

JOHN A. ANDREW, PHD
8611 D Gold Peak Dr – Highlands Ranch, CO 80130
Cell: 303-514-4984 – e-mail: Soneida6265@earthlink.net

EXPERTISE AND EXPERIENCE:

- Gas and oil exploration, prospecting, evaluation and exploitation. Western basins worked Include: Big Horn, Denver-Julesburg, Forest City, Greater Green River, Paradox, Powder River, San Juan, Williston (U.S. and Canada), and Wind River.
- Geology and geophysics (especially seismic stratigraphy), obtaining stratigraphic information from seismic data and improving seismic resolution using nonlinear vibroseis sweeps and technology.
- Administration, advertising, customer service, management, marketing, sales, and staff supervision.

EMPLOYMENT HISTORY:

9/86 - Geological/Geophysical Consultant.
Highlands Ranch, CO

Currently consulting in:

- (1) applied geology and geophysics for gas and oil exploration, prospecting, evaluation and exploitation and employing technology and the synergistic interpretation of multiple data to minimize cost and reduce risk in gas/oil exploration;
- (2) seismic stratigraphy, stratigraphic models and obtaining stratigraphy from 2D and 3D seismic data and improving seismic resolution, frequency and bandwidth using nonlinear vibroseis sweeps, methods and technology;
- (3) as an associate at TPA, developing exploration plays for sale to the exploration industry through TPA; and
- (4) developing a major oil and gas play with ES LLC in the Powder River Basin.

7/95 - StratSeis Geophysical Inc. (Partner and CEO).

9/98 Englewood, CO and Calgary, AB

Co-founded a technical consulting company specializing in seismo-stratigraphic interpretation and seismic data acquisition using nonlinear vibroseis technology. Responsible for: business development, research, seismic stratigraphy, geological integration, advertising, marketing and sales.

4/82 -- StratSeis, Inc. (Partner and CEO).

9/86 Englewood, CO.

Co-founded a seismic service company specializing in the acquisition, processing, marketing and sales of high-quality, speculative, nonlinear vibroseis-sourced seismic data to the petroleum industry. Managed an eight person sales team that marketed and sold \$15,000,000+ in seismic data, technical services and/or data processing to 115+ gas/oil industry clients.

5/80 -- Marathon Oil Co. (Advanced Senior Geologist).

4/82 Casper, WY.

Advisor and mentor to division staff; managed and consulted on the application, evaluation and testing of computer-aided exploration systems or software and taught seismic stratigraphy in domestic and international offices. Advised staff on Williston Basin projects. Mapped seismic data that identified Tin Cup Mesa Oil Field (about 4 mbo) in the Paradox Basin.

8/76 -- Shell Development Co. (Staff Geologist).

5/80 Houston, TX.

Conducted research in seismo-stratigraphic techniques and concepts. Conceived of, co-designed, tested and demonstrated a computer-aided exploration system for obtaining stratigraphic and facies information from seismic data. Taught seismic stratigraphy at Shell's in-house geotechnical school.

2/70 -- Shell Oil Co. (Senior Geologist).

8/76 New Orleans, LA.

Geological evaluation, geophysical mapping, prospect development and operations on Federal OCS lease sales (GOM and Atlantic Shelf). Identified and mapped a prospect that became a 4 tcf gas field in the 1973 sale. Managed marine Sniffer surveys in GOM and Atlantic Shelf (US and Canada).

8/68 -- Shell Oil Co. (Geologist).

2/70 Midland, and Houston, TX.

Geological evaluation and regional studies in areas of se and w TX.

9/63 -- Geophysical & Polar Research Center,

8/68 Department of Geology and Geophysics,

University of Wisconsin (Madison), Madison, WI.

Conducted geological and geophysical studies from icebreakers in Arctic and Subarctic Seas (offshore Western Siberia) and taught labs and/or quiz sections.

1963 & Mobil Oil Co., Roswell, NM and

1964 Chevron Oil Co., Billings, MT.

Conducted fieldwork in MT, ND and NM as a summer employee and geological trainee.

EDUCATION:

Formal education includes a Ph.D. in Geology with Geophysics Minor (1973) and an MS in Geology (1965) from the University of Wisconsin (Madison) and a BS in Geology from the University of Tulsa (1963). Also oil and gas industry schools, seminars and courses. Selected subjects include: exploration and exploitation geology and geophysics, computer-aided exploration techniques, software development, economics, personnel relations, staff communications, management and marketing techniques.

BIBLIOGRAPHY:

Reviewed and unreviewed publications at Shell Oil Co, Shell Development Co, Marathon Oil Co, StratSeis Inc and StratSeis Geophysical Inc. Papers presented at: 1967 and 1986 AAPG Conferences; 1972 Arctic Conference; 1984 SEG-CPS Conference (Zhuoxian, PRC); 1986 and 1996 SEG Conferences and regional AAPG and SEG meetings. Published papers on seismic stratigraphy; synergistic interpretation of magnetic, Landsat and seismic data in ne MT; surface sediments of the Northern Kara Sea; magnetic stratigraphy of Arctic Ocean sediments; and stratigraphy of ND. Recent papers describe a Lodgepole exploration model based on an integration of seismic and geochemical data, seismic problems in the Lodgepole Play and the importance of seismic frequency when resolving stratigraphy.

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PUBLICATIONS

- Andrew, John A. and Kidd, D.F., 1997, Need for frequency to see stratigraphy - examples in the Williston Basin: in: Proceedings of the H-Well Workshop, Regina, SK - 4/97.
- Andrew, John A., 1996a, Seismic examples of Lodgepole mounds in the Williston Basin: in: Exp Abs - Int'l SEG Mtg - Denver - 11/96.
- Andrew, John A., 1996b, Seismic stratigraphy - Lodgepole Play examples: in: Exp Abs - RMS-AAPG Mtg - Billings - 7/96.
- Andrew, John A., and Kidd, D. F., 1995, Why are we having problems identifying Lodgepole Mounds?: Rocky Mtn Oil Jour, 11/12/95.
- Tedesco, Steven A., and Andrew, J. A., 1995, Integration of seismic data and iodine geochemistry yields Lodgepole exploration model: Oil & Gas Jour, 9/18/95, p. 56-60.
- Andrew, John A., Edwards, D. M., Graf, R. J. and Wold, R. J., 1991, Empirical observations relating near-surface magnetic anomalies to high frequency seismic and Landsat data in Eastern Sheridan County, Montana: Geophysics 56-10, pp. 1553-1570. Also in: Abstracts of: the 56th Annual Soc of Expl Geophys Tech Prog, Houston, TX.; Am. Assoc. Petrol. Geol. Bull. Vol 70, No. 8, p. 1030 and various local societies.
- Bluemle, J. P., Anderson, S. B., Andrew, J. A., Fischer, D. W., and LeFever, J. A., 1986, North Dakota stratigraphic column: North Dakota Geol Surv, Misc. Series 66.
- Andrew, John A., 1985, The art and science of interpreting stratigraphy from seismic data: in Seismic Exploration of the Rocky Mountain Region, R. R. Gries and R. C. Dyer, editors, RMAG/DGS, Publishers, pp. 95-103.
- Andrew, John A., 1984. Interpreting stratigraphy from seismic data, in: Proceedings of the 1st CPS-SEG Joint Session, Zhouxian, Hebei Prov, Peoples Republic of China (published in Chinese).
- Andrew, John A., Bonacorsi, D. G., and *Hargrove, K. L., 1983. The use and misuse of the nonlinear vibroseis method for the acquisition of high resolution seismic data. in: Expanded Abstracts of: the 1983 Canadian Soc of Expl Geophys Tech Prog, Calgary, AB; the 1983 Soc of Expl Geophys Tech Prog, Las Vegas, NV; the 1984 European Assoc of Expl Geophys Tech Prog, London and various local societies. *Speaker.
- Andrew, John A., and Kravitz, J. H., 1974. Sediment distribution in deep areas of the Northern Kara Sea: in: Marine Geology and Oceanography of the Arctic Seas, Yvonne Herman, editor, Springer-Verlag, Publishers.
- Andrew, John A., 1973. Sediment distribution in deep areas of the Northern Kara Sea (offshore Western Siberia): Ph.D. Thesis, University of Wisconsin, Madison, Wisconsin, 70 pages.
- Steuerwald, B. A., Clark, D. L., and Andrew, J. A., 1968. Magnetic stratigraphy and faunal patterns in Arctic Ocean sediments: Earth & Planetary Science Letters, 5:79-85.
- Andrew, John A., 1967. Sediment distribution in deep areas of the Northern Kara Sea: in: Abstracts of: the Am. Assoc. Petrol. Geol. Mtg., Oklahoma City, OK.