

SOUTHERN CRUMP 47-RD-77 4-41S/24E

<u>FEET</u>	<u>LITHOLOGY</u>
15-20	Basalt weathered, vesicular, some feldspar, groundmass dark, no olivine. Some altered silica. Ca CO <sub>3</sub> present
35-40	a/a less vesicular
55-60	Basalt weathered, a/a. Some zeolites, hemetite
75-80	Basalt, weathered and altered. Clay minerals
85-100	Basalt, a/a, more dense, hemetite
115-120	Basalt, denser, darker. Abundance of red mineral - hematite and green-chlorite epidote
135-140	Weathered basalt, baked red claystone-siltstone, altered silica, quartz grains, volcanic sand. Some zeolites Ca CO <sub>3</sub> present, abundance of hematite
155-160	Volcanic sand and gravel
175-180	Volcanic sand and gravel; quartz detritus
195-200	Playa sentiments, gypsum; detritus sand. Volcanic gravel; Diatomaceous earth
215-220	Volcanic sand and gravel. White light playa sediments. Diatomaceous earth? Siltstone?
235-240	Gravel, volcanic. Tuff
255-260	a/a
275-280	a/a
285-300	Gravel, volcanic, tuff-pinkish, playa deposits
315-320	Tuff, red, volcanic, rhyolite, fluorite
335-340	Tuff, red altered, volcanic. Rhyolite lava
355-360	Rhyolite, altered
375-380	Rhyolite altered
395-400	Rhyolite, altered silica
435-440	Volcanic flow more mafic. More dense olivine basalt
455-460	a/a and some volcanic sand and gravel. Quartz detritus. White lake deposits
475-480	Basalt, altered
495-500	a/a, altered, secondary silica
515-520	a/a and some light white tuff? Lake beds?
535-540	Basalt flow; secondary silica, iron oxide
555-560	Basalt, altered; sec. silica
575-580	Basalt, very altered; volcanic sand and gravel
595-600	Volcanic sand and gravel. Quartz detritus
615-620	a/a
635-640	Altered basalt flow, abundance sec. silica
655-660	Basalt; dark grey, fresh
675-680	Basalt, some detritus silica, volcanic sand and gravel
685-700	Basalt, grey-green
715-720	Basalt, dark and greenish; olivine? denser
735-740	Basalt; dark, dense
755-760	a/a Quartz detritus, sand and gravel
775-780	Basalt, altered
795-800	Basalt, altered and some quartz detritus and copper minerals
815-820	a/a some clay
835-840	Basalt, altered, reddish or volcanic tuff
855-860	Volcanic detritus, altered basalt, calcite, sec. silica

<u>FEET</u>	<u>LITHOLOGY</u>
875-880	Volcanic detritus, some white lake beds, quartz
895-900	a/a
915-920	Volcanic detritus, some white clay or lakebeds, tuff, brown-red.
935-940	a/a, red claystone (tuff), white welded (hard) tuff.
955-960	Volcanic detritus, very altered basalt? Tuff? sec. silica, quartz detritus
975-980	Welded tuff, sec. silica
995-1000	a/a
1015-1020	a/a
1035-1040	Volcanic and quartz detritus, welded tuff, sec. silica
1055-1060	a/a, some brown-red volcanic tuff
1075-1080	a/a sec. silica
1095-1100	Altered tuff? and silica detritus
1115-1120	Altered tuff, silica detritus
1135-1140	a/a
1155-1160	a/a
1175-1180	a/a
1195-1200	a/a
1215-1220	Altered tuff, volcanic and quartz detritus
1235-1240	Altered tuff
1255-1260	Altered silicified tuff
1275-1280	Sand, gravel, silica detritus
1235-1300	Volcanic and silisic detritus; welded, silicified tuff
1315-1320	a/a and red-brown tuff
1335-1340	As above
1355-1360	As above
1375-1380	As above
1395-1400	Volcanic sand and gravel, quartz detritus, iron oxides
1415-1420	a/a
1435-1440	Tuff, brown red and tuff, silicified, greenish

3-28-78

