LITHOLOGIC LOG

Project:_	McCoy		
Hole:	28-18	864-	66

Elevation:		Date Drilled: 5/27/81-7/6/82	
Location: SW 1/4 SW 1/4 Sec 18 T22N R40E MDBMMethod: air/foam and mud			
Geologist:	Deymonaz	Gamma:	
Depth (m) Description			
124-134	plagioclase (1-4mm). Sm and hornblende. Groundm	d, 10% phenocrysts of clear tabular mall magnetite common and rare biotite mass mostly aphanitic with some small ple. No fracturing evident in cuttings and in drilling.	
134–137	white plagioclase and biquartz. Groundmass of a	nk, well indurated, 25% phenocrysts of otite (1–3mm) with smaller anhedral argillized ash and lithic fragments. A along fractures and extend several mm	
137-152	phenocrysts of biotite and manganese along some small argillized ash and small clay mineral common. Be intense and phenocrysts of the second s	te, moderately well indurated, 5-10% and plagioclase (0.5-1.0mm). Minor all tight fractures. Groundmass of lithic fragments. Unidentified yellow low 137m argillic alteration more decrease to less than 5%. Yellow 143-146m, minor in rest of interval.	
152-163	limonitic staining and co	indurated, light gray, pervasive ommon manganese deposited, argillized and minor biotite. Numerous prismatic plagioclase.	
163-180	appears less fractured. phenocrysts. Samples cor	uch less limonite staining and rock Common plagioclase and minor biotite, ntaminated with fractured interval ied clay mineral as in 137–152m ome feldspar crystals.	
180-186		ractured and pervasive pink to red t water encountered at about 183 meters.	
186-216	Tuff - As 163-180 except	light to med. gray.	
216-253	and black aphitic lithic plagioclase, biotite and	d. gray to brownish gray, 30% small red fragments, 25% crystals of rare quartz in ash matrix. Poorly to d. Moderate hematite staining and mineral as above.	

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253-274	<u>Lithic Crystal Tuff</u> - Similar to above except mostly tuffaceous material with little of red and black lithic material. Common flattened glass shards. Minor limonitic staining. Moderate to well indurated.	
274-284	Welded Crystal Lithic Tuff - Light greenish gray, hard. Phenocrysts of plagioclase in welded glassy partly silicified aphanitic matrix. Common small lithic fragments and small angular cavaties filled with soft green clay.	
284-299	Crystal Lithic Tuff - Non-welded argillized tuff similar in composition to above interval. Moderately well indurated.	
299-302	<u>Lithic Crystal Tuff</u> – Light gray to greenish gray. Poorly indurated, abundant devitrified glass and relic pumice. 5–15% phenocrysts of plagioclase. Matrix and phenocrysts extensively argillized.	
302-326	<u>Lithic Crystal Tuff</u> - Medium gray to gray green. Well indurated, composed almost entirely of obsidian, pumice and glass shards in tuffaceous matrix. Glass mostly devitrified but common fresh appearing glass fragments. Some chips have abundant quartz and plagioclase crystals. 320-326 has welded aphanitic matrix with 25% glass and phenocrysts. Highly fractured 314-326.	
326-332	<u>Tuff</u> - Light gray, 3-5% small lithic fragments and plagioclase crystals, possibly some quartz (<0.5mm).	
332-343	Welded(?) Crystal Lithic Tuff - Lavender, well indurated tuff with 20-30% crystals of plagioclase (0.5-2.0mm), minor biotite, and common small lithic and pumice fragments. Finely crystalline to aphanitic groundmass.	
343-366	<u>Tuff</u> - Green, argillized to clay, abundant (20-40%) angular chert fragments.	

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366-409	Chert or Lithic Tuff - Various shades of green and brown, drilled as a soft rock but fine competent cuttings retrieved, may be continuation of 343-366m unit with clay matrix material washed from cuttings. Chert cuttings much finer than in 343-366m interval.
409-428	<u>Shale and Chert</u> - Black, laminated, minor calcite filled fractures. Chert as above 20–50% and decreasing with depth. Some or all of chert may be from sluffing up hole.
428-594	<u>Drilled with no returns</u> - Drilled as: 409-428 with intermittent hard zones.