

## **Ehsan Esmaeilpour Motlagh C.V.**

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### **Education:**

#### **M. Sc. in Water Engineering**

**Sep 2012- Sep 2014**

Sistan & Baluchistan University, Zahedan, Iran

Thesis' title: *Investigating the optimum method of runoff collection to instantaneous precipitation in Mashhad, Case study: East Eghbal Stream*

Supervisors: Dr. Arman Hashemi Monfared and Dr. Mehdi Azhdary Moghaddam

Advisor: Eng. Hossein Ghaffarian Rouhparvar

GPA: 17.38 out of 20. Dissertation: 19.25 out of 20 with High Distinction.

#### **M. Sc. Petroleum Engineering- Drilling and Production**

**Sep 2007- Aug 2009**

Islamic Azad University of Tehran- Science & Research Branch, Iran

Dissertation's title: *Stability Analysis of Wellbore in Drilling through Chemically Active & Fractured Formations, Well No\_12 South Pars Gas Field.*

Supervisor: Dr. Babak Aminshahidy

Advisor: Prof. Mohammad Reza Jafari Nasr

GPA: 16.34 out of 20. Dissertation: 19.5 out of 20 with High Distinction.

#### **B. Sc. in Mining Engineering-Drilling and Extraction of Mines**

**Sep 2000- Sep 2005**

Islamic Azad University of Ghaemshahr, Iran

Dissertation's title: *Investigating support system design for rock tunnels with a case study Stability analysis of critical sections and designing support system for Northern Taloun tunnel located at the Tehran-North Freeway*

Supervisor: Eng. Mohammad Reza Rahimi

Advisor: Dr. Hadi Hamidian

GPA: 15.07 out of 20. Dissertation: 18.5 out of 20 with High Distinction.

### **Teaching Experiences:**

**Teaching at Eghbale Lahoory University, Mashhad, Iran,**

**Sep 2017-Present**

Teaches undergraduate courses such as:

- *Introduction to Drilling Engineering*
- *General Geology*
- *Structural Geology*
- *Petroleum Geology*
- *Production Engineering-1*
- *Special Discussion in petroleum Engineering*
- *Petro-physic Laboratory*

### **Professional Work Experiences:**

**Mine Technical Officer& HSE Supervisor**

**Sep 2012 - Mar 2016**

Kimia Sang Damnjan Neishabour Co.

**Mine Extraction Technical & HSE Supervisor**

**Mar 2013 - Mar 2015**

Bildar Quartzite Mine-Torghabeh  
Sabz Kan Pow Co.

**Mine Extraction Technical & HSE Supervisor**

**May 2017 - Dec2017**

Shabnaz Marble Mine, Chenarak, Rezavieh, Khorasan  
East Mines Investment and Development Company (EMIDCO)

**Mine Extraction Technical & HSE Supervisor**

**Jan 2018 - Present**

Mes Feiz Kimia Bardeskan Copper Mine

- Supervise, co-ordinate and schedule the activities of workers who extract minerals and ore; heavy equipment operators, drillers, blasters and other workers in surface mining and quarrying
- Establish methods to meet work schedules and confer with managerial and technical personnel, other departments and contractors to resolve problems and co-ordinate activities
- Oversee the safety of the mining or quarrying operations
- Resolve work problems and recommend measures to improve productivity
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hiring and promotions
- Prepare production and other reports.

**Professional Skills and Trainings:**

- Arc GIS and SPSS, college of Ferdowsi university-Mashhad, Iran
- Rock Mechanics Softwares such as: FLAC, UDEC
- Drilling Office, *Schlumberger, OEOC In partnership with magma energy group*, Tehran, Iran
- ISO/TS 29001:2007 course in oil & gas projects, *T.Ü.V of Germany*, Tehran representative office
- HSE international course, Labor Office Research Center of Mashhad In partnership with IME

**Professional Memberships:**

Member of the Iranian Mining Engineering Organization

**2005- present**

Member of the Iranian Society of Rock Mechanics (IRSRM)

**2014- present**

Member of the Iranian Reservoir Petroleum Geomechanics Association (IRPGA)

**2014- present**

**Research Interests:**

- Oil & Gas wellbore stability
- Directional Drilling & multilateral wells
- Modern intelligent drilling networks for enhanced oil recovery (EOR)
- Water Resource Management with BMP & AHP Methods

**PUBLISHED BOOKS:**

- 1) Jami Khorasani, A., Esmailpour Motlagh, E. (2017). *Laboratory of Physical Geology*. Ghaen: Akbarzadeh. (in Persian Language)
- 2) Esmailpour Motlagh, E., Etemadifar, M. (2017). *Physical Geology*. Ghaen: Akbarzadeh. (in Persian Language)

**JOURNAL PAPERS:**

- 1) Majid Sajjadian, Ehsan Esmailpor Motlagh, Ali Akbar Daya, (2016) Experimental Study of Engineered Cement Plug to Effectively Cure Losses While Drilling in Iranian Oil/Gas Well. *International Journal of Geosciences*, 7, 115-119. doi: [10.4236/ijg.2016.72009](https://doi.org/10.4236/ijg.2016.72009).

- 2) Majid Sajjadian, Ehsan Esmailpour Motlagh, Ali Akbar Daya, Laboratory Investigation to Use Lost Circulation Material in Water Base Drilling Fluid as Lost Circulation Pills *International Journal of Mining Science* 2016, 2(1): 33-38.
- 3) Majid Sajjadian, Ehsan Esmailpour Motlagh, Mohammad Ashrafi, Experimental investigation of new additive to optimize the properties of synthetic-based drilling fluid, *International Journal of Development Research*, Vol.6, Issue07, 2016.
- 4) Majid Sajjadian, Ehsan Esmailpour Motlagh, Ali Akbar Daya, Experimental Investigation of Formulation and Field Performance of Formate Based Drilling Fluid System for Vertical Well Drilling, *International Journal of Mining Science*, 2016, 2(2): 20-25.

## CONFERENCE PAPERS:

- 1) Ehsan Esmailpour Motlagh, Aliasghar Moridi Farimani, Babak Aminshahidy, Stability analysis and tension check in borehole with Presentation of Elastoplastic fracture model for stability, First National Conference on Hydrocarbon Reservoir, Tehran, Iran, 15th June 2012
- 2) Majid Sajjadian, Ehsan Esmailpour Motlagh, Laboratory evaluation of new chemicals to increase the water-based fluidity in wellbore stability improvement, First National Conference on Hydrocarbon Reservoir, Tehran, Iran, 15th June 2012
- 3) Majid Sajjadian, Mohammad Soleimani, Ehsan Esmailpour Motlagh, Laboratory study of the effects of carbon nanotubes on improving the properties of water-based drilling fluids, First National Nanomaterials and Nanotechnology, Shahroud, Iran, 1-2th March 2012
- 4) Majid Sajjadian, Mohammad Soleimani, Alireza Nasiri, Ehsan Esmailpour Motlagh, Improvement the performance of water-based drilling fluid properties using non modified silica nanoparticles-Laboratory investigation, First National Nanomaterials and Nanotechnology, Shahroud, Iran, 1-2th March 2012
- 5) Majid Sajjadian, Mohammad Soleimani, Ehsan Esmailpour Motlagh, Design of Water-based Drilling Fluids for Obtaining High-Quality Fluid properties during the drilling operation, 3rd Iranian Petroleum Engineering Congress, Tehran, Iran, 18-19th October 2011
- 6) Majid Sajjadian, Ehsan Esmailpour Motlagh, Habibeh Sheikh Rostamabadi, Mohammad Soleimani, Determination of model for estimation of stability in horizontal and vertical wells, 3rd Iranian Petroleum Engineering Congress, Tehran, Iran, 18-19th October 2011
- 7) Mostafa Mokhtari Sangedehi, Ehsan Esmailpour Motlagh, Babak Aminshahidy, Permeability prediction of porosity, specific surface and saturated water saturation by using artificial neural networks, The First National Conference for Technology Development in Oil, Gas, petrochemical Industries, Ahwaz, Iran, 19-20th May 2011
- 8) Ehsan Esmailpour Motlagh, Aliasghar Moridi Farimani, Babak Aminshahidy, Surveying of application significance and day to day development of FMI logs in petroleum industry Case study: South Pars gas field, well No 12, The First National Conference for Technology Development in Oil, Gas, petrochemical Industries, Ahwaz, Iran, 19-20th May 2011
- 9) Ehsan Esmailpour Motlagh, Babak Aminshahidy, Majid Sajjadian, Well bore stability analysis and offer optimum mud weight window in drilling through fractured formations, case study: Well bore No12 South Pars gas field, The First National Conference for Technology Development in Oil, Gas, petrochemical Industries, Ahwaz, Iran, 19-20th May 2011
- 10) Majid Sajjadian, Alireza Khoshnyat, Mina Shahmoradi, Ehsan Esmailpour Motlagh, Evaluation of optimal way to improve oil recovery in One of Iranian Reservoirs, The First National Conference for Technology Development in Oil, Gas, petrochemical Industries, Ahwaz, Iran, May 2011
- 11) Majid Sajjadian, Mohammad Soleimani, Ehsan Esmailpour Motlagh, Improve the properties of drilling fluid using nanotechnology, The First National Conference for Technology Development in Oil, Gas, petrochemical Industries, Ahwaz, Iran, 19-20th May 2011

- 12) Amir Soorani, Ehsan Esmailpor Motlagh, Babak Aminshahidy, Investigation and feasibility study of UBD technology application in Gachsaran oil field due to lost circulation, First NEPC, Ahwaz, Iran, 15-16th April, 2009
- 13) Ehsan Esmailpor Motlagh, Babak Aminshahidy, Mohammad Ebrahim Esmaeilpour, Investigating the behavior of shale formations against drilling fluids and providing solutions for its stabilization, 12th Iranian Fluid Dynamics Conference, Babul, Iran, 26-28th May, 2009
- 14) Mohammadreza Rahimi, Hadi Hamidian, Ehsan Esmaeilpour Motlagh, Stability analysis of critical sections and designing support system for the northern Taloun tunnel located at the Tehran-Shomal Freeway, 7th Iranian Tunnel Conference, Sharif Industrial University, Faculty of Civil Engineering, Tehran, Iran, 10-12th July, 2006
- 15) Hadi Hamidian, Mohammadhossein Rahimaei, Ehsan Esmaeilpour Motlagh, Calculation of cost in underground mines by Oahara-Sabolsky method and its optimization for mines in Iran, Second Regional Conference on Mining Engineering, Islamic Azad University of Savadkouh, Iran, 4-5th March, 2007
- 16) Gholamreza Azizian, Nasrollah Ashrafi, Ehsan Esmaeilpour Motlagh, Hydraulic studies and flow simulation in Tajan River-The construction of Mazandaran Holy Defense Museum district, 7th National Civil Engineering Congress, Sistan & Baluchistan University, Zahedan, Iran, 7-8th May, 2013
- 17) Gholamhossein Akbari, Ehsan Esmaeilpour Motlagh, Mohammadhassan Sarvi, Calculating the equilibrium width of river and determining the direction of organizing Tajan river - The construction of Mazandaran Holy Defense Museum park, 7th National Civil Engineering Congress, Sistan & Baluchistan University, Zahedan, Iran, 7-8th May, 2013
- 18) Gholamhossein Akbari, Ehsan Esmaeilpour Motlagh, Babak Haghdoust, Simulation of flood flow using numerical models of kinematic wave and diffusion, 7th National Civil Engineering Congress, Sistan & Baluchistan University, Zahedan, Iran, 7-8th May, 2013
- 19) Gholamhossein Akbari, Ehsan Esmaeilpour Motlagh, Mohammadhassan Sarvi, Drought phenomenon and its various indicators in Moghan Khorasan Razavi Basin with DIP software, 7th National Civil Engineering Congress, Sistan & Baluchistan University, Zahedan, Iran, 7-8th May, 2013
- 20) Pourya Mirzazadeh, Ehsan Esmaeilpour Motlagh, Mehdi Azhdari Moghaddam, Investigation of longitudinal overflow optimization and its performance in flood relief, 12th National Conference on Irrigation and Evaporation Reduction, Shahid Bahonar University, Kerman, Iran, 27-28th Aug, 2013
- 21) Gholamhossein Akbari, Ehsan Esmaeilpour Motlagh, Pourya Mirzazadeh, Case Study Optimization of Muskingum Model Parameters Based on Error Analysis, 12th National Conference on Irrigation and Evaporation Reduction, Shahid Bahonar University, Kerman, Iran, 27-28th Aug, 2013
- 22) Gholamhossein Akbari, Ehsan Esmaeilpour Motlagh, Mohammadhassan Sarvi, Study of Drought and SPI- CZI- ZSI Indicators in Moghan Khorasan Razavi Area with DIP (Drought Indices Package) Software, 12th National Conference on Irrigation and Evaporation Reduction, Shahid Bahonar University, Kerman, Iran, 27-28th Aug, 2013
- 23) Ehsan Esmaeilpour Motlagh, Hossein Ghaffarian Rouhparvar, Mehdi Azhdari Moghaddam, Arman Hashemi Monfared, Investigating the Effects of Changes in the Flood Morphology on Urban Flood, Second National Conference on Urban Flood Management and Engineering, Olympic Hotel, Tehran, 30th Sep, 2014
- 24) Hossein Ghaffarian Rouhparvar, Arman Hashemi Monfared, Ehsan Esmaeilpour Motlagh, Mahmoud Faghfour Maghrebi, Sustainable Water Resources Development and Management in Surface Water Collection Management in Metropolitan Basin, Second National Conference on Urban Flood Management and Engineering, Olympic Hotel, Tehran, 30th Sep, 2014
- 25) Pezhman Derakhshan Alamdarloo, Ehsan Esmaeilpour Motlagh, Amirhossein Habashizadeh, Sensitivity Analysis of Dynamic Wave Modeling Parameters in Flood Wave Simulation - Case Study of Sarbaz River, 16th Iranian Hydraulic Conference, University of Mohaghegh Ardabili, Ardabil, Iran, 6-7th Sep 2017