

KHALIL REHMAN MEMON

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**Academic Qualification**

S#	Degree/ Certificate	Year of Passing	Division	Major Subjects	University/Institution
1.	MS By Research	Feb-2014	-	Petroleum Engineering	University TEKNOLOGI PETRONAS Malaysia
2.	PGD	2009	First	Petroleum Engineering	MUET Jamshoro Pakistan
3.	B.E	2002	First	Petroleum & Natural Gas Engg.	MUET Jamshoro Pakistan
4.	HSC	1994	First	Pre Engineering	BISE Hyderabad, Pakistan
5.	SSC	1992	First	Science	BISE Hyderabad Pakistan

Core Competencies

- Reservoir Simulation
- Reservoir Engineering
- Properties of Reservoir Engineering
- Cementing
- Cement Rheology
- Cement Compressive Strength
- Slurry Mixing

Work Experience

S#	Name of Organization	Post held	From	To	Duties
1	Mehran UET, Jamshoro, Sindh Pakistan.	Assistant Professor	19-03-2015	To-date	Teaching and Research
2		Lecturer	14-08-2009	19-03-2015	Teaching and lab Supervision
3		Lab Lecturer	28-01-2008	14-08-2004	
4		Research Assistant	14-09-2004	28-01-2008	

Technical Training

Reservoir Simulator ECLIPSE 100 and 300.
Petrel E & P software.
HPHT Viscometer (model 1100) for measuring cement rheology.
HPHT OFITE Viscometer (Model 1100) for rheology measurement.
Fann 35 Rotational Viscometer (OFITE) for measuring rheology of cement slurry.
HPHT UCA Model 2000 for measuring early age compressive Strength of cement slurry.
HPHT Filter Press (OFITE) for determining fluid loss through cement slurry.

Project Supervision Post Graduate ME.

Research Titles
Simulation Study of Cutting and Transport in Vertical Wells
Study the temperature viscosity behavior of gas condensate in critical temperature ranges of phase transfer.
Comparative study of Rheology of Heavy and Light Crude oil for Pipeline Transmissibility.
Formation Evaluation of Drill Cuttings of Conventional & Unconventional Reservoirs.
Modeling of drilling optimization rate of directional wells in Lower Indus Basin.
Evaluation of Oil Well Cement Integrity Using Different Additives.
Comparative Study & Performance Analysis of Diesel Oil Base Mud with Vegetable Oil Base Mud.

Internal Evaluator of Post Graduate Seminars (ME).

Research Titles
Forecasting production enhancement in tight gas reservoirs by horizontal wells using 3-D, 2-phase simulation model
Effects of porous media by the use of air injection to improve oil recovery from heavy oil reservoirs.
To investigate appropriate technique for formation evaluation for knowing reservoir behavior using simulation.
Oxidation Reaction Kinetics during air injection into medium oil reservoirs

Project Supervision BE (Petroleum & Natural Gas Engineering)

1.	Prediction of Sand Production and Multiple Sand Control Technique	06 Batch
2.	Innovative Water Control for Production Enhancement	06 Batch
3.	Nuclear magnetic Resonance as a Tool for Predicting Reservoir Flow and Well Stimulation Job.	07 Batch
4.	Gravel Pack Completion in Horizontal Wells	07 Batch
5.	Work Over Operation 'A Case Study'	11 Batch
6.	Analysis of Horizontal well completion for production optimization (case study)	12 Batch
7.	A case study of hydraulic fracturing and its optimization in low permeable gas reservoir.	12 Batch
8.	A simulation approach of gas lifts optimization and its comparison with other artificial lift methods.	12 Batch
9.	Diagnostic information of water producing zone by production logging tool.	12 Batch

Short Course Certificates

S#	Course Name
1	“Well Testing” conducted by Dr Obaid-ur-Rehman Paracha, Chief Reservoir Engineer, OGDCL Pakistan; organized by SPE Mehran Student Chapter at Mehran University of Engineering & Technology, Jamshoro Sindh Pakistan.
2	“Wireline Logging & Interpretation” conducted by Mr Masatoshi Nishi, Country Manager, and Schlumberger Pakistan; organized by SPE Mehran Student Chapter at Mehran University of Engineering & Technology Jamshoro Sindh Pakistan
3	“Staff Development Course” organized by Higher Education Commission Pakistan.
4	“Reservoir Simulation” conducted by Mr Hashim Abbasi, Reservoir Engineer, Senergy Ltd Aberdeen, United Kingdom; organized by SPE Mehran Student Chapter at Mehran University of Engineering & Technology, Jamshoro Sindh Pakistan.
5	Enhanced oil Recovery and natural Fractured Reservoir Conducted by Total Oil TPA Malaysia.
6.	Three day work shop on reservoir simulation conducted by Mustafa Onur at UTP Malaysia.

Professional Affiliation

- Member, Pakistan Engineering Council.
- Member, Society of Petroleum Engineers Int.

Research Interest

“Reservoir Simulation and Modeling”

Publications

S#	Author Name & title
1	Saleem Qadir Tunio Universiti Teknologi Petronas (UTP) Malaysia, Swapan Kumar Bhattacharya Universiti Teknologi Petronas (UTP) Malaysia, Khalil Rehman Memon Mehran University of Engineering & Technology Pakistan, Sonny Irawan Universiti Teknologi Petronas (UTP) Malaysia, Aung Kyaw UCSI Malaysia “Investigating Methane Adsorption Potential of Malaysian Coal for Coal Bed Methane (CBM) Study” Mediterranean Journal of Social Sciences MCSER Publishing, Rome-Italy. ISSN 2039-2117 (online) ;ISSN 2039-9340 (print) Vol 5 No 27 December 2014
2	Khalil Rehman Memon , Muhannad Talib Shuker, Saleem Qadir Tunio, Arshad Ahmed Lashari and Ghulam Abbass. Investigating Rheological Properties of High Performance Cement System for Oil Wells, Research Journal of Applied Sciences, Engineering and Technology 6(20): 3865-3870, 2013 ISSN: 2040-7459; e-ISSN: 2040-7467.
3	Muhannad Talib Shuker, Khalil Rehman Memon , Saleem Qadir Tunio and Muhammad Khan Memon, Laboratory Investigation on Performance of Cement Using Different Additives Schemes to Improve Early Age Compressive Strength, Research Journal of Applied Sciences, Engineering and Technology 7(11): 2298-2305, 2014 ISSN: 2040-7459; e-ISSN: 2040-7467
4	Khalil Rehman Memon , Muhammad Talib Shuker, Muhammad Khan Memon, Arshad Ahmed Lashari and Ghulam Abbas, Durability and Rheological Evaluation of cement Slurries from Atmospheric to High Thermal Condition, Journal of Applied Science 14(11):1204-1209, 2014 ISSN 1812-5654/DOI 10.3923/Jas.2014.1204.1209.
5	Arshad Ahmed, Muhannad Talib Shuker, Khalil Rehman Memon , Hassan Bahrami and Muhammad Khan Memon, Reducing Mechanical Formation Damage by Minimizing Interfacial Tension and Capillary Pressure in Tight Gas, 2nd International Conference on Mechanical Engineering Research (ICMER 2013) IOP Publishing IOP Conf. Series: Materials Science and

	Engineering 50 (2013) 012019 doi:10.1088/1757-899X/50/1/012019.
6	Ghulam Abbas, Sonny Irawan, Khalil Rehman Memon , S.Kumar, Ahmed A.I. Ilayah “Hydroxypropylmethylcellulose as a Primary Viscosifying Agent in Cement Slurry at High Temperature” International Journal of Automotive and Mechanical Engineering. Volume 8, July-December 2013, pp 1215-1222.
7	Ghulam Abbas, Ahmed A.I. Elrayah, Sonny Irawan, Khalil Rehman Memon, Sandeep Kumar, Characteristics of oil well Cement Slurry Using HYDROXYPROPYLEMETHYLCELLULOSE (HPMC), Journal of Applied Science 14(11): 1154-1160,2014 ,ISSN1812-5654/DOI: 10.3923/Jas.2014.1154.1160.
8	Muhammad Khan Memon, Saleem Qadir Tunio, Khalil Rehman Memon and Arshad Ahmed Lashari, A Comparative Study of Liquefied Natural Gas: An Overview; Research Journal of Applied Sciences, Engineering and Technology 7(17): 3522-3528, 2014, ISSN: 2040-7459; e-ISSN: 2040-7467.
9	Arshad Ahmed , Muhannad Talib Shuker , Khalil Rehman Memon , Hassan Bahrami and Muhammad Khan Memon: Reducing Mechanical Formation Damage by Minimizing Interfacial Tension and Capillary Pressure in Tight Gas, IOP Conf. Series: Materials Science and Engineering 50 (2013) 012019 doi:10.1088/1757-899X/50/1/012019

Paper Present in Conferences

S#	Author Name & title
1	Khalil Rehman Memon , Muhammad Talib Shuker, Muhammad Khan Memon, Arshad Ahmed Lashari and Ghulam Abbas, Durability and Rheological Evaluation of cement Slurries from Atmospheric to High Thermal Condition. IOGC Saba Malaysia.
2	Arshad Ahmed Lashari, Khalil Rehman Memon , Faisal Hussain, Hassan Bahrami, Dr Muhannad Talib Shuker, Minimizing Phase Trapping Damage Using Malaysian Diesel Oil: SPE/IADC Middle East Drilling Technology Conference & Exhibition, 7-9 October, Dubai, UAE, SPE:166805.
3	Arshad Ahmed, Muhannad Talib Shuker, Khalil Rehman Memon , Hassan Bahrami and Muhammad Khan Memon, Reducing Mechanical Formation Damage by Minimizing Interfacial Tension and Capillary Pressure in Tight Gas, 2nd International Conference on Mechanical Engineering Research (ICMER 2013).
4	Arshad Ahmed , Muhannad Talib Shuker , Khalil Rehman Memon , Hassan Bahrami and Muhammad Khan Memon: Reducing Mechanical Formation Damage by Minimizing Interfacial Tension and Capillary Pressure in Tight Gas, 2nd International Conference on Mechanical Engineering Research (ICMER 2013)
5	Ghulam Abbas, Ahmed A.I. Elrayah, Sonny Irawan, Khalil Rehman Memon , Sandeep Kumar, Characteristics of oil well Cement Slurry Using HYDROXYPROPYLEMETHYLCELLULOSE (HPMC), IOGC Saba Malaysia.
6	Ghulam Abbas, Sonny Irawan, Khalil Rehman Memon , S.Kumar, Ahmed A.I. Ilayah “Hydroxypropylmethylcellulose as a Primary Viscosifying Agent in Cement Slurry at High Temperature” presented at 2nd International Conference on Mechanical Engineering Research, Pahang, Malaysia, July 1-3 2013.
7	Ghulam Abbas, Sonny Irawan, S.Kumar, Khalil Rehman Memon Shuaib A. Kalwar “Experimental Study of Gas Migration Prevention Through Cement Slurry Using Hydroxypropylmethylcellulose”.SPE 170538, presented at IADC/SPE Asia Pacific Drilling Technology Conference, Bangkok, Thailand, August 27-27, 2014.
8.	Abdul Samad, Khalil Rehman Memon , “laboratory Investigation of Cement Permeability By Using Different Chemical Additive” Presented in 1st International Conference on Chemical Engineering and Exhibition (CCE-2015) held at MUET, Jamshoro Sindh Pakistan, January, 2016.