

Grand Valley, Colorado

July 11, 1955

John E. Sherborne

Brea, California

Dear John:

I am enclosing descriptions of cores from Ertl
Road No. 7, No. 8, No. 12, and Core Hole No. 9.

Sincerely,

Irvin Nielsen
by
aw

Irvin Nielsen

IN/aw

Enclosure

cc: Dr. Tell Ertl
Mr. Wally Valentine

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ERTL ROAD 7/8

- 0-10' Recovered 1' of fragments of burned and weathered low-grade oil shale. Colors range from red, to dark gray, to light tan.
- 10'-22' Recovered 3 (about 3") fragments of medium-grade oil shale, dark brown, weathered, one piece of volcanic ash.
- 22'-24'2" Oil shale, medium grade, brown to dark brown, weathered, may be partially retorted. Recovered 2'.
- 24'2"-27'8" Shale as above, recovered 2'. Shale weathered on fracture surface.
- 27'8"-29' Approximate zone of the Mahogany Marker. Few fragments of tan volcanic ash, with fragment of oil shale as above.
- 29'-35' Recovered 3' of oil shale, medium grade, dark brown. Shale is weathered on irregular fractures and bedding planes.
- 35'-46' Recovered 3' of oil shale, high grade, weathered on bedding planes, dark brown to black, looks partially retorted, dull luster on fresh fracture. Weathering on bedding planes approximately at 1" to 2" intervals.
- 46'-63' Fragments of rich to medium-grade oil shale, weathered, recovered 3' of fragments, dark brown to black, finely banded. 7 $\frac{1}{2}$ ' cavity, nacholite concretion.

- 63'-69' Oil shale, light brown, low grade, finely banded, weathered on bedding planes.
- 69'-75' Recovered 3' of oil shale, high to medium grade, brown to dark brown, weathered on bedding planes at 73' and 74', core looks fresh.
- 75'-90' Oil shale as above. Weathering on bedding planes at 77', 84', 86', and 87'. 5'9" cavity (nachelite concretion) at 76', 1'6" cavity at 86'. Recovered 5' from 75-90'.

Core hole #8 was drilled near the contact of burned and unburned areas. The core is burned to a depth of 10' and not burned below 10'. The core is weathered throughout. Cavities or zones of no recovery may be due to numerous nachelite concretion cavities or weathered fractures.