## REYDARFJORDUR 1978

UNIT NO	INTERVAL(m)	421.70 - 421.80	THICKNESS(m) 0.10
INTERPRETATION	Basalt dike (compl	ete)	
MACROSCOPIC DES	CRIPTION		NOT SELECTION OF HOUSE OF THE
bottom. Fracti	fine-grained, aphyr ures and veins filled lies between units 72	with laumontite, ca	
	depositional contact n of unit '71 by Lower	raemi bez witzelbean uprami bali bio yo baz	I ned out the universe, as a process of the beauty of the process of the process of the party of the desired of the contract of the party of the par
* 9			
UNIT NO72.6	INTERVAL(m)	422.05 - 425.90	THICKNESS(m) 3.85

#### MACROSCOPIC DESCRIPTION

Light gray, fine- to medium-grained, aphyric basalt. Grain size increases slightly from margins to center. Unit interpreted as dike based on chilled margins. Intruded into unit 72.5 at upper contact and intruded into unit 73.1 at base.

### REYDARFJORDUR 1978

UNIT NO	.1 <u></u>	INTERVAL(m)	425.90 -	434.70	THICKNESS (m)	8.80
INTERPRETATION	Basalt	flow (incomp)	ete)	4100 1 4 110 1	EROSE WILLIA	THE SECTION

### MACROSCOPIC DESCRIPTION

Light grayish-green, fine-grained, holocrystalline, massive, aphyric basalt with upper scoriaceous breccia and minor basal breccia. Flow banding in lower massive portion. Fractures in upper brecciated zone lined with epidote(?), zeolite, calcite, and minor garnet(?). Unit interpreted as flow based on brecciation and lower depositional contact. Upper part of flow truncated by chilled margin of unit 72.6; lower contact drawn at top of red, scoriaceous zone at top of unit 74.1

UNIT NO. 74.1	INTERVAL(m) 434.70 - 444.53	THICKNESS(m) 9.83
INTERPRETATION	Basalt flow (complete)	S REAL POLINIBAGINA

### MACROSCOPIC DESCRIPTION

Purplish-gray basalt breccia with minor greenish-gray, aphyric, massive basalt near center. Breccia clasts vary from fine-grained, aphyric to scoriaceous. Vesicles filled with zeolite, green smectite/chlorite, and minor calcite. Unit interpreted as flow based on depositional contacts; overlain by unit 73.1 and rests on altered breccia of unit 76.1; contacts drawn at changes in brecciation or alteration.

#### REYDARFJORDUR 1978

UNIT NO.	76.1	INTERVAL(m)	444.53 - 447	7.90	THICKNESS (m)	3.37	I işı,
INTERPRETAT	ION Basalt	flow (comple	ete) 150516	APPI kgff s	that pays	(38) MH	[91]

#### MACROSCOPIC DESCRIPTION

Gray, fine-grained, massive, aphyric basalt with about 1 m of highly altered reddish-gray, scoriaceous breccia at top and about 50 cm of breccia at base. Scoriaceous breccia has large amygdules lined with smectite/chlorite and filled with laumontite. Some calcite and zeolite patches also in groundmass. Unit interpreted as flow based on depositional contacts and brecciation. Unit lies between units 74.1 and 76.2 with contacts drawn at changes in degree of brecciation and alteration.

UNIT NO76.2	INTERVAL(m)	447.90 - 453.5	THICK	NESS(m) 5.63
INTERPRETATION Basa	alt flow (comple	ete)	Wolf Lines	WHINGSES THE

### MACROSCOPIC DESCRIPTION

Reddish-gray, scoriaceous flow top breccia from 447.90 to 448.70, grading downward into massive, grayish-green, fine-grained, aphyric basalt with irregular patches of smectite/chlorite. Sparse, large amygdules filled with zeolite in basal part of unit. Unit interpreted as flow from depositional contacts and brecciation. Lies between units 76.1 and 77.1 with contacts drawn at changes in degree of brecciation and discoloration. Separated from unit 77.1 by 3-cm-thick sedimentary layer.

#### REYDARFJORDUR 1978

UNIT NO. 77.1	_ INTERVAL(m)	453.53 - 457.31	_ THICKNESS(m)	3.78
INTERPRETATION	Basalt flow (comple	te) (statement se	OF FRENCH MOLTS	traction.

#### MACROSCOPIC DESCRIPTION

Chiefly grayish-green, fine-grained, massive, aphyric basalt with reddish-brown, scoriaceous breccia in upper 60 cm. Sparse vesicles and veins filled with zeolite, carbonate, and smectite/chlorite. Some sedimentary matrix in upper breccia. Unit interpreted as flow based on depositional contacts; boundary with overlying unit 76.2 marked by thin sedimentary interbed, lower boundary drawn at top of scoriaceous breccia at top of unit 78.1.

UNIT NO	INTERVAL(m) 457	.30 - 461.50	THICKNESS (m)	4.20
INTERPRETATION B	asalt flow (complete)	(w/n (stream) work)	PERSONAL PROPERTY	

#### MACROSCOPIC DESCRIPTION

Gray to greenish-gray, fine-grained, aphyric to sparsely phyric basalt with reddish-gray, scoriaceous breccia in upper 70 cm. Phenocrysts 1-3%, mostly plagioclase with some clinopyroxene. Highly amygdaloidal zone between 458.60 and 458.90, amygdules to 8 mm, filled with zeolite and calcite. Zeolite and calcite amygdules also abundant in scoriaceous breccia. Highly altered zone between 458.40 and 458.65; elsewhere only minor growth of smectite/chlorite in groundmass. Unit interpreted as flow based on depositional contacts and brecciation. Lies between flows of units 77.1 and 79.1. Contacts drawn at changes in brecciation and discoloration.

#### REYDARFJORDUR 1978

INTERPRETATION _	Basalt flow (comple	ete) ( and a most most	Treat AMERICA
MACROSCOPIC DESCR	RIPTION		
with clasts rang Unit interpreted	ging from 2 mm to 7 cm l as flow from deposit f unit 78.1 and 79.2; on.	. Much zeolite and ional contacts and boundaries drawn at	changes in brecciation
		1 3.2	
UNIT NO. 79.2	INTERVAL(m) 4	62.70 - 466.90	THICKNESS(m) 4.20
	Basalt flow (complet		

#### MACROSCOPIC DESCRIPTION

Purplish-brown, scoriaceous, flow top breccia grading downward into massive, greenish-gray, fine-grained, aphyric basalt at 464.10 m. Abundant subround to irregular vesicles (10 - 30%), filled with zeolite and smectite/chlorite. Some scoriaceous breccia also between 465.55 and 465.80 m. Pervasive alteration to green smectite/chlorite with local bands of rusty-red smectite. Unit interpreted as flow based on depositional contacts and brecciation. Lies between units 79.1 and 80.1; contacts drawn at changes in brecciation.

#### REYDARFJORDUR 1978

	salt flow (complet				
MACROSCOPIC DESCRIP	rion		. W		
Upper portion is grantsive, fine-grain plagioclase. Large some calcite. Loca Unit interpreted as 79.2 and 81.1; cont	ed, sparsely phyri vesicles filled w I breccia intercal flow based on dep	c basalt. Prith zeolite, ations with ositional co	smectite/ clasts up ntacts. L	chlorite and to 2 cm acros	S.
	*				
#3					
					,
			n <b>t</b> il		
	INTEDVAL (m)	72.50 - 479.	05	THICKNESS (m)	6.55
UNIT NO81.1	INTERVAL (III) _4	72.00		•	

Very compact, massive, greenish-gray, fine-grained, microporphyritic basalt with minor vesicles. Phenocrysts 1-2%, plagioclase and clinopyroxene. Upper 2 m highly brecciated with clasts to 5 cm; lower few cm highly vesicular. Vesicles filled with smectite/chlorite and zeolite. Unit interpreted as flow from depositional contacts. Lies between flows of units 80.1 and 82.1. Upper contact drawn at top of breccia zone; lower contact at top of sedimentary interbed.

## REYDARFJORDUR 1978

UNIT NO. 82.1	INTERVAL(m) 479.05 - 480.00	THICKNESS (m) 0.95
INTERPRETATION Clas	tic unit (complete)	INTERPRETATION CLASS
WACDOGGODZG		

### MACROSCOPIC DESCRIPTION

Dark brown to dark brownish-green, moderately bedded, partly brecciated, fine-grained, basaltic(?) tuffaceous sediment. Strongly altered and soft. Unit lies between flows of units 81.1 and 82.2.

UNIT NO. 8	32.2	INTERVAL (m)	480.00 - 489.05	THICKNESS (m)	9.05
INTERPRETATI	ION B	asalt flow (compl	ete)		THE STREET

### MACROSCOPIC DESCRIPTION

Grayish-green to grayish-brown, dense flow top breccia with clasts up to 3 cm grading downward into grayish-green, massive, aphyric, slightly vesicular basalt. Local minor flow banding dipping about 5 to 10°. Below 486.60 unit brecciated with fragments to 4 cm and large vugs filled with white secondary minerals. Unit interpreted as flow from depositional contacts. Upper contact at base of clastic unit 82.1; lower contact at top of clastic unit 83.1.

#### REYDARFJORDUR 1978

UNIT NO. 83.1	INTERVAL(m) 489.05 - 489.2	<del></del>
INTERPRETATION _	Clastic unit (complete)	THE STREET OF STREET
MACROSCOPIC DESC	RIPTION	
Dlook wome fin		
	e-grained, soft sediment containing 1.5 cm thick. Lies between flows o	
horizontal bed	e-grained, soft sediment containing 1.5 cm thick. Lies between flows o	f units 82.2 and 83.2.
horizontal bed	1.5 cm thick. Lies between flows o	f units 82.2 and 83.2.
horizontal bed	1.5 cm thick. Lies between flows o	f units 82.2 and 83.2.
horizontal bed	1.5 cm thick. Lies between flows o	f units 82.2 and 83.2.

UNIT NO. 83.2	INTERVAL(m)	489.20 - 491.50	THICKNESS (m)	2.30
INTERPRETATION	Basalt flow (compl	ete)	TATION BREALT	PROPERTY.

#### MACROSCOPIC DESCRIPTION

Dark gray, sparsely phyric, flow top breccia grading downward into fineto medium grained, aphyric, sparsely vesicular, massive basalt. Grain size increases slightly with depth. Highly altered with some disseminated pyrite. Some fractures dip 60-80°, filled with pyrite and zeolite. Unit interpreted as flow from depositional contacts. Upper contact at base of clastic unit 83.1; lower contact at top of breccia zone in unit 84.1.

#### REYDARFJORDUR 1978

UNIT NO. 84.1	INTERVAL(m)	491.50 - 503.32	THICKNESS (m)	11.82
INTERPRETATION	Basalt flow (comp	lete)	Head Mott.	ornerdana
MACROSCOPIC DES	CRIPTION		anni eta villado.	sirentermore

Reddish-brown, scoriaceous basalt breccia in upper 5.5 m, grading downward into grayish-green, fine-grained, flow banded, aphyric basalt in center of flow. 50 cm of grayish-green breccia at base. Breccia relative dense except for highly vesicular zone between 491.40 and 493.00 m. A few cognate xenoliths of plagioclase and clinopyroxene. Unit interpreted as flow from depositional contacts. Lies between units 83.2 and 86.1. Upper contact drawn at change in brecciation; lower contact at top of clastic unit.

UNIT NO. 86.1	INTERVAL(m) 503.32 - 504.00	THICKN	IESS(m) _	0.68
INTERPRETATION _	Clastic unit (complete)	Sirenal 3	wor Yang	(477714)

#### MACROSCOPIC DESCRIPTION

Fine-grained, dark reddish-brown, bedded to massive sediment grading into sandy, porous material. Vague bedding preserved, dips about 10°. At 504.00 sediment grades into breccia with scoriaceous clasts so that contact with unit 86.2 is indistinct.

#### REYDARFJORDUR 1978

UNIT NO	86.2	INTERVAL (m)	504.00 - 507.36	in Tur	THICKNESS (m) 3.36
INTERPRETA	TION	Basalt flow (com	plete)	13 11	INTERCRETATION Base

#### MACROSCOPIC DESCRIPTION

Upper 1.8 m is reddish-brown to grayish-brown, scoriaceous breccia with some sedimentary groundmass. This grades downward into grayish-green, fine-grained, aphyric amygdaloidal basalt. Amygdules have some planar orientation, filled with zeolite and quartz. Unit interpreted as flow from depositional contacts. Upper contact at top of breccia zone below unit 86.1 and lower contact at top of clastic unit 87.1.

UNIT NO.	87.1 87.3	INTERVAL(m)	507.36 - 508.80 509.65 - 511.25	THICKNESS (m)	1.44 1.60
INTERPRETA	ATION	Clastic unit (inc	omplete)		

#### MACROSCOPIC DESCRIPTION

Indurated, black and brown, interlayered silt, sand and breccia; lower part mostly breccia with subrounded to angular lithic clasts ranging from 0.5 to 4 cm in diameter. Quartz and feldspar grains visible, suggesting altered silicic tuffaceous material. Units 87.1 and 87.3 are interpreted as parts of a single clastic unit cut by a thin dike (unit 87.2). Unit lies between units 86.2 and 87.4.

### REYDARFJORDUR 1978

UNIT NO.	87.2	INTERVAL (m)	508.80 - 509.65	SE NA	THICKNESS(m) 0.85
INTERPRET	ATION	Basalt dike (com	plete)	M25.11	We that he desired

#### MACROSCOPIC DESCRIPTION

Gray, medium-grained, moderately phyric, slightly vesicular basalt. Plagioclase phenocrysts 10-15%, 1-8 mm, altered; sparse olivine microphenocrysts, altered. Plagioclase crystals aligned parallel to contacts. Unit moderately broken up by drilling. Widespread alteration to green smectite/chlorite. Unit interpreted as dike from chilled margins; intrudes clastic unit composed of 87.1 and 87.3.

UNIT NO87.4	INTERVAL(m) 511.25 - 527.50	THICKNESS(m) 16.25
INTERPRETATION Basalt	t_dike (incomplete)	MARKET MORTAL SESSION

#### MACROSCOPIC DESCRIPTION

Uniform, grayish-green, medium-grained, highly altered basalt. Moderately phyric; plagioclase phenocrysts 3%, some aligned parallel to contacts, olivine 2%, altered to smectite/chlorite, clinopyroxene 1%. Most of unit highly fractured and broken up during drilling. Many veins filled with calcite, zeolite and smectite/chlorite; strongly altered zones at 515.00, 518.20, 519.30, and 520.00 m. Upper contact with flow of unit 87.3 dips 80° but shows no obvious chilling; lower boundary truncated by intrusive of unit 90.1. Because both upper and lower contacts unchilled unit could be either a dike or flow. Non-vesicularity and abundant fractures make dike origin more likely; probably part of larger multiple dike.

INTERVAL(m) 527.50 - 528.50

THICKNESS(m) 1.0

THICKNESS (m) 0.58

#### REYDARFJORDUR 1978

INTERPRETATION Basalt dike (incomplete)

UNIT NO. 90.2 INTERVAL(m) 528.50 - 529.08

Fine-grained, relatively ma phenocrysts 2-3% in upper p 8 mm wide vein at 527.90 m chilled against unit 87.4; Probably part of larger mul	art, 7-8% in low filled with smed lower boundary t	er part, 1-2 mm, tite/chlorite.	fresh. Upper contact
Probably part of larger mul	tiple tike.	1 of 87.1 phy. 82.	
		9	
	g - 3	8	

#### MACROSCOPIC DESCRIPTION

INTERPRETATION Basalt dike (complete)

UNIT NO. 90 1

Very fine-grained, aphyric, massive basalt. Chilled contacts against units 90.3 and 90.1. Probably part of thick multiple dike.

Quality on property began to a period party of the late to the late of

19.50. and 5.0.40 m. Hoper command with flow of most of the de-

UNIT NO. 90.3 INTERVAL(m) 529.08 - 529.45 THICKNESS(m) 0.37

#### REYDARFJORDUR 1978

INTERPRETATION Basalt dike(?) (incomplete)	YATHRURYNY
MACROSCOPIC DESCRIPTION	DI SOCIEDIDA
Grayish-green, medium-grained, massive, moderately phyric basalt. Pl phenocrysts, 10%, clinopyroxene 5%, opaques 3%. Unit lies between un and 90.4 and is truncated by dikes at both margins. Interpreted as d because of absence of vesicles and similarity to overlying parts of m dike.	its 90.2 like
UNIT NO. 90.4 INTERVAL(m) 529.45 - 532.55 THICKNESS(	m) <u>3.10</u>
INTERPRETATION Basalt dike (complete)	Tag Filteration
MACROSCOPIC DESCRIPTION	Sansapinna
Gray, fine- to medium-grained, aphyric, massive basalt. Chilled marg at both contacts against unit 90.3 and 91.1. Moderately broken up by	

and low angle fractures.

#### REYDARFJORDUR 1978

UNIT NO. 91.1	INTERVAL(m) 532.55 - 533.58 THICKNESS(m) 1.
INTERPRETATION _	Basalt flow(?) (incomplete)
MACROSCOPIC DESC	IPTION RESERVED TO THE PROPERTY OF THE PROPERT
basalt. Fractu	sicular, highly altered and broken, fine-grained, olivine s abundant, lined with smectite/chlorite; veins filled with t by dike of unit 90.4 above and 91.2 below. Interpreted
as flow from ve fracturing.	cularity but possibly a dike because of high degree of

UNIT NO. 91.2	INTERVAL (m)	533.58 - 541.40	THICKNESS (m) 7.82	2.280
INTERPRETATION	Basalt dike(?) (inc	complete)		

#### MACROSCOPIC DESCRIPTION

Gray, medium-grained, aphyric, massive basalt. Upper and lower 1 m broken up along subvertical fractures. Rare small smectite/chlorite blebs. Unit interpreted as dike from medium grain size, lack of vesicles, and absence of scoriaceous breccia. Upper contact against unit 91.1 is fine-grained but not chilled; lower contact against unit 92.1 also fine-grained but not chilled.

#### REYDARFJORDUR 1978

MACROSCOPIC DE	SCRIPTION			uni in ta	nedit for alternation
	The Table State of the State of			and the	Citation of History Colors
smectite/chlo dipping about	rite alteration 75°. Upper bontact chilled	on. Many fi oundary tru	ractures in in incated by int	phyric basalt. nterval 546.95 trusive contact bably part of	to 547.05 t of unit
	4				
				* *	
•	4				
		1.00			
	ω <sup>8</sup>				

#### MACROSCOPIC DESCRIPTION

Greenish-gray, medium- to fine-grained, sparsely phyric basalt with a few amygdules filled with smectite/chlorite. Phenocrysts 1-2%, plagioclase. Some large smectite/chlorite fractures with minor zeolite. Unit truncated top and bottom by intrusive contacts of units 92.1 and 94.2. Interpreted as dike from general absence of vesicles and massive character. Probably part of multiple dike.

#### REYDARFJORDUR 1978

UNIT NO. 94.2 INT	ERVAL(m) 548.70 - 585.80	THICKNESS(m) 37.10
INTERPRETATION Basalt di	ike (complete?)	HTEPPRETATION FRANC dike (
MACROSCOPIC DESCRIPTION		
Greenish-gray, very homoge aphyric basalt with rare be subhorizontal to low angle against clastic unit 100.1	olebs of smectite/chlorite e fractures. Lower contac	c. Scattered t chilled subhorizontally

UNIT	NO.	100.1	INTERVAL(m)	585.82 - 589.82	THICKNESS (m)	4.00

MACROSCOPIC DESCRIPTION

Fine-grained, dark brown to black, bedded siltstone and mudstone underlain by conglomerate of basaltic clasts 1-2 cm across. Grain size increases downward and sorting is generally poor. Intrusive contacts at top and base. Lies between units 94.2 and 101.1.

N.B. In core photograph of this interval boxes 101 through 104 have wrong depth labels taped on end.

INTERPRETATION Clastic unit (incomplete)

## REYDARFJORDUR 1978

UNIT NO	101.1	INTERVAL(m) 589.82 - 602.96	THICKNESS (m)	13 14
INTERPRETA	TION Bas	alt dike (complete)		13.14
MACROSCOPI	C DESCRIPTI	ON	-	

Grayish-green, medium-grained, porphyritic basalt. Plagioclase phenocrysts 5 - 10%, 1-2 cm long, oriented parallel to core axis. Phenocryst percent highly variable through unit. Upper part of unit veined and broken up by subhorizontal to subvertical fractures; lower part more massive. Intrusive contacts top and bottom with units 100.1 and 103.1.

UNIT NO103.1	INTERVAL(m) 602.96 - 603.23	THICKNESS (m)	0.27
INTERPRETATION _			_0.27

## MACROSCOPIC DESCRIPTION

Greenish-gray, poorly defined, basalt breccia. Clast size increases somewhat downward. Unit truncated by intrusive contacts top and bottom; lies between units 101.1 and 103.2. May be continuation of clastic unit 100.1.

#### REYDARFJORDUR 1978

UNIT NO. 103.2 INTERVAL	m) 603.23 - 628.80	THICKNESS (m) 25.6
INTERPRETATION Basalt dike (c	complete)	ALERSAGIATION GRANT COL
MACROSCOPIC DESCRIPTION		
Light grayish-green, holocrystal aphyric basalt. Grain size increase plagioclase phenocrysts in Lithologically similar to unit spaced 20-100 cm apart. Unit had and 108.1 below. Lower contact carbonate(?).	reases from contacts to upper several meters, 94.2. Subhorizontal to as chilled contacts aga	ward center of unit. absent elsewhere. low angle fractures inst units 103.1 above

N.B. Unit labelled 103.1 in core boxes 105 and 106. In core photographs the outer box labelled 107 should be relabelled 106, the box labelled 106 should be relabelled 108 and the meters of box 108 belong to box 106.

UNIT NO. 108.1	INTERVAL (m)	628.80 - 632.67	THICKNESS (m)	3.87	
INTERPRETATION	Basalt flow (incomple	ete)			

### MACROSCOPIC DESCRIPTION

Medium- to dark-gray, porphyritic basalt; phenocrysts about 20%, mostly plagioclase to 3 mm long, minor clinopyroxene and olivine. Highly vesicular, vesicles filled with carbonate or zeolite. Bottom 10 cm scoriaceous. Unit lies between units 103.2 and 108.2; truncated by intrusive contacts top and bottom; interpreted as flow because of high vesicularity.

#### REYDARFJORDUR 1978

UNIT NO. 108.2 INTERVAL(m) 632.67 - 633.24	THICKNESS(m) 0.57
INTERPRETATION Basalt dike (incomplete)	b *fresh (M) TRESPANCE
MACROSCOPIC DESCRIPTION	ADETTEROPHE OFFICEREDAY
Gray, fine-grained, very sparsely phyric, microvesicular phenocrysts are plagioclase. Some high angle fractures chilled against unit 108.1; lower boundary truncated by unit 108.3. Unit is probably part of large composite dunits 108.2 through 110.2.	. Upper contact intrusive of
UNIT NO. 108.3 INTERVAL(m) 633.24 - 636.10	THICKNESS(m) 2.86
INTERPRETATION Basalt dike (incomplete)	A PLEASE NOTTATOR DARREST N
MACROSCOPIC DESCRIPTION	WOTTHIRDENG DISCONDING

Light gray, fine-grained, aphyric basalt. Grain size increases somewhat from contacts toward center of unit. Basalt extremely fractured and broken up. Upper contact is intrusive into unit 108.2; lower contact with unit 109.1 is indistinct; lower contact strongly sheared and mineralized. Unit is probably part of large composite dike including units 108.2 through 110.2.

#### REYDARFJORDUR 1978

UNIT NO.	109.1	INTERVAL (m)	636.10 - 636.60	THICKNES	SS(m) 0.50
INTERPRETAT	ION Basa	lt dike (compl	ete?)	Alb street.	Kink had talk of a re-

#### MACROSCOPIC DESCRIPTION

Medium-gray, fine- to medium-grained, aphyric basalt. Basalt is highly fractured. Lies between units 108.3 and 109.2; both contacts poorly defined. Unit probably part of large composite dike including units 108.2 through 110.2.

UNIT NO.	109.2	INTERVAL (m)	636.60 - 638.98	THICKNESS (m)	2.38	1
INTERPRETA	ATION	Basalt dike (incom	plete)		7819 <b>9</b>	

#### MACROSCOPIC DESCRIPTION

Medium gray, fine- to medium-grained, aphyric basalt. Highly fractured and broken up. Contact at top with unit 109.1 probably intrusive; lower contact truncated by upper chilled zone of unit 110.1. Unit probably part of large composite dike including units 108.2 through 110.2.

UNIT NO. 110.1 INTERVAL(m) 638.98 - 642.56 THICKNESS(m) 3.58

#### REYDARFJORDUR 1978

Basalt dike (incomplete)

INTERPRETATION

MACROSCOPIC DESCRI	PTION	2017 CT & 325 (# 31 SQ 22 SH 200
broken up. Upper unit 110.2 indisti units 108.2 through	contact intrusive into nct. Unit probably par h 110.2.	ric basalt. Highly fractured and unit 109.2; lower contact with t of large composite dike including
		suchs dill regard to trang videdore state.
-		
UNIT NO110.2	INTERVAL(m) 642.	56 - 650.38 THICKNESS(m) 7.82
INTERPRETATION	Basalt dike (incomplete	pleanage and these PRITATEPINION
MACROSCOPIC DESCRI	OTTON	PATTAL STATES DISPOSICATION

Medium to dark gray, fine- to medium-grained, massive, aphyric basalt.

Many high angle fractures, mostly closed. Upper contact with unit 110.1 indistinct; lower contact intrusive into unit 111.1. Unit probably part of

ev unit libit. Seper they'et a series of thin, highly scoristsons floor

large composite dike including units 108.2 through 110.2.

#### REYDARFJORDUR 1978

UNIT NO. 111.1	INTERVAL(m) 6	50.38 - 652.70	THICKNESS(m)	2.32
INTERPRETATION	Basalt dike(?) (incom	mplete?)	Sinana - ROITATE	MARKE
MACROSCOPIC DESC	RIPTION		FIG DESCRIPTION	
plagioclase and Rare hairline f zeolite, calcit 112.1; upper co	um grained, sparsely plants of larger dike sequential and smectite and smectite by unitart of larger dike sequential art of la	, olivine altered t smectite/chlorite; e. Lower contact c t 110.2. Both cont	o smectite/chlori some veins of hilled against un	ite.
onic probably p	are or ranger arke sou			

UNIT NO112.1	INTERVAL(m) 652.70 - 656.70	THICKNESS (m) 4.0
INTERPRETATION	Basalt flow (incomplete)	In the Beauty of

### MACROSCOPIC DESCRIPTION

Purplish-gray, flow top scoriaceous breccia to 654.17 m, grading downward into highly amygdaloidal, aphyric basalt with a brecciated zone between 654.70 and 654.90 m. Irregular cavities in upper part of flow mostly filled with laumontite and some smectite/chlorite. Hairline fractures filled with green smectite/chlorite and zeolite. Lower part of unit massive and microvesicular. Depositional lower contact on unit 112.1; upper contact truncated by unit 111.1. Upper flow of a series of thin, highly scoriaceous flows from 652.70 to 684.80 m.

## REYDARFJORDUR 1978

UNIT NO112.2	INTERVAL(m) 656.70 - 657.70	THICKNESS(m) 1.00
INTERPRETATION Basa	It flow (complete?)	
MACPOSCODIC DECORADOR	, — — — — — — — — — — — — — — — — — — —	Mary and the state of the state

## MACROSCOPIC DESCRIPTION

Purplish-brown, highly altered, scoriaceous flow top breccia with 21 cm of grayish-green massive basalt at base. Basalt is fine-grained, porphyritic with plagioclase phenocrysts. Groundmass altered to smectite/chlorite. Vesicles and voids between fragments filled with zeolite. Part of sequence of thin scoriaceous flows from 652.70 to 684.8 m. Lies between units 112.1 and 113.1; contacts drawn at tops of breccia zones.

UNIT NO113.1	INTERVAL(m) 657.70 - 659.	07 THICKNESS(m) 1.37
INTERPRETATION Ba	salt flow (complete?)	
Wanasa		·····································

## MACROSCOPIC DESCRIPTION

Dark, grayish-green, pervasively altered, scoriaceous, flow top breccia in upper 60 cm, grading downward into light gray, altered, vesicular basalt. Scattered patches of brown and green smectite/chlorite. Unit lies between units 112.2 and 113.2; contacts drawn at tops of breccia zones. Unit part of sequence of thin, scoriaceous flows from 652.70 to the second of the good one of the constitution and

## REYDARFJORDUR 1978

UNIT NO113.2	INTERVAL(m) 659.07 - 664.41	THICKNESS(m) 4.34
INTERPRETATION	Basalt flow (complete)	INI SEPRETATION BESALC CO
MACROSCOPIC DESCR	IPTION	

Flow divided into uppermost section of highly altered reddish-brown, scoriaceous flow top breccia to 661.40 m; below is dark gray, vesicular flow banded, moderately phyric basalt. Phenocrysts are plagioclase 7%, clinopyroxene 2%, altered olivine 1%, opaques 1%. Fractures common, spaced 20-50 cm apart, lined with smectite/chlorite and some zeolite. Vesicles filled with laumontite, quartz, and calcite. Unit part of scoriaceous flow sequence between 652.70 to 684.80 m. Lies between units 113.1 and 114.1; contacts drawn at tops of breccia zones.

UNIT NO.	114.1	INTERVAL(m) <u>664.41 - 667.48</u>	THICKNESS(m) 3.07
INTERPRETA	ATION _	Basalt flow (complete)	A MARKE MALTATEMENT

### MACROSCOPIC DESCRIPTION

Uppermost reddish-gray to reddish-brown, scoriaceous, flow top breccia grading downward between 665.70 and 666.30 m into light greenish-gray, porphyritic massive basalt with some internal brecciated zones. Phenocrysts 10-15%, most plagioclase with minor clinopyroxene and traces of olivine and opaques. Veinlets filled with green smectite/chlorite and white massive mineral. Unit relatively well defined; part of sequence of thin scoriaceous flows from 652.70 to 684.80 m. Lies between units 113.2 and 114.2; contacts drawn at tops of breccia zones.

#### REYDARFJORDUR 1978

UNIT NO. 114.2	INTERVAL(m)	667.48 - 671.73	THICKNESS (m)	4.25
INTERPRETATION	Basalt flow (compl	ete)		

#### MACROSCOPIC DESCRIPTION

Reddish-gray, scoriaceous, flow top breccia in upper 80 cm, underlain by light gray, fine-grained basalt with sparse plagioclase microphenocrysts. Brecciated zones between 669.10 and 669.26, 669.78 and 670.38, and 670.85 and 671.00. Irregular, hairline fractures throughout, filled with zeolite and green smectite/chlorite. Unit highly scoriaceous and inhomogeneous, possibly consisting of several flow units. Part of a series of thin, scoriaceous flows between 652.70 and 684.80 m. Unit lies between units 114.1 and 115.1; contacts drawn at tops of breccia zones.

UNIT NO115.1	INTERVAL(m) _	671.73 - 682.97	THICKNESS (m)	11.24
INTERPRETATION _	Basalt flow (comple	ete)	Jensil - Macani	

#### MACROSCOPIC DESCRIPTION

Reddish-gray, highly scoriaceous, flow top breccia to 681.20 m. This underlain by greenish-gray, sparsely phyric, fine-grained, massive basalt. Phenocrysts 2-3%, plagioclase, olivine, clinopyroxene. Breccia pervasively altered with zeolite, smectite/chlorite and some pyrite. Part of series of scoriaceous flows from 652.70 to 684.80 m. Unit lies between units 114.2 and 117.1; contacts drawn at tops of breccia zones.

#### REYDARFJORDUR 1978

UNIT NO. 114.2	INTERVAL(m)	667.48 - 671.73	THICKNESS (m)	4.25
INTERPRETATION	Basalt flow (compl	lete)	niče, prima piša, pri stave	

#### MACROSCOPIC DESCRIPTION

Reddish-gray, scoriaceous, flow top breccia in upper 80 cm, underlain by light gray, fine-grained basalt with sparse plagioclase microphenocrysts. Brecciated zones between 669.10 and 669.26, 669.78 and 670.38, and 670.85 and 671.00. Irregular, hairline fractures throughout, filled with zeolite and green smectite/chlorite. Unit highly scoriaceous and inhomogeneous, possibly consisting of several flow units. Part of a series of thin, scoriaceous flows between 652.70 and 684.80 m. Unit lies between units 114.1 and 115.1; contacts drawn at tops of breccia zones.

UNIT NO115.1	INTERVAL(m) _	671.73 - 682.97	THICKNESS (m)	11.24
INTERPRETATION	Basalt flow (comple	te)	ALEKSAN MARKAN	

#### MACROSCOPIC DESCRIPTION

Reddish-gray, highly scoriaceous, flow top breccia to 681.20 m. This underlain by greenish-gray, sparsely phyric, fine-grained, massive basalt.

Phenocrysts 2-3%, plagioclase, olivine, clinopyroxene. Breccia pervasively altered with zeolite, smectite/chlorite and some pyrite. Part of series of scoriaceous flows from 652.70 to 684.80 m. Unit lies between units 114.2 and 117.1; contacts drawn at tops of breccia zones.

### REYDARFJORDUR 1978

UNIT NO. 117.3 INTERVAL(m) 682.97 - 684.56 THICKNESS(m) 0.25

INTERPRETATION Basalt flow (complete) cut by dike of unit 117.2

#### MACROSCOPIC DESCRIPTION

Reddish-gray, scoriaceous flow top breccia to 683.95, grading downward into plagioclase-phyric, highly vesicular basalt. Unit 117.3 is greenish-gray, plagioclase-phyric, amygdaloidal basalt. In brecciated part spaces between clasts filled with green smectite/chlorite, quartz, and calcite. Rare hairline fractures filled with smectite/chlorite, quartz, and calcite. Units 117.1 and 117.3 are interpreted as parts of single flow cut by thin dike of unit 117.2. Flow lies between units 114.2 and 117.4; contacts drawn at top of breccia zones. Unit is part of series of thin, scoriaceous flows from 652.70 to 684.80 m.

UNIT NO. 117.4 INTERVAL(m) 684.56 - 685.25 THICKNESS(m) 8.62

INTERPRETATION Basalt dike (complete) separated by segment of flow in unit 117.

#### MACROSCOPIC DESCRIPTION

Gray, fine-grained, aphyric, massive basalt with rare hairline fractures and veinlets filled with calcite. Some patches of smectite/chlorite alteration. Chilled top and bottom contacts on both units 117.2 and 117.4. The two units have steep contacts and are interpreted as parts of the same dike. Intrudes units 117.1 above and 119.1 below, and separated by unit 117.3.

## REYDARFJORDUR 1978

MACROSCOPIC DESCRIF	PTION		. MSETTEROREU DE GODRALO
Possibly same unit	as 117.1 and 117.3	op and bottom by	cia. Lies between intrusive contacts.
	THE STAND HOME SO ES	ori find am 00)-	De groch bounds angularia
		MALE PROPERTY AND ASSESSMENT	
		9 (8	
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		173. 88	
		30	
	10 and 10		
UNIT NO. 119.2	INTERVAL(m) _69	4.50 - 726.88	THICKNESS(m) 32.38

Greenish-gray, medium- to coarse-grained, very sparsely phyric, massive, fairly homogeneous basalt. Phenocrysts 1-2%, plagioclase. Veins scattered throughout, filled with smectite/chlorite and mixtures of laumontite, quartz, calcite and minor pyrite. Pyrite and smectite disseminated throughout. Yellow garnet(?) observed in vein at 725.30 m. Top contact chilled against

unit 119.1; basal contact truncated by top of unit 124.1.

#### REYDARFJORDUR 1978

UNIT NO. 124.1 INTERVAL(m) 726.88 - 73	33.50 THICKNESS(m) 6.62
INTERPRETATION Basalt dike (complete)	and Leville (manife Marya Parya Marya
MACROSCOPIC DESCRIPTION	иотти адала зтярваряся
Grayish-green, medium-grained, slightly phyric betward chilled margins at top and bottom. Pheno 3-4 mm long, oriented subparallel to core axis; Fractures spaced about 20-100 cm. Unit lies betwery similar to overlying dike of unit 119.2.	ocrysts 1-2%, mostly plagioclase, minor mafic phenocrysts.

UNIT NO. 126.1	INTERVAL(m)733.70 - 743.08	THICKNESS (m) 9.38
INTERPRETATION	Basalt flow (incomplete)	

#### MACROSCOPIC DESCRIPTION

Light gray to bluish-gray, scoriaceous flow top breccia grading downward at 736.90 into more massive, grayish-green, slightly plagioclase phyric basalt. Phenocrysts 2-3%, 1-2 mm. Irregular flow banding in central part of flow. Basal flow breccia below 742.40 m; some disseminated pyrite below 738.50 m. Lower contact shows minor chilling against clastic unit 127.1; upper contact truncated by dike of unit 124.1.

UNIT NO. 127.1 INTERVAL(m) 743.09 - 743.45 THICKNESS(m) 0.36

#### REYDARFJORDUR 1978

MACROSCOPIC DESCRIPTION	horry répain preparet
of green siltstone at base with	ded clasts up to 5 cm in diameter. Thin layer excellent irregular depositional contact of unit 127.2. Overlain by unit 126.1.
UNIT NO. 127.2 INTERVAL (1	(m) 743.45 - 750.73 THICKNESS(m) 7.28

#### MACROSCOPIC DESCRIPTION

Reddish-gray, scoriaceous flow top breccia with reddish, vesicular clasts from 2 to 5 cm across grading downward into light gray, fine- to medium-grained aphyric basalt. Breccia highly altered and crumbly. Vugs at 749.95 and 750.15 m rimmed with smectite/chlorite and filled with zeolite and chalcedony. Some disseminated pyrite. Lies between clastic units 127.1 and 129.1; lower contact sharp.

## REYDARFJORDUR 1978

UNIT NO. 129.1	INTERVAL(m)750.73 - 750	.90 THICKNESS(m) 0.23
INTERPRETATIONC1	astic unit (complete)	NTERPRETATION CINETIC unit (
MACROSCOPIC DESCRIPT	ION	

Bluish-gray to reddish-brown, bedded, medium- to coarse-grained, tuffaceous sediment with plagioclase crystals abundant in upper 10 cm. Lies between units 127.2 and 129.2

UNIT NO.	129.2	INTERVAL(m)	750.90 - 765.05	THICKNESS (m)	14.15
INTEDDDET	ATTON Ras	alt flow (compl	lete) (orelower, well		

#### MACROSCOPIC DESCRIPTION

Gray to reddish-gray, heterogeneous, scoriaceous, flow top breccia grading into gray, moderately brecciated basalt. Rock sparsely phyric, 1-2% phenocrysts, plagioclase. Zeolite and carbonate fill abundant vesicles and fractures, also present in breccia matrix. Unit lies between clastic unit 129.1 and basalt flow of unit 131.1; heterogeneous cooling unit, probably consisting of several flow units. Lower contact drawn at top of breccia zone.

INTERPRETATION Basalt flow (complete)

INTERVAL(m) 765.05 - 769.20 THICKNESS(m) 4.15

### REYDARFJORDUR 1978

UNIT NO. \_\_131.1

MACROSCOPIC DESCRIPTION	MOTALING DISOSCHOM
Interlayered plagioclase-phyric, scoriaceous breccia, thin massive layers to 766.33. Below this level mostl grayish-green, mottled, sparsely phyric, flow banded b are plagioclase, 1 mm long. Flow banding dips about 3 at base of flow, below 768.40. Sharp depositional bas clastic unit 132.1; upper contact with unit 129.2 draw zone.	y purplish-gray to easalt. Phenocrysts 0°. Thick breccia al contact with n at top of breccia
bux manners should be labelled to reverse order-	Montactack case of the
UNIT NO132.1 INTERVAL(m)769.20 - 769.80	THICKNESS(m) 0.60
INTERPRETATIONClastic unit (complete)	TITLE CLEEN CLEEN
MACROSCOPIC DESCRIPTION	MOTTETICAL STRUCTURE

Green to dark brown, fine- to coarse-grained, bedded tuff. Dark soil(?) zone below 769.52. Top contact sharp, basal contact irregular. Unit lies between units 131.1 and 132.2.

UNIT NO. 132.2 INTERVAL(m) 769.80 - 779.56 THICKNESS(m) 9.76

## REYDARFJORDUR 1978

INTERPRETATION _	Basalt flow (complete		
MACROSCOPIC DESCI	RIPTION		
into more homoged greenish-gray, it clase phenocrysto breccia occurs to hairline fracture top contact subta 133.1.	coriaceous breccia with eneous brecciated lava fine-grained, non-vesions, 1% clinopyroxene phoelow 778.90 with very res filled with smectitations or contal, depositions	below 773.20. Below cular, massive basal menocrysts, both 1-2 vesicular fragments te/chlorite and zeolal against clastic u	t with 1-2% plagio- mm. Flow bottom . Vesicles and ite. Basal and nits 132.1 and
N.B. In core pl	notographs box numbers	should be labelled	in reverse order.
		14	
			1 to 1
	2		
UNIT NO. 133.1	INTERVAL(m)	779.56 - 779.80	THICKNESS(m) 0.24
INTERPRETATION	Clastic unit (compl	ete)	TARLY NOTATION
MACROSCOPIC DESC	RIPTION		
Light brown be	dded to graded, medium	-grained sandstone h	becoming coarser-
inad toward	bottom of unit. Grade bottom contacts with u	s into scoriaceous	top of underlying
flow. lop and	DUCTOM CONTACTS WITH A	100,10 100,1	

dip about 10°.

## REYDARFJORDUR 1978

UNIT NO133.2
INTERPRETATION Basalt flow (complete)
MACROSCOPIC DESCRIPTION
Light gray to black, scoriaceous, flow top breccia with fragments of porphyritic basalt grading into more massive basalt at 782.30. Phenocrysts 3-5%, plagioclase, clinopyroxene, opaque. Unit has flow base breccia starting at 783.78 m Rock highly altered; vesicles and hairline fractures filled with zeolite. Lies between clastic units 133.1 and 134.1; upper contact dips about 10°, lower contact subhorizontal.
UNIT NO134_1 INTERVAL(m)784_28 = _784_80 THICKNESS(m)0.52
INTERPRETATION Clastic unit (complete)
MACROSCOPIC DESCRIPTION

Brown, bedded, crystal-vitric-lithic tuff and lapillistone with visible plagioclase(?) laths, pumice lapilli and basalt fragments. Subhorizontal top and bottom depositional contacts with units 133.2 and 134.2.

## REYDARFJORDUR 1978

	REIDARFJORDOR 1375	
UNIT NO. 134.2	INTERVAL(m) 784.80 - 786.30 asalt flow (complete)	THICKNESS(m) 1.50
INTERPRETATIONB	asait from (comp	MACROSCUPTO DESCRIPTION
and zeolite. Muds	TION grained, slightly plagioclase-phyric bases about 30%, round, 1-5 mm, filled with stone(?) lens at 785.35. Subhorizontal cic units 134.1 and 135.1.	depositional control of the control

		TATTERVAL(m)	786.30 - 786.60	THICKNESS (m)	0.30
UNIT NO.	135.1	INILKAND(m)	1001	70TH	

INTERPRETATION Clastic unit (complete)

## MACROSCOPIC DESCRIPTION

Dark brown, fine-grained, bedded sediment with green crystal-rich layer in center and reddish-brown layer at base. Top baked. Unit has sharp upper contact with unit 134.2 and irregular basal contact with unit 135.2; both contacts depositional, subhorizontal.

## REYDARFJORDUR 1978

UNIT NO. 135.	2 INTERVAL(m)	786.60 - 797.10	THICKNESS (m)	10.50
INTERPRETATION	Basalt flow (comple	te)	- 1 Test +4	

#### MACROSCOPIC DESCRIPTION

Reddish-gray, scoriaceous, flow top breccia to 791.50 m, followed by brecciated basalt to about 794.00 m. Lower 1-2 m is massive, greenish-gray, nonvesicular, aphyric, medium-grained basalt with flow banding inclined at 15-20°. Some incipient brecciation? Unit lies between clastic unit 135.1 and flow of unit 136.1; lower contact drawn at top of breccia zone.

UNIT NO136.1	INTERVAL(m)	797.10 - 805.70	<u>Same</u> j	THICKNESS (m)	8.60	- Ni
INTERPRETATION	Basalt flow (compl	ete)		19.55 %		

#### MACROSCOPIC DESCRIPTION

Red, scoriaceous, flow top breccia with clasts of slightly plagioclase-phyric basalt grading downward at 800.70 m into fine- to medium-grained, light gray, aphyric basalt. Top part highly altered, soft, crumbly to about 798.0 m. Basal breccia 20 to 50 cm thick. Large zeolite filled vugs at 801.90 and 802.5 m. Top and bottom contacts subhorizontal, depositional, indistinct; lies between units 135.2 and 138.1; contacts drawn at tops of breccia zones.

## REYDARFJORDUR 1978

UNIT NO. 138	.1 INTERVAL(m)	805.70 - 822.30		SS(m) 16.60
INTERPRETATION	Basalt flow (compl	lete)	anii leksa	STERBREITION
MACROSCOPIC DI	ESCRIPTION			10 01 4002080A
phyric basalt rather homoge Unit lies bet	gray, scoriaceous, flow grading downward at 80 eneous basalt. Compact ween flows of units 130 us breccia zones.	t breccia at base.	below 821.90	) m.

UNIT NO141.1	INTERVAL(m)	822.30 - 823.78	THICKNESS(m) 1.48
INTERPRETATION _	Basalt flow (compl	ete)	INTERNATION NOT A TRANSPORT

#### MACROSCOPIC DESCRIPTION

Light gray, scoriaceous, flow top breccia with fragments to 5 cm grading into massive basalt at 823.60 m. Top and basal contacts indistinct, subhorizontal, depositional. Unit lies between units 138.1 and 141.1.

#### REYDARFJORDUR 1978

UNIT NO1	41.2	INTERVAL (	m) <u>823.78</u> -	828.50		THICKNESS (m)	4.72
INTERPRETAT	ION Basal	t flow (co	mplete)		900		

#### MACROSCOPIC DESCRIPTION

Greenish-gray, scoriaceous breccia to about 825.55 m grading downward into massive basalt at 827.60 m. Basal breccia in lower 10 cm of flow. Possibly part of larger cooling unit including overlying flow of unit 141.1 but rock is more amygdaloidal. Sharp depositional basal contact with underlying clastic unit 142.1.

UNIT NO. 142.1 INTERVAL(m) 828.50 - 828.73 THICKNESS(m) 0.23

INTERPRETATION Clastic unit (complete)

#### MACROSCOPIC DESCRIPTION

Black, fine-grained, soft mudstone to coarse-grained, poorly sorted sediment at base. Sharp top and irregular basal depositional contacts. Lies between units 141.2 and 142.2.

## REYDARFJORDUR 1978

UNIT NO. 142.2	INTERVAL(m) 828.73 - 836.79	THICKNESS (m)	8.06
INTERPRETATION	Basalt flow (complete)		
INI DIN IND THE		MOTITATIONS OF	
MACROSCOPIC DESC	RIPTION		
Dark gray to red downward by ves medium-grained,	ddish-brown, scoriaceous flow top brecci cular basalt to about 832.60 m. Below massive basalt with very rare plagiocla Vesicles filled with zeolite. Basal contacts depositional with units 142.1 a	se microphenocrys	ts .40 m.

UNIT NO.	143.1	INTERVAL(m)	836.79 - 840.20	THICKNESS (m)	3.41
INTERPRET	ATION _	Basalt flow (comple	ete)	control and other	0 120

## MACROSCOPIC DESCRIPTION

Grayish-red, scoriaceous breccia with clasts to 4 cm, grading downward into massive, vesicular, gray, aphyric basalt at 837.50 m. Vesicles become irregular and larger downwards. Lies between units 142.2 and 144.1; top and bottom contacts depositional, indistinct. Zeolite-filled vugs in interval between 837.80 and 838.80 m.

UNIT NO. 144.1 INTERVAL(m) 840.20 - 842.81 THICKNESS(m) 2.61

#### REYDARFJORDUR 1978

CROSCOPIC DESCRIP	TION	MATTERSEN DEVOTEDAME
ownward into mass: preccia. Flow band mits 143.1 and 144	own, scoriaceous breccia with ive basalt at about 841.40 m; ding in massive section dips a 4.2; top and bottom contacts of	about 30 cm of basal about 30°. Lies between depositional, indistinct.
		2
INTE NO		
	INTERVAL(m) 842.81 - 848	
INTERPRETATION Bas	salt flow (complete)	on) wath sleast 1601TATHYGHTEL

massive, fine- to medium-grained, aphyric basalt at about 844.20 m. Lies between units 144.1 and 145.1; top and bottom contacts depositional,

indistinct.

## REYDARFJORDUR 1978

UNIT NO. 145.1 INTERVAL(m) 848.90 - 856.68	THICKNESS(m)	7.78
INTERPRETATION Basalt flow (complete)	11825 101.18	ESTERNIST
MACROSCOPIC DESCRIPTION		MCROSCOP.
Scoriaceous breccia with clasts to 5 cm, grading downward grayish-green, medium grained, aphyric basalt at about 85 10 cm breccia at base. Amygdaloidal zone between 851.00 Unit lies between units 144.2 and 147.1; top and bottom chorizontal, depositional, indistinct; 2-cm-thick sediment at base.	and 853.25.	barning barnwid telepand Na artek esiby

UNIT NO147.1	INTERVAL(m) <u>856.68 - 860.56</u>	THICKNESS (m) 3.92
INTERPRETATION _	Basalt flow (complete)	OLD TIMES DOTAINS NO.

## MACROSCOPIC DESCRIPTION

Grayish-green, fine-grained, massive, streaky, aphyric basalt with 40 cm of reddish-brown, scoriaceous flow top breccia. Contacts depositional, subhorizontal. 2 cm of fine-grained sediment separates unit from overlying flow of unit 145.1; lower contact rests on unit 147.2.

#### REYDARFJORDUR 1978

MACROSCOPIC DESCRIPTION  Greenish-gray, fine- to medium-grained, aphyric, genewith 20-30 cm of brownish-gray, flow top breccia. Brinterval occurs between 867.15 and 867.80 m; dark bread cm. Contacts depositional, vague with overlying with underlying clastic unit 148.1.	recciated, reddish-purple ecciated zone in lower unit 147.1 and sharp
with 20-30 cm of brownish-gray, flow top breccia. Brinterval occurs between 867.15 and 867.80 m; dark bre 10 cm. Contacts depositional, vague with overlying with underlying clastic unit 148.1.	recciated, reddish-purple ecciated zone in lower unit 147.1 and sharp
Market and the second of the s	mang SucktAngus Authorous
	\$
UNIT NO. 148.1 INTERVAL(m) 867.28 - 867.50	THICKNESS(m) 0.22
INTERPRETATION Clastic unit (complete)	Note and Representation
MACROSCOPIC DESCRIPTION	

Fine-grained, bedded, tuffaceous sediment with amygdaloidal basalt clasts to 2 cm. Lies between units 147.2 and 148.2.

### REYDARFJORDUR 1978

INTERPRETATION			- 869.73	ANGELE TLO	WOLTHIE	
MACROSCOPIC DESCR		1000.7	*	KELTA	DESCRIPTION OF STREET	nosco
			*			_
brecciated with into breccia at Depositional top underlain by uni	mygdaloidal, highl massive non-vesicu 869.55 m. Scatter and bottom contac t 149.1. Unit may ying flows of unit	red, large ets; overly be part	t below a e zeolite- lain by cl of larger	filled vugs astic unit complex co	s throughou 148.1 and	ıt.
						2
		02	5			
3					2	

#### MACROSCOPIC DESCRIPTION

Amygdaloidal, brecciated, highly altered basalt. Lies between units 148.2 and 149.2 and may be part of larger complex cooling unit including underlying and overlying flows.

#### REYDARFJORDUR 1978

INTERPRETATION Basalt	flow (complete?)	VOCA TALBES METAKENSHITE
MACROSCOPIC DESCRIPTION		(69) 791 F3230 DF10J8007
zones, grading with inc greenish-gray, aphyric few intervening breccia and bottom contacts; po overlying units 148.2 a	reasing size of clasts into basalt at about 874.90 m. I ted and highly vesicular zon	nes. Depositional top ing unit including l.l.
	. S	1.12/ 210
	NTERVAL(m) 881.12 - 883.85	THICKNESS (m) 2.73
UNIT NO151.1 I	001.12 - 003.03	

Scoriaceous, flow top breccia grading at about 882.20 m into greenish-gray to purplish-gray, fine-grained aphyric basalt with about 1% plagioclase microphenocrysts up to 2 mm long. A few lensoid to round, partly open amygdules in lower 1.2 m. Top and bottom contacts depositional, subhorizontal; lies between units 149.2 and 151.2.

#### REYDARFJORDUR 1978

UNIT NO.	151.2	INTERVAL (m	883.85 - 892.17	THICKNESS (m)	8.32
INTERPRETA	ATION	Basalt flow (c	omplete)	Named WOIT	374495100

#### MACROSCOPIC DESCRIPTION

Gray to reddish-gray, scoriaceous, flow top breccia with clasts to 12 cm consisting of fine-grained, vesicular, sparsely phyric basalt. Passes into more massive, vesicular basalt at about 887.16 m, which in turn passes into reddish-gray, basal breccia of vesicular clasts to 5 cm at 891.50 m. Phenocrysts about 1%, plagioclase and minor clinopyroxene. Unit separated from underlying unit 153.1 by about 10 cm of fine-grained sediment included with underlying breccia; contact dips about 40°. Unit overlain by flow of unit 151.1.

UNIT NO.	153.1	INTERVAL(m)	892.17 - 901.30	THICKNESS (m)	9.13
		_			
INTERPRET	ATION	Basalt flow (comp	lete)	G SIESES FOID	Law and

#### MACROSCOPIC DESCRIPTION

Reddish-gray, scoriaceous, flow top breccia with clasts to 10 cm, grading downward into brecciated basalt at about 893.25 m and to massive basalt at 893.70 m. Basalt aphyric at top, becomes sparsely plagioclase-phyric at base. Phenocrysts 3-5%, 7 mm long, mostly plagioclase with minor clinopyroxene. Lower 40 cm of flow are purplish-green, amygdaloidal. Amygdaloidal, subhorizontal fractured zones occur between 897.35 and 897.90. Lies between units 151.2 and 154.1; contacts depositional, subhorizontal, broken up.

THICKNESS(m) 6.50

#### REYDARFJORDUR 1978

UNIT NO. 154.1 INTERVAL(m) 901.30 - 907.80

INTERPRETATION Basalt flow (complete)

MACROSCOPIC DESCRIPTION

Reddish-gray, scoriaceous, flow to grading downward into massive, fivesicular basalt at about 903.90 flow banded and dark colored down 904.60 and 905.00 m. Thin brecci against underlying sediments of ut 153.1.	me-grained, aphyric, so m. Massive basalt becon wards. Brecciated zone a at base with depositi	omewhat omes increasingly e occurs between onal contact
UNIT NO. 155.1 INTERVAL(m)  INTERPRETATION Clastic unit (con	907.80 - 908.67	THICKNESS(m) 0.87
WCDOCCODIC DECEDEDATION	8	
MACROSCOPIC DESCRIPTION		NOTE TO THE PARTY OF THE PARTY OF THE
Reddish-black, fine to medium-gra	ined bedded to laminate	d tuffaceous

sediment in upper 20 cm. Lower part is light gray, bedded, fine- to coarse-grained tuff(?). Lies between units 154.1 and 155.2.

## REYDARFJORDUR 1978

UNIT NO	155.2 INTERVAL(m)	908.67 - 913.90	THICKNESS (m)	5.23
INTERPRETAT	TION Basalt flow (complet	te) (page and mail	11a268 2017A	YERGRAY
MACROSCOP IO	DESCRIPTION			
of fine-gr greenish-g About 75 c top and bo	own, scoriaceous, flow top rained, aphyric basalt to l gray, aphyric, fine-grained am of breccia occurs at bas ottom; lies between clastic	, massive basalt at a e of flow. Depositio units 155.1 and 156.	bout 909.70 m. nal contacts	editse dgglast etoslad etoslad dos vos sperar exercer
	byweels, write-187 and	at 40° . The comment		

UNIT NO. 1	56.1	INTERVAL(m)	913.90 -	914.88	THICKNESS (m)	0.98
INTERPRETATI	ION _C	lastic unit (incom	mplete)	geos) ila	OFFECT CLERKIC	1001

#### MACROSCOPIC DESCRIPTION

Dark brown, bedded pyroclastic sediments of highly variable grain size. Upper contact with unit 155.2 depositional; lower contact cut by dike of unit 157.1.

#### REYDARFJORDUR 1978

UNIT NO. 157.1 INTERVAL(m) 914.88 - 919.82 THICKNESS(m) 4.94
INTERPRETATION Basalt dike (complete)
MACROSCOPIC DESCRIPTION
Greenish-gray, medium-grained, aphyric basalt with ophitic texture; altered olivine in groundmass. Sparse vesicles; rock fractured in lower part. Contacts chilled against overlying clastic unit 156.1 and underlying ash-flow tuff of unit 157.2. Lower chilled contact highly fractured.
Flow upper Co. 1827.58 - 1842,642 m. (11) Application of the 1877.21
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157.2 161.1 INIT NO 162.1 INTERVAL (m) 919.82 050.55 THICKNESS (m) 70.77

#### INTERPRETATION Ignimbrite cooling unit (incomplete)

#### MACROSCOPIC DESCRIPTION

Compound, slightly feldspar-phyric ignimbrite cooling unit with 4 major flow units (A,B,C,D), the upper one (D) being truncated by dike of unit 157.1. Clastic unit 156.1 above the dike may be part of the same cooling unit. Base of cooling unit rests with sharp, subhorizontal, depositional contact on thick pyroclastic sediments of unit 163.1. Flow units are distingushed by breaks in grain size with a fine-grained 10-20 cm-thick basal layer in most (except A) and top fine-grained layer in unit B. Flow units differ from each other in color, grain size, amount and size of rock fragments, ratio of pumice lapilli to ash, degree of welding, and degree of alteration. lowermost flow unit (A) is poorly welded, the uppermost (D) moderately welded. The two central flow units show zones of intense welding overprinted by vapor phase zones, the lowermost of which cuts across the flow unit boundary between B and C. These vapor phase zones have large lenses of zeolite with red halo, possibly representing former vuggy pumice lapilli. These alteration zones are cut by numerous irregular fractures and the rock in these zones is very crumbly.

Units 157.2, 161.1 and 162.1 (continued)

Flow unit D: 919.82 - 927.60 m (lithologic unit 157.2)

Abrupt break at base from unit C to tan-gray, 15-cm-thick, fine-grained base of flow unit with gradual upward increase in size of pumice lapilli and rock fragments. Pumice lapilli above 925.00 m generally greater than 5 cm in size. Excellent eutaxitic texture of moderately welded tuff. Top 50 cm gray; upper contact cut off by dike of unit 157.1; probably at least several meters missing.

Flow unit C: 927.60 - 942.62 m (lithologic unit 157.2)

Dominantly light gray to light pinkish-purple in upper part, relatively fine-grained flow unit consisting of 4 subunits: 1) basal 2.5 m is gray blue with large zeolite lenses; 2) central light gray zone, very fine-grained with oxidized fractures; 3) upper zeolite-rich zone, blue-gray to reddish-white; 4) above about 929 m increasing proportion of vesicular and irregular bands and schlieren of basalt(?), possibly representing chilled basaltic magma mixed with rhyolite magma.

Flow unit B: 942.62 - 949.05 m (lithologic units 161.1)

Fine-grained (coarse ash) basal layer about 12 cm thick rests with depositional, subhorizontal contact on layer A and grades quickly upwards into main part of flow. Has slightly smaller grain size (more ash, pumice mostly less than 1 cm) and fewer rock fragments than unit A. Welding increases upwards. Upper third of lower zeolite-free zone most highly welded. Rock fragments almost absent above 946.20 m; grain size decreases upwards. Upper 20 cm light colored, very fine-grained rock.

Flow unit A: 949.05 - 950.55 (lithologic unit 162.1)

Dominantly light greenish-gray to greenish-brown rock with 5-50% of dark angular rock fragments, mostly 2-6 mm across. Some coarse-grained basalt fragments similar to rock of unit 163.2. Pumice lapilli slightly larger. Probably very little ash. Crystals of feldspar 4-6%, throughout unit. Very poorly welded but compacted. Sharp basal contact with unit 163.1.

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UNIT NO	1.67
INTERPRETATIONClastic unit (complete)	
MACROSCOPIC DESCRIPTION	
Dark blackish-brown in lower half to greenish-black in upper half, bedded to laminated, fine- to coarse-grained ash with a few layers of fine-graine lapillistone. Depositional upper and lower contacts with units 162.1 and 163.2, respectively; possibly part of overlying ignimbrite sequence.	∍d
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UNIT NO. 163.2 INTERVAL(m) 952.22 - 952.92 THICKNESS(m) 0	.70
INTERPRETATION Basalt flow (incomplete)	Tage I
MACROSCOPIC DESCRIPTION	
Dark gray, mostly coarse-grained, porphyritic, highly vesicular basalt, probably small part of much thicker flow. Plagioclase microphenocrysts or large microlites make up 20-30 vol.%, range up to 1 mm. Abundant round vesicles to 3 mm, filled with green smectite/chlorite and some zeolite and carbonate. Top contact depositionally overlain by unit 163.1; lower contact dips 80° against chilled dike of unit 163.3.	

INTERVAL(m) 952.92 - 975.53

THICKNESS (m) 22.61

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Dark gray, fine- to medium-grained, aphyric basalt. Two segregation veins about 1 cm wide at 30 and 50 cm below top of unit, dip 75-80°. Pyrite blebs disseminated throughout. Sparse fractures subhorizontal. Very massive and homogeneous unit. Chilled contacts dip about 40°,

UNIT NO. 163.3

MACROSCOPIC DESCRIPTION

cut units 163.2 and 167.1.

MACROSCOPIC DESCRIPTION

dike of unit 163.3.

INTERPRETATION Basalt dike (complete)

INTERPRETATION Clastic unit (incomplete)

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			can markeds	rent of the section o	
UNIT NO		975.53 - 9		THICKNESS (m)	1.10

Dark gray to reddish-gray, poorly bedded mudstone, siltstone, sandstone, and grit. Moderately well indurated. Bedding variable, dips about 20°. Depositional basal contact with unit 167.2; top contact truncated by

#### REYDARFJORDUR 1978

	167.2		976.63 - 981.66		5.03
	168.2		982.56 - 982.81	DEF SARE	0.25
	168.4		983.40 - 988.14		4.74
	169.2		988.82 - 988.98		0.16
UNIT NO.	169.4	INTERVAL(m)	989.16 - 997.03	THICKNESS (m)	7.87

INTERPRETATION Basalt flow (incomplete)

#### MACROSCOPIC DESCRIPTION

Because of the unusual porphyritic petrography of this rock, this series of incomplete lava flows is interpreted to be a single flow, or at least a single eruptive interval, cut by several thin dikes (168.1, 168.3, 169.1 and 169.3) Rock is gray to greenish-gray, fine- to medium grained, phyric basalt with about 5-10% plagioclase phenocrysts, 2 - 10 mm, subhedral, 2-3% clinopyroxene phenocrysts, and 1% opaque phenocrysts; rare olivine microphenocrysts occur at least in lower part. Fairly large, 1- 1.5 cm, amygdules common to 977.90 m, becoming smaller and less abundant (about 5%) below 977.90 m, filled with smectite/chlorite and zeolite. Sharp basal contact against dikes for unit 167.2, dips 20-40°; contacts with lower units dip 55-65° and are against chilled margins.

UNIT NO.	168.1	INT	ERVAL (m)	981.66	- 982.56	THICKNE	SS(m)	0.90	i kes
INTERPRETA	TION	Basalt di	e (comp	lete)	Company and	and seed.	2 93	regue	

#### MACROSCOPIC DESCRIPTION

Light grayish-green, aphyric, fine-grained basalt with chilled top and bottom contacts against unit 167.2 and 168.2, respectively.

INTERVAL(m) 982.81 - 983.40 THICKNESS(m) 0.59

## REYDARFJORDUR 1978

UNIT NO. 168.3

INTERPRETATION Basalt dike (complete)
MACROSCOPIC DESCRIPTION
Light grayish-green, fine-grained, aphyric basalt with chilled contacts above and below with units 168.2 and 168.4, respectively.
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depend the smeet trained and smooth of the best smeet the best sme
The wait 107.1, digs 20-40"; contacts with lower units him \$3-55"
UNIT NO. 169.1 INTERVAL(m) 988.14 - 988.82 THICKNESS(m) 0.68
INTERPRETATION Basalt dike (complete)
MACROSCOPIC DESCRIPTION
Dark gray, fine- to medium-grained, aphyric basalt; slightly vesicular bands
in central part. Upper and lower contacts chilled against units 168.4 and
169.2, respectively.

## REYDARFJORDUR 1978

ACROSCOPIC DESCR	IPTION		HOLTSTER	
na boccom contac	ts chilled agains	basalt with central vest units 169.2 and 16	59.4, respecti	ively.
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				.4, 168.2 30
1				

Grayish-green, fine- to medium-grained, aphyric basalt with some vesicle zones. Plagioclase phenocrysts 1%, 2-3 mm, subhedral, mostly below 994.00 m. Upper contact subhorizontal, chilled against unit 169.4; lower contact inclined,

chilled against unit 172.1.

# REYDARFJORDUR 1978

UNIT NO.	172.1	INTERVAL (m)	1005.35 - 1022.60	THICKNESS (m)	17.25
UNII NO.				erand Wilter	
INTERPRETA	TION _	Basalt flow (incom	nplete)	2 210252	

## MACROSCOPIC DESCRIPTION

Reddish-gray, phyric, slightly vesicular basalt; plagioclase phenocrysts 15-20%, 2-4 mm, clinopyroxene phenocryts 2%, 0.5 - 0.8 mm, olivine phenocrysts 1-2%, 1-2 mm. Percent of plagioclase phenocrysts decreases at about 1012.30 m to about 5% and this amount is typical of lower part of core. Aphyric below 1015.0 m. Basal part below 1021.0 m brecciated with clasts up to 5 cm. Upper contact truncated by intrusive contact of unit 170.1; lower contact depositional, indistinct, rests on unit 175.1. This unit is petrographically similar to the overlying flow sequence represented by units 167.2, 168.2, 168.4, 169.2 and 169.4 and may be part of the same flow or flow sequence.

UNIT NO. 1	75.1	INTERVAL(m)	1022.60 - 1029.40	THICKNESS (m)	6.80
INTERPRETATIO	N Basal	t flow (comple	ete)	h Yinzas 19917A	H DED III

## MACROSCOPIC DESCRIPTION

Reddish-brown, altered, scoriaceous, flow top breccia with clasts to 5 cm. Grades downward into gray, fine-grained to medium-grained, aphyric basalt at about 1026.40 m. Below this level breccia occurs again and continues to base of flow. Lower breccia has clasts to 10 cm. Abundant calcite and zeolite in vesicles and veins. Upper and lower contacts with units 172.1 and 176.1, respectively are indistinct, depositional and drawn somewhat arbitrarily.

## REYDARFJORDUR 1978

UNIT NO. 176.1 INTERVAL(m) 1029.40 - 1036.86 THICKNESS(m) 7.46

INTERPRETATION Basalt flow (complete)

## MACROSCOPIC DESCRIPTION

Gray to grayish-brown, altered, scoriaceous breccia with clasts to 2 cm, grading downward into fine-grained, red-stained sparsely phyric basalt at about 1031.70 m. Microphenocrysts 2-3%, chiefly plagioclase and minor clinopyroxene, 1- 4 mm. Basal breccia occurs below 1036.40 m. Abundant zeolite and calcite in breccia matrix and vesicles. Depositional contacts with units 175.1 and 177.1. 10-cm-thick clastic unit of red brown claystone occurs at lower contact.

177.1 178.2 UNIT NO. 178.4 UNIT NO. 178.4 UNIT NO. 1036.86 - 1039.33 1039.50 - 1043.04 1043.80 - 1048.68 THICKNESS (m) 4.88

INTERPRETATION Basalt flow (incomplete)

## MACROSCOPIC DESCRIPTION

Because of petrographic similarity and small interrupted interval these three units are interpreted to be part of a single, slightly phyric basalt flow cut by 2 dikes (units 178.1 and 178.3). Unit 177.1 is reddish-brown to greenish-gray, scoriaceous, flow top breccia with some fragments to 30 cm in diameter, grading into porphyritic, vesicular basalt at about 1038.70 m. Unit 178.2 is gray, slightly vesicular, fine-grained, sparsely phyric basalt similar to the lower part of 177.1. Phenocrysts are plagioclase 5%, 1-1.5 mm, clinopyroxene 1%, and olivine 1%, altered to smectite/chlorite. Massive basalt continues into unit 178.4 where it grades downward into basal breccia at 1048.00 m. Top contact of 177.1 and lower contact of 178.4 depositional, subhorizontal. Other contacts are chilled margins of dikes. The entire flow lies between units 176.1 and 179.1.