



Technical Tour Saturday, 25 June 2016

The Ocean Star
Drilling Rig Museum

Earlier versions of this tour planned also to include Wiess Energy Hall at the Houston Museum of Natural Science, but the Hall will be closed for renovations at the time of the ARMA Symposium.

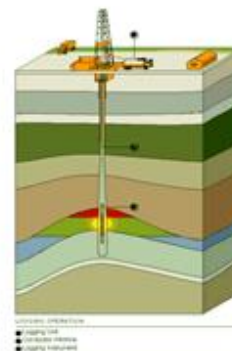
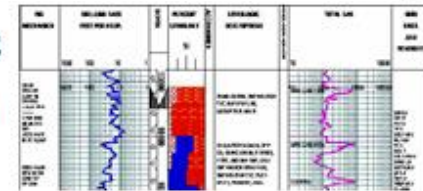
We will begin our tour at the Westin Galleria with a “chalk talk” providing background for what participants will see later in the day.

Doc Leon will review the elements of well construction and the drilling equipment and materials used to construct and oil and gas well. Much of that equipment will be on display at the Ocean Star. Jeff Bami will discuss formation evaluation. He will address not just the techniques available to evaluate oil and gas presence in the open hole reservoir interval, but focus on the identification of geohazards in the overburden above the reservoir interval while the well is being drilled.



Selected Evaluation Methods

Mud Logging and LWD/MWD



Electric logging



Coring

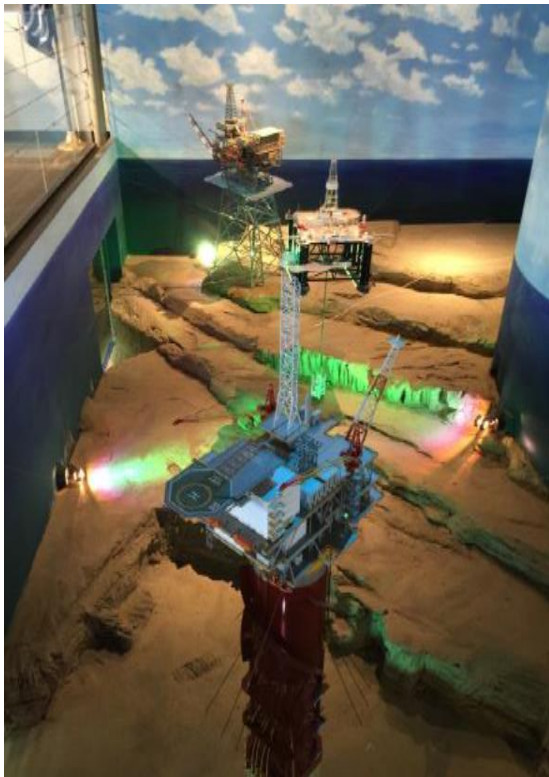
Drill Stem Testing (DST)



We will then board the bus and drive to Galveston, where we will tour the retired jackup drilling rig *Ocean Star*. Box lunches will be provided for en route enjoyment.

The Ocean Star Drilling Rig Museum

The museum features three floors of models and interactive displays illustrating the story of offshore oil and gas from seismic technology to exploration and production. Scale models of production platforms, actual drill bits and remotely-operated vehicles (ROVs) as well as videos and exhibits explain drilling, geology, seismic, well servicing and production. Visitors can take the skywalk out onto the drill floor of the rig, or visit the exhibits on the pipe deck from the first floor of the museum.



Guides for the tour:



Leon Robinson

After receiving a PhD in Engineering Physics from N.C. State University, Leon Robinson spent 39 years in research with Humble/Esso/Exxon. He had the opportunity to make contributions in many technology areas, such as: mud cleaners, explosive drilling, drilling data telemetry, subsurface rock mechanics, drilling and hydraulic optimization techniques, tertiary oil recovery, on-site drilling workshops, world-wide drilling fluid seminars, and rig site consultation. This work resulted in 34 US patents and 24 international patents.

Some of the awards he received included the 1984 IADC Special Recognition Award, the 1985 Society of Petroleum Engineers (SPE) Drilling Engineering Award, the 1999 American Association Drilling Engineering(AADE) Meritorious Service Award, in 2006 was in the first group inducted into the AADE Hall of Fame, in Sept. 2008, one of the first five recognized by SPE as a "Drilling Legend", and in November 2013 awarded the IADC Exemplary Service Award.

Since retiring from Exxon Production Research, he has remained active working with the SPE, API, AADE, ASME, IADC and consulting on drilling activities. He was a member of the drilling advisory panel for the Houston Museum Energy Exhibit, and a volunteer docent for the jack-up "Ocean Star" Museum in Galveston. For the past 23 years, Dr. Robinson has been a PetroSkills Drilling Instructor, and is currently Chairman of the API Task Group editing API RP 13C (Solids Control and Shaker Screen Designation), a member of API Task Groups on Drilling Fluids and Hydraulics, a member of the 2016 AADE National Drilling Fluids Conference Committee, and Chairman of the IADC Technical Publications Committee [writing a Drilling Encyclopedia] Five books have been published already.



Jeff Brami

After serving in Vietnam in 1968-1969 as a Recon Marine, Jeff went to the University of South Florida on the GI Bill, graduating in 1975 with a Bachelor's Degree in geology. He worked initially as a mining geologist before moving into the oil business, joining Exxon in Houston in 1978. His first assignment was in Kuala Lumpur, Malaysia followed by an assignment in Tokyo returning to the US after six years in the Far East.

He first worked for Exxon as a wellsite geologist and later as a prospect geologist. Over the course of his 31 year career with Exxon Mobil he worked as a geologist in exploration, production, development and research. His primary job during his career was as an operations geologist - at the interface between geology, drilling and formation evaluation. His experience includes well planning

and evaluation in Malaysia, Japan, the Gulf of Mexico, all over the US onshore, the People's Republic of China in the Tarim Basin as well as offshore in the Bohai Sea, Indonesia, Trinidad & Brazil. His internal consulting expertise was in constant demand in most of the countries around the globe where Exxon Mobil had drilling operations.

In addition to his busy job with Exxon, he served as President of the International MWD Society as well as on many committees for the SPE (Society of Petroleum Engineers), SPWLA (Society of Professional Well Log Analysts) and the AAPG (American Association of Petroleum Geologists). He received numerous awards from the SPWLA as well as traveling as a distinguished lecturer both in the US and internationally. He testified before the US Justice Department as an expert witness as well as in one case for the State of Texas.

He and his wife Tonya returned from Russia in 2014 where she was worked as a geologist for Exxon Mobil Russia.