

# **43rd Annual Convention of the Indonesian Petroleum Association 2019**

Jakarta, Indonesia  
4 – 6 September 2019

Volume 1 of 4

ISBN: 978-1-7138-1465-8

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2019) by Indonesian Petroleum Association  
All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact Indonesian Petroleum Association  
at the address below.

Indonesian Petroleum Association  
Indonesia Stock Exchange  
Building Tower II, 20th Floor (Suite 2001)  
Jl. Jendral Sudirman Kav.52-53  
Jakarta 12190  
Indonesia

Phone: +62 21 515-5959  
Fax: +62 215140-2545/6

[inquiries@ipa.or.id](mailto:inquiries@ipa.or.id)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2633  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

## VOLUME 1

### EXPLORATION - EASTERN INDONESIA

MASS TRANSPORT COMPLEX IN EAST SUMBA: A REFERENCE FROM WORLD-CLASS OUTCROP AT WATUPARUNU COAST – MIO-PLIOCENE GRAVITY SLUMPS .....	1
<i>Satyana, A. H; Aries B. Nugroho, A. B; Armandita, C; Yustiana F.</i>	
ARU TROUGH; THE UNDISCOVERED MESOZOIC PLAY IN EASTERN INDONESIA .....	26
<i>Dwiperkasa, A. W; Setiawan, D; Irfree, B.</i>	
SOURCE ROCK MATURITY, TIMING OF HYDROCARBON GENERATION AND EXPULSION OF THE ARAR AND WALIO AREAS, SALAWATI BASIN, WEST PAPUA, INDONESIA .....	40
<i>Ozza, T; Sompie, M; Silalahi, E; Utoro, E. S; Miraza, D</i>	
SIGNIFICANT IMPACT USING INTEGRATED 3D SANDBOX MODELING AND PALINSPASTIC RECONSTRUCTIONS OF FOLD-THRUST-BELT FOR EXPLORING HYDROCARBON PROSPECT IN EASTERN INDONESIA .....	61
<i>Sapiie, B; Hadiana, M; Furqan, T. A; Perdana, L. A; Saputra, A.</i>	
EXPLORING MESOZOIC PLAY TYPE OF SALAWATI BASIN, WEST PAPUA, INDONESIA: A MODERN STUDY APPROACH .....	71
<i>Tsania Ozza, Michael Sompie, Eli Silalahi, Wah Adi Suseno, Donny Miraza Ozza, T; Sompie, M; Silalahi, E; Sueno, W. A; Miraza, D</i>	

### RESERVOIR QUALITY

RESERVOIR CHARACTERIZATION AND STORAGE CAPACITY EVALUATION FOR CARBON CAPTURE AND STORAGE: A CASE STUDY FROM EAST NATUNA .....	81
<i>Prabowo, K; Cherdasa, J. R; Syihab, Z; Ariadji, T.</i>	
NEW PARADIGM FOR PRODUCING HYDROCARBON POTENTIAL FROM BASEMENT RESERVOIR AT JABUNG BLOCK, SOUTH SUMATRA BASIN .....	97
<i>Safrizal, H; Kauripan, S. P; Buldani, I.</i>	
UNDERSTANDING RESERVOIR QUALITY MECHANISMS IN THE WIRIAGAR DEEP PALEOCENE FIELD PAPUA BARAT PROVINCE .....	108
<i>Nauw, M; Yudhanto, E. V; Maulana, A; Clark, N; Doughty-Jones, G.</i>	
RESERVOIR QUALITY REGION (RQR) PREDICTION THROUGHOUT THE KEDUNG KERIS FIELD, ONSHORE EAST JAVA .....	131
<i>Sulistyaningrum, I; Sekti, R. P; Strohmenger, C. J; Hidayah, T. N.</i>	
UNRAVELLING CARBONATE RESERVOIRS: ENUMERATING POROSITY FROM CORES & WELL-LOGS .....	145
<i>Joshi, R. M; Singh, K. H; Soni, A.</i>	

## **SEISMIC PROCESSING**

IMPROVING STRATIGRAPHIC AND STRUCTURAL INTERPRETATION OF SUBAN 3D THROUGH ADVANCED REPROCESSING.....	161
<i>Nurida, S; Syukri, I. Y; Andria, L.</i>	
PRE-STACK INVERSION TO SEISMIC ROCK TYPE PREDICTABILITY (SRT) CASE STUDY: GABUS ZONE 3B IN BELANAK FIELD .....	175
<i>Kurniawan, B. A; Meirita, M. F; Harahap, A. E; Navilova, H; Abadi, W. G.</i>	
APPLICATION OF FULL WAVEFORM INVERSION TO RESOLVE AN ERODED SHALLOW CARBONATE PLATFORM, NORTH MADURA, EAST JAVA, INDONESIA .....	204
<i>Cavalin, D; Ismail, N; Paten, T; Agbebi, K; Lim, D.</i>	
HYBRID VELOCITY MODEL BUILDING: 3D OCEAN BOTTOM CABLE (OBC) ORTHORHOMBIC FULL WAVEFORM INVERSION (FWI) DEPTH IMAGING OF A COMPLEX GEOLOGICAL STRUCTURE, WESTERN BERAU – PAPUA, INDONESIA .....	214
<i>Santoso, P; Supriatna, Y; Septyana, T; Tjahjadi, L; Guo, Y.</i>	
NEAR SURFACE IMAGING USING JOINT SEISMIC GRAVITY INVERSION.....	224
<i>Suroso, T; Nurdiyanto, B; Nugraha, T. B; Novitasari, L; Winarto, H.</i>	

## **RESERVOIR MANAGEMENT**

NATURALLY FRACTURED GAS SANDSTONE RESERVOIR BEHAVIOR: LESSONS LEARNED .....	233
<i>Dyah, Y; Rochaendy, R; Satriawan, W; Wibowo, A; Budiyo</i>	
PRESSURE TRANSIENT ANALYSIS IN TIGHT OIL RESERVOIR, LEAK-OFF TEST VS PBU TEST .....	246
<i>Hamzah, K; Prakoso, N. F; Ariwibowo, B; Aliefiyan, N. M.</i>	
APPLICATION OF HYDRODYNAMIC ANALYSIS TO INVESTIGATE POSSIBILITY RESERVOIR CONNECTIVITY BETWEEN NEIGHBORING GAS FIELDS .....	258
<i>Firmanto, T; Adachi, Y.</i>	
DECISION-MAKING PROCESS FOR DEVELOPMENT OF OIL FIELDS BASED ON STATIC AND PRODUCTION DATA ANALYSIS FROM EXPLORATION WELLS.....	269
<i>Arshanda, M. I; Finaldhi, E; Alkahfi, S. H; Bhark, E. W.</i>	

## **PRODUCTION OPTIMIZATION (1)**

SUCCESS STORY OF FLOW CHANNEL FRACTURING FOR WEATHERED BASEMENT RESERVOIR AT JABUNG BLOCK .....	287
<i>Safrizal, H; Kauripan, S. P; Wicaksono</i>	
SUCCESS STORY OF INCREASING OIL PRODUCTION AND SAND HANDLING PERFORMANCE BY PCP IMPLEMENTATION IN HEAVY OIL RESERVOIR UNDER CSS TREATMENT.....	295
<i>Massewa, D. A; Nugraha, F; Akbar, F. I; Febrianto, L; Marsiyanto, N.</i>	

ACIDIZING STIMULATION BREAKTHROUGH USING CHELATING ACIDIZING SYSTEM AT SANDSTONE FORMATION AND LIMESTONE FORMATION.....	306
<i>Amru, K; Prakoso, N. F; Kusuma, H; Afandi, R; Muklas, A. N.</i>	
SUCCESS STORY OF SUSTAINING PRODUCTION OF SHALLOW SAND RESERVOIR WITH SCREENLESS FRACPACK TREATMENT IN MANGUNJAYA FIELD OF PT. PERTAMINA EP ASSET 1 .....	313
<i>Putranti, A; Nasution, S. L; Giansyah, M. Z; Sarwono, A. W; Dusyanto, E. D.</i>	
DEVELOPMENT OF OIL HYDROCARBON POTENCY CHARACTERIZATION AND IDENTIFICATION TECHNIQUES ON LOW QUALITY RESERVOIR.....	320
<i>Yaser, A; Febrianto, D. H; Arham, M. A; Prakoso, N. F; Sigit, G. Y. R. S.</i>	
INTEGRATED ESP APPLICATION AND SAND CONTROL IN LOW PRODUCTIVITY, HIGH GLR AND HYDRAULIC FRACTURED WELLS .....	332
<i>Aryanto, A; Malau, A; Ghozali, F; Parulian, R. A.</i>	

### **STUDENT GEOSCIENCE (1)**

THE PROGRESSIVE ILLITIZATION PROCESS, DIAGENETIC MECHANISM AND ITS EFFECT ON RESERVOIR QUALITY BASED ON SEM, BURIAL HISTORY, AND SIMULTANEOUS MULTI-WELL ANALYSIS: A CASE STUDY IN SANGASANGA BLOCK, KUTAI BASIN, EAST KALIMANTAN.....	339
<i>Aryati, F. D; Setiawan, T; Meilany, Y; Assalam, A.</i>	
EVALUATION OF MACHINE LEARNING METHODS FOR AUTOMATIC FACIES CLASSIFICATION AS A TOOL FOR DETERMINING SANDSTONE AND LIMESTONE RESERVOIR.....	352
<i>Putra, I. R; Hibatullah, M. I; Salim, C; Syaifuddin, F.</i>	
TECTONO-STRATIGRAPHIC FRAMEWORK WITH 2D PALINSPATIC RECONSTRUCTION OF SALAWATI BASIN, BIRD'S HEAD, WEST PAPUA .....	363
<i>Gilang, A; Gunawan, A; Putrazony, S; Prasetyadi, C; Prasetyo, A. C.</i>	
PORE PRESSURE PREDICTION USING SEISMIC AND WELL DATA WITH EATON METHOD AND NEURAL NETWORK IN CARBONATE RESERVOIR, "P" GAS FIELD, NORTH SUMATRA.....	373
<i>Hutomo, P. S; Ramadhan, F. H; Kurnia, R. A; Yudhistira, P. F; Haidar, M. W.</i>	
RESERVOIR CHARACTERIZATION BASED ON PROBABILITY AND FLOW ZONE INDICATOR (FZI) METHOD USING MULTI-RESOLUTION GRAPH-BASED CLUSTERING (MRGC) IN THE KAIS FORMATION, BRANI FIELD, SALAWATI BASIN, WEST PAPUA.....	381
<i>Thabrani, R; Fahrudin, Setyawan, R; Salni, N. R.</i>	
ENHANCING GEOSTATISTICAL SIMULATION USING ADDITIONAL CONSTRAINED TREND FROM SEISMIC-DERIVED PHYSICAL PARAMETERE FOR A QUANTITATIVE AND GEOLOGICALLY REASONABLE SAND FACIES DISTRIBUTION MODEL AT FLUVIAL ENVIRONMENT.....	397
<i>Prianda, S; Alfons, D. C. K; Satria, A.</i>	

### **EXPLORATION - KALIMANTAN-1**

SINTANG INTRUSIVE DELINEATION AND FOCUS AREA FOR HYDROCARBON EXPLORATION IN MELAWI BASIN, WEST KALIMANTAN.....	404
<i>Badaruddin, D. F; Hidayat, Adlan, R; Ramli, T; Nurhidayat, M.</i>	

IDENTIFICATION OF NEW EXPLORATION POTENTIAL IN CENTRAL KALIMANTAN .....	418
<i>Tasrianto, R; Amir, V; Indrawan, R; Andria, L; Keller, T.</i>	

INCREASING THE SUCCESS OF THE PRODUCTION OF NEW DRILLING WELLS THROUGH THE SGS METHOD (SECTORIZATION - GRID BASE - STEP OUT) IN THE DELTAIC RESERVOIR, BUNYU STRUCTURE, BUNYU FIELD .....	434
<i>Tobing, J; Whidiyastuti, Butarbutar, E; Syarif, A; Krisna, R.</i>	

### **SEISMIC ACQUISITION**

A CASE HISTORY: HIGH PRODUCTIVITY SEISMIC DATA ACQUISITION USING BP'S ISS® (INDEPENDENT SIMULTANEOUS SOURCE) WITH TRIPLE SOURCE VESSELS IN 3D TANGGUH SEISMIC NODE SURVEY .....	445
<i>Prastowo, H; Stone, J; Suryanto, D; Priyambodo, D.</i>	

DELIVERING A STEP-CHANGE IN IMAGING FROM INDONESIA'S FIRST OCEAN BOTTOM NODE 3D SEISMIC SURVEY AT TANGGUH.....	457
<i>Birt, C; Prastowo, H; Priyambodo, D; Wolfarth, S; Stone, J.</i>	

SEISMIC QUALITY MONITORING IN QUANTITATIVE WAY DURING ACQUISITION AND PROCESSING, CASE STUDY: OFFSHORE GEOPHYSICAL SITE SURVEY IN SISI-NUBI AND SOUTH MAHAKAM AREA .....	485
<i>Nopiana, A. P; Nugroho, A. W; Nugroho, G. G.</i>	

### **DRILLING AND COMPLETION (1)**

UNDER RIG FLOOR OFFLINE TUBINGLESS CEMENTING IN SWAMP DRILLING RIGS MAHAKAM DELTA .....	492
<i>Saputra, R; Maulana, M. D; Sinaga, H. A; Setiohadi, Agriawan, C.</i>	

APPLICATION OF BIT WITH ADJUSTABLE DEPTH OF CUT TO MITIGATE STICK & SLIP AND SIGNIFICANTLY IMPROVE DRILLING PERFORMANCE IN MAHAKAM - FIRST APPLICATION IN ASIA PACIFIC .....	506
<i>Maulana, M. D; Hermawan, A; Setiohadi, Saputra, R; Febryani, N.</i>	

IMPROVED PRIMARY CEMENTING DESIGN AS MITIGATION TO POST-CEMENTING GAS MIGRATION .....	514
<i>Putra, D. G; Pratama, R. C.</i>	

RISK ANALYSIS MODEL OF INDONESIAN DEEPWATER DRILLING.....	522
<i>Marbun, B. T. H; Sinaga, S. Z.</i>	

### **BUSINESS & COMMERCIAL**

FACILITIES SHARING AGREEMENT IN DOWNSTREAM GAS BUSINESS AS A BREAKTHROUGH TO ACCELERATE AND OPTIMIZE NATURAL GAS MONETIZATION.....	534
<i>Wijaya, G. H; Akbar, G. C; Pratama, A. T.</i>	

A NOVEL DEVELOPMENT CONCEPT FOR CO2-EOR IN SOUTH SUMATRA.....	545
<i>Usman, Iskandar, U. P; Sismartono, D.</i>	

CHALLENGES IN MONETIZING GAS FIELD IN REMOTE AREA .....	557
<i>Hakim, A.</i>	

PERTAMINA SET TO LEAD THE POTENTIALLY BRIGHT PRODUCTION FORECAST FOR INDONESIA .....	567
<i>Pandey, P; Chopra, P.</i>	

### **FACILITY OPTIMIZATION & PRODUCTION INTEGRITY (1)**

LOW COST - LOW RISK INTELLIGENT PIG: SHARING EXPERIENCE OF RUNNING EDDY CURRENT PIG FOR SUBSEA PIPELINE INSPECTION.....	573
<i>Kosasih, A. S; Bakri, F; Sujatmiko, M.</i>	

VALUE INTEGRATED PLANNING FOR HIGH-EXPOSURE MAJOR SHUTDOWN IN MEDCO E&P NATUNA LTD. ....	579
<i>Purnomo, W; Agustiawan, D; Fernando, O; Adriansyah, R; Sitanggang, R.</i>	

RESOLVING GAS TURBINE VIBRATION THROUGH IN-HOUSE HSSE, ASSET INTEGRITY (AI) AND PROCESS SAFETY MANAGEMENT .....	587
<i>Lazuardi, K; Pribadi, M.</i>	

DOUBLE (FULL ENCIRCLEMENT) SLEEVES PIPE AS ONE OF THE BEST METHOD OF PERMANENT REPAIRS REFER TO ASME PCC-2 STUDY CASE: BELIDA (MEDCO E&P NATUNA LTD) GAS LIFT PIPELINE LEAKS .....	601
<i>Putra, Y. A; Nuramanu, N; Sujatmiko, M.</i>	

### **STUDENT ENGINEERING (1)**

INNOVATIVE FOR GLOBAL PRODUCTION OPTIMIZATION TECHNIQUES OF KALIMANTAN OIL FIELD WITH GAS LIFT ALLOCATION UNDER LIMITED GAS SUPPLY USING EQUAL SLOPE METHOD .....	610
<i>Anggara, W. P; Ramadhan, F. J. H; Suwardi, Santoso, A. P.</i>	

COMPARING BETWEEN CO2-EOR AND SURFACTANT INJECTION IMPLEMENTATION IN NGRAYONG FORMATION: OPTIMIZING PRODUCTION EFFICIENCY FOR SUSTAINABILITY .....	621
<i>Salim, M. A. A. V; Hidayatunnisa, R; Ustiawan, A. B; Muthasyabiha, S. R.</i>	

TRIMMED CARBON CAPTURE AND STORAGE (TCCS) TECHNOLOGY THROUGH INNOVATION METHOD BASED ON MICROALGA USE IN PHOTOBIOREACTORS AS PLANNING STRATEGY FOR MITIGATION OF CO2 GAS EMISSIONS IN OIL AND GAS INDUSTRY .....	629
<i>Pratama, P. D; Ananto, A. B; Wara, A. D.</i>	

### **PORE PRESSURE**

NEW EVALUATION ON HARD OVERPRESSURE PLAY IN LOWER KUTAI BASIN.....	636
<i>Apranda, Y. R; Riadi, R. S; Nugraha, T; Permana, R. C; Noeradi, D.</i>	

## **VOLUME 2**

PORE PRESSURE ANALYSIS IN THE CORRIDOR BLOCK, SOUTH SUMATRA BASIN: DISTRIBUTION, MECHANISM, AND PREDICTION.....	649
<i>Syukri, I. Y; Permana, B; Heppard, P. D. Ramdhan, A. M; Hutasoit, L. M.</i>	

AN INTRODUCTION OF MAINE PETROPHYSICAL METHOD; A SOLUTION FOR UNCERTAINTY IN LOW RESISTIVITY PAY SILICICLASTIC RESERVOIR CASE.....	667
<i>Reza, M; Ariefiandhany, R; Shofiyuddin, Ramadhan, G. C; Masardi, K. R. A.</i>	

## **FORMATION EVALUATION**

IRREDUCIBLE WATER SATURATION AND WATER SATURATION COMPARISON AS AN ALTERNATIVE APPROACH FOR HYDROCARBON IDENTIFICATION ON SHALY SAND RESERVOIRS IN MATURE TUNU FIELD, MAHAKAM DELTA .....	680
<i>Restuti, F. A; Hidayat, H. K; Anwar, T; Jong, Y; Supriady</i>	

APPLICATION OF PULSED NEUTRON TECHNOLOGY TO IDENTIFY UNTAPPED OIL IN THE LOW POROSITY, LOW SALINITY KAIS CARBONATE AT SALAWATI BASIN, WEST PAPUA.....	692
<i>Sitinjak, R; Reksahutama, A; Silalahi, E; Sompie, M; Miraza, D.</i>	

REVEALING HYDROCARBON CONTACTS: AN ESSENTIAL APPROACH MANAGING BANYU URIP RESERVOIR DYNAMICS .....	707
<i>Mariana, D; Maura, I. A.</i>	

UNIQUE GAMMA RAY LOG SIGNATURE - GENESIS AND IMPLICATION TO RESERVOIR CHARACTERIZATION: CASE STUDY IN CORRIDOR BLOCK, SOUTH SUMATRA BASIN .....	717
<i>Permana, B. R; Darmadi, Y; Firdaus, M; Syukri, I. Y.</i>	

ASSESSING RESERVOIR PRODUCTICITY USING INNOVATIVE EXPLORATION TECHNOLOGIES AND ADVANCED FORMATION EVALUATION TECHNIQUES.....	731
<i>Negara, I. M. A. S; Firdaus, I; Gultom, L. P; Sadat, A; Juandi, D.</i>	

## **MATURE FIELD (1)**

HOW LOW WE CAN GO? ANTICIPATED PRODUCTION STRATEGY TO OPTIMIZING WELL PRODUCTIVITY IN MATURE FIELD .....	738
<i>Pandu, I. G. N. W; Kahfie, R. M; Arviana, A; Kurniawan, F; Lukman, A.</i>	

MAXIMIZING ASSET VALUE OF MATURE OFFSHORE GAS FIELD THROUGH PROACTIVE RESERVOIR SURVEILLANCES AND IMPLEMENTATION OF STRUCTURALLY PRODUCTION OPTIMIZATION EFFORTS.....	745
<i>Praditya, Y. A; Medianestrian, Wibowo, A. A; Budiyo</i>	

AREAL HISTORY MATCHING APPLICATION TO IMPROVE UNDERSTANDING OF RESERVOIR BEHAVIORS AND IDENTIFY FUTURE OPPORTUNITIES IN RAWA CARBONATE RESERVOIR .....	758
<i>Gaol, A. L; Darmadi, Y; Kusmawan, D.</i>	

40 YEARS OF BEST PRACTICE: GAS LIFT MANAGEMENT TO OPTIMIZE OIL PRODUCTION IN HANDIL FIELD FROM PERTAMINA HULU MAHAKAM.....	773
<i>Widarena, T; Sia, S; Mardin, M; Sulistiyo, Hatmanda, Z.</i>	

HPHT SOUR GAS FIELD EVALUATION AND OPTIMISATION THROUGH RATE TRANSIENT ANALYSIS AND NETWORK MODELING: A CASE STUDY .....	781
<i>Hidayat, A; Febrianto, D. H; Wijayanti, E; Nurhaji, D; Sujai, A.</i>	



## **RESERVOIR EVALUATION (1)**

GEOSTEERING IN A THIN FACIES LAYER THROUGH PROACTIVE COLLABORATION PROCESS OF RESERVOIR INTERPRETATION.....	792
<i>Pudyaksa, A; Harsian, H; Shibuya, T; Wilasari, N. M; Azwar, O.</i>	
HIGH DEFINITION BOREHOLE IMAGER TECHNOLOGY CONVEYED WHILE DRILLING IN HIGH RISK FRACTURED CARBONATE.....	806
<i>Murtani, A. S; Setiawan, A. L., Pasaribu, I. T; Bonafid, K.</i>	
INNOVATIVE METHODS TO IDENTIFY RESERVOIR CONNECTIVITY IN FLUVIAL- DELTAIC RESERVOIRS: CASE STUDY OF RESERVOIR OPTIMIZATION AT TARAKAN BLOCK .....	825
<i>Fatih, I. A; Rizqiardhina, A; Lamis, N. M; Rahman, A; Sukotrihadiyono, T.</i>	
PORE FLOW INDICATOR AS NEW QUANTITATIVE APPROACH FOR ROCK TYPING IN HETEROGENEOUS RESERVOIR, MAIN-MASSIVE FORMATION, OFFSHORE NORTH WEST JAVA .....	832
<i>Saputra, L. I; Reza, M.</i>	
INTEGRATED RESERVOIR STUDY FOR BETTER PREDICTION OF T FIELD .....	846
<i>Andriyadi, H; Firmanto, T; Adachi, Y; Widianoro, P. S; Zulfa, A.</i>	

## **PETROLEUM TECHNOLOGY**

A PARADIGM CHANGING ON SURVEILLANCE THRU VIRTUAL WELL TEST IMPLEMENTATION .....	855
<i>Yogasugama, M. A; Susanto, I.</i>	
MACHINE LEARNING APPROACH IN IDENTIFYING WELLBORE INTEGRITY ISSUE FROM DRILLING REPORTS IN MAHANDINI FIELD.....	863
<i>Wardana, R. S; Afriyanto, R; Nasution, D. S.</i>	
FUZZY LOGIC AND DIGITAL CONCEPT FOR ESTIMATION OF OIL AND GAS DEVELOPMENT .....	870
<i>Nugraha, C; Jamil, K; Lebang, Y. T.</i>	
DIGITAL TRANSFORMATION OF ENGINEERING INFORMATION FOR PROJECTS AND OPERATION & MAINTENANCE .....	881
<i>Howarth, R.</i>	
DIGITAL TRANSFORMATION – SIMPLIFY AND STANDARDIZATION COMPANY PROCESSES, DRIVE EFFICIENCY AND IMPACTING BUSINESS PROCESSES.....	892
<i>Aji, A. Z. S.</i>	

## **STUDENT GEOSCIENCE (2)**

APPLICATION OF TRAVELTIME TOMOGRAPHY AND KIRCHHOFF MIGRATION METHODS TO IMPROVE THE SEISMIC CROSS-SECTION RESOLUTION ON 2D LAND SEISMIC DATA .....	900
<i>Lestari, H; Anas, N. A; Ariansyah, M. R; Aswad, S; Winarto, H.</i>	

QUANTITATIVE INTERPRETATION: A NOVEL APPROACH USING SPECTRAL TREND ATTRIBUTE ANALYSIS AND ITERATIVE WIENER FILTER IN CHARACTERIZING CARBONATE RESERVOIR ON WEST JAVA BASIN .....	911
<i>Taufik, M. H; Utami, A. P; Wichaksana, B. A; Nuraeni, F; Reza, M.</i>	

SIMULTANEOUS JOINT INVERSION OF SEISMIC, MAGNETOTELLURIC AND GRAVITY IN A SUB - VOLCANIC RESERVOIR .....	922
<i>Hibatullah, M. I; Putra, M. I. R; Akbar, F. S; Warnana, D. D; Aisha, F. Y.</i>	

OPTIMIZATION OF SEISMIC ACQUISITION DESIGN USING OCEAN BOTTOM NODES AT 'MHS' FIELD .....	931
<i>Syamri, M. H; Firdaus, R; Rasimeng, S; Susanto, A. A.</i>	

## **EXPLORATION - KALIMANTAN - 2**

UNLOCKING CENTRAL MANDU GAS POTENTIAL BY “GAS STRIPPED OIL HYPOTHESIS” .....	945
<i>Anshariy, A; Herbet, R; Irawan, A; Hermawan, Hayati, I. F.</i>	

BIOGENIC AND THERMOGENIC HYDROCARBON PLAY IN THE BALA-BALAKANG AREA, NORTH MAKASSAR BASIN, MAKASSAR STRAITS .....	963
<i>Roniwibowo, A; Ady, D. Y. B; Pireno, G. E; Gunarto, M. O.</i>	

THE NEOGENE DEFORMATION, UNCONFORMITY SURFACES AND UPLIFT FEATURES IN DELTA TECTONICS, TARAKAN SUB-BASIN .....	980
<i>Maulin, H. B; Sapiie, B; Gunawan, I.</i>	

GENERATING COMPLEX FAULT INTERPRETATION IN A STRIKE-SLIP AREA AND ITS IMPACT ON PROSPECT EVALUATION, KUTEI BASIN .....	993
<i>Haryanto, H; Lubis, I; Gultom, L. P; Satria, A.</i>	

## **SEDIMENTOLOGY & STRATIGRAPHY**

SCALING RELATIONSHIP OF SYN-RIFT ALLUVIAL-FLUVIAL CHANNEL SYSTEM USING OUTCROP ANALOGUE: IMPLICATION AND PREDICTION FOR PALEOGENE RESERVOIR GEOBODY AND MODELING IN THE WESTERN SUNDALAND .....	1007
<i>Taufani, L; Fardiansyah, I; Harishidayat, D; Wibowo, A.</i>	

UNDERSTANDING SEAFLOOR AND RECENT SEISMIC ARCHITECTURES TO DEPOSITIONAL MODELS FOR DEEPWATER EXPLORATION IN THE NORTH SUMATRA BASIN, OFFSHORE.....	1020
<i>Hakim, F; Sibarani, F; Syaiful, M.</i>	

THE STRATIGRAPHY OF A LACUSTRINE ASSOCIATED RESERVOIR IN THE BELUT FORMATION, BLOCK B, WEST NATUNA BASIN .....	1035
<i>Sihombing, E. H; Indra, Y; Waworuntu, R. D; Priwastono, D.</i>	

INTEGRATED APPROACH TO A ROBUST PALEO GEOGRAPHIC MODEL A CASE STUDY IN THE BASE OF MUDA X FIELD, WEST NATUNA BASIN .....	1067
<i>Simabrata, H; Indra, Y; Permana, B. R; Waworuntu, R. D; Arif, B.</i>	

## **PRODUCTION OPTIMIZATION (2)**

- SUCCESSFUL APPLICATION OF ACIDIZING SCALE REMOVAL FOR UNLOCKING RESERVES AND PRODUCTION IMPROVEMENT: CASE STUDIES IN PECIKO..... 1082  
*Gunawan, G; Nawangsari, S; Rahman, R.*
- OPTIMIZATION OF AN INTEGRATED FIELD DEVELOPMENT PLAN – A CASE STUDY OF A GAS FIELD WITH UNPREDICTED PROLIFIC WATER PRODUCTION ..... 1095  
*Kamal, S; Nurrahman, F; Pujasmadi, B; Budiyo*
- PULSED-NEUTRON DATA AS A TOOL FOR WATER SOURCE IDENTIFICATION – CASE EXAMPLES ..... 1108  
*Himawan, G. R; Srikampha, B.*
- INTEGRATED APPROACH TO REDUCE EXCESSIVE WATER PRODUCTION WHILE EXPLOITING OIL BY WATER SHUT-OFF TREATMENTS IN CARBONATE MATURE FIELD..... 1116  
*Bernadi, B; Sarah, Reksahutama, A; Silalahi, E; Riksa, A. P.*
- SUCCESS STORY OF THE FIRST ESP-GAS LIFT HYBRID IN SOUTH SUMATRA BLOCK - IB-00XX CASE STUDY ..... 1146  
*Arnold, R; Maulana, D; Kurniawan, C; Muklas, A. N.*

## **DRILLING AND COMPLETION (2)**

- 3.4 DAYS - EVOLUTION OF THE FASTEST DEVELOPMENT WELLS IN MAHAKAM ..... 1155  
*Maulana, M. D; Setiohadi, Handoko, A. I; Sugiarto, S; Agirawan, C.*
- SUCCESSFUL APPLICATION OF COMPREHENSIVE BHA TENDENCIES ANALYSIS AND NOVEL FIT-FOR-PURPOSE REAL TIME SURVEY TOOL FOR DRILLING EXPLORATION WELL IN SOUTH SUMATRA ..... 1170  
*Hedriawan, A. S; Putra, E. M. F; Kurniawan, E; Jumsa, M. R; Mulia, Y. D.*
- SUCCESSFUL WELL PLACEMENT IN MULTILAYER SANDSTONE ACHIEVING MAXIMUM RESERVOIR EXPOSURE..... 1186  
*Aip, M; Ernando, Z; Ferdiana, W; Othman, T. R. T; Nugroho, C.*
- SUCCESSFUL COMPREHENSIVE-UNCONVENTIONAL SOLUTION TO BYPASS SOLID/LCM PLUGGING IN HORIZONTAL SCREEN COMPLETION..... 1197  
*Ferdian, A; Abadi, W. G; Harahap, A. E; Farinia, H; Hutagalung, M. J.*
- MECHANICAL EARTH MODEL WITH UNIAXIAL CORE VALIDATION FROM HPHT EXPLORATION FIELD IN NORTH SUMATRA..... 1208  
*Brata, R; Mahardi, M. Y; Anis, A. S. L.*

## **FACILITY OPTIMIZATION & PRODUCTION INTEGRITY (2)**

- ESTABLISHMENT OF FIRST CORROSION TESTING LAB FOR EXTREME SOUR CONDITIONS IN INDONESIA..... 1230  
*Astari, G; Widyanto, B.*
- FSO CARGO TANK INSPECTION WITH DRONE, A LESSON LEARNED FOR FUTURE IMPLEMENTATION ..... 1248  
*Subchan, M.*

HIGH ORDER POLYNOMIC COMPOSITION APPROACH FOR EARLY PUMP  
CAVITATION DETECTION TO MAXIMIZE HEAVY OIL FLOW PRODUCTION ..... 1260  
*Yudhaprasetya, A. B; Nugroho, A; Vaizal, M. F; Rustandi, A; Sifai, A. M.*

LOAD SHEDDING IMPROVEMENT STUDY – HANDIL FIELD ..... 1269  
*Setiawan, N; Sia, S; Buwana, H.-N.*

### **STUDENT ENGINEERING (2)**

SURFACTANT-POLYMER COREFLOODING: A COMPARATIVE ANALYSIS OF  
INJECTION SCHEME FOR “K” FIELD IN RIAU ..... 1280  
*Woe, K; Setiati, R; Alli, Y. F.*

### **VOLUME 3**

A NEW INNOVATION OF RECYCLING PRODUCED SAND AS PRECURSOR FOR  
CHEMICALLY ASSISTED SAND CONSOLIDATION ..... 1290  
*Herianto, Alif, M. E; Chandra, S; Nugroho, Y. A; Widagdo, J. A.*

INDONESIAN LOCAL BIOPOLYMER FOR ENHANCED OIL RECOVERY FROM SEEDS OF  
KLUWIH..... 1300  
*Gajah, G; Susantry, Arifin, I; Ramas, E. W; Hidayat, R.*

### **SEISMIC INTERPRETATION**

ACOUSTIC IMPEDANCE ANALYSIS AS AN INDIRECT APPROACH IN IDENTIFYING  
UN-SWEPT OIL ZONE CASE STUDY: KAIS CARBONATE RESERVOIR THE WALIO  
FIELD, SALAWATI BASIN ..... 1311  
*Putri, Y. W; Silalahi, E; Suseno, W. A; Sitingjak, R; Zahnurianto, S.*

FACIES AND STRATIGRAPHIC CONTROLS ON VELOCITY ANOMALIES IN THE NORTH  
MADURA PLATFORM, OFFSHORE EAST JAVA BASIN ..... 1330  
*Darmawan, F. H; Mustaffa, S. B; Wijaya, A. K; Juliansyah, M. N; Kaeng, G; Prabawanto, D.  
B.*

REVEAL THE VELOCITY ANOMALIES IN COMPLEX OVERBURDEN AND ENHANCED  
THE IMAGING THROUGH SHALLOW GAS: A CASE STUDY IN SISINUBI MAHAKAM,  
INDONESIA ..... 1340  
*Astuti, A; Kristomo, Y; Lim, B. J; Satria, G; Anggriani, N.*

### **RESERVOIR EVALUATION (2)**

INCREMENTAL RESERVES CALCULATION METHOD FOR HYDRAULIC FRACTURING  
CANDIDATE SCREENING ..... 1346  
*Senoputra, R; Sianturi, J; Wulandari, T.*

PERMEABILITY ANISOTROPY EFFECT IN RESERVOIR CHARACTERIZATION: NEW  
ROCK TYPING APPROACH ..... 1357  
*Irawan, D; Wihdany, F. I; Idea, K.*

INTEGRATED APPROACH TO OVERCOME MARGINAL FIELD CHALLENGES AND  
EXTEND THE FIELD LIFE..... 1371  
*Maridhona, H; Al Harthy, M; Al-Badi, A. M; Al Balushi, A.*

GAS MATERIAL BALANCE ANALYSIS FROM THE EARLY TO THE LATE TIME  
PRODUCTION OF T FIELD..... 1381  
*Widiantoro, P. S; Firmanto, T; Adachi, Y; Andriyadi, H; Dwikyriza, M.*

INTEGRATED DYNAMIC MODEL SIMULATION FOR MULTI LAYER-PARTIALLY  
LEAKING FAULT GAS RESERVOIRS: UNLOCKING WEST STUPA POTENTIAL, STUPA  
FIELD SOUTH MAHAKAM..... 1401  
*Ashfahani, A. S; Widjayanto, B; Endarto, W.*

### **EOR - ENHANCE OIL RECOVERY**

BIO-SURFACTANT INJECTION FIELD TRIALS AT VOLCANIC FORMATION IN FIELD M  
WEST JAVA ..... 1417  
*Ariadji, T; Rachmadi, H; Adam, T. B; Sasongko, S. Y, Nugroho, R.*

NEW INNOVATION USING SODIUM LIGNOSULFONATE SURFACTANT SYNTHESIZED  
FROM BAGASSE TO ENHANCED OIL RECOVERY FOR LIGHT CRUDE OIL..... 1431  
*Setiati, R; Siregar, S; Marhaendrajana, T; Wahyuningrum, D; Annisa, A. F.*

RESERVOIR REDEVELOPMENT BY CO2 INJECTION USING COMPOSITIONAL MODEL  
SIMULATION IN CARBONATE OILFIELD..... 1440  
*Halim, A; Hadi, R. H.*

STEAM INJECTION HUFF AND PUFF USING KEY WELL IDENTIFICATION METHOD IN  
THE BATANG FIELD ..... 1461  
*Nugraha, F; Winant, R; Zaelani, B; Massewa, D. A; Rasyid, I. F.*

TRACER STREAMLINE AND ITS BENEFIT FOR RE-EVALUATION AND RE-DESIGN  
WATERFLOOD PATTERN BY INTRODUCING A CYCLIC WATER INJECTION SCHEME..... 1481  
*Putra, D; Mursyidah, Futur, L.*

### **INVESTING & SUSTAINABLE DEVELOPMENT**

CASE STUDY OF P & A PLANNING IN OFFSHORE WELLS WITH WELL INTEGRITY  
ISSUES DUE TO SUBSIDENCE IN ONWJ AREA..... 1498  
*Wijaya, B. R; Sajjad, F; Prasetyo, A; Naja, S; Chandra, S.*

USING ISRS9 FOR DETERMINING AND MEASURING ORGANIZATIONAL  
SUSTAINABLE DEVELOPMENT INITIATIVES ..... 1513  
*Roos, E. K.*

GROSS SPLIT PSC A GAME CHANGER IN LOWER FOR LONGER SCENARIO  
..... 1523  
*Pandey, P; Chopra, P.*

ACHIEVING SUSTAINABLE OIL & GAS OPERATIONS: A STRATEGY TO MEET  
MATURE SUSTAINABILITY PERFORMANCE..... 1531  
*Cahyono, B. N.*

PROJECT MANAGEMENT OF OIL & GAS BLOCK TRANSFER : CASE STUDY MH BLOCK OF PLANNING & IMPLEMENTATION OF SMOOTH OPERATION TRANSFER FROM TT TO PERTAMINA .....	1547
<i>Halim, A.</i>	

### **PROJECT MANAGEMENT**

UPSTREAM OIL AND GAS DEVELOPMENT PROJECTS IN INDONESIA: A PROJECT RISK ANALYSIS BASED ON HISTORICAL DATA FROM 2015 TO 2018 .....	1557
<i>Dewanto, G. D. P; Sihombing, A.</i>	

IMPROVING PROJECT COST FORECAST ACCURACY BY INTEGRATED COST MANAGEMENT APPROACH .....	1564
<i>Damayanti, R. V; Maulidiana, M; Hanum, N.</i>	

THE IMPORTANCE OF BROWNFIELD ACTIVITIES FOR A SUSTAINABLE MARGINAL FIELD OPERATION .....	1574
<i>Boondao, I; Chimalakonda, S. R.</i>	

### **STUDENT GEOSCIENCE (3)**

GEOCHEMICAL CHARACTERISTICS OF MIGRATED HYDROCARBON IN BONE BASIN, BONE GULF, SOUTH OF SULAWESI AND IT'S IMPLICATION TO PETROLUEM SYSTEM.....	1579
<i>Dewi, V. T; Pusparini, W; Taufik, F; Ilmi, N. N; Gunawan, A.</i>	

MAPPING DISTRIBUTION OF SANDSTONE AND SEISMIC MULTI-ATTRIBUTE ANALYSIS USING LINEAR REGRESSION METHOD IN THE "RMS" FIELD, SOUTH SUMATRA BASIN .....	1592
<i>Armiliany, C; Saragih, R. M; Sulaksono, A. A; Mulyatno, B. S; Dewanto, O.</i>	

SUBSURFACE STRUCTURE INTERPRETATION OF EASTERN SOUTH SERAYU BASIN USING GGMPLUS (V.2013) GRAVITY DATA ANALYSIS.....	1616
<i>Handayani, N. T; Sudarmaji, Nukman, M.</i>	

THE SEDIMENTATION DYNAMICS AND ITS IMPLICATION FOR HEAVY OIL MINING IN "BELIDI" HIGH, SOUTH SUMATERA BASIN .....	1625
<i>Muhamad, A. M; Asra, D. S; Suratno, C. W; Putra, M. R. R.</i>	

THE ORGANIC GEOCHEMISTRY OF OIL SHALE : POTENTIAL SOURCE ROCK OF GALUGUR UNIT IN KAPUR IX INTRAMONTANE BASIN, WEST SUMATRA .....	1640
<i>Rahmola, W. R. P; Alvera, C; Syafri, I; Winantris, Suwarna, N.</i>	

### **FUTURE EXPLORATION**

GIANT FIELDS OF INDONESIA: PLAY TYPES, GEOLOGIC FACTORS, AND PROSPECTIVITIES OF FUTURE GIANT FIELDS .....	1656
<i>Satyana, A. H.</i>	

LESS-EXPLORED OLIGOCENE SYN-RIFT SEDIMENT IN THE WESTERN BOUNDARY OF CENTRAL SUMATERA BASIN.....	1689
<i>Setiawan, H.</i>	

POTENTIAL HYDROCARBON AT THE FORELAND OF LENGGURU FOLDBELT – ARGUNI BAY, BINTUNI BASIN.....	1700
<i>Gunarto, M; Pireno, G. E; Roniwibowo, A; Boslough, B.</i>	

PLAY BASED EVALUATION OF DEEPWATER TIMOR SEA FOLD – THRUST BELT: AN ASSESSMENT FOR THE FRONTIER AREA.....	1716
<i>Pratiwi, R; Wiyono, J; Nugraha, F; Fakhri, M. K; Suwarta</i>	

### **CARBONATE RESERVOIR**

INTEGRATED CARBONATE NON-MATRIX CHARACTERIZATION IN BANYU URIP FIELD.....	1729
<i>Ahdyar, L. O; Sekti, R. P; Mohammad, S. R; Fernandez-Ibanez, F; Moore, P. J.</i>	

A DISTINCTIVE ROCK TYPE CLASSIFICATION BASED ON ACOUSTIC IMPEDANCE INVERSION IN THE BATURAJA CARBONATE OIL RESERVOIR, ZULU FIELD, PHE ONWJ.....	1746
<i>Nugroho, A; Sakti, C; Retnowati, E; Sabbeq, S; Nurzaman, Z.</i>	

CHARACTERIZATION OF MASSIVE TIGHT GAS RESERVOIR: UNLOCKING THE GREATER KARENDAN POTENTIAL .....	1761
<i>Laya, K. P; Ramadhan, D; Rizkiaputra, R; Goesmiyarso, S; Subekti, A.</i>	

### **MATURE FIELD (2)**

OPTIMIZING PRODUCTION PERFORMANCE WITH MANAGED HORIZONTAL WELL PLACEMENT FROM HIGH PERMEABILITY AND ACTIVE WATER DRIVE RESERVOIR IN MATURE OIL FIELD, CENTRAL SUMATRA BASIN, INDONESIA .....	1776
<i>Jauhari, U; Syahputra, A; Sutyastomo, D; Rahman, A; Flodin, E.</i>	

RENEWED FIELD DEVELOPMENT PLAN FROM RECENTLY FOUND UNCERTAINTY IN SUNGAI GELAM FIELD, SOUTH SUMATRA BASIN, JAMBI.....	1784
<i>Rahadian, R.</i>	

NEW APPROACH TO DISCOVER AND PROVE PROSPECTIVE LAYERS AT MATURE FIELDS .....	1798
<i>Safiraldi, P. R; Nadeak, E; Baskoro, H. T; Sukotrihadiyono, T.</i>	

INCREASING PRODUCTION AND RESERVES BY IMPLEMENTING GOOD RESERVOIR MANAGEMENT IN PHE'S ASSET.....	1812
<i>Malik, K; Wijaya, R; Iriawan, A; Gemareksa, M. J.</i>	

### **HEALTH, SAFETY & ENVIRONMENTAL MANAGEMENT**

OPTIMATIZATION OF SOLVENT EXTRACTION PROCESS FOR OILY CONTAMINATED SOIL.....	1819
<i>Fitriyani, L.</i>	

THE APPLICATION OF HAZOP/LOPA STANDARDS TO ESTABLISH A COMPREHENSIVE PROCESS HAZARD ANALYSIS (PHA) AND UPDATE PROCESS SAFETY CRITICAL SAFEGUARDS DASHBOARD OF AGING HYDROCARBON PRODUCTION FACILITIES .....	1827
<i>Sejati, R. H. B; Narayana, I. G. B.</i>	

VENTING METHANE EMISSIONS MANAGEMENT APPROACH IN THE OIL & GAS SECTOR.....	1837
<i>Susanto, N; Coretti, A; Angala, R; Dagaz, A; Hassan, A.</i>	

IMPLEMENTATION OF SAKA DRONE SOLUTION (CASE STUDY: NATIONAL MARINE POLLUTION EXERCISE 2018) .....	1844
<i>Syahnur, Y; Saleh, E; Supriyadi, Y.</i>	

### **FACILITY OPERATION & OPTIMIZATION**

ROOT CAUSE ANALYSIS OF CENTRIFUGAL COMPRESSOR IMPELLER FAILURES .....	1856
<i>Sulistio, D. M. N; Purnama, F; Wiryolukito, S; Chandra, K.</i>	

PROCESS CONTROL IMPROVEMENT TO OPTIMIZE BANYU URIP PLANT RELIABILITY .....	1871
<i>Chairunissa, C; Harjanto, A. K.</i>	

SECURING LONG TERM 750 BOPD OLD RIMAU PRODUCTION THROUGH LANGKAP FLARE RECOVERY SYSTEM .....	1878
<i>Narso, Sharfan, N; Sukmana, I; Ariwibowo, B; Amijaya, W.</i>	

INSPECTION MEASURING POINT OPTIMIZATION ON PIPING SYSTEM AT PT. PERTAMINA HULU MAHAKAM (PHM) .....	1887
<i>Afrizayatman, D. F; Wibowo, F.</i>	

### **STUDENT ENGINEERING (3)**

WATER CONING CONTROL IN GAS WELL WITH STRONG WATER DRIVE MECHANISM RESERVOIR.....	1895
<i>Saputra, B. A; Retnoningsih, B. D; Widiantoro, P. S; Ramadhan, R.</i>	

CONCEPTUAL STUDY OF ANTHASENA: DONUT SHAPED SEMI-SUBMERSIBLE OFFSHORE DRILLING AND PRODUCTION PLATFORM TO EXPLOIT MARGINAL FIELD IN EAST INDONESIA .....	1904
<i>Wara, A. D; Pratama, P. D; Ananto, A. B; Riyanto, R. D.</i>	

INVESTIGATION OF WATER SHUT OFF (WSO) EFFECTIVITY USING POLYMER CROSS-LINKER IN THE NEAR WELLBORE .....	1914
<i>Ardiansyah, M. I; Putra, D. F.</i>	

### **POSTER**

MANAGING THE SOCIAL ASPECT OF TANGGUH'S SEISMIC PROGRAM, THE FIRST AND LARGEST OBN SURVEY IN INDONESIA .....	1921
<i>Suryanto, D; Prastowo, H; Poluakan, A; Kurniawan, A.</i>	

## **VOLUME 4**

THE IMPORTANCE OF CARRYING OUT SUSTAINABLE COMMUNITY DEVELOPMENT PROGRAMS AS TOOLS TO OBTAIN SOCIAL LICENSE TO OPERATE IN THE EARLY STAGES OF OIL & GAS OPERATIONS .....	1934
<i>Rijaluddin, D.</i>	



COMMUNITY EMPOWERMENT MODEL THROUGH COMMUNITY-BASED TOURISM DEVELOPMENT WITH SDGS APPROACH IN SELANGAN VILLAGE, BONTANG CITY, EAST KALIMANTAN PROVINCE .....	1943
<i>Sunaryo, B; Yudistyana, R; Wibisono, B. E; Putri, D. T.</i>	
LESSONS LEARNED FROM ADOPTING SUSTAINABILITY ASPECTS FOR GAS DEVELOPMENT PROJECT.....	1952
<i>Prayascitra, A; Prabowo, H. E; Asmoro, T. H.</i>	
IS INCREASED INVESTMENT IN LNG CAPACITY A POSITIVE OR NEGATIVE TREND FOR A GLOBAL LOW CARBON ENERGY TRANSITION?.....	1961
<i>Irawan, C.</i>	
“EAT WHAT WE GROW, GROW WHAT WE EAT”: CREATING A SELF-RELIANT COMMUNITY THROUGH AGRICULTURAL PROGRAMS.....	1971
<i>Savitri, N. N; Nurjamroji</i>	
HAMMERING TOOL APPLICATION FOR SHIFTING OPEN FORMATION ISOLATION VALVE SEATED IN THE HI-ANGLE SUBSEA WELL IN OFFSHORE BALI - INDONESIA .....	1981
<i>Kresnawan, I. B. A; Aoki, T; Widiantoro, P. S; Purwitaningtyas, I. M; Artha, P. B.</i>	
USING A WATER FLOW LOG TO IDENTIFY FLOW BEHAVIOR IN A HORIZONTAL WELL AND OVERCOME PRODUCTION IMPAIRMENT .....	1987
<i>Abadi, W. G; Ferdian, A; Farinia, H. H; Kartoatmodjo, I. H. B; Harahap, A. E.</i>	
INTEGRATED RISK ASSESSMENT APPROACH HELPED IN SUCCESSFUL DRILLING IN A HORIZONTAL WELL IN COMPLEX GEOLOGICAL SETTINGS –A CASE STUDY FROM OFFSHORE SOUTH EAST ASIA .....	1994
<i>Chatterjee, A; Ghosh, A.</i>	
APPLICATION OF DRAG REDUCER IN BEKAPAI AND SOUTH MAHAKAM – A PROVEN TECHNOLOGY TO OPTIMIZE PRODUCTION IN MAHAKAM PSC.....	1999
<i>Wicaksono, S. K. H; Irawan, A; Muhazir, Y; Amar, R. A; Hayati, I. F.</i>	
ESTIMATION OF PERMEABILITY FROM MULTI RATE PRODUCTION LOGGING IN MULTILAYER RESERVOIRS: A CASE STUDY FOR GAS CONDENSATE RESERVOIR .....	2012
<i>Irawan, A; Rushatmanto, M.</i>	
CHELATING ACIDIZING TREATMENT-EXTREME ACID EXPOSURE IN ESP WELL-CASE STUDY XY-302.....	2019
<i>Muklas, A. N; Amru, K; Kusuma, H; Afandi, R. G.</i>	
INTERNAL CHECK VALVE INSTALLATION TO ELIMINATE WELL INTEGRITY ISSUE .....	2027
<i>Prasodjo, I; Gandakusuma, L; Aji, N. R. A.</i>	
RESERVOIR MANAGEMENT FROM REVIEWING WATERFLOOD PERFORMANCE TO FUTURE DEVELOPMENT, CASE STUDY: TPN FIELD.....	2041
<i>Darmawan, B; Azhar, A. R.</i>	
REVIVING MATURE FIELD IN SOUTH OMAN SALT BASIN, SULTANATE OF OMAN.....	2054
<i>Al-Badi, A; Al-Badi, M.</i>	
DEALING THE PRODUCTION CRISIS BY EMERGENT ADDITIONAL TECHNIQUES FOR PREDICTING HIGHLY HIGH HYDROCARBON ZONES IN MATURE FIELD, SANGA SANGA AREA, KUTEI BASIN, INDONESIA .....	2061
<i>Riadi, R. S; Permana, R. C; Apranda, Y. R; Kusumah, G. S. H; Irhamsyah, F. M.</i>	

INDONESIAN DEEP-WATER PETROLEUM EXPLORATION AND PRODUCTION - ECONOMIC AND TECHNOLOGY PERSPECTIVE.....	2069
<i>Marbun, B. T. H; Sinaga, S. Z; Pande, B.</i>	
A CASE STUDY OF HYDRAULIC FRACTURING STIMULATION AS PROVEN NOVEL TREATMENT IN REVEALING JABUNG NORTH EAST BETARA (NEB) OIL CAPACITY.....	2080
<i>Wibawa, I. G. A. A. S; Syam, B; Saputra, H. N; Dare, D. D; Sumadi, A. P. A.</i>	
DATA ANALYTICS FOR IMPROVING OFFLOAD WELLS SELECTION IN TUNU FIELD.....	2091
<i>Andiani, D. D; Kusuma, D. H.</i>	
OPTIMIZING WATER-CUT AND CRUDE TRAVELLING TIME DUE TO OIL-WATER SLUG PHENOMENON FOR HIGH VISCOUS CRUDE FLOW TO DEVELOP ZULU FIELD OPERATING ENVELOPE.....	2107
<i>Panaiputra, H. G; Kusuma, D. N; Nugroho, W. A; Sajjad, F; Hartawan, I. B.</i>	
ROV TOOL INNOVATION FOR UNDERWATER VALVE PLUG REMOVAL.....	2113
<i>Kusumo, P. T; Ariadi, P; Herrisman</i>	
COMPLETION MANAGEMENT SYSTEM FOR SMOOTH PROJECT COMMISSIONING AND START-UP .....	2121
<i>Mulyanto, J; Silvia, Y.</i>	
INTEGRATED CONTROL AND SAFETY SYSTEM TO FACILITATE FASTER RECOVERY POST BLACKOUT SHUTDOWN FOR AGING FACILITIES IN THE HANDIL FIELD.....	2130
<i>Mardin, M; Setiawan, N; Feliska, A; Hermawan, A.</i>	
RSS POWERDRIVE ORBIT : RECORDS IN CHALLENGING MAHAKAM SWAMP DIRECTIONAL WELL .....	2140
<i>Handoko, A. I; Saputra, R; Maulana, M. D; Wijayanto, T; Taufik, E.</i>	
STRATAL ELEMENTS OF SAND BODY GEOMETRY IN THE TANJUNG FORMATION - SOUTHERN BARITO BASIN, KALIMANTAN .....	2151
<i>Naibaho, E; Mayr, A; Yusriani, A.</i>	
NEW BIOMARKER EVIDENCES FOR MESOZOIC PETROLEUM SYSTEMS IN THE UNEXPLORED TOKALA AREA, EASTERN SULAWESI .....	2173
<i>Kurniawan, A. P; Mardianza, A; Firman, I; Fajar, M; Fatahillah</i>	
POSSIBLE MESOZOIC GRABEN IN THE KLAMONO AREA BASED ON NEW GEOLOGICAL FIELD MAPPING AND 3D SEISMIC DATA .....	2187
<i>Kurniawan, A. P; Bahesti, F; Hadi, S. M; Yugas, F; Yuliandri, I.</i>	
KUALAKURUN FRONTIER EXPLORATION: SURFACE RECONNAISSANCE ON PETROLEUM PROSPECTIVITY IN ONSHORE CENTRAL KALIMANTAN AREA.....	2201
<i>Amir, V; Tasrianto, R; Indrawan, R; Witts, D.</i>	
ENHANCE FAULTS INTERPRETATION IN WEST OFFSHORE MADURA USING BOUNDARY ELEMENT AND SLIP TENDENCY ANALYSIS.....	2213
<i>Fauzi, G; Khadafi, Akbar, A; Freeman, B; Sipayung, R. S.</i>	
NEW PERSPECTIVES ON SHALE GAS POTENTIAL IN UPPER KUTAI BASIN, EAST BORNEO, INDONESIA .....	2228
<i>Iskandar, Y; Novelyarisyanti, N; Putri, E. C. A.</i>	

3D POROSITY MODEL OF PARIGI AND PRE-PARIGI CARBONATE USING ACOUSTIC IMPEDANCE VOLUME IN LL FIELD, OFFSHORE NORTH WEST JAVA.....	2240
<i>Husnil, D. A; Normansyah</i>	
SUBSIDENCE HISTORY OF SOUTH PALEMBANG SUB-BASIN: PALEOGENE INTRA-UPLIFT DETECTED, MULTI-TECTONIC SUBSIDENCE SIGNATURE, AND ITS IMPLICATION.....	2251
<i>Agustin, M. V; Husein, S; Akmaluddin, Darmawan, A; Pribadi, T. A.</i>	
FACIES CLASSIFICATION USING STOCHASTIC INVERSION METHOD FOR CARBONATE IN PANGKAH, NORTH EAST JAVA BASIN, INDONESIA.....	2266
<i>Kusuma, D; Dasa, F; Sadat, Gultom, L.</i>	
REMAPPING FACIES ARCHITECTURE OF EARLY MIOCENE CARBONATE BATURAJA FORMATION BASED ON CORE ANALYSIS, STATIC DISTRIBUTION, AND PRODUCTION DATA IN RG FIELD, OFFSHORE NORTHWEST JAVA.....	2274
<i>Ginanjjar, A; Wasonoaji, A; Antariksa, Z. N. A; Reza, M; Setiawan, P. K. D.</i>	
PALYNOSTRATIGRAPHY AND PALEOENVIRONMENT OF THE TRIASSIC KANIKEH FORMATION, SERAM ISLAND, INDONESIA.....	2285
<i>Chandra, B. Y; Kusworo, A.</i>	
COMPARISON OF VARIOUS DEPTH CONVERSION TECHNIQUES IN A COMPLEX FORELAND THRUST BELT SETTING: CASE STUDY IN THE NORTH SERAM BASIN, BANDA ARC.....	2295
<i>Juliansyah, M. N; Putra, B. P; Donurizki, A.</i>	
RESERVOIR CHARACTERIZATION USING A MERGED AND REPROCESSED 3D SEISMIC TO OPEN UP NEW OPPORTUNITY BETWEEN EXISTING FIELD IN BARITO BASIN INDONESIA.....	2312
<i>Nurhasan, A; Cakra, Y. I; Ramdan, D; Ariadmana, Y; Herawati, N.</i>	
SISI NUBI SHALLOW GAS METHODOLOGY: AN INTEGRATED STUDY FOR FUTURE FIELD DEVELOPMENT.....	2323
<i>Hidayat, R; Suardiputra, A; Hermawan, F-Hayati, I.</i>	
UNDERSTANDING DEPOSITIONAL SYSTEM, RESERVOIR QUALITY AND DISTRIBUTION IN SOUTH SUMATERA BASIN DEVELOPMENT FIELD USING INTEGRATED WELL DATA.....	2330
<i>Mamesah, J; Handoyo, A; Siburian, P; Juandi, D; Adeyosfi, M.</i>	
INTEGRATED SEISMIC ATTRIBUTES AND AVO ANALYSIS IN THE FAULTS AND HYDROCARBON LEAKAGE EXTRACTION.....	2355
<i>Prasetyo, R. D; Harishidayat, D.</i>	
LOW-FREQUENCY DE-GHOSTING METHOD TO ENHANCE BASEMENT LAYER CONTINUITY IMAGE IN FOXTROT SOUTH EAST AREA, NORTH WEST JAVA SEA.....	2362
<i>Andika, R. B; Hudzaifah, Martian, D; Mahmud, N; Sadono, S.</i>	
HYBRID 3D MARINE TOWED-STREAMERS AND OCEAN-BOTTOM NODES SURVEY – CHALLENGES AND SOLUTIONS FOR SEISMIC DATA PROCESSING AND IMAGING.....	2374
<i>Cheah, W. L; Joyce, W. L. M; Yu, E. H. R; Sazykin, A; Menzel-Jones, G.</i>	
ESTABLISHING NOVEL VIEWS ON RESERVOIR COMPARTMENTALIZATION UTILIZING SYSTEMATIC DATA-DRIVEN SEISMIC PROCESSING FRAMEWORKS.....	2383
<i>Alai, R; Mokhtar, M. A. B; Wang, J; Guo, Y; Suryana, E.</i>	

PALEO-ENVIRONMENT RECONSTRUCTION OF HALANG FORMATION AND ITS IMPLICATION FOR HYDROCARBON EXPLORATION IN CENTRAL JAVA AREA.....	2393
<i>Nainggolan, H. B.</i>	
SODIUM LIGNOSULFONATE INJECTION FROM PALM OIL RAW WASTE BUNCHES AS A FRONTIER EOR TECHNOLOGY IN THE DURI OIL FIELD: APPLICATION AND TREATMENT.....	2408
<i>Yogatama, N. C; Caroline, C. D; Johan, A; Christiani, V. I; Hidayatillah, A. S.</i>	
EFFECTS OF SHORT CYCLIC THERMAL STIMULATION ON OIL GAIN AND WATER CUT IN TWO AREAS IN X FIELD .....	2415
<i>Sofyan, T. M. A; Permatasari, I; Erfando, T; Fadly, S. Y; Hardiyanto</i>	
A STUDY CASE: COMPREHENSIVE ANALYSIS OF HYDRAULIC FRACTURING IN TIGHT RESERVOIR.....	2424
<i>Gumilar, R. S; Yusanto, S. B; Sativa, I. O.</i>	
OFFSHORE CNG (COMPRESSED NATURAL GAS) DISTRIBUTION USING PANDAWA BARGE COSELLE TO INCREASE INDONESIA'S DOMESTIC GAS LOGISTIC DEPLOYMENT .....	2441
<i>Ananto, A. B. S; Wara, A. D; Pratama, P. D.</i>	
IN-SITU COMBUSTION CHALLENGES AND OPPORTUNITIES IN TALANGAKAR FORMATION: ENHANCING PRODUCTION TO THE OPTIMUM VALUE.....	2448
<i>Muthasyabiha, S. R; Ustiawan, A. B; Salim, A. A. V; Hidayatunnisa, R.</i>	
THE COMPARATION OF TALANGAKAR FORMATION'S PROVENANCE CHARACTERISTICS IN JAMBI SUBBASIN AND SOUTH PALEMBANG SUBBASIN, SOUTH SUMATRA INDONESIA.....	2455
<i>Sasmita, D; Kalidasa, F. N; Al-Amin, M. H; Zelandi, M.</i>	
GEOCHEMISTRY OF GAS SEEPAGE OFFSHORE TIMOR-TANIMBAR, SOUTHERN MALUKU INDONESIA.....	2464
<i>Latupapua, D. K; Amijaya, D. H; Surjono, S. S.</i>	
INVESTIGATION COAL BED METHANE POTENTIAL BASED ON INTERGRATED CLEAT ANALYSIS AND COAL QUALITY; CASE STUDY IN MERAPI TIMUR, LAHAT DISTRICT, SOUTH SUMATRA .....	2468
<i>Immanuel, Y. P; Wicaksana, A. D. R; Saptia, B. M; Krestanu, A.</i>	
FACIES ANALYSIS AND DEPOSITIONAL ENVIRONMENT IN THE KIRANAI BLOCK OF TANJUNG FORMATION, BARITO, CENTRAL KALIMANTAN .....	2481
<i>Sukirman, Lestari, D. I; Utama, H. W; Rizki, A; Wiratama, K.</i>	
SIMULTANEOUS INVERSION ANALYSIS USING ROCK PHYSICS FOR CARBONATE RESERVOIR CHARACTERIZATION IN "OMICRON" FIELD KUJUNG I FORMATION, NORTH EAST JAVA BASIN .....	2489
<i>Annafi, L; Miarso, T.</i>	
OIL SEEPAGES FROM THRUSTED ANTICLINES; CARBONATES OF WONOCOLO AND BULU FORMATIONS, EAST JAVA BASIN .....	2498
<i>Elicia, R; Yunita, A; Rahmadani, U; Hutama, R. D; Widodo, B. T.</i>	
IDENTIFICATION OF THE INTERNAL DETAIL OF THE TIDAL SAND RIDGE RESERVOIR USING CORE DESCRIPTION IN THE MAIN INTERVAL OF THE UPPER CIBULAKAN FORMATION, CIPUNEGARA SUB-BASIN, OFFSHORE NORTH WEST JAVA.....	2510
<i>Ramadhan, R; Akbar, M. R. R; Rasyid, F. N; Azen, M. N. A; Setiawan, P. K. D.</i>	

IDENTIFICATION OF DISTRIBUTION SANDSTONE RESERVOIR ZONE AND HYDROCARBON FLUID USING EXTENDED ELASTIC IMPEDANCE (EEI) IN TALANG AKAR FORMATION AT AZZURA FIELD, NORTH WEST JAVA BASIN.....	2522
<i>Afsary, A. D; Susilo, A; Dwijatmiko, B; Alfianto, A. D.</i>	
RESERVOIR CHARACTERIZATION USING ACOUSTIC IMPEDANCE SEISMIC INVERSION METHOD AND SEISMIC ATTRIBUTE IN THE “RST” FIELD OF THE TARANAKI BASIN, NEW ZEALAND. ....	2533
<i>Ginting, H. B. R; Firmansyah, M; Ariansyah, M. R; Aswad, S; Siregar, D. R.</i>	
CHARACTER OF SEDIMENTOLOGY AND RESERVOIR IMPLICATION OF DEEP WATER SEDIMENTATION: THE HALANG FORMATION AS A VOLCANIC CLASTIC RESERVOIR ANALOGUE BASED ON OUTCROP AND THIN SECTION.....	2546
<i>Fahmi, B; Ramadhan, R; Hafidh, M; Disastra, D. A; Rahayu, D. M.</i>	
THE 2D MODELLING OF MAGNETOTELLURIC DATA USING IMPEDANCE TENSOR ROTATION BASED ON GEOELECTRICAL STRIKE VECTOR FOR OIL AND NATURAL GAS EXPLORATION IN THE “KAPRASIDA” AREA, SINGKAWANG BASIN, WEST BORNEO .....	2556
<i>Cancerio, C. R; Bounigeta, D. I; Hidayat</i>	
STUDY OF POTENTIAL HYDROCARBONS AND PETROLEUM SYSTEMS IN PAGUYANGAN AREA, NORTH SERAYU BASIN TO ANSWER CHALLENGES EXPLORATION IN THE INTRA-VOLCANIC BASIN IN BREBES REGENCY, CENTRAL JAVA PROVINCE.....	2563
<i>Zain, A; Irianto, A; Agastya, I. B. O; Kurniawan, R. R.</i>	

**Author Index**