

Visual Core Description

Observer ..... GW

Depth Interval 

1	7	0	4	1	8
---	---	---	---	---	---

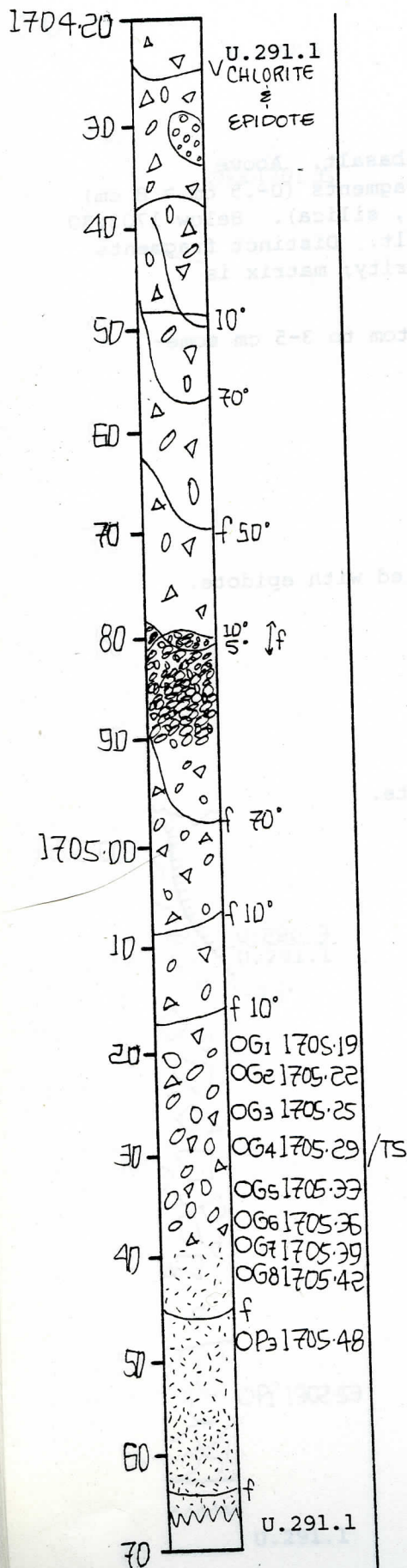
 cm to 

1	7	0	5	6	7
---	---	---	---	---	---

 cm

Box 291, Section 4

Graphic  
Representation  
Sample



### LITHOLOGY-PETROGRAPHY

Continues U.291.1

Gray-green, highly altered aphyric basalt, brecciated with basalt matrix. Between 1704.50 and 1704.80 core occurs to be massive (?) and blueish-green.

Below 1707.80 zone of highest alteration (yellow-green).

Below .90 zone similar to .50 - .80 (s.o.) grading into grey-green brecciated basalt similar to uppermost part of the section.

(Fragments of breccia  $\phi$  5 cm to 4 cm).

Internal brecciated lava flow.

### STRUCTURE

Brecciated sometimes massive.

### VESICLES/AMYGDALES

Some of the fragments filled with epidote, silica, rare chlorite.

### FRACTURES - VEINS - BRECCIA

Moderately fractured.

### ROCK ALTERATION

Highly to very high alteration.

Between .80 and .90 zone of highest alteration.

## Graphic Representation

## Sample

## Visual Core Description

Observer .....

Depth Interval 

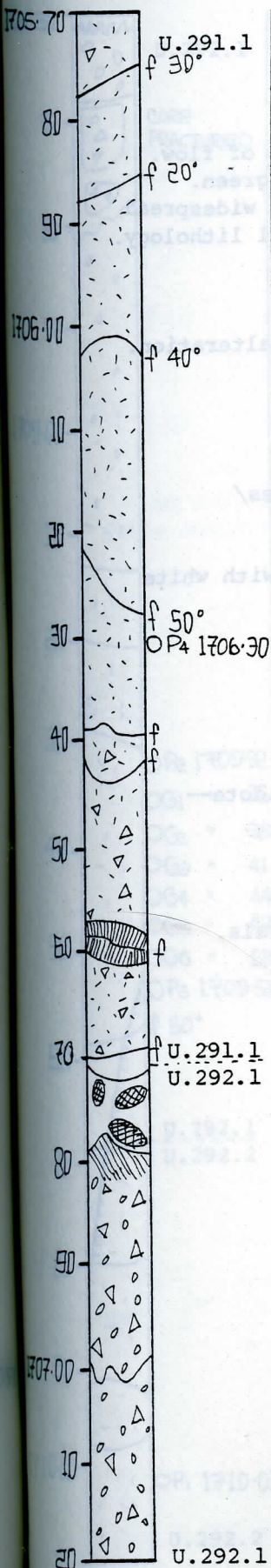
1	7	0	5	6	7
---	---	---	---	---	---

 cm to 

1	7	0	7	2	0
---	---	---	---	---	---

 cm

Box 292, Section 1



## LITHOLOGY-PETROGRAPHY

Continues U.291.1

Highly altered greenish-gray, aphyric basalt.  
Appears to be massive.

1706.05 - 1706.30. Appearance mottled with dark - light patches ~ 5 mm in size. Alteration.

Bottom U.291.1 Transition within 1 cm from massive, dense green basalt to friable green clay.

U.292.1 Core fractured-green friable clay passing into highly altered amygdoloidal basalt.

## STRUCTURE

U.291.1 Massive

U.292.1 Highly altered brecciated lava flow top.

VESICLES/AMYGDALAE

U.291.1 Some open cavities, ? calcite and ? quartz.  
< 1-2 mm ?quartz epidote.

1706.20-1706.68 ? chlorite or green clay filled  
amygdalites.

U.292.1 Abundant green-clay amygdales are interlocking  
--lighter green matrix. (1706.68-1706.92).

1706.92-1707.20 Epidote abundant. Quartz amygdaloids  
< 5 mm. Cavities filled with epidote crystals.

FRACTURES - VEINS - BRECCIA

Moderately fractured.

## ROCK ALTERATION

U.291.1 Highly altered.

U.292.1 Original minerals totally altered.



Visual Core Description

Observer RST .....

Depth Interval 

1	7	0	7	2	0
---	---	---	---	---	---

 cm to 

1	7	0	8	6	1
---	---	---	---	---	---

 cm

Box 292, Section 2

Graphic  
Representation

Sample

U.292.1

LITHOLOGY-PETROGRAPHY

Continues U.292.1

Highly altered brecciated basalt from top of flow.  
Less altered parts are mottled light-dark green.  
? after altered amygdaloidal structure but widespread  
alteration and veining observed in original lithology.

STRUCTURE

Brecciated - highly observed by pervasive alteration.

VESICLES/AMYGDALES

Cavities ? in part original vesicles.

Abundant epidote rich amygdales and vesicles/  
cavities with projecting epidote crytsals.

Silicon amygdales have clear silica core with white  
marginal zone.



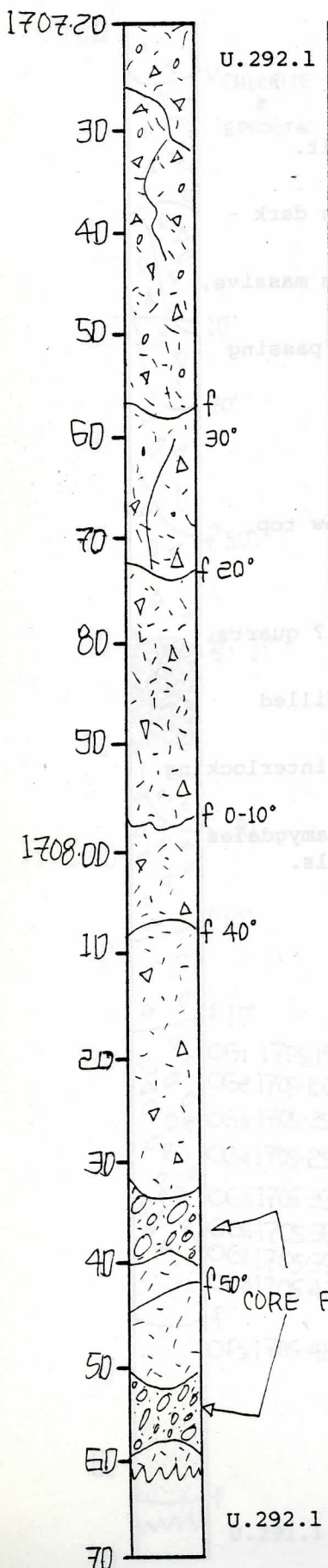
epidote - 1 cm.

FRACTURES - VEINS - BRECCIA

Pervase brecciation - veins filled with epidote--  
see core log.

ROCK ALTERATION

Rocks completely altered to secondary minerals.



Visual Core Description

Observer RST

Graphic Representation

Sample

Depth Interval 1708.61 cm to 1710.01 cm

Box 292, Section 3

U.292.1

CORE FRACTURED

LITHOLOGY-PETROGRAPHY

Continues U.292.1

Highly altered brecciated basalt flow top of U.292.1.  
See earlier.

1708.81 More massive central portion of flow. Here is highly altered-mottled green-purple or dark green aphyric basalt. Mottling covers equal portions of section.

1709.20 (same flow) Massive light green aphyric basalt ~ 10-20% dark green. Amydales and cavities of ? chlorite.

1708.68 (Mean portion of contact).

U.292.2 Fine-grained, basaltic dyke chilled against lava flow. Fine ? silica vein (<1 mm) developed along and around contact, chilled zone extent 1-2 cm from contact and shows sharp or rapidly transitional change to unchilled basalt with < 5 mm. Some irregular ? silicious patches near to this transition.

STRUCTURE

U.292.1 1708.61-1708.81 Structure obscured by alteration.

1709.81-1709.20 Mottled appearance may reflect 1° vesicles and cavities.

U.292.2 Some cavities---not 1° - see lithology.

FRACTURES - VEINS - BRECCIA

U.292.1 1708.61-1708.81 Veins and irregular fracture filled with epidote.

U.292.2 Contact. Some fine veins containing green clay or chlorite and calcite? Cut dyke.

ROCK ALTERATION

U.292.1 1708.61-1708.81 Completely altered.

1708.81-1709.68 Highly altered.

U.292.2 ? slightly altered.

U.292.1  
U.292.2

OP1 1710.01

U.292.2





Visual Core Description

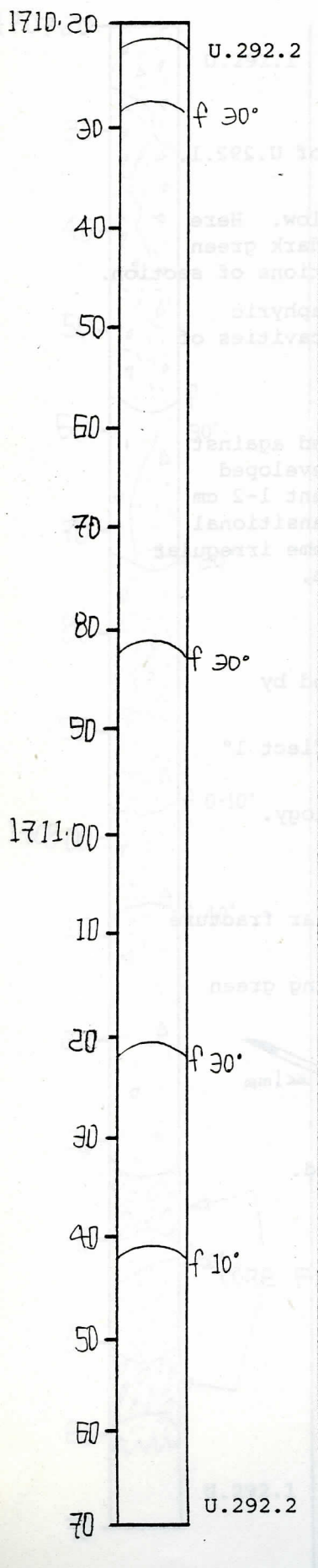
Observer RST

Depth Interval 1710.20 cm to 1711.00 cm

Box 292, Section 4

Graphic Representation

Sample



LITHOLOGY-PETROGRAPHY

Continues U.292.2

Fine-grained, basaltic dyke. Mainly equigranular but some small scattered crystals of altered plagioclase.

STRUCTURE

Massive

VESICLES/AMYGDALES

None.

FRACTURES - VEINS - BRECCIA

Fine veins of chlorite, pyrite ? calcite 0.5 ~ 1 mm. Cut across dyke at < 50°. Fine veins < 0.5 m run along dyke for several 10's of cm.

ROCK ALTERATION

? slight alteration.

Graphic  
Representatio

Sample

Depth Interval 

1	7	1	1	7	6
---	---	---	---	---	---

 cm to 

1	7	1	3	2	8
---	---	---	---	---	---

 cm

Box 293, Section 1

U.292.2

LITHOLOGY-PETROGRAPHY

Continues U.292.2

Finer grained basaltic dyke. Some small scattered crystals of plagioclase (&lt; 5%).

1712.70 Altered plagioclase crystals more abundant.

STRUCTURE

Massive

VESICLES/AMYGDALES

None

FRACTURES - VEINS - BRECCIA

Fine fractures.

See earlier.

ROCK ALTERATION

? slight alteration.

f 40°

f 20°

f 20°

V

↑  
7cm  
↓

CORE FRAGMENTED; PARTIALLY GROUND

U.292.2



## Visual Core Description

Observer .....

Depth Interval 

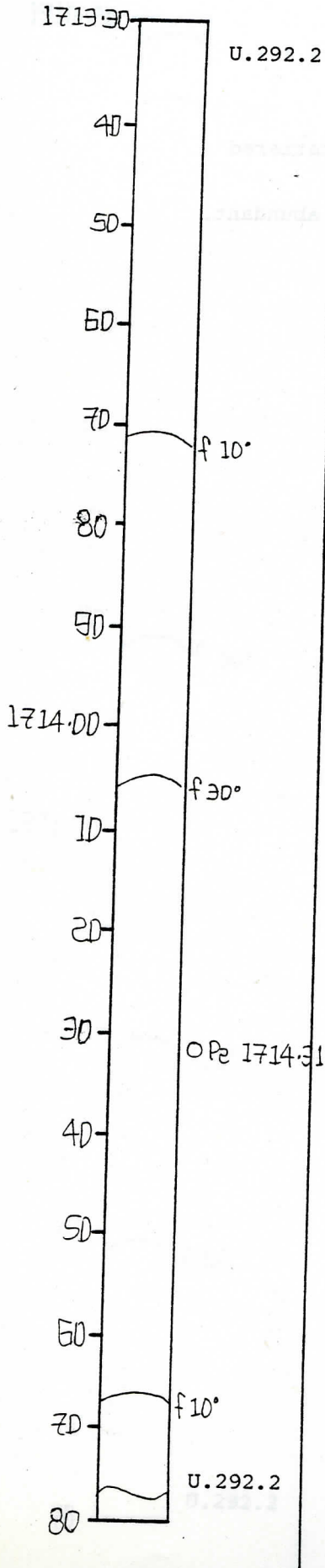
1	7	1	3	2	8
---	---	---	---	---	---

 cm to 

1	7	1	4	8	2
---	---	---	---	---	---

 cm

Box 293, Section 2

LITHOLOGY-PETROGRAPHY

Continues U.292.2

Fine grained basaltic dyke, some scattered pyrite crystals &lt; 2-3 mm.

1713.90 Grain size slightly coarse - 0.1-0.5 mm plagioclase grains ~ 0.5 mm.

STRUCTURE

Massive

VESICLES/AMYGDALES

None

FRACTURES/VEINS/BRECCIA

Fine fractures - see earlier.

ROCK ALTERATION

? slight alteration

Graphic  
Representation

Sample

Depth Interval 

1	7	1	4	8	2
---	---	---	---	---	---

 cm to 

1	7	1	6	2	9
---	---	---	---	---	---

 cm

Box 293, Section 3

U.292.2

LITHOLOGY-PETROGRAPHY

Continues U.292.2

Fine grained basaltic dyke, scattered pyrite, grain size range 0.1-0.5 mm.

STRUCTURE

Massive

VESICLES/AMYGDALES

None

FRACTURES/VEINS/BRECCIA

Fine fractures - see earlier.

ROCK ALTERATION

? slight alteration.

Core Ground  
undown

U.292.2



Visual Core Description

Observer .....

Depth Interval 

1	7	1	6	2	9
---	---	---	---	---	---

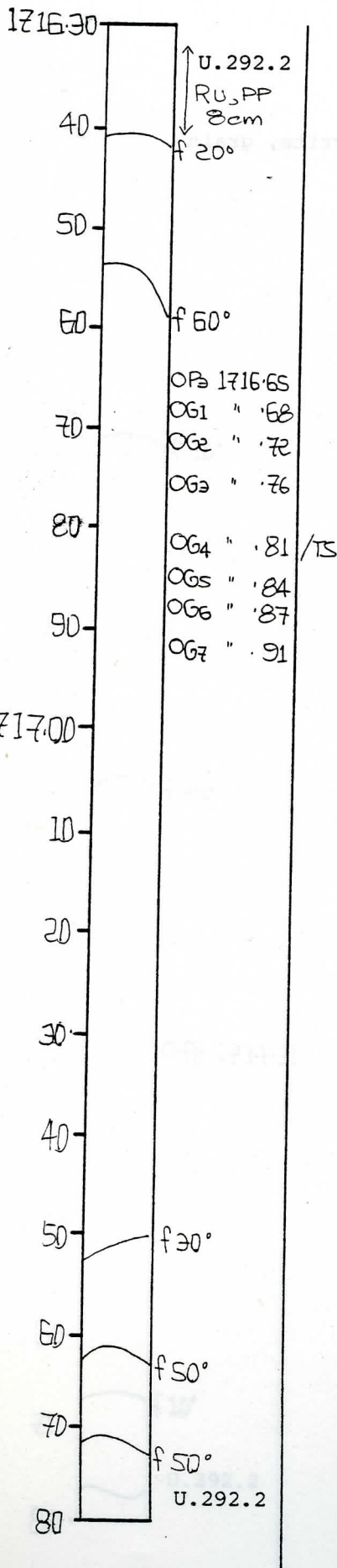
 cm to 

1	7	1	7	8	2
---	---	---	---	---	---

 cm

Box 293, Section 4

Graphic  
Representation  
Sample



LITHOLOGY-PETROGRAPHY

Continues U.292.2

Fine-grained basaltic dyke.

STRUCTURE

Massive

VESICLES/AMYGDALES

None

FRACTURES - VEINS - BRECCIA

Fine fractures - see earlier.

ROCK ALTERATION

? slight alteration.

Observer .....

Visual Core Description

Depth Interval 

1	7	1	7	8	2
---	---	---	---	---	---

 cm to 

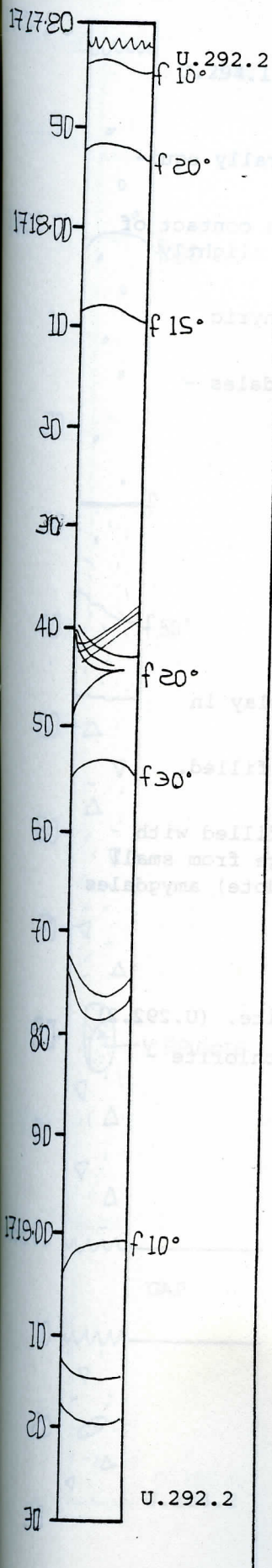
1	7	1	9	3	1
---	---	---	---	---	---

 cm

Box 294, Section 1

Graphic Representation

Sample



LITHOLOGY-PETROGRAPHY

Continues U.292.2

Fine grained basaltic dyke--generally equigranular but occasionally large plagioclase crystals altered ~ 0.5 mm, and pyrite crystals scattered (1-2 mm).

STRUCTURE

Massive

VESICLES/AMYGDALES

None, (vesicles). Amygdales - rare silica-chlorite 1-2 mm.

FRACTURES - VEINS - BRECCIA

Fine veins < 1 mm.

Vein system - epidote - calcite - zeolite (1718.40).



Visual Core Description

Observer .....

Depth Interval 

1	7	1	9	3	1
---	---	---	---	---	---

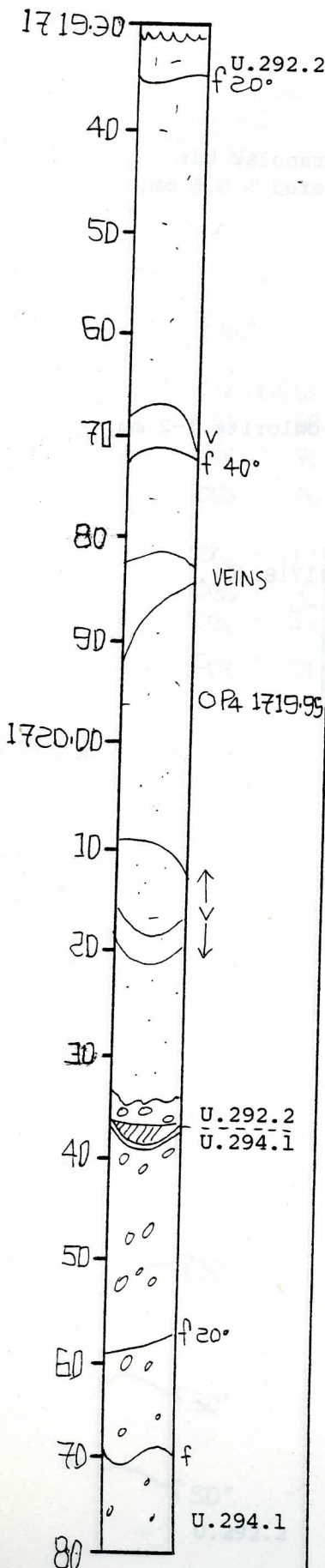
 cm to 

1	7	2	0	8	3
---	---	---	---	---	---

 cm

Box 294, Section 2

Graphic  
Representation  
Sample



### LITHOLOGY-PETROGRAPHY

Continues U.292.2

U.292.2 Fine grained basaltic dyke. Generally equigranular scattered pyrite crystals.

Bottom of U.292.2 Fine grey - light green contact of dyke exposed on fracture surface. Contact slightly irregular but form obscured by fracture.

U.294.1 Greenish-grey, highly altered, aphyric amygdaloidal basalt lava.

1720.60-1720.75 Well-formed, rounded amygdales - chlorite, epidote or quartz in core.

### STRUCTURE

U.292.2 Massive

U.294.1 Massive

### VESICLES/AMYGDALES

Vesicles - None.

Amygdales - None, some chlorite or green clay in cavities.

U.294.1 Occasional cavities incompletely filled. (vesicles).

Amygdales - Abundant, generally 0.5-2 mm filled with green ? chlorite epidote and quartz. Range from small chloritic amygdales to large (chlorite-epidote) amygdales and cavities.

### FRACTURES - VEINS - BRECCIA

Fine - veins chlorite and calcite or zeolite. (U.292.2)

U.294.1 Fractures filled with epidote - chlorite - quartz assemblage.

### ROCK ALTERATION

U.292.2 ? slight alteration.

U.294.1 Highly altered.

Depth Interval 

1	7	2	0	8	3
---	---	---	---	---	---

 cm to 

1	7	2	4	3	1
---	---	---	---	---	---

 cm

Box 294, Section 3

Graphic  
Representation

Sample

U.294.1

LITHOLOGY-PETROGRAPHY

Continues U.294.1

Greenish-gray, highly altered aphyric amygdaloidal basaltic lava.

Brecciated zone pushed out by variegated alteration.

U.294.2 Cavities in fragments - Pieces here may have core missing between. They are highly altered brecciated amygdaloidal basalt with cavities containing epidote 15-10 mm -zeolite with silica. They might form a separate unit (? top of or underlying lava flow) but not so classified--see discussion below.

Massive dark fine-grained amygdaloidal aphyric basalt. Chlorite patches - circles at irregular fragments. Because similar to unit below gap, both classified as 294.2.

17722.00-1724.09 GAP IN HERE CAUSED BY GRINDING UP OF CORE - 2.08 m.

U.294.2 As above 'gap' very little amygdaloidal.

STRUCTURE

U.294.1 Massive amygdaloidal-altered.

Brecciated.

Brecciated veined - cavities lined with epidote, clays.

VESICLES/AMYGDALES

Vesicles - rare, 1-2 only, have dull clay or ?epidote lining walls.

1721.85 - On fragments, white crystals, quartz projecting into cavity.

U.294.2 - quartz continues. Vesicles - (1-2% amygdales). Patch 2 cm - containing epidote amygdales.

Amygdales - U.294.1 - filled with chlorite (generally smaller size < 1-2 mm). Large amygdales, 2-20 mm have cores of calcite and zeolite.

1721.85 - Amygdales - chlorite ± epidote 10-20%.

FRACTURES - VEINS - BRECCIA

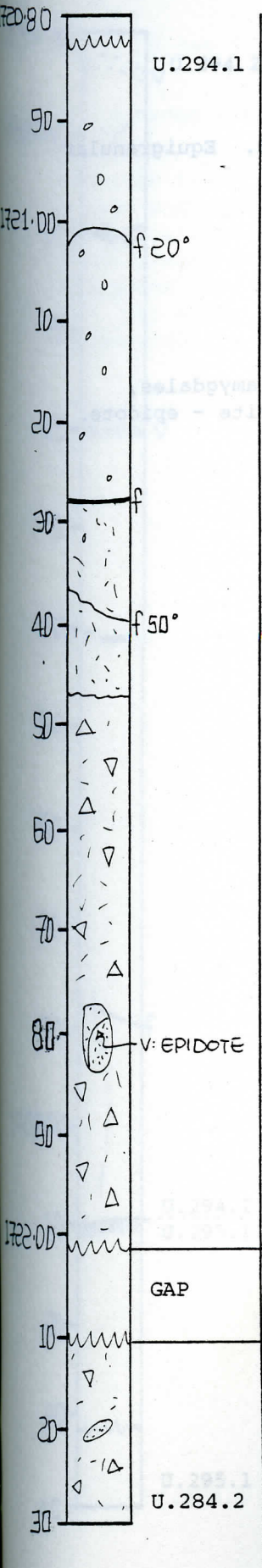
U.294.1 Brecciated

1721.85 - downward. Chlorite and epidote.

ROCK ALTERATION

U.294.1 Highly altered.

1721.85 - Moderately altered.





Visual Core Description

Observer .....

Depth Interval 172431 cm to 172585 cm

Box 294, Section 4

Graphic  
Representation

Sample

1724.30

U.294.2

40

V: EPIDOTE

50

BREAK - NO CORE

60

OG1 172460

OG2 " 64

OG3 " 67

70

OG4 " 71 /TS

OG5 " 75

80

OG6 " 78

OG7 " 81

OG8 " 83

OP2 " 87

90

1725.00

10

V

20

30

40

f 30°

50

60

70

80

U.294.2

# LITHOLOGY-PETROGRAPHY

Continues U.294.2

Massive, dark fine-grained, aphyric basalt. Equigranular  
--but occasional plagioclase crystals.

## STRUCTURE

Massive

## VESICLES/AMYGDALES

Amygdales - calcite and quartz as rounded amygdales,  
sparsely scattered occasionally with chlorite - epidote.

## FRACTURES - VEINS - BRECCIA

Occasionally few veins of epidote.

# ICELAND RESEARCH DRILLING PROJECT - REYDARFJORDUR 1978

Visual Core Description

Observer .....

Depth Interval 

1	7	2	5	8	5
---	---	---	---	---	---

 cm to 

1	7	2	7	3	1
---	---	---	---	---	---

 cm

Box 295, Section 1

Graphic  
Representation

Sample

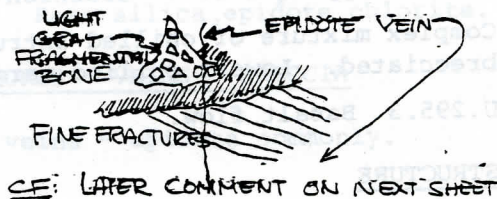
## LITHOLOGY-PETROGRAPHY

Continues U.294.2

Greenish-gray, holocrystalline, medium-grained, aphyric, basalt.

1727.10 Fine-grained material, possibly chilled against coarser grained rock or just alteration zone.

U.295.1



CF: LATER COMMENT ON NEXT SHEET

## STRUCTURE

U.294.2 Massive, isotropic

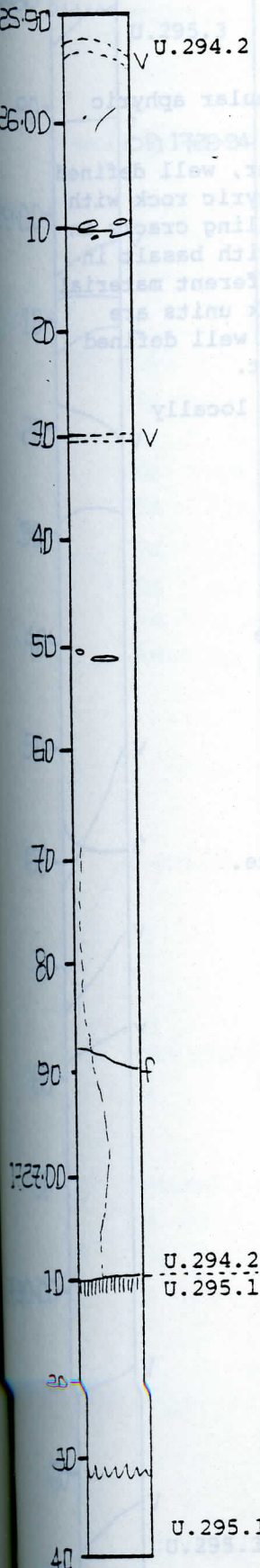
U.295.1 Basalt, Intrusion?

## VESICLES/AMYGDALES

Vesicles, irregular, filled with massive, white silica, green epidote, zeolite that is colorless, unknown mineral. Vesicles as wide as core, to 1 mm wide. Black smectite filling some vesicles.

## FRACTURES - VEINS - BRECCIA

Vein at 1726.30 filled with green epidote and quartz.





## Visual Core Description

Observer .....

Depth Interval 

1	7	2	7	3	1
---	---	---	---	---	---

 cm to 

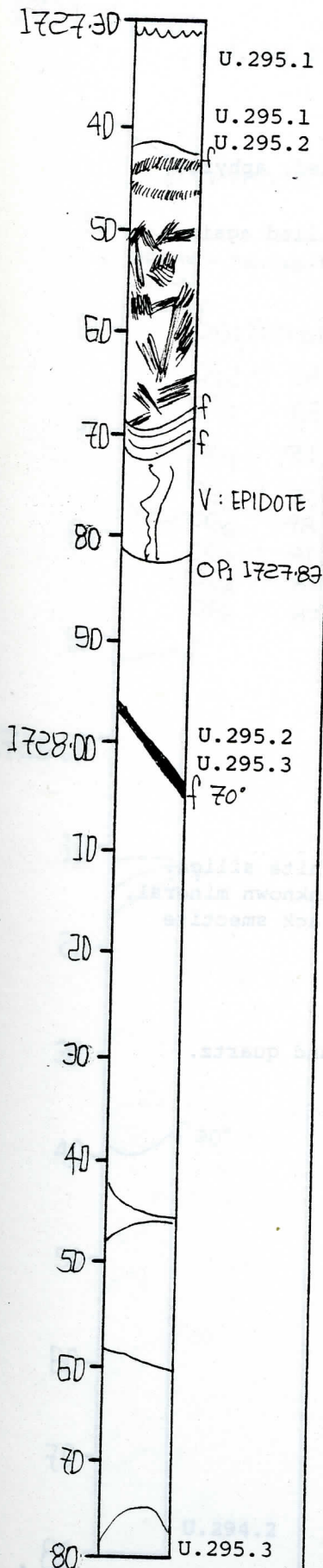
1	7	2	8	8	1
---	---	---	---	---	---

 cm

Box 295, Section 2

Graphic  
Representation

Sample

LITHOLOGY-PETROGRAPHY

Continues U.295.1 Greenish gray, equigranular aphyric basalt.

U.295.2 In this section there is irregular, well defined intrusions of lighter color plagioclase-phyric rock with the dyke. They form sharp sided veins filling cracks in some places--irregular margins--mixtures with basalt in others. Might be hybrid or mixture of different material within same unit. Near it at 70 - two dark units are smeared together forming complex unit with well defined planar dipping @ 60°. Greenish-gray basalt.

Complex mixture of chilled intrusive vein, locally brecciated. Lowest chilled margin.

U.295.3 Basalt flow.

STRUCTURE

U.295.1 Massive

U.295.2 Complex basalt intrusion. Massive

VESICLES/AMYGDALES

U.295.1 Occasional chlorite, quartz.

FRACTURES - VEINS - BRECCIA

U.295.1 Veins with epidote, calcite, pyrite.

U.295.2 Parallel fracture and flow - 70°.

ROCK ALTERATION

Moderate. Chlorite - epidote alteration.

Graphic  
Representation

Sample

Depth Interval 

1	7	2	8	8	1
---	---	---	---	---	---

 cm to 

1	7	3	0	3	3
---	---	---	---	---	---

 cm

Box 295, Section 3

U.295.3

LITHOLOGY-PETROGRAPHY

Continues U.295.3

Greenish-gray, equigranular, aphyric basalt. Grain size fine throughout section.

STRUCTURE

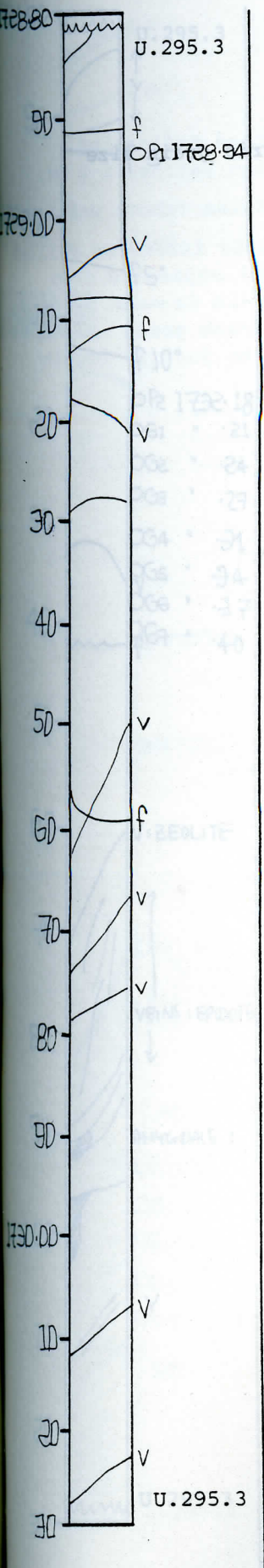
Massive

VESICLES/AMYGDALES

None. Rare silica, epidote, chlorite.

FRACTURES - VEINS - BRECCIA

Rare veins - epidote commonly.





Visual Core Description

Observer .....

Depth Interval 

1	7	3	0	3	3
---	---	---	---	---	---

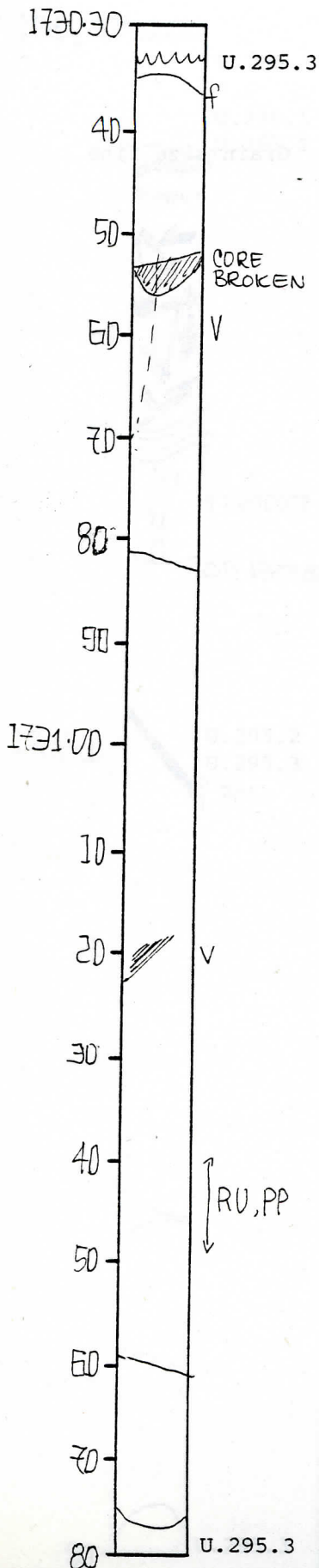
 cm to 

1	7	3	1	8	1
---	---	---	---	---	---

 cm

Box 295, Section 4

Graphic  
Representation  
Sample



LITHOLOGY-PETROGRAPHY

Continues U.295.3

Greenish-gray, equigranular basalt. Aphyric grain size fine throughout section.

STRUCTURE

Massive

VESICLES/AMYGDALES

None. Rare-silica.

FRACTURES - VEINS - BRECCIA

Veins - chlorite-zeolite-epidote.

ROCK ALTERATION

Moderate - chlorite-epidote.

Visual Core Description

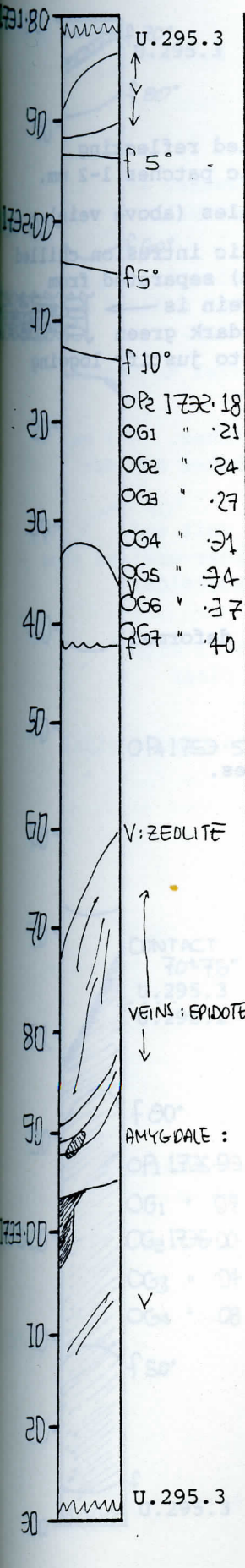
Observer .....

Graphic  
Representation

Sample

Depth Interval 173181 cm to 173329 cm

Box 296, Section 1



LITHOLOGY-PETROGRAPHY

Green-gray, aphyric basaltic, grain size fine in section.

STRUCTURE

Massive

VESICLES/AMYGDALES

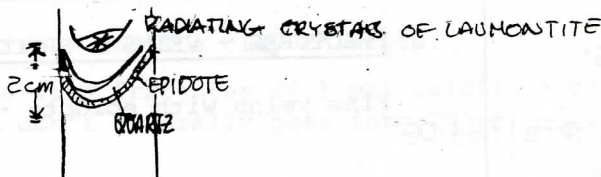
Vesicles - none.

Amygdales - scattered chlorite, amygdales, some epidote  
± silica amygdales. < 1%.

FRACTURES - VEINS - BRECCIA

Fine veins (see core) filled in epidote and zeolite  
(? laumontite). Few radiating crystals on traverse  
fractures.

1732.50-1732.70 Vein complex, filled with epidote and  
laumontite. Couples infilled vein.



AMYGDAL: SEE SKETCH



Graphic  
Representation

Sample

Depth Interval 

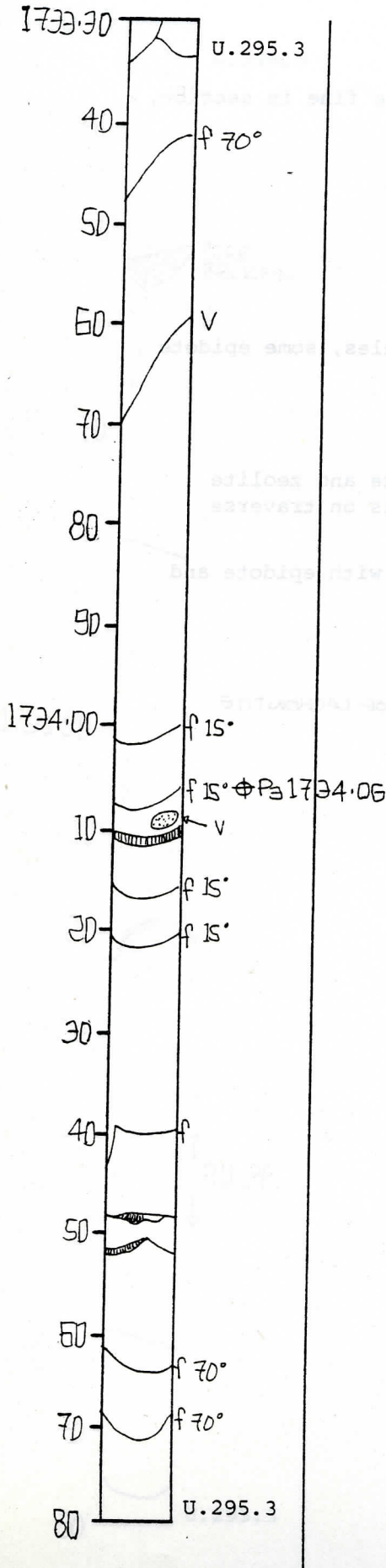
1	7	3	3	2	9
---	---	---	---	---	---

 cm to 

1	7	3	4	8	1
---	---	---	---	---	---

 cm

Box 296, Section 2

LITHOLOGY-PETROGRAPHY

Continues U.295.3

Green-gray, aphyric basaltic, appears mottled reflecting alteration. Occasionally cores of chloritic patches 1-2 mm.

1734.09 Small 11 cm<sup>2</sup> area with silica amygdales (above vein).

1734.10 Small < 1.5 cm veins--dark, basaltic intrusion chilled against basalt 294.1. Chilled zone (1-2 mm) separated from basalt by clay vein. Over 1/2 or core in vein is brecciated. Elongate fractures filled with dark green ? chloritic centres. Considered too small to justify logging as separate unit.

STRUCTURE

Massive

VESICLES/AMYGDALES

Vesicles - none

Amygdales - some chloritic patches might be deformed amygdales.

FRACTURES - VEINS - BRECCIA

Fine veins with epidote - chlorite - zeolites.

Visual Core Description

Observer .....

Depth Interval 

1	7	3	4	8	1
---	---	---	---	---	---

 cm to 

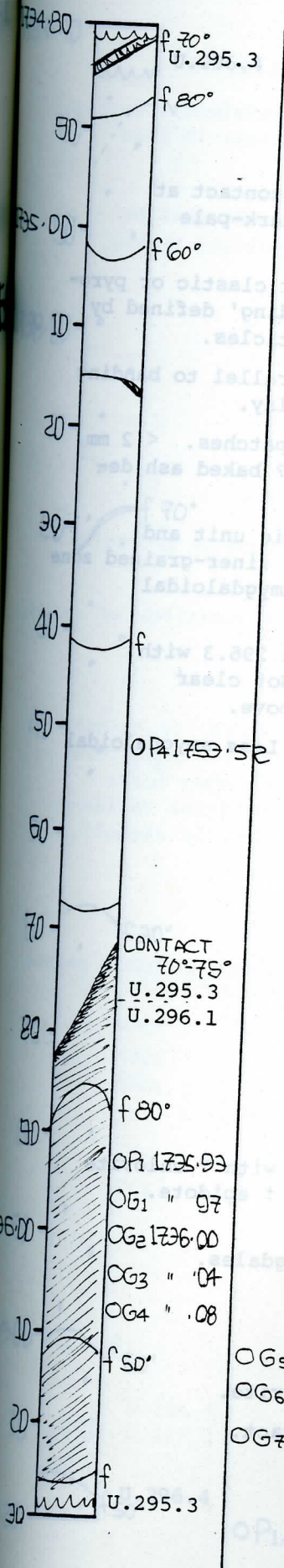
1	7	3	6	2	9
---	---	---	---	---	---

 cm

Box 296, Section 3

Graphic Representation

Sample



LITHOLOGY-PETROGRAPHY

Continues U.295.3

Gray-green, aphyric basaltic, mottled chloritic patches 1-2 mm. Have irregular form--angular-subangular etc.

U.296.1 Chilled contact cuts through amygdale. String of basaltic intrusion 294.1. Chilled zone 4 mm, lighter coloured near to contact, darker further away. Main body of dyke is very fine-grained, aphyric basalt, aphyric, very fine even gray colour. Contact is at 75°.

STRUCTURE

U.295.3 Massive

U.296.1 Massive

VESICLES/AMYGDALES

Amygdales - occasional silica.

U.296.1 None

FRACTURES - VEINS - BRECCIA

Some fine veins - zeolite clay chlorite.

U.296.1 Some fine fractures (< 1 mm) calcite + chlorite cut dyke but don't generally pass into 294.1.



Visual Core Description

Observer .....

Depth Interval 

1	7	3	6	2	9
---	---	---	---	---	---

 cm to 

1	7	3	7	7	4
---	---	---	---	---	---

 cm

Box 296, Section 4

LITHOLOGY-PETROGRAPHY

Continues U.296.1

Fine-grained, dark, basaltic dyke, aphyric.

Chilled contact of dyke with 296.2. Like contact at 1735.76 ~1/2 finely chilled. From dyke--dark-pale grey-green zones to actual contact.

U.296.2 Fine, reddish-brown, equigranular clastic or pyroclastic rock unit. Fine, indistinct 'banding' defined by orientation of light and dark clastic particles.

1736.75 Here is a finer grained layer parallel to banding defined above. Cut by vein of chlorite-clay.

Lamination defined by elongate chloritic patches. &lt; 2 mm. Dips at 10-20°. Interpreted as indented ? baked ash deposit.

U.296.3 Sharp contact, between pyroclastic unit and amygdaloidal basalt lava flow. Bleached, finer-grained zone near contact. ? May be intrusive gray, amygdaloidal aphyric basalt.

Rapid contact between amygdaloidal basalt 296.3 with greenish-gray less amygdaloidal below. Not clear if 296.3 is separate but distinguished above.

U.296.4 Greenish-gray, aphyric basalt. Less amygdaloidal than unit above.

STRUCTURE

U.296.1 Massive

U.296.2 Massive

U.296.3 Massive

U.296.4 Massive

VESICLES/AMYGDALES

U.296.1 None

U.296.2 Elongated chloritic amygdales

U.296.3 Abundant white amygdales lined with ? chlorite or green smectite. Filled with zeolite ± epidote. Abundant amygdales as above (1737.34).

U.296.4 Chloritic patches, calcite amygdales.

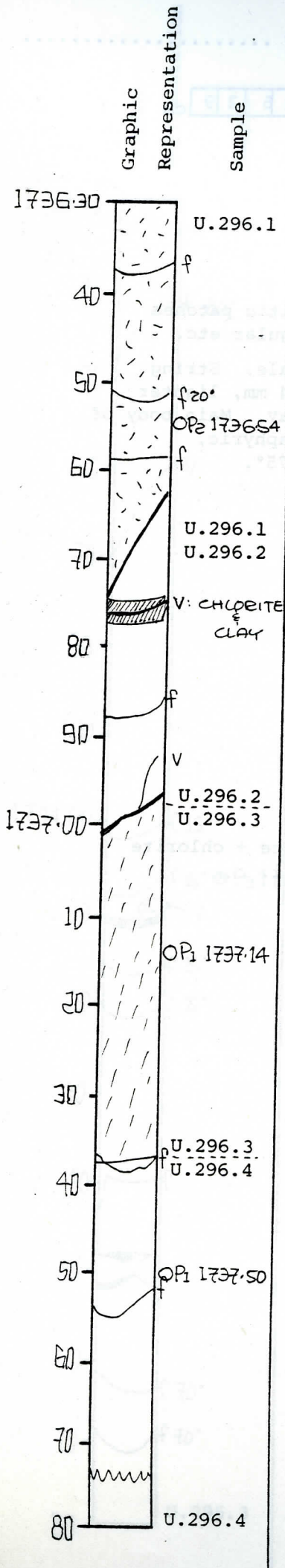
FRACTURES - VEINS - BRECCIA

U.296.1 Some fine veins with calcite.

Veins along contact - epidote-silica-pyrite.

U.296.2 Veins with pyrite near to contact.

U.296.4 Calcite vein.



Visual Core Description

Observer RST .....

Graphic Representation

Sample

Depth Interval 

1	7	3	7	7	4
---	---	---	---	---	---

 cm to 

1	7	3	9	2	2
---	---	---	---	---	---

 cm

Box 297, Section 1

U.296.4

LITHOLOGY-PETROGRAPHY

Continues U.296.4

Gray-green, aphyric, amygdaloidal basalt with major variation in abundance with distribution of amygdales.

1738.00-1738.30 Water absorbed rapidly into rock in this region. Rock is similar but lighter color - dark flecks in groundmass.

Matrix of rock slightly lighter--but grey-green aphyric basalt as above.

STRUCTURE

Massive

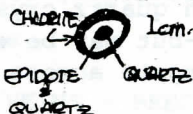
VESICLES/AMYGDALES

Vesicles -

Amygdales - Some amygdales not completely filled. Scattered amygdales form 10-20% of rock. Size generally in range 1-5 mm. Filled with complex mixtures of chlorite zeolite. Calcite clays.

1738.00-1738.30 Some larger amygdales  $\angle$  5-10 mm. lined with chlorite or epidote filled with quartz.

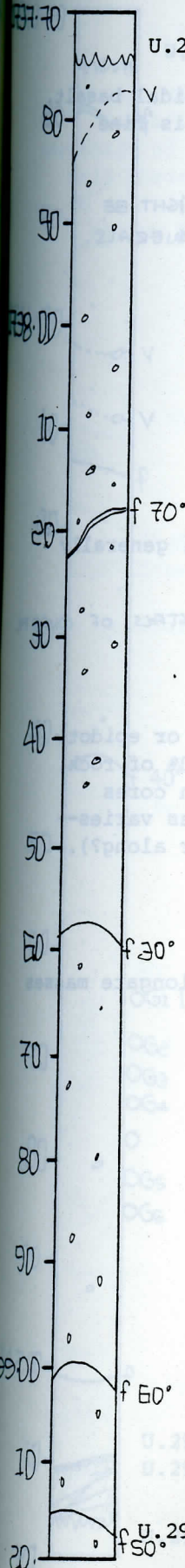
5-10% of rock is chlorite-quartz amygdales.



FRACTURES - VEINS - BRECCIA

Few veins, clay.

Large amygdales coalesce into irregular fractions 5 cm in epidote and quartz.



OP1A 1738.20



Graphic  
Representation

Sample

Depth Interval 

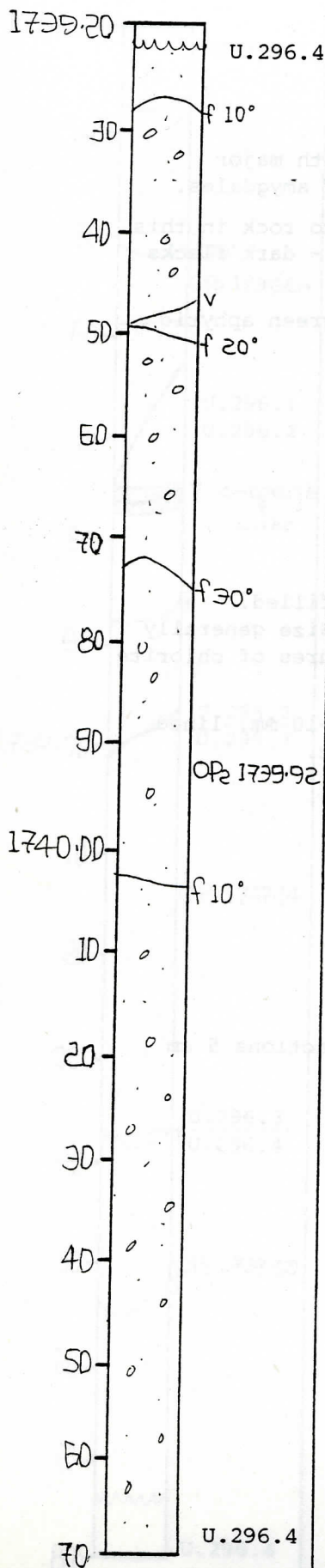
1	7	3	9	2	2
---	---	---	---	---	---

 cm to 

1	7	4	0	7	5
---	---	---	---	---	---

 cm

Box 297, Section 2

LITHOLOGY-PETROGRAPHY

Continues U.296.4 Gray-green, aphyric, amygdaloidal basalt. Main variation is in size of amygdales. Basalt is fine mottled dark-light texture.

AMYGDALOIDES IN CORE SMALLER  
CHLORITE PATCHES IN MASS MIGHT BE  
CAVITIES OR ALTERED MINERALS.

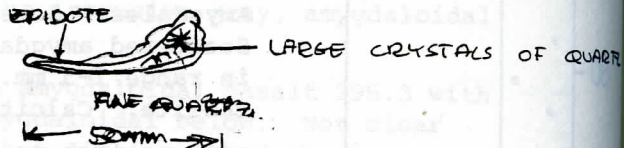
Texture slightly coarse to base of core.

STRUCTURE

Massive

VESICLES/AMYGDALOIDES

Throughout scattered large amygdales are common, generally 5-50 mm in size.



They may be lined with chlorite-green smectite, or epidote infilled with quartz  $\pm$  epidote overall form 5-10% of rock. Most are completely infilled but a few have open cores infilled with quartz crystals. Form of amygdales varies--some rounded-but may be elongate across core (or along?). Most are elongate across core?

FRACTURES - VEINS - BRECCIA

Fine veins only, but some amygdales pass into elongate masses like fractures.

Graphic  
Representation

Sample

Visual Core Description

Observer .....

Depth Interval 

1	7	4	0	7	5
---	---	---	---	---	---

 cm to 

1	7	4	2	1	7
---	---	---	---	---	---

 cm

Box 297, Section 3

U.296.4

# LITHOLOGY-PETROGRAPHY

Continues U.296.4

Green-gray, aphyric basalt, amygdaloidal. Major changes in abundance of amygdales but texture is slightly coarser than higher sections--steady but slight coarsening downwards.

Basaltic rock coarsens slightly towards contact. Texture picked out in green-light contrast.

U.297.1 Fine chilled contact of intrusion against lava. Chill has dark basalt 2 mm light green, 2 mm thin, fine-medium basaltic rock.

# STRUCTURE

Massive

U.297.1 Massive

# VESICLES/AMYGDALES

U.296.4 Amygdales have structure described earlier. To 1741.15 amygdales abundant < 1-3 cm, quartz ± epidote lined cavities generally elongated across core, occasionally joined with discontinuous quartz vein.

1741.12 Amygdales much less abundant here (< 5%) - fairly rounded quartz filled.

U.297.1 None

# FRACTURES - VEINS - BRECCIA

U.297.1 Fine-fractures along parallel to contact filled with laumontite, epidote - pyrite.

OG1 1741.65

OG2 " .68

OG3 " .71

OG4 " .74

O " .78

OG5 " .81

OG6 " .85

U.296.4

U.297.1

U.297.1



Visual Core Description

Observer .....

Graphic  
Representation

Sample

Depth Interval 

1	7	4	2	1	7
---	---	---	---	---	---

 cm to 

1	7	4	3	7	0
---	---	---	---	---	---

 cm

Box 297, Section 4

LITHOLOGY-PETROGRAPHY

Continues U.297.1 Fine green-gray, aphyric basaltic rock. Free of amygdalae, equigranular, homogeneous to 1742.40 there is complex interval brecciation of veining in which the fine basaltic rock is mixed with chilled (or altered) fine grained rock. May be complex interval flow brecciation or mixing of contrasted melts. Basalt has scattered pyrite crystals.

STRUCTURE

Massive

VESICLES/AMYGDALES

None

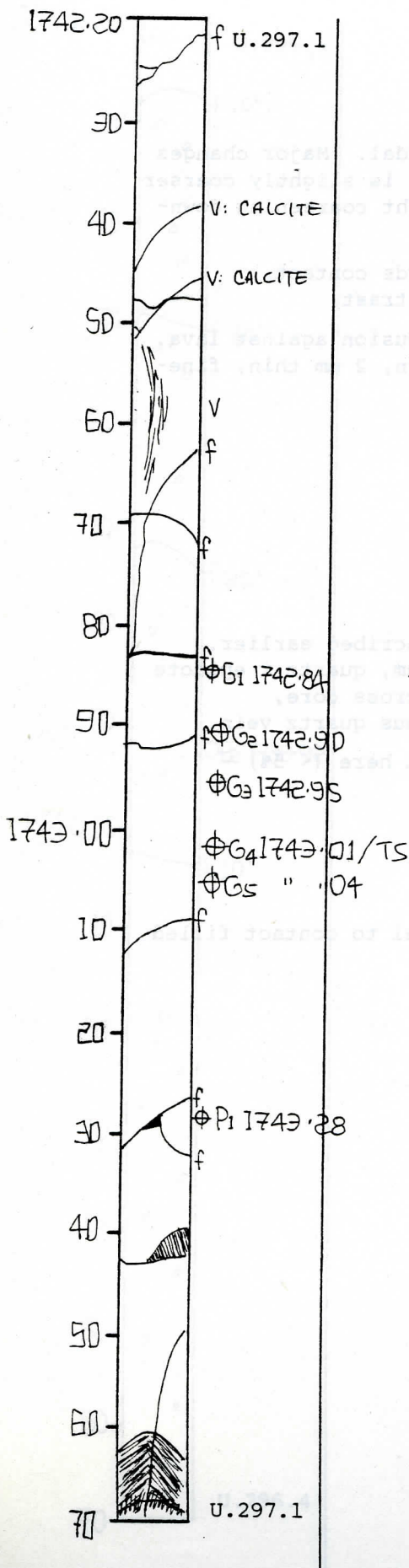
FRACTURES - VEINS - BRECCIA

Fine veins with calcite zoelite, green smectite.

Vein 2 mm - calcite-quartz, green smectite or chlorite.

ROCK ALTERATION

? Slight.



Visual Core Description

Observer RST

Graphic Representation

Sample

Depth Interval 174370 cm to 174505 cm

Box 298, Section 1

U.297.1

LITHOLOGY-PETROGRAPHY

Continues U.297.1

Grey-fine grained, equigranular, aphyric basalt. Fine dark basalt at top of core, texture gradually changes to lighter coloured, slightly more medium grained--mottled or a very fine scale reflecting alteration.

STRUCTURE

Massive

VESICLES/AMYGDALES

None

FRACTURES - VEINS - BRECCIA

Fine, fractures filled with chlorite or green smectite zeolite.

OP<sub>2</sub> 1744.21  
w No core

w No core

f 20°

OP<sub>3</sub> 1745.01

U.297.1



Graphic  
Representation

Sample

Depth Interval 

1	7	4	5	0	5
---	---	---	---	---	---

 cm to 

1	7	4	6	4	5
---	---	---	---	---	---

 cm

Box 298, Section 2

1745.00

U.297.1

LITHOLOGY-PETROGRAPHY

Continues U.297.1

Gray-fine grained equigranular, aphyric basalt. Textures and colour resemble deeper part of Section 1.

STRUCTURE

Massive

VESICLES/AMYGDALES

Amygdales - Occasional cavities 2 cm lined with chlorite - quartz. Some spongy masses of chlorite and quartz. These are generally at top < 1745.25.

FRACTURES - VEINS - BRECCIA

Fine veins, most commonly with chlorite - green smectite. Occasionally zeolite.

10

20

30

40

50

60

70

80

90

1746.00

10

20

30

40

50

U.297.1

Graphic  
Representation

Sample

Visual Core Description

Observer .....

Depth Interval 

1	7	4	6	4	5
---	---	---	---	---	---

 cm to 

1	7	4	7	8	5
---	---	---	---	---	---

 cm

Box 298, Section 3

LITHOLOGY-PETROGRAPHY

Continues U.297.1

Grey-green, equigranular aphyric basalt. Medium - fine grained as in Section 2. Scattered pyrite crystals.

Textures becomes finer grained towards base.

STRUCTURE

Massive

VESICLES/AMYGDALES

Cavities filled with range of minerals.

FRACTURES - VEINS - BRECCIA

1746.00-1746.72 Veins have green chlorite, some sheared fabric.

1746.83 Vein 4-8 mm cuts across width of core 70-80°. Composition chiefly of fine quartz? + green ? chlorite. Also fine siliceous veins.

1747.16 Angular cavity 1 x 3 cm. Filled with quartz - minor chlorite and calcite.

Small veins < 5 mm - quartz-epidote-chlorite.

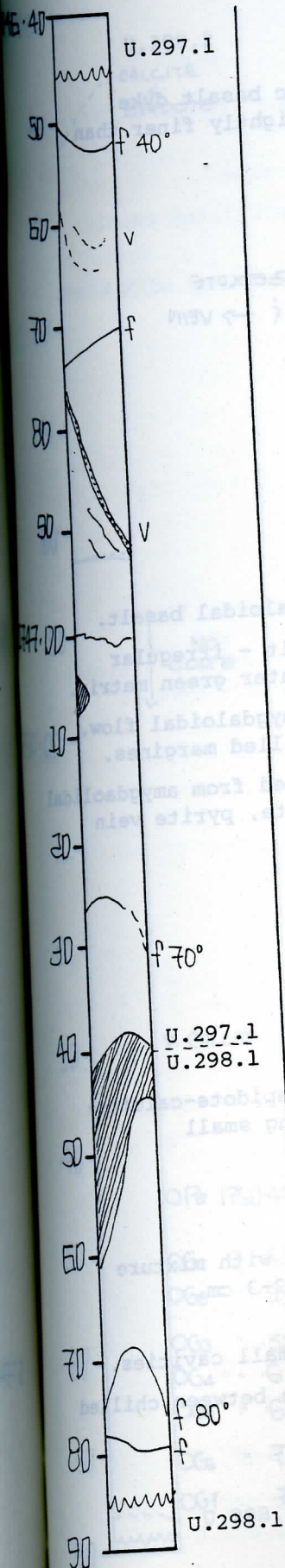
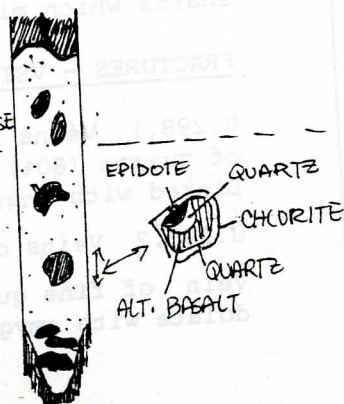
1747.45 - Massive vein system cuts across core. Some zeolite-calcite-quartz includes chlorite-epidote-calcite. Vein isolates angular pieces of basalt which develops a chloritic rim enclosing basalt altering to epidote-chlorite-pyrite.

Small veins < 5 mm zeolite - quartz - chlorite - epidote.

ROCK ALTERATION

Slight - moderate near to veins.

VIEW OF REVERSE  
OF CORE





Depth Interval 

1	7	4	7	8	5
---	---	---	---	---	---

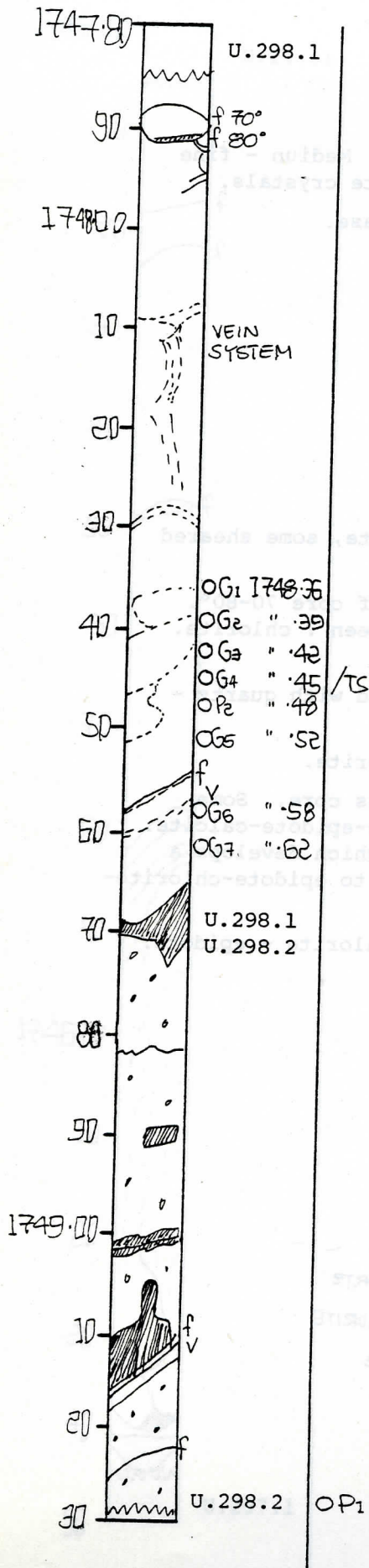
 cm to 

1	7	4	3	2	9
---	---	---	---	---	---

 cm

Box 298, Section 4

Graphic  
Representation  
Sample

LITHOLOGY-PETROGRAPHY

Continues U.298.1 Fine-grained, aphyric basalt dyke. As described earlier. Grain size is slightly finer than in Section 2.



Fine grained margin of dyke against amygdaloidal basalt.

U.298.2. Lighter green, amygdaloidal basalt - irregular and elongate chloritic amygdales in a lighter green matrix.

Small chilled intrusions of basalt into amygdaloidal flow. Dark cavities with light green altered chilled margins.

Pieces of chilled basalt intrusion separated from amygdaloidal basalt to fine ? quartz - epidote - chlorite, pyrite vein extending and 2/3 circumference.

STRUCTURE

U.298.1 Massive

U.298.2 Massive

VESICLES/AMYGDALES

U.298.2 In amygdaloidal basalt - chlorite-epidote-calcite-zeolite--Connect chlorite + epidote including small shards which might be cavities.

FRACTURES - VEINS - BRECCIA

U.298.1 Veins and cavities - angular filled with mixture of quartz (80%) + chlorite. Cavities up to 2-3 cm. Linked with angular anastomosing veins.

U.298.2 Veins of quartz-epidote-chlorite + small cavities.

Vein of fine quartz-zeolite-epidote-chlorite between chilled dolate with amygdaloidal basalt.