

Ditch samples - described by R. M. Phillips, 7-6-45

110	<u>Basalt Pebbles</u> , 75%, hard, dense, black, water worn 1/2 - 3/4" <u>Calcareous Sandstone</u> , 20%, fine grained, light grey, hard, dense, quartzose, with abundant fine grains of basalt? locally argillaceous with greenish cast <u>Sandy Siltstone</u> , 5%, ran to greenish gray, hard, calcareous, micaceous, glauconite, sporbitic?, looks ashy. No forams noted. <u>Fossil fragments</u> , trace, tan to white
115	Same as above
130	<u>Calcareous Sandstone</u> , 70%, light grey, fine, hard, dense, tight, micaceous. <u>Loose sand</u> , 15%, as last described White tuff. 10%. scattered micaceous and tiny glass shards.
3650	Ditto, common brown fragments are greenish grey and bentonitic when broken open. Others are grey and tuffaceous inside
3665	Ditto, two large fragments of ashy siltstone, tan, fossil fragments, micaceous, clayey
3680	Ditto
3695	Ditto
3710	<u>Volcanic breccia</u> , 90% <u>Claystone &amp; Siltstone</u> , 10%
3725) 3740) 3755)	Ditto
3770	Ditto - poor sample
3785	Ditto - less claystone
3800	Ditto - poor sample
3804-3816	Cored interval
3831	<u>Volcanic breccia</u> , greenish grey, euhedral
3846	" " , phenocrystals and grits
3861	<u>Volcanic breccia</u> , dark grey tuff fragments and euhedral crystals in a green matrix that dries dark greenish grey
3876	Ditto, plus trace white ashy material in spots and streaks
3891	Ditto
3906	Ditto
3921	Ditto
3936	Ditto - scat. to common mica and occasional quartz grains
3951	Ditto - plus trace tough ashy micaceous siltstone
3970	Ditto - slight increase siltstone
3991	Ditto
4006	Ditto
4021	<u>Volcanic breccia</u> , 85%, ditto <u>Siltstone</u> , 10%, tan, micaceous, ashy, ditto above <u>Sandstone</u> , 5%, hard, dull grey, tight, quartzose, in clayey(ashy?) matrix, scat. micaceous
4036	<u>Volcanic breccia</u> , as above with common white ashy material and secondary calcite
4051	<u>Volcanic breccia</u> , as above with common white ashy material and secondary calcite
4065	Ditto
4080	Ditto
4095	Ditto
4110	Ditto
4136	<u>Volcanic breccia</u> , 90%, as above <u>Siltstone</u> , 10%, tan, fine sandy, micaceous, ashy appearing carbonaceous thin bedded, fossil fragments
4150	Ditto - poor sample
4165	<u>Volcanic breccia</u> , as above
4180	Ditto
4195	Ditto with trace silty brown claystone
4210	Ditto with trace silty brown claystone and tough micaceous siltstone
4225	Ditto - poor sample
4240	Ditto - " "
4255	<u>Volcanic breccia</u> , 50%, as above <u>Sand</u> , 50%, fine to medium, quartzose, loose. (NOTE: round trip @ 4241- no drilling break)
4270	<u>Volcanic breccia</u> , 90%, as above <u>Siltstone</u> , 10%, tan, micaceous, fine sandy
4285	<u>Volcanic breccia</u> , as above
4300	<u>Volcanic breccia</u> , 85%, as above <u>Siltstone</u> , 15%, tan, fine sandy, micaceous, one pelecypod noted
4306	<u>Volcanic breccia</u> , as above
4320	Ditto, with trace tan siltstone
4336-4343	cored interval
4365	<u>Volcanic breccia</u> , ditto
4380	Ditto with common white crystalline material
4388	Ditto, with trace tan micaceous siltstone
4400	Ditto
4415	Ditto, poor sample
4430	Ditto, trace tan silty claystone
4445	<u>Volcanic breccia</u> , 50%, as above <u>Siltstone and claystone</u> , 50%, tan to brown, firm, apparently thin bedded micaceous scattered forams and fossil fragments (NOTE: sample taken after round trip at 4445)
4460	Base volcanics @ 4460 (d) <u>Volcanic breccia</u> , 60%, as above <u>Siltstone</u> , 25%, grey, clayey, micaceous, compact, scattered fish remains and forams? <u>Sandstone</u> , 15%, dark grey, made up of volcanic debris in clayey matrix, medium to coarse, looks tight
4475	Ditto - poor sample - still contains considerable volcanic sand
4490	Ditto, last above. Top good Siltstone @ 4500 (d)
4505	<u>Siltstone</u> , 75%, brown to grey, firm to hard, micaceous, locally fine sandy, generally carbonaceous, scattered fish remains and rare tiny forams? (may be sand grains) <u>Volcanic breccia &amp; volcanic sand</u> , 25%, as above <u>Trace Sandstone</u> white, quartzose, micaceous, looks tight, thin flakes
4520	Ditto - scattered calcite forams
4540-4550	cored interval
4565	Ditto
4580	<u>Siltstone</u> , 50%, ditto <u>Sand</u> , 40%, fine to medium, very silty, micaceous, looks tight where unbroken, dirty, ill sorted, greyish white. (Note: no drilling break) <u>Volcanic breccia</u> , 10%, as above
4595	<u>Volcanic breccia</u> , 75%, as above <u>Siltstone</u> , 25%, as above
4610	<u>Volcanic breccia</u> , 50%, as above <u>Siltstone</u> , 50%, as above
4625	<u>Sand</u> , 75%, fine, very silty, micaceous, loose, carbonaceous <u>Volcanic breccia</u> , 15%, as above <u>Siltstone</u> , 10%, as above. (Note: no drilling break)
4640	Poor sample, drilling mud with scattered white ash and siltstone fragments
4655	<u>Siltstone</u> , 35%, tan to grey, as above <u>Sand</u> , 35%, fine, white, micaceous, quartzose <u>Volcanic breccia</u> , 30% (NOTE: Round trip at 4646)
4670	Ditto, poor sample, sands apparently thin bedded
4680	<u>Volcanic breccia</u> , 75%, as above <u>Siltstone</u> , 20%, as above <u>Sand</u> , 5%, as above
4685	Ditto - poor sample
4700	Ditto
4715	Ditto
4730	Ditto
4745	Ditto
4755	<u>Siltstone</u> , 40%, brown fine sandy micaceous <u>Claystone</u> , 40%, grey silty micromicaceous <u>Volcanic</u> , 20%, brown as above
4800	Ditch samples - described by L.J.Regan, Jr. <u>Tuffaceous Siltstone</u> , 50%, as core above but siltier <u>Volcanic Breccia</u> , 30% <u>Siltstone</u> , 20%, grey to brown
4815	Ditto
4830	Ditto - poor sample
4845	<u>Volcanic Breccia</u> , 30%, as above <u>Siltstone</u> , 50%, light to medium grey, hard micromicaceous sandy tuffaceous <u>Fine silty sand</u> , hard with pyroxene crystals, 20%
4915	<u>Volcanic Breccia</u> , 60%, as in core above <u>Tuff and Tuffaceous Siltstone</u> , 30%, medium grey to greenish, platy pyroxene fragments <u>Volcanic sandstone</u> , 10%, medium fine dark grey, volcanic debris and pyroxene euhedra. Fragments calcite common, some loose sand, probably from drilling mud
4930	ditto
4945	ditto
4960	ditto
4975	Ditto Ditch samples described by L.J.Regan, Jr.
4990	Ditto
5005	Mainly drilling mud, Poor Sample. Mainly <u>Volcanic Breccia</u> as above. Some hard fine Sandstone composed of volcanic debris with pyroxene euhedra
5020	Ditto. Common snow white ashy material. May be zeolites
5035	<u>Volcanic breccia</u> , 60%, as above <u>Fine Silty Sand</u> composed of volcanic debris, 40% <u>Calcite fragments</u>
5050	Ditto
5065	Ditto
5080	Ditto
5095	Ditto
5110 (drilling break)	As above, but abundant soft white sand and brown soft fine sandy silt
(5156-5275	dilled interval)
5171	<u>Clayey Siltstone</u> , 80%, brownish grey micromicaceous, as in core above <u>Volcanic breccia</u> , 20%, Trace light grey hard calcareous sandstone
5186	ditto
5200	ditto
5215	<u>Siltstone</u> , 60%, as above <u>Sandstone</u> , 30%, light grey to white, hard calcareous medium fine poorly sorted <u>Volcanic breccia</u> , 10%
5230	<u>Siltstone</u> , 80%, as above <u>Volcanic breccia</u> , 15% <u>Sandstone</u> , 5%, as above
5245	<u>Siltstone</u> , 80%, as above <u>Volcanic breccia</u> , 20%
5260	Ditto? poor sample
5275	<u>Volcanic breccia</u> , 50%, as in core below <u>Siltstone</u> , 50%, as above
	Described by R. M. Phillips
5315	<u>Volcanic Breccia</u> , 75%, as above <u>Siltstone</u> , 15%, tan to brown, micaceous, clayey, apparently thin bedded <u>Sandstone</u> , 10%, fine, silty, light grey, calcareous
5330	<u>Volcanic Breccia</u> , as above
5345	<u>Volcanic Breccia</u> , ditto but with trace sandstone and siltstone
5360	Ditto with abundant white zeolites and calcite
5397	<u>Volcanic Breccia</u> , 80%, as above <u>Siltstone</u> , 20%, tan, fine sandy, micaceous, firm, thin bedded? forams?, leached fossil fragments
5412	<u>Volcanic Breccia</u> , 60%, as above <u>Sandstone</u> , 25%, fine, silty, light grey, locally calcareous, micaceous, quartzose, rare lignitic. No ether cut <u>Siltstone</u> , 15%, tan, micaceous, fine sandy, locally clayey. Very pale ether cut after 1/2 hr - pale yellow (NOTE: No. drilling break) after several hours.
5427	<u>Volcanic Breccia</u> , 75%, as above <u>Claystone</u> , 25%, silty, brown, soft, plastic when wet
5441	<u>Claystone</u> , 90%, brown, hard, micromicaceous, compact, forams? Extremely faint ether cut after several hours. <u>Volcanic Breccia</u> , 10%, as above
5476	<u>Volcanic Breccia</u> , 50%, as above <u>Siltstone</u> , 25%, brown, micaceous, foraminiferal, clayey <u>Sandstone</u> , 20%, light grey, quartzose, locally calcareous, locally friable <u>Claystone</u> , 5%, brown, micromicaceous, hard (Note: round trip at 5461)
5491	<u>Siltstone</u> 50%, clayey, brown, micaceous, forams?? <u>Volcanic Breccia</u> , 40%, as above but includes light grey tuff <u>Sandstone</u> , 10%
5504	Ditto
5519	<u>Siltstone</u> , 75%, clayey, brown, micaceous <u>Volcanic Breccia</u> , 25% <u>Trace Sandstone</u>
5535	Ditto
5550	Ditto