

Pasquia Hills Oil Shale — Reconnaissance Geology

D. J. Nikols*, Retread Resources Ltd., Calgary, AB
nikolsd@shaw.ca

R. V. Hardy, Earthworks Geoscience, Edmonton, AB

J. D. Campbell, Jaycon Reconnaissance, Edmonton, AB

and

G. L. Hoffman, Retread Resources. Ltd., Calgary, AB

The first major core drilling project in the Pasquia Hills oil shales (First and Second White Specks interval) since the 1960's began in February, 2002. This presentation augments data we presented at the May 2002 GAC/MAC meeting in Saskatoon. Fifteen holes were spaced over an area > 3 townships near the community of Hudson Bay, Saskatchewan. All holes were cored and continuously sampled. Geophysical logs including spectral gamma, neutron density, resistivity and full wave form sonic, were run in each hole. Core was split over its entire length using a diamond saw and visually described. Composites were made of material with similar organic carbon content by grouping serial constituents. Petrophysical analysis was combined with Rock-Eval total organic carbon and various shale oil yield measures in an effort to characterize this resource. A series of other assay and analytical measurements, petrography, micropaleontology, and sedimentological studies have been completed. The subcrop sedimentological and organic characteristics are contrasted and compared to the deeper basin character of both White Specks in Saskatchewan and Alberta.