

Contact

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Top Skills

Petrophysics
Log Analysis
Formation Evaluation
Critical Thinking

Languages

Spanish (Professional Working)
English (Native)

Certifications

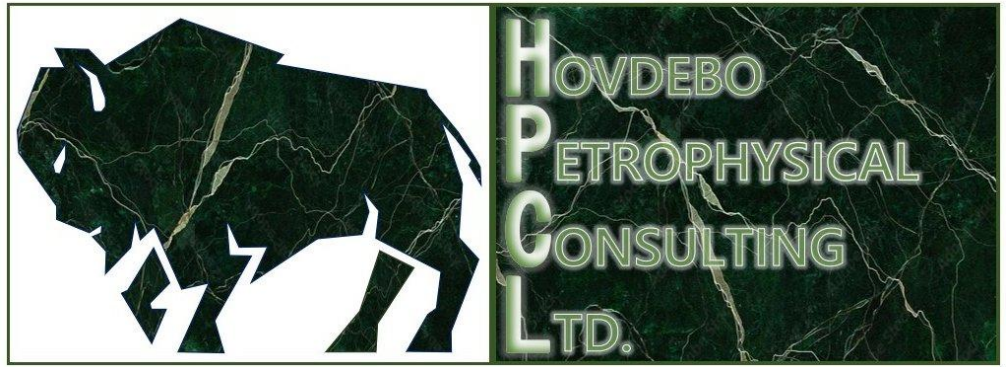
APEGA Professional Engineer (P.Eng.)
APEGA Professional Geologist (P.Geol.)

Honors-Awards

CWLS Vice President's Award (2008)
Best Petrophysical Abstract CSPG/
CSEG/CWLS Convention (2008)
CSPG Stanley Slipper Award
for Outstanding Competence in
Studies Relating to Petroleum
Geology (1983)

Affiliations

AAPG - American Association of
Petroleum Geologists
APEGA - Association of Professional
Engineers and Geoscientists
of Alberta
CEGA - Canadian Energy
Geoscience Association
(Emeritus Member)
ORE GANGUE - University of
Saskatchewan Geology
Students Club
SPE - Society of Petroleum Engineers
SPWLA - Society of Petrophysicists
and Well Log Analysts



Harold S. Hovdebo (P.Eng., P.Geol.)

Experienced Petrophysicist | Formation Evaluation Specialist | Well
Log Analyst | Professional Geoscientist | Professional Engineer |
Remote Field Operations Supervisor
Calgary, Alberta, Canada

Summary

A dedicated and accomplished geoscientist/engineer focused on petrophysics and integration of well log analyses with diverse formation evaluation data. Wide-ranging domestic and international experience. Committed to lifelong learning and possessing a deep-rooted association with the oil and gas industry. Comprehensive G&G experience as an individual contributor and provider of technical knowledge and expertise at a major integrated E&P operator underpinned by a broad-based service company background ranging from field operations/data acquisition to technical sales and interpretation. Well-grounded in a wide range of formation evaluation techniques and methodologies and demonstrating a steadfast attention to detail and shrewd commitment to the pragmatic application of technology.

Education

University of Saskatchewan

Bachelor of Science in Geological Engineering
1979 - 1983
Saskatoon, Saskatchewan, Canada

Experience

Hovdebo Petrophysical Consulting Ltd.

Director and Principal Petrophysicist
August 2020 - Present
Calgary, Alberta, Canada

Concentration on petrophysics and integration of well log analyses with diverse formation evaluation data; open-hole, cased-hole, and production log data acquisition, analysis and interpretation.

Publications

"*Hyperspectral Imaging for the Characterization of Bitumen Content, Particle Size Analysis and Sedimentological Features in HOG Oil Sands Core Samples*", Jun 2017, Husky Energy Technical Forum (In-House) [Co-author w/ John Gordon & Patrick Coyle]

"*Short-Axis Orientation of Tandem Density Toolstrings in Inclined Wellbores Subject to Elongation*", SPWLA Jun 21, 2009, (Presented at the March, 2008 CWLS Technical Luncheon and subsequently selected for the 2008 CWLS Vice President's Award and chosen as the CWLS's Best Presentation of 2008 for inclusion at the 2009 SPWLA Symposium, 21-24 June 2009, The Woodlands, Texas) [Co-author: Barry Johnson]

"*Improved Wireline Density Acquisition in Elongated, Directional Boreholes Drilled Through Stressed Formations of Western Canada*", Jun 2008, (Presented at the Presented at the 2008 Joint CSPG/CSEG/CWLS GeoConvention and awarded *Best Petrophysical Abstract*) [Co-author: Barry Johnson; Awarded "Best Petrophysical Abstract"]

"*Acquiring Density Data in Elongated, Directional Boreholes Drilled Through Stressed Formations of Western Canada*", Jun 2007 CWLS InSite Magazine [Co-author: Barry Johnson]

Husky Energy

Sr. Staff Petrophysicist

June 2005 - January 2021 (15 years 8 months)

Calgary, Alberta, Canada

Responsible for all aspects of petrophysical support to Western Canada, East Coast and Asia Pacific regions including well log acquisition program design, implementation and supervision; detailed petrophysical interpretations and analyses integrating well logs with various other datasources including conventional and special core analyses, XRD, XRF, HyperSpectral imaging, thin section petrography, well testing, drill cuttings analyses and strip logs, mudlogging and gas-detection data, etc.; generation of synthetic shear sonic travel time data for use in seismic inversion and mechanical properties evaluation/interpretation; inversion modeling and interpretation of obsolete electric logs; interpretation of cased hole logs including production logs, pulsed neutron logs and cement evaluation logs; normalization of log data across fields under development including normalization of horizontal log data; evaluation of logging contractor service tenders.

SELECTED ACCOMPLISHMENTS:

- Key contributor (Subject Matter Expert) to the HOOS (Heavy Oil/Oil Sands) initiative to standardize GeoGraphix (Prizm/GVERSE) petrophysical analysis methodology used by G+G staff resulting in more precise reservoir characterization and higher accuracy of resulting volumetric calculations and reserve estimates.
- Spearheaded log analysis and petrophysics training of recent geology and engineering grads to maximize G&G talent pool. Personally supervised the training/mentoring of a series of G&G geologists on rotational assignment to the geological services group.
- Assisted with data acquisition operations and analysis of Statoil-operated significant discovery at Bay du Nord, offshore East Coast.
- Supervised (remote) log data acquisition operations and subsequent detailed petrophysical evaluations of newly-drilled wells contributing to the successful LiuHua (off-shore China) development program in 2019. Acted as petrophysical advisor in subsequent assurance scrutiny during the North Asia Projects Peer Review.
- Performed detailed integrated petrophysical evaluations of on-shore East Java (Indonesia) wells drilled in complex mixed siliciclastic-volcanic lithologies as part of the Liman Joint Study; acted as petrophysical subject matter expert for 2019 Chief's Review/Peer Assist of Indonesian projects.
- Principal petrophysicist for the Heavy Oil Reserve Estimate (OoIP) Project, performing petrophysical evaluations on hundreds of wells across multiple areas of interest from NE Alberta into Saskatchewan to assist in estimation of the total resource potential of bitumen/heavy oil in-place across Husky's core heavy oil properties.

Precision Energy Services

Sr. Log Analyst

April 2001 - June 2005 (4 years 3 months)

Houston, Texas, United States

Processing and interpretation of wellbore image logs, pulsed neutron logs and dipole sonic logs. Production log interpretation and Propellant Stimulation horizontal fracture modeling. Advanced open and cased hole log interpretation including shaley sand, complex lithology and multi-mineral analyses for integration with pulsed neutron interpretations; processing off full-waveform

Volunteer Experience

*CEGA Technical Luncheon
Committee member*

**Canadian Energy Geoscience
Association**

April 2025 - Present

President

**Canadian Well Logging
Society**

Served on the CWLS executive from
2010-2013

Judge

Calgary Youth Science Fair

May 2014 - Jun 2018 (4 years)

Other Relevant Experience

The oil patch is in my blood. I first climbed into a well logging truck when I was seven years old. During high school and university I held summer jobs in the oil industry including:

- Wellsite geological assistant (to Dan McDonald and Peter Antonenko working for Quasar Petroleum, Grizzly Valley B.C.)
- Leasehand/Roughneck (Nabors Drilling, Nisku, AB)
- Portable seismic drill operator (Canjay Geophysical, Hudson's Hope Area, NE B.C.)
- Reservoir engineering summer student (Canterra Energy, Calgary, AB)
- Jughound/seismic line truck driver (Capilano Geophysical, North and Central AB)

Personal Interests

- Leatherwork/Carpentry/Woodworking/
Gardening
- General science: evolution, neuroscience,
skeptical inquiry
- Philosophy and religion; Buddhism and
meditation
- Music: Collecting and playing stringed
instruments and harmonica; recording,
production and mixing
- Collecting comic books and vintage magazines

acoustic logs for shear travel time; mechanical properties determination from wireline log data incorporating shear sonic, resistivity/acoustic image logs and formation tester data. Inversion modeling and interpretation of old electric logs. Supervision of day-to-day Computing Center activities including COMSTAR Satellite Data Transmission, log quality control, data processing and archiving. Sales calls and presentations to PES clients for project follow-up and training purposes

Computalog Venezuela CA

Computing Center Manager

May 1996 - April 2001 (5 years)

El Tigre, Venezuela

Management of day-to-day Computing Center activities including supervision of computing center employees, log quality control, data processing and archiving, training, sales calls and office IT support. Open hole log interpretation including mechanical properties determination using shear sonic and formation tester data; evaluation of wellbore stability and sanding potential. Interpretation of Pulsed Neutron Decay-Spectrum (Carbon/Oxygen) logs. Inversion modeling and interpretation of old electric logs. Production log interpretation. Analysis of production and injection pressure transient tests (build-up, fall-off, multi-rate, etc.). On-site supervision of data acquisition for Pulsed Neutron Decay-Spectrum logs, production logs and pressure transient tests. Sales calls and presentations to clients for job follow-up and training purposes.

Computalog Ltd. / Computalog Gearhart Ltd.

Various Roles

January 1984 - May 1996 (12 years 4 months)

Canada and International,

Over 12 years of extensive and varied experience as a log data acquisition field engineer and technical sales representative, including domestic and international assignments in Venezuela, Iran, Norway, Texas, Louisiana, Red Deer, Edmonton and Norman Wells performing open hole, cased hole and production log acquisition on land, inland waterways and offshore. [Computalog Ltd., Computalog Venezuela C.A., Computalog Iran, Namtvedt Gearhart Computalog A/S, Computalog Wireline Services (USA) Inc., Gearhart Industries, Computalog Gearhart Ltd.]

SKILLS

- Integration and Interpretation of Well Logs with Other Formation Evaluation Data Sources
- Log - Core Integration
- Image Log Processing and Interpretation
- Full Wave Sonic Log Processing and Interpretation
- Mechanical Properties Determination from Log Data
- Shear Sonic Velocity Estimation from Well Logs
- Well Log Data Acquisition Field Operations and Supervision
- Open Hole, Cased Hole and Production Logging Data Acquisition and Interpretation
- Pressure Transient Analysis