

ERTL ROAD #12

0-2'	No recovery.
2'-8'10"	Oil shale, fresh, low grade, light brown to tan, finely banded. Fine band of volcanic ash at 7'5", 8', and 8'3".
8'10"-8'11"	Volcanic ash, brown, fine grained.
8'11"-9'4"	Shale as above, slightly richer, and medium brown in color.
9'4"-9'6"	Volcanic ash, irregular layer, brown to white.
9'6"-11'0"	Oil shale, medium to rich grade, dark brown, finely banded.
11'0"-14'0"	Oil shale, low to medium grade, brown to light brown, finely banded. 60° fracture at 12'. 8" cavity at 13'.
14'-18'	Oil shale, medium to rich grade, dark brown to nearly black, finely banded, 1/2" streak volcanic ash at 15'5".
18'-23'	Oil shale, low grade, light brown to tan, finely banded. 65° fracture at 21', 1' cavity at 21'2".
23'-24'5"	Mahogany Marker in this zone, rust colored volcanic ash. Recovered several fragments of the Marker.
24'5"-25'	Shale as above, appears weathered.
25'-28'6"	Oil shale, low grade, light brown to brown.
28'6"-29'2"	Cavity 8" - nacholite concretion cavity?
29'2"-30'0"	Recovered few fragments of shale as above.

- 30'0"-32'0" Recovered 3" of fragments of shale as above. One fragment has 60° fracture that is weathered.
- 32'-33'10" Recovered 6" of fragments of rich oil shale, brown to dark brown, light in weight, finely banded.
- 33'10"-35' Oil shale, rich as above.
- 35'-36'9" 1'9" cavity, appears to be a weathered nacholite concretion cavity.
- 36'9"-37'2" Rich oil shale as above.
- 37'2"-46'3" Oil shale, very rich, dark brown, finely banded, light weight. Weathered fractures, bedding planes or concretion cavities at 37'2", 38'0", 38'2", 38'6", 38'8", 39'8", 40'6", 41'3" (1' cavity), 42'8", 42'10", 43'1".
- 46'3"-48'0" 1'4" cavity, one fragment with vertical fracture.
- 48'-51'7" Rich oil shale, dark brown, finely banded, 70° fracture at 48'4" and 49'.
- 51'7"-53'9" 2'2" cavity, probably nacholite concretion.
- 53'9"-57'0" Oil shale, medium to rich, as above.
- 57'-57'2" Weathered zone along bedding plane?
- 57'2"-59'8" Oil shale, medium grade, brown to dark brown, finely banded.
- 59'8"-61'0" Cavity, probably a nacholite concretionary cavity.

61'-83' Oil shale, rich, dark brown, finely banded, good recovery.

63'-64' Oil shale, weathered on a vertical fracture.

64'-66'6" Oil shale, medium grade, brown to dark brown, finely banded, fresh.

66'6"-67'0" Shale as above.

67'0"-70'6" No recovery, 3'6" cavity nasholite concretion or fracture. Core weathered above and below cavity.

70'6"-72'0" Oil shale, medium grade, brown to dark brown, finely banded.

72'0"-78'0" No recovery, weathered zone.

78'0"-79'0" Oil shale as above, one piece with vertical fracture.

79'0"-80'0" No recovery, core thoroughly weathered above and below cavity.

80'0"-81'3" Oil shale, medium grade, weathered along 70° fracture plane.

81'3"-89'6" Recovered 5' of oil shale, medium grade, brown to dark brown as above, 60° fracture at 82'6" weathered fracture face, 1'3" cavity at 82'6", 1' cavity at 83'6".

89'6"-91'6" 2' cavity.

91'6"-91'8" Recovered 2" of fractured core, weathered on face of vertical fracture.

- 91'8"-93'10" 2'2" cavity.
- 93'10"-95' Oil shale, medium to rich grade, brown to dark brown, finely banded.
- 95'-97'0" Oil shale, low grade, tan to brown, some bladed crystal cavities.
- 97'-98' Crystal cavity zone, cavities have bladed shapes, 70° recemented fracture.
- 98'-99' Low grade oil shale as above.
- 99'-112' Recovered 6' of low to medium grade oil shale, vertical fracture at 110'.
- 112'-126' Recovered 2 $\frac{1}{2}$ ' of interbedded low to medium grade oil shale.
- 126'-128' Oil shale, medium grade, dark brown to brown, finely banded as above.