

## **Answer to the Lithology Quizz**

**The lithology in the interval of interest is: CARBONACEOUS SHALE**

**It is not COAL as mentioned by some respondents.**

**Although the neutron and density log responses are somewhat similar to those of coal, there are significant differences in the responses of the other logs, such as Gamma Ray (GR) and resistivity logs.**

**The GR log is not as low as in the coal layers. In fact, the GR log response indicates that the interval is relatively shaly.**

**The resistivity readings are also not very high as in the coal layers. There are two coal layers in the log section and responses in these coals are different from those in the interval of interest.**

**Coals usually have the following features on well logs:**

- **Very low Gamma Ray values**
- **Very high resistivity values**
- **Very low bulk density values**
- **Very high neutron porosity values**

