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Vice President / Partner
Certified Petroleum Geologist #6254
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EDUCATION:

- M. S., Geology, Texas A&M University, 1983
- B. S., Geology, Vanderbilt University, 1977

PROFESSIONAL PROFILE:

- Licenced Geologist and trained geophysicist with an excess of 40 years petroleum geoscience experience
- Extensive experience in all aspects of oil and gas field evaluation, acquisition and divestiture
- Particularly strong in mergers and acquisitions, new ventures, and unconventional reservoirs and reserve assessments
- Regional experience in North America (Rocky Mountains, Texas, Gulf of Mexico, Appalachia, California, Alaska, Mid-Continent, Florida, Federal Waters), Europe (UK, Poland, Germany, Italy, Spain, Romania, Albania, Hungary, Georgia), Africa, Asia, Australia, South America
- Litigation experience

WORK EXPERIENCE:

MHA PETROLEUM CONSULTANTS LLC, Denver, Colorado:

(June 2013 – Present) **Partner**

Specialist in unconventional evaluations both domestically and internationally as both lead geologist and geophysicist. Lead geoscientist on a large offshore gas field development project involving multiple reservoirs and geo-modeling to develop the FDP; evaluations of exploration acreage for conventional and unconventional gas and oil prospects/farm-in opportunities; evaluation of a large CBM geo-model to simulation model for reserve certification. Reserve, resource and asset evaluations in the USA (Rockies, California, Appalachia, Mid-Continent), Europe, Africa, Australia, New Zealand, China, Kyrgyzstan). Court certified for expert witness testimony.

PetroSkills Course Director and Instructor for “Prospect and Play Analysis” (PPA), Evaluating and Developing Shale Resources (SRE), and “Coalbed Methane” (CBM). Instructor of “Reservoir Management of Unconventional Reservoirs” (RMUR) and “Coalbed Methane Reservoirs” (CMR).

DART ENERGY, Singapore

(2011 - 2013) **Portfolio Manager / Head of Exploration**

Actively managed a balanced, growth-oriented portfolio of assets for a global unconventional gas (CBM and shale gas) including the signing of a Chinese Shale Gas PSC; maintaining the corporate reserve books and reserve audits. Provided oversight to teams to collect and evaluate data on corporate assets, managed 3rd party reserve audits, resulting in a doubling of Contingent Resource Bookings and the adding of 65.5 TCF OGIP of shale gas to corporate books.

GREENPARK ENERGY, Chesterfield, U.K.

(2008 - 2011) **Vice President Exploration**

Managed all budgets, personnel, and regulations for subsurface and drilling activities for the UK’s largest CBM company. Interpreted and created own maps on multiple CBM and shale gas projects in the UK (structure, isopach, gas content, saturation), cross-sections, log interpretations and other geologic supporting analysis to support drilling and a plan of development on PEDL 159 and drilling on other licenses. Managed the company drilling program, drilling tender process, procurement, and supervised the AFEs and site work. Worked closely with and supported the planning application process for EIA reports and council planning applications, resulting in twenty-five local planning permits and no rejections.

PETROSA, Cape Town, South Africa

(2005 - 2008) **Chief Geologist (Contract)**

Supervised team of geologists with direct technical oversight, technical training and career planning responsibility. Responsible for varied drilling and production projects in Egypt, Algeria, Sudan, Nigeria, Equatorial Guinea, Gabon, Congo, Angola, Namibia, South Africa (Braedasdorp Karoo and Orange Basins), Mozambique, Venezuela, including shallow and deep water offshore drilling. Managed reserve audits and PEER reviews.

ENERGY RESOURCE ADVISORS, Denver, CO

(2004 - 2008) **President and Chief Geologist**

As Owner and Lead Consultant, created a farm-in opportunity in the Po Valley and selling two licenses to Northern Petroleum for a Vintage Petroleum wishing to exit (a discovery has been made). Evaluated and seismically mapped a block onshore Nigeria for an African independent who concluded the deal, drilled a discovery and put that field on production. As a Project Lead for MHA Petroleum Consultants managed a project for an IOC who required prospective deals in the Rocky Mountains screened.

FOREST OIL INTERNATIONAL, Houston, TX – Denver, CO

(1998 - 2004) **Chief Geologist**

In charge of G&G activities, datarooms, and technical department, which secured partners and drilled 14+ international exploration wells. Worked with Chief Geophysicist to create the prospect and drill the Ibhubesi gas discovery offshore South Africa. Evaluated Force Energy merger, whereby the company acquired large offshore Gabon block (pre and post salt) and a CBM block in Bowen Basin Australia. Responsible to state oil companies to mentor new geoscientists on a seconded basis. Successfully acquired JV partners for South Africa, Tunisia, Italy, Switzerland, Germany, and Romania.

MAXUS ENERGY, Jakarta, Indonesia – Dallas, TX

(1993 – 1998) **Exploration / Exploitation Geology / Geophysics (Jakarta)**

(1990 – 1993) **Geologist / Geophysicist (Dallas)**

Jakarta: Team Lead of project to revitalize exploration in a mature basin with team of 10 geoscientists. Successfully led efforts to commercialize Indonesia's marginal field after a decade of failed results.

Dallas, Texas: Held titles of Project Manager, Team Lead and Exploration Project Manager for various explorations in Ethiopia, Ogaden Basin, Tunisia, Senegal, Cote d'Ivoire, Egypt, Morocco, and southern Nevada. Led teams of geologists, geophysicists, engineers and IT to create a basin analyses and relational database.

PENNZOIL, Houston, TX

(1979 – 1990) **Geologist / Geophysicist**

In varying capacities, managed leases domestically and internationally. Developed the locations and targets for, at the time, the deepest onshore well test in the USA; The Oxy Danville Mtn #1. Managed teams for Federal offshore lease sales in Alaska, California, Gulf of Mexico and Cook Inlet.

PROFESSIONAL MEMBERSHIPS:

- American Association of Petroleum Geologists
- Society of Petroleum Engineers – Life Member
- Louisiana Board of Professional Geologists
- Rocky Mountain Association of Geologists
- Denver International Petroleum Society
- Denver Well Logging Society – Life Member
- Houston Geological Society

HONORS and AWARDS

- AAPG Visiting Geoscientist (2019...)
- AAPG Vice-President of Sections 2018/2020
- AAPG Honorary Member Award (2018)
- AAPG Division of Professional Affairs Best Oral Presentation at the 2017 Annual Convention
- AAPG Division of Environmental Geosciences – President 2015/2016
- AAPG Certificate of Merit (1991, 2008)
- AAPG Distinguished Service Award (2002)
- IPA Outstanding Service Award (1998)

PEER REVIEWED PUBLICATIONS AND PRESENTATIONS:

1. "Sweet Spot Identification and Characterization in Unconventional Reservoirs" Aldrich, J. and Seidle, J. Poster presentation at AAPG Annual Convention in Salt Lake City, May 2018.
2. "Ten Rules for Successful Exploration", Aldrich, J., Oral Abstract AAPG Annual Meeting – Houston - May, 2017.
3. "The Use of 3D and 4D Seismic Technologies in Evaluating Reserves and Resources; Application of 3D Seismic and Microseismic to the SEC and PRMS Evaluations", RMAG 3D Symposium, March 2016, Denver Colorado.
4. "Recent Advances in Assessing the Commerciality of the Shale Basins of Australia: From the Precambrian McArthur Basin to the Triassic Perth Basin and Several Shales In-between", AAPG GTW International Shale Plays, April 2015, Houston, Texas.
5. "Eastern Hemisphere Unconventional Plays: The View in 2013: Hope, Hype and Hysteria" Aldrich J., Presentation to the Denver International Petroleum Society, September, 2013.
6. "Assessing and Advancing a CBM Resource Play Towards Commerciality – A Case Study from the UK". Hower, Timothy L., Jeffrey B. Aldrich, Julianna Sipeki. SPE 168809/URTeC 1581734, presented at the Unconventional Resources Technology Conference, Denver, Colorado, 12-14 August 2013.
7. "Assessing and Advancing a CBM Resource Play towards Commerciality". A case study from the UK; PEDL 159 Solway Basin. Aldrich, J., Hower, T., Sipek, J.; Oral Abstract AAPG International Meeting – Singapore , 2012
8. "Exploration Rules: Lessons from three decades in the oil patch". Aldrich, J.; Oral Abstract AAPG International Meeting – Singapore, 2012
9. "Application of the new PRMS guidelines for CBM reserve and resource assessments". A case study from Indonesia; Aldrich, J.; AAPG GTW – Singapore, March 16, 2011
10. "The use of the SPE/AAPG/WPC/SPEE PRMS reserve and resource reporting standard for unconventional plays: Assessing The CBM Potential of The UK." Aldrich, J.; SPE London Section Presentation, 2010
11. "Fundamentals of Coalbed Methane". Aldrich, J.; Presentation to the Geological Society of South Africa Western Cape Branch, November 11, 2009
12. "Seismic Interpretation Distribution and Numerical Modelling of Natural Gas Leakage on Block 2 of the Orange Basin Offshore South Africa". Boyd, Donna L.; Anka Zahie; di Primio Rolando; de Wit Maarten; Aldrich Jeff; 11th SAGA Biennial Technical Meeting 2009, pp 576-581.

13. 2008 AAPG International Convention in Cape Town South Africa Presentations, October 2008

- Core, Log, and Seismic Character of a Complete Shallow Marine to Deep Marine, Basin Floor 3rd Order Depositional Sequence: The 14A Albian Low-Stand Wedge of the Bredasdorp Basin, Republic of South Africa. Aldrich, J., Gourrah, T., Madiseng, S., and Turner, J. Poster Abstract.
 - Pitfalls, Wrong Turns and Roadblocks from the Way to a Petroleum Reserve Standard: Comparisons of the SEC and SPE\WPC\AAPG\SPEE Reserve and Resource Standards. Aldrich, J., Dippenaar, A., and Poquioma, J. Oral Abstract.
 - Albian Channel Fairway Mapping, Orange Basin, Offshore West Coast South Africa. de Lange, A., Aldrich, J., and Sissing, C. Poster Abstract
14. "The new SPE/WPC/AAPG/SPEE petroleum reserve management system". Aldrich, J and Poquioma, J; Lecture given at SPE Southern Africa Chapter Meeting, January 25th, 2008
15. "Recent activities in the continued development of the giant Ibhubesi gas field, South Africa". Berge, T., Aldrich, J., Tsehlone, F., and Vele, N. AAPG Bulletin, Vol. 88 (2004), No.13. (Supplement), AAPG International Conference, Cancun, Mexico, Abstract. October 24-27, 2004.
16. "Documentation of a New Petroleum System in the South Atlantic". Aldrich, J., Zilinski, R., Edman, J., Leu, W., Berge, T., Corbett, K. AAPG Annual Convention, Oral Abstract. 2003.
17. "Fluvial-Deltaic architecture of the Orange River Delta, examples from block 2A, AK 3D seismic survey". Aldrich, J.B. and Berge, T.B. 2000, in SAGA 6th Biennial Conference and Exhibition, 28th September – 1st October 1999, paper 15.3
18. "Fluvial-Deltaic Architecture of the Orange River Delta, Examples from Block 2A, AK 3D Seismic Survey". Aldrich, J.B. and Berge, T.B. 2000, in proceedings from the 6th Annual 3-D Symposium, RMAG and DGS, 15 pages.
19. "Are Marginal Fields Worth the Effort?" An examination of past efforts in incentives and a look forward to future potential". Aldrich, J., and Kinney, L. AAPG International Convention and Exhibition, Oral Abstract. 2000.
20. "A Win-Win commercialization of marginal fields in Indonesia by Pertamina, Migas, and YPF-Maxus Energy". 2000 Herucokro, T., Girgis, J., Aldrich, J., Thomas, B., Sambas, M. in G. Kronman, D. Felio, T.O'Connor, eds, International Oil and Gas Ventures: a Business Perspective; AAPG, pp 385-398.
21. "Joint national oil company / contractor multidiscipline marginal field teams: The dynamics of a win/win project". SPE Advanced Technology Workshop, Chiba, Japan. Aldrich, J., Girgis, J., Titus, I., Abstract. April 6-8, 1998.

22. "Petroleum Systems of the Asri Basin, Java Sea, Indonesia". In the *I.P.A. Proceedings of the Twenty - Sixth Annual Convention*, 1998, in print; Sukanto, J., Nunuk, F., Aldrich, J. B., Rinehart, G. P., Mitchell, J.
23. "Paleogene Basin Architecture of the Sunda and Asri Basins and Associated Non-Marine Sequence Stratigraphy". In the *I.P.A. Proceedings of the International Symposium on Sequence Stratigraphy* in S.E. Asia; Jakarta,;. Aldrich, J. B., Rinehart, G. P., Ridwan, S., and Schuepbach, M. A. May 1995
24. "The Stratigraphy and Age Relationships of the Jesomma Sandstone, Ogaden Basin Ethiopia". Paper given at the 2nd Geological Congress of the Peoples Republic of Ethiopia, Addis Ababa. Aldrich, J. B., Gb. Yohannes Haptzegi, Bandt, K., Jensen, T.J., Paper. 1993.
25. "The stratigraphy of the Hi-Lo #1 exploration well, Tikaboo Valley, Nevada: Proof of thrust tectonics". Nevada Petroleum Society; Aldrich, J. B., and Herring, D, Annual Field Trip. 1992
26. "Hydrothermal Alteration and Metalogenesis of the Palau-Kyushu Remnant Arc". 1983. Thesis submitted and accepted for Master of Science Degree, Texas A&M University.
27. "Alteration of Remnant Arc Debris, Site 448, Palau-Kyushu Ridge, Philippine Sea, Deep Sea Drilling Project Leg 59." Aldrich, J., Tieh, T., and Scott, R. doi: 10.2973/dsdp.proc.59.135. 1981.
28. "Hydrothermal Alteration Remnant Arc Basalts: DSDP Site 448, Leg 59". Initial Reports of the *IPOD-DSDP Leg 59*, vol. 59, 1979; and given as an oral paper at the Annual A.G.U. Convention in Washington, D.C. 1979.
29. "Alteration of Remnant Arc Debris, Site 448, Palau-Kyushu Ridge, Philippine Sea, Deep Sea Drilling Project Leg 59." Aldrich, J., Tieh, T., and Scott, R. doi: 10.2973/dsdp.proc.59.135. 1981.
30. "Hydrothermal Alteration Remnant Arc Basalts: DSDP Site 448, Leg 59". Initial Reports of the *IPOD-DSDP Leg 59*, vol. 59, 1979; and given as an oral paper at the Annual A.G.U. Convention in Washington, D.C. 1979.