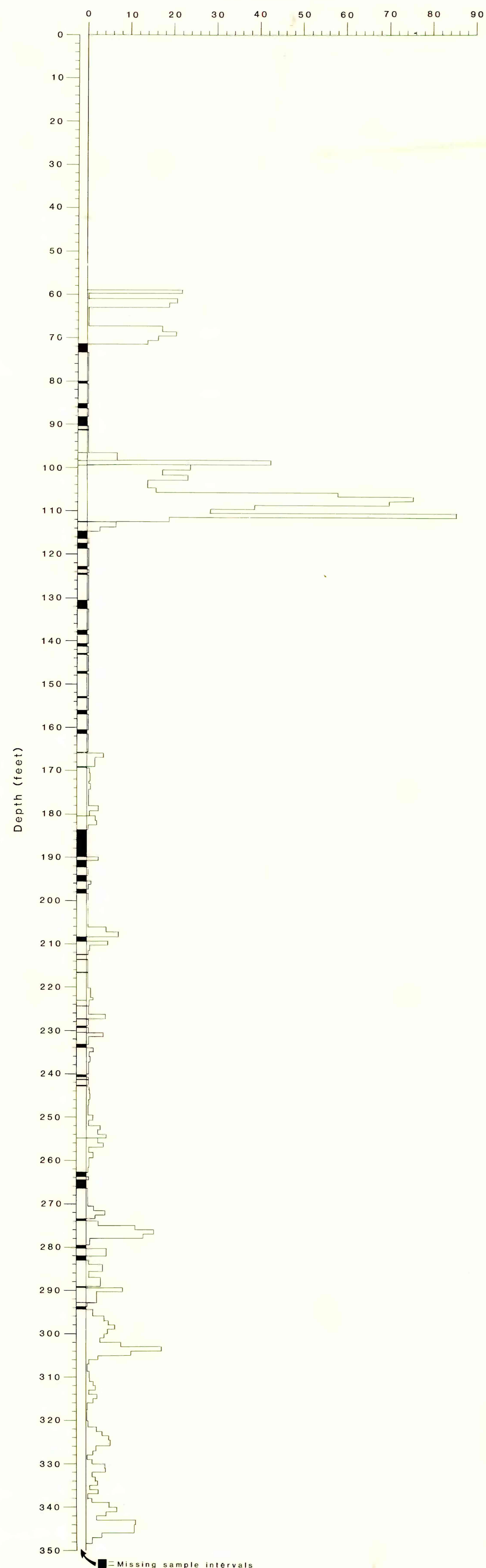
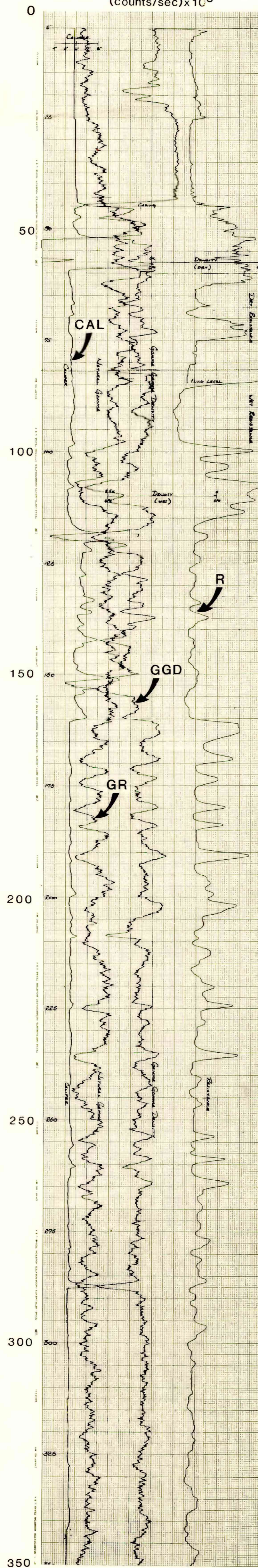


Core Hole EOS-3/3A

Fischer Assay Oil Yield
(gallons/short ton)

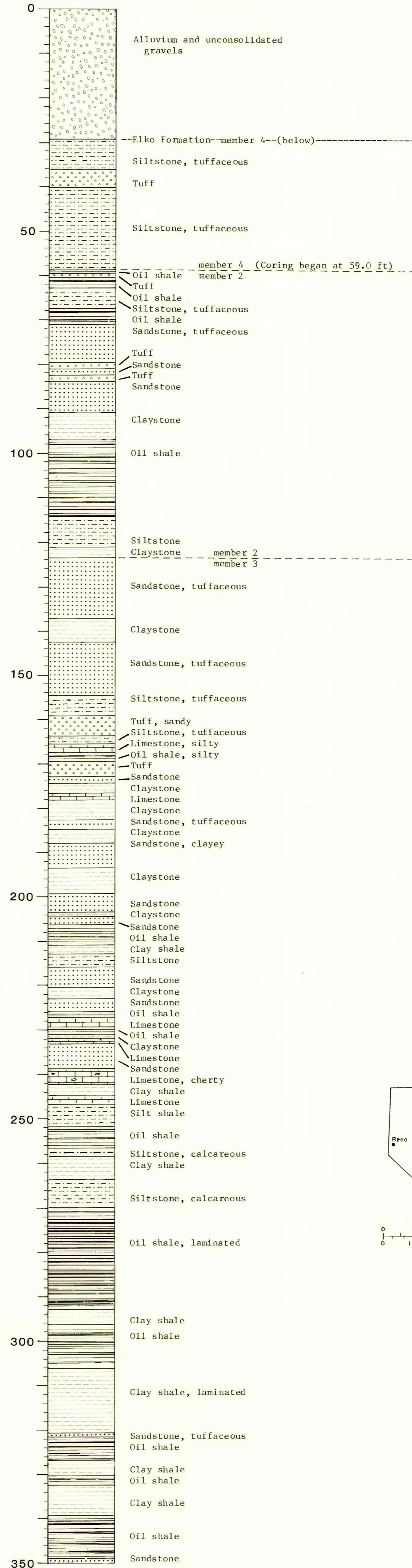


Gamma-Gamma
Density (GGD)
0-85 ft
5 4 3 2 1 0
Caliper (CAL)
Hole Diameter
4 5 6 7 8
inches
(counts/sec) x 10³
85-350 ft



(counts/sec) x 10
0 1 2 3 4 5
Gamma Ray (GR)

Columnar Section
General Lithologic Description



(350-800 ft continued on Plate 8B)

U.S. GEOLOGICAL SURVEY
CORE HOLE EOS-3/3A* (0-350 ft)

LOCATION
SE1/4NE1/4 sec. 36, T. 34 N., R. 55 E., Mount Diablo Meridian, Elko County, Nevada; from northeast section corner, located approximately 800 ft south and 250 ft west.

APPROXIMATE ELEVATION = 5820 ft

TOTAL DEPTH: Core hole EOS-3, 488 ft;
Rotary Drill hole EOS-3A, 800 ft

HOLE DIAMETER (Drilled): CORE SIZE: NQ (1.875-inch diameter)
EOS-3, 3.0 in.
EOS-3A, 5.125 in.

DRILLED BY: Toly Exploration and Drilling, Salt Lake City, Utah (EOS-3)
Rinrock Drilling, Elko, Nevada (EOS-3A)

DRILLING MEDIUM: EOS-3, Air mist and bentonite gel
EOS-3A, Air mist and foam

DEPTH TO CORE POINT = 59.0 ft

DATE STARTED: EOS-3, 10/23/81
EOS-3A, 12/08/81

DATE COMPLETED: EOS-3, 11/19/81
EOS-3A, 12/10/81

WELL-SITE GEOLOGISTS: S. W. Moore, H. B. Madrid, R. D. Dockter, H. A. Villalobos, and E. D. Roberts

WIRE-LINE WELL LOGS
Logger: White Dog Exploration, Salt Lake City, Utah
Date Logged: 12/10/81
Logged Depth: 620.0 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	---

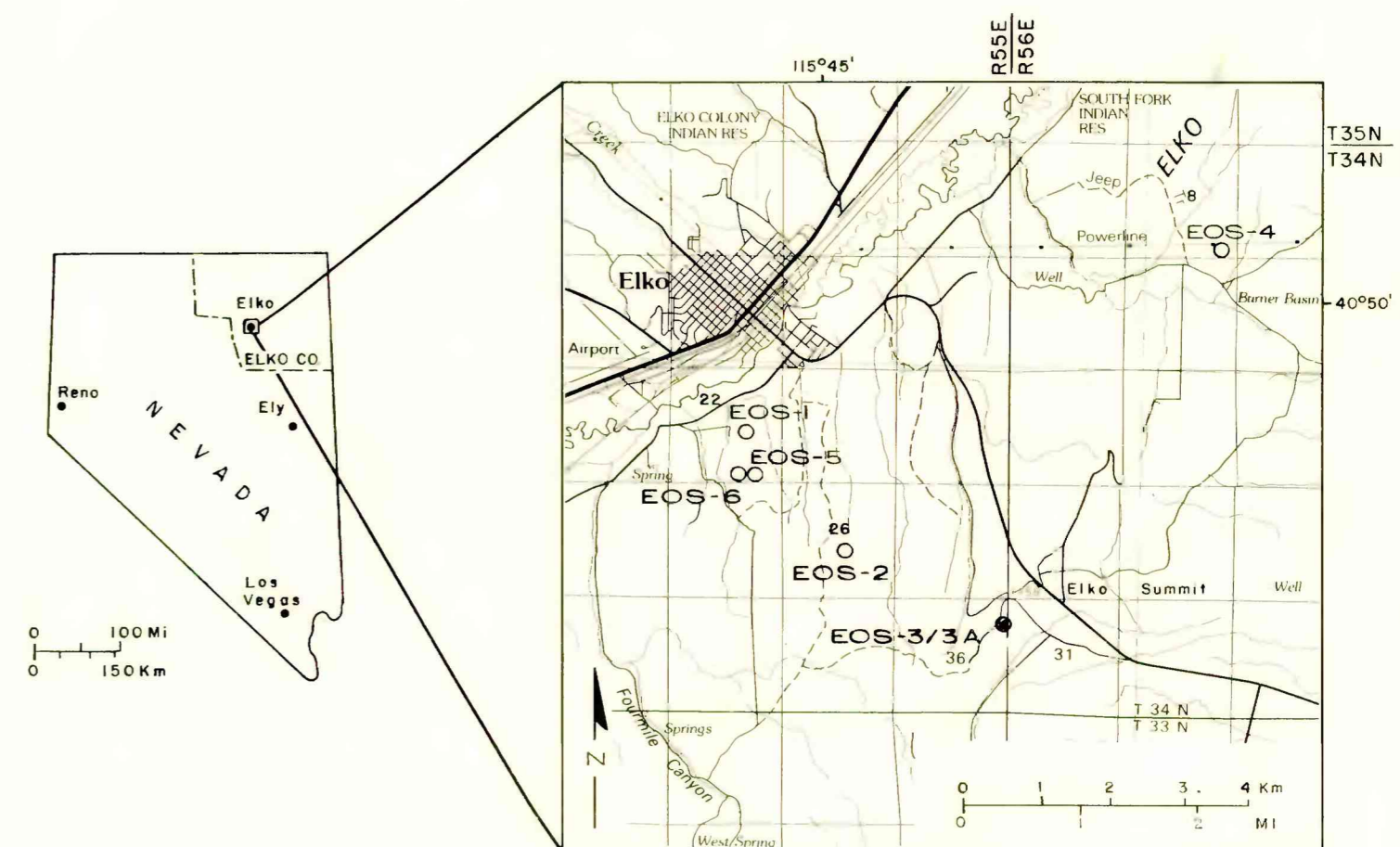
Remarks: Original scale of logging was at 1 inch = 5 ft. The resistance log is an uncalibrated log; relative resistance increases to the right. The horizontal scale of the gamma-gamma density log changes at a depth of 85 ft (water level). Density increases to the right.

HOLE CONDITIONS
Depth of casing = 45.0 ft in rotary drill hole EOS-3A
Empty hole 0-85 ft; fluid (water) level at 85 ft

LITHOLOGIC UNITS PENETRATED
Quaternary alluvium and gravels; Eocene and Oligocene(?) Elko Formation--member 4 (siltstone and oil shale member), member 2 (oil shale member), member 3 (dolomite and oil shale member), and member 1 (claystone and conglomerate member). Average dip of bedding = 26°.

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

*Note: EOS-3/3A represents a composite set of well logs of two separate but closely spaced drill holes at this drillsite. EOS-3 is a core hole; within 15 ft of EOS-3, EOS-3A, a rotary drilled hole was drilled to a depth of 800 ft. Cuttings were collected at 5-ft intervals in EOS-3A. Wire-line well logs were run in EOS-3A.



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-3/3A (0-350ft), ELKO COUNTY, NEVADA

By

S.W. Moore, H.B. Madrid, H.A. Villalobos, and R.D. Dockter