



SPWLA

Houston Chapter News

March 2008 LUNCHEON MEETINGS

President

FURMAN KELLEY
Halliburton
10200 Bellaire Blvd, 1SE14f
Houston, TX 77072-5206
Office: 281-575-4044
furman.kelley@halliburton.com

Vice President - Westside

JOSE G. SILVA
Techsia Inc.
Houston, TX 77042
Office: 713-260-9686
jose.silva@techsia.com

Vice President - Greenspoint

DEAN JACKSON
Baker Atlas
17015 Aldine Westfield
Houston, TX 77073
Office: 713-625-6846
dean.jackson@bakerhughes.com

Vice President - Downtown

JOE COMISKY
Apache Corporation
99 North Post Oak Ln. #6305
Houston, TX 77024
Office: 713-296-6286
joe.comisky@usa.apachecorp.com

Treasurer

PAUL CONNOLLY
EOG Resources
333 Clay Street, Suite 4200
Houston, TX 77002
Office: 713-651-6700
paul_connolly@eogresources.com

Secretary

SCOTT O'BEIRNE
@Balance
11767 Katy Freeway
Houston, TX 77079
Office: 281-558-3182
scott.o'beirne@atbalance.com

Editor

DON HARTMAN
Devon Energy
1200 Smith, Suite 3300
Houston, TX 77210-4616
Office: 713-286-5842
don.hartman@dvn.com

Associate Editor

LINDA MURDOCK
Knowledge Systems, Inc.
One Sugar Creek Center Blvd #1100
Sugar Land, TX 77478
Office: 281-243-4345
murdock@knowsys.com

Webmaster

JEFF ALFORD
Schlumberger
1325 Dairy Ashford
Houston, TX 77077
Office: 281-285-4938
webmaster@spwla-houston.org
<http://www.spwla.org>

Westside

BP Plaza
Wednesday, March 12

Imaging of a subsurface conductivity distribution using a time-domain electromagnetic borehole conveyed logging tool

by Erik Banning, PhD

Greenspoint

Halliburton
Wednesday, March 19

Reducing Completion Failure Risk in the Slim Hole World Using FPWD Tools

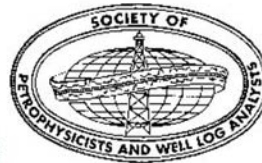
by David Schaper

Downtown

Hess Office
Tuesday, March 18

Productivity Prediction in Gas Sands through Effective Integration of NMR, Resistivity and Proosity Log Data

by Scott Jacobsen



Folks,

Having served on the board of directors in the Houston Chapter of SPWLA for the past 3 years, I can honestly say it has been one of the more memorable experiences of my oilfield career. I have witnessed the introduction of our new web site and the 1st annual Houston SPWLA golf tournament. I have also met and made many new friends, some of which I'm sure will keep in touch in the years ahead. I have also been privileged to work with a great board of directors and enthusiastic membership as we launch our efforts to host the 2009 Annual Symposium here in The Woodlands (thanks to Hani for accepting the role of General Chair). In spite of all the fun I'm having, I must now move out of the Houston area. Halliburton has asked that I transfer to Colorado in the coming weeks. In accordance with our SPWLA bylaws, the business area VP (downtown) is my successor as president of the Chapter. Joe Comisky has agreed to accept this responsibility for the remainder of my term. You are in good hands! As I get ready to move, I must thank all of you I have had the pleasure of meeting and working with. Our new board members this year, Joe Comisky, Dean Jackson, Jeff Alford, and Jose Silva, are all doing outstanding work. They have maintained or grown the level of attendance in each of their respective areas. I owe a special thanks to Paul Connolly, Don Hartman, Scott O'Beirne, Brian Driskill, and Ken Kemp. Over the past several years, they have been the glue in our organization and have each helped me learn the SPWLA processes. I will miss working directly with all of you. Please keep in touch. My email address at Halliburton will remain the same.

As a reminder, I would like once again to bring attention to the upcoming elections for next year's Houston chapter board of directors. This year, we will be accepting nominations for office through March 31, sending out electronic ballots by April 15, and reporting back to the membership with results on May 21 at the annual Spring Topical Conference. Please discuss opportunities to serve this chapter either on the board or on the 2009 Conference team with any of the current board members.

Furman Kelley
Houston Chapter President



**Erle was
fiercely independent.**

**At Halliburton
we still are.**

Erle Halliburton built his service company from scratch. He couldn't be bought. He couldn't be discouraged. And the rest is history. But the key to Erle's success was the repeat business of the many independents he served. Halliburton crews would travel any distance and get the job done right. Customer satisfaction was everything. And America's independents weren't disappointed. Though Erle's long gone, he's well represented by the independent-minded people who work here today. If you need us, just call. No job is too big, small, conventional or complex.

Halliburton has the energy to help. To find out how, visit us at www.halliburton.com.

HALLIBURTON

Unleash the energy.™



© 2006 Halliburton. All rights reserved.



Westside Luncheon Meeting

Imaging of a subsurface conductivity distribution using a time-domain electromagnetic borehole conveyed logging tool

by

Erik Banning, PhD

Date:	Wednesday March 12	Place:	BP Plaza Conference room next to the Cafeteria. Westlake 4 200 Westlake Park Blvd.	Reservations:	Email: jose.silva@techsia.com
Time	Lunch: 11:30 am Talk: 12:00 Noon	Price:	Purchase lunch in cafeteria and bring to adjacent conference room.	Parking	BP Plaza Garage
Special Instructions	Everyone MUST sign in AND out at the Lobby Security desk! After receiving security badge, get your lunch and come to the 3rd floor. Follow the SPWLA signs to the conference room.				

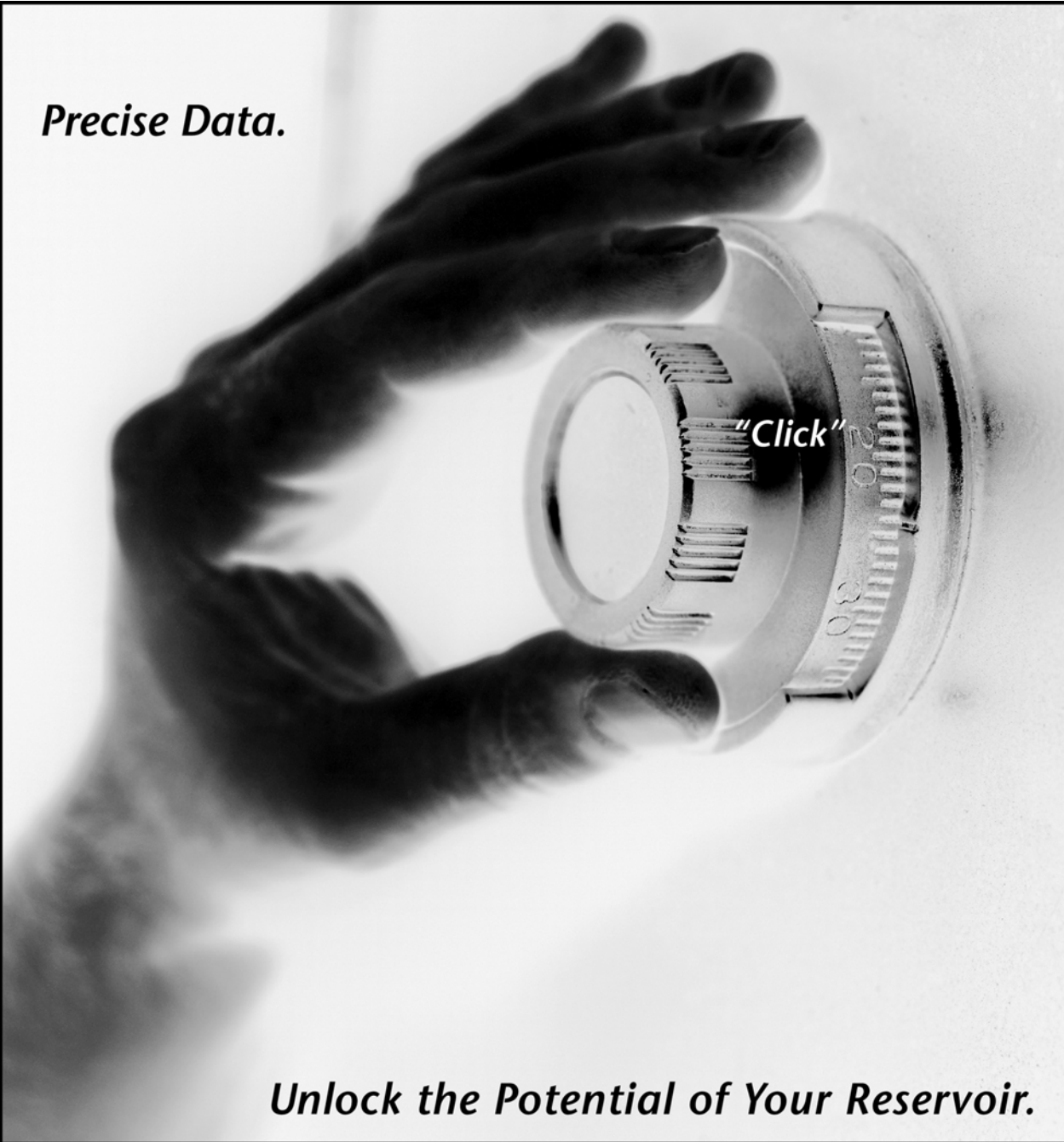
Abstract:

This talk, presented at the 2007 SEG, discusses the application of Time-domain ElectroMagnetics (TEM) in a borehole-conveyed logging tool. Defining concepts like apparent conductivity, apparent dip and apparent azimuth, we show that such a tool may be used to image the conductivity distribution around and ahead of the drill bit at comparatively large distances from the borehole. As such, a TEM tool would be instrumental in optimal placement of a well in a hydrocarbon reservoir.

Biography:

Erik Banning is employed by Shell as a senior researcher and is leading the Shell side of the TEM project, which is part of a JDA between Eni and Shell. With a PhD and an MSc in theoretical physics from the University of Twente (Netherlands), Erik has spent most of his 11-year Shell career on projects dealing with electromagnetics in petrophysical settings. In addition, he has worked as a petrophysicist on several projects dealing with Shallow Water Flow and Geohazard issues.

Precise Data.



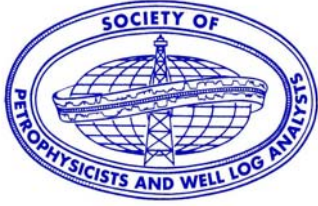
Unlock the Potential of Your Reservoir.

Today's reservoirs are more challenging than ever. To unlock their potential requires absolutely precise data. OMNI Laboratories has established higher standards, more thorough protocols, and meticulous quality control measures to ensure unsurpassed accuracy. Plus, we have assembled the finest scientists in the field to provide superior interpretation and analysis. When precise data is paramount, choose OMNI Laboratories.

At OMNI, We've Got the Answers.



13 LOCATIONS IN THE U.S., CANADA AND SOUTH AMERICA • HEADQUARTERS: HOUSTON, TX • 832-237-4000 • WWW.OMNILABS.COM



Greenspoint Luncheon Meeting

Reducing Completion Failure Risk in the Slim Hole World Using FPWD Tools

by

David Schaper

Date:	Wednesday March 19	Place:	Halliburton Patio Cafe, Bldg D 3000 N. Sam Houston Pkwy East	Reservations	none required
Time	Lunch: 11:30 am Talk: 12:00 Noon	Price:	Select food and pay (typically \$3-6)	Parking	Enter Halliburton, proceed to the "T" just past Bldg A, turn right to park.

Abstract

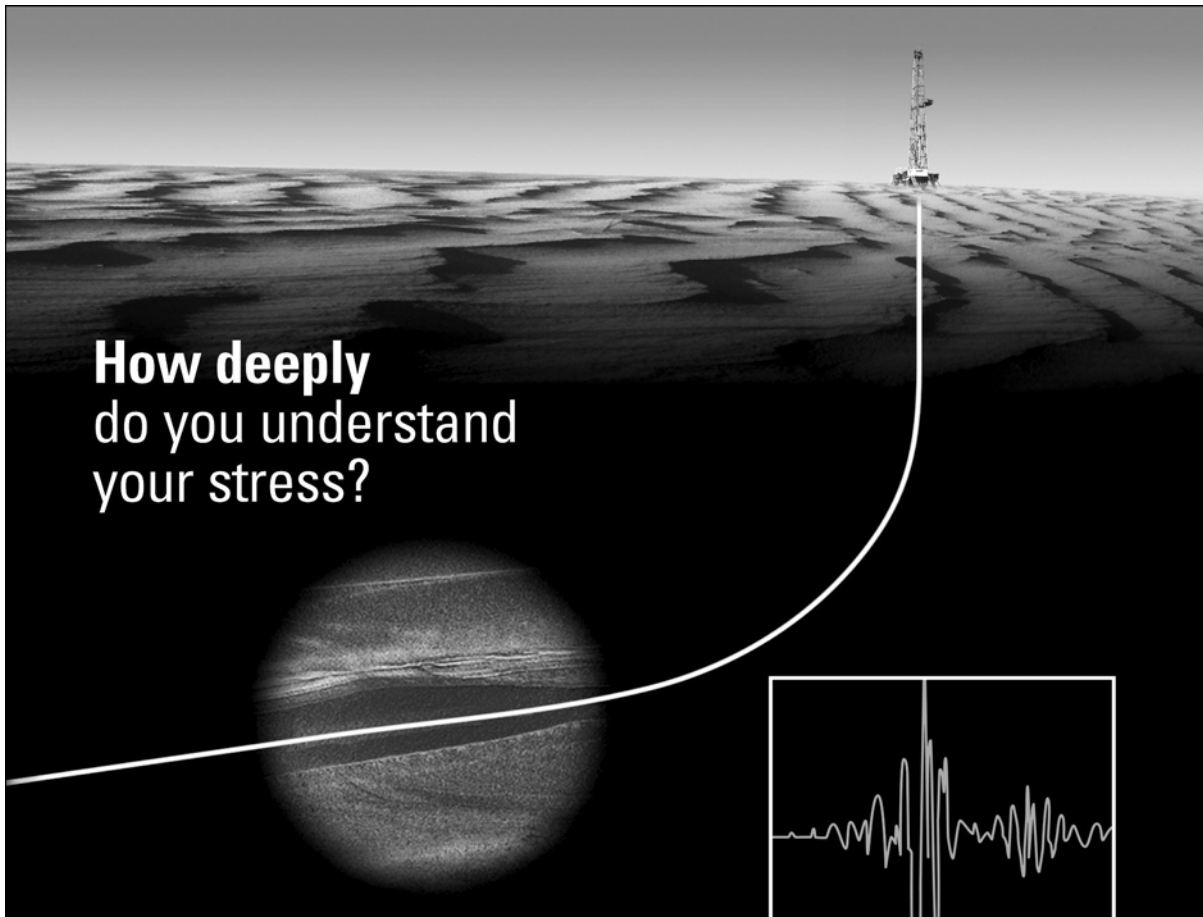
Shell continues to push the LWD slim hole envelope at its Gulf of Mexico Brutus field with world firsts by running Sperry Sun's 4 3/4" GeoTap FPWD (Formation Pressure While Drilling) and Rotary Steerable tools. Developing slim hole technology is critical in fields such as Brutus with only an eight slot TLP and field redevelopment limited primarily to a slim hole (5 1/2" casing) environment. In addition, acquiring pressures to identify differentially depleted layers in completion intervals is critical to completion integrity. Acquiring formation pressures while drilling has become the method of choice to acquire pressures in highly depleted sands while minimizing borehole exposure and cost by eliminating wire line runs and wiper trips. This talk will highlight both field development applications of FPWD technology along with insights to improve operational performance.

The GeoTap/Quad combination was used on four wells at Brutus. In the A-3 well, with 6000 psi overbalance, 11 pressures were acquired to identify a differentially depleted layer within the J2 interval. Data acquired was used to modify the completion interval to reduce the failure risk associated with differential depletion. The well was cased and completed with no issues and has performed above expectations. In the A-7 wells FPWD/Quad evaluation strings were run and fifteen pressures were acquired. No differential depletion was observed and the entire zone was completed and is producing as expected. The A-5ST3 well was also drilled and evaluated with an FPWD/Quad and 20 pressures were acquired. Formation pressure data while drilling was used to modify mud weights, evaluate zones for possible uphole recompletions, and confirm the presence of differential depletion. As with the A-3 well, the FPWD data was used to modify the completion interval and the well has performed above expectations.

Over the course of four slimhole FPWD runs at Brutus, numerous advancements in operational procedures have been implemented. These include the use of three versus two drawdowns to reduce or eliminate minor supercharging, along with monitoring the difference between pumps-on versus pumps-off pressure acquisition, which indicated a difference of less than one psi in Brutus type (half-Darcy to Darcy unconsolidated Plio-Pliocene) sands. This knowledge enabled the team to acquire high quality data, reduce the risk of sticking the BHA, and increase hole cleaning while continuously circulating.

Biography

David Schaper is a Petrophysical Engineer at Shell Exploration and Production Company in New Orleans, LA. He earned a B.S. in Geology and Geophysics in 1999 from the University of Wisconsin-Milwaukee and a M.S. in Geological Engineering from the University of Wisconsin-Madison in 2002, joining Shell shortly after graduating. He is currently a petrophysical engineer for a number of Shell's subsea fields, specializing in operational petrophysics. He is a SPWLA Distinguished Speaker for 2007-2008 and also serves as President of the New Orleans SPWLA chapter.



**How deeply
do you understand
your stress?**

The new Sonic Scanner* acoustic scanning platform enables accurate measurement of the stress-dependent properties of rocks near the wellbore. Now you can make advanced acoustic measurements axially, azimuthally, and radially. The Sonic Scanner multiple depths of investigation, excellent waveform quality, and simple presentations all help to reduce the complexity of sonic logging, without compromising the depth of information.

Get the most comprehensive understanding of your rock, improve your fracture planning, sand control, and perforating design. See stress on a whole new level, with an extra dimension.

Understand your reservoir

*Mark of Schlumberger © 2007 Schlumberger. 07-FE-074

Sonic Scanner

www.slb.com/understand

Schlumberger



Downtown Luncheon Meeting

Producibility Prediction in Gas Sands through Effective Integration of NMR, Resistivity and Porosity Log Data

by

Scott Jacobsen

Date:	Tuesday March 18 NOTE DAY CHANGE	Place:	Hess Office One Allen Center 500 Dallas Street	Reservations:	Make reservations as early as possible. Call 713-609-5960 and leave a message for SPWLA Reservations or email at Kkemp@hess.com
Time	Lunch: 11:30 am Talk: 12:00 Noon	Price:	\$15 with reservation	Parking:	Regency Parking at 1100 Smith Allen Center Visitor Garage Various outdoor lots
Special Instructions:	One Allen Center is at the corner of Smith and Dallas. The Hess lobby is on the second level adjacent to the Smith Street entrance. You will need to check in through Security. Please arrive prior to 11:30 am to allow time to check in and get to the meeting room. There are numerous parking places in the area, a few of which are listed above.				

Abstract

In the bulk of the mature gas reservoirs in the U.S., effective completion techniques rely on accurate evaluation of not only gas volumes in place in the reservoir but also whether subsequent stimulation will result in water production, and in what proportion to the gas production. This evaluation has traditionally centered on calculations of porosity and water saturation.

However, water saturation is a static assessment of reservoir fluids in place, and not necessarily an indicator of which of these fluids will be produced, except at the extremes of the water saturation spectrum.

An interpretation workflow has been investigated which integrates resistivity, NMR, and porosity log data to enhance traditional formation evaluation to provide a prediction of hydrocarbon and water production percentages throughout the entire logged interval for the initial production of the well. It is displayed as a flow profile that provides, essentially, a pre-completion open-hole production log. This can then be compared to later cased-hole production logs to assess stimulation effectiveness and influence re-completion decisions. It also provides the parameters needed for reservoir simulation of the future production history of the well.

The technique has been used in several gas (and oil) reservoirs in both US land and offshore environments. The analysis is produced efficiently and in time for operators to make completion decisions based on the information.

Biography

Scott Jacobsen is a Petrophysical Advisor with Schlumberger Oilfield Services. He began his career in 1975 as a wireline field engineer and has held a number of technical and interpretation development positions since, working in the U.S., the Middle East, and Europe. He is currently working as Wireline Petrophysics Domain Champion for the US Land Geomarkets. He holds a BS E.E. degree from the University of Notre Dame and a BS in Electronics Technology from Northern Illinois University.

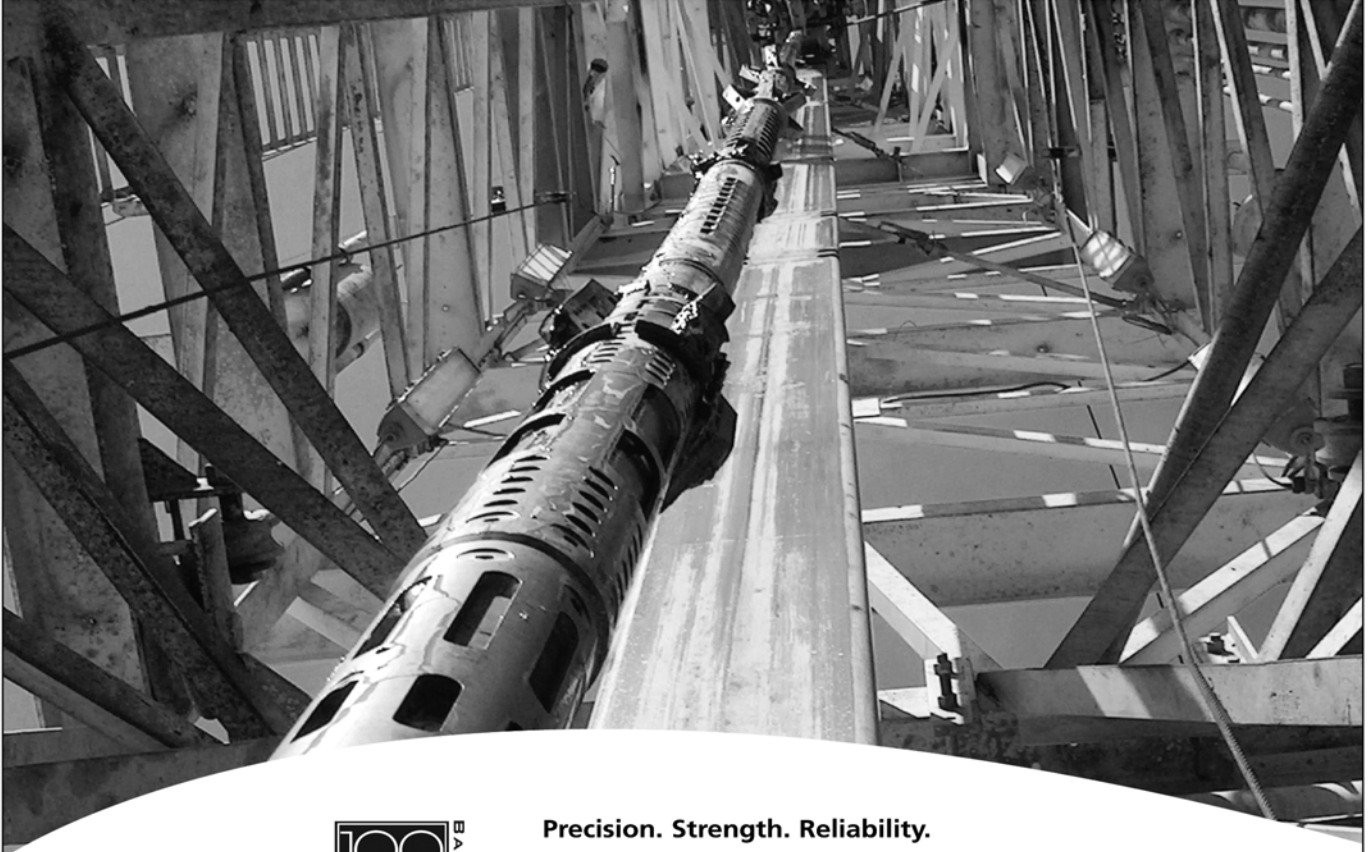
Co-authors:

Dale May: Schlumberger Oilfield Services, Houston, TX

Jeff Grant: Schlumberger Oilfield Services, Houston, TX

Jeff Little: Schlumberger Oilfield Services, Bakersfield, CA

How did we make the Best – Better?



Fast, one-pass acoustic

Precision. Strength. Reliability.

The XMACSM F1 high-performance acoustic logging service from Baker Atlas is not only the most accurate in the industry – but now logs even faster.

Only one logging pass is needed to acquire monopole, dipole and cross-dipole data – and depth corrections between runs are not required.

And with a compressional strength of 45,000 pounds, we can log even your most complex wells pipe conveyed.

You can better evaluate your reservoir, reduce your risk and maximize your hydrocarbon recovery while saving valuable rig time by choosing the best acoustic logging service in the industry – XMAC F1.



Baker Atlas

The BEST Choice

For more information, visit our website www.bakerhughes.com
© 2007 Baker Hughes Incorporated. ATL-06-10474

**Real-time
fluid analysis,
clean PVT samples.**

MRILabSM service uses magnetic resonance imaging to distinguish between oil-based mud filtrate and native crude. And it gives you real-time, laboratory-quality estimates of your crude's viscosity and gas/oil ratio. You get the measurements in minutes, while the **RD**TTM assembly is downhole.

Halliburton has the energy to help.

Call your representative about running the new

MRILab service with RD

www.halliburton.com.

*Unleash the energy.*TM



HALLIBURTON
Production Optimization

© 2005 Halliburton. All rights reserved.

Our focus is Client Satisfaction!



**And our ISO 9001:2000
Quality Management System
Proves It!**

As the recognized leader in core analysis and formation characterization, Core Lab's Houston Advanced Technology Center is pleased to announce that our Quality Management System has been ISO 9001:2000 certified. Our laboratory provides state of the art measurements with unmatched quality control and equipment calibration standards.

At Core Lab every job concludes with a customer feedback survey. We are constantly working to enhance customer satisfaction and continue to improve our performance.



Core Lab
RESERVOIR OPTIMIZATION
ISO 9001:2000

No one has more customer focused core and reservoir fluid based solutions for optimizing your reservoir.

To learn about our customer focused Quality Management System, please contact Core Lab.
(713) 328-2673 psinfo@corelab.com

© 2005 Core Laboratories. All rights reserved.



**The World Leader in
Digital Data Conversion
and Management**

- 400,000 Wells in digital format — Over 1,000,000 Logs
- 56,000 Directional Surveys
- 1,300,000 Rasters
- Over 38,000 Gulf of Mexico Wells
- All Gulf of Mexico Logs provided in OTF since 1996 — LWD & Wireline
- Well Log & Map Digitizing using IHS Energy's Proprietary Data Capture System
- Petrophysical Data Processing providing Workstation-Ready Data



IHS ENERGY | Contact us at: 504.581.3282

www.IHSLogNet.com

PathFinder® LWD Sonic Services

Highly reliable, accurate and versatile, the PathFinder LWD Sonic Service provides wireline quality compressional and shear slowness data.

- Standard PathFinder Sonic tools provide real-time compressional and fast shear slowness data.
- Extended measurement e-sonic tools operate at 7 kHz and 15 kHz frequencies to provide slow shear measurements and real-time compressional measurements.

Reliability, Accuracy, Versatility. We Deliver.

For more information contact your local
PathFinder Representative

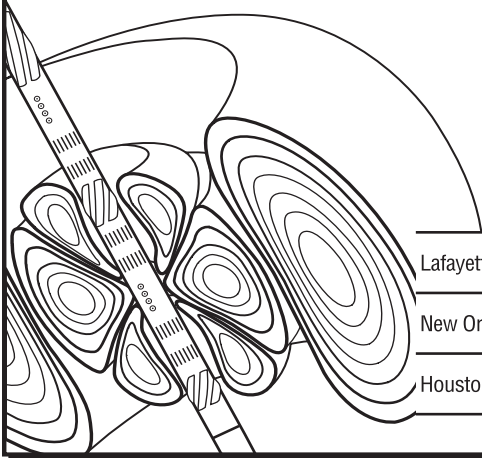
PATHFINDER®

www.pathfinderlwd.com

© 2004 PathFinder Energy Services, Inc. All Rights Reserved

LEADING EDGE FORMATION EVALUATION

- New MPR™ system provides increased resistivity accuracy
- Re-entry services enhance asset value
- Reservoir navigation for optimum horizontal well placement
- Coring services obtain quality formation samples



INTEQ

Lafayette: (318) 856-7201

New Orleans: (504) 525-1197

Houston: (713) 625-4200

Stephen Prenskey

Contract and Freelance Technical Writing

*Specializing in
Petrophysics • Well Logging • Petroleum E&P*

11800 Auth Lane
Silver Spring, MD 20902
USA

301.593.4966
steve@sprensky.com
www.sprensky.com

Technical Training
and Consulting
for the
Energy Industry



SMOLEN ASSOCIATES
JAMES J. SMOLEN

2122 N. Fountain Valley
Missouri City, Texas
U.S.A. 77459-3647

281-438-1141
281-438-8846 FAX
smolen@pdq.net



**Reservoir Evaluation
Dipmeter- Image
Processing and Interpretation**

Website: www.restechinc.com
Contact us at (281) 537-8300



Software Applications & Libraries for:

- LIS
- DLIS
- LAS
- BIT
- Geoshare
- POSC/Epicentre

Consulting Services Available

web: <http://www.oilware.com>
email: info@oilware.com
toll-free: 1-888-OILWARE

9801 Westheimer, Suite 302
Houston, Texas 77042
(713) 523-1950

NMR Petrophysics, Inc.

- Independent NMR Job Planning, Data Processing, QC, Interpretation of all data types, (MRIL, Prime, CMR, CMR Plus), from all service companies.
 - Synthetic NMR from standard logs
 - NMR Training, Log-Core Integration
 - Petrophysical Studies, Integrated Studies
- IN-HOUSE & CUSTOMIZED TRAINING ON NMR JOB PLANNING, QC, PROCESSING & INTERPRETATION**
www.nmrpetrophysics.com

brian@nmrpetrophysics.com

281-468-7755



"Setting The New Service Standard"

Providing:
OPEN HOLE LOGGING Services
to Mid-Continent Areas of
Oklahoma/Arkansas
Kansas and North Texas

Tucker Wireline delivers:

- "One-Run" Stack Technology
- Quality Data in customer formats
- Efficient, Reliable Service
- Web Based delivery of logs

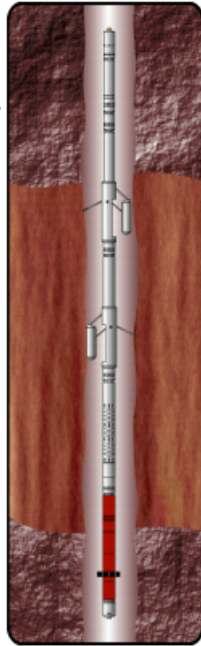
Contact

U.S. Business Development Team
Tucker Wireline Services, U.S.
Houston, Texas

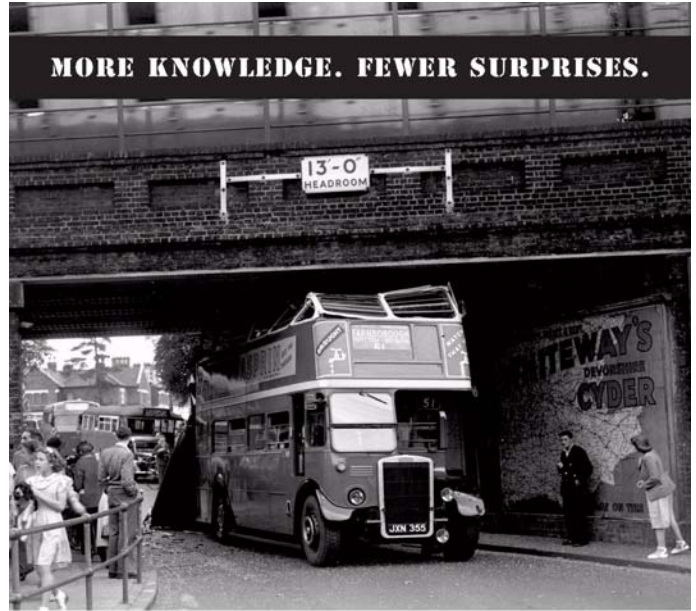
Office: 281-442-9095 ext. 206
Email: infoUSA@TuckerEnergy.com

Tulsa Sales: 918-252-5416, Ext. 141
Tulsa Operations: 918-252-5416, Ext. 160
Oklahoma City Sales: 405-514-0643

www.tuckerwireline.com



Quad Stack
55.1 ft



Avoiding pore pressure problems means improving your pre-drill pore pressure plan – well-to-well and foot-by-foot. Basin-scale modeling with *Drillworks' Presage* software refines your planning and lets you make real-time pressure predictions a thousand feet ahead of the bit. Knowledge Systems helps you drill deeper, faster and safer with fewer surprises. Find out more at la.fewersurprises.com.



Knowledge Systems

la.fewersurprises.com

One Sugar Creek Center Blvd., Suite 1100 Sugar Land, Texas 77478 281-243-4300

© 2006 Knowledge Systems, Inc.

RESERVOIR DESCRIPTION
RESERVOIR ENHANCEMENT
PRODUCTION ENHANCEMENT
RESERVOIR MANAGEMENT

ROCK-BASED PETROPHYSICAL SOLUTIONS

Core Lab offers a unique approach to petrophysical evaluations for even the most challenging reservoir.

- **Deep Water, Deep Shelf**
- **Tight Gas Sands**
- **Gas & Oil Shale**
- **Heavy Oil & EOR**



Pay Recognition Core-Log Data Integration Improved Reservoir Estimates
Completion Recommendations Reservoir Performance Prediction

Answers From The Rocks

Houston (713) 328-2121

www.corelab.com

Highest pressure:

30,440 psi (210 MPa)
LWD world record
Gulf of Mexico, 2006



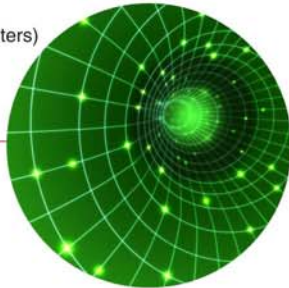
Highest temperature:

379°F (193°C)
LWD world record
North Sea, 2005



Highest dogleg:

61° per 100 feet (33 meters)
LWD world record
Middle East, 2007



Deepest offshore:

34,189 feet (10,421 meters)
Including deepest
LWD data transmission
Gulf of Mexico, 2005



Going to extremes for you

As the world record holder in several **directional drilling services** categories, Weatherford knows that, when it comes to reliability, you have to go to extremes. That's why we build our MWD/LWD and rotary-steerable systems to withstand hostile environments better than the rest.

From routine to extreme, we deliver.

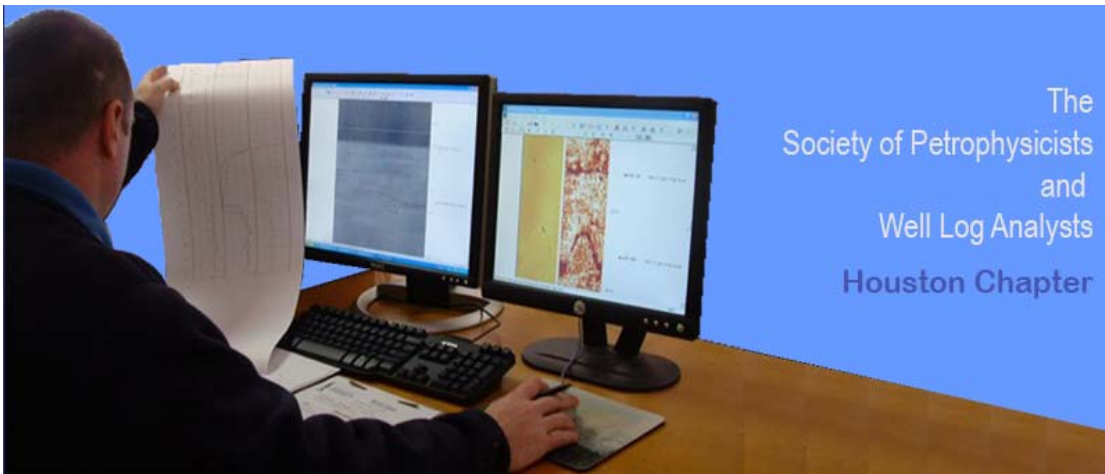
Weatherford's drilling systems greatly reduce well construction costs with faster ROP, higher LWD logging speeds and smoother boreholes—making them ideal for both routine and extreme applications.

To learn more about how our full suite of directional drilling, LWD and rotary-steerable systems are engineered for reliable and repeatable performance, visit weatherford.com.

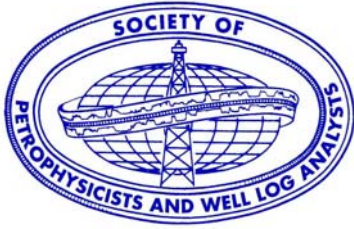
Our business is built **All Around You.**

Drilling | Evaluation | Completion | Production | Intervention





Visit the website at www.spwla-houston.org



SPWLA Houston Chapter News

March 2008

SPWLA meetings are open to members and non-members.

For the Downtown meeting, reservations should be made no later than noon of the day before the meeting. If you reserve and cannot attend, please call to cancel or you may be billed.

Advertising Slot Rates and Sizes

Full Page	Half Page	Quarter Page	Business Card
\$250	\$150	\$75	\$20

20% Discount for Multiple-Issue Ads



Society of Petrophysicists and Well Log Analysts
8866 Gulf Freeway, Suite 320
Houston, Texas 77017

Non-Profit
Organization
U.S Postage
PAID
Houston, Texas
Permit 3692