

U.S. GEOLOGICAL SURVEY
CORE HOLE EOS-4

LOCATION
SW 1/4 Sec. 8, T. 34 N., R. 56 E., Mount Diablo Meridian, Elko County, Nevada; from southeast section corner, located approximately 450 ft north and 800 ft west.

APPROXIMATE ELEVATION = 5660 ft

TOTAL DEPTH = 292.8 ft

HOLE DIAMETER = 3.0 in. **CORE SIZE:** NQ (1.875-inch diameter)

DRILLED BY: Toly Exploration and Drilling, Salt Lake City, Utah

DRILLING MEDIUM: Air mist

DEPTH TO CORE POINT = 20.0 ft

DATE STARTED: 9/17/81 **DATE COMPLETED:** 9/27/81

WELL-SITE GEOLOGISTS: S. W. Moore, F. W. Smith, and H. B. Madrid (U.S. Geological Survey); and L. G. Trudell and G. F. Dana (Laramie Energy Technology Center).

WIRE-LINE WELL LOGS
Logger: White Dog Exploration CO., Salt Lake City, Utah
Date Logged: 11/22/81
Logged Depth: 263.0 ft

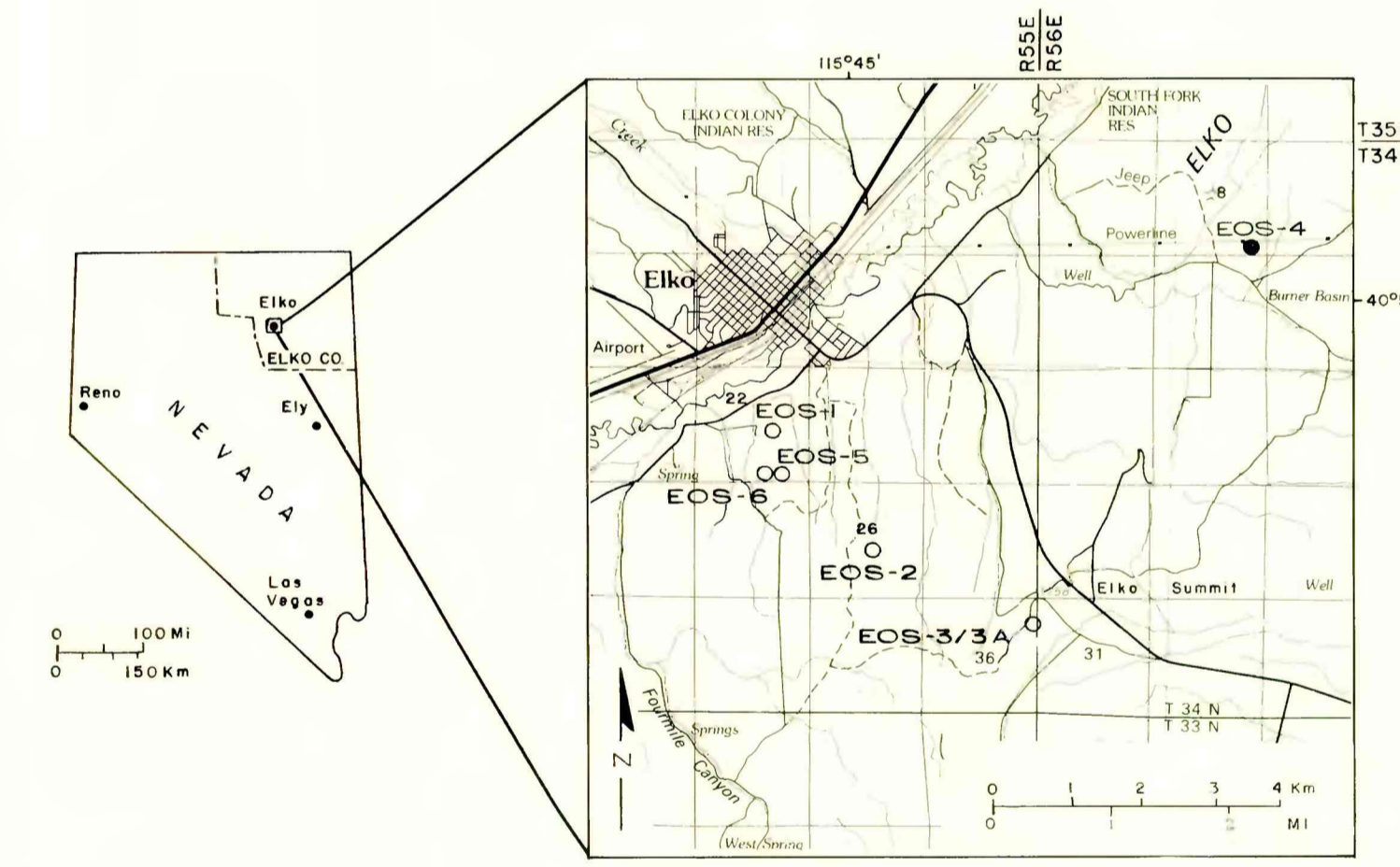
Type of Log	Abbreviation	Logging Speed (feet/minute)	Time Constant
Gamma Ray	GR	15	2
Gamma-Gamma Density	GGD	10	1
Resistance	R	15	---
Caliper	CAL	15	---

Remarks: Original scale of logging was at 1 inch = 5 ft. The resistance log is an uncalibrated log; relative resistance increases to the right. The horizontal scale of the gamma-gamma density log changes at a depth of 81 ft (water level). Density increases to the right.

HOLE CONDITIONS
Depth of casing = 20.0 ft
Empty hole 0-81 ft; fluid (water) level at 81 ft

LITHOLOGIC UNITS PENETRATED
Eocene and Oligocene(?) Elko Formation--oil shale and siltstone of Burner Basin member (correlative with member 3--dolomite and oil shale member located further west, in core hole EOS-3/3A); Eocene cherty limestone. Average dip of bedding = 15°.

FISCHER ASSAYS BY
L. G. Trudell, Laramie Energy Technology Center, Laramie, Wyoming using the modified Fischer retort method.



This report has not been edited for conformity with U. S. Geological Survey editorial standards or stratigraphic nomenclature.

FISCHER ASSAY OIL-YIELD HISTOGRAM, WIRE-LINE WELL LOGS, AND GENERALIZED LITHOLOGIC LOG FROM CORE HOLE EOS-4, ELKO COUNTY, NEVADA

By
S.W. Moore
1983