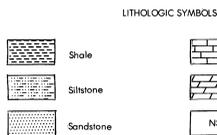
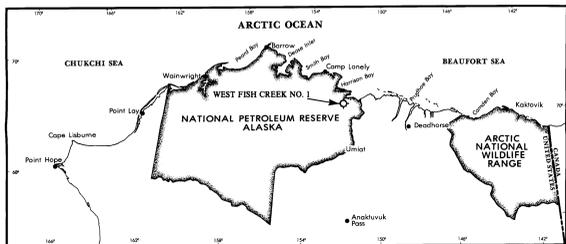
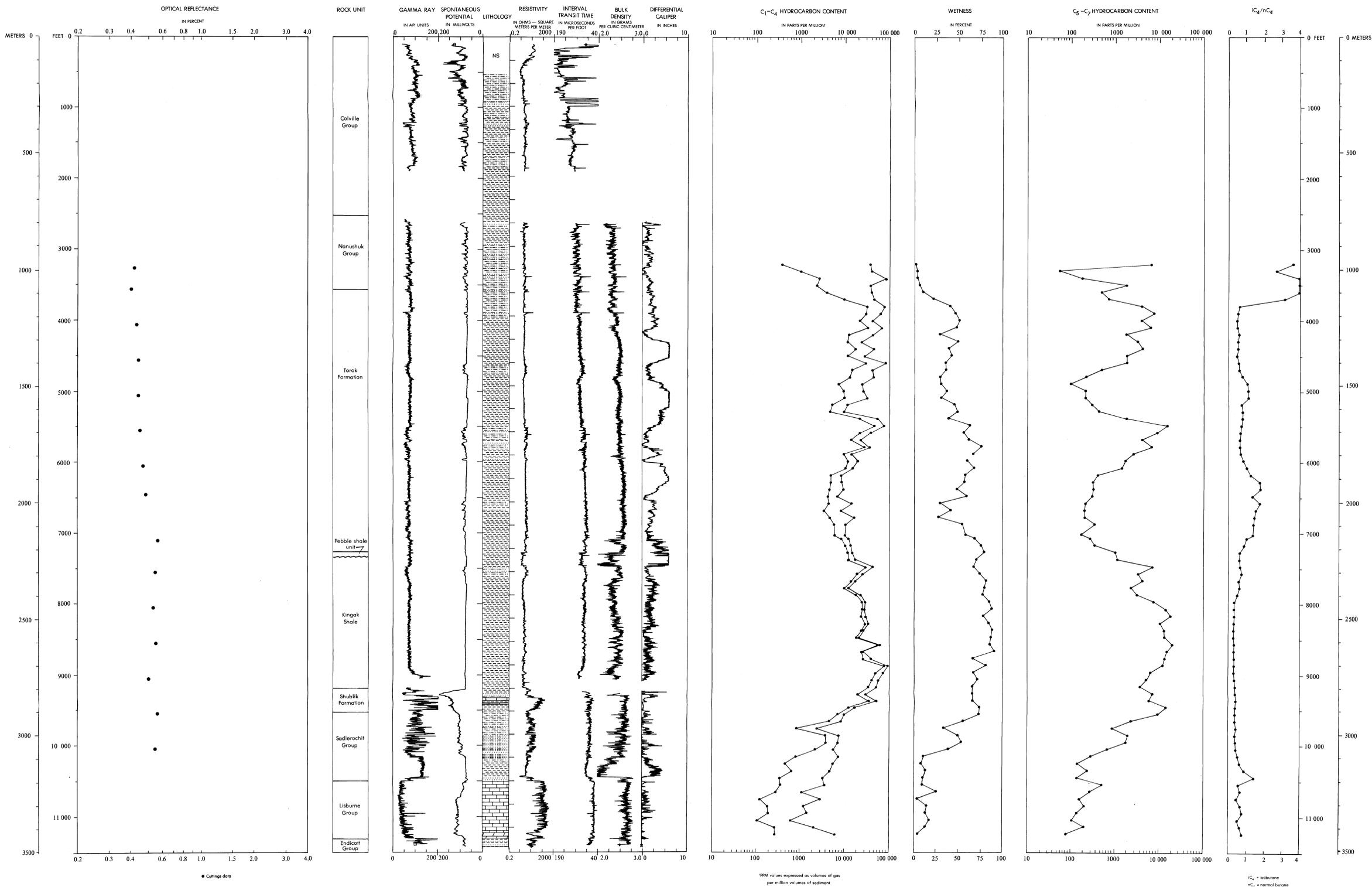


WEST FISH CREEK NO. 1

API No. 50-103-20009  
Sec. 11, T. 11 N., R. 1 W., UM  
Lat 70°19'36" N., long 152°03'38" W.  
Elev KB 34.4 m (113 ft)  
TD 3,483 m (11,427 ft)

VITRINITE REFLECTANCE

TOTAL C<sub>1</sub>-C<sub>7</sub> HYDROCARBON HEADSPACE GAS PLUS CUTTINGS GAS



**INTERPRETATION**

This report displays vitrinite reflectance, aromaticity index, lithology, and hydrocarbon data for the West Fish Creek No. 1 well. These data are used to indicate degree of thermal maturity, to a lesser extent, the level of organic matter in the rock, and to provide information on the thermal history of the well. The vitrinite reflectance data are plotted against depth in the lithology column. The aromaticity index is plotted against depth in the lithology column. The hydrocarbon data are plotted against depth in the lithology column. The vitrinite reflectance data are plotted against depth in the lithology column. The aromaticity index is plotted against depth in the lithology column. The hydrocarbon data are plotted against depth in the lithology column.

**ANALYTICAL PROCEDURES**

The vitrinite reflectance data were obtained by using a reflectometer. The aromaticity index was determined by using a gas chromatograph. The hydrocarbon data were determined by using a gas chromatograph.

**RESULTS**

The vitrinite reflectance values range from 0.2 to 4.0 percent. The aromaticity index values range from 0.2 to 4.0. The hydrocarbon data range from 10 to 100,000 parts per million.

**GENERAL WELL DATA**

Well Name: WEST FISH CREEK NO. 1  
API No: 50-103-20009  
Section: Sec. 11, T. 11 N., R. 1 W., UM  
Latitude: 70°19'36" N.  
Longitude: 152°03'38" W.  
Elevation: 34.4 m (113 ft)  
Total Depth: 3,483 m (11,427 ft)

**WELL INFORMATION**

Well Name: WEST FISH CREEK NO. 1  
API No: 50-103-20009  
Section: Sec. 11, T. 11 N., R. 1 W., UM  
Latitude: 70°19'36" N.  
Longitude: 152°03'38" W.  
Elevation: 34.4 m (113 ft)  
Total Depth: 3,483 m (11,427 ft)

Depth (m)	Depth (ft)	IC <sub>4</sub> (n)	IC <sub>4</sub> (n)
0	0	0.2	0.2
1000	3280	0.3	0.3
2000	6560	0.4	0.4
3000	9840	0.5	0.5
3483	11427	0.6	0.6

**DISCUSSION**

The vitrinite reflectance data indicate a general increasing trend of thermal maturity with depth. The aromaticity index values are relatively constant with depth. The hydrocarbon data show a general increasing trend with depth.

**CONCLUSIONS**

The West Fish Creek No. 1 well is a gas well. The vitrinite reflectance data indicate a general increasing trend of thermal maturity with depth. The aromaticity index values are relatively constant with depth. The hydrocarbon data show a general increasing trend with depth.

VITRINITE REFLECTANCE AND C<sub>1</sub>-C<sub>7</sub> HYDROCARBON DATA FOR WEST FISH CREEK NO. 1 WELL,  
NORTH SLOPE, ALASKA

By  
Leslie B. Magoon and George E. Claypool

1980