

# JACINDA BROWN

## GEOLOGIST | BUSINESS DEVELOPMENT

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Geologist with more than 19 years of petroleum experience in developing unconventional tight gas sands and shale plays, exploration of conventional oil and gas reservoirs, experienced in water and CO<sub>2</sub> floods. A technically savvy, creative thinker, that works hard and collaborates well with other disciplines, analyzes large amounts of data quickly, and strives in a fast-paced environment. Highly motivated, experienced technical presenter, current on the latest plays, technology and deal flow. 2016 Top Women in Energy Winner.

### EDUCATION:

**University of North Carolina at Wilmington, Wilmington, NC  
August 2001**

*Bachelor of Science in Geology (Dean's List)*

### WORK EXPERIENCE:

**Roxy Energy, LLC, Denver, CO**

**December 2017 - Present**

***Consulting Geologist & Business Development– Rockies***

*Rockies Basins, which currently include: Big Horn Basin, Greater Green River Basin, Powder River Basin, DJ Basin, & Williston Basin.*

*Clients: Vaquero Bighorn, LLOX, EnergyNet, Absolute Oil & Gas, HRM Resources, Source Rock Partners*

- Support for Legacy fields including waterflood injection pattern optimization, well conformance review, wellbore damage study of scaling and asphaltenes, solvent treatments, reviews of DST, production tests, reservoir reports and wellbore diagrams, acid jobs and completion reviews, idle well review for upside, core and cutting data, radium levels, stratigraphic, structure and cross-sections, OWC, depletions, emerging plays
- Build Petra project, research basins, geologic mapping, regulatory review of Federal units, marketing materials, lease review, sales of prospect to industry contacts
- Acquisition support, lease sale reviews, evaluation of upside potential, behind pipe, refrac & recompletion opportunities, horizontal targets, geoprog, research assistance, activity updates, deal flow, generate sell prospects by leveraging Rockies network
- Works with investors interested in buying into oil and gas technologies, which includes attending technical presentations to engage with the developers, providing written feedback on the technology including how a geologist could use or not use the technology, what advantages vs disadvantages it

provides, and assess future development necessary to make product of greatest value

### **HRM Resources III, Denver, CO**

**May 2018 - February 2019**

#### ***Geologic Manager (In-house)***

*Greater Green River Basin (Great Divide Basin, Wamsutter Arch, Washakie Basin, Vermillion Creek Basin) Acquisition and permitting of emerging horizontal plays in the Lewis turbidite sands, Fox Hills shoreline sands & Almond marine bar sands. A complex stratigraphic pay in the Eastern Green River Basin. Evaluation of the Vermillion Basin for Lewis and Baxter exploration plays and further development of Almond.*

- Evaluated available land positions in GRB, resulting in four acquisitions, which lead to HRM III becoming the fourth largest operator in the emerging horizontal plays of the EGRB
- Developed geologic model for the Lewis & Fox Hills with the help of 30+ papers & presentations from the School of Mines two Lewis Consortiums, accessed DERL for old mud logs, well files and DSTs. Developed cutoffs for production based on normal SP, minimum resistivity and thickness cutoffs.
- Geologic Mapping of historic shoreline and basins for prediction sand deposits stratigraphically trapped, mapping of individual turbidite sands to create isopach maps to determine placement of permits and land for acquisition, gross vs net sand mapping to identify multiple productive targets
- Sequence stratigraphic cross-section correlations to identify productive facies
- Created type logs for all 23 horizontal wells drilled in the Luman, Strike, Chain Lakes & Monument Lakes area to identify facies, GR, SP, resistivity, porosity, gas shows, and TVDs. Plotted directional surveys, available horizontal logs to determine exact location of wellbore and used offset vertical wells to create type log for EUR comparisons
- Weekly activity mapping to keep investors and team aware of all rig activity, permits, completions and new wells on production.
- Presented to our investors (Kayne Anderson) at weekly operations meeting and quarterly updates
- Permitting: Created 148 geoprops, which included 1 or 2 mile laterals targeting Lewis, Fox Hills and Mesaverde, 18 DSUs (Drilling Spacing Units), from 26 pads. Trained tech to update all pads with directional surveys to auto-create drillings progs for operations. Hired and Managed a PG (Professional Geologist) in state of Wyoming for Commission hearing work.
- Developed Vermillion Creek Basin development plan for EA submittal with offset operator, which included pads locations and total planned drilling locations for next five years.
- Evaluated Vermillion Creek basin for exploration potential in Lewis, concluded it would not work on the lands HRM had Lewis rights in. Preliminary review of Baxter potential began with understanding of QEP previous attempts at developing Baxter and their seismic interpretations. Concluded play was not adequately tested and devise three play types to test various Baxter targets.

- Attended political rallies against Proposition 112 and engaged in educated dialogue outside the industry, which resulted in three individuals telling me they changed their votes to no.

**Mustang Resources, LLC, Denver, CO\***

**September 2014 - December 2017**

**Chief Geologist**

*Greater Green River Basin, WY (Wamsutter Arch, Washakie Basin, Rock Springs Uplift, Moxa Arch, Great Divide Basin, Pinedale, & Jonah Fields) Development of Almond / Mesaverde, Lewis, Fox Hills & Lance. Exploration of Overpressured Fort Union and Horizontal Lewis & Mesaverde.*

- October 2017 Management Team divested 98% of Mustang assets returning 2X to the investor
- Key team member in divestiture, in researching other divestitures in area for negotiations, identifying PUDs, evaluating lease expirations, leases at risk, wells at risk, ORRI lands
- Successfully acquired four (4) assets over two (2) years resulting in increased production, additional PUDs, significant leasehold in emerging plays, a large exploration position, drill-to-earn deal with offset operator
- Geologic mapping of emerging plays
- Prospect generation resulting in lease acquisition and flipping position in less than one month
- Mapping, permitting, and supervising of drilling two directional Almond wells in 2015
- Non-Op AFE geologic review and recommendation of consent/non-consent in Jonah Field, Pinedale, Wamsutter & DJ Basins
- Geologic review of JV and Farm-in proposals
- Lease sale reviews & bidding, resulting in acquisitions

*Business Development in GRB, Williston Basin, DJ Basin, Uinta Basin, Piceance Basin*

- Asset review and scoping projects
- Contacting other operators to see if there were any opportunities for JV, drill-to-earns or divestitures
- Attending networking events including lunches, exhibitions, classes for deal flow

\*Retained 1% ownership in Mustang Holdings I, LLC with ORRIs in the GGRB

**Caerus Oil & Gas, LLC, Denver, CO**

**March 2011 - September 2014**

**Senior Geologist**

*Piceance, San Juan Basin, Green River Basin, Central Kansas, Anadarko Basin, and other areas*

*Piceance Basin, CO*

- Supervise geological drilling operations for 31 wells in 2014.

- Assess potential on existing leaseholds and create a comprehensive development plan and additional productive zones (exploration).
- Assist reservoir, production, and completion staff with development and completion strategies with log analysis.
- Provided drilling locations with supporting documentation to drilling, regulatory, and land personnel.

*Texas County, OK, Anadarko Basin*

- Work waterflood potential of existing fields, identify upside potential and develop program in acquired acreage and wellbores.
- Evaluate recommending participating in non-op recompletions

*Lansing & Arbuckle, Central Kansas*

- 100% success in drilling 3 Lansing producers and 1 Arbuckle producer.
- Created Arbuckle model for Barton County, Kansas by evaluating DSTs, scout tickets, logs, and 3D seismic, which resulted in 31 prospects, 83 possible locations. Acquired leases for 42 locations, drilled 4 wells before passing project to new geologist.
- Operations geologist on-call for drilling of 15 Lansing and Arbuckle wells, ran DSTs, drilling correlation, log analysis, and recommended perms.

*Bisti Field, San Juan Basin, NM*

- Identified Mancos/Niobrara/Gallup play on acreage position, worked on farmout deal to get acreage developed.
- Review non-op Fruitland Coal workover opportunities to recommended participation or not.

*Pinedale & Moxa Arch, Green River Basin, WY*

- Evaluated acreage position on flanks of Pinedale Anticline, recommended acquiring 3D seismic, picked locations to be drilled when gas prices warrant activity.
- Developed refracing and recompletion program for Second Frontier through detailed mapping, review of well files and completion practices of acreage on Moxa Arch in the Little Monument Unit.

*Other*

- Evaluate acquisitions and attend data rooms as needed for areas including: Piceance Basin, DJ Basin, East Texas, Uintah Basin, and Powder River Basin.
- Guest Speaker Spring 2012 Semester for Geology Seminar at Colby College, Waterville, Maine. A Petroleum Geologist's Career, It's as much what you know as who you know.

**Resolute Energy, Denver, CO  
February 2010 - February 2011**

*Geologist working the Greater Aneth Field in Paradox Basin and Hilight Field in Powder River Basin*

*Geologist Hilight Field, Powder River Basin, WY*

- Assessed potential of Mowry Shale and Niobrara for oil exploration play in the Hilight Field, which resulted in a recompletion program of existing Muddy wellbores.
- Analyzed geological, production and completion data to choose muddy refrac candidates, testing sand and silt refrac potential with modern fracs.

*Geologist Greater Aneth Field, Paradox Basin, UT*

- Assisted reservoir engineers with well conformance in WAG (water alternating gas) CO2 flood. Analyzed well log data, injection surveys, production curves and completion details.
- Reviewed cores for carbonate facies description, provided perf intervals in injector wells, drilling depths, formation tops for new wells and deepening wells.
- Evaluated old wellbores for P&A, TA, or repair based on future geologic potential and economics.
- Proposed prospects in 50+ year old field to recover primary, secondary & tertiary reserves in undrilled locations, horizontals laterals and redrill locations.

**Delta Petroleum Corporation, Denver, CO**

**February 2004 - February 2010**

***Geologist,***

*Piceance Basin, DJ Basin, Wind River Basin, Paradox Basin and Austin Chalk trend.*

*Lead Geologist Piceance Basin Asset Team*

- Supervised geological operations during drilling 192 wells.
- Assessed potential on existing leaseholds and creating a comprehensive development plan, which includes placement of bottom holes, completions intervals, and additional productive zones.
- Proposed prospects and developed an inventory of prospects and locations.
- Assisted reservoir, production, and completion staff with development, and completion strategies with log analysis.
- Provided drilling locations with supporting documentation to drilling, regulatory, and land personnel.

*Geologist, Multiple Basins*

- Exploration and development of D-sand, J-sand & Niobrara prospects in Washington County of DJ Basin.
- Exploration of deeper Iles horizon in Williams Fork producing field, which has resulted in additional reserves.
- Provided geological support in property evaluations, which have included shale resource plays, Williston Basin, DJ Basin, Wind River Basin, Paradox Basin and others.
- Geosteered horizontal Austin Chalk wells with GR and seismic interpretations in Austin Chalk trend.

- Testified for COGCC in hearings for decreased setback, increased well density & spacing.
- Geologic presenter for web telecast Analyst Conference, Piceance Basin data room, DJ Basin data room, Investor presentations, and Geological talk at Vega State Park.

**RockWare, Inc., Golden, CO**

**October 2001 - February 2004**

*Petroleum Business Development Manager*

- Petroleum industry sales, technical support and technical writing for geological software.
- Taught courses for industry professionals in RockWorks and LogPlot which included: cross-sections, geologic modeling, statistical analysis, digitizing and data import.
- Attended professional conferences for demonstrations and discussion of geological software.

**RESEARCH EXPERIENCE:**

**National Science Foundation funded Research Experience for Undergraduates Summer 2000**

***Geology Intern***

*Western Carolina University & University of South Florida at Tampa*

- Selected as one of 12 participants to conduct geologic field mapping of the Carroll Knob complex in western North Carolina, involved basic field mapping, digital mapping using ArcView, collection of geophysical data using seismography, resistivity, Electromagnetics-34, Ground Penetrating Radar, magnetometry. Geochemical analysis (major and trace elements) using Direct Current Emission Spectrometer.

**AWARDS, ACHIEVEMENTS, MEMBERSHIPS AND COMMUNITY SERVICE:**

- 2017 member of Management Team that divested Mustang assets in GRB returning 2X to the investor
- 2016 Top Women in Energy Winner (Denver Business Journal)
- AAPG (American Association of Petroleum Geologists)
  - 2015-2017 AAPG Delegate Alternate
  - 2013 Mentor For RMS AAPG Student Chapter Leader Summit
- RMAG (Rocky Mountain Association of Geologists),
  - Elected RMAG Board of Director Secretary in 2013
  - Served on RMAG Hot Play Symposium Committee in 2014/2015
- Explorers Club, DPC (Denver Petroleum Club), DWLS (Denver Well Logging Society), IPAA (Independent Petroleum Association of America), WGA (Wyoming Geological Association), RMIE (Rocky Mountain Information Exchange)
- Judge for University of Colorado Mechanical Engineering Component Design 2017 Fall & 2018 Spring
- Judge for Colorado School of Mines Science Fair 2015

- Guest Speaker Spring 2012 for Geology Seminar Series at Colby College, Waterville Maine "A Petroleum Geologist's Career, It's as much what you know as who you know."
- SE-GSA Best Poster Presentation, Southeastern Geological Society of America, 2001, Raleigh, NC. Petrographic & Field Relations of a Portion of the Carroll Knob Mafic/Ultramafic Complex, Eastern, Blue Ridge, Macon Co., NC.
- UNCW Honors Student Research and Travel Grant, UNCW for 4 Poster Presentations at the Southeastern Geological Society Association, September 2000
- AAUW, American Association of University Women Academic Scholarship, awarded to exceptional women in science and math related majors, April 2001.
- National Science Foundation Grant, selected as a participant for an internship at Furman University, summer 2000.
- National Science Foundation funded Research Experience for Undergraduates Participant. Western Carolina University & University of South Florida at Tampa, Summer 2000.
- President of UNCW Geology Club

#### **PUBLICATIONS AND PROFESSIONAL PRESENTATIONS**

Grosser, B., Nettik, J., Sha, G., Tweedy, K., O'Shaughnessy, B., Huntsman, J. (2001), ***An Inventory of Joints in the Roanoke***

***Rapids Tailrace, Northeastern, North Carolina.*** Geological Society of America Abstracts with Program, v. 33, n. 2, p. A-66.

Meyer, J., Nettik, J., Pollock, M., Sullivan, W., Bierly, L., Tibbits, M., Gerseny, M., DeArmond, B., Dean, R., Natoli, J.,

Csontos, R., Lesmerises, M., Ryan, J., Yorkovich, S., Savov, I., Peterson, V., Burr, J., Kruse S. (March 2001), ***Geochemistry and Petrogenesis of the Carroll Knob Mafic/Ultramafic Complex, Macon County, North Carolina.*** Geological Society of America Abstracts with Program, v. 33, n. 2, p. A-69.

Bierly L., Sullivan, W., Tibbits, M., Natoli, J., Csontos R., Meyer, J., Nettik, J., Dean, R., DeArmond, B., Gerseny, M.,

Lesmerises, M., Pollock, M., Yurkovich, S., Savov, I., Peterson, V., Burr, J., Kruse, S., Schneider, J., Ryan J. (2001), ***Petrographic and Field Relations of a Portion of the Carroll Knob Mafic/Ultramafic Complex, Eastern, Blue Ridge, Macon Co., NC.*** Geological Society of America Abstracts with Program, v. 33, n. 2, p. A-69.

Dean, R., DeArmond, B., Gerseny, M., Pollock, M., Csontos, R., Lesmerises, M., Natoli, J., Meyer, J., Bierly, L., Nettik, J.,

Sullivan, W., Tibbits, M., Schneider, J., Kruse, S., Peterson, V., Yurkovich, S., Burr, J., Ryan, J. (2001), ***Geophysical Transects Across the Margins of the Carroll Knob Mafic/Ultramafic Complex, Macon County, North***

**Carolina.** Geological Society of America Abstracts with Program, v. 33, n. 2,  
p. A-67.