

Curriculum Vitae

Name: Dr. Tarek Arabi Ganat

Profession: Associate Professor

Personal Details:

Nationality: Libyan

Date of Birth: April 11, 1968

Status: Married

Visa Status: holder Malaysian RP Visa



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Career Summary

Professional Experience in oil and Gas Industry

More than twenty-five years' overseas work experience was developed in both oil and gas industry and education sector and largely focused on production and reservoir engineering. Considerable experience in the application of petroleum industry related packages in multinational and multicultural JV's.

Summary of my Teaching Experience in university and training centers:

I have long years of work experience in education sector, and as Visiting Lecturer in University and training centres.

University -Undergraduate and Postgraduate

Reservoir engineering, Applied Reservoir engineering I & II, Production Technology-I, Production Technology II, Introduction, Fluid Mechanics, Pressure Transient, Enhanced oil recovery, and Reservoir rock and fluid Properties (Al-Refaq University).

Training Centers

Production Technology, Pressure Transient, PVT Fluid Analysis, and Reserve Estimations, (NOC. Tripoli, Libya)
Scale Analysis, (ONYX. Kuala Lumpur, Malaysia).

Education

- **PhD Degree** in "Petroleum Engineering" IIUM-Kuala Lumpur, Malaysia. **2016.**
- **Msc Eng Degree** in "Engineering Management" Tripoli University-Tripoli, Libya. **2005**
- **Msc Eng Degree** in "Petroleum Engineering" ISE University- Spain/Madrid. **2003**
- **BSc Degree** in "Petroleum Engineering" Tripoli University- Faculty of Petroleum Engineering Tripoli, Libya. **1992.**

Key competencies

- More than 25 years' experience in oil & gas field development planning, production forecasting, performance review, reservoir management and EOR studies and simulation.
- Specialist skills in oil and gas reservoir development planning, simulation, forecasting, monitoring, reserves estimation, and field problem mitigation issues.
- Analysis and performance review of the major fields for arresting the production decline and improving the recovery.
- Advised and reviewed the Reservoir Management Plans for many oil and gas fields in domestic and international basins.
- Provided reservoir engineering advice to the new field acquisition and prospect evaluation group.
- Confident leader and strong mentoring skills.
- Considerable experience of working in multinational and multicultural JV's.
- Professional skill and Extensive experience for more than 3 years in training centers and Visiting Lecturer in University.

Employment History and Experience

Sultan Qaboos University, Muscat, Oman (September 2021 – to date)

Job Profile/ Responsibilities:

Teaching

- Petroleum engineering faculty member, responsible for providing effective teaching and student learning support in the Petroleum Engineering Technology & Science program areas.
- Teaching the following subjects for undergraduate and postgraduate programs:
 - ✓ Production Engineering
 - ✓ Advanced Production Engineering
 - ✓ Well Stimulation
 - ✓ Field Processing of Natural Gas
- Advising students at the undergraduate and graduate levels, a demonstrable research capability that will enable to develop and sustain an internally and/or externally funded research program in my area of expertise and publish research findings in refereed journals.

Associated Professor, Department of Petroleum Engineering, Universiti Teknologi PETRONAS, Perak, Malaysia (August 2017 – August 2021)

Job Profile/ Responsibilities:

Teaching

- Petroleum engineering faculty member, responsible for providing effective teaching and student learning support in the Petroleum Engineering Technology & Science program areas.
- Teaching the following subjects for undergraduate and postgraduate programs:
 - ✓ Reservoir engineering, I
 - ✓ Applied Reservoir engineering II,

- ✓ Production Technology-I,
 - ✓ Production Technology II,
 - ✓ Introduction to Petroleum,
 - ✓ Well completion
 - ✓ Petroleum Economics
 - ✓ Transient Pressure Test Analysis
 - ✓ Reservoir rock
 - ✓ Fluid Properties.
- Advising students at the undergraduate and graduate levels, a demonstrable research capability that will enable to develop and sustain an internally and/or externally funded research program in my area of expertise and publish research findings in refereed journals.

Lesson Plan

Using different lesson plan during the semester, starting from week 1 to week 14. The following are some of the plans:

Flipped Classroom:

1. Implementation of many collaborative learning. In a flipped classroom, students watch online videos, collaborate in discussions, and carry out research at home while engaging in concepts in the classroom with my guidance.
2. Included activity learning and homework problems, among other practices, to engage students in the content.
3. Enhances teamwork and communication, problem-solving and encourages independent responsibility for shared learning - all essential skills for future practice.
4. Develop debating and analytical skills.

Problem based learning: The base of my practice is listed below:

- 1- Every student work independently first, self-directed research paper before returning to larger group.
- 2- Learning is done in small groups of 4–5 people, with a tutor to facilitate discussion.
- 3- Every student in the group has a role to play.
- 4- Permits for knowledge acquisition through combined work and intellect.
5. Enhances teamwork and interaction, problem-solving and encourages independent accountability for shared learning
6. I have performed this approach to:
 - ✓ Develop communication and team working.
 - ✓ Practice research and information handling.
 - ✓ Improve debating and analytical skills.
7. Teamwork plan and presentation: separated the students to groups and given them a task to discuss with every 5 member and later with all the class.

Active Learning:

1. Case studies were used as examples of active learning techniques as group projects, think-pair-share, peer teaching, debates, and short demonstrations followed by class discussion.
2. Learning enhancement outside classroom: Technical videos were shared with students to improve their understanding capability.

Cooperative Learning:

1. Doing a practical Project for students, every 5 members bring different type of reservoir rock with collaboration with Geoscience depart. Additional information was added by presenting videos and sharing my 25 years work experience background in oil and gas industry. This performed by lesson plan and proved by Lecturer's self-reflection by UTP survey and by using Padlet application (see attached evidence). Evidence: lesson plan.

Research

- Awarded a grant from PETRONAS CARIGALI Bhd. With total amount of RM190,934, under research Title: Developing a machine learning based model for determination of surface wettability using wireline logs.

Supervision

Currently, I am supervising the following number of students in each program:

- 6 PhD, students
- 4 MSc students

- 6 BSc students
- Monitoring 16 Undergraduate students.

Department and University Contributions

- University Research Committee Advisory member
- Institute Hydrocarbon Research Committee member
- CORER Research Center member
- Supervising Special project for SEDEX participation as supervisor for 2 groups
- Assigned as QS custodian for PE department.
- Assigned as Chairman and as examiner for VIVA, RCS, and proposal defense sessions.
- Assigned as a reviewer for YUTP grant proposals.
- Assigned as a reviewer for My-Grant proposals.
- Assigned as a reviewer for URIF grant proposals.
- Assigned as ICOGET2020 committee member as Deputy Head of Sponsorship.
- Assigned as FDP custodian, responsible for surface facilities, economic evaluation and HSE topics. Assigned as the custodian of the Petroleum Economic subject for MSc program.

Senior Reservoir Engineer, Department of Reservoir Engineering, PETRONAS Carigali Sdn Bhd, Kuala Lumpur, Malaysia (January 2011 – April 2016)

Job Profile/ Responsibilities:

- Responsible for evaluating the E&P technical activities.
- Active participation in Joint Technical Committee for many reservoir engineering studies projects and reserve estimations.
- Worked on many field developments studies of the projects in Sudan, Norway, Vietnam, Papua New Guinea, Iraq, Australia, Iran, Ghana, Egypt, Surinam, Brazil, Ireland, UK (North Sea), Myanmar, Qatar, Cameroon, Brunei, Côte d'Ivoire, Gabon, and Malaysia Offshore Deep-water.

Assigned Projects:

In Asia Region

Project	Assigned	Country
Azurite-x3	well test design and well test interpretation	Vietnam
North Malay basin, PM301, PM302 and Bergading field (joint development project between PETRONAS and Talisman)	Optimizing the production performance	Peninsular, Malaysia
Block G & Block N	Advised and reviewed the Reservoir Management Plans for a number of oil and gas prospects	Brunei
10_SEA MO-MD4/5/6 EXP COB Lead-U cluster, and prospect –A	Identification, Planning, Evaluation, Analysis, and build Pre-development FDP	Myanmar
Jade, Turquaz, Pearl 4P, Onex, and Topaz prospects	Identification, Planning, Evaluation, Analysis, and build Pre-development FDP	Myanmar
Ham Rong East structure - well East-1X	appraise hydrocarbon potential and build FDP	Vietnam
well Kumang Manis-1	well test design and well test interpretation	Sarawak, Malaysia
Sepat Parat oil field	generate FDP study of this offshore oil rim field	Sarawak, Malaysia.
North Natuna, Malay basin	Evaluated number of studies conducted by PETRONAS in, for many prospects and leads	Between Malaysia and Indonesia.
Pearl, and Ruby prospects	Generate complete production forecasting profile	Vietnam
Pear (NW & Ruby -7P) and Pearl-4xp	generate the FDP for Basement fractured reservoir	Vietnam
oil and gas leads 1 & 3, Block-1, lead-3	generate Conceptualized, field development plan	Brunei
HP/HT Sotong prospect	Generate production forecasting profile. And recommended operational procedures to ensure maximum oil recovery	Brunei
Diamond prospect	Generate FDP	Vietnam
gas prospects - CA, Pecca, Dong, Gou	Build conceptual FDP	Vietnam

Truc, and Gau Mat Troi leads		
NE Natuna region including Durian Baser Deep Water and Durian Kercil Deep water prospects (Arang Fm and Intra Gabus Fm, and Terumpu Reef Fm)	to evaluate and generate FDP	Sawarak, Malaysia
Ham Rong- 3PX, fractured carbonate reservoir	Advised and reviewed the field development study	Vietnam
gas prospects -Block F and Block 2F, LNG projects	Evaluated number of studies conducted by PETRONAS	Sarawak, Malaysia
JV LNG gas project for Elk and Antelope prospects	Complete FDP was done and production profile was generated for economic evaluation. Final report was completed and sent to top management for further actions.	Papa New Guinea (PNG)
well Kasturi-1	Assigned for well test design and well test interpretation	Sarawak, Malaysia
M5, Sintok, Sirih, and Pegaga prospects., Block SK320	Involved as Committee member in JV project between PETRONAS and Mubadala to generate Pre-development FDP	Sarawak, Malaysia
Bujang-5, PM 313	Evaluation and generate Production forecasting profiles with many scenarios for economic purposes.	peninsular, Malaysia
Blocks PM331, PM 403, PM327 & PM337	Evaluated number of studies conducted by PCSB for gas projects located in Granite Basement reservoir	Peninsular, Malaysia
gas project- Block SK308A	Generate field development plan	Sarawak, Malaysia
Azurite and Bloodstone projects	Advised and reviewed the field development study of the, Clastic reservoir	Vietnam
Blocks SK 309, SK310 and SK 311	Generate production forecasting profile for many prospects and leads	Sarawak, Malaysia
blocks SK-DW2A Kertang (BHP), SK319 F08W (SSB), SK-DW2E-A, SK2E-B, SK2E-C, SK318 Bolai.	Evaluate number of reservoir studies conducted by PETRONAS	Sarawak, Malaysia
well Manikam-1 in Block SB309 (Realgar & Eudailit prospects) & SB307 (Imbok, Maligan & Bambazon prospects)	Reviewed and generate conceptual pre-development Plan to drill exploration	Sabah, Malaysia
Harimau Basar, Harimau Kecil, Harimau Utara, Harimau Selatan, Toe Thrust-A(TT-A), Toe Thrust-B(TT-B), DW-B, DW-C, D DW-A and D DW-B	Worked on JV project (PCSB & NIPON), for 12 prospects and leads and build Pre-field development plan	Sarawak, Malaysia
Empurau prospect	To justifying the appraisal, several FDP scenarios were generated for economical purposes.	Sarawak, Malaysia
SB311 Block including Mutiara, Bloodstone, Andalusite prospects	Involved in PGSS Evaluations for many relinquishment projects in domestic areas	Sabah, Malaysia
Fulkon-1 well in block DWND4	build well test analysis and interpretation	Sabah, Malaysia
Al-Shahean oil filed	Involved in a big study to review and advice for one of the giant oil field in the world.. The first and second production phase of the project was detailed evaluated and come out with final conclusion to the top management for further actions to be taking.	Qatar
BADRA Field project	Visited data room in Dubai to evaluate & Generate complete FDP, 36 production scenarios were performed to define the optimum number of producers and injectors required with high recovery factor. Recommended operational procedures to maximize oil recovery. The project is under production now.	between Iraq and Iran

In Africa Region

Project	Assigned	Country
well Salamat-1 in North Damietta offshore (NDO)	Advised and reviewed the exploration well test design	Egypt
block 6 & block 5A (Thar Jath oil field).	Supervised in-depth studies of 2 major field conducted by PETRONAS for JV heavy oil project between PETRONAS & CNPCI for swap project. Complete feasibility study was performed and discussed with the partners to proceed ahead to apply the swap agreement. Recommended several procedures to improve maximum oil recovery.	Sudan
Blocks 3 and Block 7	Evaluate several projects for economic purposes	Sudan
Off shore deep water project. Paradise prospect and Hickory prospect Tano Basin	Generated Field development plan	Ghana
YOYO prospect (clastic reservoir)	deep water JV project was reviewed and FPD was build and many scenarios were generated to run economic evaluation.	Cameroon
off shore project in Block CI-101	Data review and analysis was performed and generate complete field development plan	Côte d'Ivoire
Tissong prospect- clastic reservoir	Advised and reviewed the Reservoir Management Plans for gas project and final report submitted to top management for final decision	Cameroon
ETUKO & EWOI prospects	Evaluated FDP cases to find the optimum scenario to develop the project as Green oil filed project.	Kenya.
Very deep water projects (2800m water depth) in Blocks F12, and F13. Prospects F12-A, F12-B, F12-C, F12-E, F13-A, F13-B & F13-C.	The FDP was generated for Top Rift and Intra Rift reservoirs for each prospect. Final report completed and submitted to the top Management to take the decision.	Gabon

In Europa Region

Project	Assigned	Country
North Sea (9 BSTB Oil) call CLAIR oil filed	Involved as reservoir engineer with the many disciplines team members to evaluate the project. Visit data room in Aberdeen, and several meeting was held in London with the partners (BB, Shell, and Chevron Taxco & Conoco- Philips). Review all the given data for CORE and RIDGE prospects and complete study was performed such as DCA, well performance, reservoir pressure performance and water injectors performance, well test interpretation, PVT and core data analysis,.....etc. A final report was completed and sent to top management for further actions.	North Sea, UK
gas project , PORCUPINE Basin (Lead-1)	Advised and reviewed the generated Reservoir Management Plans for gas project. Final report completed and submitted to top management.	Ireland
Region HOOP and region Finger Jupet in Blocks 7325, 7322, 7324, lead A, B, C, D	Assigned for bidding round project in deep water (500m water depth). Deep study was performed and complete conceptual field development plan was completed and submitted to top management.	ARTIC area Norway
Midelton gas field, clastic reservoirs (sand –A& B)	FDP was generated based on PCSB evaluation. Analysis and interpretations was presented to the management and accepted. Final report was submitted for further actions need to be taken.	Ireland

In South America Region

Project	Assigned	Country
Block 52 and Block 53	FDP was generated for the prospects located in the	Surinam

	two blocks. Many scenarios were performed for economic purposes.	
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Mentoring and Education

- Acted as “Resource Person / Mentor”
- Major role in the PETRONAS Accelerated Capability Development Program for young engineers. Provided capability development by mentoring, providing training courses, articles and lectures. Taught (1) Practice of Reservoir Engineering. (2) SCAL - relative permeability, capillary pressure and wettability, (3) Rock Properties, (4) Enhanced Oil Recovery, (5) Gas Reservoir Engineering, (6) Reservoir management (7) E&P Core courses, (8) PVT fluid analysis, (9) well test design and interpretation, and (10) well performance.

Visiting Lecturer in ONXY Core lab, Kuala Lumpur, Malaysia (2016)

- Teaching Petroleum Engineering courses for ONYX Core lab staff in Kuala Lumpur, Malaysia.

Senior Reservoir Engineer, Department of Reservoir Engineering, Petro-Canada-(Suncor) LTD (October 2008 – December 2010)

Job Profile/ Responsibilities:

- Participated in 3D modeling for Farigh field (Nubian reservoir)
- Development of the thin oil rims in Mid-Jurassic carbonate reservoirs onshore, Libya
- Conducted conceptual simulation coning study, to determine the best depletion strategies and examined the different scenarios to evaluate the best practice in maximising oil recovery
- Build well test design and interpretation for many wells in NC-12 Area.
- Responsible for generating and modifying the existing form of Annual Review of Reserves report
- Team leader of 5 projects in blocks NC-12, NC-84 and NC-107 in Sirte Basin. Build Conceptual Field Development Plan for 5 prospects in the upper concessions.
- Managed and mentored New engineers staff as part of the company strategy
- Providing technical support role to the exploration team to ensuring quality control for the reservoir engineering section.
- Reviewed DST data (for many tested wells in the NC-12, NC-84 and NC-107) with the primary objective to determine the effective permeability and the skin factor.
- Application of Petroleum Experts Suite of Prosper, MBAL and GAP to prepare the input data for the purpose of reservoir simulation.

Visiting Lecturer in University of Al-Rifag, Libya (March 2007- December 2010)

Teaching Petroleum Engineering students for introductory and advanced subjects such as Reservoir engineering, Applied Reservoir engineering, Production Technology-I, Production Technology II, Introduction to Petroleum engineering, Fluid Mechanics, Pressure Transient, Enhanced oil recovery, and Reservoir rock Properties.

- Supervision of student’s projects for undergraduate students in PE department.

Senior Reservoir Engineer, Department of Reservoir Engineering, REPSOL- YPF / REMSA (January 2006 – September 2008)

Job Profile/ Responsibilities:

Was assigned to the Reservoir department, where I worked in the reservoir management projects. Typical work activities include:

- Daily follow up wells performance, accordingly issuing each month a non routine monitoring plan, related to production data analysis,
- Well completion, optimize workover programs,
- Optimizing the active field development plan.
- Prediction future reservoir performance, and recommending the optimum reservoir management strategy,
- Perform sensitivity study in order to improve oil reserves such as (number of oil producers and injectors (horizontal wells, drain length, orientation, ect),
- Detailed reservoir integrated study. Activities included: Well Test Interpretation, PVT Studies, Well Inflow Performance Evaluation and Material Balance studies
- Interpreting well test analysis using PanSystem and Saphir (Kappa) software,
- Water flood performance analysis.
- Optimize ongoing production operations and data gathering.
- Follow up of reservoir production performance.
- Designing and coordinating petrophysical studies”CCA & SCAL analyses”.
- MDT & RFT analysis.
- PLT analysis.
- Developing cost effective reservoir monitoring and surveillance programs.
- Predicting and evaluating water flood and enhanced recovery performance.

Visiting Lecturer in NOC Institution Tripoli, Libya (2004-2009)

- Teaching new graduation of Petroleum Engineers students and supporting them if the following subjects: Production Technology-I, Production Technology II, Pressure Transient, Enhanced oil recovery, and Reservoir rock Properties.

**Petroleum Engineer, Department of Production Engineering, REPSOL EXPLORATION S.A.
(March 1995 – December 2005)**

Job Profile/ Responsibilities:

During this period, the company was developing El-Sharara field, I was assigned for general duties included:

- Monitoring and assisting in the management of development, production and other JV project activities.
- Review all FDP's activities requirement and ensure implementation.
- Analysis DST's data for all drilled wells in El-Sharara oil field, and interpret all the reservoir parameters such as Mobility, effective permeability skin factor...etc.
- Using Petroleum Experts Suite of Prosper, MBAL and GAP to build production system model at early stages of the field.
- Build data base for all the producers and injectors using Field view and OFM software.
- Prepare the dynamic model input data like PVT, SCAL MDT and DST test.

- Run Sensitivity analysis and Unconstrained Case Model
- Run Subsurface Uncertainty Analysis such as Aquifer, Non Darcy Skin and Kv/Kh.
- Formation Evaluation by open and cased hole well logging, and Repeat Formation Test (RFT).
- Develop and assists in implementation of well Plan proposals
- Recommended completion type and re-completion zones and re-perforation intervals.
- Responsible for reserves and determine the well optimizations based on well performance and model prediction.
- Water injection monitoring and evaluation.
- Well test analysis / pressure transient analysis by using mathematical software.
- Planning and implementation of reservoir monitoring plans including production logging (PLT), Bottom hole pressure survey (BHP) and analysis of the obtained data.
- Evaluated residual oil saturation from SCAL studies.
- Reservoir description such as Permeability and porosity, Fault and boundary, Pressure system, Oil and water contact.
- Monitor and reviews the reservoir pressure and production performance and plan annual surveys.
- Recommend and implement ways to improve the well productivities.
- In charge of production and crude oil movement, with duties including: entitlement calculations, organizing offshore shipping and lifting programs.
- Involved as committee team member in the preparation of marine tariff agreement and crude oil lifting agreement with national oil Corporation (NOC).

Petroleum Engineer, Department of Production and Silk line Engineering, GOWFE oil Service Company (February 1994 – February 1995)

Job Profile/ Responsibilities:

I worked on a wide range of slick line applications including:

- Bottom hole pressure/temperature surveys
- Specialized fishing operations
- Swabbing
- Locating and packing off holes and leaks
- Setting and plugging of safety devices
- Artificial lift work (Gas lift valves)
- Perforation

Administrator, Petroleum Engineering Department, Tripoli University, Libya (February 1992 – January 1994)

Job Profile/ Responsibilities:

- I worked as administrator assistant in Petroleum Engineering Department in:
 - Instructor in Reservoir Rock Lab
 - Instructor in PVT Lab

Software Skills

- Proficient use of Microsoft Windows Vista/XP, Microsoft Office 2010/XP and other commercial software:

Word 










Power Point 

Excel 

- Petroleum industry related packages:

Software

Proficiency

• Geo-Quest suite of simulation	
• Petroleum Expert Suite (MBAL, Prosper and GAP)	
• Sapher software & Pan system	
• WELLFLOW	
• Field view software.	
• OFM.	
• FORGAS Software	
• Streaming Software	
• PVTi	

Courses Attended

- Certificate of Economic evaluation of international petroleum exploration and development project. (IHRDC)-Spain. 1997
- Certificate of log interpretation. (ENSPM)-Spain. 1998
- Certificate of foundation of drilling technology. (ENSPM)-Spain. 1998
- Certificate of subsurface production operations. . (ENSPM)-Spain. 1998
- Certificate of oil and gas processing facilities. (ENSPM)-Spain. 1998
- Certificate of well test and well test interpretation. . (ENSPM)-Spain. 1998
- Intensive Offshore drilling training on the platform “Gavotte”, North Sea, Spain. 1998
- Certificate of Spanish language (primary course). (ALRASID)-Libya. 1998
- Certificate of Basic well logs interpretation (OGCI)-Spain. 1999
- Certificate of Basic petroleum geology. (ENSPM)-Spain. 1999
- Offshore production training on the platform “Casablanca”, Spain. 1999
- Certificate of Basic reservoir engineering. (OGCI)-Spain. 2000
- Certificate of Auditing Principles and Environmental Management System. (Bureau Veritas)-Spain. 2000
- Certificate of Reserve Estimation. (Res Mod-Tec).-Qatar. 2004
- Certificate of Basic fire Extinguishers. (NOC)-Libya. 2005

- Certificate of Introduction Reserve estimation. Oman/ Muscat. 2006
- Certificate of well testing interpretation/ Safari software. (KAPPA – Libya). 2007
- Certificate of petroleum expert's software, GAP, Prosper and MBAL. UK. 2007
- Certificate of Carbonate Reservoir geology. British Gas. Tripoli, Libya. 2008
- Certificate of Petrel 2008 –Schlumberger. Tripoli, Libya. 2009
- Certificate of Petrel 2012 –Schlumberger. Kuala Lumpur, Malaysia, 2012
- Certificate of Reservoir Simulation with Tempest MORE- Roxar. Kuala Lumpur, Malaysia, (EMERSON Process Management). 2013
- Certificate of Uncertainty Analysis with Tempest ENABLE- Roxar. Kuala Lumpur, Malaysia, (EMERSON Process Management). 2013

Professional Publications “Journals”

1. Ganat T. A., M. Hrairi M., M. Hawlader, and O. Farj. (2015). Development of a novel method to estimate fluid flow rate in oil wells using electrical submersible pump. *Journal of Petroleum Science and Engineering*. 135 (2015) 466–475. (Q1, IF=1.416). doi:10.1016/j.petrol.2015.09.029.
2. Ganat T. A., M. Hrairi M., M. Hawlader. (2015). Reliability Analysis of Multiphase Flow Measurements from Different Oil Fields. *Oil Gas-European Magazine* (Q4, IF=0.254)
3. Ganat T. A., M. Hrairi M., M. Hawlader. (2016). Validation of ESP oil Wells Measured Parameters Using Simulation Modeling OLGA Software. *International Conference on Chemistry, Chemical & Petrochemical Engineering (ICCCPE2016)*, Kuala Lumpur, FEB 13-14, 2016.
4. Tarek Ganat, Meftah Hrairi. (2018). Effect of Flow Patterns on Multiphase Flow Measurements in Vertical Pipes. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences. SCOUPS*.
5. Tarek Ganat, Meftah Hrairi. (2018). A new choke correlation to predict flow rate of artificially flowing wells. *Journal of Petroleum Science and Engineering*. (Q1, IF=1.416).
6. Tarek Ganat, Meftah Hrairi. (2018). Gas–liquid two-phase upward flow through a vertical pipe: Influence of pressure drop on the measurement of Fluid Flow Rate. *MDPI, Energies Journal*. (Q2, IF=1.416).
7. Tarek Ganat, Meftah Hrairi, Belladonna Maulianda (2018). Analytical model for predicting frictional pressure drop in upward vertical two-phase flowing wells. *Journal of Heat and Mass Transfer*. (Q1, IF=1.416).
8. T. A. Ganat a, M. Hrairi b, M. E. Mohyaldinn. (2019). Experimental Study to Evaluate the Environmental Impacts of Disposed Produced Water on the Surrounding Ecosystems. *International Journal of Environmental Science and Technology*. (Q1), (IF=2.031).
9. Raoof Gholami, Mehdi Safari, Arshad Raza, William Samuel Downey, Mohammad Sadegh Momeni, Tarek Arbi Omar Ganat. (2019). A field scale approach to determine compaction-based permeability in unconsolidated reservoirs. *Journal of Natural Gas Science and Engineering*. (ISI, Q2).

10. T. A. Ganat, M. Hrairi & M. E. Mohyaldinn. (2019). Experimental study to evaluate the environmental impacts of disposed produced water on the surrounding ecosystems. *International Journal of Environmental Science and Technology*. (ISI. Q1).
11. Tarek Ganat, Syahrir Ridha, Meftah Hairir, Juhairi Arisa, Raoof Gholami. (2019). Experimental investigation of high-viscosity oil–water flow in vertical pipes: flow patterns and pressure gradient. *Journal of Petroleum Exploration and Production Technology* (Scopus).
12. Ahmad Zhafran Ayop, Ahmad Zafri Bahrudin, Belladonna Maulianda, Aruvir Prakasan, Shamammet Dovletov, Eziz Atdayev, Ahmad Majdi Abdul Rani, Khaled Abdalla Elraies, Tarek Al-arbi Ganat¹, Reza Barati, Sia Chee Wee. (2019). Numerical modeling on drilling fluid and cutter design effect on drilling bit cutter thermal wear and breakdown. (Scopus).
13. Tarek Ganat, Meftah Hrairi & Shiferaw Regassa. (2019). Experimental investigation of gas–oil– water phase flow in vertical pipes: influence of gas injection on the total pressure gradient. (2019). *Journal of Petroleum Exploration and Production Technology*. (Scopus).
14. N. Mohd Fauzi, N. Tarek Ganat, (2020). Agglomeration of Fines And Sand In The Separator. 20OTCA-P-1399-OTC Conference.
15. Najeebullah Lashari and Tarek Arbi Omar Ganat. (2020). Develop Optimum Gas Lift Methods to Improve Gas Lift Efficiency Using Gas Lift. *Engineering Technology international ETIC-2020 Conference*.
16. Najeebullah Lashari and Tarek Arbi Omar Ganat, (2020). Synthesized Graphene Oxide and Fumed Aerosil 380 Dispersion Stability and Characterization with Partially Hydrolyzed Polyacrylamide. *Chinese Journal of Chemical Engineering*. (ISI. Q2).
17. Abhishek Kumar, Syahrir Ridha, Tarek Ganat, Pandian Vasant and Suhaib Umer Ilyas, (2020). Machine Learning Methods for Herschel–Bulkley Fluids in Annulus: Pressure Drop Predictions and Algorithm Performance Evaluation. *Applied Science Journal*, (ISI, Q2).
18. Ato Kwamena, Berihun, Cornelius, Tarek Omar, Bennet, (2020). A perspective on the potential application of bio-inhibitors for shale stabilization during drilling and hydraulic fracturing processes. *Journal of Natural Gas Science and Engineering*, (ISI-Q1).
19. Najeebullah Lashari and Tarek Arbi Omar Ganat, (2020). Engineering application of nanoparticles in chemical enhanced oil recovery: Progress and prospective.. *Chinese Journal of Chemical Engineering*. (ISI. Q2).
20. Daniel Otchere, Tarek Ganat, (2020). 'Static Reservoir Modelling Comparing Inverse Distance Weighting to Kriging Interpolation Algorithm in Volumetric Estimation. Case Study: Gullfaks Field. Accepted to be published in ICOGET2021 conference.

21. David Kwaku Danso , Berihun Mamo Negash , Tigabwa Y. Ahmed , Nurudeen Yekeen , Tarek Arbi Omar Ganat, (2020). Recent advances in multifunctional proppant technology and increased well output with micro and nano proppants. *Journal of Petroleum Science and Engineering*, (ISI-Q1).
22. Daniel Asante Otchere, Tarek Omar Arbi Ganat, Raoof Gholami, Syahrir Ridha, (2020). Application of supervised machine learning paradigms in the prediction of petroleum reservoir properties: Comparative analysis of ANN and SVM models. *Journal of Petroleum Science and Engineering*, (ISI-Q1).
23. Althaf Shafeer, Lee Jang Hyun, Tarek Ganat, Azeb Demisi, (2020). Interpretation of Two-Phase Oil-Water Injectivity and Falloff Testing in a Vertical Injection Well Using Laplace-Transform Finite-Difference Method. *International Journal of Advanced Science and Technology*. (Scupos).
24. M.S.M. Althaf, L.J. Hyun*, T.A. Ganat and A.D. Habte, (2020). Injection period pressure transient behaviour of two phase water oil flow: A semi analytical study. *Journal Of Mechanical Engineering And Sciences (JMES)*. (Scupos).
25. Fahd Saeed Alakbari, Mysara Eissa Mohyaldinn, Ali Samer Muhsan, Nurul Hasan, and Tarek Ganat, (2020). Chemical Sand Consolidation: From Polymers to Nanoparticles. *Polymers Journal* (ISI, Q2).
26. Abhishek Kumar; Syahrir Ridha; Tarek Ganat; Pandian Vasant; Suhaib Umer Ilyas, (2020). Machine Learning Methods for Herschel–Bulkley Fluids in Annulus: Pressure Drop Predictions and Algorithm Performance Evaluation. *Journal of Applied Science*, (ISI, Q2).
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Languages

- Arabic 
- English 
- Spanish 
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Affiliations

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