



THE 4th INDONESIA INTERNATIONAL
GEOTHERMAL
CONVENTION & EXHIBITION 2016
10 - 12 August 2016
Jakarta Convention Center



PROGRAM BOOK

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Ministry of Energy & Mineral Resources
of the Republic of Indonesia

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Indonesian Geothermal Association

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TPC SCHEDULE INDONESIA INTERNATIONAL GEOTHERMAL CONVENTION AND EXHIBITION 2016

DAY 01 AUGUST 10, 2016 - KENARI ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
15:00 - 15:05						
INTRODUCTION						
1	15:05 - 15:25	GEN 03	University of Auckland	CAN NEW GEOTHERMAL REGULATION ENHANCE (TECHNICAL) INNOVATION AND PROMOTE THE GEOTHERMAL ROADMAP? CASE STUDIES FROM NZ & INDONESIA	Bart Marinus Johannes van Campen, Jim Lawless and Jim Randle, Surya Darma	b.vancampen@auckland.ac.nz; jlawless@clear.net.nz; jim.randle@hotmail.com
2	15:25 - 15:45	GEN 05	Asia Pacific Energy Research Centre (APEREC)	APEC REGION: A KEY PLAYER IN THE WORLD'S GEOTHERMAL DEVELOPMENT	Elvira Torres Gelindon	gelindon@aperc.ieee.or.jp
3	15:45 - 16:05	GEN 08	Gadjah Mada University	EARTHQUAKE RISK ZONE MAPPING BASED ON LOCAL SITE DYNAMIC CHARACTERISTICS IN DETERMINING THE POWER PLANT AREA, STUDY CASE GEDONGSONGO, UNGARAN CETRAL JAVA	Mahmuddin Yunus, Raditya Narendratama	mahmuddin.yunus26@gmail.com; radityanarendra.tama@gmail.com
4	16:05 - 16:25	GEN 07	Gadjah Mada University	IDENTIFICATION OF LANDSLIDE HIGH-RISK ZONES AT SALAK GEOTHERMAL FIELD, WEST JAVA	Bungsui Simarmata, Satrio Wicaksono, Wahyu Wilopo and Pri Utami	bungsui.simarmata@gmail.com; satriowicaksono@chevron.com; wwilopo@gmail.com; p.utami01@gmail.com
5	16:25 - 16:45	RM 04	Institut Pertanian Bogor	EFFECT OF COMPETENCY, MOTIVATION AND WORK SATISFACTION OF THE EMPLOYEE PERFORMANCE IN XYZ COMPANY	Rahmat Darmawan, Musa Hubeis and Dadang Sukandar	rahmatdarmawan02@yahoo.com
6	16:45 - 17:05	RM 02	Institute Technology of Bandung	USING P/Z METHOD TO CALCULATE OPTIMUM GEOTHERMAL PLANT LIFE TIME	Gugun Abdurrahman and Fitri Oktaviani P.	gugun.madara@gmail.com
7	17:05 - 17:25	RM 01	PT Pertamina Geothermal Energy	QUICK METHOD TO DETERMINE GEOTHERMAL WELLS CONNECTIVITY. CASE STUDY WELL LHD-23 AND WELL LHD-28	Baiq Lolla Riandari	baiq.riandari@pertamina.com
8	17:25 - 17:45	RM 03	PT Pertamina Geothermal Energy	RESERVOIR CHARACTERISTICS OF ULUBELU FIELD, CASE STUDY : SOUTHEAST SECTOR REINJECTION WELLS	Graniko Reza Pratama, Muhamad Bayu Saputra and Imam Muhammad Prasetyo	graniko.p@pertamina.com; Mb.Saputra@pertamina.com; imam.pras@pertamina.com

DAY 01 AUGUST 10, 2016 - MURAI ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
15:00 - 15:05						
INTRODUCTION						
1	15:05 - 15:25	SPEC 08	Padjadjaran University	THE INNOVATION OF GEOTOURISM AS A GEOTHERMAL EDUCATION TO DEVELOP GEOTHERMAL ENERGY IN TANGKUBAN PERAHU, BANDUNG, WEST JAVA	Dwiandaru Darmawan, Ibrahim Wibisono and Mohammad Reza Abdillah	dwiandarmawan@gmail.com; ibrahimwibi@gmail.com; mreza1245@gmail.com
2	15:25 - 15:45	SPEC 02	Padjadjaran University	ENHANCED GEOTHERMAL SYSTEM - HOT DRY ROCKS UTILIZATION FOR ENERGY CONSERVATION IN NON VOLCANIC AREAS	Hanifah Ainul Azkia and Agil Gemilang Ramadhan	hanifahaazkia@gmail.com; agil.agr@gmail.com
3	15:45 - 16:05	SPEC 03	Institut Teknologi Sepuluh Nopember	OPTIMIZATION SELECTION ALPHA VALUE ON INVERSION 1D OCCAM METHOD ON MAGNETOTELLURIC DATA	R. Aldi Kurnia Wijaya, Ayi Syaeful Bahri and Arif Darmawan	aldi.3.wijaya@gmail.com; aldi.wijaya12@mhs.geofisika.its.ac.id; nugrahabahri@gmail.com; arif.darmawan@elnusa.co.id
4	16:05 - 16:25	SPEC 05	Institute Technology of Bandung	POSSIBILITY OF ENHANCED GEOTHERMAL SYSTEM IN SOUTH SUMATERA BASIN	Rezki Naufan Hendrawan and Windi Anarta Draniswari	rezkinaufan@gmail.com; draniswari@gmail.com
5	16:25 - 16:45	SPEC 01	PT Patra Nusa Data	THERMALINA: INDONESIA GEOTHERMAL DATA, INFORMATION AND KNOWLEDGE MANAGEMENT SYSTEM	I Gusti Agung Hevy Julia Umbara, Triyono Hadi, Herry Gunawan and Agung Pamudji Widodo	hgunbara@patranusa.com; hgunawan@patranusa.com
6	16:45 - 17:05	SPEC 10	ELC-Electroconsult	FUTURE OF GEOTHERMAL PROCESS SIMULATIONS	Baran Kaypakoglu and Ugo Barbon	baransmail@gmail.com; baran.kaypakoglu@elc-electroconsult.com; ugo.barbon@elc-electroconsult.com
7	17:05 - 17:25	SPEC 09	Rocky Rose in Depth (RRD) Research Group in Partnership with Joel Hi-Tech in Dalian, China	ROCKY ROSE IN DEPTH- A PROMISING PROTOTYPE FOR THE CARBON DIOXIDE BASED ENHANCED GEOTHERMAL SYSTEM FOR POWER GENERATION	Kang Zhou and Hassan Jafari	13588030692@163.com; hassanjafari717@gmail.com

DAY 01 AUGUST 10, 2016 - MALEO ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
15:00 - 15:05						
INTRODUCTION						
1	15:05 - 15:25	ENG 22	Gadjah Mada University	HYBRID BINARY REGENERATIVE RANKINE CYCLE (HBRR): SIMULATION OF BINARY TECHNOLOGY IN LAHENDONG GEOTHERMAL FIELD WITH ECONOMICAL CONSIDERATION TO MAXIMIZE INDONESIA ELECTRICITY PRODUCTION	I Made Sathya Dananjaya, Adimas Prasetyaaji, Thya Laurencia Benedita Araujo and Himawan Tri Bayu Murti Petrus	i.made.s.d@mail.ugm.ac.id; adimas.prasetyaaji@mail.ugm.ac.id; thya.laurencia.b@mail.ugm.ac.id; bayupetrus@yahoo.co.id
2	15:25 - 15:45	ENG 26	Institute Technology of Bandung	TWO-PHASE FLOW: EVALUATION OF VOID FRACTION CORRELATIONS TO MODELING PRESSURE DROP DURING FLOWING IN GEOTHERMAL WELLS	Alifah Ratu Saelynda, Jantiur Situmorang, Rudy Martikno and Nenny Miryani Saptadji	saelyndaratu@yahoo.com; jantiur-situmorang@supreme-energy.com; rudy-martikno@supreme-energy.com; nenny_saptadji@geothermal.itb.ac.id
3	15:45 - 16:05	ENG 40	Institute Technology of Bandung	NATURAL STATE MODELLING GEOTHERMAL RESERVOIR AT KERINCI FIELD	Iki Hidayat, Sutopo and Heru Berian	ikihidayah@gmail.com; sutopo@tm.itb.ac.id; hb.pratama@gmail.com
4	16:05 - 16:25	ENG 23	Turboden Srl	OPTIMUM POWER PLANT SELECTION FOR HIGH ENTHALPY - HIGH NCG GEOTHERMAL SOURCE	David Paul, Joseph Bonafin and Rocco Altieri	david.paul@turboden.it
5	16:25 - 16:45	ENG 25	Akamigas Balongan	PRESSURE WINDOW ANALYSIS ON AERATED DRILLING IN GEOTHERMAL WELL	Ghifari Yoga Pradana and Rial	ghifariyoga@hotmail.com; rialdwimartasari@gmail.com
6	16:45 - 17:05	ENG 35	University of Auckland	NATURAL STATE MODELLING AND PRODUCTION SCENARIO SIMULATION OF ARJUNO-WELIRANG GEOTHERMAL FIELD	Ardha Kusuma Wardana, Mike O'Sullivan and John O'Sullivan	ardhageo@gmail.com; m.osullivan@auckland.ac.nz; jp.osullivan@auckland.ac.nz
7	17:05 - 17:25	ENG 41	Exergy S.p.A.	EXERGY GEOTHERMAL COMBINED CYCLE (EXGCC) POWER PLANT FOR LIQUID DOMINATED RESERVOIR IN THE ASIA-PACIFIC REGION	Dario Mulazzani	D.MULAZZANI@EXERGY.IT
8	17:25 - 17:45	ENG 38	GeothermEx, Inc.	COMPARING EXPLORATION DRILLING ALTERNATIVES FOR GEOTHERMAL PROJECTS	Logan Hackett, Stefano Scagliarini and Ann Robertson-Tait	lhackett2@slb.com; sscaglia@slb.com; Ann1@slb.com

DAY 01 AUGUST 10, 2016 - NURI 1 ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
	15:00 - 15:05			INTRODUCTION		
1	15:05 - 15:25	ES 56	Gadjah Mada University	COMPARISON STUDY OF VOLCANIC SEDIMENT FACIES, CASE STUDY: MERAPI 2010 ERUPTION	Maria Christine Rosaria and Lucas Donny Setijadji	marchristine56@gmail.com; lucasdonny@ugm.ac.id
2	15:25 - 15:45	ES 18	Padjadjaran University	CORRELATION BETWEEN ANALYSIS OF RESISTIVITY AND TEMPERATURE IN GEOTHERMAL SYSTEM BASED ON MODELLING MAGNETOTELLURIC METHOD (CASE STUDY: BANDA BARU GEOTHERMAL FIELD, MALUKU)	Ibrahim Paranggupito, Fatah Ramdhan and Nurul Trimulyo	ibrahim.p9@gmail.com; fatah.ramdhan@gmail.com; nurultrms@gmail.com
3	15:45 - 16:05	ES 66	Institut Teknologi Sumatera	DIGITAL ROCK PHYSICS MODELING OF POROSITY AND PERMEABILITY IN RESERVOIR SANDSTONE	Handoyo and Suharno	handoyo.geoph@itera.ac.id; suharnounila@gmail.com
4	16:05 - 16:25	ES 17	University of Lampung	ROCK ALTERATION DISTRIBUTION MAP, INTERPRETATION RESERVOIR AREA AND PREDICTION OF GEOTHERMAL RESERVOIR TEMPERATURE IN SEKINCAU, LAMPUNG	Evi Muharoroh, Aziz Fajar Setiawan and Yuda Bahtiar	evi.muharoroh1022@students.unila.ac.id; aziz.fajar1013@students.unila.ac.id; yuda.bahtiar1075@students.unila.ac.id
5	16:25 - 16:45	ES 57	Ana-min	CHARACTERISATION OF GEOTHERMAL SYSTEMS THROUGH FTIR MINERAL ANALYSIS OF DRILL CUTTINGS FOR EXPLORATION, APPRAISAL AND DEVELOPMENT	P. Joseph Hamilton, Carmen Harris and Sigrid Hillier	joseph.hamilton@ana-min.com; carmen.harris@ana-min.com; sigrid.hillier@ana-min.com
6	16:45 - 17:05	ES 47	Hitay Energy Holdings	CONCEPTUAL MODEL ASSESSMENT OF VAPOR CORE GEOTHERMAL SYSTEM FOR EXPLORATION; MT. BROMO CASE STUDY	Rizal Abiyudo and Julfi Hadi	Rizal.abiyudo@hitay.sg; Julfi.Hadi@hitay.sg
7	17:05 - 17:25	ES 40	Hitay Energy Holdings	APPLICATION OF MAGNETIC METHOD (REDUCED TO POLE, VERTICAL DERIVATIVE AND ANALYTIC SIGNAL) TO EXTRACT SHALLOW ALTERED ROCK INFORMATION. CASE STUDY: MOUNT LAMONGAN, EAST JAVA	Munaziyi	munaziyi@hitay.sg
8	17:25 - 17:45	ES 69	Chevron Geothermal Indonesia	APPLICATION OF EXPERIMENTAL DESIGN (ED) IN GEOTHERMAL GREENFIELD SIZE ASSESSMENT	Riza Pasikki	rizaggp@chevron.com

DAY 01 AUGUST 10, 2016 - NURI 2 ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
	15:00 - 15:05			INTRODUCTION		
1	15:05 - 15:25	ES 04	University of Lampung	RESISTIVITY METHOD TO HYDROTHERMAL SYSTEM ANALYZE IN WAY RATAI GEOTHERMAL FIELD	Widia Anggraeni and Bagas Setyadi	widiageofisika@gmail.com; bagasetyadi@live.com
2	15:25 - 15:45	ES 14	Diponegoro University	KALIULO MANIFESTATION STUDY BY GEOELECTRIC METHODS	Fitra Ramdhani, Ratih Rundri Utami, Galang Virgiawan, Brandan Tito Ramadhan, Dewi Mariyaningsih and Agus Setyawan	fitramdhani@st.fisika.undip.ac.id; ratihrundri@st.fisika.undip.ac.id; Galangvirgiawan12@gmail.com; brandantitoramadhan@st.fisika.undip.ac.id; dewienk.08@gmail.com; agus.setyawan@undip.ac.id
3	15:45 - 16:05	ES 37	PT Pertamina Geothermal Energy	INTEGRATED PETROLOGY ANALYSIS, A GUIDE TO SUCCESSFUL EXPLORATION IN HULULAIS FIELD	Vivi Dewi Mardiana Nusantara, Imam M Prasetyo, M Husni Thamrin and Eben E Siahaan	vivinusantara@pertamina.com; Imam.pras@pertamina.com; thamrin@pertamina.com; eesiahaan@pertamina.com
4	16:05 - 16:25	ES 10	Star Energy Geothermal (Wayang Windu) Ltd	LESSON LEARNED: MICRO EARTHQUAKE HYPOCENTER INTERPRETATION TO DEFINE PERMEABLE/IMPERMEABLE AREA IN HYDROTHERMAL GEOTHERMAL SYSTEM	Yosep Kusnadi	Yosep.kusnadi@starenergy.co.id
5	16:25 - 16:45	ES 07	Chevron Geothermal Salak	MICROEARTHQUAKES AND THEIR RELATIONSHIP TO TRACER-TEST RESULTS AT SALAK GEOTHERMAL FIELD, WEST JAVA, INDONESIA	Riki Irfan, Reka Tanuwidjaja, Tri Julinawati and Satrio Wicaksono	Riki.irfan@chevron.com; reka.tanuwidjaja@chevron.com; tri.julinawati@chevron.com; satriowicaksono@chevron.com;
6	16:45 - 17:05	ES 12	Research Center for Geotechnology - Indonesian Institute of Sciences (LIPI)	RADON MEASUREMENT AT PAPANDAYAN CRATER, WEST JAVA	Heri Nurohman, Hendra Bakti, Sri Indarto, Anita Yuliyanti, Andrie Alkautsar, Haryadi Permana and Eddy Z. Gaffar	heri.nurohman@lipi.go.id; heri.nurohman@yahoo.com; th_bakti@gmail.com; indartogeotek@gmail.com
7	17:05 - 17:25	ES 11	Schlumberger & Chevron Geothermal Salak	INTEGRATED GEOTHERMAL RESERVOIR EVALUATION USING BOREHOLE IMAGES, ACOUSTIC AND PRODUCTION DATA. A CASE STUDY FROM INDONESIA	Restio Brata, Glenn Golla, Rindu Intani Grahabakti, Emiliana Sulistyowati and Wilistanto Tarmidi	restio.brata@slb.com; Rindu.intani@chevron.com

DAY 01 AUGUST 10, 2016 - KAKATUA ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
INTRODUCTION						
1	15:05 - 15:25	ES 48	Institute Technology of Bandung	ESTIMATION OF HOT SPRINGS DISTRIBUTION AS MANIFESTATION ON OUTFLOW ZONE IN MOUNG LAWU AREA WITH KRIGGING METHOD	Saphira Anjani Suwanto, Theresia Maria Citraningtyas and Daniel Adipradipto	saphira.suwanto@gmail.com; citraningtyas@students.itb.ac.id; danieladipradipto@yahoo.com
2	15:25 - 15:45	ES 15	Padjadjaran University	GEOCHEMICAL CHARACTERISTICS OF GEOTHERMAL FLUID BASED CHEMICAL ELEMENTS IN THE REGIONAL SURFACE MANIFESTATIONS TALAGA BIRU DISTRICT WEST SUMATRA PROVINCE	Aldi Manggala Persada and Ali Ridha	aldi13004@mail.unpad.ac.id; aldimanggalaipersada@gmail.com; ali.ridha.rumhadi@gmail.com
3	15:45 - 16:05	ES 23	Gadjah Mada University	GEOPHYSICAL MODELLING OF THE LAKE LINOW AREA, NORTH SULAWESI: A PROGRESS REPORT	Ardia Adam, Pri Utami, I Wayan Warmada, Ari Setiawan and Robert Reeves	ardiaadam@gmail.com; p.utami@gadjahmada.edu; warmada@gmail.com; ari_setiawan@ugm.ac.id; R.Reeves@gns.cri.nz
4	16:05 - 16:25	ES 46	Jenderal Soedirman University	INDICATION OF UPFLOW AND OUTFLOW ZONE ON THE NON-VULCANIC GEOTHERMAL SYSTEM IN SOUTHERN KUNINGAN, WEST JAVA	Bela Agung Pratama and Sachrul Iswahyudi	bela.tama@gmail.com; sachrul@gmail.com
5	16:25 - 16:45	ES 24	Hitay Energy Holdings	EMPIRICAL CORRELATION FOR NATURAL SURFACE HEAT LOSS TO ESTIMATE THE TOTAL GEOTHERMAL RESOURCE IN GUNUNG KEMBAR GEOTHERMAL PROSPECT	Tri Martha Kusuma Putra and Rizal Abiyudo	putra@hitay.sg; Rizal.abiyudo@hitay.sg
6	16:45 - 17:05	ES 43	PT Supreme Energy	STRUCTURE GEOLOGY OF SOUTHWESTERN SECTOR RANTAU DEDAP GEOTHERMAL FIELD	Ridwan Permana Sidik, Wildan Mussofan, Sonny Santana, Herwin Azis	ridwan-sidik@supreme-energy.com
7	17:05 - 17:25	ES 26	Delft University of Technology (TU Delft)	EXPLORATION AND COMPARISON OF GEOTHERMAL AREAS IN INDONESIA BY FLUID-ROCK GEOCHEMISTRY	Fiorenza Deon, Auke Barnhoorn, Caroline Lievens, Nenny Saptadij, Sutopo, Freek van der Meer, Tia den Hartog, Maren Brehme, David Bruhn, Mayestica de Jong, Riskiray Ryannugroho, Rizki Hutami, Rachmat Sule, Christoph Hecker and Damien Bonté	F.Deon@tudelft.nl; Auke.Barnhoorn@tudelft.nl; c.lievens@utwente.nl; nennys@tm.itb.ac.id; sutopo@tm.itb.ac.id; f.d.vandermeer@utwente.nl; tia.denhartog@utwente.nl; D.F.Bruhn@tudelft.nl; mayestica.goebel@outlook.com; riskiray.r@gmail.com; rizkihutami@yahoo.com; rachmat.sule@gmail.com; c.a.hecker@utwente.nl
8	17:25 - 17:45	ES 27	PT Supreme Energy	GEOLOGICAL ASPECT TO CONSTRAIN GEOTHERMAL CONCEPTUAL MODEL: GUNUNG RAJABASA CASE STUDY	Wildan Mussofan and Lukman Sutrisno	wildan-mussofan@supreme-energy.com; lukman-sutrisno@supreme-energy.com

TPC SCHEDULE INDONESIA INTERNATIONAL GEOTHERMAL CONVENTION AND EXHIBITION 2016

DAY 02 AUGUST 11, 2016 - KENARI ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
INTRODUCTION						
1	13:35 - 13:55	ENG 07	Gadjah Mada University	STUDY ON ANALYSIS OF EFFICIENCY IN GEOTHERMAL POWER PLANT	Muhammad Nabil Satria Faradis, Akhsanto Anandito and Khasani	Muhammad.nabil.s@mail.ugm.ac.id; muhammad.nabil.satria@gmail.com; akhsanto.anandito@gmail.com; khasani@ugm.ac.id
2	13:55 - 14:15	ENG 13	Institute Technology of Bandung	NUMERICAL MODELLING OF NAMORA-I-LANGIT GEOTHERMAL SYSTEM, SARULLA, INDONESIA	Muhammad Nizami, Sutopo, Heru Berian Pratama	muhammad_nizami@hotmail.com; sutopo@tm.itb.ac.id; hb.pratama@gmail.com
3	14:15 - 14:35	ENG 06	Star Energy Geothermal (Wayang Windu) Ltd	STUCK PIPE INCIDENT ANALYSIS - GEOTHERMAL FIELD IN WEST JAVA	Sena Satyadarma Wahyudin, Geovannis Napitupulu, Michael Ari Dhanto and Charona Pudney	senasatyadarma@starenergy.co.id; gnapiitupulu@slb.com; MDhanto@slb.com; CPudney@slb.com
4	14:35 - 14:55	ENG 43	Institute Technology of Bandung	PTSSIM, A NEW SOFTWARE FOR GEOTHERMAL WELL FEEDZONE SIMULATION	Yuzar Aryadi, Sutopo and Heru Berian Pratama	ujaraziz@gmail.com; hb.pratama@gmail.com
5	14:55 - 15:15	ENG 09	Chevron Geothermal Indonesia	PLUG AND ABANDONMENT OF GEOTHERMAL OBSERVATION WELLS USING COILED TUBING AND IN COMPLIANCE WITH GLOBAL STANDARD	Subur Arianto, Tommy Souvanir and Ari A. Fuad	subura@chevron.com; tswg@chevron.com; ariaf@chevron.com
BREAK						
INTRODUCTION						
6	15:35 - 15:55	ENG 04	Schlumberger	DIRECTIONAL DRILLING STRATEGY FOR GEOTHERMAL WELLS IN WEST JAVA	Agus Ziyad Kurnia, Yudi Indrinanto, Geovannis Napitupulu, Manuel Centeno Acuna, William Thomas, Jiang Feng Bao, Bonar Noviasta, Donny Trias Ardianto and M.R. Yoan Mardiana	Akurnia2@slb.com; yudi.indrinanto@starenergy.co.id; gnapiitupulu@slb.com; MAcuna@slb.com; WThomas4@slb.com; FJiang@slb.com; BNoviasta@slb.com; DTArdianto@slb.com; MMardiana@slb.com
7	15:55 - 16:15	ENG 42	Star Energy Geothermal (Wayang Windu) Ltd	WELL WASHING AND WELL BROACHING STIMULATION IN DRY STEAM WELL	Rio Nugroho and Mulyadi	Rio.Nugroho@starenergy.co.id; Mulyadi@starenergy.co.id
8	16:15 - 16:35	ENG 12	POWER Engineers, Inc.	EVOLUTION OF ENGINEERING TOOLS - 20 YEAR RETROSPECTIVE	Kevin Wallace, Chun Chin and William Harvey	kevin.wallace@powereng.com; chun.chin@powereng.com; harvey@ru.is; chun.chin@powereng.com; harvey@ru.is

DAY 02 AUGUST 11, 2016 - MURAI ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
INTRODUCTION						
	13:30 - 13:35					
1	13:35 - 13:55	ENG 27	Institute Technology of Bandung	THE NATURAL STATE NUMERICAL MODEL OF PATUHA GEOTHERMAL RESERVOIR, INDONESIA	Fanji Firdaus and Sutopo	Fanjifirdaus1@gmail.com; Sutopo@tm.itb.ac.id
2	13:55 - 14:15	ENG 20	Gadjah Mada University	OPTIMIZATION OF GAS REMOVAL SYSTEM TO ACHIEVE HIGH EFFICIENCY AND ECO-FRIENDLY HEAT EXTRACTION PROCESS IN UNIT III OF LAHENDONG GEOTHERMAL POWER PLANT	Adimas Prasetyaaji, Muhammad Andry Rizki Dewanto, Himawan Tri Bayu Murti Petrus, Ahmad Yani and Ellena Wulandari	adimas.prasetyaaji@mail.ugm.ac.id; muhammad.andry.r@mail.ugm.ac.id; bayupetrus@yahoo.co.id; ahmadyani@pertamina.com; ellena.wulandari@mail.ugm.ac.id
3	14:15 - 14:35	ENG 30	Institute Technology of Bandung	WELL STIMULATION USING NCG INJECTION CASE STUDY: THE TWO-PHASE GEOTHERMAL FIELD, WEST JAVA, INDONESIA	Andhika Ariefrachman Akib, Waldy Afuar, Roy Wraspati, Indra Yudhistira and Agustinus Windy	andhikaakib@yahoo.com; andhikaakib@gmail.com; afuar_04@yahoo.com
4	14:35 - 14:55	ENG 21	Universitas Gadjah Mada	DESIGN OF ORGANIC RANKINE CYCLE POWER PLANT AS BINARI SYSTEM WITH GEOTHERMAL WASTE HEAT AS HEAT SOURCE. CASE STUDY : PLTP GEO DIPA ENERGY DIENG	Fahmi Fahrurrozi , Tubagus Dimas Aditya Rachman, Rizky Rahmadi	fahmi.fahrurrozi@mail@ugm.ac.id
5	14:55 - 15:15	ENG 14	PT Pertamina Geothermal Energy, Scientific Drilling and PT Air Drilling	A SUCCESS STORY ON EM-MWD APPLIANCE IN GEOTHERMAL DRILLING OPERATION: CHALLENGE AND RECOMMENDATION	Apriyansah Toni, Ade Rama Purnama, Raka Aditya Pratama, Rangga Warsita and Erald Eiden	apriyansah@pertamina.com; ade.purnama@scientificdrilling.com; raka@airdrilling.com; ranggaaji54@yahoo.co.id; eiden_erald@yahoo.com
BREAK						
	15:15 - 15:30					
	15:30 - 15:35					
INTRODUCTION						
6	15:35 - 15:55	ENG 44	Halliburton	COLLABORATIVE PROJECT MANAGEMENT CHANGES THE DELIVERY OF GEOTHERMAL WELLS	Matthew Kelley, Thomas Jenkins, Jose Villarreal, Shannon Slocum and Colton Thomas	thomas.jenkins@halliburton.com
7	15:55 - 16:15	ENG 11	Star Energy Geothermal (Wayang Windu) Ltd	CHALLENGING ACIDIZING TREATMENT IN THE DRY STEAM WELLS	Mulyadi dan Boyke Bratakusuma	mulyadi.s@starenergy.co.id; boyke.bratakusuma@starenergy.co.id
8	16:15 - 16:35	ENG 03	Star Energy Geothermal (Wayang Windu) Ltd	INTEGRITY STUDY OF COOLING TOWER WOODEN STRUCTURE AFTER 13 YEARS OPERATION	Wilis Wirawan and Dr. Effendi Tri Bahtiar	wilis.wirawan@starenergy.co.id; bahtiar_et@yahoo.com

DAY 02 AUGUST 11, 2016 - KAKATUA ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
INTRODUCTION						
	13:30 - 13:35					
1	13:35 - 13:55	ENG 24	Institut Teknologi Bandung	A NATURAL STATE RESERVOIR MODELLING OF SILANGKITANG GEOTHERMAL FAILED IN NORTH SUMATERA USING TOUGH - 2 SIMULATOR	Oscar Dwi Marjuan, Sutopo, Heru Berian Pratama	oscar.marjuan@gmail.com
2	13:55 - 14:15	ENG 29	Schlumberger	SAFELY MANAGE STEAM KICKS TO FREE STUCK PIPE	Manuel Aquiles Centeno Acuña, Yudi Indrinanto and Stefano Scagliarini	macuna@slb.com; yudi.indrinanto@starenergy.co.id; sscaglia@slb.com
3	14:15 - 14:35	ENG 16	PT Pertamina Geothermal Energy	DRILLING THROUGH TOTAL LOSS CIRCULATION AT SHALLOW DEPTH AND UNCONSOLIDATED FORMATION: A SUCCESS STORY OF GEOTHERMAL WELLS	Apriyansah Toni, Umar Sidiq, Teguh Irawan, La Ode Reza and Raka Aditya Pratama	apriyansah@pertamina.com; umar.sidiq@pertamina.com; mk.teguh.irawan@pertamina.com; mk.laode.humardhani@pertamina.com; raka@airdrilling.com
4	14:35 - 14:55	ENG 46	Halliburton	CUSTOM DESIGNED PDC BITS ENHANCES GEOTHERMAL DRILLING PERFORMANCE	Sabri Mohamad, James A Hanson, Matthew Kelley, Gabor Kosco, Colton Thomas, Ariatama Yustisia and Rifki Hendramahdi	Ariatama.yustisia@halliburton.com
5	14:55 - 15:15	ENG 01	Pacific Northwest National Laboratory	STIMULI-RESPONSIVE FRACKING FLUIDS AND PROPPANTS FOR SUBSURFACE STIMULATION	Carlos Alberto Fernandez, M. Ian Childers, Tamas Varga, Lirong Zhong, David Hoyt, Mackenzie Endres, Carolyne Burns and Alain Bonneville	carlos.fernandez@pnnl.gov; matthew.childers@pnnl.gov; tamas.varga@pnnl.gov; lirong.zhong@pnnl.gov; david.hoyt@pnnl.gov; mackenzie.endres@pnnl.gov; carolyne.burns@pnnl.gov; alain.bonneville@pnnl.gov
BREAK						
	15:15 - 15:30					
	15:30 - 15:35					
INTRODUCTION						
6	15:35 - 15:55	ENG 02	Star Energy Geothermal (Wayang Windu) Ltd	GEOTHERMAL STEAM TURBINE PRESERVATION FOR LONG TERM SHUTDOWN	Amri Zein	amri.zein@starenergy.co.id
7	15:55 - 16:15	ENG 15	PT Pertamina Geothermal Energy and PT Air Drilling	THE DEEPEST GEOTHERMAL WELL IN INDONESIA: A SUCCESS STORY ON OPTIMUM PARAMETERS IMPLEMENTATION, THE KEY OF HOLE CLEANING ASPECT	Apriyansah Toni, Adi Krishamidan, Suman Pahlevi, Fakhri Ade Andika, Raka Aditya Pratama and Ade Dwi Prasetyo	apriyansah@pertamina.com; adikrishamidan@pertamina.com; mk.suman.pahlevi@pertamina.com; raka@airdrilling.com; mk.fahri.ade@pertamina.com; mk.ade.dwi@pertamina.com

DAY 02 AUGUST 11, 2016 - NURI 1 ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
INTRODUCTION						
1	13:35 - 13:55	ENG 31	Institute Technology of Bandung	PRELIMINARY : TECHN - ECONOMIC STUDY OF GEOTHERMAL WELL HYDRAULIC FRACTURING IN INDONESIA	Prihatmaka and Sudjati Rachmat	prihatmaka@gmail.com; sudjati@tm.itb.ac.id
2	13:55 - 14:15	ENG 33	Institute Technology of Bandung	NUMERICAL EVALUATION OF STATIC FORMATION TEMPERATURE TEST (SFTT)	Waldy Afuar and Jantiur Situmorang	waldyafuar@gmail.com; jantiur-situmorang@supreme-energy.com
3	14:15 - 14:35	ENG 34	University of Auckland	INVERSE MODELLING OF LAHENDONG GEOTHERMAL FIELD	Fajar Adi Prasetyo, Mike O'Sullivan and John O'Sullivan	fpra695@aucklanduni.ac.nz; f.prasetyo@pertamina.com; m.osullivan@auckland.ac.nz; jp.osullivan@auckland.ac.nz
4	14:35 - 14:55	ENG 45	Halliburton	INNOVATIVE STUCK PIPE PREVENTION TECHNIQUES SIGNIFICANTLY REDUCE GEOTHERMAL WELL COSTS	Ahmad Zakuan Azmi, Rohit Mitra and Matthew Kelley	thomas.jenkins@halliburton.com
5	14:55 - 15:15	ENG 28	Star Energy Geothermal (Wayang Windu) Ltd	EVALUATION OF ENERGY LOSS IN GEOTHERMAL PIPING SYSTEM	Mahendra Kuntoaji and Hariyanto	Mahendra.kuntoaji@starenergy.co.id; Hariyanto.srl@starenergy.co.id
BREAK						
INTRODUCTION						
6	15:30 - 15:35	ENG 19	Gadjah Mada University	IMPLEMENTATION OF DOUBLE FLASH TECHNOLOGY TO BOOST THE PRODUCTIVITY OF GEOTHERMAL HEAT EXTRACTION SYSTEM	Muhammad Andry Rizki Dewanto, Andreas Diga Pratama Putra, Adimas Prasetyaaji, Himawan Tri Bayu Murti Petrus and Ahmad Yani	muhammad.andry.r@mail.ugm.ac.id; andreas.diga.95@gmail.com; 2adimas.prasetyaaji@mail.ugm.ac.id; 3bayupetrus@yahoo.co.id; 4ahmadyani@pertamina.com
7	15:55 - 16:15	ENG 05	Schlumberger	A COLLABORATIVE ENGINEERING APPROACH TO ACHIEVE SUCCESS IN GEOTHERMAL DRILLING APPLICATION FOR WEST JAVA	Agus Ziyad Kurnia, Geovannis Napitupulu, Yudi Indrinanto, Manuel Centeno Acuna, William Thomas, Michael Ari Dhanto, Jiang Feng Bao, Bonar Noviesta, Donny Trias Ardianto and M.R. Yoan Mardiana	Akurnia2@slb.com; gnapiupulu@slb.com; yudi.indrinanto@starenergy.co.id; MACuna@slb.com; WThomas4@slb.com; MDhanto@slb.com; FJiang@slb.com; BNoviasta@slb.com; DTardianto@slb.com; MMardiana@slb.com; WThomas4@slb.com

DAY 02 AUGUST 11, 2016 - NURI 2 ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
INTRODUCTION						
1	13:30 - 13:35					
1	13:35 - 13:55	ES 45	University of Lampung	THREE DIMENSIONAL TOMOGRAPHY BASED ON MICROEARTHQUAKE DATA AT BRADY'S HOT SPRING GEOTHERMAL FIELD, NEVADA	Nanda Hanyfa Maulida, Ahmad Zaenudin, Syamsurijal Rasimeng and Suharno	nandahanyfa@gmail.com; zaenudin7209@gmail.com; syamsurijal.rasimeng@gmail.com; suharnounila@gmail.com
2	13:55 - 14:15	ES 52	Institute Technology of Bandung	WORKFLOW FOR 1-D SUBSURFACE THERMAL CHARACTERIZATION	Ken Prabowo Baskoro Danendro Sudono and Falza Izza Wihdany	ken.prabowo@gmail.com; falza.izza@gmail.com
3	14:15 - 14:35	ES 30	Gadjah Mada University	SUBSURFACE LITHOLOGY MODEL USING GEOELECTRICAL SOUNDING AT UNGARAN, SEMARANG DISTRICT, CENTRAL JAVA	Raditya Narendratama, Deka Jelang Prokmanta, Dwi Prasetyo Utomo, Fitrul Islam, Indah Islamiyati, Jatmika Teja Sukmana, M. Hanief Shiddiqy, Timothy Marcell and Imam Suvanto	radityanarendra.tama@gmail.com; fitrul.islam@gmail.com
4	14:35 - 14:55	ES 02	Star Energy Geothermal (Wayang Windu) Ltd	SUITABLE GAS GEOTHERMOMETER TO MEASURE RESERVOIR TEMPERATURE	Zainal Abidin and Dwiyoarani Malik	Zainal.abidin@starenergy.co.id; Dwiyoarani.malik@starenergy.co.id
5	14:55 - 15:15	ES 67	University of Auckland	THREE DIMENSIONAL CONCEPTUAL MODEL OF ORAKEIKORAKO AND TE KOPIA GEOTHERMAL SYSTEMS, TAUPO VOLCANIC ZONE, NEW ZEALAND	Ahmad Fauzi Purwandono, Samantha A. Alcaraz and Julie V. Rowland	af.purwandono@gmail.com; S.Alcaraz@gns.cri.nz; j.rowland@auckland.ac.nz
BREAK						
INTRODUCTION						
6	15:30 - 15:35					
6	15:35 - 15:55	ES 55	PT Supreme Energy Muara Laboh	THE CHARACTERISTIC OF SUMATRAN GEOTHERMAL SYSTEMS FROM GEOLOGICAL PERSPECTIVE	Lukman Sutrisno, Mauliate Agustinus Sihotang	lukman-sutrisno@supreme-energy.com; mauiate-sihotang@supreme-energy.com
7	15:55 - 16:15	ES 13	PT Supreme Energy	RESISTIVITY GEOMETRY PATTERN AS A CONTROL FOR CONCEPTUAL MODEL ; SUMATERA FIELDS CASE STUDY	Mauliate Agustinus Hamonangan Sihotang, Herwin Azis, Irvan Rahmadan	mauiate-sihotang@supreme-energy.com; herwin-azis@supreme-energy.com
8	16:15 - 16:35	ES 29	PT Supreme Energy	PRELIMINARY OF RANTAU DEDAP STRUCTURE ASSESMENT OF SOUTHWESTERN AREA	Ridwan Permana Sidik, Wildan Mussofan, Sonny Santana, Herwin Azis	ridwan-sidik@supreme-energy.com

DAY 02 AUGUST 11, 2016 - MALEO ROOM

NO	TIME	TOPICS CODE	AFFILIATION	TITLE OF PAPER	AUTHOR	EMAIL
INTRODUCTION						
1	13:35 - 13:55	ES 08	PT Pertamina Geothermal Energy	SONIC LOG DERIVED POROSITY IN KAMOJANG GEOTHERMAL FIELD	Lendriadi Agung, R.M. Tofan Sastranegara, Anita Fitriah S.A, Pudyo Hastuti and Imam B. Raharjo	Lendriadi.agung@pertamina.com; rmtofans@pertamina.com
2	13:55 - 14:15	ES 05	Independent	STRATIGRAPHIC STUDY OF HOT WATER MANIFESTATION IN BANTARKAWUNG, BREBES, CENTRAL JAVA	Aulia Thariq Noor Majid and Riska Aprilia Triyadi	Aulia.anum@gmail.com
3	14:15 - 14:35	ES 42	Padjadjaran University	STRUCTURE DELINEATION MAPPING USING REMOTE SENSING TECHNIQUES IN GEOTHERMAL PROSPECT AREA	Agil Gemilang Ramadhan, Cipta Endyana, Aton Patonah, Novian Triandanu	agil.agr@gmail.com
4	14:35 - 14:55	ES 54	University of Pembangunan Nasional "Veteran" Yogyakarta	STUDY CASE OF GEOTHERMAL PROSPECT AREA ON JAVA ISLAND BASED ON PRESENCE OF HEAT SOURCE USING DELAY TIME TOMOGRAPHY ON P AND S WAVES	Faid Muhlis, Risca Listyaningrum, Indriati Retno Palupi and Joko Soesilo	faid.muhlis3@gmail.com; riscalisty@gmail.com
5	14:55 - 15:15	ES 09	PT Pertamina Geothermal Energy	SUBSURFACE DENSITY STRUCTURE OF TOMPASO GEOTHERMAL FIELD REVEALED FROM GRAVITY INVERSION CONSTRAIND WITH DENSITY CORE LAB	R Mochamad Tofan Sastranegara and Astha Dandari Kusuma Wardhani	rmtofans@pertamina.com; Astha.dandari@Pertamina.com
BREAK						
INTRODUCTION						
6	15:30 - 15:35	ES 51	Schlumberger	INNOVATIVE WORKFLOW TO EVALUATE GEOTHERMAL SYSTEMS	Nour Koronful	nkoronful@slb.com
7	15:55 - 16:15	ES 63	Universitas Indonesia & NewQuest Geotechnology	Magnetotelluric Time Series Data Processing of Metronix Instrument Based on Matlab	Fadhil Muddasir, M. Lutfi Ismail, Yunus Daud	fadhil.muddasir@sci.ui.ac.id; ydaud87@yahoo.com
8	16:15 - 16:35	ES 65	Universitas Indonesia & NewQuest Geotechnology	Interpretation of Magnetotelluric Profile Data Using Multidimensional Inversion	Anugrah Indah Lestari, Wambra Aswo Nuqramadha, Fikri Fahmi, Yunus Daud	anugrah.lestari@newquest-geotechnology.com

ES. 42

Structure Delineation Mapping using Remote Sensing Techniques in Geothermal Prospect Area Kepahiang, Bengkulu

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Keywords: Sumatera fault, remote sensing, extracted lineament, structural geology

ABSTRACT

Research area administratively located in Kepahiang Regency, Bengkulu Province. Tectonic setting is situated between Musi and Ketaun segment of Sumatera fault. Eastern Ketaun segment occurred dilatational step over to Musi segment. The structural geology in this tectonic setting is of great interest as a research object.

Several methods was used in this study, which consist of remote sensing and fieldwork. Structural analysis using satellite imagery ASTER-GDEM was carried out in remote sensing. Structural analysis methods consist of digital lineament extraction, lineament density, lineament delineation, and statistic lineament. Fieldwork consists of surface geothermal manifestation mapping.

Digital extracted lineament shows structure orientation pattern. High density lineaments indicate areas with a main structure. The structural play consist of four main orientation, which are NW-SE, NNW-SSE, WNW-ESE and NE-SW. Structural trend NW-SE is associated with hot spring in Kelopak, structural trend NNW-SSE is associated with hot spring, fumarole and mud pool in Kaki Kaba and Air Sempiang, WNW-trend ESE is associated with hot spring in Suban, and structural trend NE-SW is associated with hot spring in Sindang Jati. These structures play an important role as discharge zones indicated by high density lineament areas and geothermal manifestation occurrence. The structural trend related to tensional regime of Musi and Ketaun segment of Sumatera Fault.

1. INTRODUCTION

1.1 Background

Kepahiang geothermal prospect is situated in Sumatera fault system. Tectonically, it is situated between Musi and Ketaun segment of Sumatera fault. Eastern Ketaun segment occurred dilatational step over to Musi segment. Kaba stratovolcano is located between Musi and Ketaun segment. (Sieh and Natawidjadja, 2000). Surface geothermal manifestations indicate permeable zone and the existence of active subsurface geothermal system. This potential of geothermal system could be developed and utilized if we know whether it has potential. Generally in geothermal system we always search for permeable zones and high temperature systems because these are the most profitable and able to generate more energy. This study utilizes remote sensing and manifestation distribution to establish the role of permeable geologic structure.

1.2 Study Area

Study area is in Kepahiang Regency, Bengkulu Province, which is geographically located between 224000-246700 mT and 9597000-9620600 mT.



Figure 1. Study Area

2. GEOLOGIC SETTING

2.1 Tectonic and Geologic Structures

Sumatra Island is the northwest oriented physiographic expression, lied on the western edge of Sundaland, a southern extension of the Eurasian Continental Plate. The Sumatra island is interpreted to be constructed by collision and suturing of discrete microcontinents in late Pre-Tertiary times (Pulunggono et al., 1992). Sumatra lies along the southwest margin of the Sunda Continental Plate at the western end of the Sunda Arc, beneath which oceanic crust is currently being obliquely subducted in a north-northeast direction (Hamilton, 1979)

Based on Darman and Sidi (2000) tectonically, Sumatra Island can be divided into 5 areas: outer-arc ridges; fore-arc basins; back-arc basins; Barisan Mountain;