Plate 1 A-D Vitrinite Reflectance Measurements, Histogram and Images

Company:Core Lab - IRS Division/Hope Natural Gas CompanyFormation:UticaLocation:Wood Co., WVWell:Power Oil Company # 9634Depth (ft):9448.00Min Value1.95Max Value2.25Mean Value2.13equivalent is 1.72% Organic matter is post-	ist of Ro Values in Increasing Order: 1.95 2.18 2.25 The above values were measured on pyrobitumen. The VRo-eq is estimated to be 1.72% formula (Rvit = Rbit x 0.618 + 0.4).
# of Measurements 3 Strd Deviation 0.16	10 micrometers
Histogram	Pbit Ch Pbit Pbit Pbit Pbit
1.3-1.5 1.5-1.7 1.7-1.9 1.9-2.1 2.1-2.3 2.3-2	C
General Description: Organic matter (OM) is lean and occurs as pyrobitum intergranular space; broken chitinozoan fragments having a pitted surface text of other zooclast fragments; and specks of bitumen staining. A mean Ro,ran of on pyrobitumen gave an equivalent VRo of 1.72%. A mean Ro,ran of 1.84% m pitted chitinozoan gave equivalent VRo values of 1.53% and 1.62%, using the by Tricker et al. (1992) (RoVit-eq=(RoChi – 0.08) / 1.152) and Bertrand and M eq=(RoChi – 0.014) / 1.127). All of these VRo values suggest that the organic mature and in the dry gas stage of hydrocarbon generation and retention proc consists of quartz, carbonates, silt/clay, and pyrite. Photo Captions: (A) Pyrobitumen (Pbit) (BRo,ran=2.219%). (B) Thin and elongated fragment of a zooclast (Zoo) encountered normal to be (C) A broken fragment of a chitinozoan (Ch) showing the characteristic feature prosome (pr) and chamber (Cmb) (ChRo,ran=1.84%). (D) Thin-walled chitinozoan (Ch) showing the chamber (Cmb).	In that occupies re; minor amount 2.13% measured asured on the correlations given alo (2001) (RoVit- natter is post- ss. The matrix Hding. , such as P=Pyrite.



% using the Jacob



Plate 2 A-D Vitrinite Reflectance Measurements, Histogram and Images





Plate 3 A-D Vitrinite Reflectance Measurements, Histogram and Images





Plate 4 A-D Vitrinite Reflectance Measurements, Histogram and Images





Plate 4 E-H Images and Captions Continued

Company: Core Lab - IRS Division/Hope Natural Gas Company Formation: Utica Location: Wood Co., WV Power Oil Company # 9634 Well: Depth (ft): 9588.00



Photo Captions:

(E) Thin-walled chitinozoan (Ch) showing characteristic features, such as prosome (pr) and chamber (Cmb).

- (F) Thick-walled chitinozoan (Ch) showing the chamber (Cmb) and prosome (pr). Mean Ro,ran is 2.035%.
- (G) Same as in (E), but missing the chamber.
- (H) A zooclast (Zoo) fragment that was replaced by pyrite partially. A relic of the precursor is still visible.

P=Pyrite.



Cmb





