

Mr. Muhammad Awais Research Publications

Research Publications (Impact factor: 7.545/2019; Citations: 17/2019)

Research Papers

Published

1. Bilal Wadood, Muhammad Awais, Muhammad Bilal, Muhammad Ishaq, Laeq Ahmad and Zeeshan Zafar, 2019. Reservoir Characterization and Modelling with Diagenetic Trends of carbonates of the Kawagarh Formation: A Section exposed in the Kala-Chitta Range, Pakistan. International Journal of Economic and Environmental Geology, Vol. 10(2), 105-111 (HEC recognized category Y journal).
2. Muhammad Awais, Farhad Ullah, Nasar Khan, Mukhtiar Ghani, Syed Mamoon Siyar, Bilal Wadood, Aizaz Mukhtiar (2019) Investigation of reservoir characteristics, depositional setting and T-R sequences of the Lockhart Limestone of Meyal Oil Field, Pakistan: a petrophysical approach. Journal of Petroleum Exploration and Production Technology. DOI: 10.1007/s13202-019-0730-x.
3. Bilal Wadood, Muhammad Awais, Suleman Khan, Sajjad Ahmad, Laeq Ahmad, Muhammad Muslim (2019) Diagenetic studies of the Cretaceous Turbidities, Sulaiman Range, Pakistan: Implications for Reservoir Quality. Journal of Himalayan Earth Sciences, Vol. 52 (1), 106-119 (HEC recognized category 'X' journal).
4. Nasar Khan, Naveed Anjum, Mansoor Ahmad, Muhammad Awais, Naqib Ullah, 2018. Hydrocarbon source rock potential evaluation of the Late Paleocene Patala Formation, Salt Range, Pakistan: Organic geochemical and palynofacies approach. Journal of Earth System Science, 127: 98 (IF: 1.104/2019). Doi: 10.1007/s12040-018-0998-0.
5. Siyar, S.M., Awais, M., Zafar, M., Waqas, M., Faisal, S., 2018. Reservoir characterization of Paleocene Clastics and Carbonates in Chanda-01 well, Kohat Basin, Khyber Pakhtunkhwa, Pakistan: A Petrophysical Approach. The Nucleus, 55(1):27-32 (HEC recognized category 'Y' journal).
6. Ishaq, M., Jan, I.U., Hanif, M., Awais, M., 2019. Microfacies and diagenetic studies of the Sakesar Limestone, Potwar Plateau, Pakistan: approach of reservoir evaluation using outcrop analogue. Carbonates and Evaporites, 34(3), 623-656. DOI: 10.1007/s13146-018-0430-5 (Impact Factor (IF): 0.881/2019).
7. Mohibullah Khan, Mumtaz Ali Khan, Birkhez Aslam Shami, Muhammad Awais., 2018. Microfacies analysis and diagenetic fabric of the Lockhart Limestone exposed near Taxila, Margalla Hill Range, Punjab, Pakistan. Arabian Journal of Geosciences, 11(2). DOI: 10.1007/s12517-017-3367-4 (IF: 1.141/2019).
8. Awais, M., Hanif, M., Khan, M. Y., Jan, I. U., Ishaq, M., 2019. Relating petrophysical parameters to petrographic interpretations in carbonates of the Chorgali Formation, Potwar Plateau, Pakistan. Carbonates and Evaporites, 34(3), 581-595. DOI: 10.1007/s13146-017-0414-x (IF: 0.881/2019).
9. Ma, P., Lin, C., Zhang, S., Dong, C., Zhao, Y., Dong, D., Shehzad, K., Awais, M., Guo, D., Mu, X., 2018. Diagenetic history and reservoir quality of tight sandstones: A case study from Shiqianfeng sandstones in upper Permian of Dongpu Depression, Bohai Bay Basin, eastern China. Marine and Petroleum Geology. 89:280-299. DOI: 10.1016/j.marpetgeo.2017.09.029 (IF: 3.538/2019).
10. Siyar, S.M., Waqas, M., Mehmood, S., Jan, A., Awais, M., Islam, F. U., 2017. Petrophysical Characteristics of Lower Goru Formation (Cretaceous) in Sawan Gas Field, Central Indus Basin, Pakistan. Journal of Biodiversity and Environmental Sciences. Vol. 10 (5), p. 260-266.
11. Zia, A., Awais, M., Ishaq, M., Hamid, S., Akhtar, N., Sheikh, L., 2016. Application of

Well Log Analysis to Assess the Petrophysical Parameters of the Early Eocene Sui Main Limestone (SML) in Kharnhak-1 Well, Middle Indus Basin, Pakistan. Iranian Journal of Oil & Gas Science and Technology, Vol. 5 (2), p. 01-20 (indexed by ISC).

12. Awais, M., Ishaq, M., and Akhtar, N., 2012-2013. Geological Mapping and Structural Analysis of a Part of Kala-Chitta Range, Kahi Village, Nizampur Khyber Pakhtunkhwa, Pakistan Journal of Hydrocarbon Research, Vol. 22 and 23, p. 13-23 (HEC recognized category Y journal).

Accepted

1. Awais, M., Hanif, M., Ishaq, M., and Irfan, U. J. An integrated approach to evaluate dolomite in the Eocene Chorgali Formation, Khair-e-Murat Range, Pakistan: Implications for Reservoir Geology. Journal of Himalayan Earth Sciences.

Under Review

1. M. Younis Khan, Irfan U. Jan, Muhammad Awais, Muhammad Hanif, Farrukh Hussain. Pore pressure prediction in a carbonate reservoir: A case of Potwar Plateau, Pakistan. Journal of Himalayan Earth Sciences (HEC recognized category 'X' journal).
2. Muhammad Awais, Bilal Wadood, Muhammad Ishaq, Laeq Ahmad, Muhammad Bilal, Zeeshan Zafar, Nasar Khan, Aminullah Khan. Depositional fabric and bio-sequence stratigraphic framework of the Late Cretaceous Kawagarh Formation, Kala-Chitta Range, Pakistan: Lateral Equivalent of the Gurpi Formation of Iran. Carbonates and Evaporites (IF = 0.947/2018).
3. Awais, M., Hanif, M., Irfan, U. J., Ishaq, M., and Khan, M. Y. Eocene Carbonate Microfacies Distribution of the Chorgali Formation, Gali Jagir, Khair-e-Murat Range, Potwar Plateau-Pakistan: Approach of Reservoir Potential using Outcrop Analogue. Arabian Journal of Geosciences.
4. Nasar Khan, Imran Ahmad, Muhammad Ishaq, Irfan U. Jan, Wasim Khan, Muhammad Awais, 2018. Reservoir potential evaluation of the Middle Paleocene Lockhart Limestone of the Kohat Sub-basin, Pakistan: Petrophysical Analyses. International Journal of Economic and Environmental Geology (HEC recognized category Y journal).

Submitted

1. Sayed Ali Shah, Muhammad Rustam Khan, Azeem Khan, Muhammad Awais. Geological model deduced from gravity data of northwestern Potwar Sub-basin, Pakistan. Acta Geologica Sinica (English Edition) (IF: 2.506/2019).

Short Communication

1. Awais, M., Ishaq, M., Akhtar, N., Haroon, M., Khan, S., 2016. Mesoscopic structures can give insights to the regional ones – An example of Pumpelly's rule from a part of Kala-Chitta Range near Kahi village, Nizampur, Khyber Pakhtunkhwa, Pakistan: An insight into Economic Geology. International Journal of Economic and Environmental Geology, 7(2), 80-84 (HEC recognized category Y journal).

Newspaper Articles

1. Muhammad Awais. Overview on earth and role of Geologist for the service of mankind. Technology Times, 31 May, 2017.
2. Muhammad Awais. A tenuous link. The NEWS International. 24 April, 2017.
3. Muhammad Awais, Relation of Geology and Social Media: A short review. Daily Pakhtunkhwa Bulletin, 02 March, 2017, p. 6.

Conference Proceedings & Abstracts

1. Bilal Wadood, Muhammad Awais, Mansoor Aziz, Junaid Ali, Ahmad Khan, Muhammad Shafique, Mohib Ullah, 2018. Microfacies Analysis and Reservoir Characterization & Modelling with Diagenetic Trends of the carbonates of the Samana Suk Formation: A Section exposed in the Nammal Gorge, Salt Range, Pakistan. Annual Technical Conference (ATC)-2018, Islamabad, Pakistan.
2. Muhammad Awais, Muhammad Hanif, Muhammad Aamir, Laeq Ahmad, Nasar Khan, Bilal Wadood, Shuja Ullah, Naseer Ahmad, Tariq Aziz. Depositional and diagenetic studies of the Patala Formation Carbonates exposed in Pir Sohawa Section, Hazara Basin, Pakistan: Implications for reservoir characterization. 5th international conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar (poster presentation). P # 85.
3. Muhammad Awais; Bilal Wadood; Muhammad Ishaq; Laeq Ahmad; Muhammad Bilal; Zeeshan Zafar; Amin Ullah Khan and Nasar Khan, 2018. Diagenetic Studies and Reservoir Potential of the Cretaceous Kawagarh Formation, Kala-Chitta Range, Pakistan. 5th international conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar (poster presentation). P # 87.
4. Mohibullah Khan, Mumtaz Ali Khan, Barkhaiz Aslam Shami, Muhammad Awais, 2018. Microfacies analysis and diagenetic fabric of the Lockhart Limestone exposed near Taxila, Margalla Hill Range, Punjab, Pakistan. 5th international conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar (poster presentation). P # 76.
5. Bilal Wadood, Muhammad Awais, Muhammad Bilal, Zeeshan Zafar, Laeq Ahmad, Aminullah Khan, 2018. Integrated sequence stratigraphic interpretation of the Late Cretaceous Kawagarh Formation, Gandab Section, Kala-Chitta Range, Pakistan. 5th International conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar (poster presentation). P # 45.
6. Lawangin Sheikh; Wasiq Lutfi; Zhidan Zhao; Muhammad Awais; Laeq Ahmad and Qingshan Shi, 2018. Petrochemical and Geochronological Study of the Rocks of Indus Suture Zone and Kamila Amphibolites, Swat, KP, Pakistan. 5th international conference Earth Science Pakistan 2018, Baragali Summer Campus, University of Peshawar. P # 110.
7. Muhammad Aslam Khan; Laeq Ahmad; Muhammad Noor Taj Khan; Muhammad Awais; Bilal Wadood and Muhammad Ishaq, 2018. Reliability of physico-mechanical properties on the petrographic characteristics of the Ambar Formation, Peshawar Basin, Pakistan. 5th international conference Earth Sciences Pakistan 2018, Baragali Summer Campus, University of Peshawar. P # 129.
8. Bilal Wadood, Muhammad Awais, Laeq Ahmad, Lawangin Sheikh, 2018. Hydrocarbons prospects in the Kohat-Potwar Sub-Basins: An overview of Petroleum Play. 1st International Conference on Advances in Engineering and Technology / Book of Abstracts. Geological Engineering and Geosciences / 25.
9. Bilal Wadood, Suleman Khan, Sajjad Ahmad, Muhammad Awais, 2018. Planktonic Foraminiferal Biostratigraphy of the Maastrichtian strata, Lower Indus Basin, Pakistan. 1st International Conference on Advances in Engineering and Technology / Book of Abstracts. Geological Engineering and Geosciences / 63.
10. Muhammad Awais, Nasar Khan. Health and safety environment (HSE) cognizance and acquiescence during geological fieldwork. International Conference on Mining and Fuel Industries (CMFI-2017). 19-21 October, 2017, Sheikh Zayed Islamic Research Centre, Karachi, Pakistan.

11. Nasar Khan, Muhammad Awais, Salman Ahmed Khattak, Imran Ud Din, Naveed Anjum, Mansoor Ahmad. Organic geochemical and palynofacies analyses for petroleum source rock potential evaluation of the Paleocene Patala Formation, western Salt Range, Pakistan. International Conference on Mining and Fuel Industries (CMFI-2017). 19-21 October, 2017, Sheikh Zayed Islamic Research Centre, Karachi, Pakistan.
12. Nasar Khan, Muhammad Awais, Jehanzeb Khan, Asad Muhammad, Ejaz Ahmad Siddique, Jawad Khan, Muhammad Arif, Gohar Ali Bacha. Geological and geotechnical evaluation of weir site of the Koto Hydropower Plant, Dir Lower, Khyber Pakhtunkhwa, Pakistan. International Conference on Mining and Fuel Industries (CMFI-2017). 19-21 October, 2017, Sheikh Zayed Islamic Research Centre, Karachi, Pakistan.
13. Awais, M., Haroon, M., Ishaq, M., 2017. Engineering Geological mapping of Anbar village, Peshawar Basin, Khyber Pakhtunkhwa, Pakistan: Repercussions for Economic Geology. Abstract volume of Sixth International Hindu Kush Geoscience Conference-2017, Kabul Polytechnic University, Afghanistan, p .9
14. Awais, M., Ahmad, L., Khan, N., 2017. Limestone in Stratigraphy of Pakistan: Implications for Economic Geology. First International Conference on Emerging Trends in Earth and Environmental Sciences, 9-10 March, 2017, College of Earth and Environmental Sciences, University of the Punjab, Pakistan.
15. Awais, M., Jehan, N., Ahmad, L., Sheikh, L., 2016. Dolomite in stratigraphy of Pakistan and its economic significances: A Review. 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016 (poster presentation).
16. Khan, A., Awais, M., Hussain, Z., 2016. Geophysical Prospecting for Sulphide minerals in Barit-Danyore Nala, Gilgit Baltistan, Pakistan. 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016.
17. Ahmad, L., Jehan, N., Awais, M., 2016. Geological mapping of the Siwalik rocks in the vicinity of Zarkai and Takhti Nasrati Area, District Karak, Surghar-Shinghar Range, Khyber Pakhtunkhwa, Pakistan. 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016.
18. Ahmad, L., Khan, S. D., Shah, M. T., Jehan, N., Awais, M., Sheikh, L., 2016. Application of Ore Microscopy, SEM-EDX and QEMSCAN techniques for study of gold and base metals of Ladakh Island Arc, Gilgit-Baltistan, Pakistan. 2nd International Conference on Sustainable Utilization of Natural Resources, 3rd October, 2016.
19. Awais, M., Hanif, M., Khan, M. Y., Ishaq, M., Jan, I. U., and Swati, M. A. F., 2016. Lithological studies and petroleum system potential of the Eocene Chorgali Formation using outcrop data and geophysical logs, Potwar Plateau, Pakistan. International Conference on Earth Sciences Pakistan 2016 (oral presentation).
20. Awais, M., Hanif, M., Ishaq, M. A Quick Outcrop-scale Field and Laboratory Staining technique for the Differentiation of Calcite and Dolomite in the Eocene Chorgali Formation: An implication for reservoir characterization. Innovation and Sustainability 27th National and 15th International Chemistry Conference, Department of Chemistry, University of Malakand. August 22-25, 2016 (poster presentation).
21. Sheikh, L., Awais, M., Aamir, M., 2016. Sedimentary geology of the Ordovician Misri Banda Quartzite exposed in the Ambar Village, Peshawar Basin, Khyber Pakhtunkhwa, Pakistan. International Conference on Earth Sciences Pakistan 2016 (oral presentation).
22. Ishaq, M., Jan, I. U., Hanif, M., Awais, M., Hussain, H. S., Ahmad, I., Akhtar, N., 2016. The microfacies analysis and impact of diagenesis on reservoir quality of the Sakesar Limestone, Nilawahan Gorge, Central Salt Range, Pakistan. International Conference on Earth Sciences Pakistan 2016 (poster presentation).

23. Malik, F., Khan, S., Hanif, M., Awais, M. Microfacies Analysis of undifferentiated Jurassic rocks of Kala-Chitta Range, Nizampur area, Khyber Pakhtunkhwa, Pakistan. International Conference on Earth Sciences Pakistan 2016 (poster presentation).
24. Awais, M., Jehan, N., Sheikh, L., Ahmad, L., Ullah, F., and Aamir, M., 2016. Urbanization and water challenges – No life without water. International Conference on Earth Sciences Pakistan 2016.
25. Awais, M., Jehan, N., Sheikh, L., Ahmad, L., Aamir, M., Ullah, F. Climatic changes and its effect on freshwater resources and human health. International Conference on Earth Sciences Pakistan 2016 (poster presentation).
26. Ahmad, L., Ahmad, I., Khan, N., Jehan, N., Awais M., Sheikh, L. Fracture analysis of Siwalik rocks in the vicinity of Zarkai and Takhti Nasrati area, District Karak, Surghar-Shinghar Range, Khyber Pakhtunkhwa, Pakistan. International Conference on Earth Sciences Pakistan 2016.
27. Ahmad, L., Shah, M. T., Khan, S. D., Jehan, N., Sheikh, L., Awais, M. Petrochemical investigation of the rocks of Bubin (Astor) and surrounding areas, Gilgit-Baltistan, Pakistan. International Conference on Earth Sciences Pakistan 2016 (oral presentation).
28. Khalil, Y. S., and Awais, M, 2016. Geological Field Guide through the Western China Pakistan Economic Corridor: Potential Sites of Geological Heritage. 3rd International Multidisciplinary Research Conference, Sarhad University of Science and Information Technology, Peshawar, Pakistan (oral presentation).
29. Awais, M., Hanif, M., Jan, I. U., Ishaq, M., Khan, M. Y., 2016. Diagenesis and its effect on the reservoir quality of the Eocene Chorgali Formation, Gali Jagir, Khair-e-Murat Range, Potwar Plateau-Pakistan. The 8th International Siberian Early Career Geoscientists Conference, Novosibirsk, Russia.
30. Awais, M., Khan, M. Y., Hanif, M., Jan, I. U., and Ishaq, M., 2016. Petrophysical evaluation of the Eocene Chorgali Formation, Meyal Oil Field, Potwar Plateau, Pakistan. GeoConvention 2016.
31. Awais, M., Hanif, M., Jan, I. U., and Ishaq, M., 2015. An integrated approach to evaluate the porosity/permeability of the Eocene Chorgali Formation, Khair-e-Murat Range, Pakistan. Proceedings of Fifth International Hindu Kush Geoscience Conference-2015, Afghanistan (oral-webcast presentation).
32. Awais, M., Hanif, M., Jan, I. U., and Ishaq, M., 2014. Microfacies Analysis and Reservoir Potential of the Eocene Chorgali Formation, Chorgali Pass Section, Gali Jagir, Punjab, Pakistan. Earth Sciences Pakistan, Baragali Summer Campus, University of Peshawar, Journal of Himalayan Earth Sciences, p. 22 (poster presentation).
33. Awais, M., 2014. Kala-Chitta Range: A highly deformed fold and thrust belt of Hill Ranges, NW Himalayan Fold and Thrust Belt, Pakistan. GeoConvention 2014.