

JENNIFER HARPEL, PE

214-727-1230 • JMHARPEL@GMAIL.COM • www.linkedin.com/in/jennifer-harpe-PE

RESERVOIR ENGINEER • COMPLETIONS ENGINEER

Registered professional engineer with 19 years of experience in the oil and gas industry across a broad range of functions in production, reservoir and completions engineering. Areas of expertise include:

- Frac Design
- Completion Optimization
- Cost Estimating
- Vendor Management
- Unconventional Horizontals
- Field Personnel Supervision
- Economic Evaluations
- AFE Preparation
- Field Trials and Studies
- Project Economics
- Type Curve Generation
- Data Analytics
- Post-Well Appraisals
- Public Speaking
- Cost Tracking & Accruals

WORK EXPERIENCE

4/2017 – 8/2020 Parsley Energy, Austin

SENIOR STAFF RESERVOIR ENGINEER

- Calculated new drill economics using area type curves and assessed risk based on well spacing, completion design and offset performance; presented AFE packet for manager approval
- Updated forecasts monthly for PDP properties
- Constructed area type curves based on historical performance, completion design and well spacing; compile and present all documentation to the reserves group
- Performed well lookbacks to assist in future development decisions
- Provided economics and reservoir engineering support to legal department for litigation
- Performed PDP evaluations to support land department in trades and sales

SENIOR STAFF COMPLETIONS ENGINEER

- Designed well completions for a 10-20 rig drilling program in the Midland Basin Spraberry and Wolfcamp formations
- Successfully designed and implemented a field trial using dissolvable diverters to use as a cost-effective replacement for frac plugs and to improve efficiency; wrote and presented findings at the SPE ATCE

11/2016 – 3/2017 Jones Energy, Oklahoma City

SENIOR COMPLETIONS ENGINEER

- Manage completions operations for SCOOP/STACK asset including stimulation design, well planning, scheduling and bidding services.

10/2013 – 2/2016 Jones Energy, Austin

COMPLETIONS ENGINEERING MANAGER

- Managed completions operations for a 10-rig Arkoma and Anadarko drilling program consisting of 3 frac crews, drill-out crews and a completions team consisting of a foreman, superintendent and staff engineer.
- Procured bids for services and constructed AFEs for the planning and finance teams; managed well costs through monthly accrual process; lowered AFE costs by 30% in 3 months in 2015.
- Responsible for completion optimization which included designing and implementing a 20-well plug and perf field trial; production increased 43% over wells with a standard OH completion.
- Successfully transitioned completions to new coil tubing-activated sleeve system in the Cleveland Sand.

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9/2009 – 10/2013 Southwestern Energy

FIELD STAFF COMPLETIONS ENGINEER

- Supervised frac crew for Fayetteville Shale completions. Scheduled personnel and managed shifts for frac jobs. Made real-time engineering decisions when mechanical, environmental or pumping problems occurred.
- Designed procedures for workover and remedial operations.
- Planned and executed field trials for testing new completion technologies to reduce costs and improve production. Evaluated production and economics to determine viability.

COMPLETIONS DISCIPLINE LEAD

- Supervised the northwest completions team for the Fayetteville Shale. Managed two completion engineers and a completions analyst by offering guidance and evaluating performance. Contributed to monthly financial reviews and asset team meetings.
- Designed well completions for a fast-paced, 1.7 BCFD drilling and completions program in the Fayetteville Shale, AR. Personally completed over 150 wells in 2 years.
- Integrated drilling, geologic and offset well data to optimize completion designs for over 30 wells per month.
- Duties included writing procedures, tracking and accruing for costs, planning and evaluating completion design tests, modeling designs using MShale software and supervising frac jobs.

7/2008 – 4/2009 Uptex Operating

OPERATIONS ENGINEER

- Responsible for all engineering duties including monitoring production by communicating daily with field staff, generating workover procedures, overseeing workover operations and running economics using PHDWin software. Areas of operation included east Texas, West Texas and Michigan.

10/2007 – 7/2008 Crosstex Energy Services

PROJECT ENGINEER

- Managed pipeline and compressor installation projects ranging in cost from \$3-50 million dollars. Duties include coordinating construction crews, procurement of materials and cost tracking.

5/2004 – 9/2007 Merit Energy Company

OPERATIONS ENGINEER

- Completed a field study for a deep gas field in northern Michigan. Results included permitting, drilling and completing new wells, designing and successfully implementing a fracture stimulation program to accelerate production and installing compressor upgrades to decrease costs and improve efficiency.
- Planned and successfully executed oil and gas well recompletion workovers in Tinsley, MS to increase production.
- Monitored and analyzed production to find candidates for stimulation or facility upgrades in deep gas, shallow shale gas and mature waterflooded fields.
- Analyzed economics with Aries Software for budget planning and to determine viability of capital projects.

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7/2001 – 3/2003 LaRoche Petroleum Consultants, LTD.

PETROLEUM ENGINEER

- Gathered, processed and analyzed production, geologic and economic data to provide reserve estimates and forecasts to clients using OGRE, PHD and PEEP software. Generated reserve and economic report documents to meet client-driven deadlines.

EDUCATION

May, 2001 The University of Texas at Austin Austin, Texas
B.S. Geosystems Engineering and Hydrogeology

- University Honors, Spring 2000
- Varsity athlete, letterman and scholarship recipient for Women's Rowing Team

PROFESSIONAL MEMBERSHIPS

Licensed Professional Engineer in Texas
Society of Petroleum Engineers, Austin Chapter Social Activities Chair
Austin Women in Oil and Gas, Secretary

PUBLICATIONS

J. Harpel, L. Ramsey and K. Wutheric, "Improving the Effectiveness of Diverters in Hydraulic Fracturing of the Wolfcamp Shale," SPE paper 191600 presented at Annual Technical Conference and Exhibition, Dallas, TX, 24-26 September 2018.

J. Harpel and A. Brack, "Relating Cement Bond Quality to Stage Communication in Horizontal Tight Sand Completions," SPE paper 179169-MS presented at the Hydraulic Fracturing Technology Conference, The Woodlands, TX, 9-11 February 2016.

J. Harpel, L. Barker, J. Fontenot, C. Carroll, S. Thomson and K. Olson, "Case History of the Fayetteville Shale Completions," SPE paper 156261 presented at the Hydraulic Fracturing Technology Conference, The Woodlands, TX, 6-8 February 2012.