

- Assisted exploration projects (e.g., joint studies between CNOOC, China and JAPEX, Japan)

Areas of Expertise

A. Operation Geology

Supervising as wellsite geologist of geological work during drilling such as mud logging, wireline logging, and coring etc

B. Petroleum Geology

Evaluation of petroleum systems of basins, and estimation of reserves and risks of prospects

C. Seismic Interpretation

Interpretation of potential prospects and leads with seismic and well data

D. Petrophysics

Interpretation of wireline logging data for identifying oil and gas intervals

Summary of Work

- 2018-Present** **E&P Technology Center, Korea National Oil Corporation**
- Integrated sequence stratigraphy analysis of the Ulleung Basin, Korea
 - Petroleum systems modeling of the offshore Korea (JDZ, Ulleung Basin)
- 2016** **Joint study of Woodside Energy-KNOC consortium**
- Research on regional study of deep water setting in the Ulleung Basin
 - Study on depositional environments and play fairway of the Ulleung Basin
- 2013-2018** **Domestic Exploration Team, Korea National Oil Corporation**
Global Technical Research Center (GTRC), Korea National Oil Corporation
- Technical evaluation of blocks for exploring hydrocarbons in the Ulleung Basin
 - Assessments of drillable prospects in the blocks Southern and Central VI-1
 - Operation geology of the block Central VI-1 (6-1C), 2015-2017
 - Production well Donghae 2-1P drilling
 - Operation geology of the block Southern VI-1 (6-1S), 2014
 - Exploration & Appraisal well Gorae D-1 drilling
 - Technical evaluation of blocks for exploring potentials in the blocks (GTRC), 2013
- 2012-2013** **Domestic Exploration Team, Korea National Oil Corporation**
- Technical evaluation of blocks for exploring hydrocarbons in the offshore Korea
 - Blocks I, II, and III, Yellow Sea Basin, offshore Korea
 - R&D projects on Kunsan Basin, (in the Yellow Sea Basin, offshore Korea)
 - Stratigraphic study on Kunsan Basin
 - Technical evaluation of blocks for exploring hydrocarbons in the Ulleung Basin
- 2011-2012** **Domestic Exploration Team, Korea National Oil Corporation**
- Technical evaluation of blocks for exploring hydrocarbons in the Jeju Basin

- Blocks IV,V, and VI-2, (Jeju Basin, offshore Korea)

Publication

Paper

- 2015** Roh, Y., Kang, S., **Park, B.**, and Kim, Y., 2015, Microbially Induced Precipitation of Gold(0) Nanoparticles: Journal of Nanoscience and Nanotechnology, v. 15, p. 408-411
- 2013** **Park, B.**, Kang, S., Moon, W., and Roh, Y., 2013, Microbially Induced Synthesis of Cubic and Hexagonal Selenium Nanoparticles: Journal of Nanoscience and Nanotechnology, v. 13, p. 1854-7.

Abstract

- 2019** Koo, W., Jang, H., **Park, B.**, Yi, S., and Yoo, S., 2020, Hydrocarbon plays and potentials of the Ulleung Basin, offshore Korea (under preparation).
- 2014** Hu, S., Lee, Y., C., Han, S., O, H., **Park, B.**, and Choi, B., 2014, Back-arc opening based on a rifting model for the Ulleung Basin, offshore Korea, AAPG International Convention and Exhibition.
- 2009** **Park, B.**, Kim, Y., Baik, M., Lee, S., and Roh, Y., 2008, Geomicrobial reduction of Auric ion by metal-reducing bacteria in the tidal and groundwater environments in Korea : Geological Society of Korea, v. 2008, p. 5-5 (in Korean)
- 2009** Roh, Y., Moon, J., Kim, Y., Jung, M., **Park, B.**, and Lee, Y., 2009, Biomineralization: Nanoparticle Synthesis and Its Geochemical Implication: The Petrological Society of Korea, v. 2009, p. 6-8 (in Korean)
- 2008** Oh, J., **Park, B.**, Baik, M., Lee, S., and Roh, Y., 2008, Geomicrobiological reduction in the KURT ground water: Geomicrobial diversity and biomineralization of Fe(III), Mn(III/IV), Cr(VI), and Se(VI): Geological Society of Korea, v. 2008, p. 5-5 (in Korean)
- 2008** **Park, B.**, Moon, W., Lee, S., Baik, M., Park, B, Kim, H., Oh, J., and Roh, Y., 2008, Analysis on Electron microscopy of geomicrobial reductiona of selenite and selenate: Geological Society of Korea, v. 2008, p. 5-5 (in Korean)

Scholarships

- 2010-2011** Korea National Oil Corporation Internship
- 2010** Petroleum academy, in Seoul National University, (funded by Ministry of Trade, Industry and Energy)

Selected Training

- 2019** Play and prospect assessment, Energy & Mineral Resources Development Association of Korea)

2014	Wellsite geology, Daewoo/KNOC
2013	Clastic depositional system, KNOC
2012	Seismic Quantative Interpretation, Woodside
2012	Wellsite geology, Woodside/KNOC

Software Skill

A. Seismic interpretation software : Petrel (Intermediate)

I have used seismic interpretation software such as Petrel and Kingdom since 2011. I can operate both but I am more familiar with Petrel system for seismic interpretation without major assistance and manuals from producers.

B. Well logs interpretation software : Geolog, Techlog, and PowerLog (Intermediate)

I can use Geolog and Techlog both for well logs interpretation software. I can also use PowerLog to interpret well logs in intermediate level with some help from manuals and/or producers. I even interpreted daily hydrocarbon saturated intervals with well logs in drilling sites and office.

C. Petroleum system modeling software : PetroMod (Intermediate)

I have used PetroMod to conduct petroleum system modeling since 2017. I can handle this PetroMod without any assistance from producers.