

Shelf, Wellstream PVT Analyses

GeoMark analyses of 4 COG Yeso producers across the shelf:

"These oils all appear to have been generated from the same distal marine shale of likely Permian age based on terpene and sterane biomarkers."



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. 14613 Exhibit No. 36

Submitted by:

COG OPERATING, LLC

Hearing Date: May 16-17, 2011

COG-YESO-176