

PROFESSIONAL SERVICES

To advertise in Professional Services, contact jpt_ads@spe.org or call +1.972.952.9351. For more information about advertising in *JPT*, go to Advertising Information on www.spe.org/jpt.

OPES International

The Resources and Experience for all

- Reservoir Engineering
- Production Engineering
- Geology
- Economics

Septimus Roe Square, Level 7,
256 Adelaide Terrace, Perth, Western Australia 6000
Tel: (618) 9221 3909 Fax: (618) 9221 2517

www.opes.com.au

FEKETE

Independent Petroleum Consultants

- Reserves Evaluation
- Production Optimization
- Geological Studies
- Coalbed Methane Studies
- Well Test Analysis
- Rate Transient Analysis
- Reservoir Engineering/ Simulation
- Pipeline Optimization
- Regulatory Applications
- Integrated Reservoir Studies
- Petroleum Software

Toll Free: 1.800.625.2488 Phone: 403.213.4200
Email: fast@fekete.com Fax: 403.213.4298

fekete.com

ARGENTINA

GCA

Gaffney, Cline & Associates

Technical and Management Advisers to the International Petroleum Industry

Gaffney, Cline & Associates Ltd.

Avenida Pte. Roque Saenz Peña 917
piso 2, Of. 1, C1035AAE
Capital Federal, Buenos Aires
Rep. Argentina

Tel: (54-11) 4394-1007

Fax: (54-11) 4326-0442

Email: gcaba@gaffney-cline.com

Also: UK, USA, Singapore, Australia and Russia

www.gaffney-cline.com

CANADA

ADVANCED GEOTECHNOLOGY Petroleum Geomechanics Solutions

- Wellbore Stability • Sand Production • Hydraulic Fracturing
- Casing & Caprock Integrity • Naturally Fractured Reservoirs
- Compaction • Permafrost • Waste Disposal • Reservoir Monitoring • Testing • STABView & ROCKSBank Software

1100, 333-5th Ave SW, Calgary, Alberta, CANADA T2P 3B6
tel: 1(403)693-7530 fax: 1(403)693-7541
info@advgeotech.com www.advgeotech.com

ROBERTO AGUILERA, Ph.D. SERVIPETROL LTD.

International Petroleum Consultants
Independent Oil and Gas Producers

Naturally Fractured Reservoirs
Log Interpretation
Well Test Analysis
Performance Forecasts
Economics
Numerical Simulation
Petroleum Short Courses

E-mail: aguilera@servipetrol.com

903-19th Avenue SW, Suite 502

Calgary, Canada T2P 3T7

Phone: (403) 266-2535 Fax: (403) 264-8297

<http://www.servipetrol.com>

AJM Petroleum Consultants

Evaluations that stand the test of time

- Corporate Reserves
- Acquisitions and Divestitures
- Special Reserves

www.ajma.net

Suite 1400, 734 - 7 Avenue SW
Calgary Alberta CANADA T2P 3P8
p. 403.232.6600 f. 403.265.0862

e. ajma@ajma.net

DEGOLYER AND MACNAUGHTON

WORLDWIDE PETROLEUM CONSULTANTS

5001 Spring Valley Rd., Ste. 800 East, Dallas, TX 75244

Tel: 214-368-6391 Fax: 214-369-4061

Calgary Office

311-6th Avenue SW, Suite 1430

Calgary, Alberta, Canada T2P 3H2

Tel: 403-266-8680 Fax: 403-266-1887

Email: degolyer@demac.com

www.demac.com

DALLAS HOUSTON CALGARY MOSCOW

SPE Distance Learning...

Register online at www.SPE.org

or call +1.972.952.9393.

GLJ Petroleum Consultants

Professional Engineering and Geological Services to the Canadian and International Oil and Gas Industry since 1972

Reserve Determinations & Economic Analyses
Reservoir Engineering & Geological Appraisals

Exploration Prospect Reviews

Surface Mineable Oil Sands Evaluations

Resource Supply & Ultimate Potential Studies

Securities Commissions Reporting

Corporate Advisory & Technical Support

Bus: (403) 266-9500

Internet: www.GLJPC.com

Fax: (403) 262-1855

Email: info@GLJPC.com

4100, 400 - 3rd Avenue S.W., Calgary, Canada T2P 4H2

IPT

Integrated Petroleum Technologies

Since 1991

Specializing in the integration of modern completion, stimulation and reservoir technologies

The industry leader in real-time hydraulic fracturing interpretation, stimulation fluid and equipment optimization

Innovative use of and expertise in pressure transient analysis and reservoir simulation

Denver, Colorado

(303) 216-0703

co@iptengineers.com

Oklahoma City, Oklahoma

(405) 842-2576

ok@iptengineers.com

McDaniel & Associates Consultants Ltd.

World Leaders in Petroleum

Consulting since 1955

Domestic & International Specialists in:

Reserve Evaluations

Geological Studies

Acquisitions/Divestitures

Reservoir Engineering

Phone: (403) 262-5506

Fax: (403) 233-2744

Calgary Alberta Canada

Website: www.mcdan.com

Email: mcdaniel@mcdan.com

NETHERLAND, SEWELL & ASSOCIATES, INC.

Worldwide Petroleum Consultants

Engineering • Geology • Geophysics • Petrophysics

• Argentina

• Australia

• Bolivia

• Brazil

• Canada

• China

• Egypt

• Equatorial Guinea

• Indonesia

• Kazakhstan

• Mexico

• Norway

• Papua New Guinea

• Russia

• Trinidad

• United Kingdom

• United States

• Venezuela

Dallas: (214) 969-5401 • Houston: (713) 654-4950

e-mail: nsai@nsai-petro.com

www.netherlandsewell.com

Because there is a difference.

ASIA PACIFIC

Ryder Scott Company Petroleum Consultants

Est. 1937 • Worldwide Reserves Studies
Geoscience • Engineering • Economics

1100 Louisiana, Suite 3800, Houston, TX 77002-5218

Phone: 713-651-9191 Fax: 713-651-0849

Web Site: www.ryderscott.com

E-Mail: info@ryderscott.com

Changing Your Address?

Let SPE know. +1.972.952.9393

AUSTRALIA

NETHERLAND, SEWELL & ASSOCIATES, INC.

Worldwide Petroleum Consultants

Engineering • Geology • Geophysics • Petrophysics

• Argentina

• Australia

• Bolivia

• Brazil

• Canada

• China

• Egypt

• Equatorial Guinea

• Indonesia

• Kazakhstan

• Mexico

• Norway

• Papua New Guinea

• Russia

• Trinidad

• United Kingdom

• United States

• Venezuela

Dallas: (214) 969-5401 • Houston: (713) 654-4950

e-mail: nsai@nsai-petro.com

www.netherlandsewell.com

Because there is a difference.

SPE Training Marketplace

Does your company offer upstream oil and gas courses?

For listing information:

Call +1.972.952.9393 • Email: trainingmkt@spe.org

PetroStudies Consultants Inc.

Reservoir Engineering & Simulation Specialists
Exodus & Exotherm Experts

www.petrostudies.com

Ph: (403) 265-9722 / Fax: (403) 265-8842

PHH PETROLEUM CONSULTANTS LTD.

RESERVOIR ENGINEERING
RESERVOIR SIMULATION
GAS RESERVE AND DELIVERABILITY STUDIES
RESERVOIR PERFORMANCE REVIEWS
SOFTWARE DEVELOPMENT

Suite 240, 1121 Centre Street N.W.
Calgary, Alberta, Canada, T2E 7K6

Phone: (403) 232-6822 Fax: (403) 232-6764 Email: info@pnhpc.com

RPS Energy

- Integrated Petroleum Studies
- Unconventional Reservoir Development
- Frontier Developments
- Production & Well Engineering
- Reservoir Engineering
- Seismic — Site Investigation & Survey
- Geotechnical Consulting
- Geoscience/Well Site Operations

Petroleum Engineering 403.265.7226
Seismic/Geoscience/Operations 403.263.0449

www.rpsgroup.com www.apa-inc.com

RPS Energy Canada

Ryder Scott Company Petroleum Consultants

Est. 1937 • Worldwide Reserves Studies
Geoscience • Engineering • Economics

Houston • Calgary • Denver

1100 Louisiana, Suite 3800, Houston, TX 77002-5218
Phone: 713-651-9191 Fax: 713-651-0849

1200, 530 - 8th Ave. S.W., Calgary, Alberta T2P 3S8
Phone: 403-262-2799 Fax: 403-262-2790

621 17th St., Suite 1550, Denver, CO 80293
Phone: 303-623-9147 Fax: 303-623-4258

Web Site: www.ryderscott.com
E-Mail: info@ryderscott.com

Sproule

Worldwide Petroleum Consultants

Reserves and Resource Evaluation Specialists

Calgary, Alberta, Canada
(403) 294-5500
1-877-777-6135

Website: www.sproule.com
E-Mail: info@sproule.com

CENTRAL EUROPE

Ryder Scott Company Petroleum Consultants

Est. 1937 • Worldwide Reserves Studies

1100 Louisiana, Suite 3800, Houston, TX 77002-5218
Phone: 713-651-9191 Fax: 713-651-0849
4 Park Place, London, SW1A 1LP, U.K.
Phone: 44 (0)207-898-9340

Web Site: www.ryderscott.com • E-Mail: info@ryderscott.com

Changing Your Address?

Let SPE know. +1.972.952.9393

INDONESIA

OPES International

The Resources and Experience for all

- Reservoir Engineering
- Production Engineering
- Geology
- Economics

Septimus Roe Square, Level 7,
256 Adelaide Terrace, Perth, Western Australia 6000
Tel: (618) 9221 3909 Fax: (618) 9221 2517

www.opes.com.au

KUWAIT

International Reservoir Technologies, Inc.

INTEGRATED RESERVOIR STUDIES

Seismic Interpretation & Modeling
Stratigraphy & Petrophysics
Reservoir Simulation

Enhanced Oil Recovery Studies
Well Test Design & Analysis
Well Completion Optimization

300 Union Blvd., Suite 400

Lakewood, CO 80228

PH: (303) 279-0877 Fax: (303) 279-0936
www.irt-inc.com IRT_Information@irt-inc.com

LIBYA

Ryder Scott Company Petroleum Consultants

Est. 1937 • Worldwide Reserves Studies
Geoscience • Engineering • Economics

1100 Louisiana, Suite 3800, Houston, TX 77002-5218
Phone: 713-651-9191 Fax: 713-651-0849
Web Site: www.ryderscott.com
E-Mail: info@ryderscott.com

SPE TIGs... 26 discipline-
specific Technical Interest Groups
(TIGs) to share experiences around
the world and around the clock.

www.SPE.org +1.972.952.9393

NORWAY

LyngaasTMC

Training/Mentoring/Consultancy

WellCat simulations

HPHT csg/tbg design, Wellhead movement,
Transient thermal effects, Packer load envelopes,
VIT tubing, Steam injection analysis

T&D simulations

Floating tubulars, lock-up analysis, max reach sensitivities

Other software expertise: Presmod, DynafloDrill,
Kick, Cwear, COMPASS, WELLPLAN, Prosper

Sigurd Slembevei 2, N-7051 Trondheim, Norway
Phone: +47 90090989

simulations@lyngaastmc.com / www.lyngaastmc.com

PERA

Curtis H. Whitson
& Associates

EOS Fluid Characterization Studies
Petroleum Streams Management

Design & Analysis of PVT Data
Compositional Simulation Expertise
Gas Condensate Specialists

Granåsvei 1, 3rd Floor • 7048 Trondheim Norway
Phone 47 7384 8080 / Fax 47 7384 8081
whitson@pera.no / www.pera.no

SPE Distance Learning...

Register online at www.SPE.org

or call +1.972.952.9393.

RUSSIA

- The leading Russian oil & gas recruitment company
- Recruitment services for all disciplines
- Permanent and contract personnel

ancor
ENERGY SERVICES

21/3 Stanislavskogo St., phone: (495) 540-41-00
Moscow, 109004, Russia e-mail: energy@ancor.ru
www.ancorenergy.com

DEGOLYER AND MACNAUGHTON

WORLDWIDE PETROLEUM CONSULTANTS
5001 Spring Valley Rd., Ste. 800 East, Dallas, TX
75244

Tel: 214-368-6391 Fax: 214-369-4061

Moscow Office

8 B Mozhaiksky Val, 5th Floor
121151 Moscow, Russia

Tel: 7495-660-7273 Fax: 7495-660-7276

Email: degolyermos@demac.com

www.demac.com

DALLAS HOUSTON CALGARY MOSCOW

GCA

Gaffney, Cline & Associates

Technical and Management Advisers to the
International Petroleum Industry

Gaffney, Cline & Associates Ltd.

8th Floor, Radisson SAS Slavyanskaya
Business Centre

2 Europe Square, Moscow 121059

Russian Federation

Telephone: +7 095 941 87 10

Fax: +7 095 941 87 11

Also: UK, USA, Singapore, Argentina and Australia

www.gaffney-cline.com

SERVING THE OIL AND GAS INDUSTRY FOR
OVER 50 YEARS

MILLER AND LENTS, LTD.

INTERNATIONAL OIL AND GAS CONSULTANTS

Specializing in All Phases of Reserves Evaluations,
Including Petroleum Economics,
Reservoir Engineering, Geology, and Petrophysics

Two Houston Center Phone: (713) 651-9455
909 Fannin St., Ste. 1300 Fax: (713) 654-
9914
Houston, TX 77010 e-mail: mail@millerandlents.com

Web pages: <http://www.millerandlents.com>

Rock Flow DYNAMICS

Parallel Supercomputing

Waterflood optimization

Sidetracks planning

Advanced NPV maximization

Geological, hydrodynamic modeling

Hydrodynamic Uncertainty Analysis

+7 916 254 5899, +7 495 129 3500

<http://www.rfdyn.com> support@rfdynamics.ru

Ryder Scott Company Petroleum Consultants

Est. 1937 • Worldwide Reserves Studies
Geoscience • Engineering • Economics

1100 Louisiana, Suite 3800, Houston, TX 77002-5218
Phone: 713-651-9191 Fax: 713-651-0849
Web Site: www.ryderscott.com
E-Mail: info@ryderscott.com

TRACS International

Training and Consultancy Services to the Petroleum Industry

- Reserves Audits
- Asset Value Assurance
- Business Consultancy
- Acquisition and Disposition
- Reservoir Studies
- Training

Office 50, Dmitrovsky Proezd 10/3
125422 Moscow

Tel: +7 495 775 6116

Fax: +7 495 775 6116

www.tracs.com

Changing Your Address?

Let SPE know. +1.972.952.9393

SINGAPORE

GCA

Gaffney, Cline & Associates

Technical and Management Advisers to the
International Petroleum Industry

Gaffney, Cline & Associates Pte. Ltd.

80 Anson Road, #31-01C

Fuji Xerox Towers

Singapore 079907

Tel: 65 6225-6951

Fax: 65 6224-0842

Email: gcas@gaffney-cline.com

Also: Sydney, Australia

Tel: (61-2) 9955-6157

Fax: (61-2) 9955-0624

Email: gcasyd@gaffney-cline.com

Also: UK, USA, Russia and Argentina

www.gaffney-cline.com

Stuart Wright Pte Ltd

Leading Well Engineering & Service Provider in:-

Well Design

Well Assurance Reviews (HPHT)

Well Control Incident Investigation

Mechanical Component Failure Investigation & Analysis

Well Engineering Training

Personnel Secondment

Drilling Project Management

No.1 Scotts Road
#18-06 Shaw Centre
Singapore 228208

Tel: 65-63039988
Fax: 65-63039989

Email: admin@stuartwright.com.sg
Website: www.stuartwright.com.sg

SPE Distance Learning...

Register online at www.SPE.org
or call +1.972.952.9393.

UNITED KINGDOM

GCA

Gaffney, Cline & Associates

Technical and Management Advisers to the
International Petroleum Industry

Gaffney, Cline & Associates Ltd.

Bentley Hall, Blacknest
Alton, Hampshire, GU34 4PU
UK

Tel: +44 (0) 1420 525366

Fax: +44 (0) 1420 525367

Email: gcauk@gaffney-cline.com

Also: USA, Singapore, Russia, Argentina and Australia

www.gaffney-cline.com

NETHERLAND, SEWELL & ASSOCIATES, INC.

Worldwide Petroleum Consultants

Engineering • Geology • Geophysics • Petrophysics

- Argentina
- Australia
- Bolivia
- Brazil
- Canada
- China
- Egypt
- Equatorial Guinea
- Indonesia
- Kazakhstan
- Mexico
- Norway
- Papua New Guinea
- Russia
- Trinidad
- United Kingdom
- United States
- Venezuela

Dallas: (214) 969-5401 • Houston: (713) 654-4950

e-mail: nsai@nsai-petro.com

www.netherlandsewell.com

Because there is a difference.

PETROLEUM DEVELOPMENT CONSULTANTS

International Petroleum Consultants

Reservoir Studies • Field Development
Expert Witness Services • Due Diligence

Stanhope House
4-8 Highgate High Street
London N6 5JL, UK

Tel: +44 20 8347 3498

Fax: + 44 20 8347 3499

Email: info@pdc.uk.com

www.pdc.uk.com

Ryder Scott Company Petroleum Consultants

Est. 1937 • Worldwide Reserves Studies

1100 Louisiana, Suite 3800, Houston, TX 77002-5218

Phone: 713-651-9191 Fax: 713-651-0849

4 Park Place, London, SW1A 1LP, U.K.

Phone: 44 (0)207-898-9340

Web Site: www.ryderscott.com • E-Mail: info@ryderscott.com

TRACS International

Training and Consultancy Services to the Petroleum Industry

- Reserves Audits
- Asset Value Assurance
- Business Consultancy
- Acquisition and Disposition
- Reservoir Studies
- Training

Falcon House
Union Grove Lane
Aberdeen, AB10 6XU

Tel: +44 1224 321213

Fax: +44 1224 321213

44 Quarry Street

Guildford

Surrey, GU1 3XQ

Tel: +44 1483 452522

Fax: +44 1483 598010

www.tracs.com

Subscribe to

SPE Drilling & Completion

Call +1.972.952.9393 or subscribe
online at www.SPE.org.

UNITED STATES

A + PIPE TALLEY BOOKS

Service • Quality • Low Cost

Call 1-800-211-0295

Jim Giblin

jim@holdencp.com

HOLDEN CUSTOM PRODUCTS

www.pipetalleybooks.com

Acute Technological Services, LLC

Welding Engineering
Research and Development
Worldwide Welding Services

11925 Brittmoore Park Drive
Houston, Texas 77041

713-983-9353

www.acutetechserv.com

APEX Petroleum Engineering

INTERNATIONAL ENGINEERING SERVICES

FRACTURE MAPPING SERVICES

applying modern seismic principles

Hydraulic Fracture Design & Real-Time Execution

Drilling / Completion / Operations Engineering

2 Inverness Drive East, Ste. 201, Englewood, Colorado 80112
303-779-2520 • email: apex@apexpe.com • www.apexpe.com

AVASTHI

Worldwide petroleum engineering, geosciences,
technology, operations and management consulting

P.O. Box 60497, Houston, TX 77205-0497 USA

Phone: 281-359-2674 • Fax: 281-754-4969

E-mail: avas@att.net • Voicemail: 281-754-4969

BLACKMIDAS

Reservoir Simulation & Evaluation Technology
Reservoir Engineering, Characterization, Reserve Determinations,
Phase behavior Studies, Gas Condensate Studies, Gas Storage
Field Re/Development Studies, Enhanced Oil Recovery
Economic/Risk Analysis, Expert Witness

(Houston) 1-713-984-8855, Fax 1-713-984-1793

www.blackmidas.com or email rs-etc@blackmidas.com

Changing Your Address?

Let SPE know. +1.972.952.9393

Cawley Gillespie

Petroleum Consultants
Integrated Engineering & Geology

Ft. Worth 306 W. 7th Street Suite 302 Fort Worth, TX 76102
Phone: (817) 336-2461 Fax: (817) 877-3728

Houston 1000 Louisiana Street Suite 625 Houston, TX 77002
Phone: (713) 651-9944 Fax: (713) 651-9980

Email: info@cgaus.com
Website: www.cgaus.com

WILLIAM M. COBB & ASSOCIATES, INC.

— WORLDWIDE PETROLEUM CONSULTANTS —

Waterflood & EOR Studies, Geosciences, Training, Reserves & Property Valuation, Expert Witness

12770 Coit Road, Suite 907, Dallas, TX 75251
Phone (972) 385-0354 FAX (972) 788-5165
www.wmcoobb.com E-mail: office@wmcoobb.com

COUTRET AND ASSOCIATES, INC.

Petroleum Reservoir Engineers

Property Evaluation, Reservoir Engineering
Fluid Injection, Property Management

401 Edwards Street, Suite 810 Shreveport, LA 71101
Phone (318) 221-0482 Fax (318) 221-3202
coutret@coutret.com/www.coutret.com

RALPH E. DAVIS ASSOCIATES, INC.

International Consultants — Petroleum and Natural Gas
www.ralphedavis.com

Reserve Evaluation • Reservoir Studies • Geologic Studies
Coalbed Methane Development • Property Acquisition and Sales • Expert Witness

1717 St. James Place, Suite 460 - Houston, TX 77056
Tel: 713-622-8955 Fax: 713-626-3664

Proudly serving the industry for over 80 years.

DEGOLYER AND MACNAUGHTON

WORLDWIDE PETROLEUM CONSULTANTS

5001 Spring Valley Rd., Ste. 800 East, Dallas, TX 75244
Tel: 214-368-6391 Fax: 214-369-4061
Houston Office

5151 San Felipe, Ste. 950, Houston, TX 77056
Tel: 713-273-8300 Fax: 713-784-1972

Email: degolyer@demac.com
www.demac.com

DALLAS HOUSTON CALGARY MOSCOW

EDINGER ENGINEERING INC.

PETROLEUM ENGINEERS

Property Valuation
Management & Operations
Secondary Recovery—Reservoir Studies
Estate & Trust Appraisals
Hightower Bldg., Oklahoma City, OK 73102
(405) 232-6315 fax: (405) 232-8136

M.J. ENGLAND, P.E.

CONSULTING PETROLEUM ENGINEER

Reserve Reports Estate Appraisals
Fair Market Value Expert Witness

621 17th Street, Suite 1500
Denver, CO 80293-1503
Telephone: 303/298-0860
Facsimile: 303/298-0861

Fairchild & Stan

PETROLEUM AND ENVIRONMENTAL ENGINEERING CONSULTANTS

1011 Highway 6 South Suite 304 Houston, Texas 77077-1036
Tel: (281) 497-8990 Fax: (281) 497-8368
Email: faw@fawinc.com

www.fawinc.com

FORREST A. GARB & ASSOCIATES, INC.

International Petroleum Consultants

Reservoir Engineering Economic Evaluation Geologic Studies Forensic Engineering
Expert Witness Reservoir Simulation Due Diligence Technical Staffing

5310 Harvest Hill Road, Suite 275
Dallas, Texas 75230-5805
Tel: 972-788-1110 Fax: 972-991-3160
Email: forgarb@forgarb.com
Web pages: www.forgarb.com

GCA

Gaffney, Cline & Associates

Technical and Management Advisers to the
International Petroleum Industry

1360 Post Oak Blvd. Suite 2500 Houston, Texas 77056
Tel: (713) 850-9955 Fax: (713) 850-9966

Also: UK, Singapore, Russia, Argentina and Australia

www.gaffney-cline.com

H.J. Gruy and Associates, Inc.

Worldwide Petroleum Engineering and Geoscience

Reserve Determinations Geologic Studies Petrophysical Analysis Seismic Interpretation Reservoir Simulation Stochastic Evaluations
Market Valuations Expert Testimony Arbitration Commercial Models Risk Analysis Acquisition Screening

Three Allen Center 333 Clay Street, Suite 3850 Houston, Texas 77002
TEL: (713) 739-1000 FAX: (713) 739-6112
hougruy@hijgruy.com

Plaza of the Americas Bldg. 600 N. Pearl Street, Suite 2230, LB 150 Dallas, Texas 75201
TEL: (214) 720-1900 FAX: (214) 720-1913
dalgruy@hijgruy.com

SPE Training Marketplace

Does your company offer upstream oil and gas courses?

For listing information:

Call +1.972.952.9393 • Email: trainingmkt@spe.org

HAAS PETROLEUM ENGINEERING SERVICES, INC.

Robert W. Haas, P.E., President

2100 Ross Ave., Suite 1450 Dallas, TX 75201
Office (214) 754-7090 Fax (214) 754-7092

Email: haas@haasengineering.com
www.haasengineering.com

T. Scott Hickman & Associates, Inc.

Consulting Petroleum Engineers

Experienced Throughout U.S.A.

Due Diligence Reserve Evaluation Reservoir Studies
Prospect Screening Property Acquisition Litigation
505 N. Big Spring, Suite 105 Energy Square Bldg. Midland, TX 79701
TEL (432) 683-4391 www.tshickman.com FAX (432) 683-7303
Email: tshickman@tshickman.com

Huddleston & Co., Inc.

Domestic and International
Petroleum & Geological Engineers
1221 McKinney, Suite 3700
Houston, TX 77010

Ph: (713) 209-1100 Fax: (713) 209-1104
e-mail: info@HuddlestonCo.com

IPT

Integrated Petroleum Technologies

Since 1991

Specializing in the integration of modern completion, stimulation and reservoir technologies

The industry leader in real-time hydraulic fracturing interpretation, stimulation fluid and equipment optimization

Innovative use of and expertise in pressure transient analysis and reservoir simulation

Denver, Colorado (303) 216-0703
co@iptengineers.com

Oklahoma City, Oklahoma (405) 842-2576
ok@iptengineers.com

INTERNATIONAL PETROLEUM CONSULTANTS ASSOCIATION INC.

Dr. Paul Hood & Blake Kemper freelance Consultants
Compositional & Black Oil Simulation, EOR, Economics — Carbonates & Classics, USA, Middle East, North Sea

P.O. BOX 1657, EVERGREEN, CO 80437-1657
Tel: (1) 303-670-3754; GSM (1) 303-218-0109
Email: ipcainc@attglobal.net

International Reservoir Technologies, Inc.

INTEGRATED RESERVOIR STUDIES

Seismic Interpretation & Modeling Stratigraphy & Petrophysics Reservoir Simulation

Enhanced Oil Recovery Studies Well Test Design & Analysis Well Completion Optimization

300 Union Blvd., Suite 400 Lakewood, CO 80228
PH: (303) 279-0877 Fax: (303) 279-0936
www.irt-inc.com IRT_Information@irt-inc.com

IPR GROUP OF COMPANIES

(Improved Petroleum Recovery)

- Oil and Gas Exploration and Production
- Integrated Technologies for Reservoir Management and Field Development
- Oilfield Services and EOR Applications
- Technology Transfer

600 East Las Colinas Blvd., #800, Irving, TX USA 75039-5601
Phone: (972) 257-1900; FAX: (972) 910-9259
E-Mail: ipr@iprgoc.com
www.iprgoc.com

London (44) (207) 887-1303 (44) (207) 887-6100
Cairo Phone: (20) (2) 2358-3235 Fax: (20) (2) 2380-1717
iprgroup.uk@iprgoc.com ipr@iprcairo.com

iReservoir.com, Inc.

Geophysics Petrophysics
Geologic Modeling Reservoir Simulation

iReservoir.com provides world class 3D reservoir characterization and simulation studies along with secure Web hosting of dynamic results for oil and gas companies using state-of-the-art geoscience and engineering technology.

1490 W. Canal Court, Suite 2000 Littleton, CO 80120-5643
Ph. 303-713-1112 Fax. 303-713-1113

E-Mail: meng@iReservoir.com

www.iReservoir.com

SPE E&P Consultants Directory Online

- Consultants—List your services now!
 - Need a consultant? Search the directory for free!
- Connect with consulting services here.

Find listing fees and consultants at
www.spe.org/consultant

<p>Subscribe to SPE Journal</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>	<p>MHA Petroleum Consultants <i>Worldwide Petroleum Consultants</i></p> <ul style="list-style-type: none"> • Integrated Geology & Engineering Studies • Reservoir Engineering & Simulation • Reserves Valuation / Risk Analysis • Acquisition and Disposition • Litigation / Arbitration Support • Training <p>14142 Denver West Parkway, Suite 190 Lakewood, Colorado 80401 Phone: (303) 277-0270 Fax: (303) 277-0267 Website: mhausa.com</p>	<p>Subscribe to SPE Production & Operations</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>
<p>David R. Keller <i>International Petroleum Consultant</i></p> <ul style="list-style-type: none"> • Reservoir Characterization and Modeling • Seismic Interpretation • Deepwater and Carbonate Expertise <p>Tel: 801-661-9197 Email: reservoir.modeling@davidrkeller.com</p>	<p>NECI Northeastern Energy Consulting, Inc. ENGINEERING SERVICES</p> <p>Well Operations • Drilling Supervision • Reserve Appraisals Pittsburgh, PA (724) 444-0875</p>	<p>NETHERLAND, SEWELL & ASSOCIATES, INC. <i>Worldwide Petroleum Consultants</i> Engineering • Geology • Geophysics • Petrophysics</p> <ul style="list-style-type: none"> • Argentina • Australia • Bolivia • Brazil • Canada • China • Egypt • Equatorial Guinea • Indonesia • Kazakhstan • Mexico • Norway • Papua New Guinea • Russia • Trinidad • United Kingdom • United States • Venezuela <p>Dallas: (214) 969-5401 • Houston: (713) 654-4950 e-mail: nsai@nsai-petro.com www.netherlandsewell.com <i>Because there is a difference.</i></p>
<p>KMS Technologies Custom borehole systems & permanent sensors Technology development / transfer / evaluation Petrophysics & Geophysics consultancy</p> <p>KJT Enterprises Inc. 6420 Richmond Ave., Suite 610 Houston, TX 77057 USA</p> <p>Tel: 713.532.8144 or 281.293.8144 Fax: 832.204.8418 www.KMSTechnologies.com</p>	<p>Mannon Associates <i>Petroleum Consultants</i></p> <p>1045 Via Tranquila Santa Barbara, CA 93110 E-Mail: mannon@cox.net (805) 682-8480 (805) 687-7787 (Fax)</p> <ul style="list-style-type: none"> • Economic Valuation • Expert Testimony • Reservoir Engineering • Geology • Petroleum Software 	<p>Worldwide Petroleum Consultants Engineering • Geology • Geophysics • Petrophysics</p> <p>Dallas: (214) 969-5401 • Houston: (713) 654-4950 e-mail: nsai@nsai-petro.com www.netherlandsewell.com <i>Because there is a difference.</i></p>
<p>LEE KEELING AND ASSOCIATES, INC. <i>International Petroleum Consultants</i></p> <p>Economic Evaluations Reservoir Engineering Reserve Estimates Secondary Recovery Reservoir Simulation Gas Storage Expert Witness S.E.C. Appraisals</p> <p>Tulsa Office Houston Office Suite 3500 Suite 3790 15 East 5th Street 601 Jefferson Ave. Tulsa, OK 74103-4350 Houston, TX 77002 Phone: (918) 587-5521 Phone: (713) 651-8006 Fax: (918) 587-2881 Fax: (281) 754-4934</p> <p>www.lkaengineers.com e-mail: keeling@lkaengineers.com</p>	<p>Sharing Experiences Around the World and Around the Clock...</p> <p>SPE TIGs...</p> <p>Join one of 26 discipline-specific Technical Interest Groups (TIGs) to access technology and create a network of colleagues.</p> <p>Register online at www.SPE.org or call +1.972.952.9393.</p>	<p>NITEC LLC <i>International Petroleum Consultants</i></p> <p>Data Integration • Field Development Planning Fracture Characterization • Property Modeling Black Oil/Compositional/Thermal Reservoir Simulation Gas Storage • Economic Evaluations</p> <p>Provider of LYNX® and MatchingPro® Software</p> <p>475 17th Street, Suite 1400 Ph. (303) 292-9595 Denver, Colorado 80202 Fax (303) 292-9585 www.NITECLLC.com</p>
<p>LARANCE ENGINEERING COMPANY LANE OPERATING COMPANY</p> <p>Consulting Petroleum Engineers Reserv. Eva., Sec. Recovery, Unitiz. Drilling & Completion Supervision Property Management 719 Scott Ave., Suite 420 Wichita Falls, TX 76301 940/322-0744</p>	<p>Marshall Miller & Associates, Inc.</p> <p>International Petroleum Engineers Specializing in Oil & Gas Evaluations Coalbed Methane Assessments Reservoir Analysis & Project Economics</p> <p>corp@mma1.com • (276)322-5467</p> <p>Office Locations: VA • WV • KY NC • PA • KS • LA • TN • affiliated Office Location: Shanxi Province, PRC</p> <p>www.mma1.com</p>	<p>D.F. NORTH AND ASSOCIATES, INC. PETROLEUM AND NATURAL GAS CONSULTANTS</p> <ul style="list-style-type: none"> • Reserve Appraisals • Prospect Evaluations • Economic/Risk Analysis • Gas/LPG Storage Studies • Pipeline Design • Expert Witness • Computer Software <p>DFNAA@PRODIGY.NET P.O. Box 7335 Off. (281) 298-1167 The Woodlands, Texas 77387 Res. (281) 367-1767</p>
<p>LaRoche Petroleum Consultants, Ltd. <i>25 Years of Quality Service</i></p> <p>Global Petroleum Engineering, Geological, and Geophysical Services</p> <p>4600 Greenville Ave. www.larocheltd.com Suite 160 Phone: 214-363-3337 Dallas, TX 75206 Fax: 214-363-1608</p>	<p>LONQUIST & CO. LLC <i>Petroleum Engineers • Energy Advisors</i> www.lonquist.com</p> <ul style="list-style-type: none"> • Reservoir Engineering • Reserve Determinations • Economic Evaluations • Underground Storage Engineering • Salt Cavern Engineering • Supply Studies • Merger & Acquisition Support • Mineral and Royalty Management • Regulatory Filings and Testimony <p>Austin Office Houston Office 3345 Bee Cave Rd. 1001 McKinney Suite 201 Suite 1445 Austin, Texas 78746 Houston, Texas 77002 Tel: 512.732.9812 Tel: 713.559.9950 Fax: 512.732.9816 Fax: 713.559.9959</p>	<p>Hydraulic Fracturing NSI Technologies</p> <p>Design/Evaluation/Optimization On-Site Consultation Training Laboratory Services Industry Leading Software</p> <p>Houston, Texas Tulsa, Oklahoma (281) 367-7353 (918) 496-2071 FAX: (281) 364-1360 info@nsitech.com</p>
<p>Subscribe to SPE Reservoir Evaluation & Engineering</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>	<p>MK Tech Solutions, Inc. EOR Evaluation and Simulations, Gas and Air Injection, Miscible, Thermal, Surfactant Enhanced Waterflooding 12843 Covey Lane, Houston, TX 77099 Ph: 281-564-8851, Fax: 281-564-8821 www.MKTechsolutions.com</p>	<p>Subscribe to SPE Drilling & Completion</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>

**PLATT, SPARKS & ASSOCIATES
CONSULTING PETROLEUM ENGINEERS, INC.**
www.PlattSparks.com

- Reservoir Engineering
- Reservoir Simulation
- Reservoir Characterization
- Oil and Gas Reserves Evaluation
- Fair Market Value and Acquisition Valuation
- Enhanced Oil Recovery
- Economic Evaluation
- Oil and Gas Production
- Gas Storage Design and Screening
- Regulatory Filings and Database Acquisition
- Expert Petroleum Engineering Testimony

AUSTIN OFFICE
925-A Capital of Texas Highway S.
Austin, Texas 78746 U.S.A.
Telephone: (512) 327-6930
Facsimile: (512) 327-7069
Experts@PlattSparks.com

MIDLAND OFFICE
800 North Marienfeld, Ste. 100
Midland, Texas 79701 U.S.A.
Telephone: (432) 687-1939
Facsimile: (432) 687-1930
Dsparks@DiscoveryOperating.com

PRA

Petrotechnical Resources of Alaska, LLC
Alaska's Oil and Gas Consultants
Geology, Geophysics, and Engineering
www.Petroak.com

3601 C Street (907) 272-1232 voice
Suite 822 (907) 272-1344 fax
Anchorage, AK 99503

**STOP Sucker Rod Failures,
enjoy 100% PUMP EFFICIENCY**

Adam Praisnar, Jr.
Professional Petroleum Engineer—Texas
Midland, Texas
432-570-6514 Fax 432-685-3806

The only thing that prevents perfect sub-surface pump performance is Gas Interference. Pump failures, fluid pound, and rod failures are all products of Gas Interference. I have long successful experience solving for Gas Interference and eliminating these subsurface problems.

First Try Everytime

QUESTA ENGINEERING CORPORATION
A Norwest Company
INTERNATIONAL PETROLEUM CONSULTING
Reservoir Engineering • Economic Risk
Analysis • Mature Fields • Oil Shale
CBM • IOR/EOR
Depend on the Experts
www.questa.com • 1-866-277-1629

**ROCKY MOUNTAIN OILFIELD
TESTING CENTER (RMOTC)**

Let us partner with you to test your technology real time in an operating field:

- Drilling
- Production (cased/open hole)
- Reservoir Stimulation
- Geophysics/geosciences
- Alternative energy
- Oilfield Remediation

907 N. Poplar St., Suite 150
Casper Wyoming 82601
307 233-4800
www.rmotc.doe.gov

**Ryder Scott Company
Petroleum Consultants**

Est. 1937 • Worldwide Reserves Studies
Geoscience • Engineering • Economics

Houston • Calgary • Denver

1100 Louisiana, Suite 3800, Houston, TX 77002-5218
Phone: 713-651-9191 Fax: 713-651-0849

1200, 530 - 8th Ave. S.W., Calgary, Alberta T2P 3S8
Phone: 403-262-2799 Fax: 403-262-2790

621 17th St., Suite 1550, Denver, CO 80293
Phone: 303-623-9147 Fax: 303-623-4258

Web Site: www.ryderscott.com
E-Mail: info@ryderscott.com

RPS SCOTIA

25+ Years of Service

- | | |
|-----------------------|----------------------|
| Reservoir Engineering | Reservoir Simulation |
| Strategic Studies | Enhanced Recovery |
| Reserves Evaluations | Geological Analysis |
| Geocell Models | M&A Evaluations |

Suite 1150, 4849 Greenville Avenue
Dallas, Texas 75206

Tel 214-987-1042 Fax 214-987-1047

E-mail dallas@scotia-group.com

Home Page: www.scotia-group.com

HOUSTON

Tel 281-448-6188 Fax 281-448-6189

E-mail houston@scotia-group.com

SI INTERNATIONAL, INC.

Innovative Solutions for Complex Reservoirs

- Integrated Reservoir Characterization
- Thermal Recovery Studies
- Reservoir Simulation & Reserves Evaluation

Denver (303) 271-1478 Bakersfield (661) 325-0038
kevin.beacom@si-intl.com alan.burzlaff@si-intl.com

www.si-intl.com (Search "Petroleum")

**Sharpen your Competitive
Edge with SPE's
Distance Learning...**

Save time and money online,
self-paced courses, accessible
worldwide.

For additional information about
courses, or to register, visit
www.SPE.org or call +1.972.952.9393.

SiteLark

Services – Tools – Training

- Waterflood Evaluation
- Secondary and Tertiary Recovery
- Reservoir Simulation and Engineering
- Engineering Software Development

Contact: www.sitelark.com

14001 N. Dallas Pkwy
Suite 1200
Dallas, TX 75240

Telephone: 469-222-5436

E-mail: dbiswas@sitelark.com

Sproule

Worldwide Petroleum Consultants

Reserves and Resource Evaluation Specialists

Calgary, Alberta, Canada
(403) 294-5500
1-877-777-6135

Website: www.sproule.com

E-mail: info@sproule.com

STEPHENS ENGINEERING

Consulting Petroleum Engineers & Geologists
Waterflood—Evaluations
Field Supervision

Cost Estimates—Design—Installation
Reservoir Studies—Simulations

Lease Operations by Stephens & Johnson Operating Co.
P.O. Box 2249 (940) 723-2166
Wichita Falls, Texas 76307 Fax: (940) 723-8113

**THE
STRICKLAND
GROUP**

Voice 817-338-0800

www.tsg.net

Over 25 years experience offering
comprehensive reservoir engineering
consulting services to the oil and gas
industry and legal community worldwide

SURTEK

Chemical Flooding Technology

Design and Field Implementation
Evaluation – Simulation – Operations

EXPERIENCE:

232 man-years, 304 clients, 20 countries

SURTEK DESIGNED FIELD PROJECTS:

Alkaline-Surfactant-Polymer	14
Alkaline-Polymer	5
Surfactant-Polymer	28
Mobility Control Polymer	8

FUTURE FIELD PROJECTS:
Yours

1511 Washington Ave., Golden, CO 80401
(303)278-0877, fax (303)278-2245
www.surtek.com — email: surtek@surtek.com

W.D. Von Gonten & Co.

Petroleum Engineering
Domestic and International

808 Travis, Suite 812 Tel: (713) 224-6333
Houston, TX 77002 Fax: (713) 224-6330
email: bill@wdvgco.com

**WELL COMPLETION
TECHNOLOGY**

William K. (Bill) Ott, P.E.

- Sand Control • Well Completion • Stimulation
 - Formation Damage Control • Cementing
 - Technical Schools • Equipment Trading • Consulting
- 7903 Alamar Drive Tel: 281-859-6464
Houston, TX 77095-2840 Fax: 281-855-3004
USA E-mail: info@wcthou.com

VENEZUELA

**NETHERLAND, SEWELL
& ASSOCIATES, INC.**

Worldwide Petroleum Consultants

Engineering • Geology • Geophysics • Petrophysics

- | | |
|---------------------|--------------------|
| • Argentina | • Kazakhstan |
| • Australia | • Mexico |
| • Bolivia | • Norway |
| • Brazil | • Papua New Guinea |
| • Canada | • Russia |
| • China | • Trinidad |
| • Egypt | • United Kingdom |
| • Equatorial Guinea | • United States |
| • Indonesia | • Venezuela |

Dallas: (214) 969-5401 • Houston: (713) 654-4950

e-mail: nsai@nsai-petro.com

www.netherlandsewell.com

Because there is a difference.

WEST AFRICA

**Ryder Scott Company
Petroleum Consultants**

Est. 1937 • Worldwide Reserves Studies
Geoscience • Engineering • Economics

1100 Louisiana, Suite 3800, Houston, TX 77002-5218
Phone: 713-651-9191 Fax: 713-651-0849

Web Site: www.ryderscott.com

E-Mail: info@ryderscott.com