

## LABORATORIUM FORMASI EVALUASI

Parameters Determination of Reservoir Core Study

1. **Routine Core Analysis**
2. **Special Core Analysis**
3. **Rock Mechanic**
4. **Migas Non Konvensional**

## LABORATORIUM ANALISIS FLUIDA RESERVOIR

Parameters Determination of Reservoir Fluid Study

1. **Reservoir Fluid Analysis**
2. **Compositional Analysis of Oil/Gas**
3. **Formation Water Analysis**
4. **Wellsite Fluid Sampling**
5. **Rental**

## LABORATORIUM PEMBORAN

Scope of Work Testing:

1. **Drilling Fluid Material**
2. **Sand Material**
3. **Water Analysis**
4. **Environmental Drilling**
5. **Rental**

## LABORATORIUM PRODUKSI

Service Provided :

1. **Methane Gas Leak & Emission Surveys**
2. **Well Slickline Services**
3. **Well Production Optimization Services**

## LABORATORIUM ENHANCED OIL RECOVERY LABORATORY

EOR Laboratory Analysis to evaluate chemical and gas on the laboratory scale to increase oil production

1. **Screening Chemical EOR**
2. **Chemical EOR Verification**
3. **Surfactant Synthesis**
4. **CO2 Lab Analysis**

## STUDI GGR AND RESERVES CERTIFICATION STUDY

- **Geology, Geophysic, Reservoir Study**
- **Reserves Certification**

## STUDI RESERVOIR SIMULATION STUDY

- EOR screening
- Rebuild static model
- Closed loop modeling
- Forecasting
- Model optimization
- Uncertainty assessment
- Scenario development

## STUDI RESERVOIR MODELLING STUDY

- **Reservoir Geomechanics Modelling**
- **Optimization of Steamflooding Heavy Oil**



KEMENTERIAN ESDM  
DIREKTORAT JENDERAL MIGAS  
**LEMIGAS**


**BLU**  
SPEED



# Divisi Eksplorasi

Laboratorium yang berada di Divisi Eksplorasi minyak dan gas bumi telah terakreditasi oleh Komite Akreditasi Nasional (KAN) LP-085-IDN dan sesuai dengan SNI ISO/IEC 17025:2017 (ISO/IEC 17025:2017)

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## LAYANAN LABORATORIUM DAN STUDI DIVISI EKSPLOITASI

Program dan kegiatan yang dilakukan diupayakan untuk meningkatkan produksi migas baik secara konvensional maupun non-konvensional, serta membantu memberikan solusi kepada pemerintah dan sektor industri migas terkait dengan teknologi peningkatan produksi migas.

Divisi Eksploitasi berperan aktif dalam memberikan masukan yang menunjang kebijakan pemerintah, kemajuan industri dalam meningkatkan sumber daya migas nasional, serta memberikan solusi pada industri migas melalui pelayanan Jasa Studi, Jasa Analisis Laboratorium, sewa alat dan perbantuan tenaga ahli teknologi eksploitasi.

Laboratorium Pengujian Teknologi Eksploitasi telah berpengalaman dalam pengujian terhadap data eksploitasi minyak dan gas bumi dari berbagai perusahaan dan seluruh cekungan sedimen di Indonesia sejak era 70an.

Laboratorium yang berada di Divisi Eksploitasi minyak dan gas bumi telah terakreditasi oleh Komite Akreditasi Nasional (KAN) LP-085-IDN sesuai dengan Persyaratan untuk Kompetensi Laboratorium Pengujian dan Laboratorium Kalibrasi sesuai SNI ISO/IEC 17025:2017 (ISO/IEC 17025:2017)

**4** Laboratorium  
Pengujian

**8+** Pengalaman  
Studi

**9** Penyewaan  
Aset

### 01 LABORATORIUM

- Evaluasi Formasi (Routine core analysis, special core analysis, rock mechanic, unconventional hydrocarbon)
- PVT (Black oil, volatile oil, dry gas, wet gas, gas-condensate reservoir fluid analysis)
- Pemboran dan Produksi (Lumpur, semen, foaming agent, organic fluid completion, scale removal, sand problem, survey emisi gas methane, well integrity)
- EOR (CCS/CCUS, screening chemical, verifikasi chemical, sintesa surfaktan)

### 02 STUDI

- Studi Pengembangan Lapangan (PoD)
- Studi Sertifikasi Cadangan Migas
- Studi Tertiary Recovery (EOR)
- Studi GGR
- Studi Waterflood
- Studi Optimasi Produksi
- Studi Stimulasi Sumuran

### 03 PENYEWAAN ASET

- Rig Hidraulik
- Digital Well Analyzer / Echometer
- Electronic Medical Record (EMR) for subsurface temperature and pressure
- Slickline unit
- Wireline unit
- Pressure Control Equipment Unit
- Truck Crane
- Canister tube for Unconventional Oil and Gas
- Oil and Gas Sample Cylinder

### 04 TENAGA AHLI

- Simulation Reservoir Expert
- EOR Simulation Expert
- Petrophysic Expert
- Stimulation Well Expert
- PVT Laboratory Expert
- Drilling Expert

### 05 PENGALAMAN DIVISI EKSPLOITASI

- Study Chemical EOR Lapangan Kaji Semoga
- Studi Pemetaan Potensi CO2 di Seluruh Indonesia
- Study CCUS Jambi Sojitz Corporation
- Study for Development of Supercritical CO2
- Laboratory Studies of ASP Flooding at Minas Field
- Research Development of Surfactant Based on Natural Oil for Enhanced Oil Recovery Application
- Verification Studies of Surfactant Polymer for Tanjung Field Zone C
- Chemical Tracer Selection Method for Minas Oil Field
- Laboratory Studies of Chemical EOR Development Based on Natural Oil Surfactant and Screening Polymer for Jirak Oil Field 3rd Layer
- Verification Studies of Surfactant Polymer for Melibur Oil Field
- Screening Chemical Surfactant Polymer for Pedada Oil Field
- Optimasi Studi Surfactant Polymer Lapangan Jirak Lapisan 3rd
- Pre-Feasibility EOR-CO2 Flooding Struktur Ramba
- Screening Chemical Surfactant Polymer for Bentayan Oil Field

