

CORE DESCRIPTIONS OF ERTL ROAD #5

- 0-14' Burned oil shale, reddish brown to red, low grade, finely banded, recovered 1' of fragments in 14'.
- 14'-21' Oil shale, tan, low grade, burned on fracture faces, few fragments of mahogany marker, oxidized, red, volcanic ash at 21'. Recovered 1' of fragments from 14' to 25'.
- 21'-65' Oil shale, dark brown to black, burned on fracture faces, looks partially retorted, has a sooty appearance, brittle and broken up by drill. Recovered 10' from 21' to 55'. Recovered $2\frac{1}{2}'$ from 55' to 65', or 25%.
- 65'-74' Oil shale, medium grade, brown to dark brown, burned on fracture face, 60° fracture at 67', 45° fracture 70'.
- 74'-85' Recovered 6" of clay-type fracture filling. No oil shale.
- 85'-104' Oil shale, low to medium grade (low grade to 97', medium grade 97' to 104') tan to brown, recovered 3' from 85' to 104'.

The oil shale of the mahogany ledge in this core has evidently been burned and altered by heat. Recovery of the cored interval was approximately 20%. The burning and retorting of the shale has changed its physical character. It is more brittle and is easily broken up by the drill. Recovery of cores of fresh oil shale is usually near 100%, but in this burned core, it was only 20%.

Grand Valley, Colorado
June 24, 1955

Irvin Nielsen

Mr. John E. Sherborne, Manager
Production Research Division
Union Oil Company of California
Research Center
Brea, California

Dear John:

Core holes #5 and #6 have been completed. Both holes were drilled in burned outcrops and the cores were completely burned and/or retorted. Recovery of the cores did not exceed 25% due to the burned character of the section.

I am enclosing descriptions of cores Nos. 1, 3, 5, and 6. These descriptions may appear to be sketchy, due to the poor recovery.

Latham is currently drilling #4. This was collared in a fresh outcrop and should be a completely fresh core with nearly 100% recovery.

Very truly yours,

Irvin Nielsen

Irvin Nielsen

IN/aw
Enclosure

cc: Dr. Tell Ertl, w/enclosure
Mr. Wally Valentine, w/enclosure