
DEPTH & THICKNESS

0--480-- Tuffaceous clay, sand & gravel.
 480--610--130'--soft white tuffaceous clay; some gravel embedded
 in clay. tan & coffee colored tuffaceous clays.
 few pieces of green shale.
 610--650--40'--Grayish tan to grayish black lava; green mineral
 in lava.
 650--660--10'--altered sediments.
 660--690--30'-- grayish tan to grayish black lava.
 690--708--18'--red to brick colored altered material; red sandy shab
 708--750--42'-- grayish tan lava.
 750--790--40'--vari-colored altered material; clear quartz? in
 altered material.
 790--1000--210'-- vari-colored volcanic agglomerate; gray & green
 bentonitic clays; white clay.
 1000--1100--100'--hard grayish black lava with high iron Pyrite.
 1100--1140--40'-- streaks of grayish black lava & gray tuffaceous
 clays and shales.
 1140--1290--150'-- gray ,green & white tuffaceous shale & clay
 with some sandy streaks; Some vari-colored tuffaceous
 shale with large quartz crystals; some cream colored
 clays.

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1290--1430--140'--cream colored limey clay vari-colored tuffaceous
 clays.
 1430--1585--155'--tuffaceous material & some sandy streaks
 grayish green to grayish tan clay which has been
 partly altered to quartz? by hydrothermal action
 vari-colored sand.
 1585--1860--275'--very hard grayish white hydrothermally altered
 sediments; the original material was probably
 volcanic ash.
 1860--3730--1870'vari-colored bentonitic clays; tuffaceous shales
 grayish black altered sediments; green shales
 and streaks of limey ash; some hydrocarbons? in
 tan & brown shales.
 3730--3850--120'-- hard ,fine grained,grayish tan to grayish black
 lava.
 3850--3950--100' grayish black altered sediments.
 3950--4010--60'-- grayish tan to grayish black lava
 4010--4065--55'-- grayish to grayish green altered sediments
 4065--4092--27'-- grayish black lava
 4092--4100--8'-- altered material
 4100--4118--18'--grayish black lava
 4118--4121--3'--altered material
 4121--4143--22'--grayish black lava
 4143--4310--167'--vari-colored altered sediments with sandy streaks.
 4310--4350--40'--grayish black ,fine grained lava.
 4350--5140--790'--gray,green & tan bentonitic clays and some

composite log page 3.
 continued.

altered sediments .

DEPTH & THICKNESS

5140--5155--15'-- top of Columbia basalts of lower Miocene age.
 grayish tan to grayish black lava.
 5155--5228--73'-- bentonitic clays; tuffaceous shales.
 5228--5260--32'-- grayish tan lava
 5260--5290--30'-- tan & green clay & altered material.
 5290--5300--10'-- grayish tan lava
 5300--5320--20'-- vari-colored altered material.
 5320--5390--70'--grayish tan to grayish black lava
 5390--5410--20'--vari-colored altered sediments.
 5410--5470--60'--very hard grayish tan to grayish black lava
 5470--5560--90'--soft bentonitic clays & vari colored altered
 sediments.
 5560--5680--120'--grayish tan lava with black mineral specks.
 5680--5800--120'--grayish tan & green bentonitic clay ;brick red
 altered material & altered material in streaks.
 5800--5830--30'-- grayish tan lava
 5830--5855--25'--vari-colored altered sediments & thin streaks
 of lava.
 5855--6000--45'--grayish tan lava;
 6000--6060--60'-- gray,tan & green altered sediments
 6060--6103--43'-- grayish tan to grayish black lava
 6103--6230--227'--soft gray, tan & green bentonitic clays &
 streaks of altered material.
 6230--6280--50'--grayish black & grayish green lava.

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DEPTH & THICKNESS

6280--6420--40' tan & green bentonitic clays
 6420--6480--60'-- TOTAL DEPTH--grayish black & grayish green lava
 and grayish tan lava.

All samples were checked with a fluoroscope and there
 were no worth while shows of oil and gas. There is a very close
 correlation between sample log, drilling time and Schlumberger
 log. The high resistivity values on the Schlumberger log
 correlate with the lava beds. The high drilling time also
 correlates with the lava beds.

There were some streaks of dry hydrocarbon in the
 brown and tan shales. It appears that this has been burned by
 high temperatures.