

## JCORET Course details

### 1. Author name & email contact information

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### 2. Brief author biography

Chairman/CEO – Serves in the role of Chief Executive Officer of Subsurface Consultants & Associates, LLC (SCA), which is an international petroleum consultancy and training firm. SCA is a client-focused firm that offers specialized solutions in consulting and training. Our experienced, well-trained staff has worked in over 40 countries. From our headquarters in Houston, Texas, SCA's expertise reaches around the world from Kazakhstan to Indonesia, from the Canadian Rockies to the southern regions of South America.

As a working geoscientist, Mr. Tearpock has generated numerous exploration and exploitation prospects, either as the sole generator or as part of an organized multidisciplinary team. He is the co-author of three textbooks, "Applied Subsurface Geological Mapping" (1991) ©, "Quick Look Techniques For Prospect Evaluations" (1994) © and "Applied Subsurface Geological Mapping With Structural Methods" (2003) ©, and numerous technical articles. Mr. Tearpock was a finalist in 1996 and 1998 for the Ernst & Young Entrepreneur of the Year program and in 1998 received the Distinguished Service Award from Bloomsburg University, Bloomsburg, PA. He holds a bachelors degree in Geology from Bloomsburg University, 1970; and a masters in Geology from Temple University, 1977. He is a (AAPG/DPA) Certified Petroleum Geologist No. 4114, State of Texas Licensed Geologist No. 2660 and (SIPES) Certified Earth Scientist No. 3015.

Mr. Tearpock is a member of numerous associations including the AAPG, SPE, SIPES, SEG, GSA, HGS, EAGE, NOGS, LGS, IPA & PESGB. He is the President-Elect of the AAPG's Division of Professional Affairs (09-10). He is a founding member and Vice-Chairman (09-10) of the intersociety "Joint Committee on Reserves Evaluator Training" (JCORET). The member societies represented on JCORET include the AAPG, SPE, SPEE and WPC.

### 3. Course Title and abstract:

Petroleum Resources and Reserves: Avoiding Writedowns – An Overview of Recommended Geological Practices.

Reserves and resources are major factors in the valuation of energy companies. From evaluating fields to buy, to determining whether or not to participate in a certain prospect; from estimating the resources and reserves for a new discovery to determining the proved reserves for a company, the bottom line is "how much oil or gas can ultimately be recovered and what can be placed on the books and produced with an acceptable return on investment". There are many challenges in estimating resources and reserves. Our challenge relates to the fact that resources and reserves determinations require a multidisciplinary approach including both geoscience and

engineering. This course will present geological methods and techniques, and more specifically concentrate on the structural, net pay and geometric considerations for a Deterministic Estimation of Reservoir Rock volume.

The starting point of most resources or reserves estimates is the estimate of the size of the container and the volume of hydrocarbons In-Place. This course covers a variety of important recommended geoscience methods and techniques to obtain accurate results.

In December 2008, the Securities and Exchange Commission (SEC) released their new disclosure rules for oil and gas. The effective date for these new rules is January 1, 2010.

With the new rules, a company can derive two different types of reserves estimates (deterministic and probabilistic). This course presents an overview of a variety of geoscience techniques used to derive a deterministic estimate for In-Place oil and gas resources and reserves. Course content:

- General Introduction – Reserves vs Resources
- Mapping surfaces – Structure maps, reservoir top and base of porosity maps
- Mapping of trapping faults (geology/geophysics)
- Down-dip limits in vertically stratified reservoir(s)
- Net sand and net pay
- Wedge zones (water, hydrocarbon and fault)
- Thickness determinations in deviated wells and dipping beds
- Net-to-gross ratios
- Isochore maps (volume determinations for bottom and edge water reservoirs)

#### **4. Who should take the course:**

Geologists, geophysicists, engineers, support staff, supervisors, managers, resources or reserves evaluators, financial analysts, investors, bankers or any one who needs to understand the general geological recommended methods to estimate resources and reserves.

#### **5. Course duration:** 1 or 2 full days.

The one (1) day course can be expanded into a two (2) day course.

The two (2) day course includes a series of exercises in the application of the recommended geological practices.

#### **6. Cost (including \$20 JCORET fee)**

Varies with location and client. Cost for in-house courses is negotiated on an individual basis.

#### **7. Scheduled dates for course presentation**

To be determined.

**8. How to contact author to schedule course(s)**

Via email or by contacting Matilde Geren at SCA 713-789-2444 or SCA's Training Department at [training@scacompanies.com](mailto:training@scacompanies.com).