



# San Joaquin Geological Society

**Date:** Tuesday, October 8, 2019

**Time:** 6:00 PM Social Hour  
7:00 PM Dinner  
8:00 PM Lecture

**Place:** American Legion Hall  
2020 H Street, Bakersfield, CA 93302

**PSAAPG Members**  
\$30 with reservation  
\$35 without reservation

**Non PSAAPG Members**  
\$35 with reservation

**Full-time Students with ID:**  
\$15

**\* RSVP \***

**By: noon Monday,  
October 7, 2019**

Register online:  
<http://www.SanJoaquinGeologicalSociety.org/>

Pay online or at the door

**SJGS WEBSITE**

<http://www.SanJoaquinGeologicalSociety.org/>

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## Algorithmic Fracture and Breccia Identification in Antelope Shale Formation Elk Hills Field, California

### A Practical Approach to Quickly Integrate Image Analysis into Completion Decisions using Image Analytics

**Presented by: Robert H Gales, Petrophysics Manager**

**Abstract:** The Elk Hills Monterey is complex in structure, lithology and reservoir characteristics. A complex fracture system that is dependent on lithology, bed thickness and structural placement impacts production. It is no surprise reservoir quality and fracture intensity drive production.

California Resources had an extensive image data base for structure and fractures, however a detailed analysis was completed on a fraction of the wells due to time constraints. An image analytics approach was created to allow for quick analysis of image logs to provide a fracture intensity indicator incorporated into the original completion design and added information for workover review.

**Biography:** Robert Gales has over 25 years in the oil and gas industry working on projects in several countries with emphasis on reservoir oriented production challenges and subsurface data integration of logs, core, mudlogs and production data to reduce reservoir uncertainty. Robert has worked on conventional and unconventional reservoirs including tight gas sands, coalbed methane, heavy oil and shale plays.

See Robert's full abstract on our website!

<http://sanjoaquingeologicalsociety.org/meetings/current-abstract/>

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