Proposal Penawaran Training IATMI

“PVT Properties And Analysis”

Ikatan Ahli Teknik Perminyakan Indonesia (IATMI)
Koperasi Jasa Usaha Mandiri IATMI (KOPUM IATMI)
Komplek Perkantoran “PPPTMGB LEMIGAS”, Gedung Penunjang lt. 2
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1. KOPUM IATMI

Ikatan Ahli Teknik Perminyakan Indonesia (IATMI)

Ikatan Ahli Teknik Perminyakan Indonesia (IATMI) merupakan organisasi professional yang didirikan di Jakarta pada 7 Juni 1979 oleh sekelompok professional Indonesia yang bekerja di bidang industri perminyakan dan geothermal. Pada saat ini IATMI memiliki lebih dari 10.000 anggota tersebar di seluruh
Indonesia dan beberapa negara di dunia. Melalui sinergi dengan stakeholder terkait, IATMI bertujuan untuk melayani anggotanya untuk meningkatkan pengetahuan, mendukung pengembangan profesional minyak bumi dan gas Indonesia. IATMI juga akan terus bekerja sama dengan organisasi-organisasi profesional lain untuk mempromosikan sinergi dan profesionalisme, dan juga menyumbangkan ide dan pemikiran dalam memajukan energi bangsa dalam bentuk rekomendasi, mengadakan berbagai aktivitas dan event keenergian dll.

Visi IATMI : A Respectable IATMI (IATMI Dihormati)
Misi IATMI : Professionalisme berintegritas untuk bangsa
Nilai Nilai IATMI : Professional, Independen, dan Berani

"IATMI Terdiri lebih dari 10,000 anggota ahli migas yang tersebar di seluruh Indonesia dan beberapa negara di dunia. Beperan aktif memberikan kontribusi dalam memajukan industri migas nasional dan dunia"

Koperasi Jasa Usaha Mandiri IATMI (KOPUM IATMI)

Koperasi Jasa Usaha Mandiri merupakan badan usaha yang ditunjuk IATMI untuk mengkordinir berbagai kegiatan IATMI dalam bentuk pelatihan, kursus, Workshop, lunch talk, sertifikasi dan jasa-jasa lainnya. KOPUM IATMI diharapkan dapat mendukung untuk memajukan kemampuan softskill dan hardskill para professional yang bekerja di bidang migas dan pendukungnya. Banyak acara yang sudah dilaksanakan secara rutin dengan partisipasi peserta sudah lebih dari 1000 professional dengan instruktur yang berkualitas nasional maupun internasional. Hal ini menjadi bentuk dukungan yang nyata dalam memajukan energi bangsa.

List training yang pernah kami adakan, diantaranya:

Reservoir:
- Advance Reservoir Engineering
- Enhance Oil Recovery (EOR):fundamental & Application
- Chemical Enhanced Oil Recovery (CEOR)
- Well Testing - Pressure Transient Analysis
- Reservoir Modelling: Fundamental, Workflow, Software Application & Case Study
- Pelatihan Petugas Pengambil Contoh (PPC) – PVT Tutorial & Field Trip Ke Cepu
- Reliability Of Core Analysis & PVT Data
- Open Hole Formation Evaluation, Case Hole Log Interpretation
- Plan Of Development & Subsurface (POD)
- Basic Petroleum Engineer For Non Petroleum Engineer

Produksi:
- Hydraulic Fracture Treatment Design & Evaluation
- Advance Production Engineering

Drilling:
- Advance Drilling Engineering
- Analysis Horizontal Wells And Formation Damage Handling
- Well Integrity

Lain-lain
- Petroleum Economic & Risk Analysis
- Gas Development & Commercialization
- WP&B dan AFE
- Oil And Gas Pipeline Design And Maintenance
- Oil & Gas Business
- Geothermal
- Microsoft Office For Engineer
- Sertifikasi Petroleum Engineer SPE - IATMI
- Leadership Program For Oil & Gas Professional
- Dan lain lain... (*Tersedia dalam training MAP kami)

"Banyak Judul training kami sediakan dan terselenggara setiap tahunnya dengan pembicara professional baik dalam maupun luar negeri mendukung peningkatan kompetensi di bidang Migas"

Client-client yang pernah bekerjasama dengan IATMI Training Center, diantaranya:

"Hampir seluruh perusahaan migas di Indonesia telah bekerjasama mempercayakannya kepada kami dengan lebih dari 1000 professional Migas Indonesia yang telah berpartisipasi"

2.Kelebihan Mengikuti Training IATMI

Kelebihan mengikuti Training IATMI

- Memiliki instruktur nasional dan internasional berkualitas dan berpengalaman dari para pakar di bidang Migas yang merupakan anggota dari Ikatan Ahli Teknik Perminyakan Indonesia (IATMI) ~ Instruktur dapat disesuaikan permintaan.
- Materi belajar yang komprehensif, tepat target, dan mudah dimengerti.
- Akan mendapatkan buku materi yang mendukung proses pembelajaran selama kegiatan training.
- Akan mendapatkan peralatan kursus berupa book organizer dan alat tulis
- Akan mendapatkan sertifikat secara resmi dan diakui dari IATMI.
- Akan mendapatkan souvenir menarik.
- Perencanaan dan pelaksanaan training dapat diatur secara fleksibel, mengikuti kebutuhan.
- Tempat pelatihan dilaksanakan ditempat yang menarik dan cocok untuk belajar ataupun dapat diadakan sesuai permintaan.
- Akan mendapatkan free IATMI Membership selama 2 tahun dimana peserta dapat mengikuti segala informasi mengenai Migas melalui email secara reguler.
- Harga pelatihan yang ditawarkan kompetitif (~melalui negosiasi) dengan pelayanan yang baik dan menjaga kualitas materi dan pelaksanaan training.

3. Materi Kursus

- **About the Course**

This course will present about reservoir fluids and how to get those fluids, the process from raw to be a value information to predict the depletion performance of complex fluid systems. The advanced of PVT fluid characterization is also introduced to enhanced engineers ability in doing reservoir fluid analysis, modeling and strategy.

Objective

Understand the type of reservoir fluids and its phase behavior, sampling purposes, strategy, types, quality control and its best practice, required laboratory tests, Understand the benefit of doing PVT fluid characterization, workflow of PVT characterization and its best practices.

- **Topic for Discussion**

- Introduction
- Classification of Reservoir Fluids
- Basic Reservoir Fluid Properties
- Best practices of Sampling and Laboratory Tests
- PVT Fluid Characterization
- Non-Compositional Characterization
- Compositional Characterization using EOS
- Workflow of EOS PVT Characterization
- Best practices of PVT Characterization
- Preparing PVT data for Reservoir Simulation
- Class Problem

- **Duration**

- 5 Days

4. Instruktur Training

Pada materi kursus mengenai **"PVT Properties And Analysis"**, trainer yang menyampaikan seluruh topik ini yaitu **Bapak Luky Hendraningrat & Usman Pasarai** yang merupakan professional dan berpengalaman dalam topik ini.

- # Luky Hendraningrat, Ph.D

- nationality : Indonesian
- Mobile : +62 822 982 83 813
- E-mail : lucker83@gmail.com
- Expertise : Reservoir Modeling/Simulation, IOR/ EOR, PVT Fluid, Characterization, SCAL and Routine core analysis, Research
- Key Qualities
  Dr. Luky is a Principal Reservoir Engineer (IOR/EOR Specialist) with very strong proven background in Reservoir Simulation and IOR/EOR. He received his Doctorate degree in reservoir engineering, specialised in EOR from NTNU, Norway. He has also published more than 23 articles. (Citations about 402 times (Google Scholar citation count in June 2017; h-index – 12; i10-index – 13).

  He has vast experiences and in-depth understanding of both improved oil recovery (IOR) e.g. waterflooding and enhanced oil recovery (EOR). This includes miscible and immiscible flooding, CO2, Carbonated water, Chemical, Thermal and recent method (Nano-EOR), to enhance oil for conventional and unconventional oil such as Athabasca Oil Sand.
  Dr. Luky is a creative reservoir engineer. With his creativity in doing reservoir modelling, he is now introducing a new reservoir engineering approach (Data driven modelling) in complex reservoirs where normal modelling rules do not apply at Offshore fields. During his service period in ConocoPhillips, he has successfully identified and mitigated reservoir risks and uncertainties by acquiring and analysing sufficient reservoir and production data in an offshore field.

He holds several positions in professional/ academic committee. This includes Technical

Committee of SPE APOGCE 2017, Chairman and Technical Judge for Best Paper Award in IPA

Annual Symposium from 2015 to 201, invited speaker for EOR forum/ EOR seminar/ workshop hold by different bodies worldwide including Indonesia Operators and SKKMIGAS, Indonesia Ministry of Energy & Mineral Resources and SPE Norway. He also served as Chairman for EOR session in 76th Annual EAGE in The Netherlands. He is a Technical Editor in reservoir engineering area for worldwide reputable Journals/papers (Elsevier, Springer, American Chemist Society).

His strong efforts, enthusiasm, deep knowledge in reservoir engineering particularly IOR/EOR and good understanding in onshore and offshore oil and gas fields has gained him several special awards. This includes ConocoPhillips' Recognition Award in outstanding reservoir simulation modelling at the highest level and outstanding performance award from PT. Medco E&P Indonesia. In addition, he has been a nominee for ENI Award 2014 and 2015 for New Frontiers in Hydrocarbons.

- **Academic Attainment**

➢ Doctor of Philosophy in Reservoir Engineering (EOR)
➢ The Norwegian University of Science and Technology (NTNU)
➢ Master of Science (MSc) in Reservoir Engineering (Reservoir Simulation), The Norwegian University of Science and Technology (NTNU)
➢ Bachelor of Engineering in Petroleum Engineering, The Bandung Institute of Technology (ITB), Indonesia

- **Simulation Skills**

Reservoir simulators packages: Eclipse (100 & 300, Petrel RE), PSIM/CSIM (ConocoPhillips's Inhouse), Tnav Simulation, CMG (IMEX, GEM & STARS), Material balance (MBAL); uncertainty, sensitivity and Optimization tools (CMOST, SPARK); PVT characterization and evaluation (PVTi, Winprop, PVTP); Reservoir surveillance (OFM); Well performance analysis (Wellflo & Prosper); Integrated reservoir modeling using Pipe-It (Petrostreams); well testing analysis (Kappa-Saphire)

- **Experiences**

➢ AURORIS OIL & GAS, 2017- 2018 : Principal Reservoir Engineer (IOR/EOR Specialist)
➢ PT. MEDCO E&P NATUNA LTD, INDONESIA, 2016 – 2017: Senior Reservoir Engineer
➢ CONOCOPHILLIPS INC, INDONESIA, 2014 – 2016: Senior Reservoir Engineer
PT. MEDCO E&P INDONESIA, 2005 – 2014: Reservoir Engineer

➢ PERA AS, 2009 – 2010: Reservoir Consultant (Simulation Management)
➢ UNOCAL 76 INDONESIA, 2004: Reservoir Engineer Intern
➢ KONDUR PETROLEUM SA, 2004: Petroleum Engineer Intern
➢ INSTITUTE TECHNOLOGY BANDUNG, 2003 – 2004: Teaching assistant (Reservoir Engineering)

Dr. Ir. Usman Pasarai

- Nationality - Indonesian
- Address - Jl. Ciledug Raya –Cipulir –Kebayoran Lama, Jakarta Selatan 12230, Indonesia
- Phone - +62-811-104257 (cellular)
- Email – Address : upasarai@lemigas.esdm.go.id
- Languages Proficiency
  - Indonesian (native)
  - English (excellent)
  - Japanese (moderate)

- Skills
- Execute complete research cycle encompass building research proposal, manage qualitative & quantitative data collection, report writing and summarizing & explaining research findings & their implications.
- Talent on multiple oil & gas upstream research project: improved HC recovery (IOR/EOR), reserve certification, oil & gas field development, CO2 management, etc.
- Coordinating, change management & leading a team.
- Operational perspective and result oriented.
- Data analysis, policy recommendations.
- Process definition and mapping for management review
- Experienced in simulator development

Marital Status - Married with 2 children

- PROFESSIONAL EXPERIENCES
  Doctoral Degree on Petroleum Engineering from Waseda University, JAPAN with more than 24 years experiences as Senior Researcher working in Indonesia's Research and Development Center for Oil and Gas Technology "LEMIGAS" (www.lemigas.esdm.go.id/)

- PERSONAL STRENGTHS
- Able to work independently within larger context of Research in Upstream and Downstream Oil & Gas business.
- Evidence of strong communication and organizational skills.
- Ability to manage several projects simultaneously and under pressure of deadlines to time and budget goals.
- Demonstrated capability in managing project tasks.
- Technical expertise and supervisor/staff development skills.
- Experienced in developing policy recommendations based on research evidence and developing a new policy developments in key research areas.
- Proven work productively and at a high level of quality, and represent the company in a professional manner in dealings with outside individuals and organizations.

- WORK / ACADEMIC EXPERIENCES
- 06/2013 – present Head of Programme Division of Indonesia's Research and Development Center for Oil and Gas Technology "LEMIGAS" (www.lemigas.esdm.go.id/)
- 03/2011-05/2013 Head of R&D for Exploitation Technology of Indonesia's Research and Development Center for Oil and Gas Technology "LEMIGAS"
- 04/2004-03/2006 Research Associate, Waseda University, Dept. of Resources and Environmental Engineering (http://www.env.waseda.ac.jp)
- 04/1994-present Senior Researcher of Indonesia's Research and Development Center for Oil and Gas Technology "LEMIGAS"
- 2008-present Lecturer, Trisakti University Department of Petroleum Engineering (www.trisakti.ac.id)

- EDUCATIONAL BACKGROUND
- March 2007 Dr. in Petroleum Engineering, Waseda University, Tokyo
- March 2003 M. Eng. in Petroleum Engineering, Waseda University, Tokyo
- October 1992 B.E. in Petroleum Engineering, Bandung Institute of Technology (www.itb.ac.id/en)

- PROFESSIONAL AFFILIATIONS
- Society of Petroleum Engineers (SPE)
- Society of Indonesian Petroleum Engineers (IATMI)

- PROFESSIONAL EXPERIENCES / STUDY ACCOMPLISHED
- 2015 Carbon Capture and Storage for Coal-Fired Power Plants in Indonesia, Funded by the World Bank
- 2013 Evaluation of Reserves and Production Capacity of Tapian Timur Field, Funded by PT. Pertamina EP
- 2012 i. Determining the Potential for Carbon Capture and Storage in Southeast Asia: Indonesia Case Study Funded by Asian Development Bank
- ii. Oil Fields Screening for CO2 Injection in Central and South Sumatera Regions Funded by Japan Coal Energy Center (JCOAL)
- 2010 i. CO2 Storage Potential in Geological Formations in Indonesia Funded by Government of Indonesia
- ii. Study on WAG Flooding for EOR Funded by Korea Institute of Geoscience and Mineral Resources (KIGAM)
- 2009 i. Gas Reserves Certification of the Matindok Field, in the Central Sulawesi, Republic of Indonesia Funded by PT PERTAMINA EP
- ii. Gas Reserves Certification of the JAU Field Krueng Mane PSC Block in the Offshore North of Sumatera, Republic of Indonesia Funded by ENI Indonesia Limited
- iii. Study on CO2 Flooding Technology Using Field Data for Enhanced Oil Recovery Funded by Korea Institute of Geoscience and Mineral Resources (KIGAM)
- iv. Gas Reserves Certification of the Kampung Baru Field in the South Sulawesi, Republic of Indonesia Funded by Energy Equity (EPIC) Sengkang
- 2008 i. Review of Gas Deliverability Potential of EMOI's Fieldsat Aceh Production Operation Funded by Exxon Mobil Oil Indonesia, Aceh Production Operation
- ii. Studies on IOR/EOR Using Horizontal Well Technology for Well Production Optimization
- Funded by Korea Institute of Geoscience and Mineral Resources (KIGAM)
- iii. Studies on Recovery and Productivity Improvement of Low Permeability (Tight) Gas Reservoir under Hydraulic Fracturing Technology Funded by Korea Institute of Geoscience and Mineral Resources (KIGAM)
  - iv. Laboratory Study of Surfactant Injection for Pusaka Field, Sumatera. Funded by JOB PERTAMINA –BSP

- v. Gas Reserves Certification of the Suban Field Corridor Block in the Central of Sumatera, Republic of Indonesia Funded by ConocoPhillips and PT PERTAMINAEP
- vi. Water Injection Laboratory Test on Abab, Raja, and Dewa Fields. Funded by JOB PERTAMINA - LEKOM MARAS
- 2007 Verification of Zulu Hydrocarbon Reserves Funded by BP West Java, Ltd.
- 2002-2003 Study on Evaluation of LPG Aggregation Project, Jambi Area Funded by PETROCHINA, ITOCHU, AMERADAHESS, PETRONAS, PERTAMINA
- 1997-1999 Laboratory Study on Lost Circulation Materials for Geothermal Wells Funded by PERTAMINA
- 1997-1998 Performance and Development of the Kamojang Geothermal Field, West Java Funded by PERTAMINA
- 1996 Reserves Verification Study of the Malacca Strait Fields (Lalang, Mengkapan, Melibur, Kurau and Selatan) Funded by Kondur PetroleumS.A
- 1994-1996 East Kalimantan Gas Deliverability Study Phase-IV and V Funded by UNOCAL

5. Estimasi Rundown

PVT Properties And Analysis
Instructor: Luky Hendraningrat & Usman Pasarai

Hari ke-1				
Jam		Kegiatan dan Materi	Pembicara	Keterangan
		Registration		
		Pembukaan & Safety Briefing Hotel		
		Introduction	Instruktur	
		Coffee Break		
		Penyampaian Materi	Instruktur	
		Makan Siang dan Sholat		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penyampaian Materi	Instruktur	
Hari ke-2				
Jam		Kegiatan dan Materi	Pembicara	Keterangan
		Registrasi Ulang		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penyampaian Materi	Instruktur	
		Makan Siang dan Sholat		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penyampaian Materi	Instruktur	

Hari ke-3				
Jam		Kegiatan dan Materi	Pembicara	Keterangan
		Registrasi Ulang		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penyampaian Materi	Instruktur	
		Makan Siang dan Sholat		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penutupan	Instruktur	

Hari ke-4				
Jam		Kegiatan dan Materi	Pembicara	Keterangan
		Registrasi Ulang		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penyampaian Materi	Instruktur	
		Makan Siang dan Sholat		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penutupan	Instruktur	

Hari ke-5				
Jam		Kegiatan dan Materi	Pembicara	Keterangan
		Registrasi Ulang		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penyampaian Materi	Instruktur	
		Makan Siang dan Sholat		
		Penyampaian Materi	Instruktur	
		Rehat Kopi		
		Penutupan	Instruktur	

6. Gallery Training IATMI

EXAMINATION PETROLEUM ENGINEERING CERTIFICATION

09 MARCH, 2018 at SENSA HOTEL - BANDUNG

ORGANIZER BY IATMI

DUDUK DARI KIRI KE KANAN:		BERDIRI DARI KIRI KE KANAN:	
1. CATUR SUNAWAN BALYA	- PT. PERTAMINA EP	1. BAYU HAMZA	- PT. PERTAMINA EP
2. ANDRI TAUFIK SUHERMAN	- PT. PERTAMINA EP	2. DODY SIGIT PRASETYO	- PT. PERTAMINA EP
3. ADE YOHANA KUMARI	- PT. PERTAMINA EP	3. CAHYA KUSPRIONO	- PT. PERTAMINA EP
4. Ir. BAMBANG PUDJIANTO	- IATMI	4. HARRY KANANTA	- PT. PERTAMINA EP
5. SRI F. TARMIZI	- IATMI	5. SUKANTO	- PT. PERTAMINA EP
6. RS. TRIJANA KARTO ATMODJO	- IATMI	6. HADIYAN DWI RACHMAWAN	- PT. PERTAMINA EP
7. ARTIKA FEBRIANA PRADITIA	- PT. PERTAMINA EP	7. JHON HAKIM GINTING	- PT. SANTOS PTY LTD
8. SUSAN SYAHDINA	- PT. PERTAMINA EP	8. GURMILANG ADHIKA	- PT. PERTAMINA EP
9. NUNI HANDAYANI	- PT. PERTAMINA EP	9. BUDI DARMAWAN	- PT. PERTAMINA EP
		10. ERWIN DICKY D.	- PT. PERTAMINA EP
		11. DODI KURNIAWAN	- PT. PERTAMINA EP

TUTORIAL PETROLEUM ENGINEERING CERTIFICATION

5 - 8 MARCH, 2018 at SENSA HOTEL - BANDUNG

ORGANIZER BY IATMI

DUDUK DARI KIRI KE KANAN:		BERDIRI DARI KIRI KE KANAN:	
1. CATUR SUNAWAN BALYA	- PT. PERTAMINA EP	1. BAYU HAMZA	- PT. PERTAMINA EP
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4. ADE YOHANA KUMARI	- PT. PERTAMINA EP	4. HARRY KANANTA	- PT. PERTAMINA EP
5. Ir. BAMBANG PUDJIANTO	- IATMI	5. SUKANTO	- PT. PERTAMINA EP
6. Dr. ASEP K. PERMADI	- INSTRUCTOR	6. HADIYAN DWI RACHMAWAN	- PT. PERTAMINA EP
7. SUSAN SYAHDINA	- PT. PERTAMINA EP	7. ERWIN. D. D	- PT. PERTAMINA EP
8. NUNI HANDAYANI	- PT. PERTAMINA EP	8. CAHYA KUSPRIONO	- PT. PERTAMINA EP
9. JHON HAKIM GINTING	- PT. SANTOS PTY LTD	9. BUDI DARMAWAN	- PT. PERTAMINA EP
		10. DODI KURNIAWAN	- PT. PERTAMINA EP

TRAINING
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& COMMERCIALIZATION
28 - 31 Agustus 2017 | Crowne Plaza Bandung
Instruktur
Waras Budi Santoso | Lukman Gaos | Ufo Budiarius Anwar | Arief Budiman
IATMI

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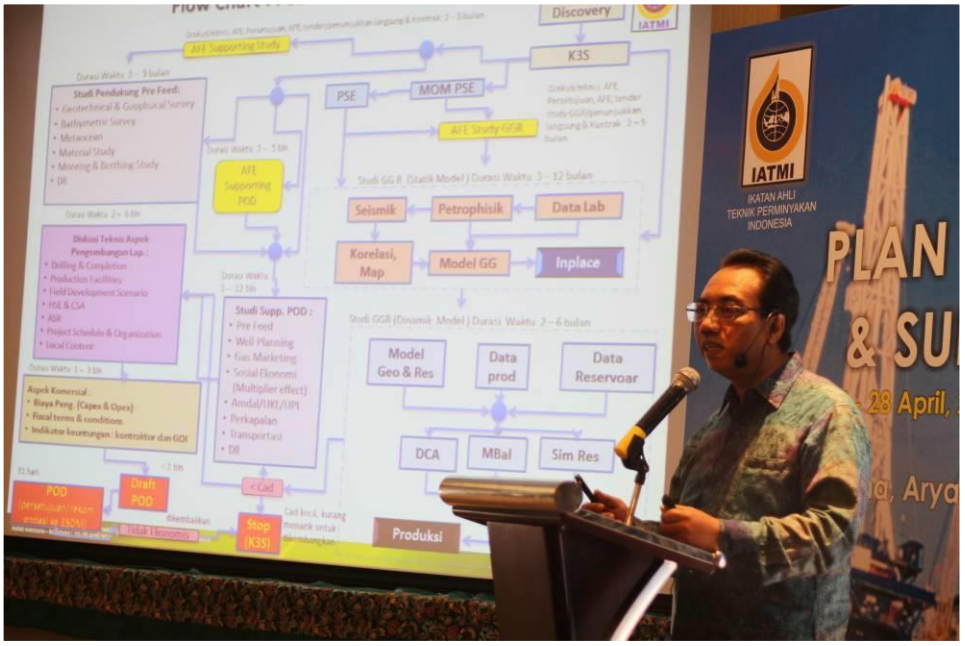
IATMI
www.iatmi.or.id

MC1-D
IATMI
SPE JAVA SECTION MC1-A

PERTAMINA

TRAINING
PLAN OF DEVELOPMENT
& SUBSURFACE (POD)


Discovery
K3S
PSE
MOM PSE
AFE Study GGR
AFE Supporting POD
Seismik
Petrophisik
Data Lab
Korelasi, Map
Model GG
Inplace
Model Geo & Res
Data prod
Data Reservoar
DCA
MBal
Sim Res
Produksi
Stop (K3S)
IATMI
IKATAN AHLI TEKNIK PERMINYAKAN INDONESIA

CENDRAWASIH ROOM

SKK MIGAS EDUFAIR 2017

Ikatan Ahli Teknik Perminyakan Indonesia (IATMI)
Koperasi Jasa Usaha Mandiri IATMI (KOPUM IATMI)
Komplek Perkantoran “PPPTMGB LEMIGAS”, Gedung Penunjang lt. 2
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