

Jack J. Kenning, M.Sc.

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GOAL-DRIVEN GEOSCIENCE PROFESSIONAL

Skilled at converting geological and geophysical data analysis into improved profitability. Specialized in basin modeling and maturity studies in addition to conducting basin analysis, prospect generation, reserves and economic resource evaluation.

Track-record of providing value-adding ideas across multiple exploration and development projects. Strong communication and presentation skills. Experience working on the Namibian Margin, Anadarko Basin, North Louisiana Salt Basin, South Texas & Maverick Basin, Berkine-Ghadames Basin, Zag-Tindouf Basin, and the Adriatic Basin. Project expertise:

**Data Management & Analysis | Well Planning & Drilling Operations | Reservoir Characterization
Subsurface Mapping | Play Analysis & Prospect Generation | Seismic Interpretation**

PROFESSIONAL EXPERIENCE

UNIVERSITY OF HOUSTON, Houston, TX, U.S.

2017 - Present

Research Assistant, Namibian Margin

Undertaking analysis of the Namibian continental margin evolution and an evaluation of its effects on hydrocarbon potential in the Luderitz Basin. The study involves an assessment of basement structure using gravity modeling, a tectono-stratigraphic analysis using seismic, well log and geochemical data and the creation of a 3D burial history model to assess source rock kitchen areas, hydrocarbon migration and conduct play assessments.

EXCELLENCE LOGGING, Tulsa, OK, U.S.

2017

Wellsite Geosteering Geologist, Anadarko Basin

Responsible for overseeing geological aspects of STACK/SCOOP horizontal drilling program for the Woodford Shale. Analyzing geological field data on-site, reporting on operation status and interpreting the subsurface - providing directions to ensure wellbore remains within defined stratigraphic target window.

- Accurate interpretation and timely decision making resulting in a 95% in-target window percentage, extending drill bit life and maintaining high rate of penetration to reduce cost.

ANADARKO PETROLEUM CORPORATION, Houston, TX, U.S. & London, U.K.

2012 - 2016

Exploration Geologist, U.S. Onshore Gulf Coast

Conducted exploration efforts in North Louisiana Salt Basin, interpreting and integrating digital well log, seismic, and petrophysical data. Identified potential targets for exploration efforts, assessing remaining economic potential in the basin.

- Mapped the carbonate section of the basin using sequence stratigraphic methodology, generating new concepts for leads and prospects.

Development Geologist, Eagle Ford

Oversaw and executed daily well operations, well planning, geosteering, and post-drill analysis. Determined methods to optimize production and resource recovery for both present and future planned development activities while working closely with reservoir engineering to improve profitability.

- Planned and oversaw geologically >100 economically successful, up to \$9MM horizontal wells.
- Implemented an integrated reservoir targeting re-evaluation resulting in improved well performance, integrating available geological, geophysical, geomechanical and petrophysical data.
- Performed PIR (Profit-to-Investment Ratio) analysis for production estimates and valuation of undrilled acreage.

Exploration Geologist, North Africa

Undertook unconventional economic resource assessments of shale formations across Morocco, Algeria and Tunisia. Conducted basin wide play analysis and prospect generation, reserve/risk estimation and post-drill analyses. Provided specialized knowledge regarding source rock maturity; basin models used in multiple projects for reserves calculation and advising financial decision making.

- Determined depositional model, reserves evaluation, and commercial recommendation for Moroccan asset, constraining the critical source rock maturity risk by conducting erosion and heat flow estimates across the Zag/Tindouf basin.
- Conducted operations for two deep prospect testing pilot wells, including mapping predicted tops, calling casing points, overseeing coring and wireline programs.
- Identified failure mechanism and play limits for recently drilled exploratory wells as part of a regional play analysis across Tunisia and Libya, mapping and analyzing clastic fluvio-deltaic sequences and identifying prospective areas.

Exploration Geologist (Continued)

- Presented evaluations to partners and national oil companies on multiple occasions, as part of technical committee meetings and negotiations, advising on forward strategy.

Geoscience Intern, International New Ventures

Tasked with project involving geological and economic evaluation of offshore Montenegro data set for bid round and conducted complete petroleum system evaluation of the Adriatic Sea.

- Identified prospects using seismic and well log data, calculated reserves and risk analysis, responsible for geological analysis and financial recommendation for management.
- Structurally mapped complex fold thrust environment and interpreted new deep structural elements. Included mapping carbonate shelf geometries, salt layers and Tertiary clastic systems.

ACADEMIC QUALIFICATIONS**Doctor of Philosophy (PhD)** Geology (Currently undertaking)

University of Houston, U.S. *Dissertation: Basin Evolution & Petroleum System Potential of the Luderitz Basin, Offshore Namibia*

Awards: Presidential Fellowship

Master of Science (MSc) Petroleum Geoscience (1st Class Pass with Distinction - GPA 4.0 equivalent)

Royal Holloway, U. of London, U.K. *Dissertation: A Petroleum Systems Evaluation of the Ulcinj Block, Offshore Montenegro.*

Bachelor of Science (BSc) (Honors), Geology (Upper Second Class - GPA 3.69 equivalent)

The University of Manchester, U.K. *Dissertation: The Geology of Ivars De Noguera, North-Eastern Spain (field mapping).*

SOFTWARE ABILITIES**Expert User:**

Landmark Decision Space

- Seismic interpretation, well log correlation and formation mapping of geological data
- Well planning and post-drill reservoir analysis
- Log aliasing and data management
- Gridding, volumetric calculations and petrophysical analysis for prospect evaluation
- Loading and digitizing raster logs and geochemistry data

Petra

- Horizontal well & field development planning
- Well correlation, formation mapping and gridding of geological and well performance data
- Petrophysical, geochemical calculations and formation evaluation
- Loading and interpretation of MWD, log, core and geochemistry data

ArcGIS

- Georeferencing images and building integrated maps to analyse basin potential
- Compiling information and managing project geological database

Genesis & Trinity

- Construction of 1D basin models using well and geochemical data
- Integration of data to produce gridded maturity and migration models, 2D cross sections

Experienced User:

SES, SMT Kingdom, Geographix, Petrosys, Rose Risk Analysis, Spotfire, Petrel

REPORTS & PRESENTATIONS

An Integrated Reservoir Targeting Re-Evaluation for the Eagle Ford Shale (Anadarko Internal Presentation 2015)

Evaluation of the Acacus Sandstone Play, Focusing on the BEKS area of the Berkine-Ghadames Basin (Anadarko Internal Report 2014)

Unconventional Resource Potential of the Assa Reconnaissance Permit, Southern Morocco (Anadarko/ONHYM Internal Report 2013)

1D Basin Modeling and Maturity Trends in the Zag-Tindouf Basin, focusing on the Assa Reconnaissance License, Southern Morocco (Anadarko Internal Report 2013)