

Innovative, insightful geophysicist with 20+ years of experience in exploration and field development. Track record of successful geologic interpretation of 2D and 3D seismic in a variety of structural and stratigraphic regimes. Collaborate with geologists, engineers, and land professionals to integrate geological and geophysical data. Working knowledge of seismic acquisition and advanced processing techniques.

Strengths include:

- Communicating and Listening
- Mentoring and Training
- Planning and Organizing
- Problem Solving and Innovation

Proven ability to mentor junior staff and work in a team environment, communicating with coworkers, management, vendors and regulatory agencies.

PROFESSIONAL ASSOCIATIONS

- American Association of Petroleum Geologists
- Alaska Geological Society
- Geophysical Society of Alaska
- Canadian Society of Petroleum Geologists

TECHNICAL SKILLS

Geology/Geophysics

- Multilateral horizontal well planning
- Seismic (3D and 2D), gravity, and magnetic interpretation
- Seismic acquisition and processing
- Pre-stack depth migration, velocity analysis, inversion, AVO, forward modeling
- Economic evaluation/ prospect risk analysis
- Development drill-site surveillance, horizontal well planning
- Check-shot and VSP acquisition

Computer Skills

- Workstation: Unix and Linux operating systems
- Applications: Landmark OpenWorks, SeisWorks, Zmap Plus, SynTool, GeoProbe,
- Exposure to Roxar/RMS, VoxelGeo and Hampson-Russell

PROFESSIONAL EXPERIENCE

CONOCOPHILLIPS ALASKA INC., Anchorage, Alaska 2005-2009

Staff Geophysicist: Heavy Oil Development Team

Responsible for all company geophysical activity in the West Sak and Ugnu reservoirs

- Developed proven reserves of 85 million barrels at West Sak Field through analysis of structural factors critical to planning of 32 multilateral horizontal wells
- Coordinated efforts of vendor and in-house specialists to test processing of 3D seismic data and evaluate seismic stratigraphic attribute (AVO) analysis of Ugnu reservoir
- Generated and loaded 3D seismic horizons and faults for geocellular modeling projects
- Advised asset team on geophysical issues essential to planning of multibillion dollar Ugnu reservoir development project

MARATHON OIL COMPANY 1997-2005

Senior Geophysicist: Alaska Business Unit, Anchorage, AK & Houston, TX 2002-2005

Responsible for geophysical activity in the Kenai Peninsula and Cook Inlet Basin

- Collaborated with and advised the asset team responsible for fast-track development and exploitation of 300 BCFE Ninilchik Gas Field
- Integrated seismic and well data resulting in drilling of wells yielding 125 BCFE proven reserves at Ninilchik, Kenai, Beaver Creek and Cannery Loop Fields
- Planned and coordinated land and transition zone 3D surveys totaling 130 square miles
- Advised land professionals in negotiations with partners, royalty owners, and regulatory agencies to form new units and participating areas

WASCANA ENERGY INC., Lloydminster and Calgary, Alberta 1995-1997

Staff Geophysicist: Heavy Oil Business Unit

Responsible for geophysical activity in the Heavy Oil District of western Saskatchewan.

- Identified seismic character patterns leading to the addition of 16.5 million barrels net proven reserves at the Milton, Plover Lake and West Buffalo Coulee heavy oil pools
- Planned, designed and monitored acquisition and processing of 50 square miles of 3D seismic data
- Interpreted 2D and 3D seismic data resulting in the drilling of over 90 development, infill and exploration wells

ARCO ALASKA INC., Anchorage, AK 1978-1994

Senior Geophysicist: Kuparuk River Unit 1992-1994

Advanced geophysical interpretation and mapping of the Kuparuk River Field using 3D seismic

- Integrated seismic and well data to generate plans for over 60 development wells, and resolve well conformance issues
- Collaborated with a multi-disciplinary team of geologists, petrophysicists, reservoir and drilling engineers, and co-owner representatives

Senior Geophysicist: Western Arctic Alaska 1987-1992

Assumed a lead role in generation, economic evaluation, leasing, and drilling of prospects in the Chukchi Sea, Beaufort Sea and onshore Arctic Alaska

- Monitored operations for a multi-well exploration drilling program
- Coordinated acquisition of seismic, gravity, magnetic and geochemical surveys
- Interacted with staff from engineering, drilling, permitting, and computer services groups

Geologist/Geophysicist/Project Leader: Interior Basins/Gulf of Alaska 1978-1987

Supervised the exploration activities of four geologists and two geophysicists

- Managed projects involving seismic acquisition and interpretation, leasing, exploratory drilling, budget planning, and geologic field work
- Analyzed the hydrocarbon potential of several basins in Influenced seismic contractors and oil companies to generate interest in frontier areas (Interior Alaska and the Gulf of Alaska, Cook Inlet, Bering Sea and North Slope)
- Integrated gravity and magnetic data to plan reconnaissance seismic surveys and stratigraphic test drilling
- Expanded understanding of drilling operations as well-site geologist

PUBLICATIONS

Clark, D.L., Whitman, R.R., Morgan, K.A., Mackey, S.D., 1980, Stratigraphy and Glacial-Marine Sediments of the Amerasian Basin, Central Arctic Ocean: Geological Society of America Special Paper 181.

Grether, W.J., Morgan, K.A., 1988, Exploration and Hydrocarbon Potential of Interior Basins, Alaska. Amer. Assn. of Petroleum Geologists Bulletin, Vol. 72, No. 2, p. 191-192.

Morgan, K.A., Clark, D.L., 1979, Glacial-Marine Sediment Classification, Central Arctic Ocean. in Abstracts with Programs, 1979 Annual Meeting, Geological Society of America (92nd), v. 11, no. 7, Boulder, Colorado.

AWARDS

Marathon Oil Corporation ACE (Achievement of Company Excellence) Awards in 1998, 1999, 2002, 2003: Recognition for contributions to development of the Ninilchik (Alaska) and Ammunition (Oklahoma) gas fields

ConocoPhillips Alaska Special Recognition Employee Award, October 2007: Acknowledgement for efforts to realign development drilling objectives in the West Sak Oil Field (Alaska)