

Mission

To create value, efficiencies, and collaborative partnerships in a thriving business.

Experience Summary

Experienced project manager and geoscientist with a demonstrated history of creating efficient results and value. With a diverse and qualified technical background in petroleum geology, geophysics, and engineering disciplines, Barrett has a distinct ability to quickly integrate the vital information and present to the highest levels of management for critical decisions.

Career Highlights

- Reduced financial exposure and legal risk through efficient project management of on time, on budget multi-phase \$6MM heliportable seismic project (Arsi Energy)
- Proven value-add financial fundraising ability, as a key member raising \$150MM private equity commitment based on geologic principles (S&A)
- Evaluated 100+ A&D opportunities with a multidisciplinary approach that influenced project viability for acquisition; gained in-depth knowledge of on and off market opportunities in the lower 48 (S&A)
- Significantly increased EUR's as member of a team that successfully drilled in a very structurally complex shale development project by-way-of increased in-zone placement of wellbores >90% (Inflection Energy)
- Obtained early career high level responsibility as lead geoscientist for early phase geologic development assessment of offshore Israel/Nobles Leviathan project in the Mediterranean (GEMS)

Basin Experience

Eagleford, Austin Chalk, Eaglebine, Gulf Coast, Permian, Uinta, DJ, Powder River, Piceance, Rockies, Scoop/Stack, Appalachia, Arkoma, and Mississippi Salt Dome Basin. Operated: Permian, Appalachia, Piceance.

Professional Experience**Arsi Energy | *Geoscience Director*****June 29, 2018-Present**

- Geoscience Director of E&P portfolio management company operating Gunnison Energy (GELLC)
 - Managed and planed all geological, geophysical, and subsurface development projects
 - Coordinated all aspects of \$6 Million heliportable seismic acquisition project in 2018/19
 - Reduced financial risk by completing projects on time, within budget, in mountainous and rough terrain, in thick vegetation, and in a narrow regulatory window
 - Led, fought, and won legal battle in district court, creating template for GELLC of handling future legal roadblocks; testified against activist proponent seeking TRO
 - Saved GELLC on overall total cost and risk, by overseeing every aspect of planning, project management, permitting, and acquisition
 - Defined asset quality and variability by optimizing the geologic framework and identifying key performance variables through advanced petrophysical and seismic driven earth models
 - Led development planning and created project deliverables such as detailed geologic drilling prognosis and operations plan; utilized in-depth procurement plan and cost analysis
 - Revamped horizontal and vertical zone placement classifications to identify key producing intervals and evaluate bypassed pay potential
- A&D evaluation: Evaluated G&G aspects of over 25+ domestic onshore opportunities to grow business

S&A Resources | *Geoscience Manager***June 6, 2016-June 29, 2018**

- Geoscience manager and co-founder of Private Equity backed E&P firm
 - Started company as a key partner on initial team raising \$150MM Private Equity commitment based on geo fundamentals
 - Effectively ranked and evaluated over 100+ domestic onshore A&D prospects in various basins
 - Ranking relied on a coordinated multi-disciplinary G&G evaluation to understand project viability with the goal to acquire a cash flow positive asset and/or viable acreage position
 - Transitioned to Geoscience Manager of Reeves County Delaware Basin Asset and offered VP role
 - Led all subsurface planning for G&G division of Permian affiliate PE company in 2018
 - Routinely presented to private equity board members on key G&G items

Inflection Energy | Geophysicist/Geoscientist**January 6, 2014-June 3, 2016**

- Key team member that provided cutting edge geophysical and geological solutions for development of horizontal drilling program in Appalachian Basin:
 - Optimized, planned and drilled wells using detailed seismic interpretation and depth conversions in complex thrust fault setting. Interpretations utilized spec shoot and proprietary 3D and 2D seismic data to drill successful lateral wellbores. Experience includes:
 - Provide necessary and accurate well plan, tops, and prognosis information
 - Utilize available seismic and geophysical data to provide live drilling updates
 - Work with geosteering personnel and operations team to drill successful laterals
 - Assist with spec shoot purchase and proprietary seismic acquisition
 - Oversee proprietary seismic data acquisition (Permitting to Field Acquisition)
 - Oversee seismic data processing/re-processing
 - Velocity analysis modelling, create accurate time to depth conversions and solutions
 - Create accurate synthetic ties and accurate surface time to depth conversions.
 - Created predictive models that integrate and analyze geophysical, geological, and engineering data via several interpretation platforms to improve operational procedures
 - Worked in interdisciplinary manner and routinely outsourced skills to other departments
 - Provide input for project development, create GIS maps and data for reservoir/operations/finance teams, assist regulatory in permitting, etc.

Geoscience Earth and Marine Services | Geoscientist**August 26, 2011-December 20, 2013**

- Became a leader in understanding complex geologic and engineering challenges for offshore oil and gas exploration and development in Gulf of Mexico and several worldwide basins. Client work for majors:
 - Anadarko (Lucius), BP (Mad Dog), Noble (Leviathan), Apache (Bimini), Murphy, Hess (T bell)
- Provided innovative solutions for field development and onsite-specific projects, including:
 - Geologic interpretation of 3D and 2D seismic surveys, focused on shallow hazard constraints
 - Provide collaborative and integrated report summaries to de-risk drilling and infrastructure construction
 - In-field client representative for offshore geophysical and geotechnical campaigns
 - Geophysical data: SBP, MBE, SSS, and backscatter data acquired via AUV
 - Geotechnical data: Piston Core, Jumbo Piston Core, Box Core, and Cone Penetrometer Test. Oversight of field lab testing (Minivane and torvane shear strength tests)
 - Thorough understanding of deep-water exploration regulations
 - BOEM's Notice to Lessees

Schlumberger, WesternGeco | Geophysicist**June 7, 2010-August 12, 2011**

- Data scientist responsible for providing industry leading geophysical and geological solutions for 3D seismic processing business unit (Onshore and Offshore)
 - Gained extensive exposure and training with advanced geophysical and processing skills
 - Presented results to top management and various executive level clients
 - Expanded advanced understanding of 3D seismic survey acquisition techniques

Bowie Resources | Mine Geologist Intern**Summer/Winter 2008 & 2009**

Bowie II Coal Mine-Piceance Basin

- Assisted Senior Mine Geologist with wide range of subsurface analysis duties:
 - Underground mine mapping, ground control monitoring, roof stability rating, underground channel samples, mine water quality monitoring, desorption analyses, core logging and exploration drilling, log interpretation, and underground mine surveying
 - Represented engineering department at foremen's meetings
 - Assisted NIOSH ran geophysical research project aimed at finding trapped miners

Geology/Geophysics Skills

- Provider of detailed and well documented geologic interpretations utilizing multidisciplinary datasets
 - In depth knowledge of 2D/3D Seismic, advanced E-logs (NMR/CMR, dielectric, FMI), core interpretation procedures and testing, regional mag/grav impacts, geochemistry and fluid characterization, geosteering verification, and field outcrop integration
 - Ability to manage and integrate G&G data, engineering and performance data
 - Strong structural interpretation background: GOM Louann Salt, Appalachia Thrust Belts
 - Ability to adapt and work in a fast-paced environment with various personalities
- Experienced in seismic acquisition, seismic processing, and seismic interpretation
 - Thorough understanding of geophysical acquisition and data processing techniques
 - Has overseen and managed multiple 150+ sq mile merge processing projects
- Extensive understanding of rock mechanics, soil mechanics, and geomechanically influenced seismic properties (HTI/VTI)

Management Experience

- Manager of all aspects of Acquisition and Divestitures (A&D) specific to Geology and Geophysics (G&G) evaluations
 - Petrophysics, geosteering in-zone evaluation, seismic analysis, and multivariate Statistical analysis integration
 - Present to management, PE Board meetings, and potential investors
 - Manage and collaborate with high level and experienced technical office personnel
 - Provide detailed operations plans with valid procurement options with detailed costs analysis
- Managing Field Operations (Onsite geologic personnel for drilling, seismic acquisition, offshore data collection, etc.)
 - Manage projects with intimate small groups of high performers up to 100+ people

Computer Programs and Software Experience

- Software Packages: SMT Kingdom, Petra, Transform, SES geosteering software, Global Mapper, Golden software packages: (Surfer, Grapher, Strater), AutoCAD/SurvCad, Seissee, SonarWiz5, CMRR, Omega2, SEGViewer, and BeyondCompare.
- Familiar with: Petrel, Spotfire, Geographix, ArcGIS, MapInfo, Vulcan, Solidworks, CleanSweep, Kongsberg Mesotech 1000, and Microsoft Access
- Familiar with Linux, Fortran, and programming languages. Expert in Microsoft Office Package.

Education

Colorado School of Mines | Golden, CO

Bachelor of Science in Geological Engineering, CSM**May 14, 2010****Certifications**

- Engineer in Training (EIT) | EIT No. 48694 (*Taking Professional Engineer Geotechnical Exam in Oct 2020*)

Professional Organizations

- DGS, AAPG, RMAG

Continued Education

- PTTC Workshops, Stoner Engineer Geosteering Training, Transform Essentials Training, Salt Tectonics (Hudec, Jackson School of Geosciences)

Volunteer Work and Activities

- Reading Partners Volunteer: Individualized reading instruction for DPS students (2013-Present)
- Houston United Rugby Team (2011-2013) & Colorado School of Mines Rugby (2008-2010)