Resume Kanhaiya Kumar Jha

Qualifications & Personal Information

1986 Bachelor of Technology in Petroleum Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad (1st Class), India

1998 Master of Technology in Petroleum Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad (1st Class), India

Date of Birth : January 6, 1965
Family Status : Married & Two Sons

Key Competencies

- Extensive experiences in Reservoir Management of clastic & carbonate reservoirs: Improved Oil Recovery (IOR) Projects (development and re-development) and in Enhanced Oil Recovery (EOR) pilot evaluation & projects.
- Reservoir Modeling & Simulation and Preparation & Review of Field Development, Re-development Plans (FDP), Petroleum Economics and Investment Decisions.
- Well Test Planning & Design, Interference Test, Advance Pressure Transient Interpretation & Analysis
- MDT, DST Design & Interpretation, RMP: PLT, PNL (TDT & RST) Tracer & Reservoir data acquisition. Also have worked as a Petroleum Engineer and handled projects independently.
- Well & reservoir wise & Full Field performance review, Production & Injection performance analysis & optimization and forecasting, Water Flood Surveillance & Management, workover, field problem issues & mitigation.
- Reserves estimation, classification & categorization (SPE PRMS 2018 and Guidelines), techno-economic, risk analysis and preparation of annual reserves and resource register. Have conducted several International Conferences and workshops on PRMS, Reservoir Management & Maximizing Field Recovery Efficiency.
- Have extensive international experiences of Oil & Gas Asset evaluations, Due diligence, Data room visits, Preparation of Competent Person Technical Reports, Business Plan, short, medium & long Term, and technical bid evaluations.
- Have direct experiences working with several internationally reputed petroleum consulting companies; DeGolyer and MacNaughton, Gaffney Cline Associates and others and international petroleum-reservoir engineering experts.
- Extensive international experiences of working in multinational joint ventures (Total, British Petroleum & other International Oil & Companies) and in multi-cultural environment.
- Have extensively assisted the senior counsels on technical aspects in International Arbitrations for the disputes arising under Production Sharing Contracts.
- Softwares Skills: Eclipse & Petrel RE, CMG, OFM, MBal, Prosper, Kappa (Saphir, Topaz, Rubis), Pan System, ProSource (previously Finder), Questor, Peep Merak (Economic evaluation, planning and decision making**),** FORGAS etc.

Summary of Experiences

Indian Institute of Technology (ISM) Dhanbad, Jharkhand, India – Currently serving as a Professor full time in the Dept of Petroleum Engineering since 15th January 2026**: Teaching final B. Tech (Petroleum Engineering) students** – Integrated Reservoir Management (a course on oil and gas field development and management), Reservoir Characterization, Petroleum Economics, Advance Well Completions, Formation Evaluations and Cased Hole Logging, Project Works and Liaison with the Oil & Gas Industries.

Beicip-Franlab India – a unit of Reputed International Energy Consultancy Company in Rueil-Malmaison, Paris, France - Served in a position of Expert Reservoir Engineer (October 2024 to 31st December 2025)**:**

- Currently working on aging fields rejuvenation project: The tasks include integration of historical data mining and analysis, subsurface reservoir studies – static and dynamic modeling, well performance analysis, redevelopment opportunities, restoration of sick wells, vertical lift performance, scoping of EOR processes and its execution.

Hardy Exploration & Production (India) Inc. (HEPI) a USA based company – a part of Invenire Energy Group Company (12th May 2023 to 31st March 2024) - served at a position of Vice President**:**

- Domain expert on petroleum-Reservoir Engg – Responsible for Field Development and Redevelopment Plans, Field Performance Reviews, Reservoir Modeling and Simulations studies. The Company has producing oil field assets in India and Indonesia.
- Heading Satpura Coal Bed Metane (CBM) Block Project in Madhya Pradesh where corehole drilling activities are to commence shortly.
- Advising the top management on new Business Opportunities, its assessment, due diligence and technical interactions.

Designated as Group General Manager (Reservoir Engg, Executive rank-8 level of ONGC Ltd.)- Advisor-Domain Expert & Head of Department (Petroleum-Reservoir Engg) from 2nd Jan 2017 to 10th May 2023:

- Domain Expert (Petroleum-Reservoir Engineering) and providing technical support to Producing Assets on Reservoir Management and maximizing the Recovery Factor.
- Evaluation and review of Determination of Commerciality (PRMS standard), Field Development Plans, Revised Field Development Plans of oil, gas and CBM fields.
- Reviews of Reservoir Numerical Simulation Models, Material Balance Studies and Decline Curve Analysis of FDPs & RFDPs and EOR Projects.
- Evaluation of Reservoirs of fields to be put up in Bid during DSF and HELP rounds.
- Chairperson of Technical Sub-committee for monitoring and management of NOC's fields.
- Member of various committees on Policy formulation viz. EOR (ER Incentive Policy, Oct 2018 of Govt of India), PEC etc.
- Have been technical Head to provide support and making technical reports, responses and reply pertaining to Reservoir Engineering for the DGH & MoP&NG.
- Have been the member of an expert committee of MoP&NG, Govt of India on KG Basin PSC Fields.
- Have extensively worked as an internal technical expert in International Arbitrations for the disputes arising under Production Sharing Contracts between the Government of India and PSC contractors. Have assisted renowned Senior Counsels on technical subjects; also have an opportunity to personally explain technical specialties to Learned Attorney General and Learned Solicitor General of India.
- Have closely interacted with Director General, Directorate General of Hydrocarbons (DGH) and MoP&NG on various E&P projects of national importance and matters concerning important technical decisions.
- Enhanced Oil Recovery study and its implementation in future FDPs/RFDPs.
- Implementation of Petroleum Resources Management System (PRMS) in the country, auditing and maintaining "Book of Reserves & Resources" at country level for conventional and unconventional hydrocarbons. PRMS 2018 was first time adopted at country level in DGH for all conventional & unconventional Hydrocarbons - Reserves and Resources under all petroleum operating regimes i.e., Nomination, PSC, OLAP and CBM.

ADCO, "Abu Dhabi Company for Onshore Petroleum Operations Ltd." Abu Dhabi, UAE

Jan 2014 to November 2016:

Worked as a Senior Reservoir Management Engineer in Bab Asset Team (Oil reservoir)

Responsible for:

- New oil reservoir which was commissioned (Phase-1) in yr2015, simulation study and executing its development plan
- Two oil reservoirs relatively of low permeability were under appraisal phase where WAG (water alternate CO2) is to be implemented
- Preparation of Reservoir Monitoring plan (RMP), its execution & remained associated with interpretation of PLTs
- PTAs job for the developed giant, under-development & reservoirs under production-appraisal phase for dynamic data acquisition and simulation
- Estimation of reserves by Decline curve (Software: OFM) for reservoirs under production
- Preparing and reporting of reserves and resources of Bab Asset fields
- Annual Reservoir Performance Report (ARPR) preparation for Bab Asset
- Performed analytical and numerical advance pressure transient interpretations of Interference Tests, carried out for a pair of parallel long horizontal an oil producer and a water injection wells in low permeability tight carbonate reservoirs

Have performed about 30 PTAs of long & complex horizontal, slanted, multi-layered (up to 11,000 ft long trajectory).
Interpreted & prepared report for 8 Step Rate Tests performed in various reservoirs of Bab field to estimate Frac- gradient.
Supported drilling & work-over group (DWS) on regular basis for well prognosis through electronic well delivery process (e-WDP)

PETRONAS Carigali Sdn Bhd, "Malaysian National Oil Company" Kuala Lumpur
Dec 2012 to Jan 2014:

- Worked on redevelopment projects and simulation study of two brown fields Erb West & Tembungo.
- All infill locations were high angle and horizontal and intelligent well completions such as ICD and ICV with premium sand screen; were planned to optimize the oil production and control water and gas in these matured brown fields.
- Have been on the panel of technical & commercial bid evaluations of ICD & ICV downhole equipment and logging & well testing services.

Sonangol P&P, National Operating Oil Company of Angola, Luanda
Sept 2011 to Nov 2012: Reservoir Modeling & Simulation Projects for Offshore and Onland fields Petrel RE & Eclipse), DST design and interpretation (Kappa Software), Vertical Flow Performance (VFP) studies & Tubing Size Optimization (Prosper Software)

- Carried out Reservoir Modeling and simulation study of Morsa West field (an offshore field) after up-scaling the Geo-cellular static model and simulation studies on Petrel RE platform (Eclipse).
- Carried out tubing size selection studies for the New Field Development of Punja field, a volatile oil reservoir on Prosper Software. The field was planned to be developed with high angle & horizontal wells.
- Carried out Reservoir Modeling and Simulation of Dinge reservoirs, a green field (Cabinda Onland) on Petrel RE platform.
- Made DST design for two wells (exploratory/appraisal) planned for drilling one each in Offshore & Onland.
- All works performed were presented to the concessionaire's partners on regular basis in technical committee meetings.

Jubilant Energy in National Capital Region, Delhi & other medium size E&P Companies Adani Welspun Exploration Ltd. and Essar Exploration & Production Ltd. (April 2008 to Sept 2011): Worked as a Chief Petroleum & Reservoir Engineer and as Associate Vice President.

The major assignments performed:
Tripura Block

- DST design, execution, Interpretation, Report writing (done in house) and submission to Directorate General of Hydrocarbon (DGH) of a significant gas discovery in Tripura.
- Carried out advance pressure transient interpretation using deconvolution techniques (kappa software) and firmed up the reserves.
- Designed extensive DST tests (Kappa software) for appraisal well testing plan for establishing additional potential reserves.
- Have been on the panel of technical & commercial bid evaluation s of downhole equipment and logging & well testing services.

Kharsang field in Arunachal Pradesh (India)

- Completed Phase-II re-development and production level doubled.
- Completed well testing and interpretation of free gas reservoir and made production forecasting.
- Interpreted all old and new pressure transient studies on PanSystem & Kappa softwares.
- Had designed and executed a field scale interference test involving a dozen of wells to determine inter well connectivity at reservoir scale in Kharsang field.
- Analytical reservoir simulation for 3 layers carried out on MBAL Software.
- Worked with GCA consultant for CPR.

Technical Evaluation

- Made technical due diligence of the **commercial oil & gas assets in Nigeria (Shell) & Russia (Siberia and Yamal Peninsula)** and in this regard visited Siberia (Russia) twice.
- Worked with M/s GLJ consultants of Canada during an Asset evaluation exercise of Heavy Oil field in **Madagascar of M/s Madagascar Oil** and in this regard visited **Madagascar and Houston, USA.**

Responsible for

- Maintaining Reserves register and reporting of reserves.
- Reservoir engineering activities in operating and non-operating blocks and Technical Committee Meetings.

Oil and Natural Gas Corporation Limited, India (Sept 1986 – April 2008)

(June 2007 to April 2008): Assisted - Director (Exploration), ONGC at Corporate Headquarter, New Delhi in domains pertaining to Petroleum and Reservoir Engineering:

- On field development, redevelopment plans (FDP & FDP Revisions…) of new and producing fields
- Book of Reserves, annual auding and reporting
- Performance Analysis of all ONGC fields, Annual and Long Term Oil & Gas production profiles
- Advising Director (Exploration) Reserves and Resources (Oil & Gas Recoverables) estimation and management at country level of ONGC fields

ONGC Videsh Limited, New Delhi, a Subsidiary of ONGC Ltd. for overseas assets (worked for OVL from ONGC Ltd.)

- Evaluated number of fields/assets located in the countries Indonesia, Venezuela, Nigeria and Russia. Visited various countries; Italy, Norway and Russia (TNK BP fields) for data room visits.
- Have done large number of technical studies and reviews.

Mumbai High Asset
(Sept. 1986- April 1999) Offshore Fields

From Sept 1986 to Dec 1993 ((Worked for seven years in Mumbai offshore).

From Jan. 1994 to April 1999

- Was associated with Reservoir simulation of Mumbai High field, preparation of feasibility report for additional development of the world class giant oil field.
- Analytical reservoir simulation, estimation of reserves using material balance techniques & decline curve methods (MBal software). Performed number of techno-economic analysis of the new and re-development schemes.

(May 1999 to May 2002) Assam Asset, Nazira: Onland Fields

- Reservoir Management of sandstone reservoirs Rudrasagar & Lakwa, Numerical Simulation of TS-3 sand of Lakwa field (Software: WorkBench), Single well Simulation of Horizontal well, for application in ageing and mature reservoirs of Rudrasagar & Lakwa fields.
- Prepared Field Development Plan &Technological Scheme for Improved Oil Recovery Projects in aging fields.

(June 2002 to May 2007): Exploration & Development Directorate, Dehradun

- Preparation & Review of field development, re-development plans of green & brown oil & gas fields mostly in Eastern & Western offshore and in Western & Southern onland and in joint venture fields.
- Worked in maintaining reserves & resources register and its auditing by the International Consultants (GCA).
- Preparation of Long-Term Oil & Gas Profiles, Asset Impairment Exercises.
- Interpretation of Pressure Transients of DSTs performed in the discoveries of offshore fields. Interpretation of Double Packer MDT-Mini DST carried out in ultra-deep water field to assess the reservoir character & potential of gas reservoir.

Softwares Skills

Reservoir Simulators : Eclipse, FrontSim, WorkBench, Petrel RE, Exposure to CMG-IMEX
Petroleum & Reservoir Engineering: Prosper, MBAL, GAP, PVTsim, OFM, PAN System, Kappa (Saphir, Topaz, Rubis), PanSystem, DWS, ProSource (previously Finder), Questor (Field Development & Costing), Peep Merak (Economic evaluation, planning and decision making) and FORGAS

Professional Courses Attended

Pan System (Pressure Transient Interpretation)	*Edinburg Petroleum Services*	*1996*
Eclipse 100: 3D-3P Black Oil Simulation	*Schlumberger*	*1998*

OFM: Oil Field Manager	*Schlumberger*	*1998*
Kappa (Saphir, Topaz)	*Reservoil/Kappa*	*1998*
MBAL	*Reservoil/PE*	*1998*
PVT Modeling	*Reservoil/PE*	*1999*
Prosper	*Reservoil/PE*	*1999*
Well Test 200	*Schlumberger*	*1999*
Petrel - 3D geological modeling	*Schlumberger*	*2005*
Dynamic Modeling & Simulation (Petrel RE)		
Reservoir Geophysics	*Canadian Petroleum Institute*	*2005*
4 D Seismic & its Interpretation	*External Faculty (ONGC)*	*2006*
Decision and Risk Analysis2005	*External Faculty (ONGC)*	*2007*
Special core analysis	*Core Lab*	*2009*
Petrel RE 2011: Reservoir Modeling and Simulation on 2011 Version	*Schlumberger*	*2012*
Advance SCAL Studies	*Jess Stiles (UK)*	*2015*
ProSource (Data Base Management)	*Schlumberger (Abu Dhabi)*	*2015*

Training abroad & Membership

- *For two weeks during November-1994, on reservoir simulation and advance pressure transient testing at M/s. JTI Inc., Tulsa, OK, USA. Trained on uses of 'Tetrad' black oil simulator and 'Automate' pressure transient interpretation software.*
- *February 2011: Attended a Workshop & Middle East Reservoir Testing Advisory Board meeting of Schlumberger in Dubai and visited Schlumberger´s Abu Dhabi training center.*
- *Petrel RE 2011: Reservoir Modeling by Schlumberger in Luanda, Angola*
- *Member of Society of Petroleum Engineers (SPE), Dallas, USA*
- *Life Membership of Association of Petroleum Geologists (APG), India*

Publications

i. A spreadsheet program to study the sensitivity of horizontal well performance in an active water drive reservoir; at Petrotech-97, Pet. Conference & Exhibition held in New Delhi.

ii. Experience of Side-track in Bombay High Field; SPE 39564, paper presented at 1998 SPE Oil & Gas conference and exhibition held in New Delhi.

iii. Pressure Transient Studies- A dependable analytical tool for updating geological/ reservoir model for effective reservoir management- a case history, at Petrotech-2005, Pet. Conference & Exhibition held in New Delhi.

iv. Well Testing Response and its Application for Development of High Pressure –High Temperature, Deep, Thin Clastic Offshore Reservoir - A Case Study, at Petrotech-2007, Pet. Conference & Exhibition held in New Delhi.

International Conferences & Workshops:

i. Organized and conducted a practical workshop of DGH for upskilling the Petroleum-Reservoir Engineers, Geo-Scientists, Financial Analysts and Investment Banking Executives from E&P Companies and Financial Institutions on Petroleum Resources Management System (PRMS) in collaboration with "DeGolyer and MacNaughton (D&M), Dallas, USA" – 10 to 12 January 2023, New Delhi (physical mode).

ii. Chaired an Expert Session "Maximizing Recovery Factor in Producing fields" in an MoP&NG international technical conference "Upstream Ahead Summit 2022" – 8 & 9 April 2022 (virtual mode).

iii. Have organized several workshops and interactions in DGH with the Operators on i. Enhanced Recovery Policy, ii. Petroleum Resources Management system, iii. Good Reservoir Management Practices & on several other technical areas.

iv. An executive member of "**Society of Petroleum Professionals (SPP)"** in India that interacts with DGH and MoP&NG, Govt of India on Policy, technical matters and organizing conferences, symposium & workshops for E&P sector.

v. Have regularly attended International Conferences namely, Petrotech(s) at New Delhi and IEW (1st time in 2023 at Bengaluru), CERA Week(s) at New Delhi, OTC at Dubai in 2016, Petroleum Conferences & Exhibitions at Kuala Lumpur, ADIPEC(s) technical conferences at Abu Dhabi and SPE technical meetings.

Behavioral Competencies

- Leadership: Focused on deliverable performance as per the needs of the business.
- Strategic Thinking: Functioning to translate value propositions into a coherent vision of the Company.
- Business Awareness: Ensures the generation, execution and reporting of key component activities of the Business Plan.
- Communication: Effective verbal communication & Good presentation skills.
- Initiative: Proactive attitude for making the job easier and making the job to happen.
- Experience of working in multi-disciplinary and multi-cultural team environment.