 20, 1997

Date Finished- January 21, 1997

Dip- -69 degrees (-68.5 degrees @ 120 m)

Azimuth- 188 degrees

Logged by- Frederick T. Archibald, B.Sc.Geologist

0-5.60 m. - Casing

5.60-9.35- **Altered Quartz Feldspar Porphyry-**

dark grey colour, medium grained, equigranular, phenocrysts to 2-3mm diameter

@ 9.35- contact @ 35 degrees to core axis (banded)

9.35-12.00- **Mafic Metavolcanic Flow- basalt-**

dark grey-black colour, gradational to coarse grained at depth

12.00-30.25- **Coarse Grained Flow-(Gabbro)-**

dark grey-green colour, medium grained, speckled appearance, dioritic texture, epidote-chlorite rich matrix, pervasive carbonate rhombs, moderate to highly chloritic

20.00-20.20- feldspathic rich seams @ 10 degrees to core axis

24.0-24.20- siliceous seams with disseminated pyrite (1.0 to 1.5% content) @ 20 degrees to core axis

25.50-27.0- increase in felsic content

30.25-33.70- **Mafic Metavolcanic Flow- (basalt)-**

fine grained, contacts @ 20 and 60 degrees (upper and lower respectively), pyrite rich contacts

33.70-49.0- **Coarse Grained Flow- Gabbro-**

silica fracturing @ 10 to 70 degrees to core axis, odd localized pyrite rich seam (ie- 39.30)

43.10-43.32- siliceous with low pyrite (-1/2% content)

43.60-44.10- siliceous with low pyrite (-1/2% content)

49.0-53.20- **Mafic Metavolcanic Flow- basalt-**

dark green colour, fine grained, massive, siliceous rich sections @ 49.0, 50.47-50.75

51.50-51.57- **Quartz Vein** @ 40 to 60 degrees to core axis with tourmaline rich contacts

53.30-67.00- **Coarse Grained Flow-Gabbro-**

fine to medium grained, speckled appearance, dark grey-green colour, blue quartz eyes in matrix,

67.00-86.9m Mafic Metavolcanic Flow- Basalt-

d.greenish, chloritic, fine grained, weakly foliated to 50d to C.A., variably cut by qtz-calcite veinlets, non-carb'd, trace py-po as blebs and finer dissem.

@81.93-82.1; discrete shear at 40d to C.A.

86.9-99.08m FELSIC INTRUSIVE - Quartz Porphyry

pale greenish-grey, massive to weakly foliated/bedded, 2-4mm quartz fragments set in silica-sericite matrix, rare calcite veinlets, 1.2% fine dissem. py

@91.26-92.62; three sets of grey qtz veining, trace py-po and tourmaline

@95.96-96.08; qtz vein, trace tourm., no visible min, chloritic partings.

@98.0-99.06; SHEARED strongly at 40d to C.A., with translucent grey qtz vein at 99.0m, 5% po

99.09-112.20 MAFIC METAVOLCANICS - MgBasalt flow

d.blackish green, chloritic, f.-med.grained, weakly foliated at 35-45d to C.A., some translucent grey qtz veinlets, minor po blebs, variable qtz-calcite veinlets, moderately carb'd matrix

@104.93-104.96; white qtz vein at 30d to C.A., no vis.min., again at 106.24

@108.34-112.20; series of white qtz veins and local flooding, all at 80-90d to C.A., SHEARED strongly commencing at 111.74m, 1-3% fine py dissem.along vein contacts

112.20-132.07m FELSIC INTRUSIVE - Quartz Porphyry

pale greenish-l.grey, 2-5mm qtz eyes set in aphanitic silica-sericite matrix, weakly foliated at 45d to C.A., numerous qtz-calcite veinlets at 0-20d to C.A., trace fine py, trace tourmaline along veinlets

@117.89-117.97; white qtz vein, no visible min.

@121.46; qtz eyes become very coarse grained, still matrix supported, becomes pinkish due to either weak hematization or carb'd with ankerite, some minor v.fine dissem. py, tourmaline in hairline veinlets

@131.87-132.07; qtz vein with SHEARED and brecciated

contacts, structured at 40d to C.A., chlorite,
tourmaline and magnetite concentrated along vein
contacts, <1% fine dissem. py

132.07-152.66m MAFIC METAVOLCANICS - MgBasalt
blackish d.green, chloritic and mod.soft, f.grained,
weakly foliated, cut variably by qtz-calcite veinlets

@135.05-140.07; fine euh.py peppered in matrix

152.66-168.50m FELSIC INTRUSIVE - quartz porphyry
pale greenish buff qtz porphyry as described above
at 112.20-132.07m, non-sheared

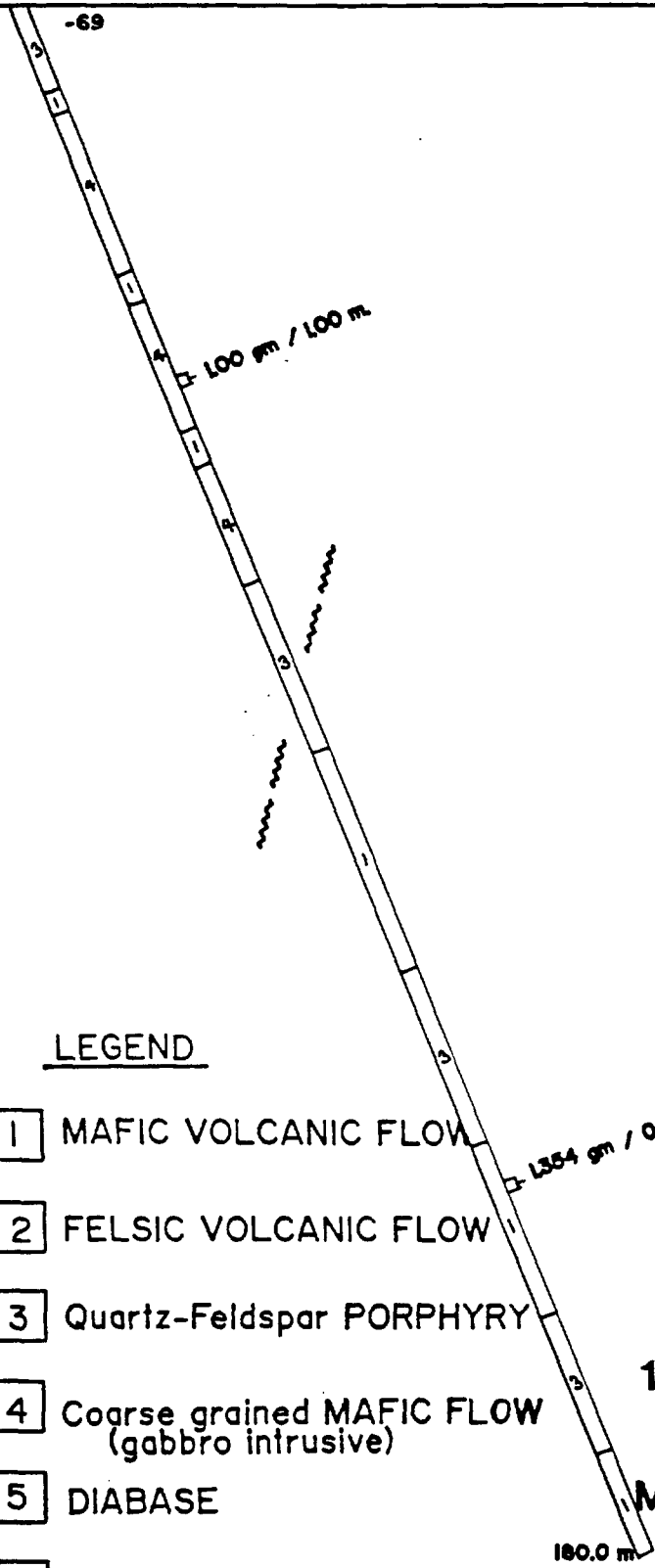
@167.35-168.50; late grey qtz veinlets, 2% fine dissem py
along vein contacts, at 45-50d to C.A.

168.5-180.0m MAFIC METAVOLCANICS - MgBasalt flows
d.greenish greyish, f.-med.grained, mod.-strongly
foliated, chloritic, few horizons of calcitic ash tuff,
calcite amygdaloidal, highly carb'd matrix, trace po-py

E.O.H. 180m

NORTH

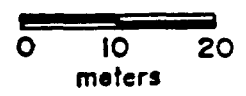
SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-4



DIAMOND DRILLHOLE LOG: W97-05
1200157 Ontario Inc. - Esso/Markes Project
Claim # 1174694
Co-ordinates: North Grid L005WEST 234NORTH
Azimuth: 194
Dip: -45 (-38 @ 102m)
Date Started: Jan.21/97
Date Finished: Jan.22/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 102m

0-4.22m casing

4.22-35.3m MAFIC METAVOLCANICS - MgBasalt flows
d.greenish, f-med.grained, massive to weakly foliated,
flow banded at 60d to C.A., variable qtz-carb veinlets,
repetitive sequences of chloritic basalts flow and
narrow microfractured, siliceous bands and calcite
amygdules (pillowed lava selvages??) with minor random
py-po blebbing, mod.well carb'd

@20.1-35.3; moderately sheared

35.3-44.39m FELSIC INTRUSIVE - Quartz feldspar porphyry
qtz and plagio phenos, euhed-broken, set in an
aphanitic silica-sericitic matrix, few calcite
veinlets, weakly foliated at 60d to C.A., variable qtz
veinlets with minor carbonates, trace py-po

@43.72-44.39; mod. sheared and silicified, some py blebs

44.39-61.35m MAFIC METAVOLCANICS - MgBasalt

@44.39-44.77; SHEARED, white qtz veined and locally vein
brecciated, vuggy in places, several massive sulphide
laminae

@44.77-45.27; INTENSELY SHEARED; with 5-10% fine dissem py
@45.27-59.0; NONSHEARED, d.greenish, f-med.grained, massive
to weakly foliated at 60d to C.A., mod.carb'd, trace py

@59.0-61.35; INTENSELY SHEARED-mylonite at 60d to C.A., late
grey qtz veinlets xcut structural fabric,

@61.0-61.35; 5-7% fine dissem py with grey qtz veining

61.35-72.31m FELSIC-INTERMEDIATE INTRUSIVE
greyish, weakly foliated at 60-70d to C.A., 2-3mm qtz
eyes set in aphanitic sericite-muscovite matrix, minor

chloritic partings, cut by some barren qtz veinlets

@69.3-70.38; brecciated matrix with qtz flooding, trace py
@70.38-72.31; white qtz vein and brecciation, no visible min

72.31-102.0m MAFIC METAVOLCANICS - MgBasalt

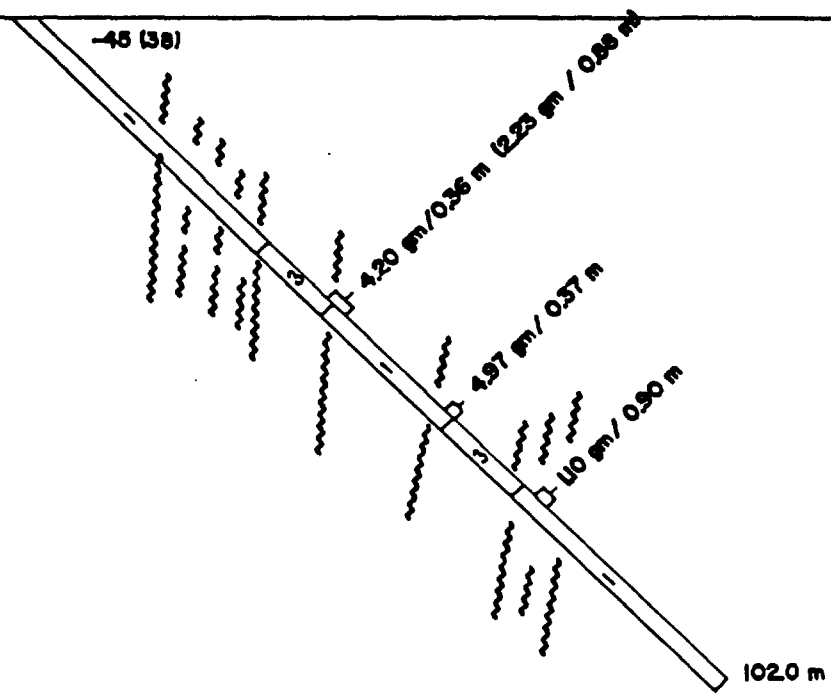
@72.31-80.49; f.grained, INTENSELY SHEARED chlorite schist,
qtz veined and brecciated with up to 1-50% py along
discrete shear planes, trace py

@80.49-102.0; d.greyish green, v.f.grained, chloritic, soft
and well carb'd, mod.sheared to 91m, then diminishing
@96.0-98.13; matrix cut by several grey qtz veinlets with
1-10% fine py locally

E.O.H. 102m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-5



DIAMOND DRILLHOLE LOG: W97-06
1200157 Ontario Inc. - Esso/Markes Project
Claim # 1174694
Co-ordinates: North Grid L005WEST 234NORTH
Azimuth: 194
Dip: -70 (-63 @ 120m)
Date Started: Jan.22/97
Date Finished: Jan.23/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 136m

0-3.38m casing

3.38-52.7m MAFIC METAVOLCANICS - MgBasalt flows
d.greenish, v.f.-med.grained with repeating f.grained
siliceous bands (pillow lava selvages?), weakly carb'd,
massive to weakly foliated at 60d to C.A., few
qtz-calcite veinlets, some small bands of 10-20% po,
minor py blebs

@42; matrix grows blackish green with magnetite increase in
enriched horizons

@51-52.7; weak shearing

52.7-56.3m FELSIC INTRUSIVE - Quartz-felspar Porphyry
pale buff-grey, coarse qtz and plagio eyes within
aphanitic siliceous sericitic matrix, mod.foliated at
45d to C.A., <3% mafics

@54.96-55.22; white qtz veining, minor py on contacts

@55.77-56.64; qtz with 1-5% dissem py euhedra peppering,
STRONGLY SHEARED (narrow) lower contact at 55d to C.A.

56.3-78.94m MAFIC METAVOLCANICS - MgBasalt
d.blackish greenish, v.f.-med.grained, massive to well
foliated, some qtz-calcite hairline veinlets, weakly
carb'd, trace py-po

@72.30-78.94; INTENSELY SHEARED, grey qtz veining, wallrock
brecciation and qtz flooding, Mg-carbonate rich shear
laminae; @77.62, 30cm qtz vein with 15% py-po along
contacts

78.94-86.47m FELSIC INTRUSIVE - quartz-feldspar porphyry
as described above at 52.7-56.3m, no visible min.

86.47-108.0 MAFIC METAVOLCANICS - MgBasalt

@86.47-93.0; STRONGLY SHEARED mafic schist, well carb'd, grey qtz veinlets xcutting shear planes and conformable qtz-carb veinlets, 10-15% blebby po-py along shear

@89.0-89.2; translucent qtz vein with 5-10% fine dissemin py

@93.0-105.18; contact to NONSHEARED MgBasalt, weakly foliated to 40d to C.A. with calcite amygdules, trace py-po

@105.18-108; STRONGLY SHEARED MgBasalt, some qtz veining

108.0-122.09m MAFIC METAVOLCANICS - MgBasalt

rapid gradation from above to nonsheared, d.blackish green, f.grained lapill tuff, weakly carb'd, weakly foliated, trace po-py, minor v.f.grained greyish ash tuff interbands

122.09-126.14m FELSIC INTRUSIVE - quartz porphyry grey, med-coarse grained eyes in siliceous matrix, as above in 52.7-56.3m, no veining, no visible min.

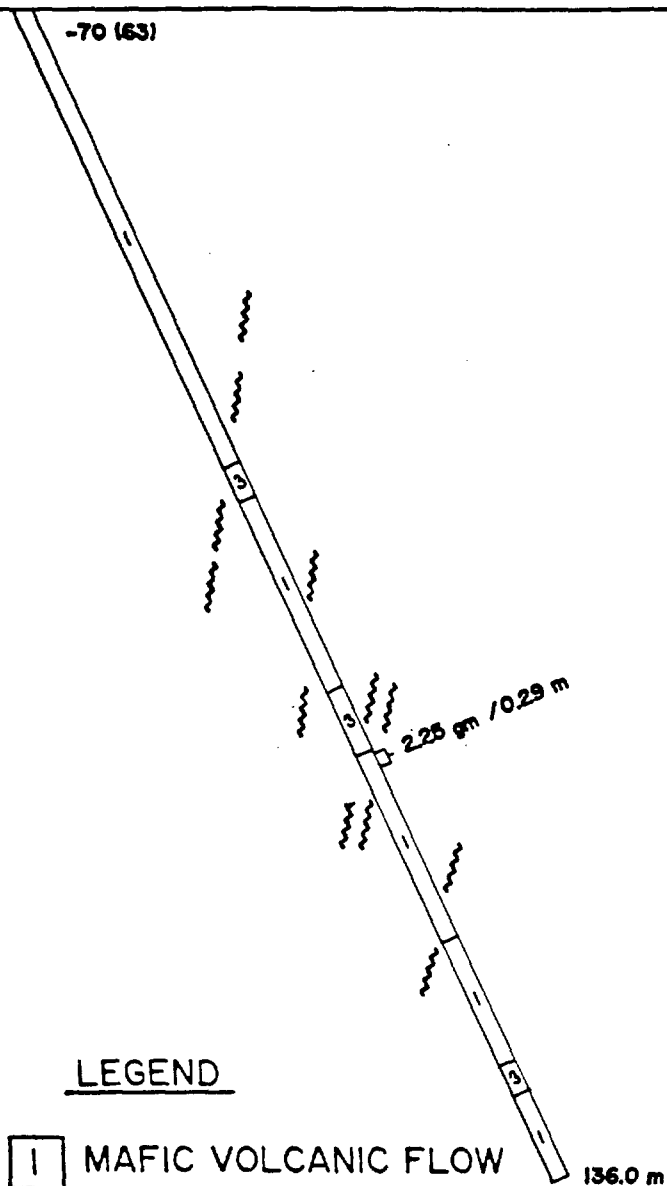
126.14-136.0m MAFIC METAVOLCANICS - MgBasalt

d.greenish, v.f.grained, as above 108.0-122.09, trace py-po

E.O.H. 136m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-6



DIAMOND DRILLHOLE LOG: W97-07
1200157 Ontario Inc. - Esso/Marques Project
Claim # 1174694
Co-ordinates: North Grid L025EAST 23INORTH
Azimuth: 194
Dip: -45 (-38 @ 102m)
Date Started: Jan.23/97
Date Finished: Jan.23/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 102m

0-7.5m casing

7.5-39.3m MAFIC METAVOLCANICS - MgBasalt flows
d.greenish, repetitive textural banding at 80d to C.A.,
v.f-f.-med.grained, weakly foliated to massive,
variably cut by qtz-calcite veinlets, trace py-po, ,
weakly carb'd

39.3-43.67m FELSIC INTRUSIVE - Quartz Porphyry
commences with 6cm white qtz vein-no visible min.,
weakly sheared at 60d to C.A., coarse quartz and minor
plagio phenos in sericite-siliceous matrix

@43.46; matrix becomes strongly SHEARED

43.67-60.70m MAFIC METAVOLCANICS - MgBasalt
d.blackish green, v.f.-med.grained, massive,
mod.carb'd, variably cut by qtz-calcite veinlets

@43.67-47.09; INTENSE SHEARING-grey qtz veins xcutting
sheared mafic matrix, local brecciation, shear
laminated bands of 50-100% py, magnetite-rich contacts

@49.1; shearing diminishes to weak-moderate, plain
f.-med.grained basalt flows

@58.64-60.70; strong shearing recommences, silicified of
matrix, grey quartz veined, mineralized alternating qtz
vein/20% fine py bands

60.70-70.48m FELSIC INTRUSIVE - quartz porphyry
massive, unsheared, buff-grey, coarse 2-7mm qtz
crystals in aphanitic silica matrix, no visible min.

@68.0; unit becomes SHEARED

@68.9-70.48; INTENSELY SHEARED at 75d to C.A., grey qtz
veined, qtz flooded and brecciated, fine py along
contacts and shear surfaces

70.48-102.0m MAFIC METAVOLCANICS - FeBasalt

@70.48-75.5; INTENSELY SHEARED at 75d to C.A., grey qtz veined and brecciated (veins at 70d to C.A., but diagonally xcut foliation angles), silica flooding of matrix, and up to 40% fine py at 70.71-72.1m

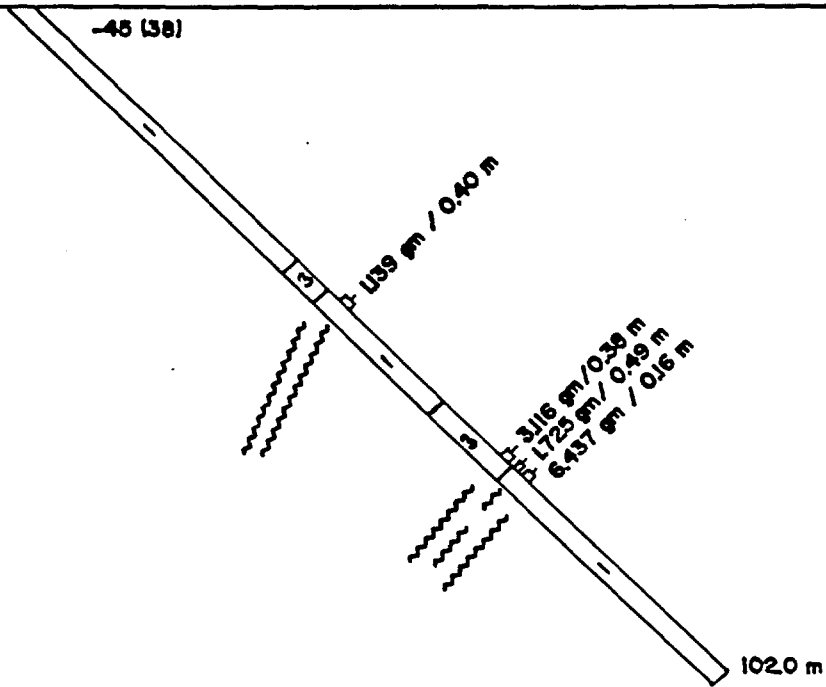
@75.5-102.0; shearing rapidly diminishes over 2-3m, then d.greyish black, v.f.grained flows to aphanitic tuffs in repetitive 30-40cm bands, variably cut by hairline qtz-calcite veinlets; weakly sheared again 93.5-95.80m, trace py-po

@98.8; 20cm white qtz vein and local brecciation, no visible min.

E.O.H. 102m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-7



DIAMOND DRILLHOLE LOG: W97-08
1200157 Ontario Inc. - Esso/Markes Project
Claim # 1174694
Co-ordinates: North Grid L025EAST 231 NORTH
Azimuth: 194
Dip: -70 (-65 @ 120m)
Date Started: Jan.23/97
Date Finished: Jan.24/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 120m

0-5.61m casing

5.61-59.13m MAFIC METAVOLCANICS - MgBasalt flows
d.greyish green, v.f.-med.grained, texturally banded,
to 65d to C.A., generally massive, some qtz-calcite
veining, weakly carb'd, trace py-po except as noted
below, some repetitive bandings with thin siliceous
horizons suggest pillowed lavas

@32.5; some calcite amygdaloidal layers commence

@54.0-57.7; weak to mod.shearing commences

@57.7-59.13; SHEAR ZONE-at 50d to C.A., many 1-3cm late grey
qtz veining with qtz flooding and peripheral
brecciation, trace sulphides

59.13-60.73m FELSIC INTRUSIVE - quartz porphyry
pale greenish grey, only weakly sheared to 40d to C.A.,
2-5mm qtz eyes in v.f.grained to aphanitic sericite-
siliceous matrix, <10% mafics, v.weakly carb'd, trace
only py-po

60.73-79.88m MAFIC METAVOLCANICS - MgBasalt
d.greenish-blackish, v.f.grained, weakly sheared to
45-50d to C.A., calcite amygdaloidal and well carb'd,
texturally banded in 20-30cm layers, 1-3% py locally,
otherwise trace

@77; conformable contact to strong shearing in matrix

@78.61-79.88; INTENSELY SHEARED, late grey qtz veining,
brecciation and qtz flooding of matrix, 50-80% fine py
along contacts, well carb'd

79.88-90.0m FELSIC INTRUSIVE - quartz porphyry
l.buff-grey, f.-c.grained, qtz and minor feldspar
phenos in glassy siliceous interstitial matrix, 3%
v.finely dissem py in matrix, trace chlorite partings

@89.1-90.0; white qtz veining, up to 40% fine py along contacts

90.0-120.0m MAFIC METAVOLCANICS - MgBasalt
d.emerald green, f-med.grained, weak to strongly foliated, weakly to strongly carb'd, fine calcite amygdules, variably cut by qtz-calcite

@97m; some qtz veining with local brecciation, minor fine py

@104.1-120.0; mod. sheared

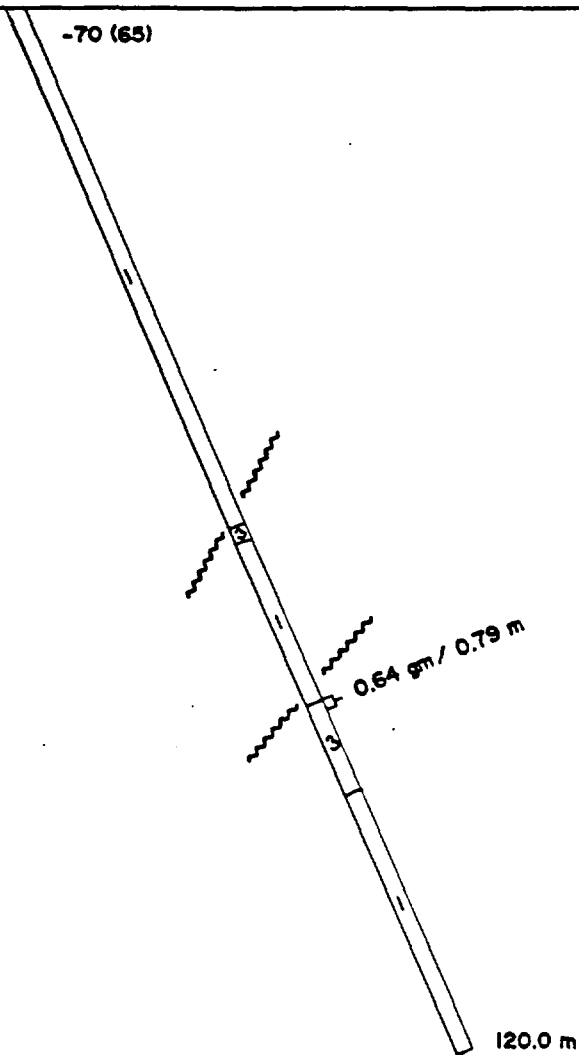
@107; matrix becomes v.well carb'd

@109.1-109.7; qtz veining and brecciation, no visible min.

E.O.H. 120m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157. ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-8



DIAMOND DRILLHOLE LOG: W97-09

1200157 Ontario Inc. - Esso/Marques Project

Claim # 1174694

Co-ordinates: North Grid L035WEST 234NORTH MARKES NORTH GRID

Azimuth: 194

Dip: -45 (-43.5 @ 102m)

Date Started: Jan.24/97

Date Finished: Jan.25/97

Logged by: J.A. Richard, BES-Geologist

Total Depth: 102m

0-5.71m casing

5.71-59.16m MAFIC METAVOLCANICS - MgBasalt flows
d.greenish, chloritic, massive to weakly foliated,
v.f.-f.grained, texturally banded at 60-70d to C.A.,
repetitive light greenish and siliceous bands separated
by 20-40cm of f.grained basalt - pillowed flow,
variably cut by qtz-calcite veinlets, trace sulphides,
weakly carb'd

@24.35-51.58; above grades to lithic fragmental mafic tuff;
lithic mafic tuff fragments and crystal fragments in
sl.siliceous, grey ash matrix, accessory magnetite,
weakly carb'd

@30.1; grey qtz vein and local brecciation

@35.13; weak to mod. shearing commences

@43.33-43.74; grey qtz veining with up to 50% fine
dissem py in laminae up to 3cm wide

@43.74; above grades into d.blackish greenish, v.f.-f.grained
flows, pervasively cut by fine qtz-calcite veinlets,
well carb'd matrix, general trace py-po, calcite
amygdaloidal in bands, unsheared

@44.52-44.58; fine py agglomerations up to 30-40%

@50.58; pervasive weak to mod. shearing recommences, at
60d to C.A.

@50.91-51.50; qtz veining and minor monzonite veinlets

@56.0-59.16; INTENSELY SHEARED, with significant late
grey qtz veining at 56.94-57.09, 57.33-57.75, with
1% fine py along brecciated contacts and matrix
flooding; 58.53-59.16-40-80% fine py laminae along
shear planes between qtz veins

59.16-66.30m FELSIC INTRUSIVE - quartz porphyry
massive, l.buff-grey, 2-5mm qtz phenos set in
sericite-silica matrix, < 5% mafics including
interstitial chlorite; upper and lower contacts of unit
strongly SHEARED

66.30-102.0 MAFIC METAVOLCANICS - MgBasalt, SHEARED-
unsheared

@66.30-78.85; INTENSELY SHEARED-MYLONITIZED mafic
chlorite-actinolite-calcite schist, strongly
carb'd, dissem py-po, shearing at 60d to C.A., few
xcutting grey qtz veinlets with local 5-10% fine
py along contacts; 80% fine po-py at 72.56-72.73

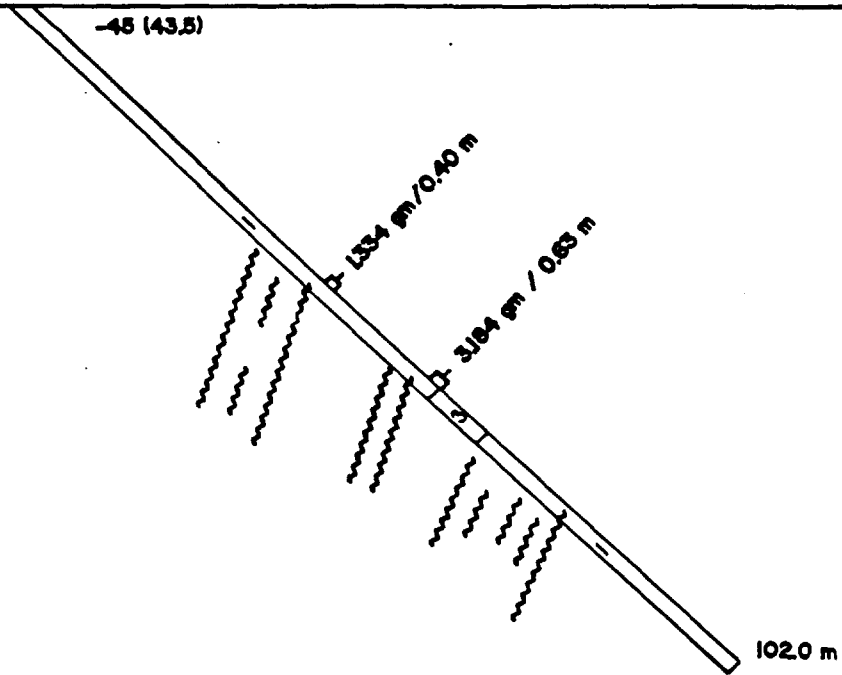
@78.85-91.60; weak to moderate shearing at 60d to C.A.,
d.blackish greenish, v.f.grained, variable
qtz-calcite veinlets overcut by some late grey qtz
veinlets, well carb'd, trace po-py

@91.60-102; massive unsheared, blackish, v.f.grained to
aphanitic, non-carb'd, cut by hairline calcite
veinlets, brecciated FeBasaltic ash tuff, 1-5%
euhed py

E.O.H. 102m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-9



DIAMOND DRILLHOLE LOG: W97-10

1200157 Ontario Inc. - Esso/Marques Project

Claim # 1174694

Co-ordinates: North Grid L035WEST. 234NORTH MARKES NORTH GRID

Azimuth: 194

Dip: -70 (-63.5 @ 120m)

Date Started: Jan.25/97

Date Finished: Jan.25/97

Logged by: J.A. Richard, BES-Geologist

Total Depth: 120m

0-3.0m casing

**3.0-39.20m MAFIC METAVOLCANICS - MgBasalt flow
med.greyish green, v.f.-f.grained, chlorite-rich,
texturally banded and mod.foliated at 45d to C.A., few
random po-py blebs-locally to 5%, non-carb'd matrix,
sequence gradually fines downhole**

@9.45-14.5; some large py blebs euh-subhedral py to 10-15%

@14.5; weak pervasive shearing commences

@25.6; 20 cm qtz vein at 35d to C.A., 1-2% py on contact

@33.0; matrix becomes very chloritic, highly carb'd

**39.2-50.34m FELSIC INTRUSIVE - Quartz porphyry
pale greenish grey, chlorite and sericite-silica
containing qtz and lesser plagio grains, weakly sheared
as above unit, progressively becomes strongly SHEARED
at 48m, no visible min.**

**50.34-77.45m MAFIC METAVOLCANICS -cherty
d.greenish grey to greyish green, v.f.grained to minor
aphanitic bands, well foliated to schistose, primary
laminated in bands with some lithic lenses, variably
cut by qtz-calcite veinlets, mineralized as noted below**

**@54.67-55.38; zone cut and brecciated by 40% qtz veining,
containing 1-5% fine po, lesser py, traces of chalco &
sphal, dolomite/ankerite rimming vein interiors**

**@55.38-55.88; mod.SHEARED, banded tuffaceous chert, locally
30-40% dissem py-po, trace chalco, sphal**

@55.88-66.15; f.g, chloritic, foliated schist, well carb'd

**@66.15-77.45; INTENSELY SHEARED, variable greyish to
greenish chloritic ash tuff, at 45d C.A., weak
carb.,some cherty lenses, trace py-po**

@74.9-76.0; heavy late grey qtz veining, local brecciation

of sheared matrix, and interstitial silica flooding, some smaller xcutting veinlets, 50-60% py-po locally along qtz contact, trace chalco and sphal in 0.25-1.5cm laminae.

77.45-88.84m FELSIC METAVOLCANICS - quartz porphry, SHEARED pale greenish to greyish, hard, f.g-v.f.grained to sucrosic/cryptocrystalline bands, grading to c.grained qtz-plagio grains in silica matrix by 82.0-88.84, variably cut by early qtz-calcite veinlets, ankeritic from 81-89.0

@88.0-89.0; three white qtz veins with Fe-ankerite giving pinkish hue, 1% dissem.py euhedra

88.4-120.0m MAFIC METAVOLCANICS - MgBasalt, SHEARED f.g-v.f.grained, foliated-mod.to strongly sheared to 45d to C.A., chloritic, and cherty in places, dissem and blebby py-po as noted, locally brecciated adjacent to veining, mod.to strongly carb'd

@90.68-91.74; qtz veining in sheared tuffs, with 80% qtz-silica flooding of matrix, dissem py to 50% locally

@91.74-98.49; sheared tuff with cherty lenses and dissem py-po to 10% in bands and blebby patches

@98.96-99.0; qtz veins with dissem py to 15% along contacts

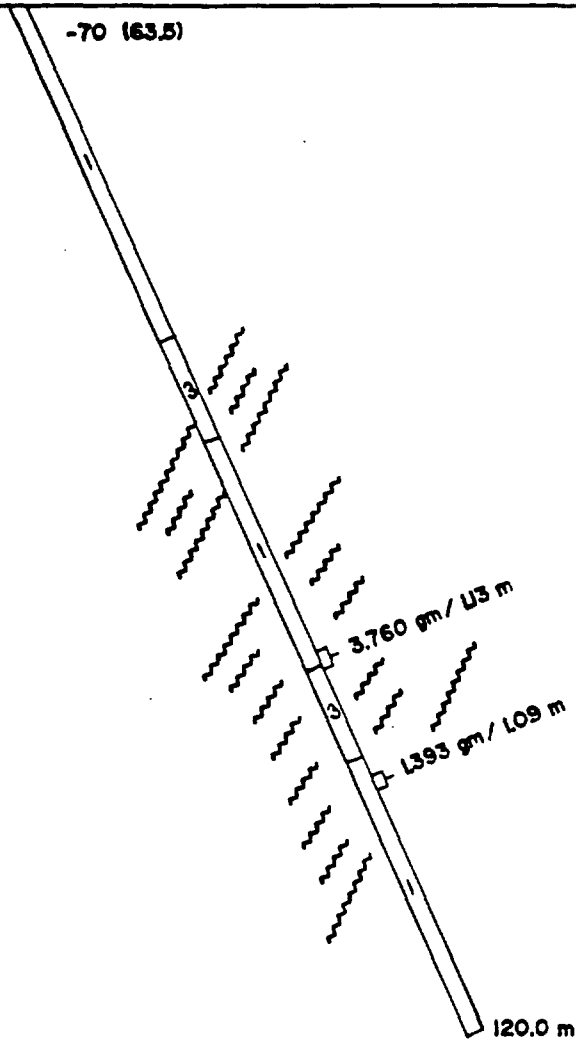
@99.28-120.0; tuff becomes very strongly sheared, cherty

@99.80-100.14; 20% dissem py-po

E.O.H. 120m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-10



DIAMOND DRILLHOLE LOG: W97-11
1200157 Ontario Inc. - Esso/Markes Project
Claim # 1174694
Co-ordinates: L100WEST 005NORTH MARKES GRID
Azimuth: 194
Dip: -80 (-80 @ 102m)
Date Started: Jan.26/97
Date Finished: Jan.26/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 102m

0-1.4 casing

1.4-48.39m MAFIC METAVOLCANIC - MgBasalt

med.greish green, v.f-f.grained, tuffaceous textures,
fine variable qtz-calcite veinlets and local silicif'n,
weak penetrative shearing to 25d to C.A., 1-2% fine py
along microfracture contacts, mod. carb'd matrix

@6.37-6.87; qtz vein infilling shear at 25-30d to C.A.

@11; matrix becomes brecciated along 25d to C.A. fabric,
slickensided partings, blebby py to 3%

@12.06-12.22; barren qtz vein

@13.82-13.85; narrow zone of strong shearing

@14.66; upper contact of SHEAR ZONE with matrix fabric
strongly sheared to 25-30d to C.A., moderately dense
qtz-calcite veining with py 1-2%, extensive qtz
flooding

18.85-24.8; very intensive microfracturing/microbrecciation,
fine qtz flooding with stringer and blebs of fine py
5-10%, sheared 25-30d to C.A.; decreasing brecciation
below 24.8

@27.6; qtz vein and flooding

@28.7-29.25; qtz vein and flooding, sheared 25-30d to C.A.,
1-3% py locally

48.39-67.22m INTERMEDIATE METAVOLCANIC or intrusive dike

med.grey, v.f-f.grained, equicrystalline, weak to
mod.brecciation, very siliceous, primary bedding to
30-40d to C.A., cut by numerous grey qtz veinlets,
fine dissem.py dissem.as blebs and vein-fills 1-5%, up
to 40% local

@50.88-51.0; 50-80% dissem.py, tr. chalco, tr.sphal.
@53.6-54.0; qtz veins & flooding, brecciated
@54.0-54.38; weakly sheared to 25-30d to C.A.
@61.3-61.65; good breccia structuring at 25d to C.A., weakly carb'd

67.22-78.13m MAFIC METAVOLCANIC-basalt

d.greenish grey, f-med.grained, equigranular massive flow ("gabbro" in old property logs), weakly carb'd, vague flow bandings, 40% amphiboles, no vis.min.; upper and lower conformable contacts to adjacent units-doesn't appear to be intrusive gabbro

78.13-96.65m FELSIC INTRUSIVE - quartz porphyry

-l.buff-grey, massive, irregular quartz and plagio grains and fragments (2-5mm) supported in aphanitic siliceous-sericitic matrix, trace sulphides, some qtz-calcite veinlets, coarsening down sequence

@83.0m;coarsens to f-med.grained

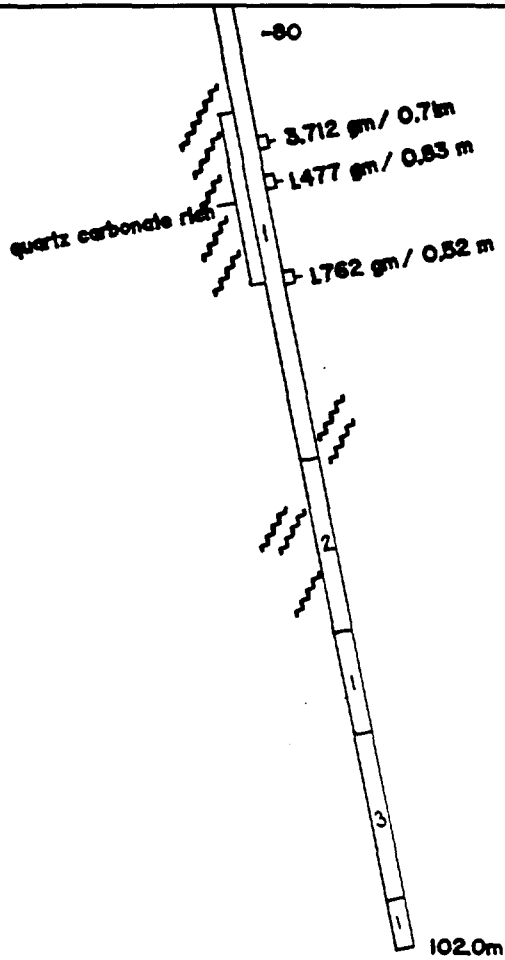
@88.94-89.25; four milky quartz veins and local silic'n, no visible min., magnetite-chlorite and amphiboles q increasing to intermediate compositions

96.65-102.0m MAFIC METAVOLCANIC - basalt flow
d.blackish green, v.f.g-aphanitic matrix, mod. soft, massive, moderately carb'd, variable qtz-calcite veining, pervasively strongly carb'd, approx. 1% py

E.O.H. 102m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-11



DIAMOND DRILLHOLE LOG: W97-12
1200157 Ontario Inc. - Esso/Marques Project
Claim # 1174694
Co-ordinates: L30WEST Q43 NORTH MARKES GRID
Azimuth: 194
Dip: -70 (-63.5 @ 102m)
Date Started: Jan.26/97
Date Finished: Jan.27/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 106m

0-3.38m casing

3.38-24.75m MAFIC METAVOLCANICS - MgBasalt & SHEAR
v.dark blackish green, v.f.g-f.grained, massive to weak
min.foliation at 45d to C.A., mod.carb'd and soft,
variable qtz-calcite veinlets, 3-5% fine py locally in
vein contacts
@21.3-24.75; SHEAR ZONE-gradational upper- lower contacts;
grey, v.f.grained-aphanitic, silicified mafics, 5-10% fine
dissem.py-po, sheared at 30d to C.A.
@21.95-22.5 intensely sheared with grey qtz veining and 25%
fine py-po, trace chalco

24.75-32.25 FELSIC METAVOLCANIC ash-tuff
l.grey, v.f.-f.grained, weakly brecciated and
texturally banded, non-carb'd, hard ash-tuff, some
qtz-calcite veinlets, 1-3% py-po fine blebbing, trace
chalco

32.25-33.15 MAFIC DIKE - undifferentiated
v.blackish-green, fine-equigranular, massive and
hard, carb'd, no visible min.

35.05-36.52; FELSIC INTRUSIVE - quartz porphyry
sharp contact to l.greenish grey, massive quartz grains
and minor plagio in siliceous matrix, 5-7% tourmaline
and chlorite in silica, very hard, trace py

36.52-40.28 MAFIC METAVOLCANIC - undifferentiated FeBasalt
blackish d.grey, v.f.-f-med.grained, massive, weakly
carb'd, few qtz-calcite veinlets cutting variably,
trace py-po, progressive silicified contact to..

40.28-54.55 FELSIC INTRUSIVE - quartz porphyry
quartz porphyry in old logs; is l.greenish buff,
coarse (2-4mm) qtz and lesser plagio, grain supported
fragments with siliceous matrix, <3% mafics-chlorite
and tourmaline, numerous qtz-calcite veinlets at 50d to
C.A., trace py
@47.4; localized 15% py along qtz veinlet contact
@49.18-51.35; SHEAR ZONE-l.grey, f.grained felsic
cataclastic at 50d to C.A., conformably cut by
whitish-grey late qtz veins with attendant qtz flooding
& 5-10% fine dissem. py-po
@51.35-54.55; SHEAR ZONE -above grades into sheared,
microfractured and qtz flooded, 5-7% fine py peppered
throughout unit, tourmaline locally concentrated along shear
plane stringer and blebs to 25%
@54.44; 8cm qtz 'mother' vein

54.55-75.63 INTERMEDIATE METAVOLCANICS & SHEAR ZONE
med.greenish grey, v.f.grained to aphanitic ash-tuff,
weakly carb'd, 20% mafics, shear laminated cataclastic
breccia textures at 45d to C.A., strongly sheared,
diminishing to mod.sheared by 56m, locally qtz flooded
and brecciated vein haloes
@56.0-56.07; qtz vein, no visible min.
@60.4-62.65; 10% po & py in along veins as blebs & stringers
@67.29-75.63; weak, diminished shearing in ash-tuff, at 45d

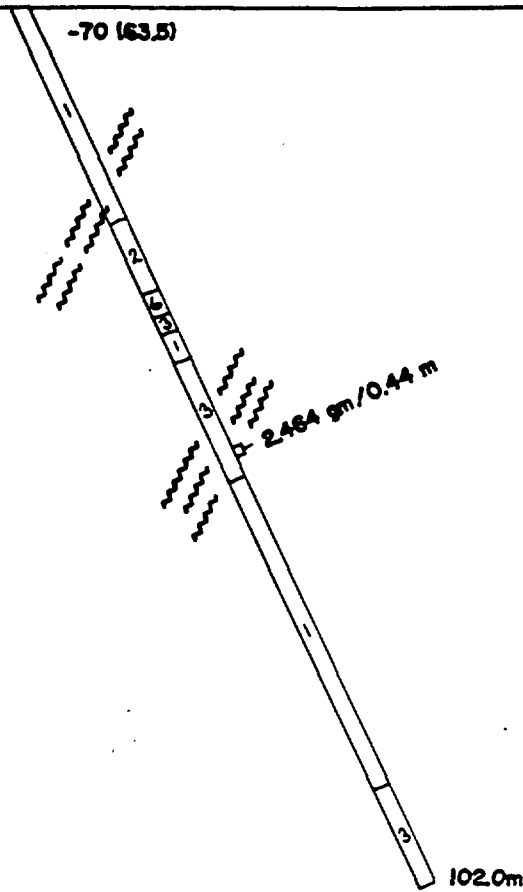
75.63-90.38m MAFIC METAVOLCANICS - FeBasalt - unsheared
blackish d.green, v.f.-f.grained, equigranular, weakly
flow foliated at 25d to C.A., amphiboles to 40%,
tr.py-po, variably cut by qtz-calcite veinlets
@89.07-89.3; qtz veined and v.silicified matrix with 10% py

90.38-106.0 FELSIC INTRUSIVE - quartz porphyry
l.greenish buff, 1-4mm qtz phenos, minor plagio phenos
and and v.coarse lithic xeno fragments in silica
matrix, <3% mafics-chlorite and tourmaline, trace py-po

E.O.H. 106m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-12



DIAMOND DRILLHOLE LOG: W97-13
1200157 Ontario Inc. - Esso/Markes Project
Claim # 1174694
Co-ordinates: L030WEST 078NORTH MARKES GRID
Azimuth: 194
Dip: -72 (-66 @ 132m)
Date Started: Jan.27/97
Date Finished: Jan.28/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 132m

0-2.55m casing

2.55-16.1m MAFIC METAVOLCANICS - FeBasalt flow "gabbro"
d.greenish black, med.grained, 60% pyrox-amphiboles
+plagio+magn, vaguely flow banded, non-carb'd, dense &
hard, v.minor qtz-calcite veinlets, is textural
"gabbro" by old logs-no intrusive contacts, NOT
intrusive genetic gabbro, tr. sulphides

16.1-69.2m MAFIC METAVOLCANICS - MgBasalt
d.greyish green, v.f-f.grained, massive, mod.hard,
mod.to strongly carb'd, few discrete qtz-calcite
veinlets mainly at 45-50d to C.A., no visible min.,
long featureless, monotonous sequences of mafics

@25.72-31.25; amygdaloidal calcite clots throughout matrix,
again at 32.0-36.0

@36.0-37.21; zone of moderate shearing

@44.7-48.2; py-po blebs in random patches and along
qtz-calcite veinlets at 45d to C.A.

@62.02-66.2; intensively qtz-calcite veined and brecciated

@66.0; minor shear structure

69.2-72.3m FELSIC INTRUSIVE - quartz porphyry
med.to l.greenish-grey, med-c.grained qtz eyes in
silica-sericite matrix, <3% mafics-chlorite along
fracture partings, trace only py-po

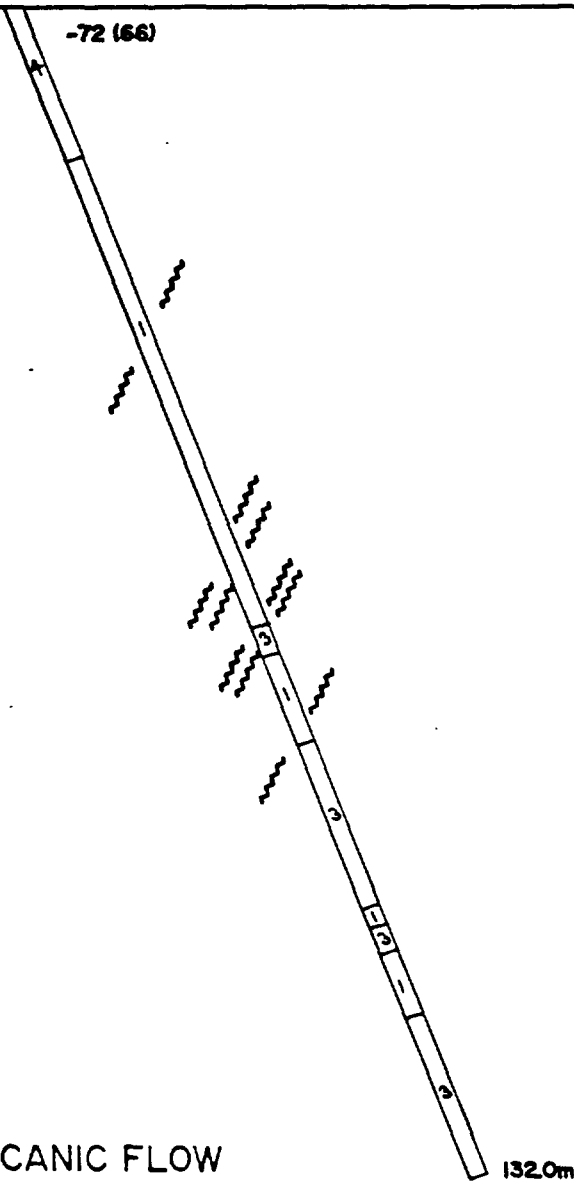
@69.88; 15cm qtz vein, barren

@70.44-72.29; SHEARED silicified matrix & qtz veining, minor
py-po and sphal.along shear planes, locally dissem at
10-20%

- 72.3-82.91m MAFIC METAVOLCANICS - FeBasalt flow
d.greyish green, massive to weakly foliated and flow
brecciated, v.f-f.grained, coarsening to med.grained by
77.0m, weakly carb'd, no visible min.
- 82.91-101.75m FELSIC INTRUSIVE - quartz porphyry, SHEAR ZONE
l.greenish grey-buff, coarse qtz eyes and lithic
fragments in silica-sericite matrix, <10%
mafics-chlorite, massive then SHEAR ZONE as noted
@82.80-83.48; shear breccia contact with qtz vein and
strongly SHEARED felsic, 10-15% py-po blebbing
along shear surfaces
@83.48-95.72; coarse grain supported, non-carb'd,
mod.sheared to 60d to C.A.
@95.72, grades to f.grained sericitic, numerous barren qtz
veins 97.2-99.42
@101.34-101.75; intensely sheared at 50d to C.A., grey qtz
veining, trace py - lower shear zone contact
- 101.75-103.95m MAFIC METAVOLCANICS - FeBasalt flow
blackish d.green, f.grained, massive to weakly flow
foliated, variably cut by qtz-calcite veinlets and
local brecciation, trace py-po only
- 103.95-106.33m FELSIC INTRUSIVE -quartz porphyry
unsheared, as in 82.91-101.75
- 106.33-114.0m MAFIC METAVOLCANICS - FeBasalt
d.greyish green, v.f-f.grained, texturally banded,
non-carb'd, no visible min., variably cut by
qtz-calcite, gradually becomes more siliceous below 113
- 114.0-132.0m FELSIC INTRUSIVE -quartz porphyry
med.-l.greenish grey, v.f.grained to aphanitic & banded
at 40d to C.A., with trace py-po blebs, grading at
118.47 to coarse qtz/plagio and lithic fragments in
silica matrix, <3% mafics-chlorite
@124.33; several grey qtz veins at 70-90d to C.A., trace
only of euh-subhedral py
- E.O.H. 132m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-13



DIAMOND DRILLHOLE LOG: W97-14
1200157 Ontario Inc. - Esso/Marques Project
Claim # 1174694
Co-ordinates: L03OWEST 113NORTH MARKES GRID
Azimuth: 194
Dip: -73 (-67 @ 171m)
Date Started: Jan.28/97
Date Finished: Jan.29/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 171m

0-4.03m casing

4.03-28.61m INTERMEDIATE INTRUSIVE - quartz-plagio porphyry
med.grey, f.grained, hard and siliceous, massive to
weakly foliated at 30d to C.A., rare qtz-calcite
veinlets, qtz/plagio fragments and 15% mafics
(chlorite/amphibole) in fine siliceous matrix,
non-carb'd, tr.py-po, some calcite amygdules below 24m

28.61-61.40m MAFIC METAVOLCANICS - FeBasalt flows
d.greenish black, v.f.grained to aphanitic,
equigranular, 50% amphiboles, profusely cut by
qtz-calcite hairlines, vague flow banding to 45d to
C.A. but otherwise massive, no visible min., minor 10cm
interbands of more siliceous facies

61.40-69.33m MAFIC METAVOLCANICS - MgBasalt flows
above unit grades into d.greenish, chloritic,
v.f-f.grained, weakly carb'd, flow banded, finely
amygdaloidal below 62m, trace py-po

69.33-77.9m FELSIC INTRUSIVE - quartz porphyry
med.grey, primary laminated, coarse qtz fragments and
minor plagio supported in glassy, siliceous matrix,
trace only py-po

@76.0-77.9; l.grey v.f-aphanitic, massive

77.9-119.12m MAFIC METAVOLCANICS - MgBasalt massive flows
d.green, chlorite-rich, v.f-f.grained, weakly flow
foliated at 35-45d to C.A., extensively cut at 25-40d
to C.A. by qtz-calcite veinlets, weakly carb'd matrix
but increasing downhole, <1% py-po

@86.75; 3cm late grey qtz vein, no visible min.

@103m and below; amygdaloidal bands and 1-3% py blebs

119.12-147.38m FELSIC INTRUSIVE - quartz porphyry
contact to l.grey, 2-5mm qtz eyes in
sericitic-siliceous matrix-coarsening down, non-carb'd,
foliated at 45d to C.A., no visible min.

@118.1-119; SHEARED, microbrecciated with qtz vein flooding,
tr.py-po

@131-139.54; microfracturing and numerous grey qtz veinlets
with pinkish ankerite, oriented at 45-65d to C.A., 1%
py-po blebbing along contacts

@145.66-147.38; SHEARED, py-po blebbing at 1-3% along shears

147.38-154.55m MAFIC METAVOLCANICS - FeBasalt
d.greenish grey, v.f.f.grained, massive, non-carb'd,
variable qtz-calcite veinlets, no visible min.,
chloritic partings

@154.39-154.7; grey qtz vein ZONE and locally brecciated
with magnetite concentrated along contacts, fine
dissem.py 5-10% with trace chalco

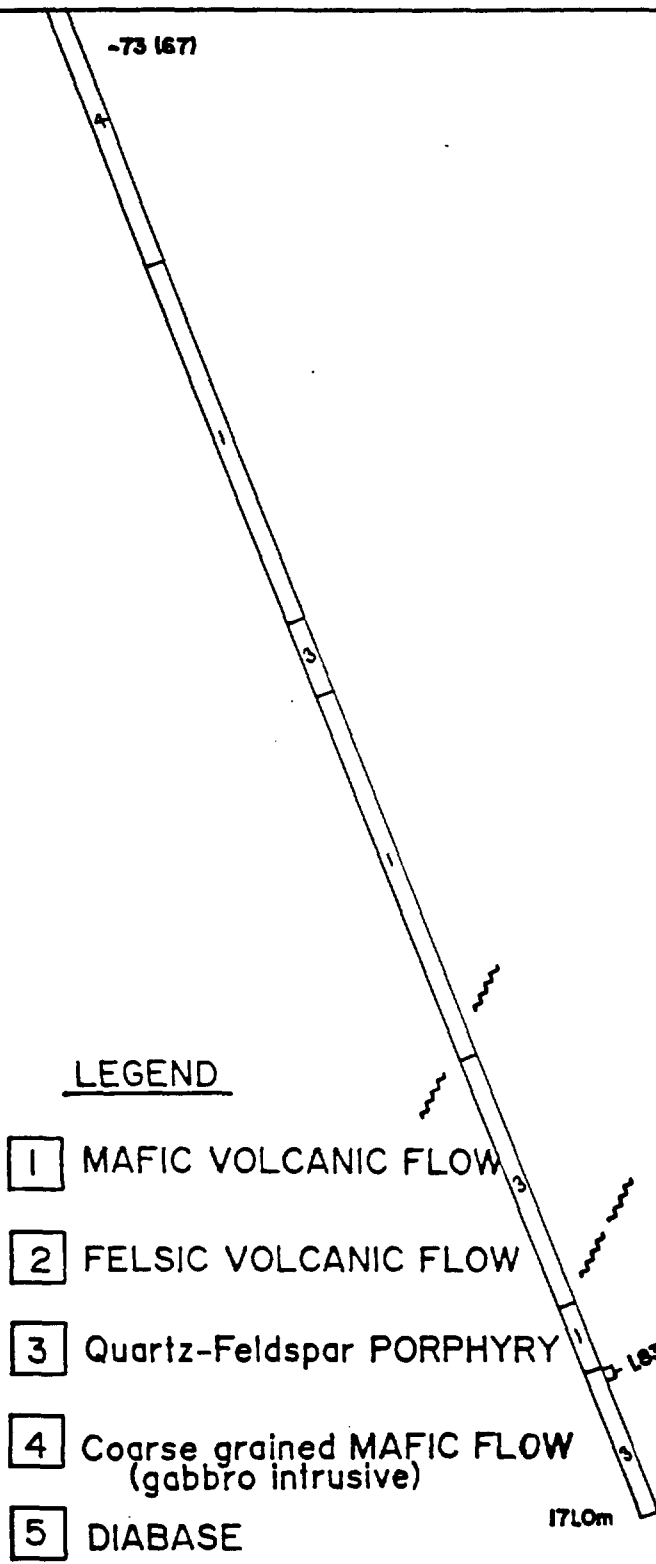
154.55-171.0m FELSIC INTRUSIVES - quartz porphyry
sequence as in 119.12-147.38, extensively cut by
translucent late qtz veinlets with some variable fine
py dissem. along contacts

E.O.H. 171m

NORTH

SOUTH

-73 167



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW (gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
 SECTION
 MARKES-PELE PROJECT
 DDH DRILLHOLE 97-14



DIAMOND DRILLHOLE LOG: W97-15
1200157 Ontario Inc. - Esso/Markes Project
Claim # 1174694
Co-ordinates: L00 075 NORTH MARKES GRID
Azimuth: 194
Dip: -62 (-54 @ 111m)
Date Started: Jan.29/97
Date Finished: Jan.30/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 111m

0-2.78m casing

2.78-11.50m MAFIC METAVOLCANICS - MgBasalt
d.green, weakly foliated at 45d to C.A. (primary
bedding), mod.soft, variably cut by calcite veinlets
and amygdules, trace po-py

11.50-15.68m INTERMEDIATE METAVOLCANICS - lapilli tuff
med.grey, massive and equicrystalline, f.grained with
siliceous matrix, 20% mafics, up to 5% dissem. py-po

15.68-52.40m MAFIC METAVOLCANICS - FeBasalt flows
d.blackish greenish, v.f.-f.-med.grained,
equicrystalline, 60% amphibole-magn in flow bandings at
55d to C.A., variable qtz-calcite veinlets, trace
po-py, minor chlorite-enriched bands, some flow
brecciations, weak to non-carb'd, sequence is
cyclically banded

@51.42-52.4; SHEARED, qtz veined and flooded matrix,
silicified l.greenish matrix

52.40-62.0m MAFIC METAVOLCANICS - MgBasalt flows
d.blackish greenish, v.f.-f.grained, weakly sheared
along upper contact, then massive to weakly flow
banded, mod.to strongly carb'd, 1-3% dissem. euh.py

@60.2; 3cm qtz vein with minor po and sphal along contact
@60.42; 10cm qtz vein, no visible min.

62.0-67.08m INTERMEDIATE METAVOLCANICS - flows
gradation from above with mafics decreasing to 15-20%,
med.grey, f.grained, massive to weakly flow banded,
minor qtz veins but numerous calcite veinlets, weakly
carb'd matrix, trace only py-po, overall increasingly
siliceous matrix

67.08-74.75m FELSIC INTRUSIVE - quartz porphyry
l.greenish grey, lithic felsic fragments and quartz
crystals in silica matrix, <10% mafics-chlorite and
amphiboles, progressively decreasing downhole, trace
py-po, vaguely foliated at 45d to C.A., rare qtz-carb
veinlets

@72.21-74.75; intensely sheared, 1-5% py-po along shear
planes, 15% disseminated po in discrete bands, 60% fine
dissem. po at 74.92-74.96; zone contains grey
translucent qtz veining

74.75-81.52m MAFIC METAVOLCANICS - FeBasalt, unshered
d.blackish green, v.f.f.grained, massive, non-carb'd,
variably cut by qtz-calcite veinlets, no visible min.,
becoming progressively more siliceous with depth-traces
of po-py

@81.23-81.52; translucent qtz vein, containing
dolomite&ankerite along contact

81.52-88.76m FELSIC INTRUSIVE - quartz porphyry
buff-grey, 2-4mm qtz eyes and lithic fragments in
aphanitic silica-sericite matrix, massive except for
microfracturing along predominant trend 45d to C.A.

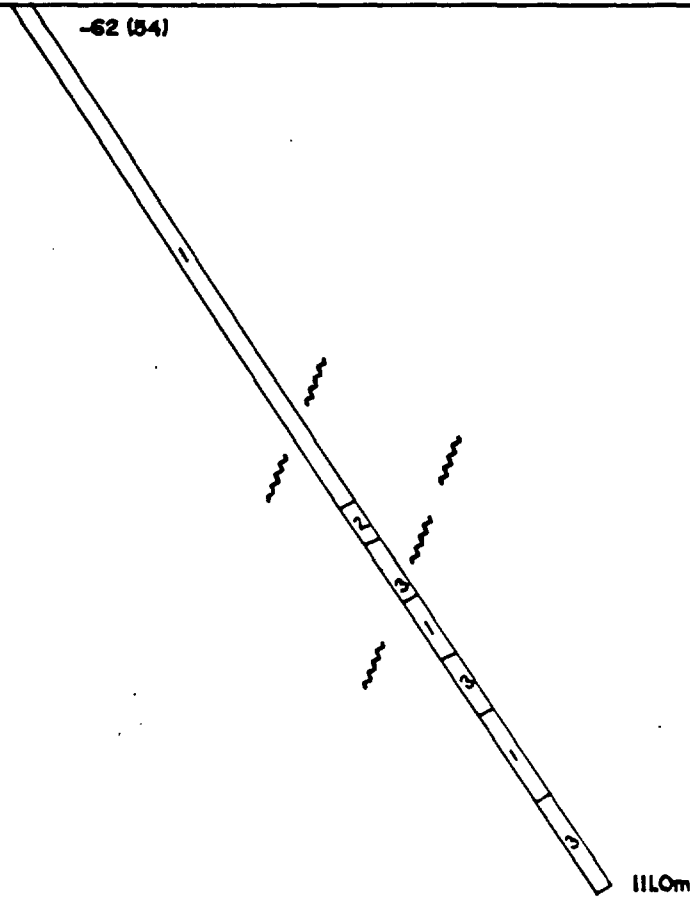
88.76-99.80m MAFIC METAVOLCANICS - FeBasalt
d.greenish grey, v.f.f.grained, massive to weakly flow
textured, variably cut by calcite veinlets up to 1cm
width, 10cm qtz vein at 90.0, trace po-py, grades into

99.80-111.0m FELSIC INTRUSIVE - quartz porphyry
pale greenish grey, v.f.grained to aphanitic, slump or
flow surface breccias, foliated to 45d to C.A., some
qtz veinlets parallel to bedding, trace py-po;
grades coarser at 102.34, coarse lithic fragments and
qtz crystals, mafics-chlorite/amphibole increasing
downhole to 20% at hole's end, pervasive
qtz-calcite veining, trace only py-po

E.O.H. 111m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-15



DIAMOND DRILLHOLE LOG: W97-16
1200157 Ontario Inc. - Esso/Markes Project
Claim # 1174694
Co-ordinates: L00 120 NORTH MARKES GRID
Azimuth: 194
Dip: -70 (acid test n/a)
Date Started: Jan.31/97
Date Finished: Feb.1/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 160m

0-9.24m casing

9.24-76.5m MAFIC METAVOLCANICS - MgBasalt flows
d.greenish, repetitive textural cycles of
f.-med.grained flows, chlorite-rich, massive to weakly
foliated, slightly porphyritic (plagio), low density of
calcite veining, few qtz veinlets with epidote haloes,
accessory magn. increases downhole, non-carb'd matrix,
trace py-po, very consistent sequence, grades quick to

76.5-108.34m MAFIC METAVOLCANICS - FeBasalt flows &
interflows

blackish d.greenish, repetitive textural cycles from
f.-med.grained flow to f.-v.f.grained to aphanitic
glassy ash tuffs with minor cherty zones (concoidal
fractures), chlorite-poor and non-carb'd; tuffs are
cyclically repetitive and finely autobrecciated

108.34-117.92m CLASTIC METASEDIMENTS

blackish, v.f.grained to sucrosic and aphanitic,
tuffaceous cherty wackes and cherts, massive to vaguely
bedded at 45d to C.A., glassy concoidal to flinty core
fractures, variable qtz-calcite hairline veinlets, few
autobrecciation horizons, pervasive dissem.po <1%,
minor weak shearing 115-117.92 -waterlain ash sediments

117.92-125..80m INTERMEDIATE METAVOLCANICS - ash tuff
med.greenish grey, v.f-f.grained, equigranular and
hard, massive to weakly foliated at 35-45d to C.A., po
to <1%

@120.2 and 123.29-129.48; qtz veins, no visible min.

125.80-144.34m FELSIC INTRUSIVE - quartz porphyry
l.grey to pale greenish grey, foliated, coarse qtz
eyes, lesser plagio grains and lithic fragments in

sericite-silica matrix, trace py

@141.78-144.34; SHEARED intensely, mylonitized/shear laminated, <1% fine py

@142.66-143.70; SHEARED, locally up to 5% py, crenulated late grey qtz vein-coeval with shear event

144.34-147.71m MAFIC METAVOLCANICS -MgBasalt

@144.34-145.80; SHEARED, d.greenish, strongly sheared chlorite schist, with fine disseminated py (1%) along grey qtz veining

@145.88-147.71; UNSheared, d.emerald green, chlorite-rich, v.f.grained mafic ash tuff, laminated, cut by calcite veinlets, <1% fine py along xcutting grey qtz veinlets

147.71-150.49m INTERMEDIATE METAVOLCANICS - ash tuff med.-d.grey, 15-20% amphibole/chlorite in v.f.f.grained siliceous rock, weakly bedded at 45d to C.A., variably cut by qtz-calcite veinlets, no visible min.

150.49-160.0m FELSIC INTRUSIVE - quartz porphyry pale greenish buff, coarse lithic xenos and qtz eyes in sericite-silica matrix, <3% mafics-chlorite, cut variably by qtz-calcite-ankerite veinlets and a few xcutting, crenulated grey qtz veinlets with po-py along contacts

@150-152; mod. sheared with po-py bands to 5%

@155-160; qtz-albite-ankerite alteration, pinkish, localized vugginess

E.O.H. 160m

NORTH

SOUTH

-70

clastic metasediment LF.

LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW (gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

9.272 gm/0.40m (3121 gm/150m)

160.0m

1200157 ONTARIO INC.
SECTION

MARKES-PELE PROJECT

DDH DRILLHOLE 97-16



DIAMOND DRILLHOLE LOG: W97-17
1200157 Ontario Inc. - Esso/Markes Project
Claim # 1174694
Co-ordinates: LOO 157 NORTH MARKES GRID
Azimuth: 194
Dip: -72 (-66 @ 220m)
Date Started: Feb.1/97
Date Finished: Feb.2/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 220m

0-3.5m casing

3.5-98.46m MAFIC METAVOLCANICS - MgBasalt flows thick, monotonously consistent sequence of d.green-blackish green, v.f.-f.-med.grained, fine to coarse porphyritic plagio "snowflakes" in otherwise equicrystalline, massive to weakly foliated matrix, vague textural flow bandings at 35d to C.A., chloritic and felty in places, matrix mod.carb'd-some qtz-calcite veinlets, few vuggy qtz-epidote-calcite veinlets, trace po-py blebs; whole unit progressively coarsens downward, to conformable gradation to..

98.46-103.76m CLASTIC METASEDIMENTS OR FINE FELSIC DIKE tuffaceous cherts, coarse lithic mafic tuff fragments up to 1cm, together with broken qtz grains in sucrosic, cryptocrystalline chert matrix, well banded, 1-2% po-py finely dissem. along microfractures, autobrecciated lower contact to..

103.76-111.83m MAFIC METAVOLCANICS - MgBasalt flows, minor tuff as described above in 3.5-98.46m

@104.60-104.72 and 107.78-109.0; cherty mafic tuff intercalations, conformable with adjacent mafic flows; v.f.grained greenish grey ash matrix bearing coarse lithic fragments, cherty lenses within, latter layer contains grey qtz veinlet with 1% fine dissem.py at 90d to C.A.

111.83-124.80m INTERMEDIATE METAVOLCANICS -cherty tuff & cherts d.grey, med.grained qtz and mafic (20%) lapilli in siliceous, cryptocrystalline cherty ash matrix, vaguely laminated at 40-45d to C.A., some discrete grey qtz veinlets xcutting all at 90d to C.A., trace po-py

@124.80-125.48; banded sedimentary chert, l.grey, dense, sucrosic cryptocrystalline silica gel, thin mafic tuffaceous horizons within, trace only po-py

124.80-178.2m MAFIC METAVOLCANICS - FeBasalt flows & cherty tuffs

@124.80-138.0; blackish, v.f.grained to aphanitic mafic Fe-rich tuffs in cherty matrix, banded at 40d to C.A., fine variable calcite veinlets and locally microbrecciated, glassy concoidal fracture, grades to..

@138.0-156.8; blackish, med-c.grained Fe-thol. flow, 60-70% mafics (amphiboles/magnetite) massive and densely equicrystalline, v.hard (rings when struck), no visible min.; "gabbroic" texture but no intrusive contacts

@156.8-178.2; blackish, v.f.grained to aphanitic, banded cherty lapilli ash tuff at 40d to C.A., concoidal fracture, po-py to 1-3% in blebs & dissems.,

@160.8; 20cm qtz-calcite vein, trace py

@165.5; banded tuffaceous chert with up to 10% po-py and trace chalco in clusters

178.2-196.36m FELSIC INTRUSIVE - quartz porphyry pale greenish-buff, massive, f.-c.grained felsic lithic fragments and qtz-plagio eyes in sericitic-silica matrix, <1% blebs po-py, rare qtz-calcite veinlets

196.36-220.0m MAFIC METAVOLCANICS - SHEARED fine flows/tuffs

@196.36-202.3; INTENSELY SHEARED laminations of finely brecciated mafics-chlorite/actinolite schist, qtz-carbonate and laminar horizons and disseminations of py-po to 10%, all foliated at 20-25d to C.A.

@198.12; 5cm xcutting translucent qtz vein and qtz flooding

@202.0-211; d.greenish, f.grained, flow banded mafic tuff, MODERATELY SHEARED, 1-5% euh-subhedral py

@211.0-220.0; above grades into NON-SHEARED v.f.grained, banded, cherty ash tuffs, v.cherty 211-212 with 0.5-1cm chert laminae with up to 60% po in contact laminations; unit otherwise contains blebby py-po to 1%

E.O.H. 220m

NORTH

SOUTH

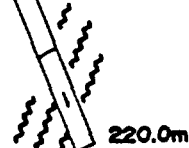
-72 (66)

classic metasediment LF.

LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-17



DIAMOND DRILLHOLE LOG: W97-18
1200157 Ontario Inc. - Esso/Marques Project
Claim # 1174694
Co-ordinates: L052WEST 042NORTH MARKES GRID
Azimuth: 194
Dip: -55 (-46.5 @ 102m)
Date Started: Jan.31/97
Date Finished: Jan.31/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 102m

0-2.29m casing

2.29-24.75m MAFIC METAVOLCANIC - MgBasalt
d.blackish green, v.f-f.grained, massive to weakly
foliated, soft, cut variably by qtz-calcite veinlets,
occ'l bleb of fine py-po, mod. carb'd matrix

@21.0m and below; interbands of greyish felsic tuff with
fine py-po blebbing

24.75-46.81m INTERMEDIATE TO FELSIC METAVOLCANIC - tuffs
gradational sequence of l.grey, v.f.g-aphanitic matrix,
flow banded and mod.brecciated ash-tuff along 45-55d to
C.A., 1-2% po-py in hairline stringers, grading into
med.grey, f.grained massive to locally brecciated,
non-carb'd lapilli tuff

@29.1; qtz vein over 10cm with 10% po around contacts
@32.24-46.81; lithic tuff, felsic fragments and broken qtz
grains in siliceous matrix, 1-2% dissem.py
@40.0; 15cm white qtz vein, tr.py only with contact chlorite
@44.28-45.1; SHEAR ZONE-sheared strongly at 50-55d to C.A.,
weak chlorite-calcite within matrix, qtz veinlets & <1%
finely dissem.py-po

46.81-49.54m MAFIC METAVOLCANIC - FeBASALT flow
d.grey-blackish, f.grained, massive, non-carb'd, hard
5, few qtz-calcite veinlets, tr.py-po

49.54-56.42m FELSIC METAVOLCANIC - cherty ash-lapilli tuffs
l-med.grey, v.f.grained to aphanitic, massive,
non-carb'd, cherty in layers, some tuffaceous bandings
and random silica gel patches, cut by numerous late
grey qtz veinlets, tr.py-po along vein contacts

@50.44-52.22; 5-7% very fine dissem.py

@ 54.7-54.82; silica gel-laminated chert band at 45d to C.A.
with dissem. py-po up to 10%

@55.65-56.42; increasing chlorite content, greenish grey,
v.f.grained, minor sulphides, mod.well carb'd, cherty
horizons

**56.42-63.0m CLASTIC AND CHEMICAL METASEDIMENTS
(INTERBEDDED)**

banded cherts and tuffaceous argillites/wackes;
laminated silica bands within dark greenish grey,
v.f-aphanitic foliated sediments, displaying primary
lamination, slump and dewatering structures, mod.well
carb'd, laminar po-py blebbing and some disseminations,
locally 10-20%, increasingly mafic after 62m

63.0-88.56m FELSIC METAVOLCANIC tuffs and minor flows
l.grey, aphanitic to v.f-f.grained, cherty in places,
primary laminations at 45d to C.A., slump breccia
structures and coarse lapilli fragments in siliceous
matrix, <1% py-po blebs and stringers, coarsens to
f.g-med.grained tuff

@74; cherty lenses diminish, slight chlorite giving flinty
fractures

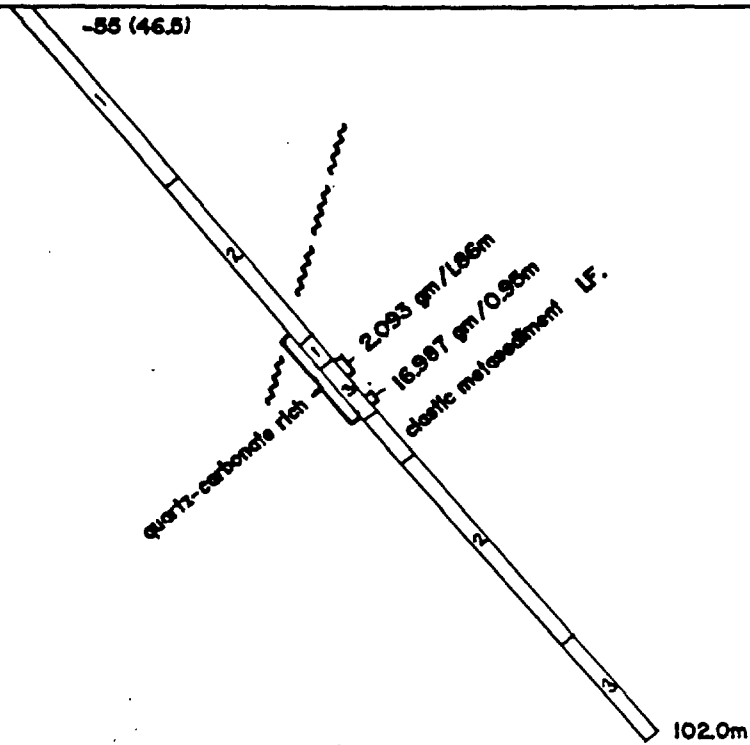
@79.20-79.29; qtz-calcite veining and local brecciation

88.56-102.0m INTERMEDIATE-FELSIC INTRUSIVE - quartz porphyry
greenish dark grey, med-c.grained qtz and lesser plagio
crystals set in v.f-aphanitic siliceous-sericitic
matrix containing 10-15% amphiboles, minor
qtz-calcite veining, tr.-1% py-po

E.O.H. 102m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-18



DIAMOND DRILLHOLE LOG: W97-19
1200157 Ontario Inc. - Esso/Marques Project
Claim # 1174694
Co-ordinates: LO18WEST IO9NORTH MARKES GRID
Azimuth: 194
Dip: -65 (-65 @ 120m)
Date Started: Jan.30/97
Date Finished: Jan.30/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 120m

0-4.25m casing

4.25-10.68m MAFIC METAVOLCANICS - MgBasalt
med.greenish, f.grained, equicrystalline, massive, rare
qtz-calcite veinlets, trace py-po

10.68-30.84m FELSITE DIKE
med. grey, massive, coarse qtz crystals and fragments
set in silica matrix, non-carb'd, no visible min., <10%
mafics, 'ladder' microfracturing and calcite fills at
45d to C.A. below 27m

30.84-68.05m MAFIC METAVOLCANICS - FeBasalt flows

@30.84;d.grey-blackish, v.f.grained to aphanitic glassy
matrix, intensely and variably microveined by
qtz-calcite primarily at 25-30d to C.A., non-carb'd
siliceous matrix

@42.0; above tuff in conformable contact to d.greyish black,
v.f-f.grained, equicrystalline, Fe-rich flow (60%
amphib-magn), flow banded with some 'gabbroic'
textures, interbanded with minor brecciated lithic
fragmentals that are mod.well carb'd and extensively
cut by calcite veinlets, unlike flow facies, all banded
at 45d to C.A., trace only py-po

68.05-93.73m MAFIC METAVOLCANICS - Fe to MgBasalt flows, tuffs
above sequence grades to med.greyish green, f.grained
massive flows, interbanded at 45d to C.A. with minor
v.f.grained, laminated ash-tuffs, non-carb'd, locally
brecciated with qtz-calcite veinlets and 1% py-po,
trace chalco; grading into softer, d.green chloritic
MgBasalt by 85m, 1-3% py-po blebs and trace chalco.

@90.53m; mafic flow becomes strongly SHEARED at 55d to C.A.,

large 8-10cm qtz veins at 90.53 & 91.3, 5% po along vein contacts

@93.37-93.73; intense SHEAR with late qtz veins parallel to shearing at 55d to C.A., with 10-15% po, minor py and trace chalco along contacts

93.73-103.97m FELSITE DIKE

med.greenish grey, 15-20% mafics, equicrystalline, massive to vaguely foliated at 45d to C.A., v.f.-f.grained, non-carb'd and rare calcite veining, trace po-py

103.97-120.0m FELSIC INTRUSIVE - quartz porphyry dike
pale greenish-grey, massive, 2-5mm lithic fragments and lesser qtz-grain supported with sericitic-silica matrix, <5% mafics-chlorite/amphibole, trace only po-py

@103.66-103.97; SHEAR with grey qtz veining and local brecciation, 1-10% py along contacts

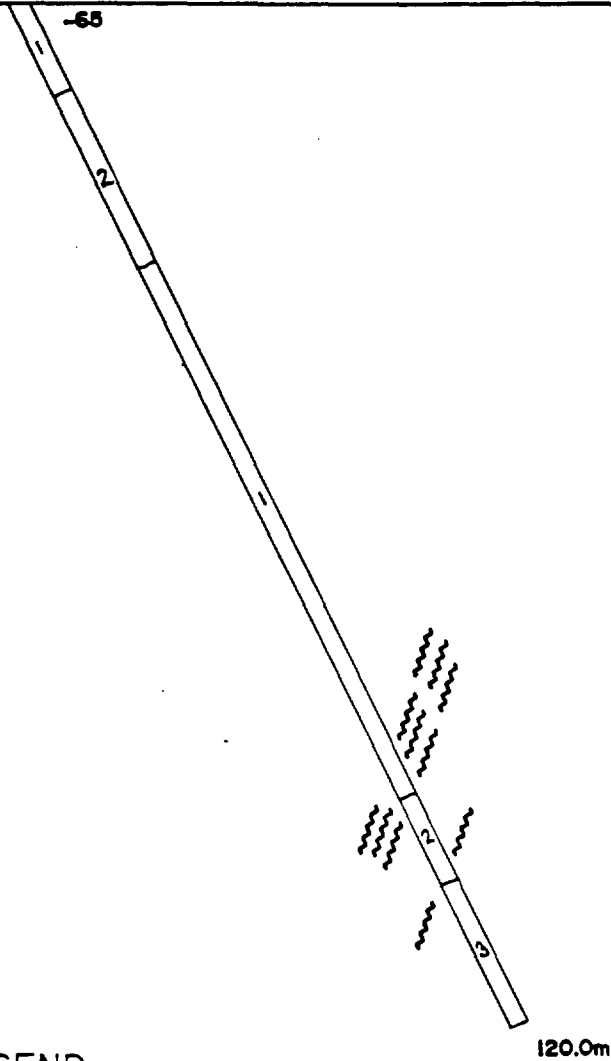
@106.3; monzonite (qtz-Kspar) veinlet, no min.

@116, unit fines, minor barren qtz veinlets

E.O.H. 120m

NORTH

SOUTH



LEGEND

- 1 MAFIC VOLCANIC FLOW
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

1200157 ONTARIO INC.
SECTION
MARKES-PELE PROJECT
DDH DRILLHOLE 97-19



DIAMOND DRILLHOLE LOG: W97-20
1200157 Ontario Inc. - Esso/Marques Project
Claim # 1174694
Co-ordinates: L034EAST 131 NORTH MARKES GRID
Azimuth: 194
Dip: -60 (-51.5 @ 180m)
Date Started: Feb.2/97
Date Finished: Feb.3/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 180m

0-3.5m casing

3.5-116.9m MAFIC METAVOLCANICS - MgBasalt flows thick, monotonously consistent sequence of Mg-rich basalt flows; d.emerald greenish, f.-med.grained, massive to weakly banded at 45d to C.A., weak qtz-calcite-epidote veining and non-carb'd matrix, numerous discrete flow surface breccias, fine to coarsely porphyritic plagio generally throughout, progressively increasing Fe downhole, trace only po-py

@101.3-103.0 & 107-108.0; moderately sheared layers shown by stretched plagio phenos, no visible min.

116.9-135.3m CLASTIC/CHEMICAL METASEDIMENTS -tuffaceous cherts

@116.9-131.7; conformable contact from above mafic metavolcanics to blackish, v.f.grained to aphanitic, glassy banded tuffaceous wackes & cherty ash tuffs, texturally laminated, cut by qtz-calcite veinlets, microfractures filled with 1-3% fine py, minor euh py in matrix, concoidal fractures

@131.7-135.2; d.brownish to black tuffaceous cherts, laminated, containing lithic and qtz grain fragments, sucrosic-cryptocrystalline texture with a concoidal fracture

135.3-162.4m MAFIC METAVOLCANICS - FeBasalt flows, minor tuffs d.grey to blackish, med.-c.grained, equicrystalline and massive to locally flow banded, dense and heavy with 60%+ amphiboles and magnetite, "gabbroic" texture, but not intrusive as is conformable to units above and below

@151; flow grades into f.-v.f.grained tuffs, texturally

banded, cut variably by qtz-calcite veinlets, matrix is brecciated, non-carb'd, cherty matrix approaching unit base, trace po-py - essentially a volcanoclastic sed.

162.40-168.25m CLASTIC METASEDIMENTS

@162.4-164.7; argillite-d.grey, chlorite-sericite microfoliated schist cleaving at 50d to C.A., very soft

@164.7-168.25; tuffaceous wacke-blackish, laminated, v.f.grained to aphanitic and sucrosic textures, concoidal fracturing, non-carb'd

@167.4; 2cm qtz-dolomite xcutting veinlet with 5% finely disseminated

168.25-180.0m MAFIC METAVOLCANICS - SHEARED tuffs

d.greyish green, f.grained to aphanitic in discrete textural ash-tuff laminations, calcite amygdaloidal in well carb'd matrix, MODERATELY SHEARED, 1% fine disseminated

@168.4-169.25; STRONGLY SHEARED

E.O.H. 180m

NORTH

SOUTH

-60 (SLB)



classic metasediment LF.

LEGEND

- 1 MAFIC VOLCANIC FLO
- 2 FELSIC VOLCANIC FLOW
- 3 Quartz-Feldspar PORPHYRY
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration



classic metasediment LF.

1200157 ONTARIO INC.
SECTION

MARKES-PELE PROJECT

DDH DRILLHOLE97-20

180.0m



DIAMOND DRILLHOLE LOG: W97-21
1200157 Ontario Inc. - Esso Markes Project
Claim # 1174694
Co-ordinates: L034E 175 NORTH MARKES GRID
Azimuth: 194
Dip: -60 (-50.5 @ 201m)
Date Started: Feb.3/97
Date Finished: Feb.4/97
Logged by: J.A. Richard, BES-Geologist

Total Depth: 201m

0-1.9m casing

1.9-99.35m MAFIC METAVOLCANICS - MgBasalt flows
thick, monotonously consistent flow sequence; d.emerald
green, chloritic, v.f-f-med.grained matrix and
porphyritic plagio phenocrysts "snowflake" textured,
sequence progressively coarsens downhole, massive to
weakly foliated-flow banded, non-carb'd, discrete flow
surface breccias at 20d to C.A., some zones of
qtz-calcite-epidote veinlets, trace py-po

@50.52-50.83; qtz-calc-epidote veinlets with 1-3% fine
dissem. py

@66-69; py-po blebbing to 3-4mm each dissem.in matrix

@75-90; flows coarsen med-c.grained mafics, plagio
phenocrysts up to 0.5cm

@82.0 down; pervasive variable qtz-calcite veinlets at
10-30d to C.A.

@88.8-90.51; three zones of qtz-carb veining with strong
epidote haloes, 1-3% py-po and trace chalco

99.35-112.18m INTERMEDIATE METAVOLCANICS - or FELSIC DIKE
med.-d.grey, greenish, 20% lithic ash fragments and qtz
fragment in v.siliceous matrix, some tuffaceous cherty
lenses towards sequence base, trace only po-py as
dissems along veinlet contacts

@101.9, 102.9&103.4; qtz-carb veinlet sets, tr.py-po

112.18-167.0 MAFIC METAVOLCANICS - MgBasalt flows, to tuffs
massive flow sequence as noted above in 1.9-99.35m

@139.35; three en echelon grey qtz veins each with 25cm
epidote haloes and <1% py

@147.4; 3cm grey qtz vein

@159.3-159.5; grey qtz veins, 1% py as blebs and dissem.

@161-167; flows grade to f.-v.f.grained tuffs grading into sediments-increasing interdigitations of grey ash-tuff bands (all at 60d to C.A.) within chloritic, d.blackish green.v.f.grained tuff, progressively grading into...

167.0-175.6m CLASTIC/CHEMICAL METASEDIMENTS - tuffaceous, cherty blackish, laminated/banded, cryptocrystalline to sucrosic, coarse tuff fragments in chert, conchoidal fracturing, interlaminated with greyish tuffaceous f.grained wacke laminae at 60d to C.A., trace po-py

175.6-193.0 MAFIC METAVOLCANICS - FeBasalt "gabbro" conformable contact of above unit to blackish, c.grained, v.dense and massive, equicrystalline, 60% amphiboles-magnetite; "gabbro" textured, but NON-INTRUSIVE, is coarse Fe-thol.flow

193.0-201.0m CLASTIC/CHEMICAL METASEDIMENTS-tuff.cherts & wacke gradation from above into v.f.grained to aphanitic/cryptocrystalline, interdigitated cherty ash tuff and tuffaceous f.grained wacke bandings, lithic fragments in discrete layers, some qtz-calcite hairline veinlets, flinty to conchoidal glassy fractures, trace po-py

E.O.H. 201m

NORTH

SOUTH

-60
(50.5)

quartz carbonate rich

LEGEND

- 1 MAFIC VOLCANIC FL
- 2 FELSIC VOLCANIC FLO
- 3 Quartz-Feldspar PORPHYR
- 4 Coarse grained MAFIC FLOW
(gabbro intrusive)
- 5 DIABASE
- 6 LAMPROPHYRE
- 7 Quartz-Carbonate Alteration

clastic metasediment LF.

1200157 ONTARIO INC.
SECTION

MARKES-PELE PROJECT

DDH DRILLHOLE 97-21

200m

metased.
LF.



DIAMOND DRILLING LOG **W97-22**
Pele Mountain Resources - Wawa Project
Claim #: 1174694
Coordinates: 200E, 100S
Azimuth: 180 deg.
Dip: -45 deg. @ 18 m
Date started: 25 June 1997
Date finished: 25 June 1997
Logged by: C.D. Bartlett, B.A. Geologist
Drilled by: Chibougamau Diamond Drilling Ltd.
Core size: NQ (core stored at Lochalsh)

Total depth: 81.39 m

0.00-7.00 Drill Casing

7.00-7.15 GRANITE BOULDER

White and pink phaneritic, feldspar + qtz + biotite, few pieces, rubbly.

7.15-37.59 MAFIC METAVOLCANICS-ALTERED BASALT

Intermed. to fine grain size, med. grey to green, speckled appearance, calcite + qtz vug filling, few xcutting, thin veins. chlorite + epidote alt., pyrite fine grained <1%, few small accumulations. Not foliated.

@ 8.00 Increase pyrite + pyrhotite blebs 2-3%, white specks begin - Albite specks, H>knife, non-HCl reactive and also occur within crystal matrix.

@ 11.33 thin 1 cm orange chert vein with calcite, 5% pyrite + pyrhotite

@ 13.55-15.57 Lose extra white specks of feldspar.

@ 15.57 Occasional thin xcutting calcite veins with pyrite <5%, chlorite laths (alt. hornblende) increase and gain blue qtz blebs.

@ 17.27-20.15 Zones of fluid interaction, increase calcite and qtz veins, fracturing minor. Patches of silicified, light green, cherty qtz, veins are thicker and oblique at 19 m. pyrite + pyrhotite blebs up to 1cm in places, random throughout although tendency to occur in more silicified areas and blebs are surrounded by thin rind of calcite + qtz.

@ 20.15-24.18 Lose fracturing, maintain feldspar specks, slight foliation @ 35 deg., variation in size of late calcite + qtz fill. Variation in grain size, fine to coarse. Predominately coarse and phaneritic.

@ 24.18-25.31 Lose calcite and calcite + qtz veins.

@ 28.99-29.30 Thick qtz + calcite veins, some chlorite laths, horizontal to axis, pyrite + pyrhotite <1%.

@ 29.95-32.80 Lose coarse grained, white specks, aphanitic texture with few epidote + calcite veins, calcite + qtz + chlorite veins, thin and random.

@ 32.80 Regain feldspar specks, and qtz infill, slightly silicified in zones, weak foliation at 40 deg. defined by feldspar and chlorite laths. Trace pyrite, dissem.

37.59-39.51 SHEAR ZONE

40-50 deg., calcite specks and thin veins and chlorite all sheared along thin planes. Gradual shearing, most intense at 37.84m. One thick qtz + calcite vein with trace pyrite + pyrhotite.

39.51-81.39 MAFIC METAVOLCANICS-ALTERED BASALT

Fine grained aphanitic and massive basalt, intermed. to mafic comp., dark grey-green, few calcite blebs, trace pyrite. Crystal matrix consists of alt. hornblende laths to chlorite, white amorphous plag., and light greenish matrix, few qtz blebs but uncommon. White feldspar specks common and sometimes define weak foliation; few and intermittent calcite and qtz veins, minor ankerite towards end of hole.

@ 42.28-42.37 Silicified zone with green epidote clasts.

@ 42.61-42.91 Albitized zone, mod. to heavy foliation @ 25 deg., feldspar specks and calcite with minor qtz common in veins up to 1 cm thick. Pyrite + pyrhotite in few, thin veinlets.

@ 43.51-44.51 Albitized zone with feldspar flecks, as above.

@ 48.61-51.17 Albitized zone with thick calcite veins, @ 10-20 deg., large chlorite laths, trace to 2% pyrite + pyrhotite.

@ 51.17 Increase grain size to mod. size, near phaneritic. Greenish grey, with visible chlorite laths. Calcite veins @ 35-40 deg., few qtz + epidote zones along veins, alteration surrounding veins.

@ 55.30-56.75 Albite specks and thick qtz + epidote + calcite vein 6 cm wide, xcutting, trace of pyrite.

@ 57.54-57.74 Albitized zone with minor calcite + qtz veins @ 40 deg.

@ 57.74-59.37 Increase pyrhotite + pyrite to 1%, blebs. Basalt is more fine grained with few thin epidote + calcite veins. Crystal matrix is light to med. green with laths of chlorite (alt. hornblende) + plag, also white feldspar specks and qtz blebs along weak foliation. Trace to 1% pyrite blebs.

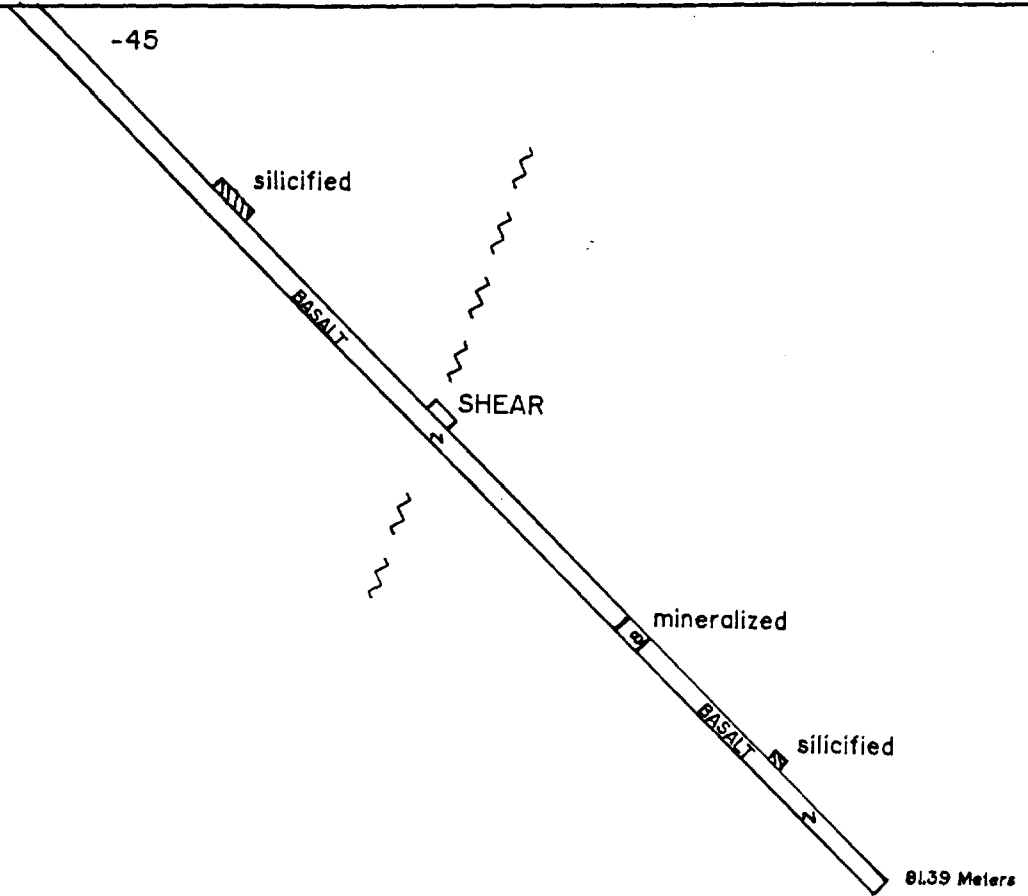
@ 70.85-71.30 Silicified zone, with bright green epidote + calcite + chlorite + feldspar specks, brecciated in places. No significant sulfides.

@ 72.28-72.54 White feldspar flecks, weak foliation.

81.39 E.O.H.

NORTH

SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

**WAWA PROPERTY
 PELE MOUNTAIN RES. INC.
 DIAMOND DRILL SECTION
 DRILLHOLE 97-22**



DIAMOND DRILLING LOG **W97-23**
Pele Mountain Resources - Wawa Project
Claim #: 1174695
Coordinates: L400W-0 80N North Grid
Azimuth: 180 deg.
Dip: -45 deg. @ 66m
Date started: 26 June 1997
Date finished: 26 June 1997
Logged by: C.D. Bartlett, B.A. Geologist
Drilled by: Chibougamau Diamond Drilling Ltd.
Core size: NQ (core stored at Lochalsh)

Total depth: 65.98 m

0-3.10 Drill Casing

3.10-10.44 MAFIC METAVOLCANICS-ALTERED BASALT

Fine to intermed. sized particles randomly oriented (not magmatic texture-very altered basalt or possibly crystal tuff), light to med. greyish green, chlorite and epidote alt., calcite + epidote veining throughout.

@ 8.35-8.45 Thick epidote + qtz + calcite vein.

@ 8.45-10.44 Massive mafic basalt, med to dark grey, green overcast, speckled appearance-fine, white crystals of plag visible, few xcutting calcite veins thin and random, core is rubbly and broken up last 10 cm.

10.44-19.78 ALTERED RHYOLITE

50-60 deg. banding, fine to intermed. grain size, sand sized particles easily visible in thicker bands. Few sedimentary features visible also, faint grading, but mostly finely layered to more massive zones of grey alt. rhyolite. Calcite veins and layers, few xcutting, high total calcite concentration. Few pyrite blebs, minor qtz clasts in thicker calcite layers. chlorite along xsection of core is crenulated.

@ 14.84 Intermittent, thick bands of qtz, opaque to semi-translucent, minor sulfides, <1% blebs, chlorite laths and few thin films of dark, fine grained clay particles (molybdenite?) define bedding planes (not graphite or magnetite). White, milky chert also occurs. Few thin pyrite + pyrrhotite veins with few late cubes, <1%, tend to be assoc. with lighter, calcite and qtz-chert rich layers.

19.78-20.55 ALTERED FELSIC PORPHYRY

Light grey to buff colored, many inclusion of dark chlorite laths and clay particles, crenulations visible on fracture surfaces. Few xcutting, thin qtz veins, semi-translucent. One very thick qtz vein @ 50 deg., opaque-semi-translucent, no sulfide assoc. pyrite + pyrrhotite fine grained veinlets and blebs, one 3 mm veinlet.

20.55-36.94 ALTERED RHYOLITE

First meter finely layered @ 50-55 deg., with qtz + alt. porphyry bands, few chlorite laths visible. Layers thicken to about 1 cm bands, fine grained, med. to light grey. pyrite + pyrrhotite <2% in veinlets and in thin xcutting qtz + calcite veins (pyrite as cubes

in veins).

@ 21.55-33.40 Massive volcanics (reworked intermed. to mafic) - Med. grey, homogeneous fine grained particles, with few zones with sand-sized particles, few thin interbeds of qtz + chert + calcite + fine grained pyrite. Also additional thin calcite + qtz veinlets, random and xcutting. pyrrhotite + pyrite as occasional blebs and thin, intermittent veinlets. Minor epidote alteration along calcite veins.

@ 28.25 Strongly layered @ 50-55 deg., with calcite + qtz layers, occasional bleb of pyrite. Mostly darker grey with thin, lighter grey interbeds. Not as striped of an appearance as above. Many calcite + qtz xcutting veins.

@ 33.40-33.50 Qtz + chert + chlorite + pyrite + pyrrhotite layer.

@ 35.57-36.00 Qtz rich layer with chlorite, minor calcite and blueish clay mineral in 1 cm band, few pyrite blebs.

@ 36.00-36.94 Massive volcanics, no laminae or bedding, very fine grained, light grey, few, random calcite with minor qtz veins.

36.94-38.80 ALTERED FELSIC PORPHYRY

Light to med. grey with small translucent qtz blebs, white opaque matrix between clasts and blebs, Fairly high chlorite and clays, crenulations visible along fracture planes. Few thin stringers of pyrrhotite + pyrite, fine grained veinlets, blebs and small particles scattered throughout.

38.80-40.60 INTERBEDDED PORPHYRY & BASALT

Massive, med. grey rhyolite to basaltic composition, fine grained, few interbeds of calcite + qtz, few blebs of pyrite + pyrrhotite.

@ 39.30-39.47 Porphyry, as above, light grey to buff with qtz blebs -leopard skin type texture.

@ 39.47-39.88 Basalt med. grey, fine grained and massive.

@ 39.88-40.60 Porphyry as above, light grey, opaque with qtz blebs.

40.60-43.73 MAFIC METAVOLCANICS- ALTERED BASALT

Finely layered, fine grained, light to med. grey, with few, thin chert + calcite + qtz interbeds. Few pyrite blebs <1%.

@ 42.28-42.38 Thick pyrrhotite + pyrite bands with chert + qtz + chlorite + calcite + pink chert, oxidized in places.

43.73-54.88 ALTERED PORPHYRY

Mostly massive, light grey and white chert, fairly homogeneous texture, with few dark sed. films - clays and chlorite rich, otherwise mica and clay poor. Chert semi-translucent in places. Qtz veins xcut and blebs are common. Few thin calcite veins.

@ 45.00 Spotted chert, marble like, lighter white and yellowish chert in darker, more translucent matrix. Very little calcite and few pyrite blebs. One thick band of brecciated, large clast, with thick dark clay and chlorite, crenulations visible on xsection. Trace amts pyrite as blebs.

@ 54.00 More massive, thinly laminated in places. White matrix around late qtz blebs. Few thin, lighter grey interbeds, no pyrite.

54.88-58.26 MAFIC METAVOLCANICS-ALTERED BASALT

Massive med. grey, fine to intermediate grain size, few thin layers include qtz + calcite. pyrrhotite + pyrite < 1%, fine and dissem., up to 2-3% locally. Few porphyry layers, <10cm thick.

58.26-59.70 ALTERED PORPHYRY

Few finer laminae first 15 cm 2 60 deg., then leopard skin texture with small qtz blebs, otherwise as described above.

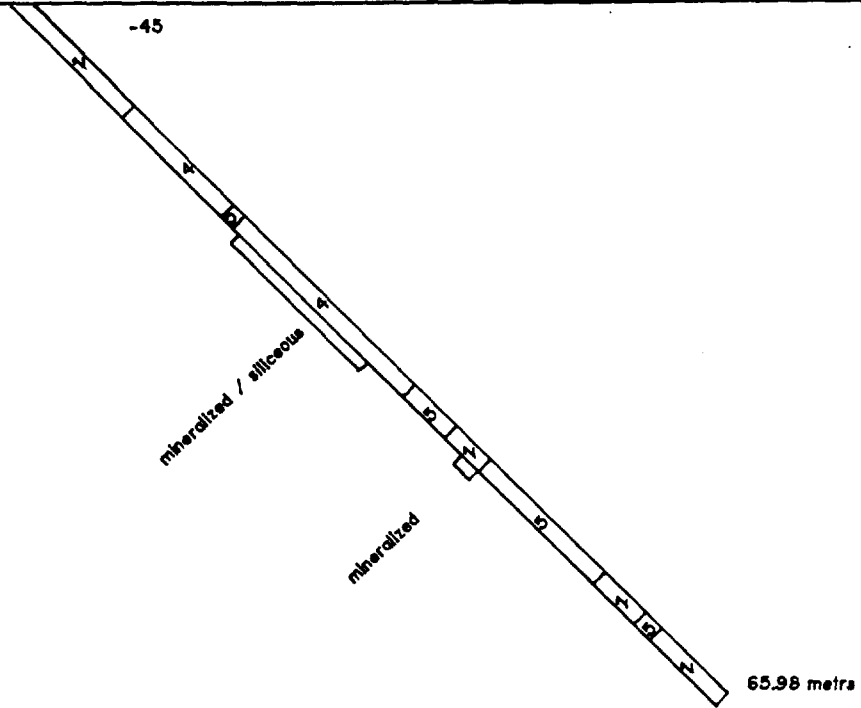
59.70-65.98 MAFIC METAVOLCANICS-ALTERED BASALT

Mostly massive, med. grey with sand sized mineral grains. Crenulations in chlorite on fracture planes. 2 thick epidote bearing veins, pyrite occurs as cubes and few larger blebs, < 1%.

65.98 E.O.H.

NORTH

SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION
DRILLHOLE 97-23



DIAMOND DRILLING LOG **W97-24**
Pele Mountain Resources - Wawa Project
Claim #: 1174695
Coordinates: L400W-125N North Grid
Azimuth: 180 deg.
Dip: -45 deg. @ 81m
Date started: 26 June 1997
Date finished: 26 June 1997
Logged by: C.D. Bartlett, B.A. Geologist
Drilled by: Chibougamau Diamond Drilling Ltd.
Core size: NQ (core stored at Lochalsh)

Total depth: 81.08m

0-3.86 Drill Casing

3.86-7.91 ALTERED RHYOLITE

Alternating finely layered bands of med. and light grey, fine to intermediate grain size, rhyolitic composition. Fracture planes show clay and micaceous alteration, core is very soft. Calcite + qtz interbeds occur as faint to thick bands, also alternating with more mafic compositions to give core a black and white striped appearance. Few, opaque qtz bands with very fine grained sulfides, pyrrhotite + pyrite otherwise in fine grained bands, veinlets, and disseminated, small cubes, <5%.

7.91-12.00 ALTERED PORPHYRY

Light to med. grey groundmass, spotty and marble-like in appearance, opaque to semi-translucent qtz, minor translucent qtz blebs throughout--leopard skin type texture. Clays and talc along fracture planes, and within porphyry are thin, dark films of altered ferromagnesian minerals which can define foliation planes @ 70 deg.. pyrite + pyrrhotite occasional cubes and fine grained particles scattered throughout, <1%.

@ 10.65-11.15 Distinctive alteration zone, orange and yellow alt. along acute calcite + qtz vein.

@ 11.65-12.00 SHEAR ZONE 70-80 deg., clay rich, core in slivers and very broken up.

12.00-17.10 ALTERED BASALT

Massive aphanitic to intermediate mineral size, intermediate to mafic composition, med. to light grey, occasional thin layers. pyrite 1-2%, diss.

17.10-18.36 ALTERED PORPHYRY

Off white to light grey opaque and very hard (H>5.5), bands defined by thin interlayers of altered basalts and small interlayers of calcite and chlorite + altered rhyolite (clays). Few pyrite blebs, <0.5%.

18.36-25.30 ALTERED RHYOLITE to BASALT

Thinly layered, light and dark grey layers, very fine-grained metavolcanics. pyrrhotite + pyrite occur in thin, fine grained bands throughout 2-3%. Calcite significant component within more felsic, white layers and qtz + chert clasts occur randomly.

@ 24.82-25.23 thick bands of pyrrhotite + pyrite @ 60 deg., minor qtz.

25.30-26.03 ALTERED PORPHYRY

Buff to off-white colored, massive with faint qtz banding intermittently, defines foliation planes. Oxidized qtz vein parallel to core axis and stylolitic type veinlets throughout. Trace to no pyrite.

26.03-26.50 INTERBEDDED PORPHYRY & RHYOLITE

Interlayered mafic to intermediate metavolcanics and porphyry as described above, both units very altered and bleached appearing, interbedded in apx. 10 - 15 cm intervals. pyrite + pyrrhotite veinlets, <1%.

26.5-27.44 ALTERED PORPHYRY

As described above, massive and off-white, few veinlets of qtz, no sulfides.

27.44-30.14 ALTERED RHYOLITE to BASALT

Thin porphyry interbeds continue <10 cm wide, opaque white. Otherwise mafic to intermediate metavolcanics as above, very fine grained, med. and lighter grey interbeds, thinly laminated in zones, few xcutting calcite + qtz veinlets. Pyrrhotite + pyrite occur in thin, discontinuous veinlets and small concentrations along bedding planes.

@ 29.34-29.44. Fe-oxidized, no sulfides visible, not magnetic.

30.14-30.79 ALTERED PORPHYRY

Sharp contact @ 35 deg., opaque off-white with greenish - epidote - cast; small translucent qtz blebs scattered throughout - leopard skin texture; few films of clay, sericite and chlorite along bedding planes, with trace amts pyrite.

30.79-37.00 ALTERED RHYOLITE to BASALT

Thinly layered @ 50-60 deg., mostly dark, fine grained interbedded metavolcanics with lighter grey bands. Smooth, soapy - talc rich -fracture surfaces with crenulations developed in chlorite and sericite. Zones of qtz + chert + calcite veins occur as cloudy, blebby layers common throughout rhyolite. pyrrhotite + pyrite in veinlets and small concentrations along foliation planes, few places are oxidized.

@ 35.78-35.90 Oxidized porphyry, off white to buff colored with Fe-staining, no sulfides visible, not magnetic.

37.00-81.08 ALTERED BASALT- Coarse Grained Flow

Increase in grain size from above to sand sized particles, gradational contact. Lose fine layers and basalt is mostly massive, med. grey, homogenous and only broken by

occasional calcite + qtz veins. Veins are random and intermittent. Fine grained pyrite is diss. and in small blebs. Rough fracture planes - not chlorite, talc or clay rich as in altered rhyolites.

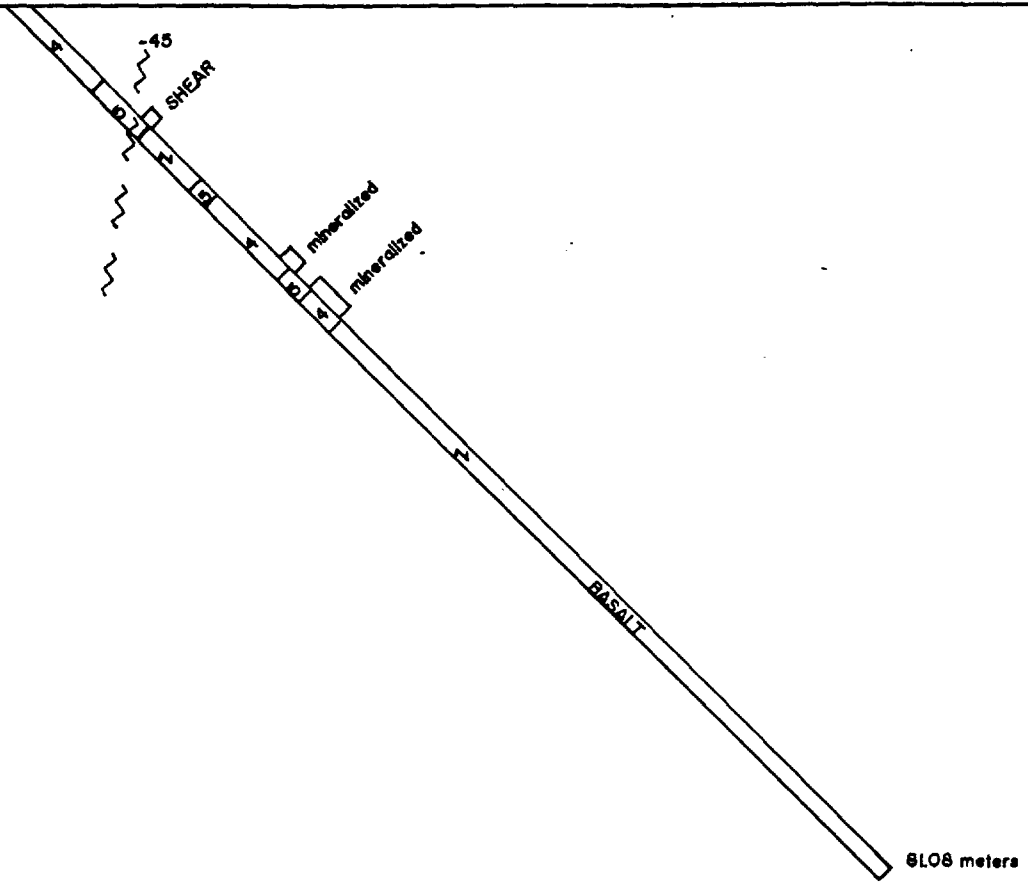
@ 39.80-39.95 Thick, clear calcite vein, no sulfides, minor qtz.

@ 75.00-81.08 Coarse grained flow - Gradual increase in grain size, color also gradually is greener than above, more epidote rich, indistinct contact. Coarser grained, looks much like altered crystal tuff or basalt, with laths of green hornblende (?) + feldspar (plag?) + lighter greenish matrix, no foliation or alignment of mineral grains. Fracture planes are rough. although deformation or brecciation is visible along veins which show possible slump features - soft sed. type deformation - at very small scale. epidote + calcite veins, and calcite blebs are common. Trace pyrhotite + pyrite blebs.

81.08 E.O.H.

NORTH

SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION
DRILLHOLE 97-24



DIAMOND DRILLING LOG W97-25

Pele Mountain Resources - Wawa Project

Claim #: 537498

Coordinates: 21m N of A zone, 62 m W from 80-2 L051E-027.5N North-east Grid

Azimuth: 180 deg.

Dip: -65 deg. @ 65

Date started: 27 June 1997

Date finished: 27 June 1997

Logged by: C.D. Bartlett, B.A. Geologist

Drilled by: Chibougamau Diamond Drilling Ltd.

Core size: NQ (core stored at Lochalsh)

Total depth: 65.86

0-2.65 Drill Casing

2.65-39.66 ALTERED RHYOLITE

Med. grey, strongly banded interlayered metavolcanics and calcite rich layers, dark grey to black, fine grained particles visible. Thin cloudy calcite + qtz layers, incompetent. Degree of foliation and shearing varies, shearing obvious with development of good slickensides and crenulations in places, otherwise very clay and sericite rich with phyllitic appearing fractures.

@ 4.10 Lighter grey in color, banding more defined.

@ 4.58-4.78

Thin porphyry layers, Fe-stained, light grey to green,

@ 5.28-5.58

very thinly banded at 40 deg. Talc and sericite rich.

@ 9.68-16.06 Shearing less than above, no talc, clays or slickensides developed. significant banding fades out, lose calcite and lighter grey layers, qtz and chert clasts common. Few xcutting calcite and qtz veins, <1cm thick, opposite foliation angle @ 40-50 deg.

@ 16.06 Increase qtz content, few thick 2-5mm bands of pyrite + pyrrhotite, fine to coarse crystals, layers offset by fracturing parallel to core axis. Clay rich and shear is more readily defined by smeared out, thin layers and indistinct mineral grains.

@ 16.94-17.64 Qtz vein, massive opaque white with calcite, black mineral along thin films - bio? Oblique and nearly parallel to axis.

@ 17.64-39.44 Heavily foliated and sheared @ 30-40 deg., light to med. grey and tan banding, lighter layers calcite rich, minor qtz. 5% pyrite + pyrrhotite in thick bands up to 0.5-1 cm thick, fine to coarse grained, 1-2% throughout unit in blebs and fine grains, few late cubes. Slickensides and crenulations are well developed and sericite is visible on fracture surfaces.

@ 18.51 3 cm qtz vein at opposite 50 deg. to shear with oxidized pyrite

@ 20.89 Qtz vein, brecciated zone, minor calcite with no sulfides.

@ 21.64-21.68 Qtz vein white and opaque, no sulfides.

@ 22.11-22.80 Particles visible, slightly less shear, individual bands are thicker and less calcite and qtz are present. Occasional xcutting calcite vein with minor qtz,

@ 23.23-23.39 Porphyry layer, opaque buff to greenish chert, with many blebs of semi-translucent qtz in incompetent layers within foliation.

@ 25.98-30.01 Alternating zones of less calcite and qtz interlayers, more homogeneous, less striped appearance, sand sized minerals visible. Where calcite + qtz appears, bands are white and cloudy, 40-50 deg. Slickensides and clay, sericite rich fractures maintained. Occasional pyrite bleb, <1%.

@ 31.11-31.53 Qtz vein with calcite, opaque white, parallel to axis, no sulfides.

@ 36.03-36.26 Qtz vein, bluish dark grey, metallic mineral, similar to tellurides, not magnetic - molybdenite?. Thick opaque white qtz with calcite, oblique to axis.

@ 38.50-38.92 Qtz vein with calcite, and fine, dark crystals of tourmaline.

39.44-39.66 Contact - very oxidized and rubbly, bright orange and yellow, very thin and heavy sheared layers at 60 deg. 39.61 Vesicle fill, at top of flow.

39.66-45.74 MAFIC METAVOLCANIC - BASALT amygdaloidal

Mafic, aphanitic to somewhat visible mineral grains, dark grey to greenish black with whitish feldspar, many thin calcite veins along foliation at 35-40 deg., parallel to shear (no slicks or clays to define shear). pyrite blebs common, <1%. Calcite amygd. fill, ubiquitous but varying in intensity. Alternating black and green zones, blotchy indistinct but slightly coarser grained, edges of pillows?

@ 39.85-40.32 Few muddy-clay rich zones with soft sed type slumping and calcite blebs.

45.74-52.80 MAFIC METAVOLCANIC - BASALT

Lose significant amygd., although few calcite blebs are present and thin xcutting veins 30 deg. Maintain aphanitic to intermed., dark green to black basalt. Slight foliation at 35-40 deg., though fracture surfaces are rough. Few small pyrite blebs, <1%.

52.80- 57.42 MAFIC METAVOLCANIC - COARSE GRAINED FLOW

Light epidote green matrix with larger chlorite and hornblende laths, white plag crystals. Minor calcite veining, sometimes with epidote, minor qtz. pyrite blebs and occasional concentration of late cubes, <1%.

57.42-59.08 MAFIC METAVOLCANIC - BASALT

Aphanitic, black-green basalt as above, with occasional thick calcite vein sometimes with epidote, blebs common with foliation at 35 deg. pyrite blebs and cubes, <1%.

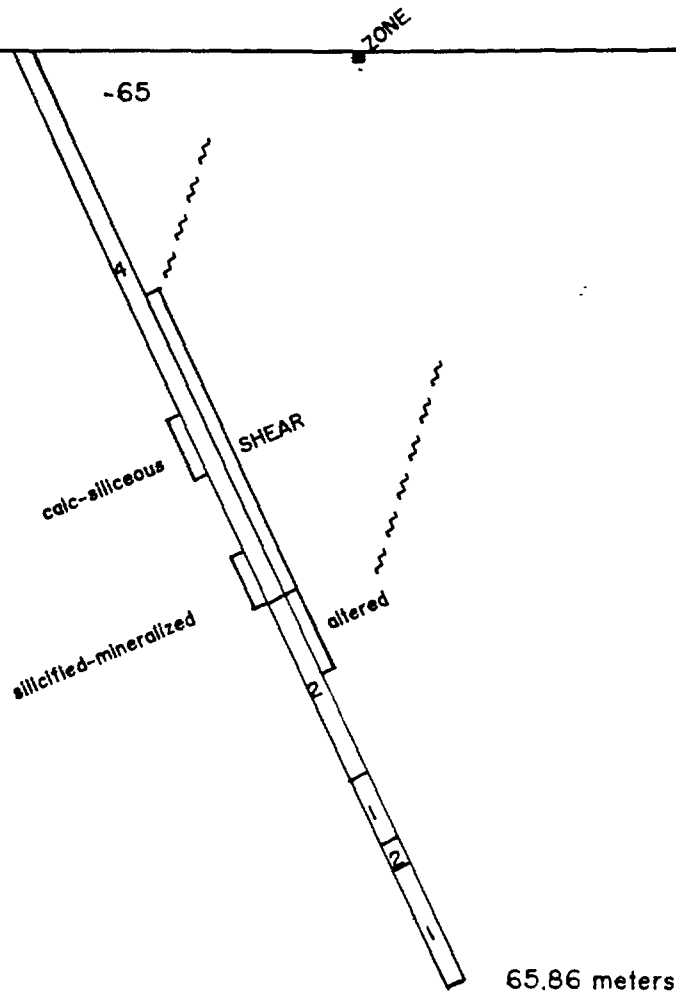
59.08-65.86 MAFIC METAVOLCANIC - COARSE GRAINED FLOW

Gradational change to intermed. grain size from aphanitic basalt and flow is not as coarse as above unit. Whit plag, black hornblende, and green altered ferromagnesian minerals easily visible, few pyrite concentrations and blebs <1%. Thin calcite veins, xcutting, sometimes bearing epidote.

65.86 E.O.H.

NORTH

SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

A ZONE
WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION
DRILLHOLE 97-25



DIAMOND DRILLING LOG **W97-26**

Pele Mountain Resources - Wawa Project

Claim #: ~~527498~~ 539000

Coordinates: L074E-058N Northeast Grid, 51.5N Zone, 39m W from 80-2

Azimuth: 180047N deg.

Dip: -55 deg @ 102 m

Date started: 28 June 1997

Date finished: 28 June 1997

Logged by: C.D. Bartlett, B.A. Geologist

Drilled by: Chibougamau Diamond Drilling Ltd.

Core size: NQ (core stored at Lochalsh)

Total depth: 102.20m

0-2.74 Drill Casing

2.74-30.39 MAFIC METAVOLCANICS - BASALT

Aphanitic to intermed. grain size, med. to dark grey-green, sand sized crystals visible in places: white plagioclase + altered green hornblende + pyroxene (2 shades green, darker laths plus lighter, amorphous epidote). Strong foliation @ 30-40 deg., chlorite laths (alt. hornblende) and phyllitic type texture on fracture surfaces. Many calcite veins along foliation @ 30-35 deg., and xcutting, sometimes with bright green epidote, minor qtz. Calcite blebs common and are amygd. fill in discrete zones. Trace to <1% pyrite as blebs.

@ 7.15-13.91 More massive zones appear clay like with massive bright green chlorite lenses and soft sed. type deformation around incompetent qtz + calcite veins. Associated pyrite as large, granular cubes. Foliation not as obvious, many pods of calcite + qtz + minor epidote with occasional. ankerite, brecciated margins with clasts of basalt within veins. Fracture surfaces not as smooth as above.

@ 11.45 Thick qtz vein + epidote + ankerite, no sulfides.

@ 12.05-13.45 Basalt deformed around chert clast with pyrite cubes.

@ 13.91-24.39 Coarser grained - Intermed sized crystals, easily visible but mineralogy is still somewhat indistinct (light and darker green with white feldspar). Few lenses of very fine grained, massive chlorite + calcite with en-eschelon micro-fractures (feathers). Trace to 1% pyrite in matrix with few, fairly large concentrations, up to 2mm. Small crenulations visible along core and in cross-section.

@ 15.28-15.48 Large qtz vein, semi-translucent to opaque white, with

@ 20.36-20.59 suspended fine grained, massive bright green chlorite.

@ 23.27-23.42 Minor pyrite.

@ 23.99-24.29

@ 24.39-28.37 Epidote and chert display soft sed. type deformation (pillow edges?). Basalt is fractured with calcite fracture fill, but is mostly massive, aphanitic, light to med. green matrix.

@ 24.79 Magnetite crystals, fine grained. Also large qtz pods with large, cubic pyrite concentrations <1%. Very little calcite.

30.39-33.55 SHEAR ZONE

Very fine grained, clay-like texture, thin bands of bright chlorite green smeared out and interlayered with darker green alt. ferromagnesian minerals. Few intermittent calcite layers with minor qtz lenses. few large pyrite cubes. 45-60 deg., predominately at 50 deg. Qtz rich veins form thicker, incompetent layers, basalt is folded around them. Slickensides and crenulations are well developed. pyrite is mostly confined to discrete layers with pyrrhotite, med. to coarse grained, occasionally oxidized and bright yellow (granular and not Au convincing). Also occurs as fine grained crystals in calcite pods and layers.

@ 31.43-31.48 Sulfide layers - med. to coarse pyrite + pyrrhotite in thin bands with calcite interlayered <1%. Thick, opaque white qtz vein at base - 31.48m.

@ 31.84-32.50 Thick qtz veins with slightly fractured basalt - swirly zones - qtz + pyrite along darker green layers, sometimes folded. Veins up to 18 cm thick.

@ 32.70-32.76 Opaque white qtz vein with large pyrite blebs.

33.55-40.17 MAFIC METAVOLCANICS - BASALT

Heavy foliation maintained @ 50 deg. but strong shear is lost, no slickensides but few crenulations visible. Individual minerals visible; and interlayers of thin calcite with minor qtz and fine grained pyrite are common, appears as fracture fill - xcutting and random. Amydg. calcite blebs

@ 34.95-35.05 Thick bands of fine to intermed grained pyrrhotite + pyrite in calcite + @ 37.10-37.16 chlorite veins <5%, 60 deg. from core axis.

@ 37.94-39.23 Brecciated zone, calcite fracture fill between large clasts of basalt.

@ 39.23-40.17 Heavily foliated basalt @ 50 deg. with visible minerals, blebby calcite as amygd., few thin layers, pyrite <1%.

40.17-70.60 ALTERED RHYOLITE

Thinly layered at mm scale, 50 deg., smooth clay, sericite and talc rich fracture surfaces. Layers are tan and light grey with slight greenish cast, very striped appearance, chert blebs are opaque white to grey, overall high silica content. Sand sized grains visible, possible feldspar minerals or mafics. Few thicker (up to 3mm) calcite + qtz layers, minor pyrite to 1%, blebs and cubes in thin veinlets, occasional thin lense of concentrated, fine grained pyrite.

@ 44.30 Gradation into more tan colored layers with calcite interlayers, very fine grained and smooth fracture surfaces - appears clay rich. Few large chert + qtz layers, incompetent, mostly smaller interbeds. pyrite concentrated in darker green veinlets.

@ 49.67 Larger grain size, visible minerals are black to dark brown, with few talc and sericite rich fracture zones. Thick zones of white, cloudy calcite + qtz @ 50 deg.

@ 66.84-66.88 Broken up, crumbly core, very talc and clay rich. Possible contact between sed and basalt flow beneath.

@ 66.77 Layers are slightly green, coarser grained, basaltic minerals discernible

and towards contact with underlying basalt grading in 5-10 cm bands is visible - microflows or reworked mafics (?). Less altered, no brownish clays but chlorite rich, qtz + calcite layers are thicker and more qtz rich than above, with higher % sulfide minerals, up to 5% locally. pyrite + pyrhotite otherwise 2-3%, dissem. and concentrated in more mafic layers.

@ 70.40-70.60 Porphyry appears cherty, siliceous zone, light green to buff colored, heavily foliated at 50 deg., sharp contacts.

70.60-102.20 MAFIC METAVOLCANICS - BASALT

Intermed. sized minerals visible, plag. and alt. ferromagnesian minerals - chlorite rich, although down hole becomes more massive and aphanitic in places, dark green to greenish black. Random thin calcite veins @ 50 deg., few xcutting and along microfractures, minor qtz. Calcite blebs also as amygd. fill, <2mm. Few large pyrite cubes and smaller concentrations of cubes random throughout first 15m, finer grained and more dissem. throughout basalt down hole, <1%. Cubes appear very late and recrystallized, no veinlets or blebs. Patchy, coarser grained areas defined by lighter green, epidote color - pillow edges?

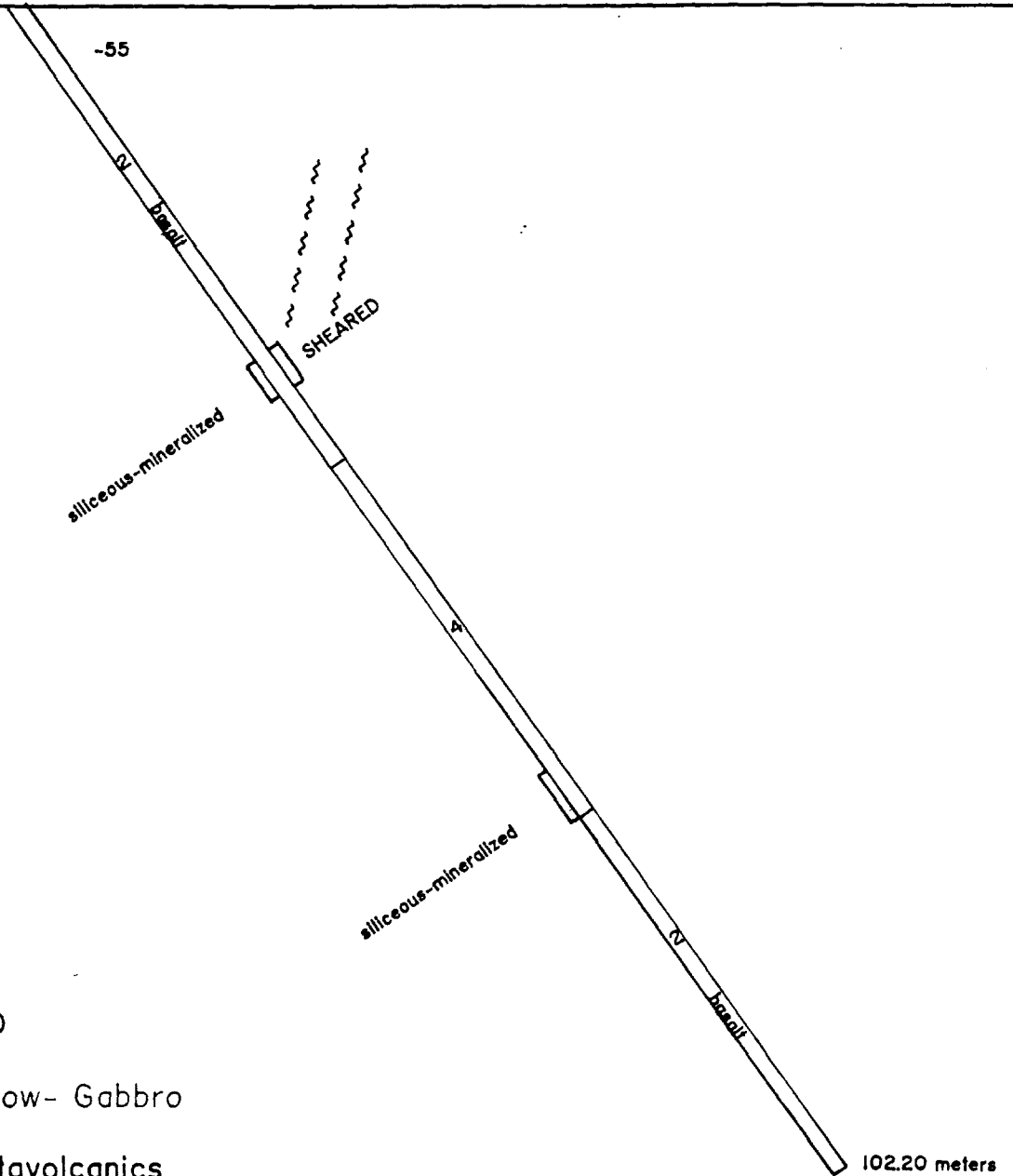
@ 92.54-92.59 Thick chert + epidote vein, no sulfides.

@ 97.00 Fairly massive to EOH, occasional calcite and minor qtz + ankerite + epidote veins xcutting randomly. No amygd fill and pyrite is finer grained and < 1%, as above. Non foliated, very rough, fresh fractures. Many calcite pods and veinlets have darker green rinds, en eschelon chlorite laths, like feathers.

102.20 E.O.H.

NORTH

SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

A ZONE
WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION
DRILLHOLE 97-26



DIAMOND DRILLING LOG **W97-27**

Pele Mountain Resources - Wawa Project

Claim #: ~~537408~~ 539888

Coordinates: 088E, 047N, 51.5 N Zone, 39 m West of 80-2

Azimuth: 180 deg.

Dip: -70 @ 150 m

Date started: 29 June 1997

Date finished: 29 June 1997

Logged by: C.D. Bartlett, B.A. Geologist

Drilled by: Chibougamau Diamond Drilling Ltd.

Core size: NQ (core stored at Lochalsh)

Total depth: 149.71

0-1.09 Drill Casing

1.09-25.70 MAFIC METAVOLCANICS - BASALT

Aphanitic to intermediate grains size, med. green to grey with chlorite and epidote alteration and plagioclase crystals are visible. Moderate to heavy shearing with chlorite on fracture surfaces well developed @ 10-20 deg. Calcite + minor quartz veins along foliation, occasional zone with amygdule fill. Few thick quartz veins with calcite and few pyrite blebs, opaque white and acute to core axis. Pyrite + pyrrhotite blebs common with minor, oxidized pyrite, 2% locally otherwise <1%.

@ 8.36-9.00 Tourmaline crystals visible, very small laths within foliation.

@ 18.49-21.00 Very splintered core, schistose with chlorite, few bleached, epidote rich zones, more massive.

@ 23.39-23.49 Calcite + ankerite vein, no sulfides.

25.70-29.00 MAFIC METAVOLCANICS - COARSE GRAINED FLOW

Intermediate grain size, easily visible white plagioclase and green altered ferromagnesian minerals. Chlorite crystals are visible and occur along calcite veins as rinds and feathery appearing laths. pyrite <1% fine grained with occasional small blebs and cubes. Heavy foliation 15 - 30 deg., predominately @ 20 deg. Bright rust red mineral present, hematite crystals. Opaque white quartz and calcite veins with occasional epidote, brecciated and swirly appearing in places, grain size decreases towards contact below.

29.00-54.53 MAFIC METAVOLCANICS - BASALT

Very green, chlorite rich aphanitic basalt with many calcite veins with chlorite rinds (selvedge - like) along shear and as small fracture fill within zones of autobrecciation. Heavy shearing @ 30-40 deg. and changes attitude after 37.5 m to 40-50 deg.

@ 32.20-33.92 Albitized zone, small white flecks aligned with foliation.

@ 35.66-37.46 Sulfide rich zone 5% pyrite + pyrrhotite in veinlets and large blebs and cubes. Occurs with more intense calcite veining.

@ 40.57-41.02 Qtz vein, opaque white with massive green chlorite and thin

sulfide veins, pyrrhotite + pyrite in bands, cubes common, 5-20%.

54.53-54.63 ALTERED PORPHYRY

Sharp contact @ 30-35 deg., greenish to light grey with small qtz blebs and foliation has soapy, talc and sericite rich fracture surfaces - foliation/shear parallel.

54.63-103.78 SHEARED RHYOLITE

Sharp contact @ 30-35 deg., light grey to tan striped layers with whiter calcite rich interlayers, shear developed at 30-35 deg. Few thin sulfide veinlets with fine grained pyrite + pyrrhotite <1%. Fractures are smooth and sericite rich but not much clay or talc developed. Layers are finer and core appears striped.

@ 61.40-62.83 Massive zone, less striped appearance although maintain calcite rich and tan interlayers. One 1cm thick qtz + calcite vein, no sulfides.

@ 62.83 Few, thick sulfide veins, pyrrhotite + pyrite in sheared, striped appearing rhyolite.

@ 68.57-69.12 Few thick ankerite bearing calcite veins, vuggy and Fe-stained, core is rubbly. Few scutting 0.5cm semi-translucent qtz veins with minor calcite, horizontal to core axis.

@ 73.32-73.96 Rhyolite becomes more massive, less interlayered.

@ 73.96-74.92 Opaque, white quartz vein with calcite + chlorite and tan colored alteration minerals - clays - few sulfides, <1/4%.

@ 82.17-82.25 Rusted zones surrounding 1cm thick calcite veins, weathered

@ 88.97-87.11 out. Fine grained clays developed and core is broken up,

@ 94.84-96.10 rubbly.

103.78-142.97 METAVOLCANICS-ALTERED BASALT to RHYOLITE

Heavily foliated @ 20 deg., mafic to intermed composition, aphanitic homogenous grey to greenish grey, chloritized, to finely interlayered, more rhyolitic compositions - tan and calcite rich, whitish layers, indistinct mineralogy. Pyrite in pods, associated with calcite pods, <1/4%.

@ 100.00-100.60 Rusted, Fe-stained fine grained and massive basalt.

@ 101.00-102.80 Sulfide rich layer, pyrite + pyrrhotite up to 10%, in intermittent pods and thick lenses.

@ 104.73-105.05 Amygdaloidal calcite fill, occasional stylolitic dark veins, random and scutting. Many qtz and calcite layers, incompetent and discontinuous

@ 108.92-109.62 Sulfides concentrated in thin, discontinuous veinlets, 2-3%, mostly pyrite. Swirly, tan colored and calcite layers, less massive and more intermediate composition than beginning of unit.

@ 110.34-110.39 Qtz + calcite + siderite, minor pyrite, opaque white vein.

@ 111.08 Increase grain size, individual minerals visible, grey to brownish colored matrix with white plag and green alteration minerals, chlorite - hornblende laths. Not as green and chlorite rich as usual coarser grained basalt, more intermediated composition.

@ 116.95-142.97 Interbedded calcite + qtz veins common, few xcutting, ankerite bearing veins and few qtz veins horizontal without sulfides. Shearing not as intense although strongly foliated, chloritic alteration, pyrite blebs common, often oxidized bright yellow.

@ 125.48-127.82 Sulfide rich layers, increase concentration to 2%, blebs and
@ 132.61-133.41 pods, fine grained pyrite + minor pyrhotite, up to 10% locally, oxidized pyrite common.

@ 133.98 Shearing less developed, qtz and calcite veins running in all directions, no preferred orientation. Few thick and massive chlorite zones, many thin, black stylolitic veins, zone of more intense calcite veining and fracture fill, autobrecciation of basalt.

@ 138.46-142.97 Thick white, opaque qtz veins, horizontal to parallel with foliation, chlorite massive to many laths visible along foliation.

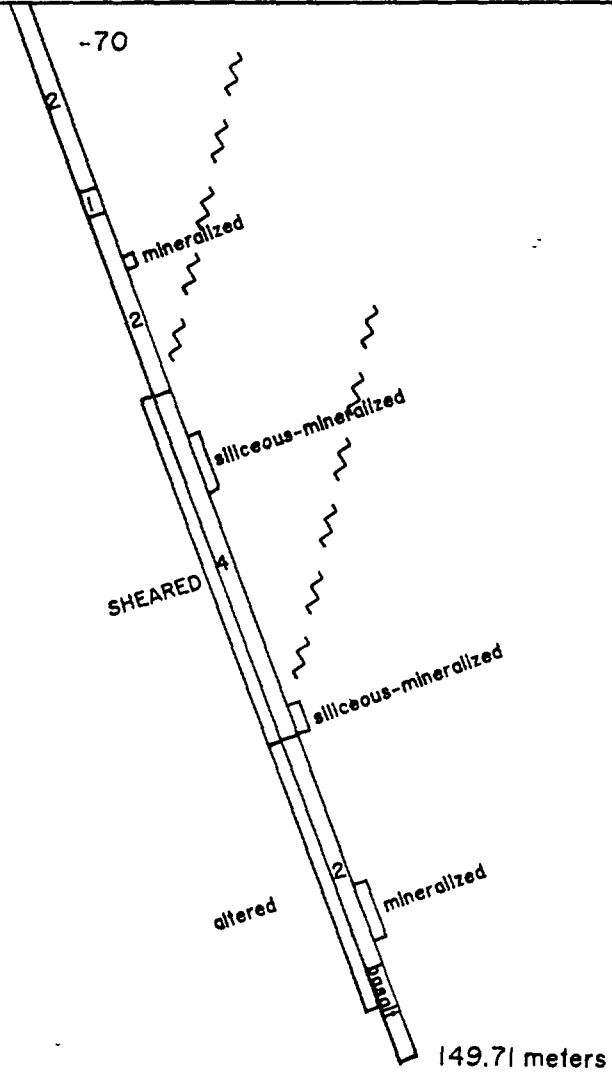
142.97-149.71 MAFIC METAVOLCANICS - BASALT

Aphanitic dark greenish-black, massive with epidote and chlorite alteration, few thin calcite veins and amygdule fill in discrete zones, minor qtz.

149.71 E.O.H.

NORTH

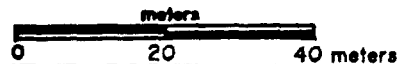
SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

A ZONE
WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION
DRILLHOLE 97-27



DIAMOND DRILLING LOG W97-28

Pele Mountain Resources - Wawa Project

Claim #: ~~537498~~ 539838

Coordinates: 125E, 057N, North east Grid, 53m N Zone, @ 80-2 site longitude

Azimuth: 180 deg.

Dip: -65 deg. @ 126 m

Date started: July 1 1997

Date finished: July 1 1997

Logged by: C.D. Bartlett, B.A. Geologist

Drilled by: Chibougamau Diamond Drilling Ltd.

Core size: NQ (core stored at Lochalsh)

Total depth: 125.57

0-1.07 Drill Casing

1.07-60.44 MAFIC METAVOLCANICS - BASALT

Aphanitic dark green-black, lighter bleached areas more epidote rich, slightly silicified (much harder) in small pockets. Moderate to heavy foliation with chlorite laths oriented @ 40 deg. Occasional calcite vein with minor qtz, xcutting, few pods with chlorite and minor epidote. Pyrite + minor pyrrhotite in small blebs and fine grained, disseminated, <1/4%.

@ 5.27-9.39 Coarser grained, few small calcite fracture fill where small degree of brecciation.

@ 9.39-13.51 Amygdaloidal calcite fill, small discrete bands, foliation @ 30-40 deg.

@ 18.10-18.14 Opaque white calcite + qtz veins, opposite 40 deg. to axis

@ 18.51-18.66 with ankerite and epidote, minor, thin pyrite veinlets.

@ 25.15 Basalt takes on more swirly appearance, with < 1cm thick calcite + minor qtz veins acute to axis, very chloritized.

@ 26.39-38.95 Maintain foliated basalt but angles steepen to 25 deg., many swirly zones but indistinct gradation. Few qtz pods and small, discontinuous veins. Calcite + qtz veins common and random, chlorite along edges of calcite pods (selvedges), spotty green carbonate specks, few small patches of alteration. Pyrite often within lighter green, bleached and epidote rich pockets, <1%.

@ 43.34-43.41 Calcite + dark grey qtz + pyrite + pyrrhotite, <5%.

@ 44.71-45.06 Semi-translucent greyish blue qtz with chlorite

@ 45.41-45.84 and mossy appearing, few pyrite flecks, <1/4%, minor

@ 48.06-48.11 calcite. Sharp contacts @ 45 deg.

@ 45.06-48.64 Albite specks, small white flecks along foliation, 35-40 deg., pyrite in few larger cubes, thin calcite pods and veinlets with chlorite rinds throughout.

60.44-96.29 ALTERED RHYOLITE

Shearing well developed and first 2 m are strongly banded. Med. to light grey and tan layers with calcite rich, whitish interlayers, few small pods of pyrite + minor pyrrhotite, <1/2%. Larger qtz veins 0.5 - 1 cm thick, semi-translucent grey to white qtz, brecciated and appears like Silica-fluid influx.

@ 64.00 More massive individual layers, although maintain interlayered compositions as above 40 deg. Lose significant shearing although still strongly foliated, clays, sericite and talc not developed but minerals still indistinct smeared bands.

@ 76.14-77.29 Fe-stained - hematite, vuggy and fractured, rubbly core. Xcutting qtz + calcite vein, opposite 40 deg. to core axis. Occasional pyrite bleb or small veinlet, <1%. Few cherty - Silica rich layers with minor calcite.

@ 77.29-84.92 Shearing well developed, rhyolite becomes more striped appearing and interlayered calcite rich, light grey to tan with sericite and some clays developed.

@ 77.95-78.36 Fe-stained, rusted zone surrounding calcite vein, fractured and weathered out.

@ 84.92-86.71 More calcite and qtz interlayers, very stripedk thinly banded with somewhat more homogenous, massive interlayers. Few pyrite veinlets and blebs intermittently, <1/4%.

@ 87.75-87.99 Fe-stained, rusted zone surrounding calcite vein, fractured and weathered out.

@ 95.80-96.02 Cherty layers before contact, more sulfide rich, <1% pyrite + pyrrhotite in small zones within shear, as pods and veinlets. 2 small rust haloes outside of qtz + calcite veins, xcutting at 40 deg., <0.5cm thick.

@ 96.02-96.21 Thick qtz vein, opaque white with minor calcite. Pale lime green sericite present. Few pyrite blebs and fine grained specks, oxidized in small pockets.

96.29-100.62 SHEARED RHYOLITE with QUARTZ VEINING

Very altered, sheared rhyolite @ 30-35 deg., qtz veins and clasts with calcite are pervasive throughout, brecciated, with interlayered stringers of rhyolite. Qtz is grey to bluish grey, semi-translucent. Pyrite + pyrrhotite tends to be in rhyolite layers, 2-5% with large recrystallized blebs, possible gold or oxidized pyrite within some of the sulfide rich layers.

100.62-101.75 ALTERED RHYOLITE

Lose qtz and rhyolite is more interlayered massive and thinly layered units as described above, calcite rich layers, tan to light grey; pyrite + pyrrhotite <1%.

101.75-104.55 SHEARED RHYOLITE with QUARTZ VEINING

Qtz rich unit less intense than above, major Si influx with minor calcite and 1-2% sulfides. Semi-translucent bluish grey qtz, brecciated with some thicker interlayers of

rhyolite.

104.55-110.30 ALTERED RHYOLITE

Banded rhyolite with interlayered light grey calcite layers, and tan clay layers, few qtz clasts within more felsic bands, not as banded appearance as above but shearing and foliation are maintained @ 30 deg. Few isolated sulfide concentrations, pyrite + pyrhotite in small blebs and pods. Rusty zone at contact, sharp @ 25 deg.

110.30-119.17 SHEARED RHYOLITE with QUARTZ VEINING

Qtz rich rhyolite with sulfides 1-3% locally, clay rich margins with very fine disseminated pyrite + pyrhotite, galena up to 2% very fine. Fairly low carbonate content.

119.17-121.93 MAFIC to INTERMEDIATE METAVOLCANICS - BASALT

Banded and slightly sheared at 25 deg., pods and interlayers of calcite + qtz, minor sulfides, pyrite + pyrhotite <1%. chloritized aphanitic, dark green with few very siliceous areas <10-20cm thick--pockets, gradation from tan and calcite rich layers to more massive, chlorite rich basalt.

121.93-122.17 ALTERED INTERMEDIATE PORPHYRY

Med. grey to green, slightly sheared and very altered pyrhotite porphyry, phenocrysts altered to chlorite laths visible along foliation planes. Crystal matrix is somewhat visible but mostly smeared out, indistinct mineral bands. No sulfides.

122.17-125.57 MAFIC METAVOLCANICS - BASALT

Massive, dark green to black, aphanitic, foliated @ 30 deg. especially towards contact with above pyrhotite porphyry. Recrystallized pyrite cubes up to 0.5 cm, few feathery chlorite and calcite veins and pods, minor and intermittent.

125.57 E.O.H.

NORTH

SOUTH

-65

CU
basalt

A

SHEAR ZONE

siliceous-mineralized

8.26 / 4.24

3.42 / 1.73

125.57m

LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

**WAWA PROPERTY
 PELE MOUNTAIN RES. INC.
 DIAMOND DRILL SECTION**

DRILLHOLE 97-28



DIAMOND DRILLING LOG **W97-29**

Pele Mountain Resources Inc. - Wawa Project

Claim# ~~537498~~ ~~539888~~

Location: 156E, 051N 53.0 m N zone & 37.0 m E of 80-2, Northeast Grid

Azimuth- 180°

Dip: -45°

Date Started- June 29, 1997

Date Finished- June 30, 1997

Drilled by- Chibougamau Diamond Drilling Ltd.

Core Size- NQ (stored at Wabatongushi Lodge, Lochalsh, Ontario)

Logged by- F.T. Archibald, B.Sc. Geologist

0-1.0 m- Casing, bedrock setup

1.0-9.25- MAFIC METAVOLCANIC INTRUSIVE (coarse grained gabbro)

medium grained, speckled appearance, dark green colour, highly chloritic, low pyrite-pyrrhotite content (-1/4% content)

1.0-1.80- slightly bleached

3.0-3.25- blocky and slightly carbonate rich

3.90-4.80- slight siliceous banding @ 45 degrees to core axis (to 1/2cm. thick)

9.25-10.35- MAFIC METAVOLCANIC FLOW (basalt)

fine grained, grey-green colour, massive

9.25-9.50- crenulated quartz bands (white and grey silica, coarse grained) @ 45 degrees to core axis

10.35-12.10- MAFIC METAVOLCANIC INTRUSIVE (coarse grained gabbro)

medium grained, speckled appearance, dark grey-green colour, highly chloritic, 1/4% pyrite-pyrrhotite content,

12.20-12.30- slightly siliceous, -1/4% pyrite-pyrrhotite-chalcopyrite

12.10-16.25- MAFIC METAVOLCANIC FLOW-basalt-

green-grey colour, slightly chloritic, odd localized section pyrite-pyrrhotite-magnetite (disseminated and -1/4% content)

14.85-15.0- grey-white sugary textured quartz, banded @ 50 degrees to core axis, 1/4% pyrite-pyrrhotite content

16.25-19.20- MAFIC METAVOLCANIC INTRUSIVE (coarse grained gabbro)

slightly bleached, dark green colour, chlorite rich, medium grained, equigranular, increase in epidote content

19.20-20.80- MAFIC METAVOLCANIC FLOW- basalt

fine grained, dark grey-green colour, massive

20.80-24.45-MAFIC METAVOLCANIC INTRUSIVE-(coarse grained gabbro)

medium grained, grey-green colour, massive- equigranular, equigranular

23.25-23.45- some silica bands @ 65 degrees to core axis , barren of sulphides

24.45-25.50-MAFIC METAVOLCANIC FLOW- basalt

fine grained, grey-green colour, massive

25.50-42.75- MAFIC METAVOLCANIC FLOW-(coarse grained gabbro)

massive, medium grained, equigranular, green-grey colour, increase in alteration and albitization with depth, slight siliceous banding @ 45 degrees to core axis, odd porphyritic section, slightly bleached

42.75-51.50- MAFIC METAVOLCANIC FLOW- (basalt)

fine grained, massive, drk grey-green colour

46.75-51.50- increase in silica fracture-filling to depth, banded @ 45 to 65 degrees to core axis

@ 46.75- 10 cm. silica seam, -1/4% disseminated pyrite content

51.50-82.50- FELSIC METAVOLCANIC FLOW-(rhyolite)

buff-beige colour, fine grained, banded @ 50-60 degrees to core axis, bleached in sections

51.50-52.90- SHEAR ZONE- banded @ 60 degrees to core axis, low silica banding, bleached, odd pyrite-pyrrhotite rich seam, 1/2% pyrite content

56.05-56.75- silica rich banding, odd speck pyrrhotite

56.75-66.05- increase in carbonate banding, odd seam pyrite-pyrrhotite (-1/4%)

60.80-66.05- SHEAR ZONE- banded @ 50 degrees to core axis

66.05-68.70- more massive with decrease in banding, low seam pyrite, carbonate rich

61.95-63.10- silica rich bands @ 55 degrees to core axis, low sulphide content

63.50-64.0- silica rich bands @ 55 degrees to core axis, low sulphide content

68.70-74.35- banded @ 50 degrees to core axis, silica-poor, carbonate rich bands

74.35-82.50- increase in silica content, decrease in carbonate content, slight increase in sulphides with depth

80.35-80.85- silica rich bands @ 60 degrees to core axis

81.0-81.30- silica rich bands @ 60 degrees to core axis

81.30-82.50- some silica rich bands in localized sections

82.50-83.20- QUARTZ PORPHYRY INTRUSIVE

fine quartz phenocrysts (anhedral) within buff colour matrix (fine grained), contacts sharp @ 60 degrees to core axis, high carbonate content

83.20-85.38- MINERALIZED ZONE

silica rich with crenulated bands, 1/2 to 4% disseminated and seam pyrite with fine grained galena-magnetite, grey-white sugary textured silica

85.38-85.80- Altered QUARTZ PORPHYRY INTRUSIVE

bleached, fine grained, massive, buff-beige colour

85.80-86.20- MINERALIZED ZONE

silica rich with pyrite-galena bands @ 40 degrees to core axis, 1/2-2% sulphide content on average (fine grained)

86.30-86.80- slightly bleached

86.20-87.35- Altered FELSIC METAVOLCANIC FLOW- rhyolite

fine grained, massive, buff colour (increasing mafics with depth)

86.20-86.30- high carbonate content

86.30-86.40- mud seam

86.40-87.25- fractured-broken

87.25-87.35- carbonate rich bands

87.35-93.40- MAFIC METAVOLCANIC FLOW- Amydaloidal basalt

fine grained, dark grey colour, massive with calcite filled vesicles to 1 cm. diameter

89.90-90.0- sand seam

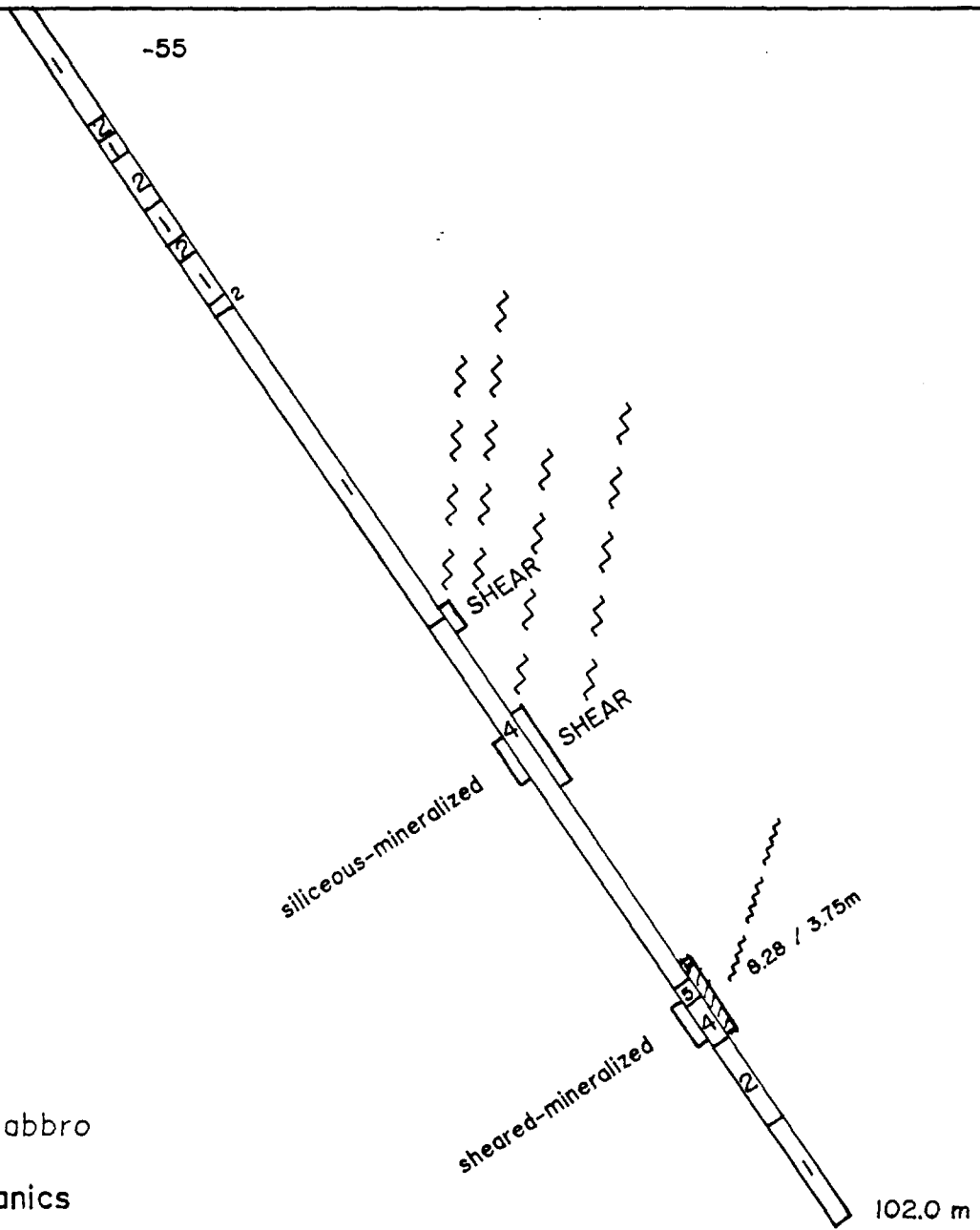
93.40-102.0- MAFIC VOLCANIC INTRUSIVE- (coarse grained gabbro)

medium grained, speckled appearance, massive-equigranular, dark grey colour

102.0- E.O.H.

NORTH

SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION
DRILLHOLE 97-29



DIAMOND DRILLING LOG W97-30

Pele Mountain Resources - Wawa Project

Claim #: ~~537498~~ 539899

Coordinates: 156E, 052N 52.5m N zone, 37.0 m. W of 80-2

Azimuth: 180°

Dip: -70 @ 150m

Date started: 2 July 1997

Date finished: 2 July 1997

Logged by: C.D. Bartlett, B.A. Geologist

Drilled by: Chibougamau Diamond Drilling Ltd.

Core size: NQ (core stored at Lochalsh)

Total depth: 150 m

0-2.09 Drill Casing

2.09-54.46 MAFIC METAVOLCANICS - BASALT

Aphanitic to intermediate grain size, dark green black, chloritized. Occasional calcite vein cutting and within moderate foliation @ 20 deg. Zones of slightly bleached, lighter green tend to be coarser grained and epidote rich. One thick qtz vein, opaque white with chlorite. Pyrite blebs are small and intermittent, <1/2%.

@ 4.48-11.92 Coarse grained flow - individual minerals become are visible, white plag, lighter green altered hornblende and pyroxenes to epidote and chlorite. Small amount of hematite and siderite with calcite veins. 10 cm zone with calcite amygdule fill. Py trace.

@ 17.09-21.10 Coarse grained flow - lighter epidote rich patches common. Occasional speck of py. Gradational contacts between flow types, foliation throughout, @ 25-30 deg. Thick zones with small brecciation and calcite fracture fill.

@ 40.62-40.75 Small metallic magnetite concentrations in few thin zones. Slightly bleached areas <5cm thick.

@ 48.00-48.50 Few thin veinlets of magnetite, with large py blebs <1/2%.

@ 49.60-50.14 Hematitic staining, few magnetite crystals in veinlets, <1/4%, py blebs and thin, discontinuous veinlets, <1%. Swirly green chlorite + calcite interlayers and small pods.

@ 54.15-54.46 More intense calcite veining, swirly appearance and small amount of brecciation. Pyrite + pyrrhotite <2-3% in veinlets and long blebs.

54.56-64.75 MAFIC METAVOLCANICS - COARSE GRAINED FLOW

Large grain size, plag and altered hornblende and pyroxenes easily visible. Calcite veins with epidote and few chloritized, darker green bands are common, 50 deg. foliation, not well developed. Few minor qtz pods - clasts - up to 3 cm in size, foliation deforms around clasts.

@ 58.09 Albitized zone - small white albite specks, slight foliation @ 40 deg.

@ 52.39-62.70 Qtz vein, opaque white with minor white calcite, no sulfides associated.

@ 64.16-64.75 More intense calcite and quartz veining, brecciation minor but with calcite fracture fill. Pyrite + pyrrhotite 0.5 - 1% in blebs and discontinuous veinlets.

64.75-71.99 MAFIC to INTERMEDIATE METAVOLCANICS - BASALT

Aphanitic, green-black basalt, with occasional thin calcite vein, some zones with calcite amygdule fill but these are smeared out along foliation @ 30 deg. Small scale autobrecciation with calcite fill. Pyrite fine grained and disseminated, trace amounts.

@ 70.50-71.90 Basalt becomes lighter grey in color, grades to more intermediate composition (no other evidence for bleaching). Striped appearance as with altered and sheared rhyolites. Calcite rich interlayers, lighter grey, banded with darker grey more massive basalt/andesite. No mineral grains visible, all smeared bands. Foliation well developed with minor shearing (no clays or talc, some sericite).

@ 71.17-71.99 Silica influx, cloudy veins with thin films of black to brown mineral, possibly altered tourmaline or ferromagnesian minerals, small scale brecciation.

71.99-72.28 ALTERED FELSIC PORPHYRY

Qtz vein within first 10 cm of bright, lime green altered porphyry, brecciation within vein and chlorite laths visible along strong foliation. Epidote, chlorite and sericite common, with small qtz blebs within.

72.28-125.90 FELSIC to INTERMEDIATE METAVOLCANICS - ALTERED ANDESITE to RHYOLITE

Thinly banded tan to buff-yellow to greys, very fine grained interlayers, with discontinuous, ellipsoidal clasts within bands are possibly lithic fragments all smeared out. Intensity of layering varies with more massive interlayers. Silica and sericite rich, brecciated in places. Calcite poor, py blebs are infrequent, trace amounts.

@ 75.87 Composition grades to more andesitic, lose significant silica content and minerals are darker greys and browns, interlayered. Few calcite layers with minor qtz blebs. Moderate shearing.

@ 76.70-76.80 Sulfides concentrated in thin bands, very fine grained with small cubes of pyrite, pyrite + pyrrhotite <5% total.

@ 78.00-78.85 Fe-stained, thinly layered with few thin horizontal qtz + calcite veins, no sulfides associated.

@ 78.85-125.90 More massive rhyolite to andestic composition, very striped appearance with interlayered tan and light grey, calcite rich layers interleaved with darker grey, more massive units.

- @ 84.24-84.60 Fe-stained, clay rich zones, rubbly and extend from thin calcite vein, fractured and weathered out. No sulfides visible.
- @ 84.88-85.02
- @ 87.00-87.16
- @ 105.00-105.90

@ 87.00-104.38 Zones with thin interlayers of brecciated qtz and calcite, low overall sulfides <1%, pyrite in thin veinlets, fairly coarse and recrystallized. Clays and talc well developed on fracture surfaces, many sections splintere and crumbly.

@ 110.64-125.49 Silica influx, semi-translucent grey to opaque white qtz + minor calcite, brecciated zones, with interlayered rhyolite with tan colored mineral specks, not as sheared as above though heavily foliated @ 20 deg. Pyrite in small cubes and pods, < 0.5%. Few xcutting, horizontal qtz + calcite veins, late white opaque qtz, with no sulfides. Alternating zones on scale of apx. 30 cm with altered rhyolitic units - no qtz flooding.

125.90-149.00 MASSIVE INTERMEDIATE to FELSIC METAVOLCANICS - ALTERED RHYOLITE

Altered light to med. grey, very fine grained and heavily foliated @ 30 deg., slight shear developed. Less qtz and calcite than adjacent units.

@ 131.05-131.90 Qtz flooding, brecciated with thin interlayered, tan rhyolitic layers, lose sulfides though trace py.

@ 133.30-138.00 Qtz flooding with higher sulfide concentration, pyrhotite + pyrite 2-3%, blebs and thin veinlets.

@ 138.00-139.00 More intense qtz + calcite veining with pyrhotite + pyrite, 2% and up to 4% locally, very fine grained galena present, <0.5%. Vein angles change often indicating folding of vein system.

149.00-149.54 ALTERED FELSIC PORPHYRY

Med. grey to light green groundmass, with chlorite and epidote laths visible along foliation, trace py. Sharp contacts @ 30 deg.

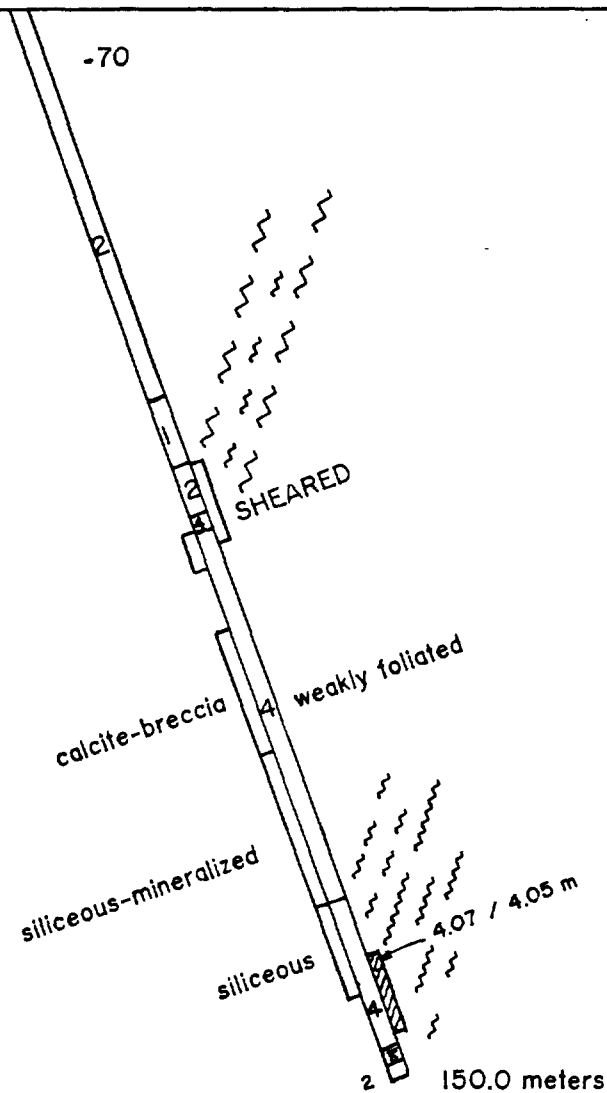
149.54-150.00 MAFIC METAVOLCANICS - BASALT

Massive dark green black aphanitic basalt with few fractures and calcite fill at contact. Trace py, otherwise homogenous black and massive.

150.00 E.O.H.

NORTH

SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

**WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION**

DRILLHOLE 97-30



DIAMOND DRILLING LOG W97-31

Pele Mountain Resources - Wawa Project

Claim #: 539888

Coordinates: 138E, 067N Northeast Grid 28.0 E 80-2, 69.0 m N of zone

Azimuth: 180°

Dip: -70°

Date started: 8 Aug 1997

Date finished: 10 Aug 1997

Logged by: C.D. Bartlett, B.A. Geologist

Drilled by: Chibougamau Diamond Drilling Ltd.

Core size: NQ (core stored at Lochalsh)

Total depth: 231m

0-1.30 Drill Casing

1.30-86.80 MAFIC METAVOLCANICS - BASALT

Intermediate, chloritized basalt with epidote and chlorite altered ferromagnesian minerals and plagioclase. Pyrite random, <.25%, occasional blebs, few specks of cpy. Heavily foliated @ 25-30°, many zones of more intense shearing defined by calcite + qtz + chlorite. Gradational increase in grain size common, small zones, easily defined by lighter, more epidote rich matrix. Phlogopite visible, defined by bronze colored, flakey and thin films within first meter.

@ 3.65-3.73 Massive white quartz vein, no associated sulfides.

@ 27.17-27.96 Aphanitic with few qtz blebs + clacte, maintain heavy foliation, minor pyrite.

@ 29.45-29.52 Calcite + ankerite + qtz + epidote vein, opaque with no sulfides.

@ 30.18-30.38 Calcite + qtz + dark chlorite rim, opaque white.

@ 33.30-33.70 Massive chlorite in opaque white qtz + calcite vein, no sulfides.

Foliation steepens to 10°.

@ 33.95-34.40 Increase pyrite blebs ≤1%, magnetite veinlets <1%.

@ 34.85 Foliation at 30°.

@ 35.30-35.45 Bleached, epidote rich with minor magnetite, few calcite + qtz veins.

@ 36.00-36.27 Bleached, epidote rich, micro-crenulations, trace pyrhotite.

@ 37.17-37.70 Bleached and steeper foliation to 10°. Minor qtz veins, few porphyroblasts very small.

@ 38.13-38.74 Bleached with 20 cm zone containing qtz porphyroblasts, foliation at 30°.

@ 38.74 Amygdular, aphanitic basalt, grades into intermediate grain size. Minor calcite + qtz veins.

@ 41.40-41.70 Patchy calcite + qtz + epidote, very spotty appearance.

@ 41.70-45.45 Mostly aphanitic with small zones of intermediate grain size corresponding with bleached areas, weak fracturing with calcite + qtz veins. Few amygdular zones.

@ 45.45 Grade to intermediate grain size, few pyrite blebs, <0.25%, foliation inconsistent: 10-30°.

@ 46.25-46.85 Amygdules, bleached and shear at 10°.

@ 47.65 Aphanitic, minor fracturing with veining, pyrite ≤ 0.5-0.25%.

@ 51.00-51.25 Qtz veins, semi-translucent to opaque with calcite + chlorite + epidote.

@ 54.00-54.56 Late white plagioclase laths, larger pyrite blebs $\leq 1\%$, and slightly deformed matrix possible indicating fluid interaction.

@ 56.00-57.00 Pyrite increases to $\leq 1\%$ blebs, few 1 cm calcite + qtz veins no associated sulfides.

@ 57.00 Many zones of more intense shearing and thin calcite + qtz veining, minor deformation and foliation angle changes, often associated pyrite up to 1%. (See sample intervals).

@ 63.00 Gradation to intermediate grain size. Foliation varies between 10-30°.

@ 65.60-66.80 Swirly, deformed, with $\leq 1\%$ pyrite blebs, few calcite veins with chlorite rims.

@ 69.00 Patchy bleached, epidote rich zones, inconsistent.

@ 73.50 Small magnetite crystals, $<1\%$.

@ 79.40-80.21 Plagioclase laths visible, small calcite + chlorite veins.

@ 81.25-82.45 Aphanitic, with semi-translucent qtz vein at contact.

@ 82.45-82.65 White plagioclase laths, calcite + qtz veining, pyrite $<0.5\%$, lost magnetite crystals.

@ 83.25-84.81 Increase in calcite veining, slightly bleached basalt, no associated pyrite.

@ 86.03-86.80 Rubbly core, very talc and clay rich.

86.80-101.19 MAFIC to INTERMEDIATE METAVOLCANICS - ANDESITE

Gradational color change to dark - med. grey, fine to intermediate grain size with thin whitish calcitic interlayers, thin interlayers of tan and light grey alteration.

@ 87.71-81.00 Cloudy calcite + qtz vein, pyrite $<0.5\%$, vuggy.

@ 88.20-88.42 Cloudy veining, pyrrhotite $\leq 2\%$, minor pyrite, begin brownish-tan flecks and interlayers.

@ 89.38-90.34 Opaque to semi-translucent qtz + calcite veining, sericite alteration and fine grained blue and tan mineral - clays? - bright green mica, possibly fuchsite by the color, minor pyrite <0.255 .

@ 90.57-90.90 As above.

@ 92.16-92.55 Calcite + ank vein, vuggy, minor qtz + sericite, $\leq 0.5\%$ pyrite.

@ 97.84-97.95 Semitranslucent qtz + calcite vein, one pod of pyrrhotite $\leq 0.5\%$.

@ 98.31-98.41 Autobrecciated with more intense veining and interlayered calcite, possibly compositional layering within volcanic flow.

@ 98.86-100.12 Shearing more significant, with cloudy calcite + qtz veining and blebs, pyrite 1-1.5%. One calcite + qtz vein with pyrrhotite + pyrite $\leq 1\%$ at beginning of zone.

101.19-103.00 SHEARED INTERMEDIATE to FELSIC MV - RHYOLITE

Med grey to darker, very striped and finely layered, intense shearing @ 20°. Common qtz + calcite veining with weak brecciation upon fluid influx, all within shear. Andesite is somewhat blebby, possibly indicating more phaneritic grain size originally. Alteration to chlorite + sericite + minor talc. Very satiny lustre, micro-crenulations visible.

@ 102.20 More intense veining and calcite + qtz interlayers, concentration of darker minerals give andesite a very wooden appearance, pyrite 0.5-1%.

103.00-103.45 ALTERED INTERMEDIATE METAVOLCANIC - ANDESITE

Sharp contacts @ 30°, (fine) phaneritic texture and not as finely layered and heavily sheared as andesite unit above though shear is well developed. Light green to buff in color with darker grey and white minerals visible. Very talc rich with minor calcite + qtz vein throughout. Pyrite concentrated at lower contact 1%.

103.45-108.32 SHEARED INTERMEDIATE to FELSIC MV - RHYOLITE

As above with common cloudy qtz + calcite interlayers, weak brecciation within shear, with tan to darker brown, fine grained bands. Pyrite $\leq 1\%$, late pods and blebs.

108.32-113.80 INTERMEDIATE METAVOLCANIC - ANDESITE to RHYOLITE

Massive rhyolite to andesite, dark grey without striped appearance and interlayers, few veins and pods of pyrite 0.5-1%, random. Few small zones with dark brown films of altered ferromagnesian minerals - ? - very fine grained. Few, minor zones with more intense veining and interlayered calcite + qtz.

113.80-121.17 SHEARED INTERMEDIATE to FELSIC MV - RHYOLITE to ANDESITE

Increase qtz + calcite, cloudy, veining and calcitic + qtz interlayers, with few thin pyrite veinlets first 20 m after contact. Otherwise very fine grained med to dark grey.

@ 115.88-116.05 Opaque white interlayers possibly albite with small semitranslucent qtz vein, minor calcite. One veinlet of pyrrhotite + pyrite, very fine grained.

@ 117.00-121.17 Albitized, very striped appearance with alternating 1 cm thick albitic ? opaque buff to white, $H > 5.5$, and dark greyish green andesite. Similar to surrounding units except on larger scale and without tan layers (not as felsic?). No sulfides visible.

121.17-128.70 SHEARED FELSIC MV - RHYOLITE

Finely layered, very striped brown to buff with dark and light grey layers, heavily sheared at 25°, common qtz veining and cloudy calcitic layers, minor brecciation. 1% pyrite associated with qtz veining/interlayers, occurs as small pods.

@ 125.05-125.65 Massive white qtz vein with bright chlorite + albite and thin films of black-brown altered minerals. Pyrite $\leq 1\%$ at contacts, trace cpy.

@ 125.85-125.95 Qtz veins as above.

@ 126.67-126.80

@ 127.08-127.20

@ 129.00-130.10 Late pyrite cubes, 1%, not visibly associated with veining.

128.70-138.86 INTERMEDIATE METAVOLCANIC - ANDESITE

Gradation to more andesitic composition indicated by massive, dark grey, intermediate grain size and not layered.

138.86-194.88 SHEARED INTERMEDIATE to FELSIC MV - RHYOLITE

Very striped and layered, sheared rhyolite @ 20° as above with many qtz + calcite cloudy veins indicating siliceous fluid influx, weak brecciation, angle to core axis very discontinuous and often acute. Pyrite 1% blebs. One 2 cm xcutting opaque qtz vein, no sulfides.

- @ 143.00-144.00 More massive rhyolite to andesite without qtz interlayers/veins.
- @ 145.52-147.34 Massive unit.
- @ 150.20-151.80 Tan specks, late but oriented with shear. 1% pyrite, very fine grained.
- @ 154.58-162.15 More massive unit without qtz influx.

@ 162.15-166.00 Si influx anew with <0.5% pyrite blebs. Rhyolite is lighter grey in color, grades to darker, more andesitic looking compositions away from significant fluid interactions.

@ 166.00-167.20 More massive interlaye with small tan flecks, dark to med. grey in color, intermediate grain size, moderate degree of shearing/hvy foliation.

@ 176.20-177.27 Increase qtz influx, weak brecciation, heavy shearing, pyrite 1-2%.

- @ 178.70-178.77 Massive, opaque white qtz veins with minor calcite, no associated sulfides.
- @ 178.86-179.42 Rhyolite is deformed between veins
- @ 179.88-180.37 pyrite 1%, many smaller qtz veins are present.

@ 180.67-180.86 Lamprophyre dyke, small injections of mafic, bio rich, phaneritic matrix with bio and larger chloritized phenocrysts, rounded. Plagioclase visible in matrix. Many smaller injections, <1cm thick down hole, all late and xcutting.

- @ 185.18-185.28 Opaque white qtz veins as above.
- @ 185.90-186.63
- 186.43-186.53 Lamprophyre
- @ 187.68-187.78 Lamprophyre
- @ 188.05-188.40 Lamprophyre
- @ 190.00-190.32 Opaque white qtz veins as above.
- @ 190.60-190.80
- @ 192.70-193.06

194.88-198.64 MINERALIZED ZONE

Sheared rhyolite host with intense qtz veining, semi-translucent grey to greyish blue with pyrite 3-5%, 1% pyrhotite and minor cpy. Minor calcite present and common sericitic alteration.

@ 196.70-197.74 Interlayer with less qtz veining, discontinuous so vein is at acute angle, also high qtz content, as in sheared, weakly brecciated units above, pyrite 1-2%.

@ 198.64-199.16 Interlayer with qtz veining, and many late white, opaque qtz veins. Relationship with mineralization and later white qtz veining is easily seen.

200.50-202.53 ALTERED FELSIC to INTERMEDIATE PORPHYRY

Bright lime green with whitish colored phenocrysts (porphyroblasts?) and larger chloritized laths, very rough fracture although all minerals are aligned with shear/foliation. No visible sulfides, minor thin veining. Very uneven and inconsistent lower contact, runs along core axis, subparallel.

202.53-231.00 MAFIC to INTERMEDIATE METAVOLCANIC - BASALT

Intermediate to fine grained dark to med grey and few zones with amygdules. Minor veining and occasional pyrite bleb <0.5%, up to 1% in darker fluid type fronts, minor associated silica (see sample intervals for specifics, these are common). Few coarse grained interlayeds and minor patches of autobrecciation. Minor chloritization.

@ 202.53-202.85 Sheared with 1-2% pyrite, heavy qtz + minor CO₃ first 35 cm. contact elongate and uneven. Sulfides concentrated along contact.

@ 207.11-207.18 Thick qtz + calcite vein, opaque but with late pyrite cubes, ≤1%. gades to darker greener and more basaltic composition.

@ 219.14-219.60 Qtz + calcite vein + agate like milky grey/blue and banded veinlet within, no sulfides associated.

231.00 E.O.H.

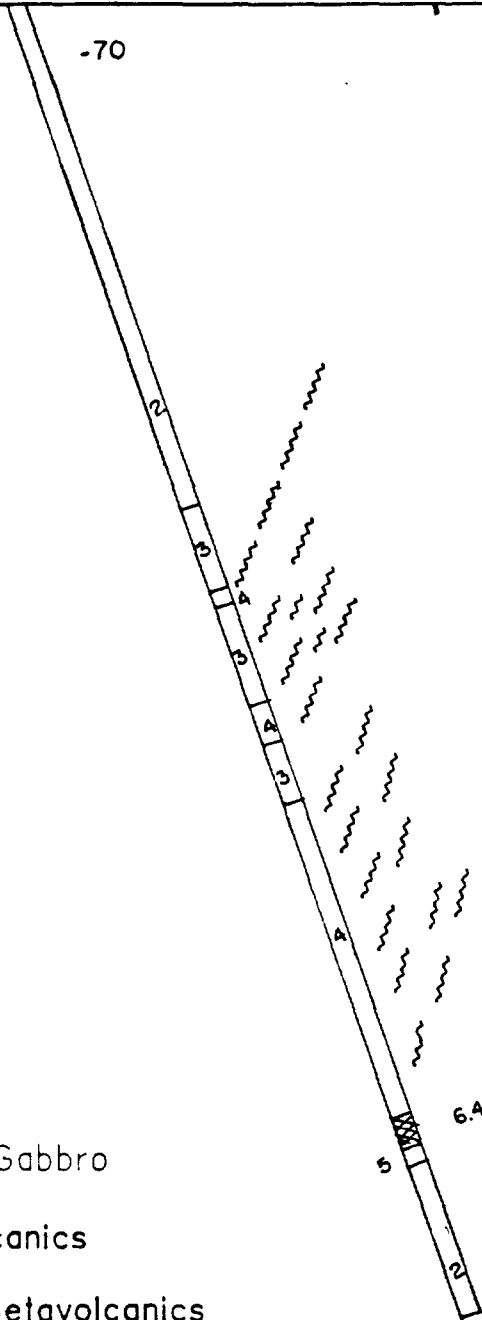
NORTH

SOUTH

-70

- LEGEND
- 1 Coarse Flow- Gabbro
 - 2 Mafic Metavolcanics
 - 3 Intermediate Metavolcanics
 - 4 Felsic Metavolcanics rhyolite
 - 5 Quartz-Feldspar Porphyry
 - 6 Agglomerate
 - 7 Quartz Vein
 - 8 Alteration / Mineralization

**WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION
DRILLHOLE 97-31**



DIAMOND DRILLING LOG W97-32

Pele Mountain Resources - Wawa Project

Claim #: 539888

Coordinates: 206E, 016N Northeast Grid, 55m E of 97-30/31 & 34 m N of zone

Azimuth: 180°

Dip: -70°

Date started: 12 Aug 1997

Date finished: 12 Aug 1997

Logged by: C.D. Bartlett, B.A. Geologist

Drilled by: Chibougamau Diamond Drilling Ltd.

Core size: NQ (core stored at Lochalsh)

Total depth: 132m

0-1.17 Drill Casing

1.17-3.58 MAFIC METAVOLCANICS - BASALT

Aphanitic, dark green to black, few vesicles with minimal qtz veining.

3.58-59.30 INTERMEDIATE to FELSIC METAVOLCANICS - RHYOLITE

Foliation at 30°, moderate degree of shearing, med. to light grey, fine to intermediate grain size, mostly massive rhyolite to andesite with few zones of qtz veining within shear. 2 zones with pyrhotite+pyrite $\leq 1\%$, otherwise 0.25-0.5%. Few rusted zones associated with late stage qtz + calcite vein, horizontal to core axis.

@ 33.70-44.75 Massive with little to no qtz, pyrite 0.25%.

@ 44.75-47.15 Qtz influx, weak brecciation, sericite + talc + chlorite alteration, very splintered core, pyrite 0.5-1%.

@ 51.57-52.57 Qtz veining as above with 1% pyrite.

@ 52.57-54.20 Thick banded white to buff interlayers with darker grey andesite, feldspar or compositional variations on larger scale, very little qtz. Correspond with same unit in hole # 97-31.

@ 55.10-55.90 Qtz influx, not very brecciated, pyrite 0.5-1%.

@ 55.90-59.30 Massive unit with little qtz veining, pyrite 0.5-1% locally as late, small cubes.

59.30-67.73 MAFIC TO INTERMEDIATE METAVOLCANICS - ANDESITE

Gradational color and textural change, andesite becomes darker and more mafic without brown and white interlayers common in rhyolitic unit. Shearing maintained although not as well developed, qtz veining is weak, minor calcite associated. Large late pyrite cubes, 0.5-1% locally.

67.73-72.10 INTERMEDIATE to FELSIC METAVOLCANICS - RHYOLITE

Med. to light grey, very layered and altered, significant sericite developed, minor chlorite + talc. Shearing well developed at 30°, pyrhotite + pyrite 5% locally, associated with qtz veining, very fine grained and in thick bands, otherwise $\leq 0.5\%$.

@ 71.40-72.10 Qtz influx, weak brecciation, very sheared, pyrite 1-2%.

72.10-75.00 FELSIC QUARTZ PORPHYRY

Grey semi-translucent qtz phenocrysts, well rounded and "milled", matrix buff to light green, very altered to sericite + talc, minor chlorite. Sheared at 30-40°, lower contact acute to parallel to core axis, rhyolite heavily mineralized with at least 20% pyrite + pyrhotite.

@ 73.95-75.00 Rusted zone, surrounding two 5 cm qtz veins with opaque, yellow green mineral - scheelite?

75.00-75.60 QUARTZ VEIN - MINERALIZED ZONE

Semi-translucent grey qtz vein with minor calcite, pyrhotite + pyrite in thick, vuggy bands, at least 20%, contacts roughly 50°.

75.60-80.23 MAFIC TO INTERMEDIATE METAVOLCANICS - ANDESITE

Massive med to dark grey, fine to intermediate grain size. First 10 cm adjacent to qtz vein mineralized pyrite + pyrhotite 5%, otherwise $< 0.5\%$, very few thin veins. Not sheared although heavily foliated at 40°, gradational color change to very dark grey, nonchloritic with rough fracture. Grading within discrete bands, coarse to fine up-hole.

80.23-80.43 QUARTZ VEIN - MINERALIZED ZONE

As above, semi-translucent grey qtz vein with minor calcite, pyrhotite + pyrite in thick, vuggy bands, at least 20%.

80.43-132.00 MAFIC METAVOLCANICS - BASALT

Intermediate to coarse flow, chlorite + epidote in matrix, occasional gradational coarser zones with easily visible white plagioclase. 2-3% pyrite in veins and pods, many large late cubes. Few areas are rotten and core is very broken up.

@ 84.00-85.65 Qtz veining and amygdules, pyrite 1% in veinlets.

@ 85.65-103.10 Massive basalt, lose veining and significant pyrite, $\leq 0.25-0.5\%$. Few patches of amygdules, one long epidote + qtz vein, many thin epidote veins, random. Minor hematite staining on few fracture planes.

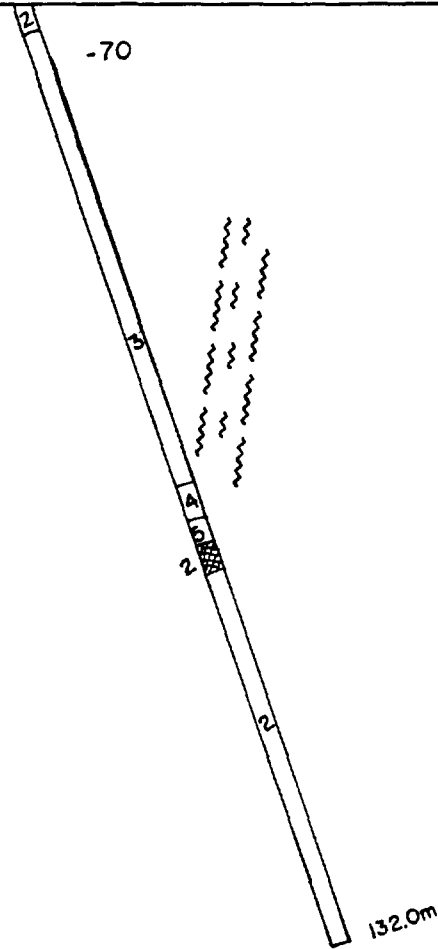
@ 103.10 Gradation to coarse grained flow. Easily visible white plagioclase + altered hornblende to chlorite in epidote + chlorite matrix. One long epidote + qtz vein, acute to core axis, otherwise minor thin veins.

@ 129.42-132.00 Small white feldspar flecks.

132.00 E.O.H.

NORTH

SOUTH



LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

**WAWA PROPERTY
PELE MOUNTAIN RES. INC.
DIAMOND DRILL SECTION
DRILLHOLE 97-32**



DIAMOND DRILLING LOG W97-33

Pele Mountain Resources - Wawa Project

Claim #: 539888

Coordinates: 210E, 037N Northeast Grid, 55 m N of zone, 55 m E of 97-29/30

Azimuth: 180°

Dip: -70°

Date started: 10 Aug 1997

Date finished: 11 Aug 1997

Logged by: C.D. Bartlett, B.A. Geologist

Drilled by: Chibougamau Diamond Drilling Ltd.

Core size: NQ (core stored at Lochalsh)

Total depth: 207.00m

0-0.45 Drill Casing

0.45-49.67 MAFIC METAVOLCANICS - BASALT

Aphanitic to intermediate grain size with coarser, bleached lighter green patches, slightly deformed, large vesicles filled with qtz + calcite common in small patches. One large qtz clast + epidote + chlorite, pyrite 0.5-1% in coarser zones. Heavy foliation with minor Fe-staining first 1m, at 30°, also first 1.5m small magnetite crystals ≤2%.

@ 15.00 Foliation more easily seen due to increase in calcite veins and amygdule fill, slight coarsening of grain size.

@ 18.00 Intermed grain size with white plagioclase easily visible and one 5cm opaque white qtz vein.

@ 21.20-21.60 Pyrite blebs within foliation 1-1.5%.

@ 21.60 Gradual change to coarse grained flow, fines down hole, no amygdules, weak qtz + calcite veining at very acute angles to core axis and minor autobrecciation, pyrite <0.5% late cubes.

@ 32.80-33.35 Qtz veining with minor CO₃, weak brecciation and very fine grained pyrite 1%.

@ 40.22-40.65 Albitized with late white specks throughout, few qtz + epidote veins with cubic pyrite 1-2%, minor tourmaline + ankerite. Down hole basalt takes on a very mottled appearance though not visibly associated with any veining.

49.67-84.65 INTERMEDIATE to FELSIC METAVOLCANICS - RHYOLITE

Gradational color changes from med to lighter grey, also variation in qtz + calcite veining indicating fluctuations in siliceous fluid influx. Lighter brown and grey layered rhyolite, very altered and shear well developed at 30°. Small patches of Fe-staining, sericite and chlorite common, pyrite <0.5%.

@ 43.97-44.07

Opaque to semi-translucent white qtz vein, minor calcite, no sulfides associated. Chlorite + epidote present.

@ 45.66-47.76

@ 47.10-47.26

@ 53.70-55.30

Qtz influx, rhyolite is very light in color - bleached. Minor pyrrhotite with <1% pyrite.

@ 56.25-57.00

@ 57.70-67.70 Qtz interlayers common separated by more massive units.
@ 71.50 Massive, med. grey to light grey layers without definite tan and CO₃ rich layers, few thin cutting veins.

@ 70.10-70.60 Rusted zones with CO₃ + qtz.

@ 73.65-74.00

@ 75.13-75.70

@ 75.78-76.75 No core.

@ 76.75-78.20 Rusted zone with clays, core is very broken up.

@ 82.05-84.73 Qtz veining with 1% pyrite.

84.65-84.85 ALTERED FELSIC PORPHYRY

Buff to light lime green with larger chlorite laths, very rough fracture, no sulfides visible. Rusted lower contact.

84.85-101.61 INTERMEDIATE to FELSIC METAVOLCANICS - RHYOLITE

As above, med to lighter grey, qtz + calcite veining indicating variations in siliceous fluid influx. Lighter brown and grey layered rhyolite, very altered and shear well developed at 30°. Small patches of Fe-staining, sericite and chlorite common, pyrite <0.5%.

@ 84.93-89.85 Weak qtz veining, fairly massive rhyolite.

@ 89.85-90.10 Rusted zone, no visible sulfides, lower contact small calcite vein.

90.10-101.61 MINERALIZED ZONE

@ 90.10-92.00 Siliceous fluid influx with 2-3% pyrite + pyrrhotite, very fine grained and adjacent with intermittent qtz veins, heavy shear t 30°.

@ 92.00-92.45 Rusted, shattered with clays and talc well developed.

@ 93.45-95.45 Fairly massive rhyolite, lose heavy qtz veining, though few minor veins with 0.5-1% pyrite, small cubes. Gradational lightening in color, bleached or compositional change.

@ 95.45-96.36 Qtz veining with 2-3% pyrite, very fine grained.

@ 100.35 -101.61 Thinly layered with very striped appearance, tan and darker brown films present, pyrite 2-3%.

101.61-102.92 FELSIC QUARTZ PORPHYRY

Light green sericitic + chloritic alteration, pyrite 1% fine grained with large variation in phenocryst size, shear continued and phenos are rounded, appearing "milled".

102.92-104.67 INTERMEDIATE to FELSIC METAVOLCANICS - RHYOLITE - Sheared

As above with pyrite 1%, significant qtz influx, weak brecciation.

104.67-107.45 INTERMEDIATE to FELSIC METAVOLCANICS - RHYOLITE

Lose qtz veining, rhyolite is more massive and med grey, darkening down hole towards contact. Shear is maintained although not as intense.

@ 106.00 Minor brecciation and agate-like fracture fill - milky grey blue, banded fill.

107.45-167.39 MAFIC METAVOLCANICS - BASALT

Sharp contact at 30°, dark green-black aphanitic basalt, shear not well developed although moderately foliated. Thin qtz veining and amygdules common, pyrite varies, 1-2% locally associated with veining, otherwise 1% late cubes and veinlets.

@ 115.20 Gradual coarsening to intermed to coarse grain size, pyrite 0.25-0.5%, amygdular.

@ 124.80-126.62 Coarse grained flow, pyrite 0.5% at contacts.

@ 126.62-135.00 Aphanitic, lose significant amygdules, minor veining with few xcutting, horizontal semi-translucent qtz veins, no sulfides.

@ 135.00-138.00 Coarse grained flow, amygdular, qtz vein at lower contact, minor calcite.

@ 138.50-153.00 Aphanitic with gradual coarsening and amygdules at 139.00m, few qtz veins with local pyrite 1%.

@ 153.00-158.50 Intermed to coarse grained, amygdular.

@ 158.50-165.00 Aphanitic with white albite specks first meter, few qtz veins with minor calcite, patches of amygdules.

@ 165.00 Gradation to intermediate grain size, pyrite 1% locally.

167.39-168.75 INTERMEDIATE to MAFIC METAVOLCANICS - ANDESITE

Sharp contact at 30°, medium grey fine to intermed. grain size with very few thin and random veins. No visible sulfides.

168.75-207.00 MAFIC METAVOLCANICS - BASALT

Aphanitic to intermed dark green to black basalt with few thin veins, pyrite 0.5%. Heavy to moderate foliation at 40-50°.

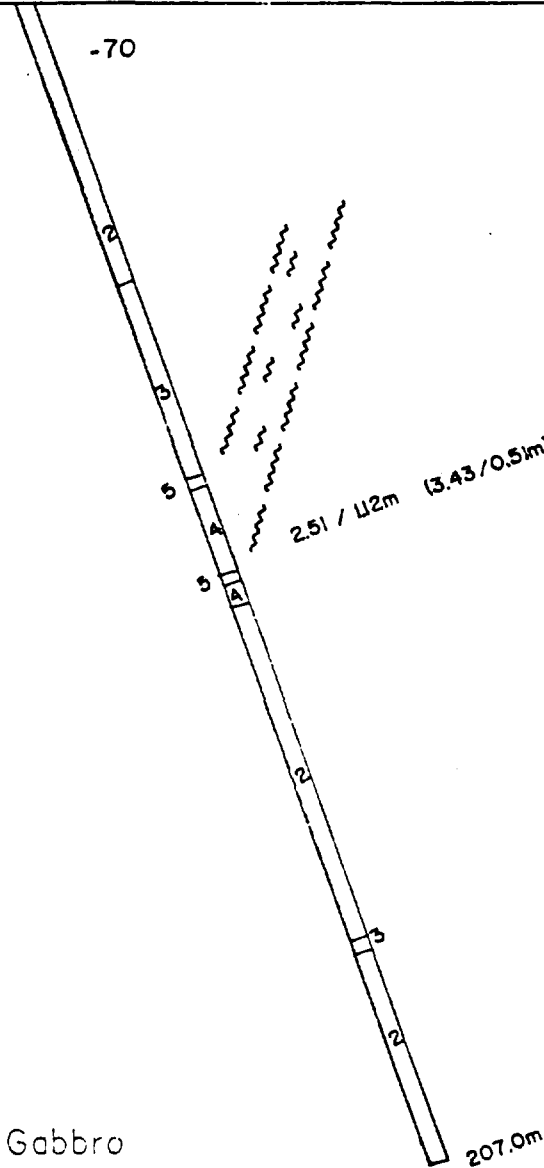
@ 179.46-181.23 Silicified, bleached, slightly mottled with sharp contacts.

- @ 177.57-177.72 LAMPROPHYRE DYKES, dark black, bio rich matrix with
@ 178.06-178.14 slight reddish cast, larger rounded chlorite phenocrysts.
@ 179.36-179.46 Sharp contacts at 50°
@ 180.04-180.10
@ 180.16-180.23
@ 180.40-180.51 also brecciated with qtz + calcite veining.
@ 181.83-182.15
- @ 184.52 Magnetite in small qtz vein.
@ 190.84-190.96 Calcite + ankerite + qtz vein, 1% pyrite, 30°
@ 196.82-197.32 Patchy altered zone with calcite, minor qtz, pyrite 0.25-0.5%,
locally up to 1%, very fine grained.
- @ 202.25-203.65 Silicified, milky blue grey with random pyrite blebs, <0.5%.

207.00 E.O.H.

NORTH

SOUTH

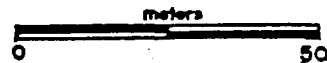


LEGEND

- 1 Coarse Flow- Gabbro
- 2 Mafic Metavolcanics
- 3 Intermediate Metavolcanics
- 4 Felsic Metavolcanics rhyolite
- 5 Quartz-Feldspar Porphyry
- 6 Agglomerate
- 7 Quartz Vein
- 8 Alteration / Mineralization

**WAWA PROPERTY
 PELE MOUNTAIN RES. INC.
 DIAMOND DRILL SECTION**

DRILLHOLE 97-33



Diamond Drill Log **W97-34**
Pele Mountain Resources-Wawa Project
Claim #: **539887**
Coordinates: 10m E of 97-29/30, 37m N of 97-30, North-east grid
Azimuth: **180**
Dip: -70 deg
Date Started: Sept. 09, Sept. 25/97
Date Finished: Sept. 11, Sept. 27/97
Logged by: Spencer Vatcher, B. Sc. Geologist
Drilled by: Chibougamau Diamond Drilling Ltd.
Core Size: NQ (core stored at Lochalsh)

Total Depth: 371.42m

0-2.64 Drill Casing

2.64-9.84 Mafic Metavolcanics (Basalt)

Fine to medium grained, grey-green in colour, sand size crystals visible in places. Very weak foliation, slightly more developed in areas @ 30-40 deg. stretched chlorite and calcite grains. Many calcite and quartz-calcite veins @ 30-50 deg. and xcutting, calcite also occurs as amygdal fillings. Trace to <1% sulfides, pyrite +/- pyrrhotite

- @ 2.64-3.24 more coarse grained zone within broken core, bottom of zone in contact with a diorite dike
- @ 3.24-3.43 small diorite/qtz diorite dike, med. grained, dark grey in colour, mottled texture, sharp contacts at top and bottom @ 65-70 deg to core axis.
- @ 4.41-4.98 trace-1% py stringers within basalt
- @ 5.18 4 cm opaque white quartz vein xcutting c.a., no sulfides
- @ 7.23-
@ 7.41 20 cm calcite veins @ 45 deg with moderate chlorite
- @ 8.35-9.74 slightly coarser grained

9.84-10.10 Shear Zone

Alot of calcite veinlets (less than 5 cm wide) @ 40-50 deg. to c.a., moderately chloritized at base with few flecks of pyrite.

10.10-24.38 Mafic Metavolcanic (Basalt)

Fine -medium grained, grey-green in colour, no distinct foliation

- @ 11.20-11.40 semi-translucent to opaque white quartz vein with no mineralization.

@ 11.40-11.60	small light green epidote alteration within chlorite+calcite veinlet
@ 11.60-11.91	trace pyrite
@ 11.91-12.04	moderately sheared and foliated chlorite rich zone with quartz vein (4 cm) @40 deg.
@ 12.16-12.2	semi opaque-translucent white quartz/calcite vein @85 deg to c.a.
@ 12.40-13.46	weak to moderate foliation of calcite, quartz veins and chlorite blebs @35-40 deg. to c.a.
@ 13.80 @ 14.20	qtz/calcite veins @ 20-40 deg to c.a. no mineralization
@ 14.60-14.67	patch of dark green chlorite with calcite along edges
@ 16.90-16.97	quartz/calcite vein @35 deg to c.a., quartz is a dull rose colour in middle, crystalline, no mineralization visible.
@ 17.98-18.27	series of calcite veinlets (<1 cm wide) in moderately foliated zone @35-40 deg. c.a.
@ 19.90-21.81 @ 21.43-21.93	tr.-1% pyrite (cubic and disseminated)
@ 23.86-24.03	opaque to translucent quartz vein with calcite @70 deg to c.a., containing up to 3 cm fragments of sheared basalt and small siliceous cherty frags, chloritized along lower contact, trace -0.5% pyrite, chalcopyrite and pyrrhotite.

24.38-30.25 Shear Zone

Basalt becomes abruptly more foliated, increasing toward middle, aphanitic to fine grained with light green to yellow alteration zones (sericite?). Deformation occurs as deformed "wispy" bands around qtz-calcite veins @ 40-50 deg. Within shear, mineralization occurs as pyrrhotite, pyrite and chalcopyrite, 1-2% as stringers and individual grains.

@ 24.38-24.41	sulphide bands of pyrrhotite, cpy and pyrite , 1-2%, in calcite veins.
@ 25.08-25.11	translucent to white quartz calcite vein @70 deg with chlorite at top and base.
@ 25.78-27.74	abundant calcite veining, strongly foliated @ 40-50 deg, trace-0.5% pyrite

30.25-46.05 Mafic Metavolcanic (Basalt)

Aphanitic to fine grained, locally very weakly foliated but mostly massive. Thin calcite veinlets throughout @ 40-50 deg and xcutting

@30.25-31.19 calcite veining with trace-0.5% pyrrhotite +/- chalcopyrite

@34.20 up to 2.5 cm wide quartz-calcite veining @ 25 deg.
@35.70

@39.87-40.44 weakly to moderately foliated basalt with epidote alteration along calcite veinlets, showing kink folding and also within groundmass.

46.05-57.76 Silicified Mafic Metavolcanic (Basalt)

Light green to tan in colour, epidote alteration occurs within groundmass and along calcite veins and stringers, shows some soft sediment deformation.

@ 46.46-46.59 quartz-calcite vein within tiny patches of epidote with trace pyrite. Deformation in and around vein.

@ 48.25-49.05 quartz calcite vein with light green to tan epidote and sericite altered fragments. chlorite lenses present and everything is moderately deformed. Vein also contains a rose-pink coloured xstalline mineral showing "zoning" or "growth rings". Upper contact @ 45 deg, lower contact @ 30 deg.

@ 53.60-54.15 slightly more coarse grained and chloritized with epidote alteration in quartz-calcite veins, xcutting., 0.5%-1% pyrite and pyrrhotite

57.76-114.40 Mafic Metavolcanic (Amygdaloidal Basalt)

Softer and more chloritized with up to 0.5 cm calcite amygdals, fine grained and weakly foliated @ 20-30 deg. Occasional traces of pyrite and chalcopyrite grains.

@ 58.60-58.95 Zone of slightly more deformation, soft sediment type, with <1.5 cm wide quartz-calcite veinlets.

@62.0-62.70 0.5-1% pyrite and pyrrhotite in groundmass and along calcite veinlets.

@63.97-67.51 Deformation zone within quartz-calcite veins, clear to translucent quartz and calcite veining xcutting core at low to high angles. Veins contain up to 10 cm wide fragments of basalt that are moderately to strongly chloritized and deformed, epidote alteration.

@66.09-67.33 quartz-calcite vein showing rose-pink coloured xstalline section and cherty fragments, trace pyrite

- @ 79.37-79.67 fracture zone consisting of rubbly core, <5 cm across.
- @ 99.26-100.80 highly sheared and fractured basalt, strongly chloritized and very soft, minor quartz at 100.60
- @ 100.10-100.26 section of missing core, marked "LIME" by drillers and discarded
- @ 109.88-110.75 quartz-calcite vein @80-85 deg, with rose-pinkish xstalline zone.
- @ 110.70 small stringers of sulfide within calcite
- @ 111.79- veinlets, <1% pyrite, pyrrhotite + trace cpy

114.40-143.76 Mafic to Intermediate Metavolcanics

Well developed banding/foliation @20-30 deg, light green in colour with dark green minerals visible in groundmass (chlorite/mafics)

- @ 123.00 increase in banding within calcite veinlets @30-40 deg., micro-fractures visible in places
- @ 126.15 increase quartz content with visible pyrite grains, disseminated and in stringers
- @ 126.90-128.66 light grey to tan coloured banding (up to 1 cm wide) of pyrite+pyrrhotite, 3-5%, qtz vein from 127.25-128.66 and altered felsic frags.
- @ 128.80-129.33 Intermediate metavolcanic (andesite), pale grey, medium grained with numerous light brown-tan coloured altered feldspar grains, <1 mm
- @ 129.33-130.73 foliation in calcite veins @25-30 deg, <1% coarse cubic pyrite, (late stage), chlorite seen on fracture surfaces

143.76-219.22 Sheared Intermediate-Felsic Metavolcanic

Aphanitic to fine grained , highly banded/foliated @25-45 deg., moderate shearing and quartz veining, looks very brecciated (autobrecciated?) in areas. Local areas of pale green sericite and talc alteration, fine disseminated pyrite in discrete areas.

- @ 141.62 thin patch of chalcopyrite within quartz vein and around felsic fragments, up to 2% with very thin stringers/bands of fine pyrite.
- @ 143.18-144.00 zone of up to 1-2% fine disseminated pyrite+minor late coarse cubic pyrite
- @ 144.0-145.53 moderate sericite alteration with slickensides along fracture faces.

- @ 162.15-164.61 noticeably more shearing/deformation as seen in stretched felsic and "cherty" fragments, small concentration of "quartz eyes" showing deformation around them
- @ 170.43-172.15 less sheared zone with 0.5% fine disseminated pyrite with coarser cubic pyrite and minor calcite veinlets.
- @ 180.40-180.85 Lamprophyre Dikes, biotite rich, fine
 @ 181.75-181.84 grained matrix with plag. phenocrysts,
 @ 183.00-183.39 moderately magnetic, 65-70 deg. c.a.
 @ 186.65-186.69
- @ 179.30-183.39 more chloritized zone with increased calcite fillings and chaotic veinlets, <1% coarse cubic pyrite

183.39-219.22 Sheared Intermediate to Felsic Metavolcanic

Light green with tan coloured cherty/felsic fragments, moderately brecciated (silica influx), moderately to strongly sheared in areas with cloudy quartz-calcite veining @ 40-50 deg and xcutting, sericite alteration.

- @ 187.52-192.48 slight increase in mineralization up to 1%, disseminated and coarse cubic pyrite, increased calcite veining but slightly less quartz, sheared and brecciated, darker green in areas (chlorite).
- @ 192.48-200.02 mineralization increasing up to 2% disseminated pyrite, sericite alteration, core looking more mafic with abundant quartz-calcite veining @ 30 deg. Brecciated felsic? fragments.
- @ 203.28 8 cm wide translucent quartz calcite vein @ 55 deg, no sulfides
- @ 208.32-213.00 Shear zone showing intense shearing and folding with boudinaged quartz-calcite veining and kink folding, brecciated felsic fragments, trace-1% pyrite, trace chalcopyrite

219.22-231..00 Mafic Metavolcanic(Amygdaloidal Basalt)

Very massive and fine grained, locally sheared/foliated with quartz-calcite veining @ 20-30 deg. and moderately deformed in areas. No brecciation but increased chlorite content. <1% coarse cubic pyrite.

- @ 226.72 2 cm wide quartz-calcite vein @ 40 deg, translucent to white, no sulfides

232.00-238.37 Sheared Intermediate to mafic volcanic

Moderately sheared with light to dark grey-green sections, brecciated quartz-calcite veins and "cherty" fragments, sericite alteration along thin "wispy" bands. Patches of coarse cubic pyrite, locally 1-2%.

238.37-239.52 Intermediate Metavolcanic (Andesite)

Light to medium grey, medium grained with sand size grains, minor calcite veinlets, <1% disseminated pyrite along stringers sericite alteration bands.

239.52-242.30 Intermediate to Mafic Metavolcanic (Basalt)

Fairly massive with quartz calcite veinlets and amygdals, local patches of <2 mm plagioclase phenocrysts, 1-2% fine disseminated pyrite, thin lenses of sericite alteration.

242.30-244.16 Intermediate Metavolcanic (Andesite)

As above but no visible mineralization, moderate sericite alteration at bottom contact @ low angle to c.a.

244.16-286.19 Sheared Intermediate to Mafic Metavolcanic

Aphanitic to fine grained with alot of deformed quartz-calcite veins and fragments that are locally folded and brecciated. sericite alteration occurring in thin "wispy" bands. Some late quartz-calcite veining @ 40-50 deg. <5 cm wide. odd patch of coarse cubic pyrite and minor disseminated pyrite, < 0.50%

@ 259.20 thin lenses of epidote and sericite alteration around chlorite blebs that appear stretched near contact with more massive mafic (basalt).

262.73--273.00 Mineralized zone

Hosted by a sheared and altered intermediate to felsic? volcanic with moderate quartz-calcite veining, fractured and locally brecciated with thick bands of fine disseminated pyrite and pyrrhotite, forming brownish-beige ribbons of sulfide at low angles to c.a., up to 10%.

@ 267.07-269.25 zone of 8-10% pyrite, disseminated and within sulfide bands.

@ 274.00-277.39 up to 1% disseminated pyrite and trace chalcopyrite, abundant quartz-calcite veins and "swirly" sericite bands.

286.19-305.40 Mafic Metavolcanic (Basalt)

Fine to medium grained, dark green colour, quartz-calcite veining sparse except in localized areas, scattered calcite fillings and silicified zones, <1% pyrite.

@ 280.50 15 cm wide lime green bleached and epidote altered zone with trace pyrite

@ 284.70 30 cm section of quartz-calcite veining before getting into more massive basalt, few small flecks of pyrite.

@ 288.86-289.72 silicified zone, very bleached in areas, brecciated with xcutting quartz-calcite veining, 0.5-1% disseminated pyrite along veinlets, sometimes surrounded by a fine black mafic mineral (possibly biotite?).

- @290.33 thin 3 cm wide cherty fragment @30 deg., sericite and chlorite surrounding fragment, trace pyrite.
- @294.76 core becomes weakly to moderately sheared, chlorite rich zones surrounding brecciated mafic fragments, foliation @30 deg, slight increase in quartz-calcite veining , weakly folded and boudined.
- @297.82-298.00 brecciated zone with white-cloudy quartz-calcite veining, up to 1% coarse cubic pyrite.

305.40-308.50 Altered Intermediate-Mafic Metavolcanic (Andesite)

Fine to medium grained, light-dark grey, abundant micro-fractures and very finely brecciated?, mottled texture, minor quartz-calcite veining @15-20 deg up to 2 cm wide, sharp upper and lower contacts @ 50-60 deg., no sulfides

308.50-331.88 Mafic Metavolcanic (Basalt)

Fine to medium grained, fairly massive, weakly foliated @30-35 deg, faint banding still visible, locally weakly brecciated, moderate quartz-calcite fillings, slightly deformed thin cloudy quartz-calcite veins, <0.5% pyrite

- @317.50 zone of cloudy quartz-calcite veining and brecciated mafic fragments xcutting core, trace pyrite
- @321.54

- @324.22-331.88 shearing becomes more intense with banded light green mafic sections separated by dark green chlorite rich bands, (brecciated appearance). Quartz-calcite veinlets more frequent showing boudins and folding, micro fractures causing 1 cm wide offsets along banded zones, foliation @35-40 deg., trace-0.5% pyrite

331.88-333.20 Altered Intermediate to Felsic? Metavolcanic (Mineralized Zone)

Moderately to strongly sheared, pale green-lime coloured sericite alteration over most of zone, otherwise medium to light grey in colour, moderate quartz-calcite veining and silica influx, brecciation and folding along some veinlets with weak boudinaging, foliation @15 deg, scattered mafic (biotite?) grains/flecks visible in some veinlets, sharp contacts @ 50 deg, 1-2% "very" finely disseminated pyrite throughout zone.

333.20-361.08 Sheared Mafic Metavolcanic (Amygdaloidal Basalt)

Fine to medium grained, banded with lighter coloured mafic bands separated by darker chlorite bands, moderately folded and boudined quartz-calcite veinlets and amygdal fillings, foliation @30 deg.

- @340.75 4 cm wide white-translucent quartz-calcite vein @35 deg,
- @351.66 trace pyrite

361.08-366.50 Sheared Intermediate Quartz Porphyry

Medium to dark grey with light green-yellow sericite alteration in mottled textured groundmass, medium grained with sporadic rounded quartz phenocrysts, shearing @ 25 deg with few late thin calcite veinlets @ 65 deg, trace pyrite

@362.20 25 cm wide zone of translucent-cloudy quartz-calcite veining with chlorite lenses and a black "acicular" mineral (possibly tourmaline) showing slight folding, trace-0.5% disseminated pyrite.

366.50-371.42 Mafic Metavolcanic (Amygdaloidal Basalt)

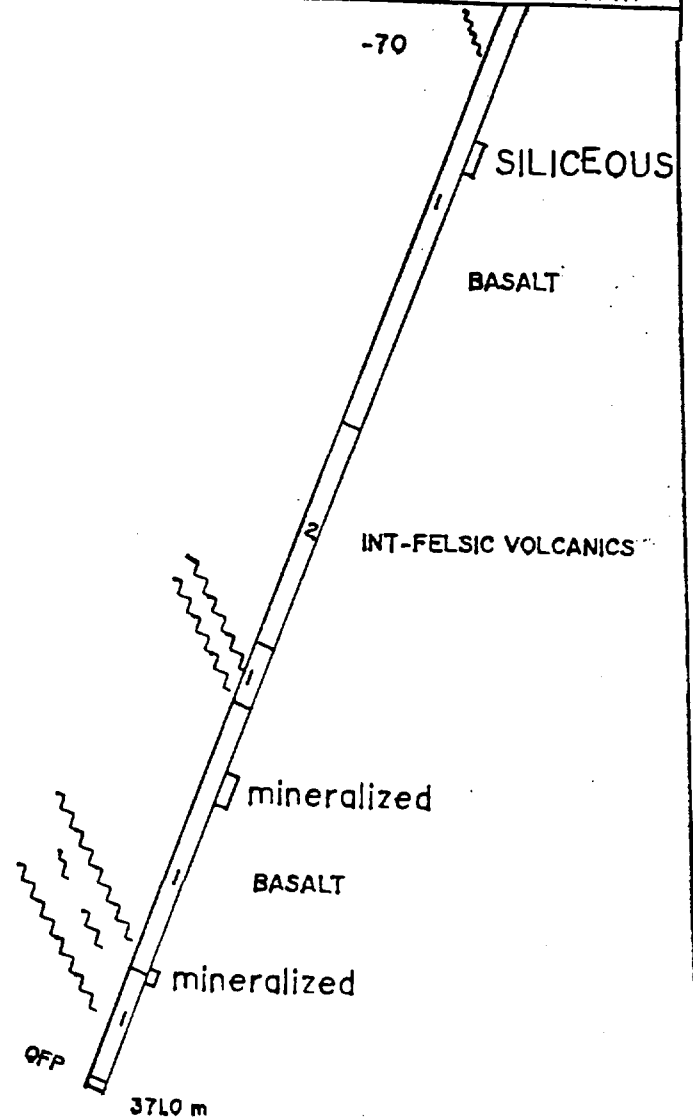
Fine to medium grained, weakly sheared, local areas of chloritic banding @ 35-40 deg with late opposing calcite veinlets @ 65 deg, odd boudined quartz-calcite veinlet, <0.5% pyrite.

371.42 E.O.H.

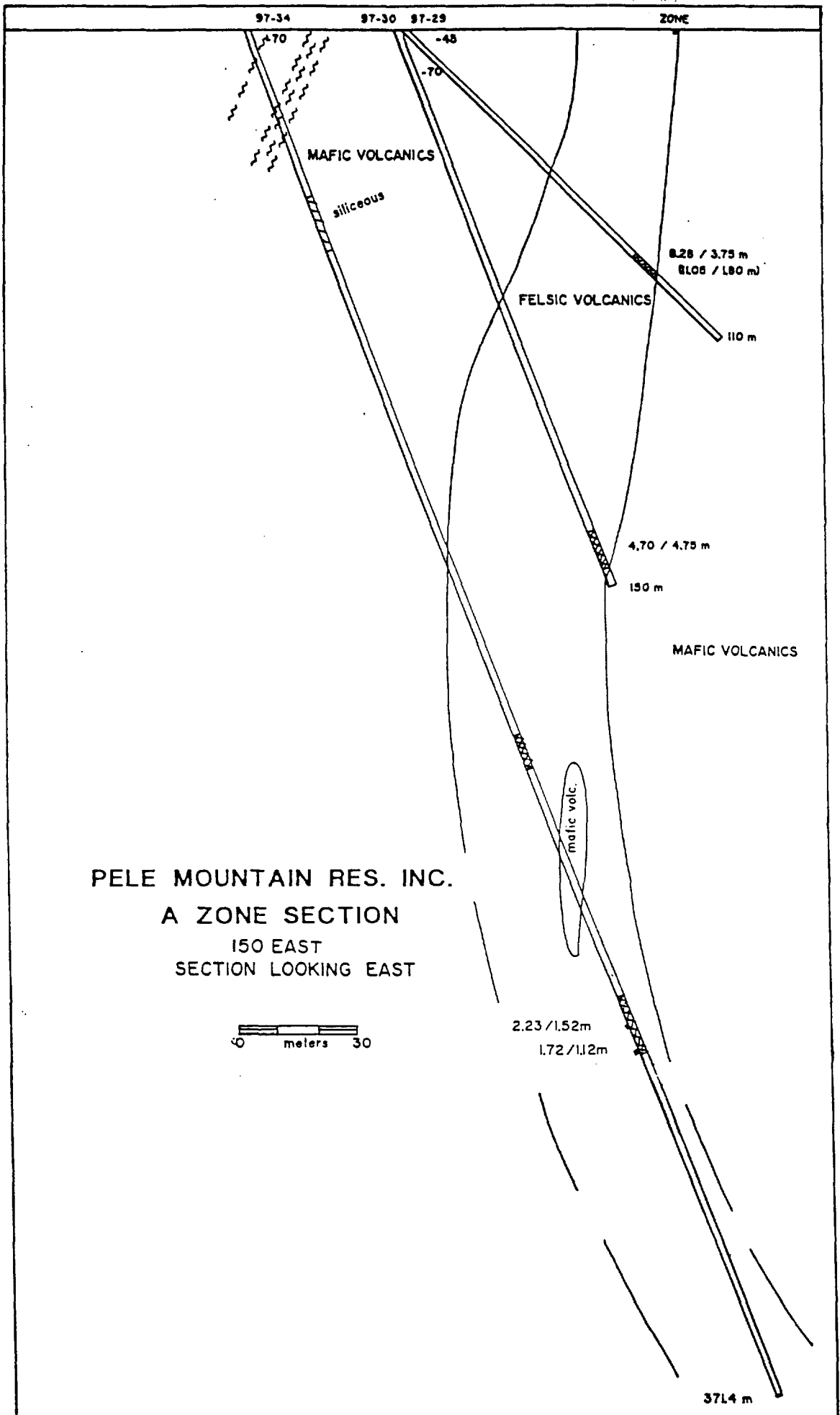
South

North

- 1 Mafic Volcanic basalt
- 2 Felsic Volcanic tuff
- 3 Chemical Sediments iron formation
- 4 Mafic Intrusive gabbro
- 5 Felsic Intrusive syenite



WAWA PROJECT
PELE MOUNTAIN RES. INC.
DRILLHOLE SECTION 97-34



DIAMOND DRILLING LOG **W97-35**
Pele Mountain Resources - Wawa Project
Claim #: **539887**
Coordinates: 32m N of 97-33
Azimuth: **180**
Dip: -70m
Date started: Sept. 11, Sept. 25, 1997
Date finished: Sept. 13, Sept. 26, 1997
Logged by: S. Vatcher, B.Sc., Geologist
Drilled by: Chibougamau Diamond Drilling Ltd.
Core size: NQ (core stored at Lochalsh)

Total depth: 248.87m

0-1.7 Drill Casing

1.7-29.14 Mafic Metavolcanic (Basalt)

Fine to medium grained, medium to dark green, locally slightly sheared and foliated @ 30-50 deg, otherwise massive with a few quartz calcite veins foliated and xcutting, epidote alteration in groundmass and along veinlets, moderate chlorite alteration within sheared zones, up to 1% disseminated pyrite and pyrrhotite and locally abundant magnetite grains.

@ 2.1-2.46 rubbly core
@ 4.75-5.50

@ 4.40 3.5 cm wide quartz calcite vein @ 65 deg., small rusty patch,
no sulfides

@ 6.62-12.00 Slightly finer grained, well foliated and locally sheared with
discordant quartz-calcite veins and amygdals. Trace-0.25%.

@ 9.18-9.31 light green to lime coloured epidotized zone.

@ 16.87-17.07 quartz-calcite vein, translucent to white, xcutting core, no
sulfides

29.14-50.00 Sheared Mafic Metavolcanic (Amygdaloidal Basalt)

Noticeably more sheared and foliated with more abundant thin quartz-calcite veinlets @ 30-40 deg., slightly coarser grained.

@ 27.50-28.54 1-2% disseminated pyrite and lesser pyrrhotite

@ 46.38-47.23 <1% disseminated pyrite + pyrrhotite in calcite veinlets

@ 47.03 1 cm wide boudinaged calcite vein @ 40 deg.

@ 47.03 1 cm wide boudinaged calcite vein @ 40 deg.

50.00-58.60 **Mafic Metavolcanic (Basalt)**

More massive, medium grained, sand size grains. Odd calcite veinlets, locally very weakly foliated chlorite blebs.

58.60-59.58 **Intermediate Feldspar Porphyry**

Fine grained, light to medium grey matrix, tiny <1 mm mafic grains (chlorite?), <5 mm sized rounded feldspar phenocrysts and lathes, no sulfides. Very silicified.

59.58-92.75 **Mafic Metavolcanic (Basalt)**

Medium grained, light green in colour, locally sheared with moderate calcite veining, epidote alteration in places, moderate magnetite grains.

@ 63.55-65.90 moderately sheared with numerous thin (<1.5 cm wide) calcite veinlets oriented @30 deg. and xcutting, trace pyrite.

@ 66.48-66.61 quartz-calcite veins, translucent to white with rose-coloured
@ 76.0-76.14 zones, no sulfides.

@ 79.15-83.25 weak-moderate shearing with more calcite veining and fillings @ 20-30 deg., local patches of lime green epidote alteration

@ 90.35-90.65 several thin, <5 mm, hematite bands, dark red in colour within calcite veinlets.

92.75-123.37 **Sheared Amygdaloidal Basalt**

Medium to coarse grained, shearing becoming more intense at depth. At 92.75-93.10, core is very rubbly and fractured. Moderate to high calcite veining and amygdal fillings @ 20 deg. and xcutting. Calcite is visibly stretched and locally brecciated and folded. Numerous tiny calcite and plagioclase grains in groundmass. Veining up to 12 cm wide in places, moderate magnetite grains and minor hematite. Odd trace of coarse pyrite.

@ 96.43-96.70 couple of 12 cm wide calcite veins @ 25 deg., moderately sheared, no sulfides.

@ 117.42 12 cm quartz-calcite vein @ 35 deg., calcite is a dull pinkish colour, no sulfides.

117.17-120.00 **Coarse Grained Flow**

Medium to coarse grained, numerous tiny plagioclase grains in groundmass. few xcutting calcite veinlets, moderately sheared, gradational contacts.

@ 117.25-117.35 translucent to white quartz-calcite vein @ 45 deg., no sulfides

@ 118.41-118.81 quartz-calcite vein at an acute angle to c.a., thin disseminated sulfide bands, <0.25% pyrite

120.00-123.37 Sheared Intermediate to Mafic Metavolcanic (Basalt)

Medium grained, moderately sheared and foliated @ 30-40 deg., see silicified cherty/felsic? fragments, trace to 0.5% disseminated and finely banded pyrite.

123.37-123.77 Altered and Sheared Intermediate Volcanic (Andesite Porphyry?)

Light grey to tan colour with tiny quartz phenocrysts (barely discernible), strong sericite alteration, mafic grains visible (biotite/chlorite?). Trace disseminated pyrite bands at top and bottom contacts @ 30-40 deg.

123.77-136.95 Intermediate to Mafic Metavolcanic (Basalt)

Locally sheared and feldspar porphyritic looking in areas but becoming more massive at depth, fine grained, moderate quartz-calcite veining @ 25-30 deg., folded and boudinaged in areas of more intense shearing. Trace to 0.25% disseminated and cubic pyrite.

@ 131.70 Unit developing a weak banding with alternating light green to grey 10 cm wide bands and thinner 2 cm wide dark chlorite bands that contain tiny feldspar? grains.

@ 135.00 small 3.5 cm wide quartz-calcite vein about 12 cm long running parallel to c.a., no sulfides.

136.95-140.40 Sheared Intermediate Volcanic (Andesite)

Medium grained, moderately sheared and sericite altered, may be porphyritic but difficult to discern due to shearing. Foliation is @ 30-40 deg and contacts are @ 30 deg.

@ 137.50-138.00 Intensely sheared and fractured with small 7-8 cm quartz vein that contains 0.5% pyrite and trace to 0.25% chalcopryite.

140.40-144.20 Sheared Intermediate to Mafic Metavolcanic (Basalt)

Aphanitic to fine grained, moderately sheared, quartz-calcite veining and amygdals (<1 cm wide), foliation @ 25 deg, locally silicified. <1% cubic pyrite and thin <1 mm wide sulfide bands.

144.20-205.28 Sheared Intermediate to Felsic Metavolcanic (Altered Rhyolite)

Very well developed layering/banding @ 40 deg., light grey-green to tan coloured, weakly to moderately brecciated, many cloudy quartz-calcite veins with no sulfides. Moderate sericite alteration in places. Locally <1% pyrite.

@ 146.90 Thin 1 cm wide xcutting quartz vein @ ~40 deg. with several <3 mm chalcopryite grains,

- @ 151.70-157.54 Highly brecciated section with areas of moderate chlorite around tan coloured felsic porphyritic fragments, <1% cubic and disseminated pyrite.
- @ 152.83 2 cm wide quartz-calcite vein @ 45 deg., white to translucent, no sulfides.
- @ 166.30-167.80
@ 171.32-173.62 More massive Felsic (Rhyolite) zones with less banding but still sheared @30 deg., less quartz-calcite veining and only trace pyrite
- @ 175.68-176.41 Increased silica influx with abundant quartz-calcite veining xcutting core and brecciated felsic fragments, no sulfides.
- @ 177.92-178.91 Lamprophyre Dike, phaneritic texture with a biotite rich groundmass. Plagioclase phenocrysts visible in matrix and small amount of calcite veinlets and grains.
- @ 178.91-201.16 Less shearing and quartz-calcite veining, i.e. more massive with much less banding, weakly brecciated with numerous tiny beige coloured grains in groundmass (altered feldspar grains?), trace disseminated pyrite.
- @ 186.73-188.58 couple of white to translucent quartz-calcite veins cutting core @ 50 deg. with up to 1% coarse pyrite and trace chalcopyrite.
- @ 188.58-189.10 slightly more sheared and banded rhyolitic zone with thin calcite veinlets and minor trace of coarse pyrite.
- @ 195.30-196.57 slightly more deformed zone with swirly sericite alteration bands, increased silica influx with one late thin quartz vein @ 65 deg. with no sulfides. Up to 1% disseminated pyrite and trace chalcopyrite over zone.

205.28-211.97 Sheared and Altered Intermediate to Mafic Metavolcanics

Unit becomes more chloritized and darker in colour, moderate to strongly sheared with abundant quartz-calcite veining, folded and boudined, obvious increase in thin light brown to tan sericite bands, veining generally thin (<2 cm) but very chaotic, up to 1% disseminated pyrite.

211.97-215.37 Intermediate to Mafic Metavolcanic

More massive, medium to fine grained, much less quartz-calcite veining but very siliceous with some brecciation, no sulfides.

- @ 210.25-210.60 series of xcutting and brecciated white to translucent quartz-calcite veins up to 5 cm wide with dark mafic lenses?, foliation @30 deg, <1% pyrite

215.37-221.78 Mafic Metavolcanic (Basalt)

Fine to medium grained, dark green colour, small areas of quartz-calcite veinlets and lighter grey brecciated mafic fragment (silicified), sporadic calcite fillings, <1% pyrite

@216.60 1 cm wide translucent-white quartz-calcite vein @ 10 deg, 0.5% coarse late pyrite.

221.78-223.04 Altered Coarse Grained Flow

Sharp chilled fine grained upper contact @ 60 deg, medium to dark grey in colour, silicified with trace coarse cubic pyrite.

@222.83 3 cm wide translucent quartz-calcite vein @ 55 deg, lime green bleached zones on either side, 1% coarse late cubic pyrite.

223.04-248.87 Mafic Metavolcanic (Amygdaloidal Basalt)

Fine to medium grained, locally moderately sheared with deformed and boudined xcutting quartz-calcite veinlets and fillings, xcutting thin micro-fractures showing slight offset along veinlets, foliated @30 deg with late opposing veinlets @65 deg, slickensides visible on some fractured surfaces, numerous sand-size calcite grains visible in groundmass, <0.5% disseminated and coarse cubic (0.5 cm wide) pyrite.

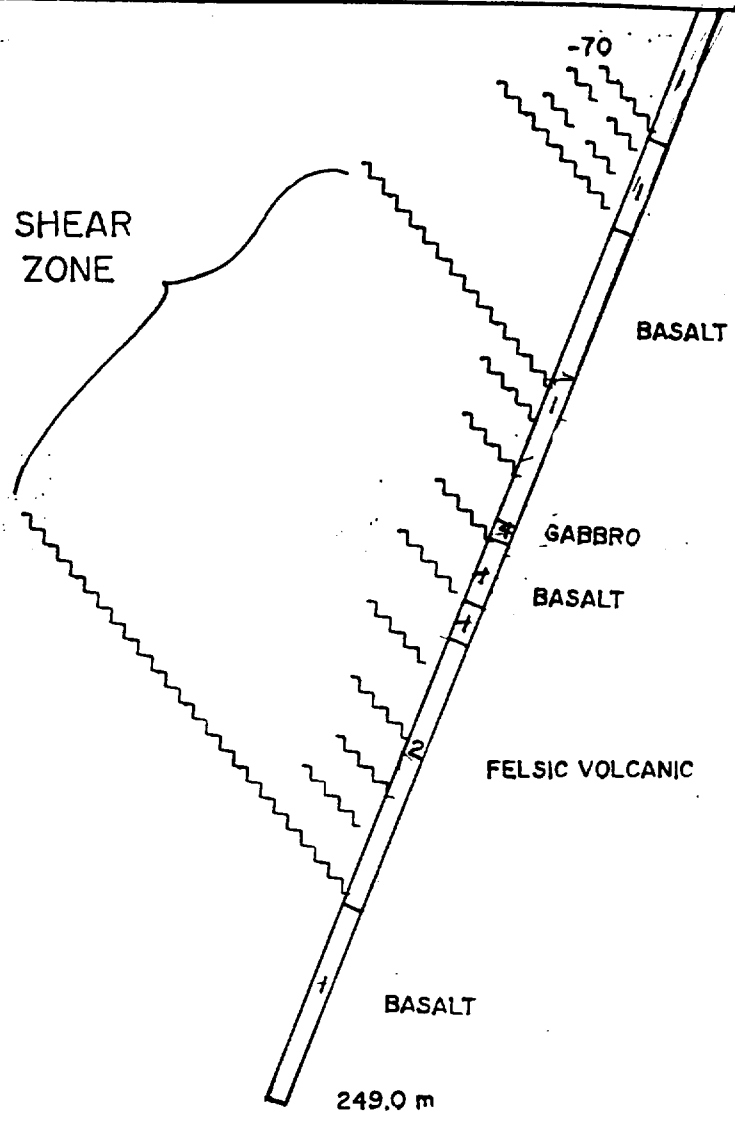
@243.35-244.25 light grey silicified zone with dark green chloritic bands separating silicified bands, moderately sheared with few tiny and slightly folded quartz-calcite veinlets @45 deg with later veinlets @80 deg, small epidotized? grains also visible, no sulfides.

@246.52 8 cm wide xcutting quartz-calcite vein with fragments of brecciated wallrock and rose pink calcite, 10-15% very finely disseminated pyrite.

248.87 E.O.H.

South

North



Mafic Volcanic basalt



Felsic Volcanic tuff



Chemical Sediments iron formation



Mafic Intrusive gabbro



Felsic Intrusive syenite



WAWA PROJECT
PELE MOUNTAIN RES. INC.
DRILLHOLE SECTION 97-35

DIAMOND DRILLING LOG **W97-36**
Pele Mountain Resources - Wawa Project
Claim #: **539887**
Coordinates: 57m N of 97-33
Azimuth: 180
Dip: -70
Date started: Sept. 13, Sept. 24, 1997
Date finished: Sept. 16, Sept. 25, 1997
Logged by: S. Vatcher, B.Sc., Geologist
Drilled by: Chibougamau Diamond Drilling Ltd.
Core size: NQ (core stored at Lochalsh)

Total depth: 345.05

0-1.39 Drill Casing

1.39-40.40 Mafic Metavolcanic (Basalt)

Fine to medium grained, dark green and moderately chloritized, massive and locally sheared @ 20-30 deg.. Quartz-calcite veining and grains low except in sheared areas., <1% coarse cubic pyrite.

- | | |
|-------------------------------|--|
| @ 6.30 | 2 cm wide intensely sheared lime green clay seam. |
| @ 5.45-6.00 | several 3m wide cloudy quartz-calcite veins @ 30 deg. with up to 1% cubic and disseminated pyrite. |
| @ 14.83-15.48 | moderately sheared with abundant quartz calcite veining and amygdals xcutting core. 1% coarse pyrite. |
| @ 17.55
@ 18.40
@ 20.04 | White-translucent quartz-calcite veins xcutting core, no sulfides. |
| @ 36.30-39.65 | moderately sheared @ 25 deg with highly deformed calcite veins, offset up to 1 cm. Few late veins <1 cm @ 70 deg., <0.5% pyrite. |
| @ 36.90 | 8 cm wide fault gouge? |
| @ 37.80 | 20 cm of rubbly broken core |

40.40-47.00 Mafic Metavolcanic (Coarse Grained Flow)

Noticeably larger grain size, plagioclase phenocrysts visible in groundmass, few calcite veins @ 40-50 deg., weak foliation, generally lighter in colour due to epidote alteration.

- | | |
|---------------|---|
| @ 44.24-45.12 | Sheared zone with moderately deformed quartz-calcite veins @ 40 deg., chloritized with deformation around the odd quartz grain. |
|---------------|---|

47.00-63.30 Sheared Mafic Metavolcanic (Basalt)

Fine to medium grained, massive with foliated chlorite blebs @35-40 deg., trace-0.25 pyrite.

- @ 48.15-48.80 Highly deformed calcite veins up to 16 cm wide, crenulated and often xcutting core, scattered boudined calcite vein.
- @ 54.63 2 cm wide white to translucent quartz-calcite vein @65 deg, no sulfides.
- @ 57.58-62.28 Increase in sulfide content up to 1% disseminated and cubic pyrite and trace pyrrhotite
- @ 57.58-58.59 Moderately sheared and chloritized, xcutting quartz-calcite veins with brecciated mafic fragments, epidote altered to pale green in places. Up to 1% pyrite and pyrrhotite in places.

63.30-168.00 Mafic Metavolcanic (Coarse Grained Flow)

Medium to coarse grained, weakly sheared and foliated @ 40-50 deg., some late quartz veining @ 70-75 deg. Plagioclase phenocrysts in groundmass plus scattered calcite amygdals and quartz grains, Odd patch of magnetite and hematite.

- @ 72.17-72.90 large white to semi-translucent quartz vein, strong chlorite bands at irregular upper contact with brecciated mafic fragments and quartz. Bottom contact @65 deg., no sulfides.
- @ 80.40-80.60 Quartz-calcite vein with brecciated mafic fragments at lower contact, chlorite patches also present. contacts @40 deg.
- @ 83.50-90.00 increase in shearing with more chaotic quartz-calcite veinlets @20-25 deg. and xcutting showing offsets and boudins.
- @ 84.98-85.76 Up to 1% disseminated pyrite and pyrrhotite in thin calcite veinlets.
- @ 87.29-90.00 Zone of intense shearing with boudined and brecciated quartz-calcite veining up to 2.5 cm wide, foliation still between 20-30 deg.
- @ 97.24-97.59 silicified lime green, epidote altered zone with moderate brecciation and calcite plus dark chlorite lenses, no sulfides.
- @ 103.94-108.61 moderately sheared with well foliated calcite and chlorite blebs @25 deg., also see xcutting calcite veinlets with 1 cm offset, dark chlorite bands , no sulfides.
- @ 106.82 30 cm lime green silicified and brecciated zone with a thin clay seam at top.
- @ 115.00 Begin to see more silicified zones up to 1m wide, light green to lime coloured with dark chlorite and calcite grains

standing out. Very gradational transitions in and out of zones. Little or no associated mineralization except trace magnetite and hematite. Foliation @30-40 deg.

- @ 119.20-119.50 Possible fault gouge with very broken and rubbly core, moderately chloritized and "clayey".
- @ 119.50 core develops a "banded" appearance with thin dark chlorite bands (1-3 cm wide) and larger more basaltic bands, all foliated @20-30 deg.
- @ 132.35 couple of 2 cm wide quartz-calcite veins @35 deg., no sulfides
- @ 135.00 see more light green epidotized zones, brecciated with calcite veining up to 15 cm wide, 1% coarse pyrite.
- @ 151.87 Gradual increase in shearing with more calcite veinlets and amygdals stretched and slightly boudined, foliation @ 25 deg. with late steeper opposing veinlets @ 60 deg. <1% disseminated pyrite.
- @ 161.88-166.50 Moderate to highly sheared with darker more chloritized zones, calcite veining @ 25 deg., becoming finer grained.
- @ 161.88-163.13 Mineralized zone with 1-2% disseminated pyrite.
- @ 162.79-163.13 Quartz-calcite vein @20 deg with 1-2% pyrite.
- @ 166.15-166.50 Quartz-calcite vein with 2% disseminated pyrite near contact with Lamprophyre dike below.
- @ 166.50-166.98 Lamprophyre dike, biotite rich with a phaneritic texture and calcite grains in groundmass, irregular contacts, no visible sulfides.
- @ 167.73-168.00

168.00-182.55 Mafic Metavolcanic (Amygdaloidal Basalt)

Aphanitic to fine grained, dark grey-green in colour, siliceous with chaotic quartz-calcite veinlets and amygdals. Less sheared at top but increasing at depth with "micaceous" zones. Weak banding of chlorite and mafics, locally brecciated. <1% pyrite.

- @ 174.00-178.88 numerous quartz-calcite veinlets (<1 cm wide) showing moderate deformation and brecciation with boudinage and kink folding, trace coarse cubic pyrite.
- @ 178.828-182.55 Abundant quartz-calcite veining with large brecciated and chloritized mafic fragments, very chaotic looking. Patches of light green sericite "mica", trace coarse cubic pyrite.

182.55-187.56 Sheared Intermediate Metavolcanic (Andesite)

Strongly sheared, medium to coarse grained with chlorite and sericite alteration, very micaceous looking in places, odd quartz-calcite veinlet xcutting and parallel to foliation @ 25 deg., no visible mineralization.

@ 185.60-186.00 semi-translucent to white quartz-calcite vein @ 55 deg with trace pyrite.

@ 186.00-186.60 Mineralized zone of moderately sheared and chloritized mafic volcanic with several boudined and folded quartz-calcite veins (2 cm), foliated @ 30-40 deg., 2-3% cubic and disseminated pyrite.

186.60-187.62 Sheared Intermediate Metavolcanic (Andesite)

As above, moderately to strongly sheared @ 30-40 deg., moderate quartz-calcite veining and scattered amygdal.

@ 187.42-187.62 Bleached zone, Intensely sheared.

187.62-193.60 Mafic to Intermediate Volcanic

Moderately sheared and banded @ 30-40 deg., quartz-calcite veining (<2 cm) and scattered amygdals. Becoming more brecciated at depth with light brown to tan coloured fragments.

193.60-197.06 Sheared Intermediate Metavolcanic (Andesite)

As above, silicified with sericite and chlorite alteration, micaceous texture, minor quartz-calcite veining @ 35 deg., Pyrite <1%.

197.03-213.29 Mafic to Intermediate Metavolcanic

moderately sheared and banded, as above, with brecciated and strongly chloritized bands, boudined and folded quartz-calcite veins @ 20-30 deg and xcutting, <1% pyrite.

@ 207.00-213.29 abundant chaotic qtz-calcite veinlets xcutting core, some look late, silica influx, slight increase in disseminated pyrite up to 1%, except up to 2% between 209.63-210.40. See fewer brecciated tan coloured fragments, becoming more mafic and massive.

213.29-214.90 Sheared Mafic Metavolcanic (Basalt)

Abundant cloudy quartz-calcite veining @ 25 deg, silica influx with brecciation in and around veining (<2 cm wide), thin swirly bands of tan coloured sericite alteration. 1-2%, disseminated pyrite.

214.90-221.77 Mafic Metavolcanic (Basalt)

Massive, medium grained, much less quartz-calcite veining, weakly foliated @ 45 deg., locally folded, <1% pyrite.

221.77-229.69 Sheared Mafic Metavolcanic (Amygdaloidal Basalt)

weakly to moderately sheared with abundant chaotic quartz-calcite veining and amygdals, locally foliated @ 40 deg. Moderate deformation in some areas with folding and boudinaged veins (<3 cm wide), brecciated at upper section, <1% coarse cubic pyrite (late!)

229.69-238.82 Mafic Metavolcanic (Coarse Grained Flow)

Medium to coarse grained, moderate brecciation with quartz-calcite veining xcutting core, <1% coarse pyrite (Late!)

238.82-258.00 Mafic Metavolcanic (Basalt)

Fine to medium grained, medium to dark green, moderate xcutting quartz-calcite veining, weakly foliated @ 30 deg., locally silicified in areas of increased silica influx, pyrite <1%

@ 243.80 thin, <1 cm wide x 10 cm long cherty fragment within a silicified dark green chlorite lens running parallel to c.a.

@ 253.60-255.48 Zone of increased silica influx with brecciated and folded quartz-calcite veining @ 25-30 deg with some smaller late opposing veinlets @ 50 deg. showing slight offsets, no sulfides

258.00-288.45 Coarse Grained Mafic Flow (Gabbro)

Upper contact gradational becoming coarser grained at depth. See numerous plagioclase phenocrysts within a very crystalline groundmass. Few xcutting calcite veinlets. Lower contact is sharp and @ 25 deg., up to 1% coarse cubic pyrite

@ 265.17-265.77 0.5-1% coarse cubic pyrite (up to 0.5 cm wide) and trace chalcopyrite., @ 265.44 there is a 2 cm wide translucent quartz vein @ 75 deg. Sulfide grains extend across contact so obviously are late stage.

@ 268.05 20 cm long brecciated quartz-calcite vein parallel to c.a. being xcut by a smaller <1 cm wide vein @ 65 deg., i.e. overprinting. Trace coarse cubic pyrite.

@ 269.20 another 20 cm wide zone of thin quartz-calcite veinlets (<1 cm), resulting in brecciation of surrounding gabbro fragments, no sulfides.

@ 277.36-280.48 Shear zone with moderate to high silica influx, foliation is @ 15-20 deg., very silicified and brecciated, lighter in colour with increased quartz-calcite veining at depth. Can also see thin bands of light brown-tan coloured sericite alteration near lower contact, trace coarse pyrite.

@280.48-288.15 Less brecciated and lower silica influx but still moderately sheared with folded and boudinaged quartz-calcite veinlets @20-25 deg. Begin to see many tiny "bluish quartz eye (phenocrysts)" but unit still has a crystalline gabbroic texture, <0.5% pyrite.

288.15-323.95

Sheared and Altered Mafic to Intermediate Metavolcanic (Basalt)

Sharp upper contact @25 deg, moderate silica influx with a sudden increase in cloudy brecciated quartz-calcite veining showing folding and boudinaging, also see sudden significant increase in thin light brown to tan coloured sericite alteration creating a banded appearance @10-15 deg but still fairly chloritic!, calcite fillings and quartz grains also present, pyrite content <1% overall but locally up to 2-3%.

@297.00-297.51 Mineralized Zone with 2-3% coarse and disseminated pyrite occurring mainly within cloudy quartz-calcite veining.

@300.39-308.10 Light grey-green, see less sericite alteration and banding but still moderately sheared and brecciated with high quartz-calcite content.

@300.39-301.91 0.5-1% disseminated pyrite

@309.90 6 cm wide white quartz-calcite vein in breccia zone, no sulfides.

@318.56-321.70 moderately sheared and brecciated with slickensides visible on fractured surfaces

@321.70-323.95 zone of higher silica influx with abundant cloudy quartz-calcite veining especially towards upper contact @45 deg., zone is very "banded" with tan coloured sericite alteration and chlorite, foliated @25 deg., slickensides on fractured surfaces, brecciated and boudined veins, noticeable increase in sulfides up to 1-2% disseminated pyrite, sharp lower contact @40 deg. going immediately into an amygdaloidal basalt.

323.95-345.05

Mafic Metavolcanic (Amygdaloidal Basalt)

Fine to medium grained, medium to dark green in colour, <1 cm wide calcite amygdals and fracture fillings that tend to be somewhat localized. Weakly foliated and sheared @25 deg. with scattered white to translucent quartz-calcite veins, locally brecciated and slightly boudined, trace-1% pyrite and pyrrhotite

@326.47 6-8 cm wide quartz-calcite vein xcutting core with
@334.26 brecciation in and around vein, no sulfides

@334.70 up to 1 cm wide slightly boudined milky white quartz-calcite vein @30 deg., no sulfides.

@337.17-345.17 unit becomes slightly more chloritized and brecciated with large lighter coloured mafic fragments surrounded by

chlorite, slight increase in quartz-calcite veining moderately sheared and deformed with slickensides on some fractured surfaces. Also see some light grey cherty fragments in localized areas.

345.17 E.O.H.

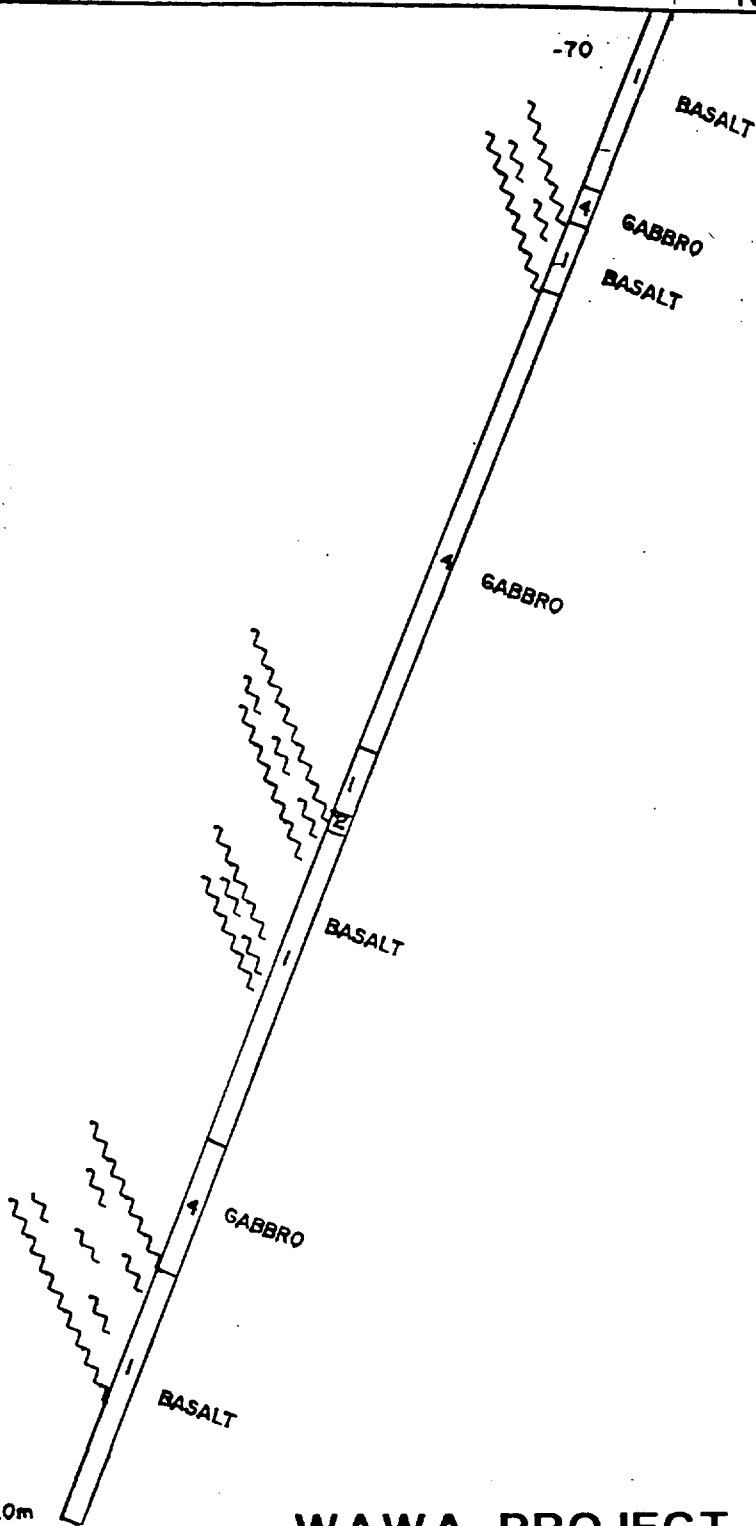
South

North

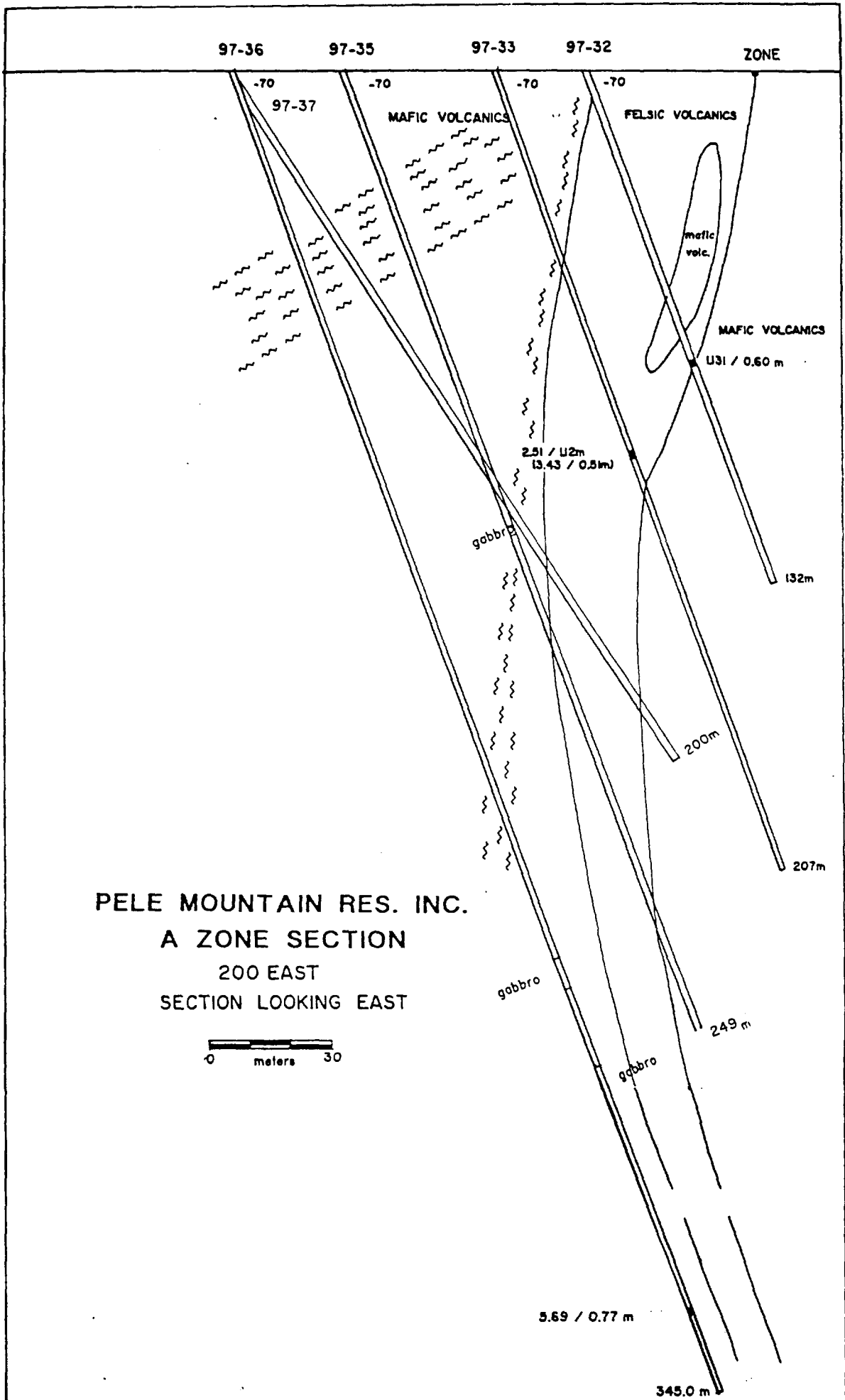
- 1 Mafic Volcanic basalt
- 2 Felsic Volcanic tuff
- 3 Chemical Sediments iron formation
- 4 Mafic Intrusive gabbro
- 5 Felsic Intrusive syenite



345.0m



WAWA PROJECT
PELE MOUNTAIN RES. INC.
DRILLHOLE SECTION 97-36



97-17
97-16

97-21

DRILLHOLE PLAN

1200157 ONTARIO INC.

MARKES WAWA PROPERTY

97-20

-69 97-4 136.9-140.5
-45 97-3 106.9-112.2

97-14

97-19

-45 37-11 85.3-85.9

-65 87-41 110.0-111.0

97-13

97-15

-45 37-10 76.6-79.4

100W

80W

60W

40W

20W

baseline

BL A

-46 37-6 43.0-52.6

97-18

-62 86-24 50.0-54.5

97-12

-81 97-2 86.5-88.8

-71 97-1 62.9-74.3

-41 37-3 36.5-42.2

-40 37-4 39.1-44.0

37-1
-45

96-3

-46 86-18 26.9-35.1

86-17 18.2-30.2

ZONE

porphyry
mafic volcanics

BL B

-46 37-2 14.3-16.5

-73 86-22 19.1-21.8

-46 86-19 15.7-17.1

-46 86-21 11.5-14.6

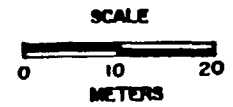
-50 96-1 0.2-14.5

-60 96-2

97-11

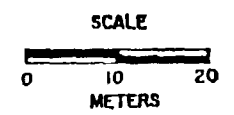
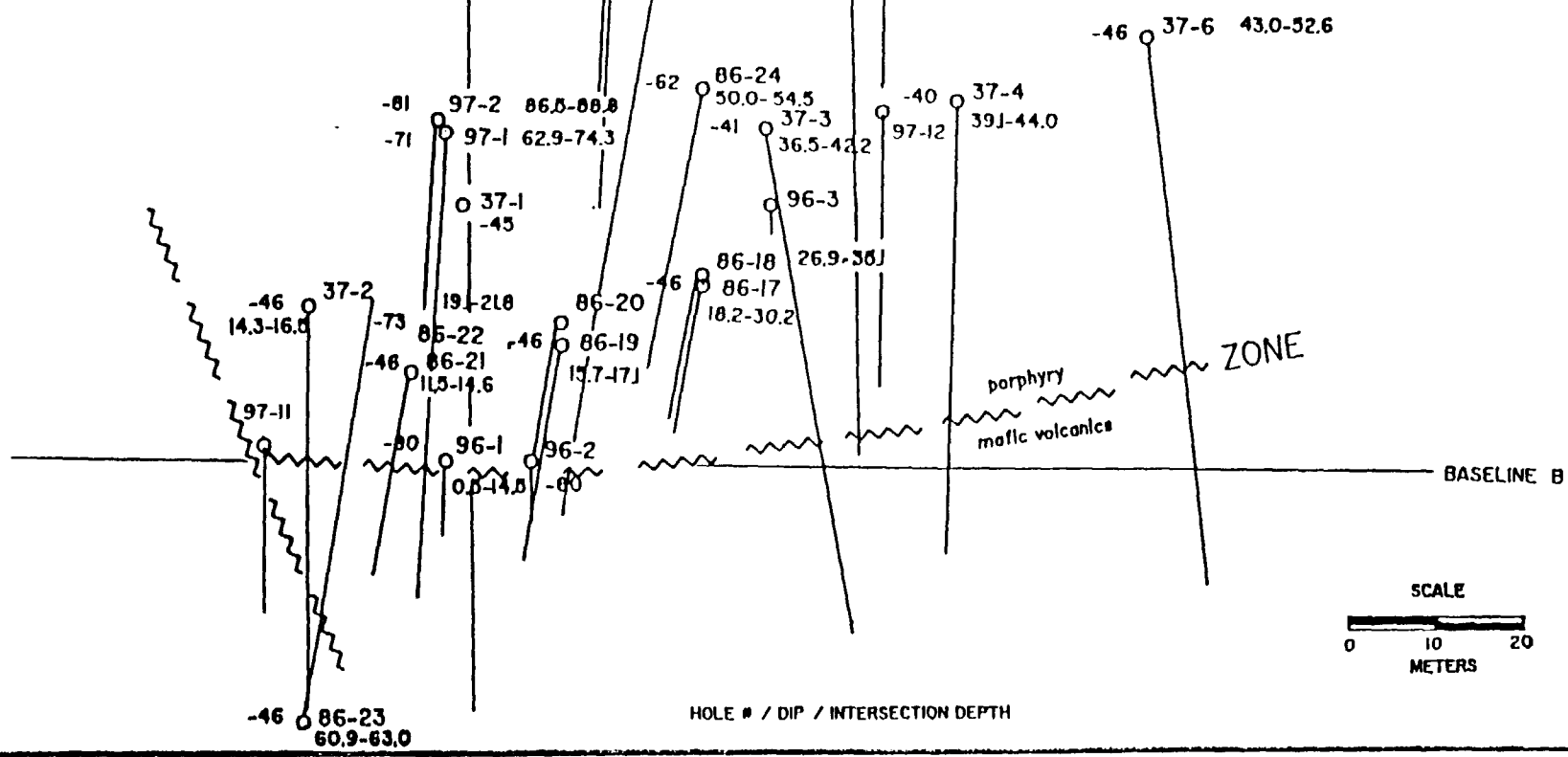
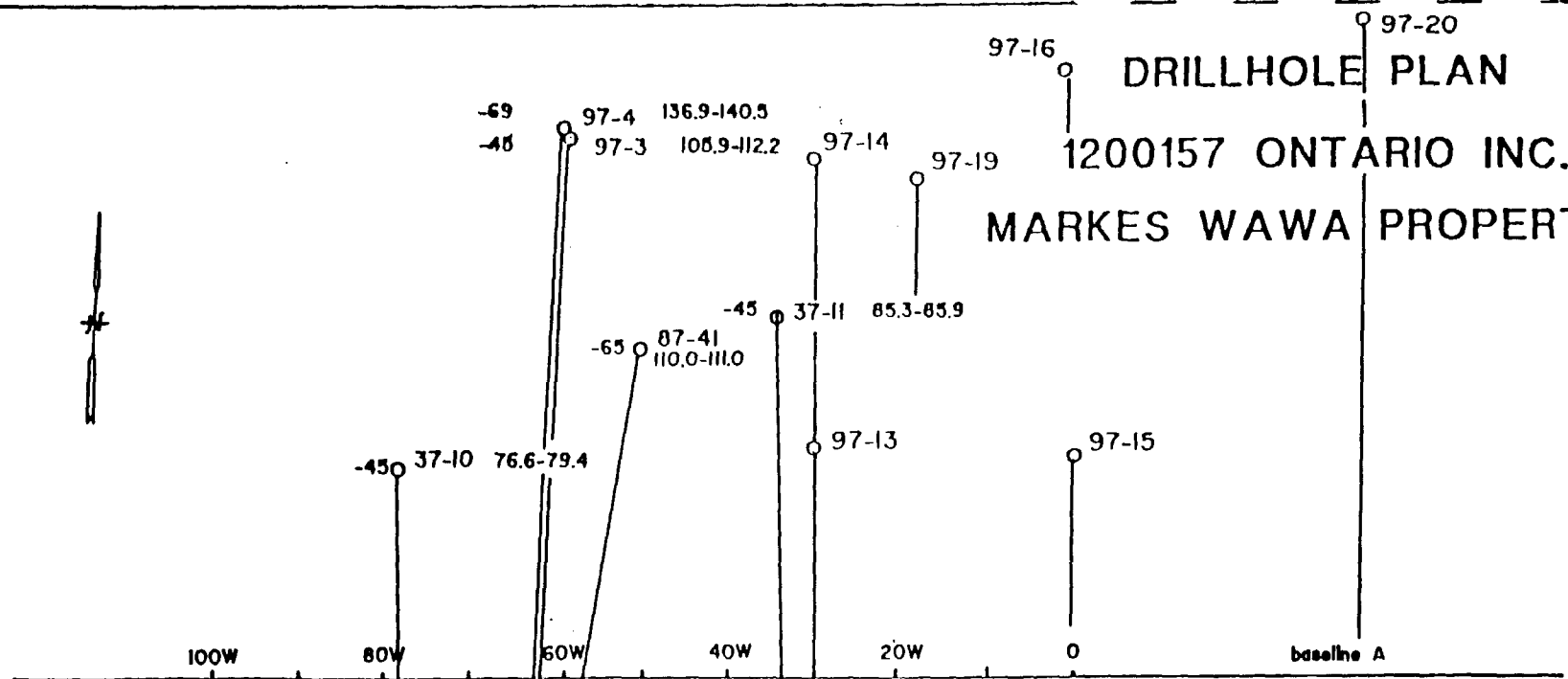
-46 86-23 60.9-63.0

HOLE # / DIP / INTERSECTION DEPTH



DRILLHOLE PLAN

1200157 ONTARIO INC.
MARKES WAWA PROPERTY



HOLE # / DIP / INTERSECTION DEPTH



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (off)

W9956.000

Assessment Files Res...



42C08SW2001 2.18548 RIGGS

900

subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, assessment work and correspond with the mining land holder. Questions about this orthern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury,

- Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

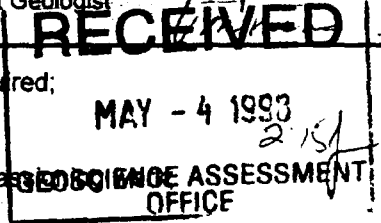
1. Recorded holder(s) (Attach a list if necessary)

Form with fields for Name, Address, Client Number, Telephone Number, and Fax Number. Includes entry for Tele Mountain Resources Inc.

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Form with checkboxes for Geotechnical, Physical, and Rehabilitation work. Includes fields for Work Type, Dates Work Performed, and Mining Division.

- Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assessment; - include two copies of your technical report.



3. Person or companies who prepared the technical report (Attach a list if necessary)

Form with fields for Name, Address, Telephone Number, and Fax Number for the technical report preparer.

4. Certification by Recorded Holder or Agent

I, Mark Hall, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Form with fields for Signature of Recorded Holder or Agent, Date, Agent's Address, Telephone Number, and Fax Number.

Deened August 02/98

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217
GEOLOGICAL ASSESSMENT
OFFICE

Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where the work was performed, at the time the work was performed. A map showing the contiguous link must accompany this form.

129850.00833

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list the hectares.	Value of work performed on this claim	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
e.g. TB7827	16 ha	\$26,825	N/A	\$ 24,000.00	\$2,825
e.g. 1234567	12	0	\$ 24,000.00	0	0
e.g. 1234568	2	\$8,892	\$ 4,000.00	0	\$4,892

5000150
5000151
5000152
153
154
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168
169.

1	2231		\$ -	\$0.00	\$ -	\$ -
2	2232		\$ -	\$0.00		\$ -
3	2233		\$ -	\$0.00		\$ -
4	539879		\$ -	\$0.00		\$ -
5	539880		\$ -	\$0.00		\$ -
6	539881		\$ -	\$0.00		\$ -
7	539882		\$ -	\$0.00		\$ -
8	539883		\$ -	\$0.00		\$ -
9	539884		\$ -	\$0.00		\$ -
10	539885		\$ -	\$0.00		\$ -
11	539886		\$ -	\$0.00		\$ -
12	539887		\$ 84,056.00	\$0.00	\$ 20,000.00	\$ 64,056.00
13	539888		\$ 57,191.00	\$0.00	\$ 20,000.00	\$ 37,191.00
14	582511		\$ -	\$0.00		\$ -
15	582512		\$ -	\$0.00		\$ -
16	582513		\$ -	\$0.00		\$ -
17	582514		\$ -	\$0.00		\$ -
18	582515		\$ -	\$0.00		\$ -
19	582516		\$ -	\$0.00		\$ -
20	582517		\$ -	\$0.00		\$ -
21	582518		\$ -	\$0.00		\$ -
22	600910	1	\$ -	\$0.00		\$ -
23	1174694	4	\$ 196,317.00	\$0.00	\$ 9,382.00	\$ 186,935.00
24	1174695	1	\$ 9,314.00	\$0.00	\$ 5,000.00	\$ 4,314.00
25	1218008	2	\$ -	\$0.00		\$ -
26	1163305	4	\$ -	\$0.00		\$ -
27	1163306	8	\$ -	\$3,200.00		\$ -
28	1163415	1	\$ -	\$0.00		\$ -
29	1163754	6	\$ -	\$0.00		\$ -
30	1164264	1	\$ -	\$400.00		\$ -
31	1164265	8	\$ -	\$1,982.00		\$ -
32	1164266	7	\$ -	\$6,400.00		\$ -
33	1164267	6	\$ -	\$7,200.00		\$ -
34	1164268	7	\$ -	\$6,400.00		\$ -
35	1164269	10	\$ -	\$9,200.00		\$ -
36	1164272	12	\$ -	\$4,800.00		\$ -
37	1164274	9	\$ -	\$3,600.00		\$ -
38	1174694	6	\$ -	\$0.00		\$ -
39	1174695	1	\$ -	\$0.00		\$ -
40	1218001	1	\$ -	\$400.00		\$ -
41	1218002	3	\$ -	\$1,200.00		\$ -
42	1218012	3	\$ -	\$1,200.00		\$ -
43	1218013	2	\$ -	\$800.00		\$ -
44	1218014	2	\$ -	\$1,200.00		\$ -
45	1218015	1	\$ -	\$400.00		\$ -
46	1218016	12	\$ -	\$4,800.00		\$ -
47	1218068	2	\$ -	\$800.00		\$ -
48	1218069	1	\$ -	\$400.00		\$ -
Column Totals	121		\$ 346,878.00	\$54,382.00	\$ 54,382.00	\$ 292,496.00

346878 54382 54382 292496

W9850-0033

I, Mark Nade, do hereby certify that the above work credits are eligible under subsection 7(1) of the Assessment Work Regulation 6/69 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Record Holder or Agent Authorized in Writing <i>[Signature]</i>	Date April 30/98
---	---------------------

6. Instructions for cutting back credits that are not approved

Some of the credits claimed in this declaration may be cut back. Please check () in the boxes to

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 as indicated.
- 2. Credits are to be cut back starting with the claims listed last working backwards; or
- 3. Credits are to be cut back equally over all the claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the bank

For Office use only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

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MAY - 4 1998
2:15
GEOSCIENCE ASSESSMENT OFFICE

Ontario

Ministry of
Northern
Development and
Mines

Statement of Costs for Assessment
Credit

Transaction Number (office use)

W 9850. 00033

Personal information collected on this form is obtained under the authority of 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, meters of drilling, kilometers of grid line, number of samples etc.	Cost Per Unit	Total Cost
diamond drilling	5478.13 metres	\$55.15	302,118.87
core logging		\$3.55	19,426.00
Associated Costs (e.g. supplies, mobilization and demobilization)			
Mob and de-mob		\$1.10	6,000.00
Supervision		\$1.04	5,718.00
(geologists and supervision)	Transportation Costs	\$0.34	1,846.00
	Food and Lodging Costs	\$2.15	11,769.00
total cost per metre		\$63.32	
Total Value of Assessment Work			\$346,878

Calculation of filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total value of Assessment Work.

2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total value of assessment work claimed

Note:

_ Work older than 5 years is not eligible for credit.

_ A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or corrections/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Mark Hall, do hereby certify, that the amounts shown are as accurate as may reasonably be

Signature <u>Mark Hall</u>	Date <u>April 30/97</u>
-------------------------------	----------------------------

RECEIVED
MAY - 4 1998
2:15
GEOSCIENCE ASSESSMENT
OFFICE

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5881

July 27, 1998

PELE MOUNTAIN RESOURCES INC.
10 TICHESTER ROAD, SUITE 307
TORONTO, ONTARIO
M5P-3M4

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.18548

Status

Subject: Transaction Number(s): W9850.00033 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at benetest@epo.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.18548

Date Correspondence Sent: July 27, 1998

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9850.00033	539887	RIGGS, JACOBSON	Deemed Approval	July 22, 1998

Section:
16 Drilling PDRILL

Correspondence to:
Resident Geologist
Sault Ste. Marie, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
Mark Hall
LIVELY, ONTARIO, CANADA

PELE MOUNTAIN RESOURCES INC.
TORONTO, ONTARIO

NOTES

400' Surface Rights Reservation around the shores of all lakes and rivers

(P) The Surface Rights Only of area within red ink, with drawn from prospecting, staking out, Sale of base under Sec. 30(4) RSO, 1980 - Order # W2/83 Wain dated Feb 24/83

Re-opened for staking July 29/86 - Order # 9-42-86 SSM 112559

Re-opened for staking July 29/86 - Order # 9-42-86 SSM 112559

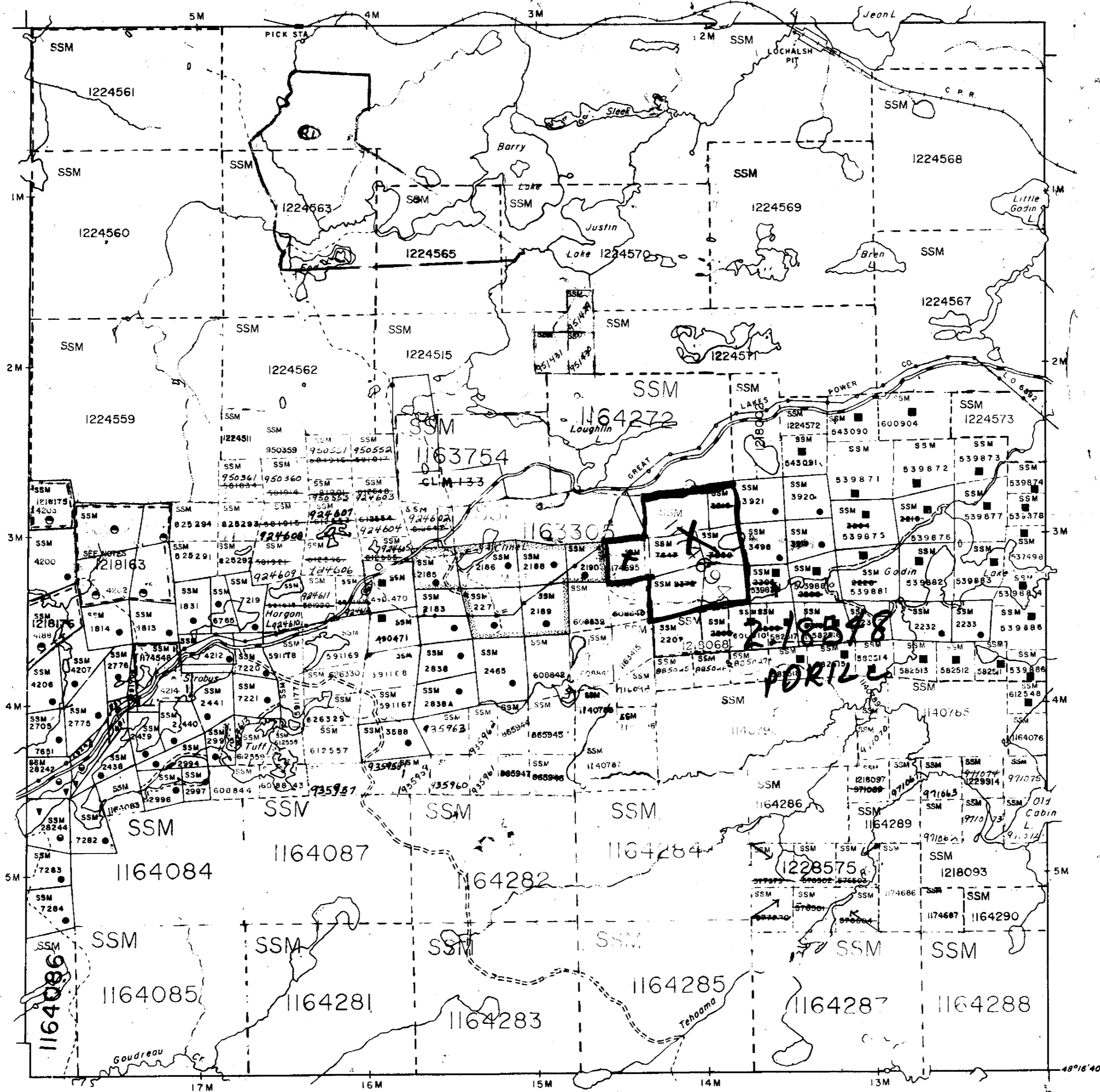
NOTES

MINING RIGHTS (SEE ONTARIO GAZETTE MAY 14/94 - OPEN FOR PROSPECTING, STAKING OUT, SALE OR LEASE AT 7:00 AM STANDARD TIME JUNE 1/94

The 1975 Magnetic Bearing Approx. Annual Change in Bearing

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LEGUERRIER TP M.1585



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS, ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MAKSH OR MUSKOGEE
- MINES

DISPOSITION OF CROWN LANDS

- | TYPE OF DOCUMENT | SYMBOL |
|---------------------------------|--------|
| PATENT, SURFACE & MINING RIGHTS | |
| SURFACE RIGHTS ONLY | |
| MINING RIGHTS ONLY | |
| LEASE, SURFACE & MINING RIGHTS | |
| SURFACE RIGHTS ONLY | |
| MINING RIGHTS ONLY | |
| LICENCE OF OCCUPATION | |
| CROWN LAND SALE | |
| ORDER-IN-COUNCIL | |
| RESERVATION | |
| CANCELLED | |

SCALE: 1 INCH = 40 CHAINS

FEET METRES

DATE OF ISSUE
ACRES HECTARES

JUL 06 1998
16
PROVINCIAL RECORDS OFFICE - SUDBURY

TOWNSHIP
JACOBSON
(Former TP. 48)
DISTRICT
ALGOMA
MINING DIVISION
SAULT STE MARIE

ONTARIO
MINISTRY OF NATURAL RESOURCES

SURVEYED BY BRANCH
DATE SEPT '72 PLAN No
WHITNEY BLOCK QUEEN'S PARK, TORONTO **M.1583**





SCALE
1:1000
0 100 200
METERS

DDH LOCATION
WAWA
Western Group
PELE MOUNTAIN RESOURCES INC.
GEOLOGICAL SURVEY

4200802001 2.18548 R1008 220

RECEIVED
MAY 4 1988
MINERAL RESOURCES DIVISION