

Mel F. Hainey, P.E.

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SKILLS SUMMARY

Reservoir engineer/manager with extensive background in drilling, well completions and production for both conventional and unconventional operations. Capable in all phases of upstream oil and gas projects--from concept evaluation through exploration and development and into production. Exceptional computer skills used to apply technical knowledge in a highly productive manner. Proven ability to work independently and as a leader in a team environment. MSEE and MSE from University of Texas at Austin. Licensed professional engineer in Texas.

Specific experience highlights:

- Reservoir engineering full time or consulting since 1993; asset manager since 2011.
- Well design, production surveillance and A&D for conventional oil and gas assets in South Texas, East Texas, Gulf of Mexico and Permian Basin and for unconventional oil and gas assets in Haynesville, Barnett Shale, Eagle Ford, Eaglebine and Wolfcamp.
- Reserve report preparation and review with third-party consultants (e.g. Netherland Sewell).
- Volumetrics, material balance, decline curve and rate transient analysis reserve evaluation methods; petrophysical analysis for shaly sands; artificial lift and compression evaluations.
- Software: ARIES, PHDWin, Enerdeq, FieldDIRECT, RTA, Petra, GeoGraphix and MS Office.

EMPLOYMENT HISTORY

HAINEY & HAINEY PETROLEUM CONSULTANTS

Petroleum Consultant.....May 2016–Present

- Updated and improved PHDWin database for multi-county West Texas acquisition. Updated monthly production, added daily data, reforecast PDP, added new cases for undeveloped locations.
- Problem well diagnoses, workover recommendations and prospect evaluations in South Texas.
- Software development for prospect and acquisition development evaluation using IHS Enerdeq and public production and well data; multi-segment type curve modeling in Excel.

DAVIS PETROLEUM CORP.

Texas Asset Manager and Chief Reservoir Engineer..... November 2009-October 2016
(Full-time through April 2016 then contract through the successful closing of Davis/Yuma merger in October 2016.)

- Provided production and revenue forecasts, reserves updates and valuations for Davis management and board of directors throughout merger process. Worked closely with third-party company on mid-year reserves audit and provided technical input for SEC Form S-4.
- Asset team leader for Texas properties including operated and non-operated conventional wells in Galveston Bay and Sabine Lake and non-operated unconventional wells in Madison and Brazos counties.
- Lead reservoir engineer for numerous Texas and Louisiana acquisition evaluations including a highly successful 2010 acquisition of El Paso Production's Catapult conventional properties in Louisiana that paid out multiple times and became the company's most valuable assets.
- Company expert in ARIES and engineering/petrophysical applications in PETRA.

PENN VIRGINIA OIL & GAS, L.P.

Senior Reservoir Engineer August 2006-November 2009

- Performed reservoir surveillance for East Texas and Texas Gulf Coast conventional properties. Tasks included drilling, recompletion and workover justifications, field development planning, and monitoring competitor activities. During this work applied skills in petrophysical evaluations, volumetric and material balance reserves calculations and rate and pressure transient analysis.
- Tracked performance of Lower Bossier horizontal drilling program with custom-designed time-zero charting and statistical analysis tools. Developed a suite of type curves for estimating ultimate gas recoveries and as-drilled lateral landing, azimuth and well completion diagrams as a planning aid for future drilling.
- Completed acquisition evaluations ranging in value from \$5 million to over \$900 million for East Texas, South Texas and North Louisiana properties.
- Prepared production forecasts, reserve estimates and economics cases for company reserves. Worked with third-party reserves auditor to ensure timely completion of year-end SEC reserve reports.

KCS RESOURCES, INC./PETROHAWK

Senior Reservoir Engineer March 2006-August 2006

- Following a 5-well Gulf Coast Frio development drilling program, led reservoir engineering tasks of well evaluation, well completion, reserves booking and post-drilling economics. Justified additional drilling based on success of this program.
- Monitored production performance in several Gulf Coast and South Texas fields, initiating workover and recompletion projects as necessary. Developed a database application for tracking oil well tests over time for the purpose of identifying production problems and directing pumper activities.

EL PASO PRODUCTION COMPANY

Senior Staff Reservoir Engineer, Texas Gulf Coast Division2003-March 2006

- Working with an asset team starting in April 2005, identified and justified over 20 South Texas Vicksburg and Frio drilling opportunities to build a 2-3 rig program for 2006. Ongoing activities included reservoir engineering support for workovers, recompletions, and artificial lift installations in several large fields.
- In a strategic business planning assignment reporting directly to the vice-president, prepared annual capital budget and volumes forecasts for the entire division; improved processes for capital tracking and drilling performance evaluation; implemented electronic document management for drilling projects.
- Developed an innovative, decline-curve-based, regional-scale (1,000+ wells) EUR calculation and mapping technique for evaluation of competitor properties in South Texas; applied results to acquisition economic evaluations.

Principal Reservoir Engineer, International Division 2002-2003

- In first month of assignment, turned a one-page development outline into a detailed, 7-field/136-well economic evaluation and management presentation.
- Worked with reservoir simulation consultant to model and optimize the development scenario for an offshore gas project; calculated production forecast, reserve estimate and project economics.

Principal Reservoir Engineer, Central Division 2001-2002

- Performed reservoir engineering for numerous East Texas fields in the Sabine Uplift and Western Shelf areas and in the James Lime trend. Included field development planning, drill well justification and reserves evaluations. Evaluated Bossier and James Lime acquisition and lease sale proposals. Prepared reserves and technical data for East Texas divestiture package.

COASTAL OIL & GAS CORPORATION

Staff Reservoir Engineer, Upper Gulf Coast Division..... 1998-2001

- Reservoir engineer for Upper Gulf Coast and South Texas fields predominately in the Wilcox and Vicksburg trends. Included field development planning, drill well justification and reserves evaluations.
- Worked with ARIES for Windows transition team to provide smooth conversion for company reserves databases. Developed an efficient methodology for running economic evaluations and automatically generating economic summary tables. Developed custom Excel functions for gas well reserves and production modeling to provide accurate, ARIES-quality budgeting and planning using spreadsheets.

HAINEY & HAINEY PETROLEUM CONSULTANTS

Petroleum Consultant.....1987-1998

- Reservoir, drilling, well completion and operations management projects; Gulf of Mexico and international.
- Clients included The Huffco Group, Sonat, Baker-Hughes and Gulfstar Energy.

EXXON COMPANY, U.S.A.

Staff Engineer, Headquarters Production and Alaska Interests Group 1982-1987

- Worked with team of engineers to develop cost estimating guidelines for exploration and development in the Beaufort and Chukchi seas; developed improved guidelines for tubing and casing design.

Supervising Engineer, Kingsville District..... 1981-1982

- Supervised staff of seven subsurface production engineers and technicians. Responsible for technical content and safety for over 1,100 procedures representing 130 well completions and 500 workovers.

Project Engineer, Kingsville District and Houston Drilling Organization..... 1977-1981

- Subsurface production engineer, reservoir engineer and drilling engineer for several major South Texas field areas.

EDUCATION

- MSE Electrical Engineering, University of Texas at Austin, 1977.
- BSEE Electrical Engineering with Honors, University of Texas at Austin, 1975.
- Post-graduate petroleum engineering studies at Texas A&M, 1989-1992.

LICENSE and MEMBERSHIPS

- Licensed Professional Engineer in Texas, Number 65528.
- Society of Petroleum Engineers.
- Tau Beta Pi, Pi Epsilon Tau, Eta Kappa Nu engineering honor societies.