

THE 45th IPA CONVENTION & EXHIBITION, ORAL PRESENTATION TECHNICAL PROGRAM, 1-3 SEPTEMBER 2021

Wednesday, 1 September 2021									
45th IPA Convex Opening Ceremony									
SPECIAL SESSION 1									
Session Leader : Redo D. Waworuntu									
Session Chair : Leonardus Tjahjadi									
Indonesian Oil and Gas Data, collaborates Standard, Integration and Improvement - Soft Launching MDRE					Ir. Agus Cahyono Adi, M.T. - Pusat Data dan Informasi ESDM				
SPECIAL SESSION 2									
Session Leader : Fikri Irawan									
Session Chair : John Marcou									
Carbon Capture Utilization and Storage: What are the Big Issues and Opportunities for Future Energy Resources?					John Kaldi - University of Adelaide				
12:00 - 13:00 BREAK TIME									
Session 1 - Geoscience Rock Physics			Session 2 - Artificial Lift			Session 3 - Business Commercial			
Session Leader	Meita Silaban		Session Leader	Fikri Irawan		Session Leader	Medanestrian		
Session Chair 1 :	Putri Sari Wisman - ConocoPhillips		Session Chair 1 :	Ferry Anantokusumo - BP Indonesia		Session Chair 1 :	Rajasa Utama Sunarya - Jade Stone Energy		
Session Chair 2 :	Leonard Lisapaly - Independent		Session Chair 2 :	Khresno Pahlevi - ConocoPhillips		Session Chair 2 :	Medanestrian - Premier Oil Natuna Sea BV		
13:00 - 13:30	IPA21-G-11	Rock Physics Diagnostics as a Prerequisite for Optimal Petrophysics	Akash Malthur CGG	IPA21-E-20	Significant Increasing of Well Life Time by Changing Conventional Artificial Lift to Rodless ESPCP	Hazza Al Issaei MEDCO OMAN	IPA21-BC-131	Market Survey Methodology To Determine Best Practice Procurement Strategy And Sharp Well Economic: A Case Study Of Well Planning In Deepwater Exploration Indonesia	Bayu Buana Natanagara Premier Oil Natuna Sea BV
13:30 - 14:00	IPA21-G-252	Regional Top Seal Capacity Analysis in JS-1 Ridge, Offshore Madura Involving Seal Geometry, Capillary Seal, Hydrofracturing Analysis, And Natural Fracture Modelling	Khadafi Pertamina West Madura Offshore	IPA21-E-64	Introducing the Application of Hybrid Gas and Sand Control in Sucker Rod Pump (SRP) Case Study Old Rimau Mature Field South Sumatera	Prayudha Rifqi Safiraldi Medco E&P Indonesia	IPA21-F-214	MPEP Scorecard: A New Quantitative Approach to Measure Project's Maturity in MedcoE&P	Prima Tirto Kusumo MedcoEnergi
14:00-14:30	IPA21-G-143	Analytical Method to Accurately Estimate Overpressure Magnitude: The Case Study From Indonesia's Tertiary Basins	Agus M. Ramdhan Insitut Teknologi Bandung	IPA21-E-122	Artificial Lift Project in Bekapai Field, A Comprehensive and Challenging Selection Process for Mature Offshore Field	Benediktus Gunung Masuka Pertamina Hulu Mahakam	IPA21-BC-16	Fiscal Optimizations To Achieve A Win-Win Gross Split Production Sharing Contract On Deep-Water Case Project	Arsyan Himan Sasori Geoservices
14:30 - 15:00 BREAK TIME									
Session 4 - Geosciences - Stratigraphic Studies 1			Session 5 - Drilling			Session 6 - Safety & Environment			
Session Leader	Agung Budi Cahyono		Session Leader	Don Outtlinger		Session Leader	Mohammad Syaiful		
Session Chair 1 :	Agung Budi Cahyono - ExxonMobil Cepu, Ltd		Session Chair 1 :	Sang Made Kresna Andika - Tately NV		Session Chair 1 :	Harmanto Djamal - Pertamina		
Session Chair 2 :	Oki Musakti - Pertamina		Session Chair 2 :	Ida Bagus Ari Kresnawan - Kangean Energy Indonesia Ltd.		Session Chair 2 :	Agung Seno - Premier Oil Natuna Sea BV		
15:00 - 15:30	IPA21-G-91	Detailed Lithological Study Leads to New Insights about the Pre-Tertiary and Tertiary Reservoirs in the Suban Gas Field, South Sumatra Basin, Indonesia	Budi R Permana ConocoPhillips	IPA21-E-38	Shallow Water Subsea Well Drilling and Completion Utilizing Jack Up Rig at Natuna Sea Block	Sulisto Rahutomo Premier Oil Natuna Sea BV	IPA21-O-208	Digitalizing and Geo-Enabling Observation Cards to Improve Hazard Mitigation and Better Risk Assessment	Pachira Erza Paramitha Eseri Indonesia
15:30 - 16:00	IPA21-G-61	Detailed Lithofacies And Architectural Facies Analysis On Mixed Carbonate-Siliciclastic Clastic Shoreline Depositional Environment Of The Cibitukan Formation In Ciganjanjks River, Jonggol, Bogor, West Java	Eric Edwin Institut Teknologi Bandung	IPA21-E-93	The First Successful Rig-Less Mono-Trip Gas Lift Completion in Mahakam Field	Rahmat Sinaga Pertamina Hulu Mahakam	IPA21-O-43	Inspection and Mitigation for Pitting Corrosion on Stainless Steel Process Piping to Prevent Corrosion Safety Event and Loss Production Opportunity in Medco E&P	Imron Rosyadi Medco E&P
16:00 - 16:30	IPA21-G-34	Biogenic And Thermogenic Gas Potential Of The Underexplored Southern Kutai Basin, Offshore East Kalimantan: A Case Study From South Sessulu Block	Yudhi Artha Saka Energi Indonesia	IPA21-E-278	One Phase Well (OPW) - Unlock Shallow Reservoir Efficient and Economically by Eliminating Surface Casing	Irfan Hanif Pertamina Hulu Mahakam	IPA21-O-232	The Comparison Between Empirical and Data-Driven Computation in Predicting CO and NOx Emissions from Gas-Turbine-Based Power Plant	Trisantiyo Yoga Wicaksono PT. Sufcoffind (Persero)
16:30 - 17:00	IPA21-G-138	The Characterization Of Stratigraphic Play In The Middle Baong Sand For Hydrocarbon Prospecting In Offshore North Sumatera Basin	Abdullah Nurhasan Pertamina EP	IPA21-E-94	History of 50 Years Deepwater Drilling Activities in Indonesia (1968 - 2020)	Y. Ronny C. Sragar Drilling Practitioner			
Thursday, 2 September 2021									
Session 7 - Basin Tectonics 1			Session 8 - Digital Oilfields & AI			Session 9 - Pipeline Integrity			
Session Leader	Wynn A. Gajkowski		Session Leader	John Marcou		Session Leader	Afrizandi Eka Prasetya		
Session Chair 1 :	William Romodhono - Medco E&P Indonesia		Session Chair 1 :	Wahyu Arjun - Weatherford		Session Chair 1 :	Rokhmattuloh - Medco E&P Natuna Ltd		
Session Chair 2 :	Kuntadi Nugrahanto - Pertamina		Session Chair 2 :	Eugene Chiam - Rystad Energy Asia		Session Chair 2 :	Mutlari Oendang - Independent		
08:00 - 08:30	IPA21-G-29	Ciletuh Subduction, Southwest Java - New Findings: Nature, Age, and Regional Implications	Awang H. Sahyana Independent	IPA21-E-121	Inspection Of Production Tubing Thickness To Extend Well Operation Time With Thicktube Robot AI Pertamina EP Asset 5 Field Sangasanga	Tequh Rachman Hidayat Pertamina EP	IPA21-F-18	Pipeline Slugging and Mitigation: Production Strategy Challenge at The Tail of Production	Satya Dharma Pinem Medco E&P Indonesia
08:30 - 09:00	IPA21-G-286	Mechanism Of Gravity-Driven Deformation Using Sandbox Modeling: A Case Study Of The Tarakan Sub-Basin, East Kalimantan	Bennyamin Sapie Institut Teknologi Bandung	IPA21-E-194	Detect Oil Spill in Offshore Facility Using Convolutional Neural Network and Transfer Learning	Dharmawan Raharjo PHE Offshore Southeast Sumatra	IPA21-F-26	A Holistic Approach to Achieve Excellence in Pipeline Security Using "SOLIDIS"	Muhamad Rais PT Pertamina Gas
09:00 - 09:30	IPA21-G-118	Deep Dive Into The Mesozoic Play Potential Beneath The Batu Thrust: A Case Study In The Offshore Malindok, The Eastern Arm Of Sulawesi	Fatrial Bahesi Pertamina EP	IPA21-F-298	Digitalization of Decommissioning Cost Estimation Process for Petronas Upstream Assets	Ashwin Kumar A/L Narayanan Petronas	IPA21-F-186	312 Km Mubadala Ruby Field Subsea Gas Pipeline Dent Investigation And Assessment	Faisal Dwiyaning Purnawarman Mubadala Petroleum
09:30 - 10:00 BREAK TIME									
Session 10 - Geoscience Tectonics 2			Session 11 - Enhanced Oil Recovery			Session 12 - Facility - System & Planning			
Session Leader	Redo D. Waworuntu		Session Leader	H. van der Weerd		Session Leader	Siti Sitawati		
Session Chair 1 :	Wynn Gajkowski - Independent		Session Chair 1 :	John Cheung - ConocoPhillips		Session Chair 1 :	Wayan Mega Budiarta - Independent		
Session Chair 2 :	Ely Gurtino - Medco E&P Indonesia		Session Chair 2 :	Meita Silaban - Pertamina Hulu Rokan		Session Chair 2 :	Bayu Sari Adji - Medco E&P Indonesia		
10:00 - 10:30	IPA21-G-39	Tribology Of Southeast Sundaland Terranes: Re-Uniting Drifted Terranes Of Southeast Sundaland Using Common Marker Of The Late Oligocene Volcanics To Volcanic Clastics Of The Meratus Mountains, South Sulawesi, And Sumba - Implications for Petroleum Opportunities	Awang H. Sahyana Geotrek Indonesia	IPA21-E-9	Handil Low Salinity Water Injection: A Success Story	Julfree Sianturi Pertamina Hulu Mahakam	IPA21-F-45	Transitioning from Time-Based to Risk-Based Inspection (RBI) for Static Equipment at Banyu Urip Facility	Rath Ayu Novitasari ExxonMobil Cepu Ltd
10:30 - 11:00	IPA21-G-30	Regional Tectonics & Structural Framework of Offshore Aceh's Andaman Sub-Basin, Northern Sumatra, Indonesia	Stuart Clark Mubadala Petroleum Indonesia	IPA21-E-250	Selecting An Optimum Hydrophobic Groups From Vegetable Oil Derivative For Surfactants Used in Enhanced Oil Recovery	Ilham Ardatul Putra Kementerian Energi dan Sumber Daya Mineral	IPA21-F-287	Development of Integrated Oil and Gas Plant Information Management System (PIMS) in Indonesia	Mohamad Fauzan Amir SKK Migas
11:00 - 11:30	IPA21-G-14	Mesozoic Tectonic Setting of SE Sundaland After Magmatism and Suture Evidences in JS-1 Ridge	Ginjar Mahar Pamunokas Pertamina Hulu Energi West Madura Offshore	IPA21-E-263	Achieving Indonesian Oil and Gas Production to 1 Million Barrels Per Day by 2030 using Nanofooding as Novel EOR Method: Dream vs. Reality	Mohammad Adjie Pamunokas ENERKA	IPA21-F-142	Spatial Data Visualization in Augmented Reality for Facility Operations and Asset Monitoring in Oil and Gas Industry	Eufrasia Bianca Amaryllis Datmiko Eseri Indonesia
11:30 - 13:00 BREAK TIME									
Session 13 - Geoscience - Stratigraphy Studies 2			Session 14 - Reservoir Management			Session 15 - Facility - Methodology			
Session Leader	Angus Ferguson		Session Leader	Medanestrian		Session Leader	Meita Silaban		
Session Chair 1 :	Andy Livesey - Horizon Geconsulting		Session Chair 1 :	Henricus Herwin - Pertamina Hulu Mahakam		Session Chair 1 :	Harris Grenaldi Panaliputra - Pertamina Hulu Energi		
Session Chair 2 :	Asep Saripudin - Medco E&P Indonesia		Session Chair 2 :	Eky Saputra - Medco E&P Indonesia		Session Chair 2 :	Bambang Supono - Distra Energy		
13:00 - 13:30	IPA21-G-46	Carbonate Pore System Characterization, A Study Case From Drowning Cap Sequence in Vita Field, ExxonMobil Block Cepu Limited (EMCL)	Yska Triaminta Dewi Universitas Padjadjaran	IPA21-E-229	Capturing The Reservoir Uncertainty Through Probabilistic Dynamic Modelling And Prediction: A Case Study Of Multi-Layered Waterflood Reservoir With 90 Years Production History And 293 Wells	Ecko Noviyanto Pertamina EP	IPA21-F-27	New Approach In Developing Minimum Facility Platform (MFP) Through Standardization Design In Medco E&P Offshore	Yasin Cahyono Medco E&P Indonesia
13:30 - 14:00	IPA21-G-300	The Mechanical Stratigraphy of Upper Kutai Basin: Implication to Kerendan Field Development Strategy As Massive Carbonate Tight Gas Reservoir	Krishna Pratama Laya MedcoEnergi	IPA21-E-75	Application Of Capacitance-Resistive Model With Global Optimizer	Aulia Ahmad Naufal Schlumberger	IPA21-F-49	Effective Alarm Management for Process Safety and Plant Reliability	Arief Eko Prasetyo Exxonmobil Cepu LTD
14:00 - 14:30	IPA21-G-31	New Perspectives On The Stratigraphy Of The Andaman Trough, Offshore North Sumatra, Indonesia, Utilising Modern Quantitative Biostratigraphical Analysis, Integrated With Newly Acquired 3D Multi Client Seismic Data	Nada Nirsal Mubadala Petroleum Indonesia	IPA21-E-127	Gas Deliverability Monitoring and Reserves Quantification without Shut-In the Well: Application of Coupled Material Balance - Nodal Analysis Approach in Main Zone of Tunu Field, Mahakam	Prakash Jeet Singh Pertamina Hulu Mahakam	IPA21-F-4	Company Cost Accuracy Benchmark Toward Industry Practice and International Guidelines At Project Phases Gate	Erwin Indrawan ConocoPhillips

14:30 - 15:00		BREAK TIME		BREAK TIME		BREAK TIME			
		Session 16 - Geoscience - Fracture & Basement Plays		Session 17 - Reservoir Simulation & Characterization		Session 18 - Facility - Equipment			
Session Leader		Rita Retnawati		Session Leader		Rajasa Utama Sunarya			
Session Chair 1 :		Reki Indrawan - ConocoPhillips		Session Chair 1 :		Febrinaldo Eka Nugraha - PT Pertamina Hulu Kalimantan Timur			
Session Chair 2 :		George Barber - Terra Energy & Resource Technologies (TERT)		Session Chair 2 :		Sandy Suryakusuma - Medco Energi Internasional			
15:00 - 15:30	IPA21-G-65	Unravelling The 'Sweet Spot' Potential Of Fractured Basement In Kelating High, South Sumatra Basin By Integrating Complex Seismic Attribute And Resistivity Log Evaluation	Rady Adiansa PERTAMINA EP	IPA21-E-68	Probabilistic History Matching And Prediction Of Production Performance By Waterflood: A Case Study Of 70 Years Old Oil Field	Ecko Novianto Pertamina EP	IPA21-F-211	An Optimization Model For Corrosion Repair Campaign Plan On Offshore Platform's Topsides Facilities	Mohammad Fribadi Mubadala Petroleum
15:30 - 16:00	IPA21-G-85	Understanding The Fractures Connectivity Control In Neb Field, South Sumatra Basin: From Seismic To Geomechanics And Its Implication For Further Fractured Basement Exploration	Teguh Fibrianto PetroChina International Jabung	IPA21-E-92	Reservoir Characterization Of Fractured Gas Reservoirs Through The Integration Of Dynamic Data	Ivan Rahmawan ConocoPhillips	IPA21-F-188	Successful Sand Consolidation Portfolio Expansion Through Comprehensive Parameter Control	Izzad Abidiy Pertamina Hulu Mahakam
16:00 - 16:30	IPA21-G-257	Java Volcanic Arc: What Lies Beneath?	Eriangga Septama Pertamina	IPA21-E-132	Success Story Of Integrated Subsurface Study To Deliver Successful Infill Drilling: Buntals Case Study	Budi Khoironi MedcoEnergi	IPA21-F-225	Thermoelectric Peltier-Based Cooler Generator As The Right Option To Optimize Flare Gas Utilization In Mature Fields	Adha Bayu Wijaya Pertamina EP
16:30 - 17:00	IPA21-G-98	Mid-Crustal Detachment Beneath Southern Timor-Leste: Seismic Evidence For Australian Basement In The Timor Collision Complex (And Implications For Prospectivity)	Tim Charlton Consultant				IPA21-F-167	Risk Analysis Study For Fuel Gas System Improvement In Banyu Urip Facility	Yoga Hulomo Putra ExxonMobil
Friday, 3 September 2021									
		Session 19 - Geophysics		Session 20 - Heavy Oil & Well Testing		Session 21 - Facility - Optimization			
Session Leader		Mohammad Syaiful		Session Leader		Fikri Irawan			
Session Chair 1 :		Ludy Andria - ConocoPhillips		Session Chair 1 :		Siti Sitawati - Medco E&P Indonesia			
Session Chair 2 :		Derrick McClure - Berlian Dinamika Santosa		Session Chair 2 :		Ajeng Salindri Wulandari - SKK Migas			
08:00 - 08:30	IPA21-G-163	Unlocking The Potential Of Conventional Narrow Azimuth Data By Full-Waveform Inversion: A Deep Carbonate Imaging Case Study, Offshore Indonesia	Jun Wang CGG	IPA21-E-35	Breaking The Limit: Breakthrough Technology To Develop Ultra Shallow Heavy Oil with Oil Mining	Dyah Pitaboka C. PT Medco E&P Indonesia	IPA21-F-166	Application Of Unbalanced Load Sharing To Compensate Low Compressor Train Capacity	Yoga Hulomo Putra ExxonMobil
08:30 - 09:00	IPA21-G-183	De-Risking Appraisal Phase In The Recent Gas Discovery In Banggai-Sula Basin, Central Sulawesi: Application Of AVO Analysis And Pre-Stack Inversion In The Sub-Ophiolite Reef Carbonate Play	Mufid Ahmad Pertamina EP	IPA21-E-51	Optimum Salt Concentration Design Of Low Salinity Water Injection In Tangki Structure At Sukananti Field	Halizh Zakyan Bass Oil Sukananti Limited	IPA21-F-187	Development of Structural Risk-Based Underwater Inspection (RBU) Based on Agile and Dynamic Inspection Data Analysis	Faisal Dwiyanu Purnawarman Mubadala Petroleum
09:00 - 09:30	IPA21-G-294	Imaging Of Subsurface Velocity Structure On Volcanic Area Of South East Java: An Application Of Passive Seismic Ambient Noise Tomography For Sub-Volcanic Hydrocarbon Exploration	Pongga Wardaya Pertamina	IPA21-E-44	Reservoir Management Paradigm Shift Upon Successful Infill Wells Of Sungai Gelam Field	Reza Rahadian Pertamina EP	IPA21-F-86	Improving The Efficiency Of Well Intervention Project Trial, Commissioning And Management Walk Through During Pandemic With Virtual Based Synergy Of Engineering, Operation & Planning Division	Khalid Umar Pertamina Hulu Mahakam
09:30 - 10:00	BREAK TIME		BREAK TIME		BREAK TIME				
		Session 22 - Geoscience - Innovative Technology		Session 23 - Well Intervention & Integrity		Session 24 - Drilling			
Session Leader		Arya Disiyona		Session Leader		Jufrihadi			
Session Chair 1 :		Angus Ferguson - Bright Spot Consultants		Session Chair 1 :		Agung Pratomo - Petronas			
Session Chair 2 :		Agung Budi Cahyono - ExxonMobil Cepu Ltd		Session Chair 2 :		Agapitus Rustriwidodo - Pertamina Hulu Rokan			
10:00 - 10:30	IPA21-G-125	Using Spatial Analysis Of Hydrocarbon Compositions to Better Understand the Petroleum Systems of the South Sumatra Basin, Indonesia	Andrew Robert Livsey PT Horizon Geoconsulting	IPA21-E-133	First Application Micro Coiled Tubing In Indonesia At Offshore Mahakam	Rante Marinda Pertamina Hulu Mahakam	IPA21-E-79	First Application Drilling New Wells with HWU In Swamp Environment, Delta Mahakam	Riko Pertamina Hulu Mahakam
10:30 - 11:00	IPA21-G-220	Machine Learning Technology To Improve Precision And Accelerate Screening Shallow Gas Potentials In Turu Shallow Gas Zone, PT Pertamina Hulu Mahakam	Ronald Herbet Pertamina Hulu Mahakam	IPA21-E-177	Rigless Remote Intervention : A Case Study Of Combo Unit Utilization In Mahakam Offshore East Kalimantan	Reyhan Hidayat Pertamina Hulu Mahakam	IPA21-E-224	Millennial Green Drilling: Deliver More with Less (Solution to the Drilling Operations)	Agil Rokestu Prababrawa Schlumberger
11:00 - 11:30	IPA21-G-150	Mature Field Development to Periphery Area: Tambora West Flank Development Opportunity	Yasinto Sindhu Priastomo Pertamina Hulu Mahakam				IPA21-E-155	Continuous Circulation While Drilling: A New Approach To Maintain Hole Cleaning And Improve Drilling Performance In Swamp Drilling Operation	Bintang Kusuma Yuda Pertamina Hulu Mahakam
11:30 - 13:00	BREAK TIME		BREAK TIME		BREAK TIME				
		Session 25 - Geoscience - Petroleum Systems		Session 26 - Enhanced Oil Recovery		Session 27 - Business Commercial			
Session Leader		Meita Silaban		Session Leader		Rajasa Utama Sunarya			
Session Chair 1 :		Nico Bianchi - RISC Advisory		Session Chair 1 :		Kin Tjendrasa - Energi Mega Persada			
Session Chair 2 :		Arse Kusumastuti - Gaffney, Cline & Associates		Session Chair 2 :		Don Duttlinger - PT. CIME			
13:00 - 13:30	IPA21-G-178	Redefining Reservoir Architecture Of Hydrocarbon-Bearing Ngrayong Formation In Banyu Urip Area: New Insights To Unravel Hidden Potential In East Java Basin, Indonesia	La Ode Ahyar ExxonMobil Oil	IPA21-E-111	Integrated Dynamic Synthesis As Key Success To Sustain Oil Production In Mahakam: Case Water Flooding Project In Handil Field	Azarya Hesron Surbakti Pertamina Hulu Mahakam	IPA21-BC-205	Comparative Analysis Of The Relative Attractiveness Of The Current/Future Terms In The South East Asia Region	David Ooi IHS Markit
13:30 - 14:00	IPA21-G-25	Unlocking The Complex Geology & Petroleum Systems: Efforts To Awaken The Sleeping Giant - A Prospectivity Rejuvenation Case Study Of West Sebuku Block, South Makassar Basin, Indonesia	Rahmat Ulomo Mubadala Petroleum	IPA21-E-22	Encouraging Preliminary Results of Steam Flood Pilot Project In Unconsolidated Reservoir with Strong Water Drive, Sultanate of Oman	Abdullah AL Cassabi MEDCO OMAN	IPA21-BC-32	What Hit And Miss In Indonesia CBM Project - Empirical Study Of Slowing Down Factors For CBM Development And Proposed Suitable Action For CBM Development In Indonesia By Using Analytical Hierarchy Process	Imam Ahmad Firdaus PT. Visi Multi Artha - CBM Sangatta II
14:00 - 14:30	IPA21-G-78	New Finding On Oil Distribution In Jabung Block And Its Implication To Pre-Talang Akar Formation (Pre-TAF) Play In The Jabung Block	Beiruny Siam PetroChina International Jabung	IPA21-E-162	Mechanisms Of Nanofluid Based Modification MOS: Nanosheet For Enhanced Oil Recovery	Ming Qu China University Of Petroleum-Beijing			
14:30 - 15:00	IPA21-G-212	New Perspective On The Source Rock Facies Of Offshore Aceh's Andaman Trough, North Sumatra Indonesia, Based On The Latest Onshore Oil Sampling and Analysis	Dedi Arvono Mubadala Petroleum	IPA21-E-249	Steam Injection In Faulted Reservoir and Application of Fracture-Assisted Flooding	Agnes Tianovita Institut Teknologi Bandung			
15:00	CLOSING		CLOSING		CLOSING				