

OILFIELD RESEARCH LABORATORIES

December 16, 1998

JAMES E. RUSSELL PETROLEUM, INC.

Nelson Lease, RW-20

Washdown

The following is an analysis of the sample obtained on November 20, 1998. The analysis consisted of the laboratory's routine distillation-extraction process. In addition, an acid solubility test was performed on the dry solids that remained after the extraction process.

Microscopic examination of the dry solids revealed small, white oolites / nodules, composing approximately 25%. The ready effervescence of these oolites suggests they are carbonates. No coal fragments were noted. The bulk of the dry solids appear to be a dirt-rust build-up.

Dry Solids = 53.9%

Water = 45.0%

Hydrocarbons = 1.1%

Acid solubility of dry solids = 36.2%

550

RW-20

1/11/96

~~BEFORE~~
BEFORE
CONSTRUCTION

AFFECTED BY
ROLLING

600

GEOTECHNICAL
CONCEPT
100' HIGHT

650

700

R.H.T. 73°F
R.D. 721'
T.D. 721'