

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.

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

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 | • 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.

RPS

- Integrated Petroleum Studies & Strategic Advice
- Basin Studies & Prospect Generation
- Geosciences, Geomodelling & Reservoir Studies
- Resources & Reserve Evaluations
- Oceanography & Geo-hazard Surveys
- Seismic & Wellsite Geoscience Operations Support
- Environmental Planning, Approvals and Management
- HS&E Services

RPS Energy Limited

www.rpsgroup.com.au

Perth: +61 (08) 9211 1111

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

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: degolyercal@demac.com

www.demac.com

DALLAS HOUSTON CALGARY MOSCOW

Changing Your Address?

Let SPE know. +1.972.952.9393

FEKETE

Independent Petroleum Consultants

- | | |
|--------------------------------------|---------------------------------------|
| • Reservoir Engineering & Simulation | • Shale & Coalbed Methane Gas Studies |
| • Geological Studies | • Reserves Evaluation |
| • Rate Transient Analysis | • Pipeline Optimization |
| • Production Optimization | • Regulatory Application |
| • Well Test Engineering | • Integrated Reservoir Studies |
| • Petroleum Software | • Training |

Toll Free: 1.800.625.2488

Phone: +1.403.213.4200

Email: fast@fekete.com

Fax: +1.403.213.4298

fekete.com

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 | • 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.

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@phhpc.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

SPE Distance Learning...

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

EUROPE

PanTerra Geoconsultants BV

Reservoir Characterisation
Exploration and Appraisal Services
Field Development
Conventional Core Analysis
Special Core Analysis
PVT & Production Chemistry
Recruitment Services

"Responsive to YOUR needs"

The Netherlands

Tel: +31 71 581 3505

www.panterra.nl

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

KUALA LUMPUR

RPS

- Integrated Petroleum Studies & Strategic Advice
- Basin Studies & Prospect Generation
- Geosciences, Geomodelling & Reservoir Studies
- Resources & Reserve Evaluations
- Oceanography & Geo-hazard Surveys
- Seismic & Wellsite Geoscience Operations Support
- Environmental Planning, Approvals and Management
- HS&E Services

RPS Energy Limited
www.rpsgroup.com.au
Kuala Lumpur: +60-3-2732-8272

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

Changing Your Address?

Let SPE know. +1.972.952.9393

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

NORWAY

LyngaasTMC

TrainingMentoringConsultancy

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 Slembesvei 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

RUSSIA

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

anchor
ENERGY SERVICES

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

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

Subscribe to

SPE Reservoir Evaluation & Engineering

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

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

RPS

- Integrated Petroleum Studies & Strategic Advice
- Basin Studies & Prospect Generation
- Geosciences, Geomodelling & Reservoir Studies
- Resources & Reserve Evaluations
- Oceanography & Geo-hazard Surveys
- Seismic & Wellsite Geoscience Operations Support
- Environmental Planning, Approvals and Management
- HS&E Services

RPS Energy Limited

www.rpsgroup.com

Singapore: +65 6499 0060

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

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

UNITED STATES

A + PIPE TALLY BOOKS

Service • Quality • Low Cost

Call 1-800-211-0295

Jim Giblin

jim@holdencp.com

HOLDEN CUSTOM PRODUCTS

www.pipetallybooks.com

Changing Your Address?

Let SPE know. +1.972.952.9393

<p>Subscribe to SPE Journal</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>	<p>Cawley Gillespie</p> <p>Petroleum Consultants <i>Integrated Engineering & Geology</i></p> <p>Ft. Worth 306 W. 7th Street Suite 302 Fort Worth, TX 76102 Phone: (817) 336-2461 Fax: (817) 877-3728</p> <p>Houston 1000 Louisiana Street Suite 625 Houston, TX 77002 Phone: (713) 651-9944 Fax: (713) 651-9980</p> <p>Email: info@cgaus.com Website: www.cgaus.com</p>	<p>Subscribe to SPE Production & Operations</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>
<p>Acute Technological Services, LLC</p> <p>Welding Engineering Research and Development Worldwide Welding Services</p> <p>11925 Brittmoores Park Drive Houston, Texas 77041 713-983-9353</p> <p>www.acutetechserv.com</p>	<p>WILLIAM M. COBB & ASSOCIATES, INC.</p> <p>— WORLDWIDE PETROLEUM CONSULTANTS —</p> <p><i>Waterflood & EOR Studies, Geosciences, Training, Reserves & Property Valuation, Expert Witness</i></p> <p>12770 Coit Road, Suite 907, Dallas, TX 75251 Phone (972) 385-0354 FAX (972) 788-5165 www.wmcobb.com E-mail: office@wmcobb.com</p>	<p>M.J. ENGLAND, P.E. CONSULTING PETROLEUM ENGINEER</p> <p>Reserve Reports Estate Appraisals Fair Market Value Expert Witness</p> <p>621 17th Street, Suite 1500 Denver, CO 80293-1503 Telephone: 303/298-0860 Facsimile: 303/298-0861</p>
<p>APEX Petroleum Engineering</p> <p>INTERNATIONAL ENGINEERING SERVICES</p> <p>FRACTURE MAPPING SERVICES <i>applying modern seismic principles</i></p> <p>Hydraulic Fracture Design & Real-Time Execution</p> <p>Drilling / Completion / Operations Engineering</p> <p>2 Inverness Drive East, Ste. 201, Englewood, Colorado 80112 303-779-2520 • email: apex@apexpe.com • www.apexpe.com</p>	<p>SPE E&P Consultants Directory Online</p> <p>Consultants—List your services now!</p> <ul style="list-style-type: none"> Gain global exposure to potential E&P customers <p>Need a consultant? Search the directory for free!</p> <ul style="list-style-type: none"> Find experts to help solve your most difficult challenges <p>Connect with consulting services here.</p> <p>Find listing fees and consultants at www.spe.org/consultant</p>	<p>Fairchild & Stan PETROLEUM AND ENVIRONMENTAL ENGINEERING CONSULTANTS</p> <p>1011 Highway 6 South Suite 304 Houston, Texas 77077-1036</p> <p>Tel: (281) 497-8990 Fax: (281) 497-8368 Email: faw@fawinc.com www.fawinc.com</p>
<p>AVASTHI</p> <p><i>Worldwide petroleum engineering, geosciences, technology, operations and management consulting</i></p> <p>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</p>	<p>COUTRET AND ASSOCIATES, INC. Petroleum Reservoir Engineers</p> <p>Property Evaluation, Reservoir Engineering Fluid Injection, Property Management</p> <p>401 Edwards Street, Suite 810 Shreveport, LA 71101 Phone (318) 221-0482 Fax (318) 221-3202 coutret@coutret.com/www.coutret.com</p>	<p>GCA Gaffney, Cline & Associates</p> <p>Technical and Management Advisers to the International Petroleum Industry</p>
<p>BLACKMIDAS Reservoir Simulation & Evaluation Technology</p> <p>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</p> <p>(Houston) 1-713-984-8855, Fax 1-713-984-1793 www.blackmidas.com or email rs-etc@blackmidas.com</p>	<p>RALPH E. DAVIS ASSOCIATES, INC. <i>International Consultants — Petroleum and Natural Gas</i> www.ralphedavis.com</p> <p>Reserve Evaluation • Reservoir Studies • Geologic Studies Coalbed Methane Development • Property Acquisition and Sales • Expert Witness</p> <p>1717 St. James Place, Suite 460 - Houston, TX 77056 Tel: 713-622-8955 Fax: 713-626-3664 <i>Proudly serving the industry for over 80 years.</i></p>	<p>1360 Post Oak Blvd. Suite 2500 Houston, Texas 77056</p> <p>Tel: (713) 850-9955 Fax: (713) 850-9966</p> <p>Also: UK, Singapore, Russia, Argentina and Australia www.gaffney-cline.com</p>
<p>BLADE ENERGY PARTNERS</p> <p>Laboratory & Analysis Services</p> <ul style="list-style-type: none"> Materials Selection: <ul style="list-style-type: none"> H₂S, CO₂, HTHP Carbon Steels, CRA's Elastomers Root Cause Failure Fracture Evaluation Corrosion Testing <p>Inhibitor Design/ Implementation</p> <p>16225 Park Ten Pl, Ste 450, Houston, TX 77084 Tel: (281) 206-2000 • Fax: (281) 206-2005 Email: rmcnealy@blade-energy.com Website: www.blade-energy.com</p>	<p>DEGOLYER AND MACNAUGHTON</p> <p>WORLDWIDE PETROLEUM CONSULTANTS</p> <p>5001 Spring Valley Rd., Ste. 800 East, Dallas, TX 75244 Tel: 214-368-6391 Fax: 214-369-4061 Houston Office</p> <p>5151 San Felipe, Ste. 950, Houston, TX 77056 Tel: 713-273-8300 Fax: 713-784-1972 Email: degolyer@demac.com www.demac.com</p> <p>DALLAS HOUSTON CALGARY MOSCOW</p>	<p>H.J. Gruy and Associates, Inc. Worldwide Petroleum Engineering and Geoscience</p> <p>Reserve Determinations Market Valuations Geologic Studies Expert Testimony Petrophysical Analysis Arbitration Seismic Interpretation Commercial Models Reservoir Simulation Risk Analysis Stochastic Evaluations Acquisition Screening</p> <p>Three Allen Center Plaza of the Americas Bldg. 333 Clay Street, Suite 3850 600 N. Pearl Street, Suite 2230, LB 150 Houston, Texas 77002 Dallas, Texas 75201 TEL: (713) 739-1000 TEL: (214) 720-1900 FAX: (713) 739-6112 FAX: (214) 720-1913 hjgruy@hjrgruy.com dalgruy@hjrgruy.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>EDINGER ENGINEERING INC. PETROLEUM ENGINEERS</p> <p>Property Valuation Management & Operations Secondary Recovery—Reservoir Studies Estate & Trust Appraisals</p> <p>Hightower Bldg., Oklahoma City, OK 73102 (405) 232-6315 fax: (405) 232-8136</p>	<p>Subscribe to SPE Drilling & Completion</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>

<p>Subscribe to SPE Journal</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>	<p>IPR GROUP OF COMPANIES (Improved Petroleum Recovery)</p> <ul style="list-style-type: none"> Oil and Gas Exploration and Production Integrated Technologies for Reservoir Management and Field Development Oilfield Services and EOR Applications Technology Transfer <p>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</p> <p>London (44) (207) 887-1303 (44) (207) 887-6100 iprgroup.uk@iprgoc.com</p> <p>Cairo Phone: (20) (2) 2358-3235 Fax: (20) (2) 2380-1717 ipr@iprcairo.com</p>	<p>Subscribe to SPE Production & Operations</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>
<p>HAAS PETROLEUM ENGINEERING SERVICES, INC.</p> <p>Robert W. Haas, P.E., President</p> <p>2100 Ross Ave., Suite 1450 Office (214) 754-7090 Dallas, TX 75201 Fax (214) 754-7092 Email: haas@haasengineering.com www.haasengineering.com</p>	<p>iReservoir.com, Inc. Geophysics Geologic Modeling Petrophysics Reservoir Simulation</p> <p>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.</p> <p>1490 W. Canal Court, Suite 2000 Ph. 303-713-1112 Littleton, CO 80120-5643 Fax. 303-713-1113 E-Mail: meng@iReservoir.com www.iReservoir.com</p>	<p>LaRoche Petroleum Consultants, Ltd. 25 Years of Quality Service</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>T. Scott Hickman & Associates, Inc. Consulting Petroleum Engineers Experienced Throughout U.S.A.</p> <p>Due Dilligence Prospect Screening Reserve Evaluation Property Acquisition Reservoir Studies Litigation</p> <p>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</p>	<p>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</p>	<p>LONQUIST & CO. LLC Petroleum Engineers • Energy Advisors 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>IPT <i>Integrated Petroleum Technologies</i> Since 1991</p> <p>Specializing in the integration of modern completion, stimulation and reservoir technologies</p> <p>The industry leader in real-time hydraulic fracturing interpretation, stimulation fluid and equipment optimization</p> <p>Innovative use of and expertise in pressure transient analysis and reservoir simulation</p> <p>Denver, Colorado Oklahoma City, Oklahoma (303) 216-0703 (405) 842-2576 co@iptengineers.com ok@iptengineers.com</p>	<p>SPE Training Marketplace Does your company offer upstream oil and gas courses?</p> <p>For listing information: Call +1.972.952.9393 • Email: trainingmkt@spe.org</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>INTERNATIONAL PETROLEUM CONSULTANTS ASSOCIATION INC. Dr. Paul Hood & Blake Kemper freelance Consultants Compositional & Black Oil Simulation, EOR, Economics – Carbonates & Clastics, USA, Middle East, North Sea</p> <p>P.O. BOX 1657, EVERGREEN, CO 80437-1657 Tel: (1) 303-670-3754; GSM (1) 303-218-0109 Email: ipcainc@attglobal.net</p>	<p>David R. Keller International Petroleum Consultant</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>MHA Petroleum Consultants Worldwide Petroleum Consultants</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>INTERNATIONAL PETROLEUM CONSULTANTS ASSOCIATION INC. Dr. Paul Hood & Blake Kemper freelance Consultants Compositional & Black Oil Simulation, EOR, Economics – Carbonates & Clastics, USA, Middle East, North Sea</p> <p>P.O. BOX 1657, EVERGREEN, CO 80437-1657 Tel: (1) 303-670-3754; GSM (1) 303-218-0109 Email: ipcainc@attglobal.net</p>	<p>KMS Technologies Custom borehole systems & permanent sensors Technology development / transfer / evaluation Petrophysics & Geophysics consultancy</p> <p>Tel: 713.532.8144 or 281.293.8144 Fax: 832.204.8418 www.KMSTechnologies.com</p> <p>KJT Enterprises Inc. 6420 Richmond Ave., Suite 610 Houston, TX 77057 USA</p>	<p>Mann Associates Petroleum Consultants</p> <p>1045 Via Tranquila • Economic Valuation Santa Barbara, CA 93110 • Expert Testimony E-Mail: mannon@cox.net • Reservoir Engineering (805) 682-8480 • Geology (805) 687-7787 (Fax) • Petroleum Software</p>
<p>INTERNATIONAL PETROLEUM CONSULTANTS ASSOCIATION INC. Dr. Paul Hood & Blake Kemper freelance Consultants Compositional & Black Oil Simulation, EOR, Economics – Carbonates & Clastics, USA, Middle East, North Sea</p> <p>P.O. BOX 1657, EVERGREEN, CO 80437-1657 Tel: (1) 303-670-3754; GSM (1) 303-218-0109 Email: ipcainc@attglobal.net</p>	<p>LEE KEELING AND ASSOCIATES, INC. International Petroleum Consultants</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 www.lkaengineers.com e-mail: keeling@lkaengineers.com</p>	<p>Mann Associates Petroleum Consultants</p> <p>1045 Via Tranquila • Economic Valuation Santa Barbara, CA 93110 • Expert Testimony E-Mail: mannon@cox.net • Reservoir Engineering (805) 682-8480 • Geology (805) 687-7787 (Fax) • Petroleum Software</p>
<p>International Reservoir Technologies, Inc. INTEGRATED RESERVOIR STUDIES</p> <p>Seismic Interpretation & Modeling Stratigraphy & Petrophysics Reservoir Simulation Enhanced Oil Recovery Studies Well Test Design & Analysis Well Completion Optimization</p> <p>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</p>	<p>International Reservoir Technologies, Inc. INTEGRATED RESERVOIR STUDIES</p> <p>Seismic Interpretation & Modeling Stratigraphy & Petrophysics Reservoir Simulation Enhanced Oil Recovery Studies Well Test Design & Analysis Well Completion Optimization</p> <p>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</p>	<p>Mann Associates Petroleum Consultants</p> <p>1045 Via Tranquila • Economic Valuation Santa Barbara, CA 93110 • Expert Testimony E-Mail: mannon@cox.net • Reservoir Engineering (805) 682-8480 • Geology (805) 687-7787 (Fax) • Petroleum Software</p>
<p>Subscribe to SPE Reservoir Evaluation & Engineering</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</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>Subscribe to SPE Drilling & Completion</p> <p>Call +1.972.952.9393 or subscribe online at www.SPE.org.</p>

Marshall Miller & Associates, Inc.

International Petroleum Engineers
Specializing in
Oil & Gas Evaluations
Coalbed Methane Assessments
Reservoir Analysis & Project Economics

corp@mma1.com • (276)322-5467

Office Locations: VA • WV • KY
NC • PA • KS • LA • TN • affiliated
Office Location: Shanxi Province, PRC

www.mma1.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>

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

NECI

Northeastern Energy Consulting, Inc.
ENGINEERING SERVICES

Well Operations • Drilling Supervision • Reserve Appraisals
Pittsburgh, PA (724) 444-0875

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.

NITEC LLC

International Petroleum Consultants

Data Integration • Field Development Planning
Fracture Characterization • Property Modeling
Black Oil/Compositional/Thermal Reservoir Simulation
Gas Storage • Economic Evaluations

Provider of LYNX® and MatchingPro® Software

475 17th Street, Suite 1400 Ph. (303) 292-9595
Denver, Colorado 80202 Fax (303) 292-9585
www.NITECLLC.com

D.F. NORTH AND ASSOCIATES, INC. PETROLEUM AND NATURAL GAS CONSULTANTS

• Reserve Appraisals • Prospect Evaluations
• Economic/Risk Analysis • Gas/LPG Storage Studies
• Pipeline Design • Expert Witness • Computer Software
DFNAA@PRODIGY.NET
P.O. Box 7335 Off. (281) 298-1167
The Woodlands, Texas 77387 Res. (281) 367-1767

Hydraulic Fracturing Technologies

Design/Evaluation/Optimization
On-Site Consultation
Training
Laboratory Services
Industry Leading Software

Houston, Texas Tulsa, Oklahoma
(281) 367-7353 (918) 496-2071
FAX: (281) 364-1360 info@nsitech.com

SPE E&P Consultants Directory Online

Consultants—List your services now!

- Gain global exposure to potential E&P customers

Need a consultant? Search the directory for free!
• Find experts to help solve your most difficult challenges

Connect with consulting services here.

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

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

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 Strategic Studies Reserves Evaluations Geocell Models
Reservoir Simulation Enhanced Recovery Geological Analysis 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.burzlauff@si-intl.com

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

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

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

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

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

York Technical Solutions Corporation

Software Consultants

Business Analysis • Project Management • Application Development

A Microsoft Gold Certified Partner with 10 years Petroleum Engineering experience

1544 Sawdust Rd., #190
The Woodlands, TX 77380

Tel: 281-404-2679

info@ytscorp.com • www.ytscorp.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

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

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
Houston, TX 77095-2840
USA

Tel: 281-859-6464
Fax: 281-855-3004
E-mail: info@wcthou.com

The technical book resource for the petroleum engineering professional

The *new* SPE Bookstore

- Hundreds of additional titles
- New search features
- Discounted member pricing



Society of Petroleum Engineers

www.spe.org/store

