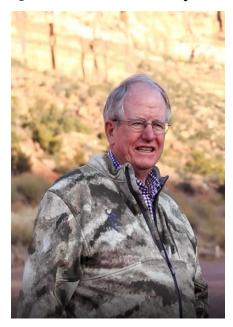
H. Roice Nelson, Jr. - Finder - Expanded Resume

(Digital Version: https://www.walden3d.com/resumes/HRN Papers/230902 HRN Expanded Resume.pdf)

Qualification Summary



Howard Roice Nelson, Jr. (Roice) has over 53 years of experience as an explorer and a principal in both entrepreneurial and technical roles in the oil and gas and mineral exploration industries. Roice is an experienced interpretation geoscientist who has spent most of his career working in the international petroleum industry. The last few years he has done several exploration projects with mining, geothermal, and aquifer geologists. As a seismic interpreter he has worked over 100 interpretation projects worldwide. Roice has proven success in using, creating, and building new tools and processes for the geological exploration industry. This started with summer internships with Pan American Petroleum (1970), and Amoco (1973), then employment with Mobil Oil in Dallas Texas (1974-1980). Roice was recruited to run a research laboratory at the University of Houston (The Seismic Acoustics Lab), which he grew from 33 sponsors (3 sponsors had just left) to 43 industry sponsors. In his three years at The University of Houston (1980-1982), Roice created or organized 5 research laboratories, including the controlling Allied Geophysical Laboratories (AGL), which is an ongoing industry sponsored research consortium at the U of H. While at the University, Roice wrote the article, "Introduction to Interactive 3D Interpretation," Oil &

Gas Journal, V. 79, No. 40, pp. 106-125, 1981; and the book <u>*New Technologies in Exploration Geophysics*</u>: Gulf Publishing Company, 281 pages, 1983 (Chinese); which forecast the impact of interactive interpretation technologies.

Roice left the AGL in November of 1982 to become the initial founder of Landmark Graphics Corporation. Roice designed Landmark's first interactive interpretation user interface and functionality, specifying software enhancements, new product requirements, and setting strategic direction. He procured sales and joint marketing agreements and created markets for Landmark in Australia, Canada, China, Europe (including Hungary when it was still behind the iron curtain), India, Latin America (Mexico, Venezuela, and Brazil), and the domestic United States. As the only oil company interpretation geophysicist initially on Landmark's staff, Roice had the opportunity to work on all of Landmark's customer's toughest interpretation problems. Roice has assisted and trained clients for his entire career, doing numerous training courses while at Landmark. Courses include: Best Practice methodologies; Interactive Interpretation Techniques; Interactive Sequence Stratigraphy; Information Management for Multi-Disciplinary Teams; Maps, Models, Immersion, and Collaboration; New Technologies in Exploration Geophysics; and Lightning Analysis Basics. Roice created a university program at Landmark Graphics Corporation which placed advanced interactive interpretation and new technologies for Landmark and for IHRDC all over the world. Landmark was <u>sold to Halliburton on 02 July 1996 for \$525 million</u>, 4 years after Roice left Landmark and lost his stock. The interactive seismic interpretation

He also created a consulting company (Walden 3-D, Inc., W3D, 1990). Roice left Landmark in 1993 to form HyperMedia Corporation and to consult on interpretation projects. Through Walden 3-D, Roice worked closely with Roger N. Anderson of Lamont-Doherty Earth Observatory of Columbia University in New York. This work started with studies of temperature-pressure driven dynamic replenishment of Eugene Island 330 through the Global Basin Research Network, and has continued with the Lamont 4-D Seismic Consortium, the Lamont Portfolio Consortium, and the formation of C.E.S., LLC, and vPatch, Inc. In addition, Roice worked for BHP for about a year on their subsalt team. As a result of this team's work, BHP won leases on over 70 Federal Lease Blocks in the Gulf of Mexico. HyperMedia attempted to commercialize a Unix, X-Windows, Motif, Client-Server, hypertext engine initially developed at Landmark in 1988. Although a site license was sold to Saudi Aramco for \$500,000. The company failed because competition was the free Mosaic and later Netscape software (1993), and Roice had guaranteed loans with Landmark stock, which stock went from \$24 per share to \$8 per share. Roice also worked for the Bureau of Economic Geology for over a year. This work involved being the 3-D seismic interpretation geophysicist on collaborative teams with Corpoven and Lagoven (Venezuela oil companies now part of Pedevesa or Petroleos de Venezuela, SA), respectively doing a production drilling study in the Orinoco heavy oil province (providing over 165 drilling locations), and a regional stratigraphic interpretation in the southern half of Lake Maracaibo. In 1998 Roice merged some consulting work being done with the <u>University of Houston's VETL (Virtual Environment Technology Laboratory, page 3</u>) and Energy Innovations to form Continuum Resources International Corporation. Continuum developed human scale visualization environments, and placed facilities at Imperial College in London, England and CURTIN University in Perth, Australia (both part of the Landmark University Program) and built a facility in west Houston. Continuum was doing real-time collaboration in human-scale visualization environments between Perth, London, and Houston in 1999, sending state changes over standard ISDN. Roice left Continuum because of management and because oil companies did not want to let interpretation data out of their control.

In 2000 Roice formed an exploration company (Dynamic Resources Corporation, DRC) to utilize industry and proprietary tools and processes to explore for, develop, and produce natural resources: hydrocarbons, geothermal energy, minerals, etc. This company has built a portfolio of over 200 exploration opportunities. Since geology does not change in human lifetimes, Roice expects to get financing for these projects some time. In 2008 Roice and friends created Dynamic Measurement LLC (DML), with the goal of leading out in a new passive electromagnetics branch in the exploration services industry, designed to explore for oil, gas, minerals, water, kimberlite pipes, etc. DML has 2 issued patent and an exclusive license to the best lightning databases available. DML has done ~50 projects from California to New York and from North Dakota to South Texas. This new exploration technology, mapping geology by datamining lightning strike databases, has demonstrated potential for oil & gas, mining, geothermal, aquifer exploration, and earthquake prediction.

In 2014 Roice and Andrea moved to their home town of Cedar City, Utah primarily to help Andrea's Mom, Maxine Shirts, who had just turned 90. We were able to help her for about five years, before she passed. Roice runs his four companies from his home, and business has been slow. He has given geology lectures at Enoch Elementary, North Elementary and East Elementary in Cedar, and a tour of Parowan Gap to 65 East Elementary 4th Graders. He also went to Bryce Canyon and gave a 2-hour lecture to 7th and 8th Grade students from Gateway Academy in Enoch. He has helped with several STEAM, STEM, Scout Expo, Children's Jubilee, Southern Utah Rock Club, and Mining Festival rock shows and demonstrations, and has sung 1-2 hours 20+ times at the Cedar City Art's Council's "Last Friday Art Walks." Having grown up in Cedar Valley, on the farm Gateway Academy is now located, Roice understands the importance of water to this area. He has given several presentations to The Central Iron County Water Conservancy District and the Iron County Commissioners about water and particularly 2 untapped aquifers within the Cedar Valley Drainage Basin. Field trips with the Iron County Commissioners and others have demonstrated the opportunity for new water sources within the drainage basin (see <u>http://www.walden3d.com/IronCounty/CedarValleyWater/</u>). In 2022, Roice joined with Steve Swann to form InterLeeV, LLC., an information management company, now with an issued Patent.

CONTACT INFORMATION

H. Roice Nelson, Jr. c: 713.542.2207 2155 W 700 S. #31 Cedar City, UT 84720 <u>rnelson@walden3d.com</u> <u>roice@dynamicmeasurement.com</u> <u>roicenelson@gmail.com</u> <u>roicenelson@protonmail.com</u>

Roice Nelson CHRONOLOGY

InterLeeV, LLC

14 January 2022 - Present

ILV established to list, compile, index, sort, retrieve, and display disparate data from multiple sources faster, easier, and more accurately, in a more critical and useful way, using 64-bit words, hashtags, or blocks in a block chain, without a lot of complicated processes or procedures (see 230303 Efficient Integration of Data).

Dynamic Measurement, LLC

October 2008 - Present

DML established to exploit using lightning data as an on-shore and shelf NSEM (Natural Sourced Electromagnetic Method) exploration tool and to create a new branch in the geophysical services industry.

Dynamic Resources Corporation

January 2001 - Present

DRC was established to identify, generate, and drill or mine prospects (good prospects never go away - they just get put on hold), until there is an opportunity to commercialize the prospects or new technologies related to them. Walden 3-D. Inc. Finder/President

May 1990 - Present

W3D established as a new company incubator, doing geotechnical consulting and mini-urban design. Primary companies started include DML, DRC, Walden Visualization Systems, vPatch, Advanced Structures Incorporated, HyperMedia Corporation. Completed major seismic interpretation projects on 5 continents, and developed several unique information technologies including The Infinite GridSM, The Knowledge BackboneSM, The Concept MachineSM, and the Abbott Atlas. *Geophysical Development Corporation (GDC)* Vice President Interpretation

April 2004 – September 2007

Opened GDC China market, and helped build an integrated interpretation business. Interpretation for Ji Dong (3700 B/D, largest find in China in 10 years), Tarim (130 BCM, 3rd largest gas field in Xinjiang), Da Qing, Xing Jiang, and Tuha Chinese Oilfields. Created GDC's TilesTM Studies.

Continuum Resources International Corporation September 1997 - August 2000 Demonstrating real-time terabyte collaboration in London England, Perth Australia, and Houston. Bureau of Economic Development, University of Texas at Austin

1995 - 1997 3-D seismic interpretation geophysicist on collaborative teams working with Corpoven and Lagoven in Venezuela. Co-Founder HyperMedia Corporation January 1991 - 2007

Designed, built, and produced a UNIX, X-Windows, Motif, Client-Server hypertext engine (publicity). Co-Founder Landmark Graphics Corporation

November 1982 - September 1992

Co-founder, only exploration geophysicist early on, established Landmark's University Program. University of Houston's Allied Geophysical Laboratory (AGL) Co-Founder University of Houston's Seismic Acoustics Laboratory (SAL) **General Manager**

January 1980 - November 1982

Managed the physical modeling facility at the SAL. Helped create and managed four new labs. Mobil Oil Corporation Geophysicist July 1974 - January 1980 Interpretation and acquisition geophysicist.

Amoco Corporation and Pan American Corporation

Summer 1973 & Summer 1970

Summer Intern and Assistant Geophysicist in Denver.

Co-Founder

Co-Founder/Manager

Finder/President

Co-Founder

Assistant Geophysicist

- Business Development

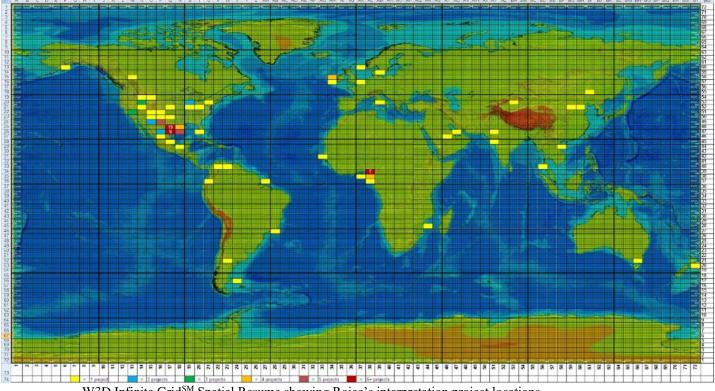
Consultant

EDUCATION

1981, MBA (Masters of Business Administration), Southern Methodist University (SMU).1974, B. S. Geophysics, University of Utah.1968, Cedar High School Redmen Graduate.

PROJECT EXPERIENCE

The map below shows locations of exploration projects Roice has worked on since 1970.



W3D Infinite GridSM Spatial Resume showing Roice's interpretation project locations.

Work as a geoscientist has provided solid experience in seismic data acquisition, processing, and interpretation. Seismic data acquisition training included work on seismic field crews in:

- Rock Springs and Green River, Wyoming (made 8-mm film of field crews for training program);
- The Great Salt Lake;
- Kalamazoo, Michigan;
- offshore Nigeria;
- offshore The Cameroons.

Running 4 seismic crews for 1 1/2 years resulted in extensive field experience in:

- Hugoton, Kansas;
- Mesquite, Nevada;
- Alvar, New Mexico;
- Findley, Ohio;
- on an Opseis land telemetry crew in Sayre, Oklahoma;
- Cedar City, Utah;
- Seminole, Pecos, and Laredo, Texas; as well as
- Gillette and Big Piney, Wyoming.

These crews used a variety of sources, including:

- shear-wave vibrators;
- P-wave vibrators;
- shot hole, Poulter staked explosives, surface explosives; as well as
- high frequency air guns on a barge in the Great Salt Lake;
- regular air guns; and
- various pressure & shear-wave piezoelectric elastic waves propagating through physical models at SAL.

Half a dozen noise studies were conducted and interpreted. Six months of seismic processing experience was supplemented by processing the physical and numerical model data at the SAL.

Regional interpretation projects include:

- The Andaman Sea, Indonesia, Malaysia and Thailand, MEPSI (Mobil E&P Services, Inc., 1975. *
- Offshore Falkland Islands, Argentina, and Uruguay, and Pelotas Basin, Brazil, MEPSI, 1975.
- Composite Report, 16.5 million acres offshore Brazil Service Contract Blocks, MEPSI, 1976. *
- The Gargano High, Italy, MEPSI, 1976.
- 10x20 mile regional study of the Adua, Asabo, and Enang Area of OML 70, Nigeria, MEPSI, 1977.
- Abu Dhabi Lease Evaluation, MEPSI, 1977.
- First regional 2-D surveys shot with the same parameters connecting Mexico and US deep water fields, NOPEC, 2003.

Farm-In Evaluations:

- Scripps Institute of Oceanography, La Jolla, California, obtained available government seismic and well data, particularly in the Andaman Sea, MEPSI, 1975.
- West Casamance Permit Shell Farmout, Senegal, MEPSI, 1976.
- Approached government ministries in Senegal and Mauritania for possible farm-in opportunities in West Africa and for permission for the Ted Nelson to collect regional seismic data, MEPSI, 1976.
- The Gulf of Kutch Reading and Bates in Tulsa, India, MEPSI, 1976.

Detailed seismic interpretation projects include:

- Greeley Basin, Colorado, Pan American, 1970.[±]
- Brady Unit, Sweetwater County, Wyoming, Pan American, 1970.
- Great Salt Lake, seismic acquisition plan, Amoco, 1973. *
- Senior Thesis (University of Utah): "A Reflection Seismic Study of the Quaternary Sediments of Yellowstone Lake," 1974.
- Block F-7 Dutch North Sea, Mobil, 1975.^{*}
- West Cameroon Blocks 308 and 309 and East Cameron 262 in the Gulf of Mexico, Mobil, 1975.*
- Puerto Rico Reef Play, MEPSI, 1976.[±]
- Block II, Amazon Delta, Offshore Brazil, MEPSI, 1976.
- Statfjord Field Reapportionment, Norwegian North Sea, MEPSI, 1977.
- Potential in Peru and Chile, MEPSI, 1977. *
- Bright Spot studies in OML 70, Offshore MEPSI, 1977.
- Dozens of projects with Landmark Graphics customers, including a year study of the Jiji sub basin for the Bohai Oil Field, People's Republic of China.
- Eugene Island 330 for the GBRN (Global Basin Research Network). Co-founded GBRN with Dr. Roger Anderson and Dr. Larry Cathles. Interpreted 3D seismic from Pennzoil and interpreted the "Red Fault," which is described in "<u>Finding a Field of 'Streams' Fluid Flow Concept Could Boost Reserves</u>," by Louise S. Durham in May of 1994. This work relates to "Development 3_D Yields New Find," by Kathy Shirley.
- Participation with interpretation team High Island A339/A340 and A563 for Pennzoil in Gulf of Mexico.
- Evaluation of 15 open blocks for BHP Petroleum in the Eugene Island area, Offshore Louisiana, for the 10 May 1995 lease sale (BHP won 2 blocks with a combined bid of \$508,470 for one of the prospects, and Chevron / LL and E; won the other key identified prospect with a bid of \$575,000).

- The Boling Salt Dome, Waller County, TX.
- A Wilcox play above the Arbuckle in Oklahoma.

Research, Processing, Velocity, Gravity & Magnetics, & Management at MOBIL/MEPSI *:

- 3-D plastic sheet model of Dutch North Sea Interpretation Project Block F-7 in the Dutch North Sea;
- Proposal paper for a feasibility study of developing hardware and software to do interactive seismic interpretation and simultaneously display the results in 3D.
- Limited BASIC and FORTRAN programming experience.
- Batch Processing seismic offshore Egypt.
- Processed 1 seismic line offshore Louisiana.
- Hale's refraction project offshore California.
- Helped build stacking velocity computer file for Lithovel Study, Gulf of Alaska.
- Interactive modeling, Gargano High, Italy; Gravity model across Andaman Sea.
- Liaison for MEPSI Geophysical Manager for three months; processed job requests, wrote cables, etc.

HONORS AND SOCIETIES

- Co-Founded Southwestern Heritage Center Historical Society (<u>swhchs.org</u>) with Alva Leon Matheson and Frank Nichols, 23 November 2021. Determination Letter converting non-profit to a <u>501 (c) 3 Non-Profit</u>, 08 June 2022. Had 351 stories in the <u>Stories Database</u> (wrote 24 of these stories), as of 01 August 2023.
- Utah Geological survey, Survey Notes, Director' Perspective: "<u>The times they are a-changin'</u>," Bill Keach, Volume 53, Number 3, September 2021.
- President-Elect, President, Past-President, Cedar City Chapter of <u>Sons of Utah Pioneers</u>, 2018-2021, Cedar City Chapter Board Member and Monuments and Trek Committee 2021-Present.
- <u>Paul Nelson's comments about growing up with an entrepreneur</u>, Chief Architect of the Northrop Grumman Integrated Digital Enterprise (NGIDE) 2.0, Northrup Grumman, ONE, 1st Q 2021, page 34.
- GSH Journal, <u>A Conversation with Roice Nelson</u>, (Geophysical Society of Houston), 29 Jan 2011, p 18-22.
- CSEG Journal, <u>Think outside the box? He doesn't even know there is a box!</u> (Canadian Society of Exploration Geophysics), Satinder Chopra and Penny Colton Interview July 2007, Jan 2008, pages 12-24.
- TLE, <u>H. Roice Nelson Jr.: Quixotic geophysics</u>, Dolores Proubasta, The Leading Edge of The Society of Exploration Geophysicists (SEG), Jul 2003, pages 622-628.
- HBJ, "<u>A Landmark Trend in oil exploration</u>," L. Brubaker (Houston Business Journal), 12 Jan 1987, p. 12.
- American Association of Petroleum Geologists (Associate Editor, Geobyte, 1985-1992).
- Canadian Society of Exploration Geophysicists, 1984-1992.
- Geophysical Society of Houston (received Honorary Membership for life, 1990).
- Houston Geological Society, 1999-2002.
- <u>Society of Exploration Geophysics (Associate Editor, *Geophysics*, The Journal of the SEG, 1989-90; <u>Enterprise Award, 1999</u>), Life Member.</u>
- Excellence of Poster Presentation: "The Stratigraphy, Sedimentology and Chronostratigraphy of the Mobil Bay Fan, Northeastern Gulf of Mexico, coauthored by D. Bradford Macurda, Jr. and Gary L. Jones, SEPM (Society for Sedimentary Geology), 07 March 1995.
- Resolution passed by unanimous consent of The Board of Directors of Landmark Graphics Corporation: "... recognizing that the success which the Company has attained has been in large measure do to Mr. Nelson's earnest efforts and untiring devotion ...," 12 January 1995.
- World Future Society, 1990-1996.
- Urban Land Institute, 1993-1996.
- European Association of Exploration Geophysicists, 1981-1994.
- Chinese Society of Scientists in 1989-1992.
- Who's Who in the South and Southwest, 1979-1987 editions.
- Dallas Geophysical Society, 1976-1980.
- Society of Exploration Geophysicists Scholarship, 1973-1974
- Sun Oil Scholarship, 1973.

- Missionary, <u>The Church of Jesus Christ of Latter-Day Saints</u>, British Mission turned England East Mission, Canterbury, Ipswich, Norwich, Harlow New Town, Islington, Hyde Park, 1970-1972.
- Phi Eta Sigma (freshman honorary fraternity).
- Pan American Petroleum Scholarship, 1969-1970.
- Phi Sigma Kappa scholarship award, 1969, in Phi Sigma Kappa (social fraternity).
- Honors at Entrance Scholarships, University of Utah (and Utah State university, turned down), 1968-1969.

SCHOOLS ATTENDED

- Basin Analysis and Sedimentary Geology, Houston, TX, 1990.
- Vertical Seismic Profiling, A Short Course and Seminar, Southeastern Geophysical Society, New Orleans, LA, 25 March 1981.
- Three-Dimensional Display Techniques, Institute for Graphics Communications, Andover, MA, May 20-22, 1980.
- 3-D Seismic Technique School, SEG, Houston, TX, 18-19 September 1979.
- Carbonate/Sandstone Short Course, Mobil FRL, North Texas, 21-25 August 1978.
- Introductory Well Logging School, Mobil ESC, Dallas, TX, 16-18 August 1977.
- HCI School, Mobil ESC, Dallas, TX, 18-22, April 1977.
- Basic Well Logging School, Mobil ESC, Dallas, TX, 1-19 November 1976.
- Gravity and Magnetics School, Mobil ESC, Dallas, TX, 1 week, April 1975.
- Seismic Exploration II, Mobil ESC, Dallas, TX, 28 October 8 November 1974.
- Mobil Oil Corporation, 1-year training, Dallas, TX, Lagos, Nigeria, and Kalamazoo, MI, 1974-1975.
- Mission: The Church of Jesus Christ of Latter-Day Saints, Called to British Mission, changed to England East Mission just before reported, Oct 1970 Nov 1972.
- N.S.F. Earth Sciences Program (Meteorology, Oceanography, and Geology), Oregon State University, Corvallis, OR, 7 weeks, summer of 1968.
- J.E.S.S.I. (Junior Engineers and Scientists Summer Institute), New Mexico State University, Las Cruces, New Mexico, two weeks summer of 1967.

ACTIVITIES

- U.S. Patent: "<u>Efficient Integration of Data into Augmented and Virtual Reality Environments</u>," H. Roice Nelson, Jr., Steven C. Swann, United States Patent Office, US Patent 11,494,952 B1, Cedar City, Utah, 08 November 2022; <u>24 August 2023 Publication</u>.
- U.S. Patent: "<u>Method for Determining Geological Surface and Subsurface Resistivity</u>," L.R. Denham, H. Roice Nelson, Jr., & D. James Siebert, United States Patent Office, US Patent 9,523,785 B2, Houston, TX, 20 Dec 2016.
- U.S. Patent: "<u>Method for Locating Sub-Surface Natural Resources</u>," H. Roice Nelson, Jr, Joseph H. Roberts, D. James Siebert, Wulf E. Massell, Samuel D. LeRoy, Leslie R. Denham, Robert Ehrlich, Richard L. Coons, United States Patent Office, US Patent 8,344,721 B2, Houston, TX, 01 Jan 2013.
- 2 Chinese news releases, each tied to a project Roice did the first interpretation on for Chinese clients: <u>First</u>

Date: Oct 12, 2007 3:41 PM Subject: Dabei-3

The gas field, known as Dabei-3, boasts an estimated reserve of as much as 130 billion cubic metres, and will serve as an important backup supply source for the west-east gas pipelines," the unnamed source told the China Daily newspaper. PetroChina's Beijing office declined to comment but the official Xinhua news agency quoted officials in the Xinjiang as confirming the company had discovered 130 bcm of natural gas.

The discovery has the potential to be the third largest gas field in Xinjiang, after Kela-2 and Dina-2 gas fields, said Dai Jinxin, a researcher with the Research Institute of Petroleum Exploration and Development affiliated with PetroChina. "Gas fields with reserves of more than 100 bcm are considered giant gas fields even globally," Dai said. Since more exploration and evaluation are needed at the new field, it is too early to give any specific figures, the source added.

"We will drill more appraisal wells to determine the final reserve at a cost of around 200 million yuan

(\$26.6 million)," the insider said.

Second

20 March 2007 06:03 GMT | last updated: 20 March 2007 07:05 GMT

PetroChina joins Bohai payday By Upstream staff

PetroChina has made a significant oil discovery in the tidal and shallow water areas of Bohai Bay in northern China, the company said at a press conference. The Beijing-based integrated giant said "a series of significant breakthroughs and important developments were accomplished at the Jidong tidal and shallow water areas in Bohai Bay Basin".

With an initial daily output of 500 tonnes (3700 barrels), the Bohai Bay field is "the largest find in China in 10 years," said PetroChina's vice-chairman and president Jiang Jiemin at a press conference in Hong Kong yesterday. No other details on the field were revealed.

The company said it also made breakthroughs at "Baibao, Jiyuan and the surrounding areas of Sulige in the Erdos Basin, the northern part of Songliao Basin, the Sichuan Basin, and the northwestern rim of the Junggar Basin," China Daily reported. PetroChina said it now has six domestic oil and gas fields with annual output "breaking through 10 million tonnes of oil equivalent" including Daqing, Changqing, Tarim, Xinjiang, Liaohe and the Southwest oilfields.

Another large Chinese oil company CNOOC Limited yesterday revealed a large oil and gas discovery in Bohai Bay called Bozhong (BZ) 28-2E.

CNOOC Ltd said it had made four discoveries in the Yellow River Mouth Sag of Bohai Bay and hoped "to develop a large-scale cluster of oil and gas fields in the future".

- Instructor, <u>Lightning Analysis Basics</u>, 421-page manual:
 - 1. Iron Springs Resort, 19-21 January 2021
- Instructor, "Interactive 3-D Seismic Interpretation Emphasizing Carbonates," H. Roice Nelson, Jr., Dubai Princess Hotel, Interadigm Course, 27 September 2011:
 - 1. Introductions and Overview
 - The Brain Exercise
 - 2. <u>Relating Seismic Acquisition, Processing, and Interpretation</u>
 - SketchUp Exercises
 - <u>SALNOR Workshop & Answers</u>
 - 3. <u>Seismic Interpretation Principles and Workflow</u>
 - <u>Contouring Exercise</u>
 - <u>Carbonate Outcrop Workshop</u>
 - Carbonate Patterns Workshop
 - 4. <u>Seismic Attributes</u>
 - 5. Advanced Seismic Interpretation and Reservoir Characterization
 - 6. <u>Seismic Exploration Breakthroughs</u>
- Arranged publication into Chinese of Fred J. Hilterman's book: "Seismic Amplitude Interpretation," <u>Cover</u>, <u>Bio</u>, <u>Preface</u>, 29 Nov 2006.
- <u>GSH 1999 Spring Symposium / 15th Annual SEG Gulf Coast Technical Meeting and Virtual Reality Tour</u>, page 13, H. Roice Nelson, Jr. General Chairman, Continuum Resources Corporation, April 15-16, 1999.
- Co-authored with Dr. Carolyn Sumners and Gary Young, "<u>Astronomy of the Ancient Americas</u>," Houston Museum of Natural Science, Burke Baker Planetarium Show, Houston, TX, 03 January 29 May 1992.
- Instructor, Landmark School: Interactive Sequence Stratigraphy:
 - 1. Sydney, Australia, 25 February 1991
 - 2. Melbourne, Australia, 26 February 1991
 - 3. Perth, Australia, 28 February 1991 & Perth, Australia, 01 March 1991
 - 4. Jakarta, Indonesia, 4 March 1991 & Jakarta, Indonesia, 5 March 1991
- Instructor, Landmark School: <u>New Technologies in Exploration Geophysics</u>: Prior to Congreso Venezolano De Geofisica, Caracaras, Venezuela, one day course for Venezuelan oil company managers, 20 Oct 1990.
- Instructor, Landmark School: Interactive Interpretation Procedures:
 - 1. Public Schools:
 - New Orleans, LA, April, 1987.

- London, England, 26-29 May 1986.
- Washington D. C., October, 1985.
- Denver, CO, 15-26 July 1985
- London, England, 3-13 April 1985
- Houston, TX, 1-12 April 1985
- Calgary, Alberta, Canada, 19-27 February 1985
- New Orleans, December 1984
- Houston, TX, October 1984
- 2. Private Schools:
 - Amoco, New Orleans, LA, August 1986
 - Orion Surveys, Kristiansand S., Norway, 27-28 February 1986
 - Placid, New Orleans, 19-21 November 1985
 - Texaco, New Orleans, 28-30 October 1985
 - Texaco, Los Angeles, CA, 24-26 June 1985
 - Marathon International, Houston, 22-25 April 1985
 - Shell Research, The Hague, 21-25 January 1985
- Instructor, IHRDC school: <u>New Technologies in Exploration Geophysics</u>:
 - 1. Public Schools:
 - Derah Dun, India, 16-20 December 1985.
 - Denver, CO, 5-7 September 1984.
 - London, England 25-27 June 1984.
 - Calgary, Canada May 2-4, 1984.
 - Houston, Texas March 21-23, 1984.
 - Derah Dun, India, 7-11 November 1983.
 - Caracas, Venezuela, 20 October 1983.
 - London, England, 6-8 June 1983.
 - Denver, CO, 18-20 May 1983.
 - 2. Private Schools:
 - Getty Oil, Houston, TX, 4-7 June 1984.
 - IFP, Paris, France, 29 February 2 March 1984.
 - Bass Enterprises, Steamboat Springs, CO, 6 December 1983.
 - Caracas, Venezuela, October 1983.
- Instructor, Landmark Graphics Sales Training, March 25, 1984.
- Guest Speaker, Pacific Coast Section of the SEG:
 - 1. Los Angeles, CA, 02 November 1988
 - 2. Bakersfield, CA, 01 November 1988
 - 3. Ventura, CA, 31 October 1988
- Guest Speaker, Pacific Coast Section of the SEG:
 - 1. Bakersfield, CA, 14 May 1985.
 - 2. Los Angeles, CA, 13 May 1985.
- Guest Speaker, Southeastern SEG, New Orleans, LA, 30 April 1985.
- Guest Speaker, CPS/SEG Joint Meeting, Beijing, People's Republic of China, 12-16 April 1985.
- Guest Speaker, Houston Geophysical Society's Modeling Symposium, Houston, TX, 10 May 1983.
- Co-Authored with Martha Ellyn Nelson, and helped put on a two-hour musical with twelve original songs, "Swedish Roots," Dallas First Ward, Dallas, TX, 1979, Maplewood II Ward, Houston, TX, 15 April 1983.
- Guest Speaker, Tulsa Geophysical Society's Seminar "Computer Assisted Interpretation," Tulsa, OK, 21 March 1983.
- Guest Speaker, Austin Geological Society, Monthly Meeting, Austin, TX, 7 March 1983.
- Guest Speaker, Texaco, Thursday Research Seminar, Houston, TX, 2 December 1982.
- Guest Speaker, Distinguished Lecture Series, Southern Utah State College, Cedar City, UT, 5 August 1982.
- Guest Speaker, CDC Petroleum Executive Seminar, Minneapolis, MN, 12-14 July 1982.
- Lecturer, SAL 3-D Seismic Techniques School, Oxford, England, 15-17 June 1982.

- Lecturer, SAL 3-D Seismic Interpretation Workshop, Norwegian Petroleum Society, Kristiansand S., Norway, 10-12 March 1982.
- Lecturer, SEG 3-D Seismic Techniques School:
 - 1. Houston, TX, 9-10 December 1981
 - 2. Calgary, Alberta, Canada, 8-9 June 1981.
- Guest Speaker, CDC Petroleum Executive Seminar, Minneapolis, MN, 3-5 June 1981.
- Quoted in John Noble Wolford's "<u>The Mapmakers</u>," Alfred a. Knopf, New York, 1981.
- First documented <u>Description of Geophysical Work Experience</u>, <u>December 1979</u>.

CO-ORGANIZED THESE SEG RESEARCH COMMITTEE WORKSHOPS:

- Anderson, R. N., Lamont-Doherty Geological Observatory; Cathles III, L. M.; Nunn, J.; Nelson, Jr., H. R.; Klaveness, A., Klaveness Research; "Active Fluid Flow in Dynamic Sedimentary Basins," Workshop at SEG Sixty-Second Annual International Meeting and Exposition, New Orleans, LA, 25-29 October 1992.
- Bahorich, Mike, Amoco Research; Bowen, Bruce, TGS; Brumbaugh, Conoco; Dorn, Geoff, ARCO; Johnston, Dave, Exxon; Jones, Gary and Nelson, Jr., H. R., Landmark/LGC; "Sequence Stratigraphy," Workshop at SEG Sixty-Second Annual International Meeting and Exposition, New Orleans, LA, 25-29 October 1992.
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INTERESTS

- A. Family (10 children, 17 grandchildren, send out a weekly <u>Grandkidlet</u> since 07 January 2018, and have held <u>The Annual Nelson Grandkids Summer Science Camp</u> each summer from 2010-2023):
 - 1 2010 July 7-10: <u>Geography & Condensation</u>; <u>43 page book</u>.
 - 2 2011 August 8-10: Mining & Infinite Gridsm; 60 page book.
 - 3 2012 June 27-29: Geocaching & GPS; 61 page book.
 - 4 2013 July 22-24: Volcanoes and Surveying; 59 page book.
 - 5 2014 July 03-05: Patterns, Computers, & Programming; 41 page book.
 - 6 2015 June 05-11: Archaeology, Petroglyphs, Petrified Forest; 46 page book.
 - 7 2016 July 06-08: <u>html programming</u>; <u>61 page book</u>.
 - 8 2017 August 02-03: <u>8-G: Geography, Genetics, Genealogy, Grandma, Grandpa, Geology,</u> <u>Geophysics, & Guitar; 47 page book</u> taken from <u>174 page book</u>.
 - 9 2018 July 01-05: Hot Springs & Continental Divide; 17 page book.
 - 10 2019 June 18-20: Science and Engineering of iFLY; 41 page book.
 - 11 2020 July 20-24: Engines; <u>34 page book</u>.
 - 12 2021 June 27-30: <u>Gravity</u>; <u>36 page book</u>.
 - 13 2022 June 27-30: Light; <u>41 page book</u>.
 - 14 2023 June 10-12: <u>Water; 45 page book</u>.
- B. Church (Houston Temple Worker, 17 February 2009-20 January 2014; Cedar City Temple Worker, 14 December 2015 to Present, except for COVID shutdown; and Cedar City Family History Center Consultant, 3-hours weekly since fall of 2014, except for COVID shutdown, Science Camps, and trips); History (President-Elect, President, Past-President, Board of Directors, Chairman Monuments & Trek Committee Cedar City Chapter of Sons of Utah Pioneers, also member of Iron County Historical Society); Interested in Religious Traditions (see Table 3a-4 The Gods of Mankind, in An Open Mind); & swhchs.org (currently planning the headquarters, museum, stories database, historical trails & associated entities: [Movie Studio, to leverage stories]; [350 pre-1900 wagons to be moved to Cedar City]; and [West World Heritage City, a 2,000 acre western cowboy entertainment venue think Cowboy Country Disney Land]).
- C. Work (Continue Making a Difference); Lightning Analysis; Seismic Acquisition and Interpretation (2-D and 3-D); Geotechnical Integration (built a digital model of all of the wells in Cedar Valley in September of 2005); Cosmology; Creativity; Entrepreneurship; Pattern Finding; People; Presentations; World-Wide-Web (Hypermedia; designed and built a UNIX, MOTIF, client-server, class-menu driven, hypertext engine with hyperlinked overlays for geological interpretations 1988-1994), prototyped a database driven with spatially indexed web pages for Iron County, emphasizing water issues in the Cedar Valley Drainage Basin); Experiences in England in 1970 led to starting a project with Raymond Gardner, now Walden 3-D, Inc. The initial vision statement was "Building 3-D Intelligent Cities," evolving to "Designing Responsive Environments" (for urban and rural planning activities). Strength is spatial relationships. Vocation, geophysics and geology, is spatial problems. Avocation, urban planning, is spatial problems. Urban Planning interests resulted in <u>The Urban Machinesm</u>, urban planning projects described at www.walden3d.com, Rainbird Village (2021. see our-people), and World Wide Holdings (2022).
- D. Music (Choirs: sing in our Ward Choir; have sung in Cedar City Messiah, except COVID year, since moving home in 2014, and brought <u>Ken Turner's Christian Painting Collection to the Cedar City Messiah</u> <u>in 2015</u>; typically sing in 4 concerts per year with the <u>Cedar City Master Singers</u>); writing songs with guitar

(see <u>psalmscountdown.net</u> for 439 recorded songs, including putting <u>156 Psalms</u>, and <u>other scriptures</u> to the music of my songs, including <u>the Book of Job</u> [twice: <u>Job; & Roice</u>], the entire <u>Book of Mormon</u> with each chapter as a four line stanza, including with unique <u>people</u>, <u>creation date</u>, & <u>image</u> indices [below, where a



thumbnail image links to the Song or Psalm the image is posted with] replicated with 8 layers of transparency); Reading (Literature, History, Science Fiction, Anthropology, etc.); and Writing (<u>Prime</u> <u>Words</u> [Stanzas], An Open Mind, Stand Back Up);

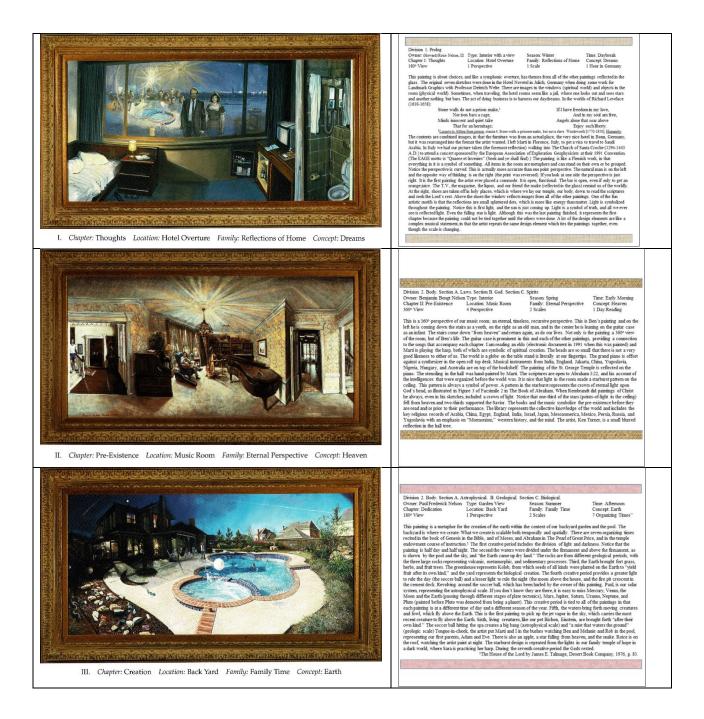
E. Outdoors: <u>Rock Collecting</u>; gardening; slow jogging/fast walking:

Start	End	Miles
07 Nov 2022	02 Sep 2023	381.77
01 Dec 2021	07 Nov 2022	511.25
08 Nov 2020	30 Nov 2021	769.20
06 Nov 2019	09 Nov 2020	1,028.75
06 Nov 2018	05 Nov 2019	635.25
15 Feb 2018	06 Nov 2018	369.85
15 Nov 2017	15 Feb 2018	133.25
07 Nov 2016	14 Nov 2017	667.10
09 May 2016	06 Nov 2016	284.70
TOTAL		4.781.12 miles

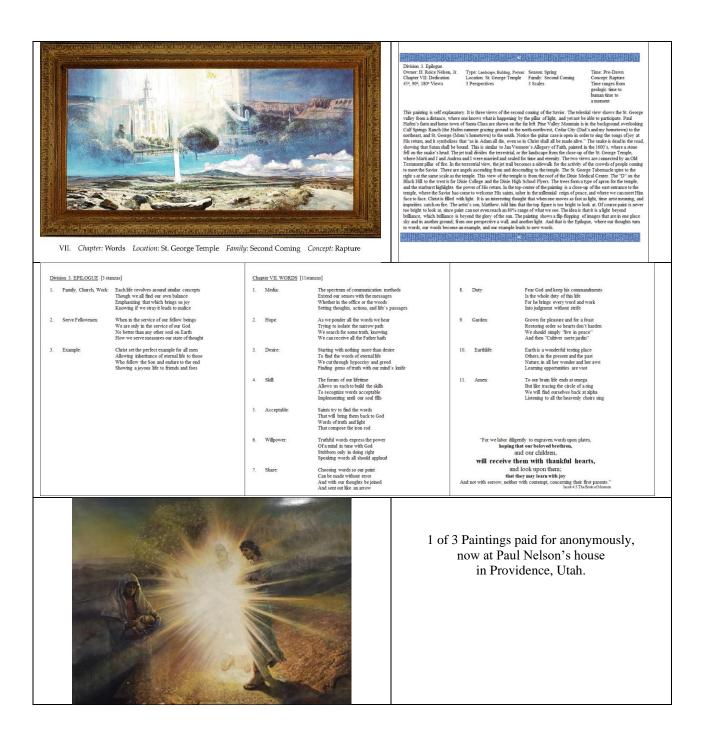
F. Art (designed 9 & commissioned 13 original paintings by <u>Kenneth R. Turner</u> to go with poetry efforts, named <u>Prime Words</u> - click on images below for larger view).

			A Personal Note To The Reader PRIME WORDS – a poem built around 797 concepts	
		PRIME WORDS	Organized in seven chapters, the poem describes ways in which words and their source, thoughts, effect our individual lives, mankind, and the universe. The reader will hopefully find something that expands	
	Prime Words	H. Roice Nelson, Jr.	understandings, as I did in compiling others thoughts (along with my own thoughts) into stanzas. I especially hope our children will refer to and gain strength from this effort. This printing is a work in progress, and is eventually intended to be published as an ELDO (Electronic Document) that users can	
		21 June 2014	use to build and polish their own set of Prime Words. There are dozens of stamas that will be thrown out and dozens that will be reordered, including the four duplicated words in the next printing / distribution. In addition, there are several stanzas that have been named but have not been written yet, and the name is	
	a noom	Thoughts about 979 entities (nouns), And their place as a foundation of language.	acting as a place holder (please write out your version and sendit to me). In proofreading this first complete edition I realized how much I have to learn from the words collected herein.	
	a poem	And their place as a foundation of language.	Few, if any of the ideas in the poem are original. The descriptions of the power of thoughts and words are influenced by a variety of cultures; including but not limited to Mormonism (Indiai-Christianity), Americanism (capitalistic-democracy), and the geoscience branch of the international of and gas	
		A set of 791 (7*113) four line stanzas, Amateur poetry written for my children.	exploration and production community. The 797 prime word entities of the poem are divided into 3 divisions, 7 chapters, and theninto 3 sections in each of the 5 chapters in the body. Eight original oil paintings by Kenneth R. Turnet were commissioned to introduce the chaldren and summarize the 7	
	Ken Turner Painting Packet (Tootnotes not included)	Amateur poetry written for my chaoren. Shared to demonstrate a portable electronic replacement for books:	chapters. There are 41 original songs written out in the various chapters and included on the enclosed CD. In addition, a separate video tape of a melodrama Marti and I made with some friends the weekend we zot enzagard is available to round out the multi-media nature of this project.	
		ELDO (Electronic Document) a solar-powered electronic hyperjournal.	This effort is dedicated to my parents, Howard, R. Nelson, Sr. and Pauline Hafen Nelson. It does not seem enough to say the prime word THANKS. But Mom, thanks for teaching me about the powers contained in	
		First Published 1991	books and how to think. And Dad, thanks for showing me the meaning of patience, integrity, and how to work and endure. Hopefully this work will help show my thanks for the opportunity to live and to think. In describing a small part of the legacy accompanying living, this second is akin to leaving our children a	
1	H. Roice Nelson, Jr.	Copyright © 1991-2014	journal of my thoughts and philosophical musings from December 1985 through publication.	
	21 June 2014	Walden 3-D, Inc. 211 Baker Road #382	With love and best regards, H. Roice Nelson. Jr.	
1	Walden 3-D, Inc.	Barker, Texas 77413	"Postry is not a monument to the post. Nor is it a slice of his wisdom, dished out to a hungry world. (A post ravely says anything the	
	Continuing to make a positive difference?	All rights reserved. Except for financial gain this poem, or parts thereof, may be reproduced in any form without permission of the author. Please pass on how the material was used. Any	rest of the world doesn't already know. He simply stimulates our awareness of it. He helps is identify universal feelings." "Why does he do it?Because poetry is just as therapeutic for the writer as it is for the reader."	
		without permission of the author. Please pass on how the material was used. Any printing, copying, duplication, or reproduction of this material or any portion of this	If a poem makes you appreciate, or empathize, or resolve, or relive, or simply think; then the poet has served his purpose and ransmath himself in the screenes."	

Contraction of the second				Sara Ellyn Nelson This is a standard group spirits, and pure light or	L 1 n Bengt M R portrait, e energy (E	velson obert Llewe‼yn Nelson xcept for the worlds wit ≔mc²). The exception is	hout number behind the children. Th the shooting star, which is Lucifer f	Painted in December of 1990
	cation Location: Trailing Clouds Family: Chi n, Benjamin Bengt, Robert Llewilyn, (Howard) Roice, I			follow him. In the words follow him, in the words it seems appropriate to a journal of my feelings, p	C T H N B Fr tart this bo hilosophic	Aur birth is but a sleep ar the soul that rises with u lath had elsewhere its se lot in entire forgetfulnes tut trailing clouds of glos rom God, who is our ho Ode (Intimations of Imms ook with our children's al musings, and though	ad a forgetting s, our life's star, tting. And commeth from afar s, and not in utter nakedness, y do we come	ken as an attempt to pass on a
Division 1. PROLOGUE	[3 stanzas]	Chapter 1. THOUGHTS	[31stanzas]					
1. God:	He is the one God and the Father of all spirits Speaking so we may gain all He has and become one His body of flesh and bones is intelligent above all Listen for his voice saying, "This is my beloved Son"	1. Mindwalk:	Have you ever gone alone For a walk in your mind Searching high and low For whatever you may find		8.	Accomplishment:	Oh the power of our thinking And the strength of all our thou Look at all that follows concept Our words, works, and all we'r	ts
2. Jesus Christ:	Firstborn of the father, the word in the beginning Creator of earth, Jehovah said, "Before Abraham was, I am." Born of the vigin Mary, the Lamb of God was slain In triumph and m Jelov, our Redeemer brought resurrection	2. Motive:	Thoughts in our most private mom When we choose that fork in the r Not sure of outcomes from the hin Of what will grow from choices so	oad ts	9.	Others:	Associates may have acquired Stronger thoughts than we yet h Driving our lives along their pa If we let them, by not being bol	th
3. The Holy Ghost	A personage of Spirit, sent down from heaven To dwell in our hearts, teaching gospel righteousness The power of the Holy Ghost fills us with peace and joy Freely revealing mysteries, to natural unen foolishness	3. Observation:	Vicariously learning as we watch Others, in the present and the past Nature, in all her wonder and her a Learning opportunities are vast	we	10.	History.	A record of trials and problems Seldom of great accomplishmen Life's many hard to find gens Seem hidden, found from hints	ıts
		4. Meditation:	Good thoughts mend up our soul Taking us past the earth, or time To a glimpse of heaven, or eternity Insights helping the universe to rhy	yme	11.	Choice:	We alone control our mind Naming the players on the stage With hymns or prayers we find The way, eternal life our wage	
		5. Sponge:	Thoughts take up little room Since intelligence is light and truth Our hearts and minds consume Input of all facts of reasonable pro		12.	Analysis:	When we make a phase spectru Of our thoughts, words, and we Some build and others tear dow Our essence across the apex ha	rks n
	"For we labor diligently to write, to persuade our children, and also our brethren, to believe in Christ,	6. Dream:	Images created in our minds eye Emotions, and abstractions new A release from reality, true reverie Beauty, honor, an ideal too		13.	Opportunity:	Watching for mutually benefici Remembering rain helps the flo Keeping our intent and vision's Helping progress, reaping what	wers grow end in sight
	And to be reconciled to God; For we know that it is by grace That we are saved, after all we can do." 2Nophi25:23 The Book of Memon	7. Goal:	We meet our intentions and object By thinking a project through in d Duplicating numerous hours of pro- Accomplishments for all the world	etail actice	14.	Imagination:	There is power hidden in our m If we let go, so we can see Ideas waiting for us to find And to remember what might b	
15. Right:	An intuitive mind discerns the patterns Conceiving music to play in the Astoria Creating for those to come art lanterns Compositions dedicated "Solo Deo Glaria"	22. Thinks:	It may take a decade or more To grow an idea into a think Forming intentions or a plan Lifting mankind to a paradise link		29.	Chronicle:	Numerous histories are written Ofmankind, our thoughts, and d And societies learn to build upon These, the earlier planted seeds	eeds 1
16. Left	The analytical hemisphere of our brain Discretely simplifying, like blocks of Lego Do building, life to language in the main Temporal mathematical sequences of ego	23. Integrity:	No activity or project on this eart Is worth reputation compromise Though temptation follows birth An honest code is the true prize	h	30.	Compose:	Thoughts become credible when Down in black and white to shar Appraised by impression's quiet Impact on the reader and their ye	e
17. Ideas:	Ideas are simply daydreams Unill put into useful works And work is useless motion Without doing though-out words	24. Glasnost:	As more gates open in the curtain Of iron, bamboo, and superstition Seeing beyond the vell for certair Unashamed of thoughts or missio	1	31.	Imagery:	A poet's mind may wander Past the world and yesterday To tap thoughts starting life And truths he needs to say	
18. Small:	Take from life's ocean a single drop And build something truly great Starting something that will not stop Guided by the spirit is more than fate	25. Philosophy.	Some thoughts touch the universe As does "I think, therefore I am" And some thoughts change for go The course and all the plans of m	od or bad				
19. Positive:	We must take care in our requests For we might get just what we ask Whether foretelling doorn and gloom Or heavenly light in which to bask	26. Theory:	The gedunken are the thoughts Scientists find as they dligently s For knowledge past experiments, Beyond known processes they pe	25				
20. Plan:	Thinking through a master plan A trusting and thoughtful man proposes Implementing the best he can It seems that heaven soon disposes	27. Memory:	Recall of holographic images fro Dictionary of unspeakable feeling Grow with more glucocorticoid r Regulating stress through the hipp	n our is must eceptors				
21. Kosher:	By choosing right and living the law We discover a duty no one can avoid Influencing others by what they saw Light in a copmixe disconnace's void	28. Journal:	Written memories for us and futu Mi Yung Lee reminded us why a To write out our thoughts for det It comes down to starting or cont	re generations nd how ailed reflections				









2 of 3 Paintings paid for anonymously, now at Roice & Andrea Nelson's house in Cedar City, Utah.

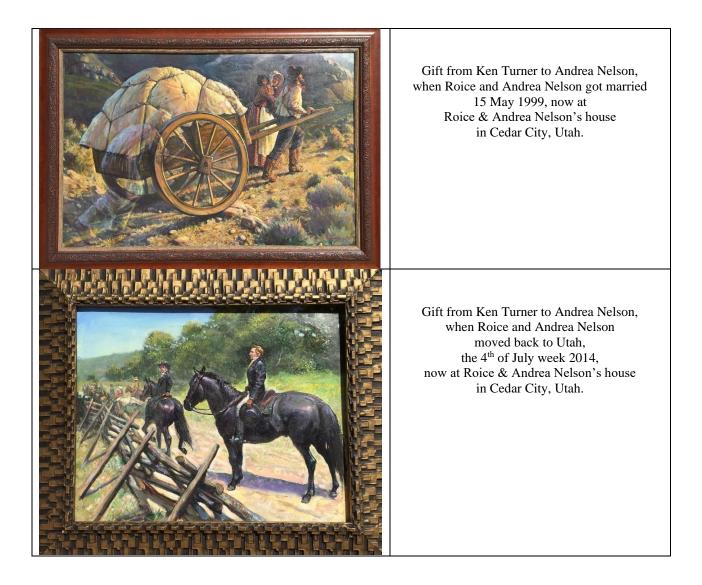
Ken brought 10 of his paintings of Christ to the <u>Cedar City Messiah Performance</u>, 13 Dec2013, and hung them with this painting with the following note:

Artists Statement:

I have been painting professionally 45 years for private, corporate, and royal patrons around the world. The subject matter has been wide and varied, often requiring a great deal of research on my part. I enjoy the synergism that comes from working with my clients. The paintings of Christ in this exhibit originated from my own desires to illustrate some of my favorite passages in the scriptures and from a series of discussions I had with Roice Nelson years ago about a proposed series of paintings of Christ. I was recently asked what I would paint for myself. These are those paintings. They are not commercially oriented but my personal expression of faith. They do not exist, however, without the interest and support of many other people, including my wife, Nell.

Ken Turner

3 of 3 paintings paid for anonymously, now at Roice & Andrea Nelson's house in Cedar City, Utah.



RELIGIOUS BACKGROUND: The Church of Jesus Christ of Latter-Day Saints

This section is included for completeness, specifically because church assignments have trained me and enhanced my natural interest in working with and teaching youth, leading field camps, and opening minds. Church volunteer work has expanded to community service, including: representing The Southern Utah Rock Club with rocks from my collection at the Children's Jubilee at the Heritage Center on the 9th of February 2019; a geology STEM lecture to all 4th Grade Students at Enoch Elementary the 22nd of March 2019; a lecture at Ruby's Inn at Bryce Canyon to 65 7th and 8th Grader students from Gateway Academy on the 23rd of March 2019; lecture on geology, petroglyphs, and dinosaur footprints to 85 4th Grader students from East Elementary at Parowan Gap on the 2nd of April 2019; etc.

- Hillcrest Ward, Cedar City, Utah, 2014-present: Minister/Home Teacher; Cedar City Temple Worker since 14 Dec 2018; Temple and Family History Consultant 28 Dec 2014 to 22 November 2022, Family History Leader at the Family History Center since 14 Jul 2019; Stake Blood Drive Coordinator for Hillcrest Ward 2014-2020.
- Nottingham Country Ward, Katy, Texas, 1984-2014: Home Teacher; Houston Temple Worker (17 Feb 2009- 20 Jun 2014); Ward Employment Specialist; Sunday School Teacher; Primary Teacher; Cub Scout Pack Committee Chairman; Teachers Quorum Advisor; Priest Quorum Advisor and Young Men's President; 2nd and 1st Councilor in Bishopric; Stake Missionary; Assistant High Priest Quorum Advisor; Venturing Crew Advisor (16-18-year-old scout leader); Ward Activities Committee Chairman.

- Maplewood 2nd Ward, Houston, Texas, 1980-1984: Home Teacher; Priest's Quorum Advisor (16-18-yearold young men) and Young Men's President; Elder's Quorum President.
- Dallas 1st Ward, Dallas, Texas, 1974-1979: Home Teacher; Teacher's Quorum Advisor (14-16-year-old young men); Elders Quorum President; Ward Clerk; Ward Executive Secretary.
- Voluntary Missionary Service in the British Mission (renamed England East Mission), 1970-1972: Canterbury, Ipswich, Norwich, Harlow New Town; Islington, and Earls Court Districts.
- University of Utah Student Wards, Salt Lake City, Utah, 1968-1970, 1973-1974: Home Teacher; Institute Choir at General Conference in April 1969; Elders Quorum Instructor.
- 5th generation member, but converted in 1968 at age 18, after growing up in a family with little interest in religion.

As a geoscientist, I love to study data and to go to the field and look at rocks and derive new insights. I love to create new opportunities (businesses) and watch how they impact friends and family. I have had a wonderful life: reading, writing, learning, teaching, camping, traveling, presentations, guitar, singing, Science Camps, hiking, running, dinners, discussions, moving rocks, going to movies, watching television, etc. However, the emotionally satisfying and fulfilling parts of my life have not been found at school or at work or even with friends, but have been found with grandkids, my wife, my children (birth and step-children), with my prayers, my faith, my knowledge of our Savior and of His prophets, and of the truths the gospel is built on.