

Vibhas Pandey

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EDUCATION

- **Doctor of Philosophy**, Petroleum Engineering, U. of North Dakota. May **2022**
- **Master of Science**, Petroleum Engineering, U. of Oklahoma, OK, USA. May **1998**
- **Master of Engineering**, Turbomachines, National Institute of Technology, SGU, India, **1991**
- **Bachelor of Engineering**, Mech. Engineering, National Institute of Technology, SGU, India, **1987**

WORK EXPERIENCE – Total 34+ Years

Primary Expertise – ~23 years: Well Completions – Hydraulic Fracturing and Acid Fracturing (USA)
Additional – 8 years: Drilling and Workover Operations (India)

ConocoPhillips, Houston, TX (Dec 2007 to Present: 14½ Years)

Engineering Fellow, Global Wells

Apr 2019 to Current

- Global Subject Matter Expert in Hydraulic Fracturing, Acid Fracturing, Well Completions and Production Optimization.
 - Primary Focus: Fracture Diagnostics, Modeling, Design, Execution & Optimization.
 - Australia (CBM), Norway (Acid Fracs), Alaska (Conv.), and Lower 48 (Unconv.) Projects.
- Coach/Mentor young professionals, conduct training courses worldwide, participate in company/industry events, and represent ConocoPhillips in JIP (UT Austin, Texas A&M, others).
- Author SPE/Journal papers, volunteer in paper edit/reviewing for various SPE Journals.
- *Adjunct Asst. Prof.* : University of North Dakota, Grand Forks – March 2021 to current:
 - Short Courses in Hydraulic Fracturing and StimPlan™ training. Sum. 2020, Spring 2021.
 - PTRE 475/575 Undergrad/Graduate Core Course Instructor. Spring 2022.
 - PhD co-advisor for several PhD students.

Principal Engineer, Global Wells

Apr 2013 to Mar 2018

- Support ConocoPhillips' well completion & stimulation activities worldwide.
 - Assist in company's operations related to well completion: hydraulic fracturing, sand control, acid fracturing, matrix acidizing, foam fracturing, and well stimulation in various reservoirs.
 - Promote improvement in stimulation methods via innovation and in-depth analysis.
 - Train less experience professionals in well stimulation and fracture modeling.
 - Optimize completion programs to maximize returns – Australia, Indonesia, and Norway.
 - Inventor of RTDT to assist real-time decision making in acid fracturing operations.
- Projects worked on:
 - **Norway**: Acid Fracturing in North Sea. Better performing wells and \$5MM+ savings.
 - **Australia**: CBM development in Surat Basin. Revolutionized completions in Walloons coals.
 - **Indonesia**: Conventional tight gas reservoirs; FracPacks for high permeability offshore fields.
 - **China**: Frac-Pack Design Optimization and Completion improvement.
 - **Alaska**: Recommendations on hydraulic fracturing designs for slim hole completions.
- Past/Concluded Projects (2010 – 2015)
 - **US Lower 48**: CTU based pinpoint fracturing in EagleFord Horizontal well completions.
 - **Alaska**: Multi-stage OH Horizontal well stimulation of Moraine & Bermuda formations.

- **Gulf of Mexico:** Fracture and Frac Pack modeling for Wilcox sands in the Deepwater.
- Lower 48 Related Projects
 - **Permian Basin:** Provide inputs for multi-well pad futuristic wells & Multilaterals.
 - **Eagleford:** Led feasibility study for potential applications of Multilateral.
 - **Training** – Conduct Hydraulic Fracturing Training courses for personnel worldwide.

Senior Staff Engineer, Global Wells

Feb 2010 to Mar 2013

- Assisted in well Stimulation and Completions for ConocoPhillips wells worldwide.
- Fracture Stimulation Design Projects:
 - **Permian Basin:** Multi-stage Horizontal well completions in Grayburg.
 - **San Juan:** Mancos Shale completions.
 - **Algeria:** Designed and executed first successful COP fracture in MLN field.
- Other Projects:
 - **Vietnam:** Hydraulic Fracturing Completion Tender for Su Tu Trang (Offshore).
 - **EagleFord Shales:** Completion Support on Field Development
 - **Permian Basin:** Completion Support for Bone Springs & Wolfcamp/Spraberry play
 - **Canada:** Surmont Phase – 1 & 2 Injection Well Diagnostics & Modeling
 - **South Texas – L48:** Lobo Field Horizontal Well Feasibility Study
- Advise/Contribute to Stimulation/Completion Review Workshops
- Conduct Training Courses: Hydraulic Fracturing Theory and StimPlan™ Training, etc.
- Train & Mentor young ConocoPhillips Completion Engineers.
- Represent ConocoPhillips yearly at JIP held in University of Texas at Austin, Texas.

Staff Engineer, Permian Basin

Dec 2007 to Jan 2010

- Lead Completions Engineer for Chittim Field, Q3-Q4 2009: Developed revolutionary low rate and viscosity fracture stimulation technique/designs for injector wells.
- Design & Execution Engineer **ConocoPhillips – LukOil JV**
 - **Russia:** Designed and assisted in execution of Optimized Stimulation Treatments on 15 wells in 3 different fields in W. Siberia. Average increase of 125 bbl/day/well.
- Operations Support: Provided expertise to other completion Engineers to eliminate premature screen outs in Wichita Albany and Lower Clearfork formations in Ector/Andrews County, Texas. Worked on strategy for Wolfcamp recompletions.
- Lead Completions Engineer for Tumbleweed Project (Atoka)
 - Designed vertical and horizontal well completions using packers/sleeves completions.
 - Supervise fracture stimulation operations and worked with several vendors.
 - Support routine Completions work in Oklahoma Panhandle operations.

Schlumberger, TX (Jul 1998 to Nov 2007: 9½ Years)

Permian Basin Technical Engineer, Midland, TX

Sep 2005 to Nov 2007

- **Technical Management**
 - Managed a Technical Team comprising 3 District and 1 Technical Support Engineer that provided support and advice to Schlumberger operations in Midland, Sonora and Hobbs.
 - Conducted several Lunch & Learns & Internal Workshops for Clients.
 - Adept in DataFRAC/MiniFRAC/DFIT/MiniFalloff Analysis and expert at “Real-Time” pressure matching on location to aid in decision making process

- **Financial**
 - Assisted in increasing Basin's New Technology Revenue from \$33MM to \$56MM in 2006.
 - Achieved over 50% growth in Net Revenue in 2006 from \$150MM to \$231MM.
 - Developed tools to optimize pricing/bid resulting in over 10% increase in net revenue.
- **Mentoring**
 - Assisted in Recruitment, Training, Mentoring and Progression of young Engineers.
 - Trained 6 Field Engineers to achieve General Field Engineer level during 2005-2007.
 - Developed programs to motivate engineers which resulted in 0% basin-wide attrition in 2006.

Senior Solutions Engineer, Sugarland, TX

Feb 2001 to Aug 2005

- Inventor & Developer of Schlumberger *i-Handbook*. 70,000+ Worldwide Downloads.
- Inventor & Developer of Schlumberger Fracturing Fluid Fracturing Selection Advisor.
- Developed Excel based Proppant Selection Advisor.
- Authored internal Training Documents on Fracturing Fluid Selection Process.
- Major contributor to InTouch – Schlumberger's internal knowledge network.
- Designated ACE (Applied Community Expert) for Hydraulic Fracturing & Fluid Friction.
- Guest Instructor at Kellyville Training Center, Kellyville, Oklahoma.
- Part of several research and feasibility study projects.

Field Engineer, Laredo, TX

Jul 1998 to Jan 2001

- Stand-alone on-location Field Engineer. Carried-out pre-frac injection analysis on routine basis for over 250 wells drilled in Lobo, Walker Stray, Middle Wilcox, Olmos, Perdido, etc. formations in Laredo/Zapata/Alice area for a period of 2.5 years.
- Design Optimization of Hydraulic Fracturing treatments in variety of areas including Deep High-Temperature, High-Pressure, Tight Gas environments of South Texas and shallow low-pressured Olmos formations mostly fracture-stimulated with foams.
- Assisted in introduction of Zirconate cross-linked CMHPG fluids in south Texas.

University of Oklahoma, OK (Aug 1996 to Jun 1998: 2 Years)

Research Assistant, Norman, OK

Aug 1996 to Jun 1998

- Assisted in ongoing research on shale swelling and instability and possible remedies.
- Developed an Expert System to select the most appropriate fluid and solid control equipment for given drilling conditions.

Oil & Natural Gas Commission, India (Aug 1990 to Jun 1996: 6 Years)

Executive Drilling Engineer, Mumbai Offshore, India

Aug 1990 to Jun 1996

- Drilling/Workover - BHN, Neelam, Heera & Panna Fields in western Offshore Shelf.
- Acting Shift-In-charge for a Drilling Crew of 13 on an offshore Jack-up Drilling Rig.
- Skills include:
 - Knowledge of casing design, bit selection and hydraulics, completion string design, drilling and completion fluids, blow-out-preventers and well killing techniques. BHA design for vertical/deviated wellbores.
 - Extremely good understanding of drilling operations due to several years of hands-on experience on rig floor. On "brake", top, mud-pump room, shale-shakers, etc.

- Hands on experience in running casings (30”, 20”, 13-3/8”, 9-5/8”), 7” liners (setting, cementing, etc.), installing wellheads, running production tubing, dual packers, expansion joints, gas-lift-mandrels, SSSV, etc.
- Hands-on experience in complicated drilling operations like oil-spotting, fishing (use of over-shots, extension subs, spiral/basket grapples, mill control packer, etc.), jarring, window cutting and side-tracking, string back-off, etc.
- Zonal isolation using bridge plugs, setting cement retainers and cement squeeze jobs.

Scott Elevators, Sainath Industries, Linkson Polypast, India

Mechanical/Production Engineer, India

Nov 1987 to Dec 1989

- Plant Mechanical & Electrical Maintenance In-Charge: Heavy rotating equipment and PVC-pipe extruders. 3-phase AC and 440 Volts DC.
- Production Engineer in Automobile Ancillary unit. Applied new techniques to quadruple “blowhole-free” cast-iron lubricating oil pump bodies.
- Skilled in heavy containers design, fabrication, and plant automation.

BOOK CHAPTERS

- 1) Pandey, V. J. and Cramer, D. D. 2019. Jennifer Miskimins, Editor-in-Chief. 2019. *Hydraulic Fracturing: Fundamentals and Advancements*. ISBN: 978-1-61399-719-2. *SPE*. (10). 291-344.
- 2) Pandey, V. J. 2019. Jennifer Miskimins, Editor-in-Chief. 2019. *Hydraulic Fracturing: Fundamentals and Advancements*. ISBN: 978-1-61399-719-2. *SPE*. (17). 693-752.

PAPERS/PUBLICATIONS

- 1) Pandey, V.J. and Rasouli, V., 2022. Development of a Fracture Width Induced Net Stress Model to Predict Constraints to Fracture Height Growth. 110429. *J. of Pet. Sci. & Eng.* **213**. June 2022, 110429. <https://doi.org/10.1016/j.petrol.2022.110429>.
- 2) Pandey, V.J. and Rasouli, V., 2022. Estimating Fracture Containment in Layered Formations Using 3D Fracture Growth Assumptions. Presented in the SPE Hydraulic Fracturing Technology Conference and Exhibition, The Woodlands, Texas, USA, 3-5 February. SPE-209151-MS. doi: <https://doi.org/10.2118/209151-MS>.
- 3) Pandey, V. J., 2021. Pressure Interpretation in Acid Fracturing Treatments. *SPE Prod. & Oper.* **37** (02): 346–361. SPE-205990-PA. <http://dx.doi.org/10.2118/205990-PA>.
- 4) Pandey, V.J. and Rasouli, V. 2021. Fracture Height Growth Prediction Using Fluid Velocity Based Apparent Fracture Toughness Model. *Rock Mech Rock Eng.* **54**, 4059–4078.
- 5) Pandey, V.J. and Rasouli, V., 2021. A semi-analytical model for estimation of hydraulic fracture height growth calibrated with field data. *J. Pet. Sci. and Eng.* **202**, July 2021, 108503. <https://doi.org/10.1016/j.petrol.2021.108503>.
- 6) Pandey V. J., Ganpule, S. and Dewar, S. 2021. Optimization of Coal Seam connectivity in Multi-Seam Pinpoint fracturing operations in Walloons Coal measures in Surat Basin Presented at the SPE’s Virtual HFTC, 4–6 May. - 204190-MS and *J Pet Technol* 73 (06): 55.
- 7) Pandey, V. J. and Rasouli, V., 2021. Vertical Growth of Hydraulic Fractures in Layered Formations. Presented at The Virtual SPE Hydraulic Fracturing Technology Conference, The Woodlands, TX, USA, 4–6 May. SPE-204155-MS. <http://dx.doi.org/10.2118/204155-MS>
- 8) Pandey, V. J., Burton, R. C. and Capps, K. 2020. Real Time Analysis of Formation Face Pressures in Acid Fracturing Treatments. *SPE Prod & Oper* **35** (04): 0910–0928. SPE-194351-PA and *J Pet*

Technol 71 (06): 59–60.

- 9) Leonardi, C.R., Flottmann, T., Pandey, V.J. et al. 2019: Quantifying the influence of Three Dimensionality on Hydraulic Fracturing in Coal Seam Gas Wells. Presented at the SPE/AAPG/SEG Asia Pacific Unconventional Resources Technology Conference, Brisbane, Australia. 18-19 Nov. SPE-198203-MS URTEC.
- 10) Pandey, V. J. et al. 2018; Fracture stimulation challenges in Tight Wallowoos Coal Measures: Surat Basin coals, Australia. Presented in SPE Asia Pacific Oil & Gas Conference and Exhibition, Brisbane, Australia, 23-25 Oct. SPE-191958-MS.
- 11) Nozaki, M., Burton, R.C., Pandey, V.J. and Furui, K. 2017. Lessons Learned from Evaluation of Frac-Pack Flow Performance before and after Full Clean-Up. SPE Annual Technical Conference and Exhibition, San Antonio, TX, 9-11 Oct. SPE-187227-MS.
- 12) Burton, R.C., Gilbert, W.W., Nozaki, M., Pandey, V.J., Adams, M.D., Peterson, E.M., Zhou, L., Ray, A.W., Fleming, G. and Leitch, J., 2017. Multi-Zone Cased Hole Frac-Packs and Intelligent Well Systems Improve Recovery in Subsea Gas Fields, *SPE Drill & Compl* **34** (03): 280–295. SPE-187075-PA.
- 13) Pandey, V.J. et al. 2017; Applications of Geomechanics to Hydraulic Fracturing - Case Studies from Coal Stimulations. *SPE Prod. & Operations* **32** (04): 404–422. SPE-173378-PA.
- 14) KirkBurnnand, E., Pandey, V. J., Flottmann, T. and Trubshaw, R.L., 2015. Hydraulic Fracture Design Optimization in Low Permeability Coals, Surat Basin, Australia, SPE 176895 presented at the SPE Asia Pacific Unconventional Resources Conference and Exhibition, Brisbane, Australia. 9-11 Nov. SPE-176895-MS.
- 15) Pandey, V.J., Burton Jr., R.C. and Nozaki, M., 2015. Evolution of Frac-Pack Design and Completion Procedures for High Permeability Gas Wells in Subsea Service. *SPE Production & Operations* **30** (03): 179–194. SPE-168636-PA.
- 16) Pandey, V.J. and Agreda, A.J., 2014. New Fracture Stimulation Designs and Completion Techniques Result in Better Performance of Shallow Chittim Ranch Wells. *SPE Production & Operations* **29** (04): 288–309. SPE-147389-PA.
- 17) Pandey, V., et al., 2007. Fracture Stimulation Utilizing a Viscoelastic Surfactant Based System in the Morrow Sands in Southeast New Mexico. Presented at the SPE International Symposium of Oilfield Chemistry, Houston, TX, 28 Feb – 2 Mar. SPE-102677-MS.
- 18) Pandey, V. and Dury, V., 2005. Developing a Fracturing Fluid Selection Advisor, presented at PETROTECH 2005, held in New Delhi, India, January 2005.
- 19) Pandey, V. and Goel, N., 2003. Effect of Well Deviation on Slurry Friction Pressures. Presented at the SPE Production & Operations Symposium held in Oklahoma City, Oklahoma, 23-25 Mar. SPE-80898-MS.
- 20) Weng, X., Pandey, V., and Nolte, K.G., 2002. Equilibrium Test - A Method for Closure Pressure Determination. Presented at SPE/ISRM Rock Mechanics Conference held in Irving, Texas, 20-23 Oct. SPE-78173-MS, and *J Pet Technol* **55** (03): 52–56.
- 21) Pandey, V. J. and Robert, Joel A., 2002. New Correlation for Predicting Frictional Pressure Drop of Proppant-Laden Slurries Using Surface Pressure Data. Presented at the International Symposium and Exhibition on Formation Damage Control, Lafayette, Louisiana, 20-21 Feb. SPE-73753-MS.
- 22) Pandey, Vibhas J. and Osisanya, Samuel O., 2001. Development of an Expert System for Solids Control in Drilling Fluids", presented in 49th Annual Technical Meet of Petroleum Society of Canada, 1998; published by Canadian Journal of Petroleum Technology, Sept 2001, (40)- 9, pp. 50-59.
- 23) Pandey, Vibhas J., 2001. Friction Pressure Correlation for Guar Based Hydraulic Fracturing Fluids. Presented at the Rocky Mountain Symposium, Keystone, CO, 21-23 May 2001. SPE-71074-MS.

PRESENTATIONS & SPE WORKSHOPS

- 1) Pandey, V. 2022: Co-chair and Discussion Leader in SPE Acid Stimulation Workshop Abu Dhabi. June 2022.
- 2) Pandey, V. 2019. “Real Time Decision Tool”. ConocoPhillips’ Internal workshop. Aug 2019.
- 3) Pandey, V. 2018. “APLNG Operations in Surat Basin, eastern Australia,” for ConocoPhillips. March 2018.
- 4) Pandey, V. 2017. “Challenges in Hydraulic Fracturing Treatment Designs for Walloons Coals”. Invited Presenter in SPE Workshop: Unconventional Resources – Tools and Practices for Optimal Exploration, Appraisal and Development, Brisbane, Queensland, Australia. 20 – 21 November 2017.
- 5) Pandey, V.: “Well Performance after Hydraulic Fracturing Treatments”, Invited Presenter in SPE Workshop “Hydraulic Fracturing – Building on the Past to Create the Future”, Singapore, April 2014.
- 6) Pandey, V.: “New Generation of UR Wellbores: The Multilaterals Business Case Examples”, Presented at ConocoPhillips Global Wells Unconventional Resources Conference, Woodlands, TX, Sept 2014.
- 7) Lund, Hans, Pandey, V.: “Paradigm Changing Wellbore Design”, Presented at ConocoPhillips Global Wells Unconventional Resources Conference, Woodlands, TX, Sept 2014.
- 8) Pandey, V.: “Evolution of Sand Control Related Fracture Stimulation Designs in Natuna Sea, Indonesia”, Invited Talk presented at ConocoPhillips Global Wells Symposium, held in Woodlands, TX, November 2013.
- 9) Co-chair of 2nd Geomechanics Workshop for Day 1 Session related to Hydraulic Fracturing, ConocoPhillips, Houston, TX. Nov 2012.
- 10) Pandey, V.: “Foamed Fracturing”, short course presented to ConocoPhillips audience in Global Wells Symposium, Woodlands, TX, November 2012.
- 11) Invited to be Keynote Speaker at Schlumberger Client Advisory Board (CAB) Meeting held in Madrid, Spain, June 6th – 7th, 2012.
- 12) Pandey, V.: “Tumbleweed Completions”, Presented ConocoPhillips Global Well Symposium, Woodlands, TX, October 2008.
- 13) Pandey, V.: “Applied Solutions for Multi-layered Completions in the Permian Basin”, Presented at the SPE RTW on Horizontal Well Stimulation held in Midland, TX, June 2007.

COURSES TAUGHT/IN-PROGRESS

- 1) More than 21 short courses on Hydraulic Fracturing delivered in 20+ years (2001 to 2022).
- 2) Hydraulic Fracturing & StimPlan™ and GOHFER™ hands on training course. Alaska. Mar. 2022.
- 3) Pet. Engg: Completion Engineering PTRE 475/575 – University of North Dakota. Spring 2022.
- 4) Hydraulic Fracturing Theory and StimPlan™ Training. UND. Summer 2020 and Spring 2021.
- 5) Acid Fracturing Theory and StimPlan – Norway, September 2020.
- 6) Fracturing Theory & StimPlan – US L48, Australia, Vietnam, Indonesia, Norway, and China.
- 7) Frac Packs and Sand Control Theory and Practice: Indonesia and China (2014 and 2018).
- 8) Acid Fracturing Theory and Stimulation: Norway (2015 and 2017).
- 9) Hydraulic Fracturing for Beginners – LukOil personnel in Houston, Algeria. 2012
- 10) Several Advanced Fracturing Stimulation courses in Schlumberger – 2001 thru 2005.
- 11) Fracturing Fluid Selection and Slurry/Fluid Friction Pressure Analysis: - 2001 thru 2006.

MEMBERSHIPS, PATENTS AND AWARDS

1. Memberships:

- 1) SPE Member since 1997.
- 2) SPE Paper peer-review committee member for various SPE Journals and publications.
- 3) Current member of SPE's ATCE Committee. Co-chair in upcoming Oct. 2020 Conference.
- 4) Invited member of Pi Epsilon Tau, Honor Society of Petroleum Engineering.

2. US Patents:

- 1) Methods for Real Time Treatment Data Interpretation. US 11,236,603. Feb. 1, 2022.
- 2) Methods of using dissolvable material for leak-off control in Acid Fracturing Treatments. U.S. Patent 11,124,690. Sept 21, 2021.
- 3) Methods And Systems for Monitoring Fluid Placement During Stimulation Treatments. U.S. Patent 8,230,917. Jul 31, 2012.
- 4) Schlumberger i-Handbook: Method and System and Program Storage Device for Storing Oilfield Related Data in a Computer Database and Displaying a Field Data Handbook on a Computer Display Screen: - US Patent 7,966,569. Jun 21, 2011.
- 5) Method of Preventing or Reducing Fluid Loss in Subterranean Formations – US Patent 7,786,051. Aug 31, 2010.
- 6) Method Of Predicting Friction Pressure Drop of Proppant Laden Slurries Using Surface Pressure Data – US Patent 6,863,128. Mar 8, 2005.
- 7) Wellbore Fluid Treatment Selection Advisor – US Patent 6,826,482. Nov 30, 2004.

3. Recent Awards/Recognition:

- 1) \$1,000 Award and Recognition by Alaska BU for assistance in fracture stimulation of Alpine C sands in North Slope, resulting in record production from the well. Jan 2022.
- 2) Recognition awards for contributing to Norway Acid Stimulation and Refrac Workshops.
- 3) \$250 Award and Recognition by Alaska BU for work done on Disposal well and water injector containment guidelines to help set up operational envelop proposal sent to EPA. April 2020.
- 4) Recognition for Suban-14 Success – Indonesia onshore well where the output doubled after intervention. Sep 2019.
- 5) \$500 Award for outstanding contributions to APLNG work done for Australia Business Unit in 2017. Oct 2017.
- 6) \$1,000 Award for pioneering the efforts on improving fracturing fluid quality in Norway. June 2016.
- 7) APLNG Ramyard Pilot Successful Execution – Recognition from Origin Energy, Australia. 2015.
- 8) Team member in ConocoPhillips Indonesia SPIRIT Award for “South Belut Completion Team” in 2015.
- 9) Team member in ConocoPhillips Indonesia SPIRIT Award for “Innovation in Creating “Frac Vessel” for Offshore Completion Team” in 2014.
- 10) Certificate of Appreciation for commitment to Technical Training at ConocoPhillips in 2013.
- 11) \$500 Special Recognition by L48 for assisting in design and execution of treatments in Waddell Ranch Horizontal Well Pilot program in Grayburg formation. September 2012.
- 12) \$1,000 Award for Designing, Planning & Executing First Hydraulic Fracturing treatment in MLN Field by ConocoPhillips. April 2012.
- 13) \$1000 Special Recognition Award from Global Completion Engineering group for extra efforts involved in Completion Engineering Design for Vietnam to assist in Fracturing

Tender and for offer Hydraulic Fracturing Expertise to CBM Wells in Surat Basin, Australia. December 2011.

- 14) Archimedes Give Award for 2009 LukOil Fracturing Campaign – 2010.
- 15) \$500 Special Recognition by MCBU Chittim Team for offering expertise in Chittim Injector wells and for Wolfcamp/Spraberry Edwards area re-completion pilot.
- 16) Letter of Appreciation from LukOil, Kogalym BU. January 2010.
- 17) \$1,000 Special Recognition from Russia & Caspian Region for successful fracture campaign with LukOil in Kogalym, Western Siberia, Russian Federation. June 2009.
- 18) Company Restricted Stock Grants every year starting 2009.
- 19) Key ConocoPhillips Employee: April 2013 onwards.

SOFTWARE

- 1) Adept in Fracture Optimization Techniques using stimulation and post-stimulation production data. Advanced user of **FracCADE™**, **StimPlan™**, and **GOHFER™**.
- 2) Production History analysis and matches – **WellTEST™**, and **WellWhiz™**
- 3) Adept in use of Nodal Analysis tools like **PIPESIM™** and **PERFORM™**.
- 4) Good understanding of Pressure Transient and Well Test Analysis. Have extensively used **WellTest™**, **Promat™**, **ProCADE™**, **ProFIT™**, and **RTA™**.
- 5) Expert in Microsoft Excel™ based and VBA programming. Developed fracture height growth and pressure history match simulator for PhD projects.