



Petrophysical Solutions, Inc.

Glenn E. Rayfield
Petrophysical & Geological Consultant

Summary: Twenty-three years experience as a petrophysicist and geologist in the petroleum industry. Strong background in the integration of geological, petrophysical, and production data. Extensive work in reservoir simulation studies. Domestic and international experience in comprehensive petrophysical evaluations of complex reservoirs, utilizing both workstation and PC based programs. Experience in development, reservoir, and operations geology, including reserve and acquisition evaluations. Excellent technical writing skills. Detail oriented, good team player, dependable.

Professional Experience:

Petrophysical Solutions, Inc

Petrophysical and Geological Consultant. Providing petrophysical, geological, and technical assistance primarily for reservoir characterization and simulation studies.

Roxar, Inc.

Senior Reservoir Geoscientist. Responsible for comprehensive petrophysical evaluations of major oil and gas fields, primarily in South America and the Middle East. Fields studied included onshore and offshore, clastic and carbonate reservoirs, ranging in size from four to 250+ wells. Performed advanced analyses based on statistical techniques, utilizing core measurements, log parameters, geological attributes, and hydraulic units, to distribute lithofacies and permeability in uncored wells across large fields. As a member of a reservoir management team, worked with other geologists and engineers integrating petrophysical parameters, geologic interpretation, and production data to construct reservoir models for reservoir simulation and characterization studies. Additional responsibilities included reservoir parameter mapping, and petrophysical analysis for property/acquisition evaluations. Prepared and conducted training sessions for clients in basic petrophysical analysis. Training sessions covered all phases of basic log evaluation, from initial data acquisition to the integration of petrophysical parameters for reservoir simulation studies. Prepared detailed reports and conducted presentations to clients.

Independent Consulting Geologist

Provided technical assistance to companies in evaluating both domestic and foreign reserves. Worked with engineers in detailed log evaluation, reservoir parameter mapping, and data preparation for reservoir modeling.

NERCO Oil & Gas, Inc.

Staff Geologist. Worked as a member of a reservoir management team, with experience in all phases of reservoir development and evaluations. Participated in simulation studies on major producing properties. Responsible for structural and stratigraphic interpretations, detailed petrophysical analyses, reservoir parameter mapping, and reservoir volumetric determinations. One simulation study (100+ wells, 20 % company's NPV) helped to maximize recoveries through the development of a more efficient depletion plan, and identification of potentially bypassed hydrocarbons; resulting in reserve adds and an increase in the field's profitability. Additional responsibilities included the review and determination of corporate reserves. Responsible for petrophysical evaluations and mapping in assigned fields. Coordinated open hole logging requirements with logging companies. Supervised wellsite geologists during drilling, coring, and logging operations. Participated in formulating development plans on producing properties by providing recompletion recommendations, and identifying infill, offset, and deeper pool prospects. In one case, evaluations resulted in drilling three development wells that increased a field's production by 28%. Participated on in-house field studies for newly acquired properties. Earned a reputation for finishing studies within short deadlines, which assisted engineers in quickly

understanding and identifying efficient depletion methods for the reservoirs. Provided log analysis support, collected data, and prepared geologic operations reports used by senior management to plan daily operations. Interfaced between senior management and district operations to ensure compliance with management targets.

Ramas, Inc.

Consulting Geologist. Provided on-site geological supervision for major and independent petroleum companies throughout the Rocky Mountain region. Supervised testing, coring, and open hole logging operations. Developed experience in operations geology, and the ability to work in a variety of geologic basins/depositional environments. Well-site geologist for all wells drilled at ARCO's Sheep Mountain CO₂ Project between 1982 and 1986. Earned a reputation for dependability and establishing good working relationships both in the field and office. Developed experience that helped to reduce drilling costs and improve productivity.

Fields/Areas Worked:

Bolivia: Monteagudo, and Paloma Fields

Brazil: Carauna Field, Espiritu Santo Exploration Area, and other oil and gas properties

Chile: Daniel Este, Dungeness, Wallis, and Spiteful Fields

Colombia: Orito, Catalina, and Guaduas Fields

Egypt: Geisum, SWS, and Zeit Bay Fields

Kuwait: Abduliyah, Ahmadi, Burgan, Dharif, Magwa, Minagish, and Umm Gudair Fields

Mexico: Mata Pionche Field

Pakistan: Mari Field

Venezuela: Barua, and Lamar Fields

US – Rocky Mtn. Region: Williston Basin, Denver–Julesburg Basin, and numerous other basins and interbasin areas throughout the Rocky Mountain region.

US – Southeast: Black Lake Field, La.; and Trimble Field, Ms.

US – Gulf Coast: Various blocks in Federal OCS waters

Technical Skills:

GeoFrame, Prizm, Western Atlas Well Data System (WDS), QLA2, GeoGraphix, various proprietary programs. Microsoft Excel, Lotus 1-2-3, Microsoft Word, UltraEdit, and Microsoft PowerPoint

Education:

BS in Geology, 1980. University of Florida

BA in Anthropology, 1977. University of Florida