T	T	1	<u> </u>		I			
Leg	Site	Hole	Core	Section	Position (cm) in core Sm	.Slide#	Observer	PR
					iii corc 5ii	I.Slide #		
379	1533	1	IH	IΔ	30	SSI		
<u> </u>	1 77	1	L	V/\		<u>~~1</u>		
LITHOL	.OGY:				(dominan	t)		(minor)
COMP	OCITIO	1. 0/ Tax		90	0/ D:	. 10		The second secon
COIVIP	USITIUI	v: % rer	rigenous	10	% Bio	genic $\frac{/O}{}$	<del></del>	(=100%)
	Sili	ciclastic	texture (	%)	7			Abundance Code
0/ 5								≤ 1% = TR (trace) 1% - 10% = R (rare)
<u> % S</u>	Sand	% S		% Clay				10% - 25% = C (common)
		8	,	92	( = 100%)			25% - 50% = <b>A</b> (abundant) > 50% = <b>D</b> (dominant)
						_		230% = D (dominant)
Ab. Co		omponer				Ab. Cod		
S			AINS/MIN			ВІО	GENIC GRAINS	
<del> </del>			k mineral	S		4	Calcareous	
1	2	Quartz Feldspa	·			-	Foramir	ifers
			ldspar			-	Nannofo	ossils
<b> </b>			ioclase				Calcared	ous debris (undifferentiated)
			agments	~~~		1		
							Siliceous	
v			NIC GRA	INS		77	Radiola	rians
		uhedral c				R	Diatom	S
			(glass, p			-	Silicofla	gellates
	-   P	alagonite	(altered	giass)		-		spicules
А	CCESSC	RY/TRAC	E MINER	ALS		1 2		s debris (undifferentiated)
	SI	neet Silica	ites					
		otite					Others	
7		luscovite					Organio	Debris
	r c	nlorite				P	Plant Do	
	Fe	e-Mg silic	ates	·		-	Fish Rei	mains (teeth, bones, scales)
			ole (horr	blende)		-		
		Garnet				Commen	its:	
		Pyroxer	ne			1		
		Olivine						
	<del>-                                     </del>	ther indic	ator min	arale		-		
		auconite		21 015		-		
		nert		· · · · · · · · · · · · · · · · · · ·		1		
		ircon				1		
	Α	patite				1 (.		
	T	itanite (s <sub>l</sub>	ohene)					
	Ca	rbonate				1 IKS	in preser	4
		.a.la.!				]		Value de la Constantina del Constantina de la Co
	<u>Al</u>		minerals			4		
	<del></del>	Barite	nese Oxid			1		
	_	Zeolite	iese Oxio	<b>C</b>				
		LCOILLE				1		
	0	oaque Mi	nerals			1		
		Pyrite		*		1		

Fe-oxide / Fe-hydroxide

Leg	Site	Hole	Core	Section	Position (c in core	m) Sm.Slide #
379	1533>	0	IH	2A	132	552

8

Observer	DR

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	50	% Biogenic	50	(=100%)

(=100%)

Abundance Code

≤ 1% = TR (trace)

1% - 10% = R (rare)

10% - 25% = C (common)

25% - 50% = A (abundant)

> 50% = D (dominant)

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
P	Quartz
Tr	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	 ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
	(-1.0.00 8.000)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
77	Biotite
- Tr	Muscovite
<u></u>	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
R	Fe-oxide / Fe-hydroxide

4	
Ab. Code	Component
BIOG	ENIC GRAINS
	Calcareous
ganet rather plan	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
Ŷ	
	Siliceous
71	Radiolarians
A	Diatoms
	Silicoflagellates
p.	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

**Comments:** 

whole diatom to other siliceous material present (picture pravided).

									The state of the s	
Leg	Site	Hole	Core	Section	Position (d	cm) Sm.Sl	ide#	Observer	PR	
379	1533	0	14	AA	27	SS	3			
LITHOL	.OGY:		* * * * * *		(dom	inant)			(minor)	
COMP	OSITIC	ON: % Ter	rigenous	90	<u> </u>	Biogen	ic <u>  0</u>	) : 	(=100%)	
% 5	S Sand	iliciclastic % S	ilt	%) % Clay 85	( = 100%	6)			Abundance Code ≤ 1% = TR (trace) 1% - 10% = R (rare) 10% - 25% = C (common) 25% - 50% = A (abundant) > 50% = D (dominant)	
Ab. Co		Componer					Ab. Code			
S		ASTIC GRA					BIO	GENIC GRAINS		
	<del></del>	Frameworl	k mineral	S				Calcareous		
F	2_	Quartz			····			Foramin	ifers	
ļ		Feldspa						Nannofo	ssils	
			ldspar						us debris (undifferentiated)	
			ioclase					Calcarco	da debria (dildirierentiated)	
		ROCK Fr	agments					- Cili		
V	OLCAI	NIC/PLUTO	NIC GRA	INC				Siliceous	-	
		Euhedral c			<del></del>			Radiolar	rians	
77		Vitric grain		umice)			12	Diatoms	3	
		Palagonite					The state of the s	gellates		
			(uncorous	B14401	***************************************		TY	Sponge spicules		
Α	CCESS	ORY/TRAC	E MINER	ALS				Siliceous	s debris (undifferentiated)	
		Sheet Silica	ites							
		Biotite					1	Others		
		Muscovite						Organic	Debris	
		Chlorite					77			
		Fo Ma silio					1		nains (teeth, bones, scales)	
		Fe-Mg silica		ا ماندنده اطر					tectify bories, searce,	
		Garnet	ole (horr	ibiende)			<u> </u>	<u> </u>		
							Commen	ts:		
		Pyroxene Olivine							***************************************	
		Other indic	ator min	erals						
		Glauconite			7 16 16					
		Chert					1.	, the C		
		Zircon					= diatorn & spicule from			
		Apatite								

Titanite (sphene)

Authigenic minerals
Barite

Manganese Oxide

Fe-oxide / Fe-hydroxide

Carbonate

Zeolite

Opaque Minerals Pyrite diatorn despicule fragments present. Tresphencies

Leg	Site	Hole	Core	Section	Position (ci	m) Sm.Slide #
379	1533	Ø	X	3A	50	584

Observer	PR	
-		

LITHOLOGY:		(dominant)	¥ .	1	(minor)
COMPOSITION: % Terrigenous	50	% Biogenic	50		(=100%)

Sili	Siliciclastic texture (%)					
% Sand	% Silt	% Clay				
	10	90	( = 100%)			

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = <b>D</b> (dominant)

AD. Code   Component   SILICICLASTIC GRAINS/MINERALS   Framework minerals   Quartz   Feldspar   K-feldspar   Plagioclase   Rock Fragments    VOLCANIC/PLUTONIC GRAINS   Euhedral crystals   Vitric grain (glass, pumice)   Palagonite (altered glass)    ACCESSORY/TRACE MINERALS   Sheet Silicates   The Muscovite   The Muscovite   The Chlorite    Fe-Mg silicates   Amphibole (hornblende)   Garnet   Pyroxene   Olivine    Other indicator minerals   Glauconite   Chert   Zircon   Apatite   Titanite (sphene)    Carbonate    Authigenic minerals   Barite   Manganese Oxide   Zeolite    Opaque Minerals   Pyrite   Fe-oxide / Fe-hydroxide	AL 6 1	
Framework minerals Quartz Feldspar K-feldspar Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates The Biotite The Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	Ab. Code	Component
Feldspar K-feldspar Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates The Biotite The Muscovite The Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	SILICI	
Feldspar K-feldspar Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates The Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	<u> </u>	
K-feldspar Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	K	
Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates  The Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates  The Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
VOLCANIC/PLUTONIC GRAINS  Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Rock Fragments
Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	VOLC	ANIC/PILITONIC GRAINS
Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates The Biotite The Muscovite The Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	VOLC	
ACCESSORY/TRACE MINERALS  Sheet Silicates  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
ACCESSORY/TRACE MINERALS  Sheet Silicates  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Sheet Silicates  The Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		r alagorite (altered glass)
Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	ACCES	SSORY/TRACE MINERALS
Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Sheet Silicates
Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	ナル	Biotite
Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	tr	Muscovite
Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	Tr	Chlorite
Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Olivine
Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Other indicator minerals
Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Apatite Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		Chert
Apatite Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		Zircon
Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		Apatite
Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Carbonate
Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Authicania minarala
Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Zeolite  Opaque Minerals  Pyrite		
Opaque Minerals Pyrite	ļ	
Pyrite		Zeonte
Pyrite		Opaque Minerals
	R	

Ab. Code	Component
BIOGE	ENIC GRAINS
and the second	Calcareous
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	Siliceous
71	Radiolarians
A	Diatoms
	Silicoflagellates
12_	Sponge spicules
tr	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
P	Plant Debris
	Fish Remains (teeth, bones, scales)

diatoms, spicules, vadiolations, tother siliceous dubns present.

Leg	Site	Hole	Core	Section	Position (ci	m) Sm.Slide #
379	15.2	0	aH	lA	୧୪	5514

Observer Dt2

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	50	% Biogenic	50	(=100%)

Silic	iclastic texture	e (%)	
% Sand	% Silt	% Clay	
	15	85	( = 1009

A	bundance Code
≦	1% = TR (trace)
1 1	% - 10% = R (rare)
10	0% - 25% = <b>C</b> (common)
2	5% - 50% = <b>A</b> (abundant)
>	50% = <b>D</b> (dominant)

Ab. Code	Component			
	CLASTIC GRAINS/MINERALS			
312101	Framework minerals			
0	Quartz			
L. constant	Feldspar			
	K-feldspar			
	Plagioclase			
	Rock Fragments			
VOLC	ANIC/PLUTONIC GRAINS			
	Euhedral crystals			
	Vitric grain (glass, pumice)			
	Palagonite (altered glass)			
	CSODY/TRACE ANNERS ALC			
ACCE	SSORY/TRACE MINERALS			
	Sheet Silicates  Diaties			
	Biotite			
77	Muscovite			
10	Chlorite			
	Fe-Mg silicates			
+1	Amphibole (hornblende)			
	Garnet			
	Pyroxene			
	Olivine			
	Other indicator minerals			
	Glauconite			
	Chert			
	Zircon			
	Apatite			
	Titanite (sphene)			
	Carbonate			
	Carbonate			
	Authigenic minerals			
	Barite			
Manganese Oxide				
	Zeolite			
	Opaque Minerals			
	Pyrite			
Tr	Fe-oxide / Fe-hydroxide			
- ' '				

	-
Ab. Code	Component
BIOGE	NIC GRAINS
1	<u>Calcareous</u>
Bearing	Foraminifers
200	Nannofossils
	Calcareous debris (undifferentiated)
	Siliceous
TA	Radiolarians
A	Diatoms
	Silicoflagellates
R	Sponge spicules
7	Siliceous débris (undifferentiated)
	<u>Others</u>
	Organic Debris
Th	Plant Debris
-	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr in core	n) Sm.Slide #
379	1533	0	24	2 A	75	SS5

Observer OR

LITHOLOGY:		(dominant)	\$ 1	(minor)
COMPOSITION: % Terrigenous	50	% Biogenic	50	(=100%)

Silic	iclastic texture	e (%)	
% Sand	% Silt	% Clay	
	12	88	( = 100%

(	=	100%)
---	---	-------

	Abundance Code
1	≤ 1% = TR (trace)
ı	1% - 10% = R (rare)
	10% - 25% = <b>C</b> (common)
	25% - 50% = A (abundant)
	> 50% = <b>D</b> (dominant)

Ab. Code	Component			
SILICI	CLASTIC GRAINS/MINERALS			
	Framework minerals			
R	Quartz			
	Feldspar			
	K-feldspar			
	Plagioclase			
	Rock Fragments			
VOLC	ANIC/PLUTONIC GRAINS			
VOLC	Euhedral crystals			
	Vitric grain (glass, pumice)			
	Palagonite (altered glass)			
	Falagonite (altered glass)			
ACCE	SSORY/TRACE MINERALS			
	Sheet Silicates			
	Biotite			
TY	Muscovite			
	Chlorite			
	Fe-Mg silicates			
Amphibole (hornblende)				
	Garnet			
	Pyroxene			
	Olivine			
	Other indicator minerals			
	Glauconite			
	Chert			
	Zircon			
	Apatite			
	Titanite (sphene)			
	Carbonate			
	Authigenic minerals			
	Barite			
	Manganese Oxide			
	Zeolite			
	Opaque Minerals			
	Pyrite			
Th	Fe-oxide / Fe-hydroxide			

Ab. Code   Component
Calcareous Foraminifers Nannofossils Calcareous debris (undifferentiated)  Siliceous Radiolarians A Diatoms Silicoflagellates  P Sponge spicules Siliceous debris (undifferentiated)
Foraminifers Nannofossils Calcareous debris (undifferentiated)  Siliceous Radiolarians A Diatoms Silicoflagellates Sponge spicules Siliceous debris (undifferentiated)
Nannofossils Calcareous debris (undifferentiated)  Siliceous Radiolarians A Diatoms Silicoflagellates P Sponge spicules Siliceous debris (undifferentiated)
Calcareous debris (undifferentiated)  Siliceous  Radiolarians  Diatoms  Silicoflagellates  Sponge spicules  Siliceous debris (undifferentiated)
Siliceous  Radiolarians  Diatoms Silicoflagellates Sponge spicules Siliceous debris (undifferentiated)
Radiolarians  Diatoms  Silicoflagellates  Sponge spicules  Siliceous debris (undifferentiated)
Radiolarians  Diatoms  Silicoflagellates  Sponge spicules  Siliceous debris (undifferentiated)
Diatoms Silicoflagellates Sponge spicules Siliceous debris (undifferentiated)
Silicoflagellates  P Sponge spicules  Siliceous debris (undifferentiated)
Sponge spicules Siliceous debris (undifferentiated)
Siliceous debris (undifferentiated)
<u>Others</u>
<u>Others</u>
Organic Debris
Tr Plant Debris
Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide	
379	1333	0	2H	3 A	50	SS 15

Observer pp

LITHOLOGY:		(dominant)	1		(minor)
COMPOSITION: % Terrigenous	92_	- % Biogenic	8	(=	=100%)

Silic			
% Sand	% Silt	% Clay	1
	15	25	( = 100%

	Abundance Code
	≤ 1% = TR (trace)
	1% - 10% = R (rare)
	10% - 25% = C (common)
į	25% - 50% = A (abundant)
1	>50% - D (dominant)

Ab. Code	Component
	CLASTIC GRAINS/MINERALS
SILICI	Framework minerals
2	Quartz
Parameter 1	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
Tr	Vitric grain (glass, pumice)
	Palagonite (altered glass)
	3,
ACCE:	SSORY/TRACE MINERALS
	Sheet Silicates
10	Biotite
Topon	Muscovite
TT	Chlorite
	Fe-Mg silicates
Tr	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	i i i i i i i i i i i i i i i i i i i
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
Th	Fe-oxide / Fe-hydroxide

Ab. Code	Component
	Component
BIOGE	NIC GRAINS
	<u>Calcareous</u>
	Foraminifers
	Nannofossi s
	Calcareous debris (undifferentiated)
1 :	
-	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
-the	Sponge spicules
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Siliceous debris (undifferentiated)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	al.
( - ( -	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide	
379	1533	0	24	3A	120	856

Observer OR

LITHOLOGY:		(dominant)	\$ : \$ :	(minor)
COMPOSITION: % Terrigenous	80	% Biogenic	20	(=100%)

Silic			
% Sand	% Silt	% Clay	
	12-	88	( = 1009

(	=	100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = <b>D</b> (dominant)
> 30% - D (dominant)

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
2	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOI 6	ANIC (DUITONIC CRAINC
VOLC	ANIC/PLUTONIC GRAINS
1.4	Euhedral crystals
<u> </u>	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
17	Muscovite
ナか	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Zeonte
	Opaque Minerals
	Pyrite
tr	Fe-oxide / Fe-hydroxide
1 !	10 Oxide / 10 Hydroxide

4	
Ab. Code	Component
BIOGE	INIC GRAINS
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
Process April	
	Siliceous
Th	Radiolarians
R	Diatoms
1	Silicoflagellates
R	Sponge spicules
Th	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
tr	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr in core	n) Sm.Slide #
379	1533	D	24	AA	80	SS7

Observer OR

LITHOLOGY:	(dominant)			(minor)
COMPOSITION: % Terrigenous	line jobo	% Biogenic	50	(=100%)

Silici	clastic texture	e (%)
% Sand	% Silt	% Clay
	15	85

( = 100%)

Abun	dance Code	
≤1%:	= TR (trace)	
1% - 1	10% = <b>R</b> (rare)	
10% -	25% = C (common)	
25% -	50% = A (abundant)	
> 50%	= D (dominant)	

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
VOLC	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
	r alagorite (altered glass)
ACCE	SSORY/TRACE MINERALS
	<u>Sheet Silicates</u>
_tr	Biotite
<u>tc</u>	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opagua Minorale
	Opaque Minerals  Divite
71	Pyrite
Tr	Fe-oxide / Fe-hydroxide

1.1	
Ab. Code	Component
BIOGE	NIC GRAINS
The state of the s	Calcareous
Control of the Contro	Foraminifers
And produced	Nannofossils
<u>.</u>	Calcareous debris (undifferentiated)
20 m	
8000	<u>Siliceous</u>
Tr	Radiolarians
A	Diatoms
	Silicoflagellates
P	Sponge spicules
	Siliceous debris (undifferentiated)
are constitution of	
	<u>Others</u>
	Organic Debris
Tr	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Slide #
379	1233	b	24	AA	54	550

Observer	02

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	50	% Biogenic	50	( <del>-</del> 100%)

	Siliciclastic texture (%)					
% Sand	% Sand % Silt % Clay					
		8	92	( = 100%)		

1	
Abundance Code	
≤ 1% = TR (trace)	
1% - 10% = R (rare)	
10% - 25% = C (common)	
25% - 50% = A (abundant)	
> 50% = D (dominant)	

Ab. Code	Component				
SILICI	CLASTIC GRAINS/MINERALS				
	Framework minerals				
12_	Quartz				
	Feldspar				
	K-feldspar				
	Plagioclase				
	Rock Fragments				
VOLC	 ANIC/PLUTONIC GRAINS				
	Euhedral crystals				
	Vitric grain (glass, pumice)				
	Palagonite (altered glass)				
ACCE	SSORY/TRACE MINERALS				
- sukous om	Sheet Silicates				
<u> </u>	Biotite				
77	Muscovite				
+1	Chlorite				
	Fe-Mg silicates				
	Amphibole (hornblende)				
	Garnet				
	Pyroxene				
	Olivine				
	Other indicator minerals				
	Glauconite				
	Chert				
	Zircon				
	Apatite				
	Titanite (sphene)				
	Carbonate				
	Authigenic minerals				
	Barite				
	Manganese Oxide				
	Zeolite				
	Opaque Minerals				
	Pyrite				
Tr	Fe-oxide / Fe-hydroxide				

Ab. Code	Component
BIOGE	NIC GRAINS
	Calcareous
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	Siliceous
tr	Radiolarians
A	Diatoms
	Silicoflagellates
R	Sponge spicules
	Siliceous debris (undifferentiated)
No. 22 and part	
	<u>Others</u>
	Organic Debris
71	Plant Debris
	Fish Remains (teeth, bones, scales)

token from lighter coloned pod

Leg	Site	Hole	Core	Section	Position (cr in core	n) Sm.Slide #
379	1573	O	24	5A	74	559

Observer OP

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	40	% Biogenic	60	(=100%)

Silic	Siliciclastic texture (%)				
% Sand	% Sand % Silt % Clay				
	5	95	( = 100%)		

Abundance Code
<b>≤1% = TR (trace)</b>
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
SILIC	CLASTIC GRAINS/MINERALS
	Framework minerals
<u> </u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
-Tr	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
·	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Treatine (aprillar)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Onegue Minerale
	Opaque Minerals
- Andrews	Pyrite
Tr	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGE	NIC GRAINS
	Calcareous
	Foraminifers
o Dantesed	Nannofossils
	Calcareous debris (undifferentiated)
Control State	
	<u> Ŝiliceous</u>
Tr	Radiolarians
D	Diatoms
1	Silicoflagellates
R	Sponge spicules
<u>'</u>	Siliceous debris (undifferentiated)
To a control of the c	
	<u>Others</u>
	Organic Debris
tr	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (ci	m) Sm.Slide #
379	1533	D	2H	6A	38	0122

Observer OR

LITHOLOGY:		(dominant)	Control of the contro	(minor)
COMPOSITION: % Terrigenous	99	% Biogenic		(=100%)

Sili	ciclastic textur	e (%)	]
% Sand	% Silt	% Clay	
5	40	65	( = 100%

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
<u> </u>	Quartz
R	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	 ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	<u>Sheet Silicates</u>
P_	Biotite
	Muscovite
Tr	Chlorite
1	Fe-Mg silicates
Th	Amphibole (hornblende)
	Garnet
Tr	Pyroxene
	Olivine
	Other indicator minerals
tr	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	One was Missessel
	Opaque Minerals
- An	Pyrite
R	Fe-oxide / Fe-hydroxide

8 -	
Ab. Code	Component
BIOGE	NIC GRAINS
	Calcareous
V	Foraminifers
and the second	Nannofossils
	Calcareous debris (undifferentiated)
1 m	
	Siliceous
	Radiolarians
$T \gamma \gamma$	Diatoms
	Silicoflagellates
TT	Sponge spicules
	Siliceous debris (undifferentiated)
1	
	<u>Others</u>
	Organic Debris
Th	Plant Debris
	Fish Remains (teeth, bones, scales)

Comments:

taken from lawler brown pod.

Leg	Site	Hole	Core	Section	Position (ci	m) Sm.Slide #
379	1233	9	24	IA	3	SSII

Observer DR

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	40	% Biogenic	60	(=100%)

Silic	iclastic texture	e (%)	7
% Sand	% Silt	% Clay	
	10	00	( = 100%

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
TZ_	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
1/01.6	ANIC (DIVITONIC CD AING
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
Tr	Muscovite
2	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Code
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
TR	Fe-oxide / Fe-hydroxide
	10 onide / 10 flydroxide

Ab. Code	Component
BIOGE	NIC GRAINS
The state of the s	<u>Calcareous</u>
	Foraminifers
	Nannofossils
1	Calcareous debris (undifferentiated)
The first transfer	
4	Siliceous
Tr	Radiolarians
A	Diatoms
	Silicoflagellates
R	Sponge spicules
1	Siliceous debris (undifferentiated)
į.	<u>Others</u>
	Organic Debris
Tr	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Slide #
379	1577	0	aH	6 A	28	8812

Observer DD

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	93	% Biogenic	7	(=100%)

Si	iciclastic textur	e (%)	
% Sand	% Silt	% Clay	
	18	82	( = 100%)

		Abundance Code
		≤ 1% = TR (trace)
		1% - 10% = R (rare)
		10% - 25% = C (common)
		25% - 50% = A (abundant)
1		> 50% = <b>D</b> (dominant)
Al- CI-	.   6	1

Ab. Code	Composit
· · · · · · · · · · · · · · · · · · ·	Component
SILICI	CLASTIC GRAINS/MINERALS  Framework minerals
13	
and desired and the	Quartz
1.5	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
77	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCES	SSORY/TRACE MINERALS
	Sheet Silicates
The	Biotite
	Muscovite
Tr.	Chlorite
	Fe-Mg silicates
_ tr	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
tr	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGI	ENIC GRAINS
	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	Siliceous
	Radiolarians
P_	Diatoms
	Silicoflagellates
Th	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
1	Organic Debris
Tr	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Slide #
379	23	9	2H	6 A	51	SS 13

	Observer	DR
-	9	

LITHOLOGY:	(dominant)				(minor)
COMPOSITION: % Terrigenous	94	% Biogenic	6		(=100%)

Silic	iclastic texture	e (%)	
% Sand	% Silt	% Clay	1
	10	90	( = 100%

(	=	100%)
١,		200,0,

		Abundance Code ≤ 1% = TR (trace) 1% - 10% = R (rare) 10% - 25% = C (common) 25% - 50% = A (abundant)
Maria de la compansión de	į L	> 50% = <b>D</b> (dominant)
\b. Code	Component	

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
TOLO	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
	T diagonite (artered glass)
ACCE:	SSORY/TRACE MINERALS
	Sheet Silicates
17	Biotite
7r	Muscovite
- Tr	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
Tr	Fe-oxide / Fe-hydroxide
tr	

Ab. Code	Component
BIOGE	ENIC GRAINS
A Comment	Calcareous
1	Foraminifers
100	Nannofossils
1	Calcareous debris (undifferentiated)
ar a sa	
7	<u>Siliceous</u>
	Radiolarians
R	Diatoms
	Silicoflagellates
7	Sponge spicules
TY	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)
	8

Leg	Site	Hole	Core	Section	Position (cr in core	n) Sm.Slide #
379	1533	O)	3H	IA	70	5516

	Observer	DE
:		
		· · · · · · · · · · · · · · · · · · ·

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	70	% Biogenic	30	(=100%)

	(%)	clastic texture	Silici
	% Clay	% Silt	% Sand
(=	25	15	

( = 10	0%)
--------	-----

1	
Ab	undance Code
≦ 1	.% = TR (trace)
1%	- 10% = R (rare)
10	% - 25% = <b>C</b> (common)
25	% - 50% = A (abundant)
> 5	60% = D (dominant)

Ab. Code   Compone	ent
	RAINS/MINERALS
Framewo	rk minerals
Quart	Z
Feldsp	par
	feldspar
	agioclase
Rock I	Fragments
VOLCANIC/DILIT	PONIC CRAINC
VOLCANIC/PLUT	
Euhedral	
	in (glass, pumice)
Palagonit	e (altered glass)
ACCESSORY/TRA	ACE MINERALS
Sheet Sili	
Biotite	
77 Muscovit	е
77 Chlorite	
<u>Fe-Mg sil</u>	icates
77 Amph	ibole (hornblende)
Garne	rt
Pyrox	ene
Olivin	e
Out i	15
	licator minerals
Glauconit	<u>te</u>
Chert	
Zircon	
Apatite Titanite	(cnhono)
Titalile	(sprierie)
Carbonat	æ
Authigen	ic minerals
Barite	
Mang	anese Oxide
Zeolit	e
Opaque I	<u> Minerals</u>
Pyrite	
	ide / Fe-hydroxide
* '	

Ab. Code	Component
BIOGI	ENIC GRAINS
P. Control	Calcareous
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
, and the second	
	Siliceous
Th	Radiolarians
<b>C</b>	Diatoms
	Silicoflagellates
P_	Sponge spicules
	Siliceous debris (undifferentiated)
don't a Comp	
	<u>Others</u>
ナン	Organic Debris
<u> </u>	Plant Debris
3 - 1 - 2 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Slide #
379	B	D	3H	2A	37	SI17.

Observer BR

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	99	% Biogenic	1	(=100%)

Silic	clastic texture	e (%)
% Sand	% Silt	% Clay
	18	82

( = 100%)

Abı	undance Code
≤ 1	% = TR (trace)
1%	- 10% = R (rare)
109	% - 25% = <b>C</b> (common)
259	% - 50% = A (abundant)
- 1	0% = D (dominant)

	10 02
	<b>T</b>
Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
R	Quartz
すて	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	 ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
1000	
ACCE:	SSORY/TRACE MINERALS
	Sheet Silicates
Tr	Biotite
77	Muscovite
10	Chlorite
	Fe-Mg silicates
Th	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
TT	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGE	NIC GRAINS
- Established	Calcareous
7	Foraminifers
100	Nannofossils
	Calcareous debris (undifferentiated)
	<u>Siliceous</u>
	Radiolarians
<u>)</u> ,	Diatoms
	Silicoflagellates
	Sponge spicules
Tr	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
71	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (ci	m) Sm.Slide #
379	583	Ø	34	2A	941	8518

Observer	DR
!	

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	98	% Biogenic	2	(=100%)

(=100%)

Siliciclastic texture (%)

% Sand % Silt % Clay

25

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
C_	Quartz
2	Feldspar
•	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	 SSORY/TRACE MINERALS
	Sheet Silicates
R	Biotite
ナヤ	Muscovite
R	Chlorite
	Fe-Mg silicates
T	Amphibole (hornblende)
	Garnet
tr	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	T

Carbonate

Zeolite

Opaque Minerals
Pyrite

Authigenic minerals
Barite

Manganese Oxide

Fe-oxide / Fe-hydroxide

1	
Ab. Code	Component
BIOGE	NIC GRAINS
	<u>Calcareous</u>
	Foraminifers
100	Nannofossils
	Calcareous debris (undifferentiated)
Special service.	
	Siliceous
The state of the s	Radiolarians
7	Diatoms
-	Silicoflagellates
+r	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
1	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	
379	1233	P	34	3A	30	5519

Observer	DR	
·	<b>!</b>	

LITHOLOGY:		(dominant)		<u>:</u>	(minor)
COMPOSITION: % Terrigenous	70	% Biogenic	30	(=	100%)

Silic	iclastic texture	e (%)
% Sand	% Silt	% Clay
	1 =	215

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

	00
Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
R	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	L ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
7000	Sheet Silicates
	Biotite
R	Muscovite
75	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
7	Fe-oxide / Fe-hydroxide
( )	Te onide / Te-trydronide

Ab. Code	Component
BIOGE	ENIC GRAINS
	Calcareous
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
1	Siliceous
か	Radiolarians
C.	Diatoms
	Silicoflagellates
A-	Sponge spicules
+	Siliceous debris (undifferentiated)
No. of the Control of	
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Slide #
379	SS	V	34	3A	139	5520

Observer	DR
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LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	85	% Biogenic	15	(=100%)

Siliciclastic texture (%)				
% Clay	% Silt	% Sand		
75	25			

Abundance Code	
≤ 1% = TR (trace)	
1% - 10% = R (rare)	
10% - 25% = C (common)	
25% - 50% = A (abundant)	
> 50% = <b>D</b> (dominant)	

r	
Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
<u>C</u>	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
	, and german (union on Brace)
ACCES	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
- +0	Muscovite
*r	Chlorite
	Fe-Mg silicates
m p	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
Tr	Fe-oxide / Fe-hydroxide
	. a smacy to tryatomae

Ab. Code	Component	
BIOGE	NIC GRAINS	
	Calcareous	
	Foraminifer	s
	Nannofossi	S
	Calcareous	debris (undifferentiated)
	\$7 	
	<u>Siliceous</u>	
せ	Radiolariar	is
R	Diatoms	
	Silicoflagell	ates
R.	Sponge spi	cules
	Siliceous de	ebris (undifferentiated)
	2. 1. 1.	
	<u>Others</u>	
1	Organic De	bris
77	Plant Debri	S
	Fish Remai	ns (teeth, bones, scales)
	11.00	

Leg	Site	Hole	Core	Section	Position (c in core	m) Sm.Slide #
379	127	D	34	44	20	J31

Observer 1 1/10	
DR.	

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	75	% Biogenic	25	(=100%)

Silici	clastic texture	≘ (%)
% Sand	% Silt	% Clay
	12	88

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = <b>D</b> (dominant)

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
Roman	Quartz
Tr	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOL 6	ANIC /DI LITONIC CD AINC
VOLCA	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCES	SSORY/TRACE MINERALS
	Sheet Silicates
-th	Biotite
Tr	Muscovite
71	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Other indicator minerals Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Treatment (Springer)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
11	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGE	NIC GRAINS
2011	<u>Calcareous</u>
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
1	1
	<u>Siliceous</u>
Tr	Radiolarians
ے _	Diatoms
	Silicoflagellates
R	Sponge spicules
	Siliceous debris (undifferentiated)
The Administra	
	<u>Others</u>
Th	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)
1	



Leg	Site	Hole	Core	Section	Position (ci	n) Sm.Slide #
379	(0)	0	34	AA	134	SS22

Ot	server	PR	
		1	

LITHOLOGY:		(dominant)		(minor)
COMPOSITION: % Terrigenous	70	% Biogenic	30	(=100%)

	Silici	clastic texture	(%)	
% San	ıd	% Silt	% Clay	1
		20	90	( = 100

(	=	100%)	

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = <b>D</b> (dominant)
5

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
C	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	 ANIC/PLUTONIC GRAINS
	Euhedral crystals
Th	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	<u>Sheet Silicates</u>
	Biotite
77	Muscovite
TV	Chlorite
	- BA 11:
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
Tr	Fe-oxide / Fe-hydroxide

1	
Ab. Code	Component
BIOG	NIC GRAINS
Grand St.	<u>Calcareous</u>
1	Foraminifers
8	Nannofossils
1	Calcareous debris (undifferentiated)
er de la companya de	
	Siliceous
Th	Radiolarians
C	Diatoms
	Silicoflagellates
2	Sponge spicules
V and a second	Siliceous debris (undifferentiated)
and the second	dean
) 1	<u>Others</u>
Th	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Slide #
379	1233	Q	341	5A	18	5523

Observer	OK
······	

LITHOLOGY:		(dominant)	1	(minor)
COMPOSITION: % Terrigenous	70	% Biogenic	30	(=100%)

Siliciclastic texture (%)					
% Sand % Silt % Clay					
20 80					

Abundance Code	
≤ 1% = TR (trace)	
1% - 10% = R (rare)	
10% - 25% = C (common)	
25% - 50% = A (abundant)	
> 50% = <b>D</b> (dominant)	

	***************************************		
Ab. Code	Component		
SILICI	CLASTIC GRAINS/MINERALS		
	Framework minerals		
C	Quartz		
	Feldspar		
	K-feldspar		
	Plagioclase		
	Rock Fragments		
VOLC	ANIC /DILITORIC CDAINS		
VOLC	ANIC/PLUTONIC GRAINS  Euhedral crystals		
	Vitric grain (glass, pumice) Palagonite (altered glass)		
	Palagoriite (altereu glass)		
ACCES	SSORY/TRACE MINERALS		
	Sheet Silicates		
T	Biotite		
71	Muscovite		
ケア	Chlorite		
	Fe-Mg silicates		
Tr	Amphibole (hornblende)		
	Garnet		
	Pyroxene		
	Olivine		
	Other indicator minerals		
	Glauconite		
	Chert		
	Zircon		
	Apatite		
	Titanite (sphene)		
	Carbonate		
	Authigenic minerals		
	Barite		
Manganese Oxide			
	Zeolite		
	Opaque Minerals		
	Pyrite		
+In	Fe-oxide / Fe-hydroxide		
"	re-oxide / re-liyaroxide		
L	<u>                                     </u>		

Ab. Code	Component
BIOGE	NIC GRAINS
	Calcareous
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	The state of the s
	Siliceous
tr	Radiolarians
C	Diatoms
	Silicoflagellates
<u>e</u>	Sponge spicules
<u> </u>	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
ナト	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Slide #
379	120	Ø	3н	6A	10	SS24

Observer	DR

LITHOLOGY:		(dominant)	Ŷ	(mi)	nor)
COMPOSITION: % Terrigenous	92	% Biogenic	8	(=100%	<b>6</b> )

Silic	Siliciclastic texture (%)					
% Sand	% Sand % Silt % Clay					
	20	80	( = 100%)			

|--|

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
R	Quartz
46	Feldspar
,	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
Tr	Vitric grain (glass, pumice)
	Palagonite (altered glass)
۸۲۲	SSORY/TRACE MINERALS
ACCE	Sheet Silicates
4-1-	Biotite
Th	Muscovite
Th	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
·	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	- Car donate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
TV	Fe-oxide / Fe-hydroxide
. ,	

	<u> </u>
Ab. Code	Component
BIOGI	ENIC GRAINS
	Calcareous
# 1 1	Foraminifers
W	Nannofossils
į.	Calcareous debris (undifferentiated)
V I	
	Siliceous
	Radiolarians
p	Diatoms
1	Silicoflagellates
7-1	Sponge spicules
,	Siliceous debris (undifferentiated)
7 7 7 8	
) }	<u>Others</u>
Ĭ.	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)
}	

Leg	Site	Hole	Core	Section	Position (cr in core	n) Sm.Slide #
379	$\mathcal{Z}$	0	3	GA	55	5525

Observer	ma
Obscivei	# P
	1
	1

LITHOLOGY:		_(dominant)			(minor)
COMPOSITION: % Terrigenous	97	% Biogenic	3	(=	=100%)

Silic	ciclastic textur	e (%)	
% Sand	% Silt	% Clay	
	20	80	( = 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code   Component   SILICICLASTIC GRAINS/MINERALS     Framework minerals     Quartz     Feldspar     K-feldspar     Plagioclase     Rock Fragments     VOLCANIC/PLUTONIC GRAINS     Euhedral crystals     Vitric grain (glass, pumice)     Palagonite (altered glass)     ACCESSORY/TRACE MINERALS     Sheet Silicates     Biotite     Tr Muscovite     Chlorite     Fe-Mg silicates     Amphibole (hornblende)     Garnet     Pyroxene     Olivine     Other indicator minerals     Glauconite     Chert     Zircon     Apatite     Titanite (sphene)     Carbonate     Authigenic minerals     Barite     Manganese Oxide     Zeolite		
SILICICLASTIC GRAINS/MINERALS  Framework minerals  Quartz  Feldspar  K-feldspar  Plagioclase  Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  The Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide		
Framework minerals  Quartz  Feldspar  K-feldspar  Plagioclase  Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Fe-Mg silicates  The Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide		
P Quartz Feldspar     K-feldspar     Plagioclase     Rock Fragments  VOLCANIC/PLUTONIC GRAINS     Euhedral crystals     Vitric grain (glass, pumice)     Palagonite (altered glass)  ACCESSORY/TRACE MINERALS     Sheet Silicates     Biotite     Tr Muscovite     Chlorite  Fe-Mg silicates  Amphibole (hornblende)     Garnet     Pyroxene     Olivine  Other indicator minerals     Glauconite     Chert     Zircon     Apatite     Titanite (sphene)  Carbonate  Authigenic minerals     Barite     Manganese Oxide	SILICI	
Feldspar  K-feldspar  Plagioclase  Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide	win.	
K-feldspar Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite TMUSCOVITE Chlorite Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		
Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite TMUSCOVITE Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide	T	
Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Tr Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		
VOLCANIC/PLUTONIC GRAINS  Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  TMUSCOVITE  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide		
Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide		Rock Fragments
Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Tr Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide	VOLC	ANIC/PLUTONIC GRAINS
Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide		Euhedral crystals
ACCESSORY/TRACE MINERALS    Sheet Silicates     The Muscovite     Chlorite     Fe-Mg silicates     Amphibole (hornblende)     Garnet     Pyroxene     Olivine     Other indicator minerals     Glauconite     Chert     Zircon     Apatite     Titanite (sphene)     Carbonate     Authigenic minerals     Barite     Manganese Oxide		Vitric grain (glass, pumice)
Sheet Silicates  Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		Palagonite (altered glass)
Sheet Silicates  Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide	ACCES	SSORY/TRACE MINERALS
Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		
Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide	10	
Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide	7	
Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide	47	
Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		
Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		<u>Fe-Mg silicates</u>
Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide	- Hargan	Amphibole (hornblende)
Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		Garnet
Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		Pyroxene
Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		Olivine
Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		Other indicator minerals
Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		
Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		
Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide		
Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide		
Carbonate  Authigenic minerals  Barite  Manganese Oxide		
Authigenic minerals  Barite  Manganese Oxide		Trainic (sprietie)
Authigenic minerals  Barite  Manganese Oxide		Carbonate
Barite Manganese Oxide		
Manganese Oxide		
		Barite
Zeolite		Manganese Oxide
		Zeolite
Opaque Minerals		Opague Minerals
Pyrite Pyrite		
Fe-oxide / Fe-hydroxide	h	
re-oxide / re-nydroxide	<u> </u>	re-oxide / re-nydroxide

Ab. Code	Component
BIOGE	ENIC GRAINS
and the second	<u>Calcareous</u> .
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
and the first of the	
	<u>Siliceous</u>
	Radiolarians
1	Diatoms
	Silicoflagellates
	Sponge spicules
77	Siliceous debris (undifferentiated)
	<u>Others</u>
-th	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Slide #
379	1533	D	ЧH	١	27	5526

Ruthin Observer

LITHOLOGY:

moldy diatom core (dominant)

(minor)

COMPOSITION: % Terrigenous

25

% Biogenic

(=100%)

Silic	iclastic texture	(%)
% Sand	% Silt	% Clay
	40	60

( = 100%)

**Abundance Code** ≤ 1% = TR (trace) 1% - 10% = R (rare) 10% - 25% = C (common) 25% - 50% = A (abundant) > 50% = **D** (dominant)

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
ACCL	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Chlorice
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
·	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
-	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
·	
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component
BIOGE	NIC GRAINS
	Calcareous
	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	Siliceous
TR	Radiolarians
D	Diatoms
	Silicoflagellates
	Sponge spicules
2	Siliceous debris (undifferentiated)
	<u>Others</u>
1:	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

## Comments:

fairly intact, \$19. Frag ments

Leg	Site	Hole	Core	Section	Position (cr in core	n) Sm.Slide #
379	1533	D	44		100	5527

Observer Ruttie

LITHOLOGY:

silty

(dominant)

(minor)

COMPOSITION: % Terrigenous

92

% Biogenic 7

(=100%)

Silic	iclastic texture	(%)
% Sand	% Silt	% Clay
	30	70

( = 100%)

Abundance Code

≤ 1% = TR (trace)

1% - 10% = R (rare)

10% - 25% = C (common)

25% - 50% = A (abundant)

> 50% = D (dominant)

Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authirania minarala
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component	
BIOG	ENIC GRAINS	
	Calcareous	
	Foraminifers	
	Nannofossils	
	Calcareous debris (undifferentiated)	
1.		
	Siliceous	
	Radiolarians	
TR	Diatoms	
	Silicoflagellates	
and continued	Sponge spicules	
R	Siliceous debris (undifferentiated) 🗸	-5-10%
\$ -	<u>Others</u>	
	Organic Debris	
	Plant Debris	
	Fish Remains (teeth, bones, scales)	

Leg	Site	Hole	Core	Section	Position (c in core	m) Sm.Slide #
379	1533	D	4+	2	66	55 28

Observer Ruthin

LITHOLOGY: distrom-bearing silty claridominant)

(minor)

COMPOSITION: % Terrigenous

90

% Biogenic

10

(=100%)

Silici	clastic texture	e (%)
% Sand	% Silt	% Clay
	30	70

( = 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

<b>L</b>	
Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Onaque Minerals
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide
L	

Component
NIC GRAINS
<u>Calcareous</u>
Foraminifers
Nannofossils
Calcareous debris (undifferentiated)
<u>Siliceous</u>
Radiolarians
Diatoms へしっし
Silicoflagellates
Sponge spicules
Siliceous debris (undifferentiated)
4 200
<u>Others</u>
Organic Debris
Plant Debris
Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (ci	m) Sm.Slide #
379	1533	D	4#	4	100	5529

Observer Pethic

LITHOLOGY: Sitty clay

\_\_\_\_(dominant)

(minor)

COMPOSITION: % Terrigenous

% Biogenic 🦅

(=100%)

Silic	iclastic texture	e (%)
% Sand	% Silt	% Clay
	20	80

( = 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
SILIC	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC /DI LITONIC CDAING
VOLC	ANIC/PLUTONIC GRAINS  Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
	ralagorite (attered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
*****	Biotite
	Muscovite
****	Chlorite
	<u>Fe-Mg silicates</u>
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Other indicator minerals
	Glauconite Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
***************************************	Fe-oxide / Fe-hydroxide
	- Smart to Hydroxide

Ab. Code	Component
BIOGI	ENIC GRAINS
* 1	Calcareous
and the second	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
i de la companya de l	
	Siliceous
	Radiolarians
TR	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
100	Organic Debris
<u> </u>	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cm) in core Sm.Slide	
379	1533	$\mathcal{D}$	41+	6	80	5530

Observer Rutue

LITHOLOGY:	silty	day	(dominant)	(minor)
COMPOSITION	: % Terrigenous	100	% Biogenic	(=100%)

Silic	iclastic texture	e (%)
% Sand	% Silt	% Clay
	25	75

( = 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

Ab. Code	Component
	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
A CCE	SCORY /TD A ST A MINER ALS
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
***	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite
WC	Manganese Oxide $\sim /_{\mathcal{O}}$ °( $_{\mathfrak{h}}$
170	Zeolite
	Zeonte
	Opague Minerale
10 1	Opaque Minerals
19 Ses	
	Fe-oxide / Fe-hydroxide

	<u> </u>
Ab. Code	Component
BIOG	ENIC GRAINS
	Calcareous
	Foraminifers
	Nannofossils
To a Committee of the C	Calcareous debris (undifferentiated)
	Siliceous
n to grand	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	<u>Others</u>
	Organic Debris
<u> </u>	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (c in core	m) Sm.Slide #	Observe	er ()
379	1233	р	5	[	85	5531		
LITHOL	•	l: % Ter	<u>(Ju</u>	1	(domi	nant) <u>bio</u> Biogenic _	sil-beari 18	(=100%)
	Silio	ciclastic 1	texture (	%)				Abundance Code ≤ 1% = TR (trace)
% S	and	% S	ilt	% Clay 9 (	( = 100%	)		1% - 10% = R (rare) 10% - 25% = C (common) 25% - 50% = A (abundant) > 50% = D (dominant)

	7 / 5 (-20070)
Ab. Code	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VO! C	ANIC (DI LITONIC CD ALAIG
VOLU	ANIC/PLUTONIC GRAINS
110	Euhedral crystals
TR	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Carbonate
	Authigenic minerals
	Barite
D_	Manganese Oxide
'	Zeolite
	Opaque Minerals
	Pyrite Pyrite
*	Fe-oxide / Fe-hydroxide
	re-oxide / re-riyuroxide

Ab. Code	Component
BIOGI	ENIC GRAINS
	Calcareous
A second	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
	Siliceous
a su constituire de la constit	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
ρ	Siliceous debris (undifferentiated)
<u> </u>	<u>Others</u>
	Organic Debris
1	Plant Debris
	Fish Remains (teeth, bones, scales)
3:	

							1		
Leg	Site	Hole	Core	Section	Position (cm)			Observer	/i
	l one		0010	Section	in core Sm.	lide#			
70	. ~7	-	I				der transport		
3/7	1533	V	5	1	73 5	32	100		
•				r					
LITHOL	OGY:		(	lary	(dominant)		(	<u>)                                    </u>	(minor)
COMP	OSITION	N: % Ter		11		nic (	ر		(=100%)
				<u> </u>					
	Sili	ciclastic	texture (	%)					Abundance Code ≤ 1% = TR (trace)
% 5	Sand	% 5	ilt	% Clay			1		1% - 10% = R (rare)
		16		85	( = 100%)				10% - 25% = C (common) 25% - 50% = A (abundant)
<u> </u>		1	>	0 \$					> 50% = <b>D</b> (dominant)
Ab. Co	de Co	omponer	it			Ab. Co	de	Componen	t
S		STIC GRA				BI	OGI	ENIC GRAINS	
	Fr	ameworl	k mineral	S			1	Calcareous	
		Quartz					1	Foramin	ifers
		Feldspa K-fe	ldspar	· · · · · · · · · · · · · · · · · · ·			1	Nannofo	ossils
			ioclase				41	Calcared	ous debris (undifferentiated)
***************************************			agments					:	
								<u>Siliceous</u>	
		C/PLUTO		INS				Radiola	rians
		uhedral c tric grain		umical			900000	Diatom:	5
***************************************		alagonite					Y.	Silicofla	gellates
							1		spicules
A	7	RY/TRAC	*****	ALS				Siliceou	s debris (undifferentiated)
		neet Silica	ites				ļ_		
		otite luscovite					1	<u>Others</u>	
		nlorite				Organic Debris			
							1	Plant De	
	Fe	-Mg silic				ļ		Fish Ker	mains (teeth, bones, scales)
			ole (horr	nblende)		L	-		
		Garnet Pyroxer	10			Comme	ents	<b>:</b>	
		Olivine	10				-		
							o programme of the second		
	Other indicator minerals						1		\$
	Glauconite								
	Chert Zircon								·
	Apatite								
	Titanite (sphene)								
	Carbonate						The state of the s		
Authigenic minerals									
		Barite							
R	>	Mangar	nese Oxid	e					
		Zeolite							
ļ									
	의	paque Mi	nerals						de la companya de la

Pyrite

Fe-oxide / Fe-hydroxide

Leg	Site	Hole	Core	Section	Position in core	(cm) Sm.Slide #	Observer
<del>13</del> 99	633	D	5H	2	71	453.3	

LITHOLOGY: (dominant) hinsilicous (minor)

COMPOSITION: % Terrigenous 75 % Biogenic (=100%)

Silic	iclastic textur	e (%)	
% Sand	% Silt	% Clay	1
	17	83	( = 100%)

Abundance Code	
<b>≤1% = TR</b> (trace)	
1% - 10% = R (rare)	
10% - 25% = C (common)	
25% - 50% = <b>A</b> (abundant)	
> 50% = D (dominant)	

	Component
SILICI	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	L ANIC/PLUTONIC GRAINS
***************************************	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
•	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
· · · · · · · · · · · · · · · · · · ·	Barite
12	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component	
BIOGE	NIC GRAINS	
	<u>Calcareous</u>	
	Foraminifers	
	Nannofossils	
	Calcareous de	bris (undifferentiated)
	open o to any	
	<u>Siliceous</u>	
	Radiolarians	
	Diatoms	
	Silicoflagellat	es
71.000	Sponge spicul	es
P	Siliceous debi	ris (undifferentiated)
	Orași de la compania del la compania de la compania	
	<u>Others</u>	
,	Organic Debri	is
C	Plant Debris	
	Fish Remains	(teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (cr	n)		Ok	server		
200	Jite	11010	Corc	Jection	in core	Sm.Slide	e#	L			
_	. 1		6.11								
399	1533	$\mathcal{Q}$	5H	12	127	5530	4.				
		<u> </u>					7				
ITHOL	OGY:		de	N	(domin	nant)				(minor)	
				(), 3				-		The state of the s	
COMPO	DSITION	N: % Ter	rigenous	100	<u>)</u> % E	Biogenic	$\underline{U}$		<del>-</del> .	(=100%)	
	C.1.			0.41						Abundance Code	
	5111	ciciastic	texture (							≤ 1% = TR (trace)	
% S	and	% S	Silt	% Clay			100			1%- 10% = R (rare) 10% - 25% = C (common)	
		1	0	40	( = 100%)	1				25% - 50% = A (abundant)	
	***	1/			!		Ar Contract			> 50% = <b>D</b> (dominant)	
Ab. Cod	de C	omponer	nt.			7	Ab. Code	e (	Componen	t	
SI			AINS/MIR				BIO	GEN	IC GRAINS		
	Fi		k mineral	S			2	9	Calcareous		
		Quartz					West of the Control		Foramin	ifers	
		Feldspa K-fo	ldspar						Nannofo	ssils	
			ioclase				Codpering		Calcareo	us debris (undifferentiated)	
			agments								
								. 5	iliceous		
V			NIC GRA	INS		[	5 to 0 to		Radiolarians		
		uhedral c		umainal			, i		Diatoms		
			(glass, p (altered			<del> </del> [	7		Silicofla	gellates	
	-   '	alagorite	(aitereu	giassj			7.0		Sponge	spicules	
A			E MINER	ALS				٠	Siliceou	s debris (undifferentiated)	
		<u>neet Silica</u>	ates	···			8				
		otite					ž.	2	<u>Others</u>		
		luscovite nlorite					Organic Debris				
		lionte				_		.	Plant De		
	Fe	e-Mg silic	ates .						Fish Ren	nains (teeth, bones, scales)	
			ole (horr	nblende)					i E		
		Garnet				Co	mmen	ts:			
·		Pyroxer	ne								
		Olivine		·			1911				
	0	ther indic	ator min	erals			d) - Calor	7.0	A S	School Company	
		auconite			****			1			
	. Cl	nert								*	
		ircon									
	Apatite Titanite (sphene)										
	+	ıtanıte (s	pnene)							Account March Color	
	Ca	rbonate								) 1 3	
	۸.	ıthigonic	minerals	71000			den je nike mjedj				
	A	Barite	mmerals		1						
1/2	7		nese Oxid	le		—					
	<u> </u>	Zeolite	.coc Oniu								
										Topological and the second sec	
	O	paque Mi	inerals								
		Pyrite									

Fe-oxide / Fe-hydroxide

Leg	Site	Hole	Core	Section	Position in core	(cm) Sm.Slide #	Observer	
23 <sup>2</sup> 9	1533	ワ	5H	3	139	5535		
LITHOL	.OGY:			clay	(dor	ninant)		(minor)
COMPOSITION: % Terrigenous					9	6 Biogenic	<del>-</del> <del>-</del>	(=100%)
				( '				Abundance Code

Silic	iclastic texture	2 (%)	
% Sand	% Silt	% Clay	
	15	24	( = 100%)

	l l	- Nationalice Code
		≤ 1% = TR (trace)
		1% - 10% = R (rare)
		10% - 25% = C (common)
į.		25% - 50% = A (abundant)
		> 50% = <b>D</b> (dominant)
Ab. Code	Component	

	<i>U</i> +
Ab. Code	Component
SILICI	ICLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
&	Vitric grain (glass, pumice)
	Palagonite (altered glass)
0.005	COOPY /TD A CE A MALED A LO
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
*****	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Authigenic minerals
	Barite Barite
b	
<u> </u>	Manganese Oxide
	Zeolite
	Oncore Misses Is
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

\$	
Ab. Code	Component
BIOG	ENIC GRAINS
	Calcareous
* * * * * * * * * * * * * * * * * * *	Foraminifers
	Nannofossils
	Calcareous debris (undifferentiated)
, and a	
	Siliceous
1	Radiolarians
	Diatoms
	Silicoflagellates
Į.	Sponge spicules
n_	Siliceous debris (undifferentiated)
100	
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (ci	m) Sm.Slide #	
399	1533	D	5H	4	58	5538	

Observer Pertue

LITHOLOGY: biosil-bearing clay (dominant) (minor)

COMPOSITION: % Terrigenous

90

% Biogenic ( )

(=100%)

Siliciclastic texture (%)					
% Sand	% Silt	% Clay			
	15	85			

( = 100%)

Abundance Code					
≤ 1% = TR (trace)					
1% - 10% = R (rare)					
10% - 25% = C (common)					
25% - 50% = <b>A</b> (abundant)					
> 50% = D (dominant)					

Ab. Code	Component
	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLCA	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCES	SORY/TRACE MINERALS
ACCES	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	CHOILE
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonata
	Carbonate
	Authigenic minerals
	Barite
	Manganese Oxide
	Zeolite
	LCOIIC
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

Ab. Code	Component	
BIOG	ENIC GRAINS	
	Calcareous	
Element serber (	Foraminifers	
). }	Nannofossils	
	Calcareous debris (undifferentiated)	
S. reign		
Š	Siliceous	
	Radiolarians	
	Diatoms	
	Silicoflagellates	
	Sponge spicules	,
R	Siliceous debris (undifferentiated)	0%?
	<u>Others</u>	
	Organic Debris	
	Plant Debris	
	Fish Remains (teeth, bones, scales)	
1		

Comments:

"proto" green unit? biosiliceous ground mass, but no recognizable fossils ...

Leg	Site	Hole	Core	Section	Position (cm in core	n) Sm.Slic	le#		Observer	
378	1535	P	5H	ζ	30	55 3	9			
LITHOL	-	l: % Ter	C (A rigenous	0	(domin % B	ant) - Biogenio		٢		(minor) (=100%)
% S	Silid	ciclastic 1	texture (	%) % Clay	( = 100%)					Abundance Code ≤ 1% = TR (trace) 1% - 10% = R (rare) 10% - 25% = C (common) 25% - 50% = A (abundant) > 50% = D (dominant)
Ab. Co		mponen					Ab. Co	ode	Component	
S			IINS/MIN		***	[	В	IOGI	ENIC GRAINS	
	Fr		c mineral	S			200		<u>Calcareous</u>	
	Quartz Feldspar						40.00		Foraminif	ers
		<u>-</u>			***************************************		-		Nannofos	sīls
	K-feldspar						1		6.1	1 1 1 1 1 1 1 1 1

SILICICASTIC GRAINS/MINERALS  Framework minerals  Quartz  Feldspar  K-feldspar  Plagioclase  Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite  Fe-oxide / Fe-hydroxide	Ab. Code	Component
Framework minerals Quartz Feldspar K-feldspar Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Quartz Feldspar K-feldspar Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Feldspar  K-feldspar  Plagioclase  Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
K-feldspar Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Plagioclase Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Rock Fragments  VOLCANIC/PLUTONIC GRAINS  Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
VOLCANIC/PLUTONIC GRAINS  Euhedral crystals  Vitric grain (glass, pumice)  Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Euhedral crystals Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Vitric grain (glass, pumice) Palagonite (altered glass)  ACCESSORY/TRACE MINERALS Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite	VOLC	
Palagonite (altered glass)  ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite	***************************************	
ACCESSORY/TRACE MINERALS  Sheet Silicates  Biotite  Muscovite  Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene  Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite		Palagonite (altered glass)
Sheet Silicates Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite	۸۲۲	SCORY/TRACE MAINIFRALC
Biotite Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite	ACCE	
Muscovite Chlorite  Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Chlorite  Fe-Mg silicates  Amphibole (hornblende)  Garnet  Pyroxene Olivine  Other indicator minerals  Glauconite  Chert  Zircon  Apatite  Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Fe-Mg silicates Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Cilionite
Amphibole (hornblende) Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Fe-Mg silicates
Garnet Pyroxene Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Amphibole (hornblende)
Olivine  Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Other indicator minerals Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Pyroxene
Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		Olivine
Glauconite Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Chert Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Zircon Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Apatite Titanite (sphene)  Carbonate  Authigenic minerals Barite Manganese Oxide Zeolite  Opaque Minerals Pyrite		
Titanite (sphene)  Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Carbonate  Authigenic minerals  Barite  Manganese Oxide  Zeolite  Opaque Minerals  Pyrite		
Authigenic minerals  Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite		Titanite (sphene)
Authigenic minerals  Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite		Carbonate
Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite		Carbonate
Barite  Manganese Oxide Zeolite  Opaque Minerals Pyrite		Authigenic minerals
Manganese Oxide Zeolite  Opaque Minerals Pyrite	7	
Zeolite  Opaque Minerals  Pyrite	C/	
Opaque Minerals Pyrite		
Pyrite		
Pyrite		Opaque Minerals
, a shady re nyanoxide		
		, a shad fire flydroxide

Ab. Code	Component
BIOG	ENIC GRAINS
Policia de la companya della companya della companya de la companya de la companya della company	Calcareous
-	Foraminifers
1	Nannofossils
A December 1	Calcareous debris (undifferentiated)
	Siliceous
	Radiolarians
100	Diatoms
The control of the co	Silicoflagellates
American	Sponge spicules
K	Siliceous debris (undifferentiated) ~ 5 % 7
	<u>Others</u>
	Organic Debris
	Plant Debris
	Fish Remains (teeth, bones, scales)
1	

							Control of the Contro			
Leg	Site	Hole	Core	Section	Position (cr	n) Sm.Sl	ide#		Observer	
349	K133	D	5H	6	65	55	36			
LITHOL	.OGY:		cha	1	(domin	iant)				(minor)
COMP	MOITIZC	l: % Ter	rigenous	99	% E	Biogen	ic	1	<u> </u>	(=100%)
% S	Sili Sand	ciclastic t		%) % Clay	( = 100%)					Abundance Code ≤1% = TR (trace) 1% - 10% = R (rare) 10% - 25% = C (common) 25% - 50% = A (abundant) >50% = D (dominant)
Ab. Co		omponen					Ab. Co	de	Component	
S		STIC GRA					Ble	OGI	NIC GRAINS	
	<u> Fr</u>	amework	mineral	s					Calcareous	
		Quartz							Foramini	fers
		Feldspa			-				Nannofo	
			ldspar ioclase							us debris (undifferentiated)
			agments		·				Galcarco	as acons (unumerendated)
ļ		HOCKTI	aginents						Siliceous	
V	OLCANI	C/PLUTO	NIC GRA	INS					Radiolar	anc
^1		ihedral cr							Diatoms	alis
	Vi	tric grain	(glass, pu	ımice)			- 6			allatas
	Pa	lagonite	(altered <sub>(</sub>	glass)			1		Silicoflag	
Δ	CCESSO	RY/TRAC	FMINED	A I C			7	<u> </u>	Sponge s	<u></u>
		eet Silica		HLO		-	11	_	- Sinceous	debris (undifferentiated)
		otite					3		Others	
	М	uscovite						_		Na huis
	Ch	lorite							Organic I	
							-			
	<u> Fe</u>	-Mg silica		Idea de N			-		rish kem	ains (teeth, bones, scales)
		Garnet	ole (horn	blende)						
	_	Pyroxen	Θ				Comme	nts	:	
		Olivine								To a continue with
		her indica	ator mine	eral <u>s</u>						
		auconite					. Te chadre			f
		ert							- //	
***************************************		rcon								> Lili a
	<del></del>	patite	1			_	Yali u		11 11	7 Cili a
	1 [1]	tanite (sp	nene)			ì			<b>u</b> //	

Carbonate

Zeolite

Opaque Minerals Pyrite

Authigenic minerals Barite

Manganese Oxide

Fe-oxide / Fe-hydroxide

debris

Leg	Site	Hole	Core	Section	Position ( in core	cm) Sm.Slide #
479	1533	D	511	6	65	5540

Observer Rathie

LITHOLOGY: 5: Hu	clin	(dominant)		(minor)
COMPOSITION: % Terrige	nous 1.33	% Biogenic	7	(=100%)

Silic			
% Sand	% Silt	% Clay	
	30	70	( = 100%)

Abundance Code
≤ 1% = TR (trace)
1% - 10% = R (rare)
10% - 25% = C (common)
25% - 50% = A (abundant)
> 50% = D (dominant)

	Component
SILIC	ICLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOL	L CANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates Biotite
	Muscovite Chlorite
	Chlorite
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
	Titanite (sphene)
	Carbonate
	Carponate
	Authigenic minerals
	Barite
-/R_	Manganese Oxide
	Zeolite
	Onague Minerals
	Opaque Minerals  Purito
	Pyrite
	Fe-oxide / Fe-hydroxide

Component
NIC GRAINS
Calcareous
Foraminifers
Nannofossils
Calcareous debris (undifferentiated)
Siliceous
Radiolarians
Diatoms
Silicoflagellates
Sponge spicules
Siliceous debris (undifferentiated)
<u>Others</u>
Organic Debris
Plant Debris
Fish Remains (teeth, bones, scales)

Leg	Site	Hole	Core	Section	Position (c in core	m) Sm.Slide #
579	1533	0	5H	6	139	5541

Observer Ruthi l

LITHOLOGY: _	clus	(dominant)		(minor)
COMPOSITION	: % Terrigenous	√o∂ % Biogenic	0	(=100%)

Silic	iclastic texture	2 (%)	
% Sand	% Silt	% Clay	j
	5	95	( = 100%)

Abundance Code

≤ 1% = TR (trace)

1% - 10% = R (rare)

10% - 25% = C (common)

25% - 50% = A (abundant)

> 50% = D (dominant)

Ab. Code	Component
SILIC	CLASTIC GRAINS/MINERALS
	Framework minerals
	Quartz
_,	Feldspar
	K-feldspar
	Plagioclase
	Rock Fragments
VOLC	ANIC/PLUTONIC GRAINS
	Euhedral crystals
	Vitric grain (glass, pumice)
	Palagonite (altered glass)
1.000	
ACCE	SSORY/TRACE MINERALS
	Sheet Silicates
	Biotite
	Muscovite
	Chlorite
	Fo Mg cilicatos
	Fe-Mg silicates
	Amphibole (hornblende)
	Garnet
	Pyroxene Olivine
	Olivine
	Other indicator minerals
	Glauconite
	Chert
	Zircon
	Apatite
· · · · · · · · · · · · · · · · · · ·	Titanite (sphene)
	Treatment (optioner)
	Carbonate
	<u>Authigenic minerals</u>
	Barite
1	Manganese Oxide
	Zeolite
	Opaque Minerals
	Pyrite
	Fe-oxide / Fe-hydroxide

\$ a	
Ab. Code	Component
BIOGI	ENIC GRAINS
	Calcareous
Control of the Contro	Foraminifers
100	Nannofossils
And the second	Calcareous debris (undifferentiated)
1	
	Siliceous
200 mg	Radiolarians
	Diatoms
	Silicoflagellates
7	Sponge spicules
-	Siliceous debris (undifferentiated)
1	
200	<u>Others</u>
2000	Organic Debris
	Plant Debris
***************************************	Fish Remains (teeth, bones, scales)
100	

Leg	Site	Hole	Core	Section	Position (ci	
379	1533	0	111	3W	105	5547

100	Observer	CDH
	P.	
8 /		

Abundance Code

LITHOLOGY:	Sani	λ	(dominant)		(minor)
COMPOSITION	I: % Terrigenous	98	% Biogenic	7	(=100%)

Siliciclastic texture (%)			
% Sand	% Silt	% Clay	1
60	15	25	] ;

(	=	100%)
١	_	10070

		≤ 1% = TR (trace) 1% - 10% = R (rare) 10% - 25% = C (common) 25% - 50% = A (abundant) > 50% = D (dominant)
Ab. Code	Component	
BIOGE	NIC GRAINS	

Ab. Code   Component						
Framework minerals Quartz Feldspar K-feldspar						
Quartz Feldspar K-feldspar						
Feldspar K-feldspar						
K-feldspar						
l Plagioclase						
Rock Fragments						
VOLCANIC/PLUTONIC GRAINS						
Euhedral crystals						
Vitric grain (glass, pumice)						
Palagonite (altered glass)						
Palagorite (attered glass)						
ACCESSORY/TRACE MINERALS						
Sheet Silicates						
Biotite						
Muscovite						
(Chlorite						
<u>Fe-Mg silicates</u>						
Amphibole (hornblende)						
Garnet						
Pyroxene						
Olivine						
Other indicator minerals						
Glauconite						
Chert						
Zircon						
Apatite						
Titanite (sphene)	-					
Trianite (spriene)						
Carbonate						
Authigenic minerals						
Barite						
Manganese Oxide	Manganese Oxide					
Zeolite						
Opaque Minerals						
Pyrite						
Fe-oxide / Fe-hydroxide						

Ab. Code	Component					
BIOGI	ENIC GRAINS					
Accessed	Calcareous					
Manufacture and the state of th	Foraminifers					
Armithus of	Nannofossils					
o de la companya de l	Calcareous debris (undifferentiated)					
ordinaming and						
Commence of the Commence of th	Siliceous					
	Radiolarians					
R	Diatoms					
de consession de la con	Silicoflagellates					
Monday	Sponge spicules					
111	Siliceous debris (undifferentiated)					
deservation of						
- Later - Late	<u>Others</u>					
to account	Organic Debris					
Mercanical Assessment	Plant Debris					
Transfer out	Fish Remains (teeth, bones, scales)					
#22277-16						

								ethystates west		
Leg	Site	Hole	Core	Section	Position (c in core	m) Sm.Sli	de#		Observer	CD
37ª	K <sup>2,3</sup>	Ø	5H	6	107	453	37			1
ITHOLO	DGY:		clu	N/	(domi	nant)	2005	ili	(eost)	le (minor)
:ОМРО	SITION	: % Ter	rigenous	0 3	<u>()</u> %	Biogen	ic <u> </u>	0		(=100%)
	Silio	ciclastic t	texture (	%)	]			erovariation rand		Abundance Code ≤ 1% = TR (trace)
% Sa	and	% S	ilt F	% Clay	( = 100%	5)		au de l'opposit all ou cambrai de		1% - 10% = R (rare) 10% - 25% = C (common) 25% - 50% = A (abundant) > 50% = D (dominant)
Ab. Code   Component							Ab. Co	ode	Component	
SILICICLASTIC GRAINS/MINERALS						BIOGENIC GRAINS				
Framework minerals							2	Calcareous		
Quartz							1	Foraminif	ore	
Feldspar							-	Nannofossils		
K-feldspar							1			
Plagioclase							1.	Calcareou	is debris (undifferentiated)	
		Rock Fra	agments					11		
VC	N CANII	C/BLUTO	NIC GRAI	NC				1.	<u>Siliceous</u>	
		hedral cr		CNI					Radiolari	ans
			(glass, pu	ımical				The state of the s	Diatoms	
								1:	Silicoflag	ellates
Palagonite (altered glass)								Sponge s	picules	
AC	CESSO	RY/TRAC	E MINER	ALS			7	12	Siliceous	debris (undifferentiated)
	<u>Sh</u>	eet Silica	<u>tes</u>						n V	
Biotite						·		Others		
Muscovite								Organic D	)ebris	
Chlorite								Plant Deb		
Fe-Mg silicates							1.		ains (teeth, bones, scales)	
	1.6		ole (horn	blanda)				) 	, ion rein	and (ceeds, bories, scales)
		Garnet	ne (non	pieriue)						
	_	Pyroxen	P			<u> </u>	Comm	ents	<b>;</b>	
		Olivine		<del></del>	······································					
		3.171110						1		

Other indicator minerals

Glauconite Chert Zircon Apatite

Carbonate

Zeolite

Opaque Minerals Pyrite

TIL

Titanite (sphene)

Authigenic minerals
Barite

Manganese Oxide

Fe-oxide / Fe-hydroxide

bio Liliceous debois

sucommon in

ground mass.