SPWLA

Japan Chapter Newsletter Vol. 3 No.1 January 1997

Happy New Year to all members

We would like to wish all our members a very Happy New Year.

The past three years have been a huge success thanks to your support. We hope to look forward to more of the same in the future.

Call for Nomination of the Board Member '97-'98

Current board members assigned to start up SPWLA Japan Chapter has now been serving the society for three years. We feel it is time to elect some other members to the board - starting '97 - '98 Annual period. If you have anyone you would like to recommend or if you would like to volunteer to hold office, please address your suggestions to SPWLA Secretary at the following contact:

Toru Toda
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WWW Home Page of SPWLA/J

We are pleased to announce that SPWLA/J WWW Home Page officially opens on January 13, 1997 at MAJIC site. This temporary home page is sponsored by four Schlumberger Oil Field Service Group (Wireline & Testing, GeoQuest, Dowell, Anadrill) and OMNES. Access can be made using GeoQuest User support account via PSTN 28.8. All detailed information will be distributed during the next Chapter Meeting scheduled for January 27, 1997. Any questions may be directed to Mr Tomizawa of GeoQuest or Mr Matsuda of OMNES via telephone/facsimile or E_mail.

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About the Speaker

Jean-Rmy OLESEN is Interpretation Development Manager, Schlumberger China S.A., based in Beijing, P.R.C. Jean-Rmy graduated from the Federal Institute of Technology, Lausanne, Switzerland, in 1971 with a master's degree in electrical engineering. He joined Schlumberger in 1974. After numerous overseas field and staff assignments, Jean-Rmy specialized in petrophysics and spent part of his career in Schlumberger's Houston Engineering Center, involved in the developments of major recent nuclear logging devices. He holds several patents in the field of nuclear logging and is a member of SPWLA and SPE.

['94 -'95 Annual schedule of chapter meeting]

DATE	**VENUE**
May 23, 1994	*Japan National Oil Corporation*
July 25, 1994	*Japan Petroleum Exploration Co.,Ltd*
September 27, 1994	*Japan Oil Engineering Co.,Ltd*
November 29, 1994	*Technical Research Center, Teikoku Oil Co.,Ltd*
January 23, 1995	*Indonesia Petroleum, Inc.*
March 13, 1995	*Waseda University*
May 29, 1995	*Japan Oil Development Co.,Ltd*
September 21-22, 1995	*Technology Research Center, Japan National Oil Corporation*

['95 -'96 Annual schedule of chapter meeting]

DATE	**VENUE**
November 27, 1995	*Idemitsu Oil Development Co.,Ltd*
January 29, 1996	*Geothermal Energy R& D Co.,Ltd*
March 26, 1996	*Arabian Oil Co.,Ltd*
May 27, 1996	*Japan Petroleum Exploration Co.,Ltd*
September 26-27, 1996	*Technology Research Center, Japan National Oil Corporation*
November 25, 1996	*Technical Research Center, Teikoku Oil Co.,Ltd*

['96 - '97 Annual schedule of chapter meeting]

DATE	**VENUE**
November 25, 1996	*Technical Research Center, Teikoku Oil Co.,Ltd*
January 27, 1997	**Indonesia Petroleum Exploration Co.,Ltd**

Invitation to 14th Chapter Meeting

We would like to announce that the forthcoming chapter meeting will be held as follows.

Venue **Indonesia Petroleum ~~Exploration Co~~.,Ltd**
Ebisu NeoNard, 4-1-18, Ebisu, Sibuya-ku, Tokyo

Date On **Monday, January 27, 1997**

Program

16:00 RESIDUAL OIL SATURATION EVALUATION IN WATER FLOODED FIELDS UNDER VARIABLE WATER RESISTIVITIES

by Jean-Rmy OLESEN (Distinguished Speaker of SPWLA)

17:30 Snacks Buffet

About the topics

Over the past 30 years, many of the Eastern Chinese Oilfields have been under waterflooding EOR programs. In these fields, connate water salinity is low, usually below 20 parts per thousand. Furthermore, the flood water is very fresh, its salinity varying with the amount of connate water mixed to surface water in the flooding scheme. As a result, formation water salinity, while low, is continuously varying.

Calcite streaks and variable levels of shaliness of the sandstone reservoirs, along with deposits of heavy oil residue on the inner casing wall of producers, also combine to make saturation evaluation with conventional pulsed neutron capture (PNC) and pulsed neutron spectroscopy (PNS) devices extremely difficult and more qualitative than quantitative. Even open hole saturation evaluation in newly drilled wells is made very unreliable by the variable and unpredictable salinity of the formation water.

In order to efficiently manage the water flood EOR program and maximize oil recovery, it is essential to know the water flood sweep efficiency, residual field oil saturation, and pinpoint zones bypassed by the recovery scheme.

To achieve the above and meet its goals to maintain production at the present level in the most cost efficient manner, the Shengli Oilfield has turned to new wireline logging technology and evaluation methods. A through-tubing PNS device, recently introduced in China, provides many features lacking in conventional PNS devices. Its unsurpassed statistical precision together with its high accuracy independent of lithology variations, as well as its through-tubing capabilities and its borehole compensated saturation measurement, make this device well suited for quantitative evaluation of the residual hydrocarbon saturation.

The benefits described above are illustrated by field data. The Shengli Oilfield has combined data sets obtained in injectors as well as producers in order to refine their field saturation map and pinpoint bypassed hydrocarbon zones. A novel technique is also described, combining open hole resistivity data with through casing PNS data, to continuously evaluate the formation water salinity, and, in cases where both connate and flood water salinities are known, to compute a flood index.