

Jose Luis Ortiz-Volcan – 46 Publications and Presentations from 1983 to 2022 related to Upstream Oil and Gas, Production Optimization, Asset Optimization, Strategic Planning, Risk Management, Technology Management, Artificial Intelligence and Machine Learning, IOR/EOR, Heavy Oil, Field Development, Well Projects

1. Jose Luis Ortiz Volcan: **“Un Viaje al Mundo de la Inteligencia Artificial: Guía Práctica para su Aplicación en el Negocio de Exploración y Producción”**, (Spanish presentation – English title: **“A Journey into the World of Artificial Intelligence: A Practical Guide for its Application in the Exploration and Production Business”**) – Society of Petroleum Engineers SPE Caracas Petroleum Section Webinar, 21 July 2022. Link: <https://www.youtube.com/watch?v=ZS9S97W74k0&t=253s> , Venezuela
2. Jose Luis Ortiz Volcan: **“Metodología Integral de Productividad, MIP”**, (Spanish presentation – English title: **“Integral Methodology for Productivity Optimization”**) – Society of Petroleum Engineers SPE Caracas Petroleum Section Webinar, 11 November 2020. Link: <https://www.youtube.com/watch?v=S63BVBji9-Q> , Venezuela
3. J.L. Ortiz-Volcan, W. Al-Khamees and K. Ahmed.: **“ Strategic Competencies For Integrated Subsurface-surface Heavy Oil Field Operations And Optimization”**. Paper **SPE-197997-MS**. 4th Kuwait Oil & Gas Conference, 13-16 October 2019. Kuwait. Link: <https://doi.org/10.2118/197997-MS>
4. J.L. Ortiz-Volcan.: **“ Integrated Production Optimization: Key for Improved Oil Recovery in Non-Conventional Fields”**. SPE Workshop Production Optimization. 18-19 September 2018. Kuwait. Link: <https://www.spe.org/events/en/2018/workshop/18aku2/about-this-workshop.html>
5. J.L. Ortiz-Volcan, K. Ahmed, S. Azim, Y. Issa, R. Pandit, A.K. Al-Jasmi, M.O. Hassan, A. Sanyal, Kuwait Oil Company, S. Taduri, Kuwait Gulf Oil Company.: **“ Opportunity Assessment of A Deep Extra Heavy Oil Green Field: Scenarios for Life Cycle Cost Optimization under Uncertainty and Risk”**. Paper **SPE-193675-MS**. SPE Heavy Oil Conference and Exhibition (HOCE), 10-12 December 2018. Kuwait. Link: <https://doi.org/10.2118/193675-MS>

6. J.L. Ortiz-Volcan, W. Al-Khamees and K. Ahmed.:”**Strategic Competencies for Non-Conventional Heavy and Extra Heavy Oil Fields: Identification, Definition and Measurement**”.Paper [SPE-193671-MS](#). SPE Heavy Oil Conference and Exhibition (HOCE), 10-12 December 2018. **Kuwait**. Link: <https://doi.org/10.2118/193671-MS>
7. J.L. Ortiz-Volcan, W. Al-Khamees and K. Ahmed.:” **Benchmarking Of Heavy Oil Fields: A Tool for Identification of Opportunities for Total Cost and Production Optimization**”.Paper [SPE-193647-MS](#). SPE Heavy Oil Conference and Exhibition (HOCE), 10-12 December 2018. **Kuwait**. Link: <https://doi.org/10.2118/193647-MS>
8. Herminio Passalacqua, Jose Luis Ortiz Volcan, Mohamad Hasan Al Einawi, Jamaneh Mostafa Kadnaji, and Fatemah Karam.: “**Application of a Multiple Attribute Decision Making Method to Improve Oil and Gas Field Development Projects**”.Paper [SPE-187564-MS](#). SPE Kuwait Oil & Gas Show and Conference. Kuwait City, **Kuwait**, 15-18 October 2017.
Link: <https://doi.org/10.2118/187564-MS>
9. J.L. Ortiz-Volcan, F.H. Shanat and F. Haider.:”**Method to Measure Front End Loading (FEL) of Steam-Based Thermal Recovery Projects to Assess Impact of Reservoir Complexity, Uncertainty and Risk in Future Performance**”.Paper [SPE-187556-MS](#). SPE Kuwait Oil & Gas Show and Conference. Kuwait City, **Kuwait**, 15-18 October 2017.
Link: <https://doi.org/10.2118/187556-MS>
- 10.J.L.Ortiz-Volcan, F.M. Behbahani, M.G.Akbar.:”**Cost Optimization of a Thermal Recovery Project in Heavy Oil Green Field – Kuwait**”.Paper [SPE-184103-MS](#). SPE International Heavy Oil Conference and Exhibition (HOCE). 6–8 December 2016. Mangaf, **Kuwait**. Link: <https://doi.org/10.2118/184103-MS>
- 11.M.Al-Obaidi, J.L.Ortiz-Volcan,F.J.Gomez and M.G.Akbar.:”**Supply Chain Modeling of a Steam-Based Thermal EOR Heavy Oil Field Development Project in Kuwait: Lessons Learned**”.Paper [SPE-184097-MS](#). SPE International Heavy Oil Conference and Exhibition (HOCE). 6–8 December 2016. Mangaf, **Kuwait**. Link: <https://doi.org/10.2118/184097-MS>

12. F.F. Haider, Ortiz-Volcan JL, LA. Pichery.: **“HSE Integrated Risk Assessment for a Steamflood Pilot Program”**. Paper **SPE-175376**. SPE Kuwait Oil and Gas Show and Conference. 11-14 October 2015. Mishref, Kuwait.
Link: <https://doi.org/10.2118/175376-MS>

13. Ortiz-Volcan J.L., R. Ghouti, A.M. Al-Naqi, A.K. Jain.: **“Heavy Crude Oil Sampling and Assay for Refinery Capacity Planning: Design, Plan and Execution in a Supergiant Green Field”**. Paper **SPE-175292**. SPE Kuwait Oil and Gas Show and Conference. 11-14 October 2015. Mishref, Kuwait. Link: <https://doi.org/10.2118/175292-MS>

14. Anil Kumar Jain, Khalid Ahmed, Jose L. Ortiz-Volcan and Waleed Al-Khamees.: **“Water Analysis-A Key Tool For Reservoir Monitoring Under Cyclic Steam Stimulation”**. Paper **SPE-175287-MS**. SPE Kuwait Oil and Gas Show and Conference. 11-14 October 2015. Mishref, Kuwait. Link: <https://doi.org/10.2118/175287-MS>

15. Ortiz-Volcan J.L and Iskandar A.: **“A Life Cycle Approach for Assessing Production Technologies In Heavy Oil Well Construction Projects”**. Paper **SPE-150709**. 2011 SPE Heavy Oil Conference and Exhibition (HOCE), 12-14 December 2011. Mangaf, Kuwait. Link: <https://doi.org/10.2118/150709-MS>

16. Ortiz-Volcan J.L., Ronelba Blanco, Diane Djotaroeno.: **“An Alternate Simplified Approach For Selecting Enhanced Oil Recovery Technologies Using Analogs And Hubbert Peak Oil Theory”**. Paper **SPE-144982**. SPE Enhanced Oil Recovery Conference held July 2011 in Kuala Lumpur, Malaysia. Link: <https://doi.org/10.2118/144982-MS>

17. Ortiz-Volcan J.L.: **“Development of Heavy Oil Offshore Lake Maracaibo Field Using Slug Gas Lift: A Case History”**. Paper **SPE-143920**. Brasil Offshore Conference June 2011, Macaé, Rio de Janeiro. Brasil.
Link: <https://doi.org/10.2118/143920-MS>

18. Ortiz-Volcan J.L and Iskandar A.: **“A Methodology to Assess Uncertainties and Risks in Heavy Oil Projects”**. Paper **SPE-139345**. SPE LACPEC 2010 December 2010, Lima, Peru. Link: <https://doi.org/10.2118/139345-MS>

19. Reyes C., Ortiz J.L. and E. Azuaje: **“A Reliability Based Systemic Method for Water Production Analysis, Diagnosis and Solution Design”**, Paper [SPE-138935](#). SPE LACPEC 2010 December 2010. Lima, **Peru**.
Link: <https://doi.org/10.2118/138935-MS>
20. Ortiz J.L.: **“Early Production Assessment During Visualization Phase of a Well Project Life Cycle - Reservoir, Well and Surface Integration”**. SPE ATW - Maximum Reservoir Contact: Multilateral, Horizontal, and Extended-Reach Wells Construction 20–22 June 2010 / Bucaramanga, **Colombia**.
21. Ortiz J.L. Astor J.G., Sanchez F. and Iskandar A.: **“Collaborative Well Project (FEL-VCD) Application to Optimize Value in the Whole Well Life Cycle: Methodology, Applications and Lessons Learned”**. SPE ATW - Maximum Reservoir Contact: Multilateral, Horizontal, and Extended-Reach Wells Construction 20–22 June 2010 / Bucaramanga, **Colombia**.
22. Ortiz J.L.: **“Case Study: An Integrated Asset Management Approach to Unconventional Oil Natural Assets – Venezuela”**. Platts - Securing Benchmarks and Supply: The Challenges for Crude Oil - May 13th to 14th 2008 - Renaissance Wien Hotel - Vienna, **Austria**.
23. Ortiz J.L.: **“Subsurface-Surface Artificial Lift Integrated Optimization: keeping Low Production Costs While Creating More Value”** SPE Applied Technology Workshop - “A Field Life Cycle Perspective to Artificial Lift Asset Systems” - 20-25 Feb 2007 - Cartagena, **Colombia**.
24. Soto B.R., Perez O.P., Ortiz, J.L., Perez S.: **“How to Use Artificial Intelligence to Select the Most Appropriate EOR Process and the Corresponding Artificial Lift Method”**, at SPE Applied Technology Workshop - “A Field Life Cycle Perspective to Artificial Lift Asset Systems” - 20-25 Feb 2007 - Cartagena, **Colombia**.
25. Ortiz J.L.: **“Integrated Well Productivity Optimization: Lessons Learned in 25 Years”**. SPE Applied Technology Workshop - Opportunities in Mature Oil Fields: Technical and Economic Challenges - 23–25 Aug 2006 — Miraflores Park — Lima, **Peru**

- 26.Ortiz, J.L. (PDVSA), S. Yesquen (Petrobras Energia Perú) and T. Blasingame (Texas A&M University) **“Technologies for Mature Fields: A Compilation”**. SPE Applied Technology Workshop - Opportunities in Mature Oil Fields: Technical and Economic Challenges - 23–25 Aug 2006 — Miraflores Park — Lima, **Peru**
- 27.Ortiz, J.L. (PDVSA) and T. Blasingame (Texas A&M University) - Cochairs ATW – **“Key Success Factors When Selecting Technologies for Mature Fields: Navigation Guidelines for a Moving Target”** - Applied Technology Workshop - ATW Key Technologies To Create More Value From Mature Fields- 21–24 February 2006 - Hilton Margarita & Suites - Margarita Island, **Venezuela**
- 28.Ortiz, J.L. (Chairman SPE Caracas Petroleum Section) – **“Systemic Vision of Fossil Energy”** – 2nd Seminar of SPE Venezuelan Student Chapters - Simon Bolivar University - Sartenejas, Caracas, **Venezuela** - September 29-30 2005
- 29.Ortiz, J.L. & Haskell, J.B.: **“Technology Transfer Program Increases Production in Venezuela”**- Offshore Magazine, Volume 62, Issue 8, January 1st 2002. **USA**
<http://www.offshore-mag.com/articles/print/volume-62/issue-8/news/technology-transfer-program-increases-production-in-venezuela.html>
- 30.Ortiz, J.L. (Senior Technology Planning Consultant – PDVSA Corporate Planning) – **“Subsurface Surface Production Optimization: A Vision”** – 2nd Production Optimization Under Automated Operations Internal Conference – PDVSA Production Western – Lagunillas, **Venezuela** - February 2002.
- 31.Ortiz, J.L.(Manager Center of Excellence for Production) – **“Subsurface Surface Integrated Optimization – Creating Value for PDVSA While Keeping Low Production Costs”** – First Technology Conference PDVSA Operating Agreements Partner Companies – 10-11 May 2001 – Gran Salon – PDVSA CIED Caracas **Venezuela**
- 32.Ortiz J.L.: **“Subsurface-Surface Integrated Optimization (2SIO): Keeping Low Production Costs in PDVSA while Creating More Value”**. Presented in the Second Smart Reservoirs Conference. SMI. London, **UK**. June 2000.
https://www.smi-online.co.uk/energy/archive/6-2000/conference/smart-reservoirs#day_2

33. Cedeño, M. and Ortiz J.L.: "**SOLAG: An Intelligent Gas Lift Optimization System for Continuous and Intermittent Gas Lift Wells**", Paper **SPE-26972** presented in the III SPE Latin-American Conference (LAPEC) .Buenos Aires. **Argentina**. April, 1994. Link: <https://doi.org/10.2118/26972-MS>
34. Ortiz, J.L. and Prato, A.: "**Lessons Learned During the Development of a Gas Lift Troubleshooting Expert System: A Case History** ", Conference on Artificial Intelligence in Petroleum Exploration and Production (CAIPEP), Dallas, Texas, **USA**, May 1993.
35. Ortiz, J.L.: "**Gas Lift Engineering and Operations in Lake Maracaibo Field: An Endless Learning Experience**", Gas Lift Workshop, American Society of Mechanical Engineers (ASME), Houston, Texas, **USA**, January 1993.
36. Ortiz, J.L.: "**Gas Lift Valves Evaluation**", III Artificial Lift Seminar held in Intevep, Los Teques, **Venezuela**, October 1992.
37. Ortiz, J.L.: "**Application of Artificial Intelligence in the Diagnosis of Gas Lift Equipments**", III Latin American Petroleum Congress, ARPEL, Rio de Janeiro, **Brasil**, October 1992.
38. Ortiz, J.L.: "**Gas Lift Troubleshooting Engineering: An Improved Approach.**" Paper **SPE-20674**, 65th Annual Conference Society of Petroleum Engineers (SPE) , New Orleans, Louisiana, **USA**. , September 1990.
Link: <https://doi.org/10.2118/20674-MS>
39. Ortiz-Volcan, Jose Luis (1990). "**An artificial intelligence approach to model-based gas lift troubleshooting**". Master's thesis, Texas A&M University. Available electronically from <https://oaktrust.library.tamu.edu/handle/1969.1/ETD-TAMU-1990-THESIS-O77>
40. Ortiz, J.L.: "**Gas Lift Engineering in Lagoven: A New Vision**" II Latin American Hydrocarbon Congress, ARPEL, Rio de Janeiro, **Brazil**, September 1988, Vol.3, No.3, pp 187-195.

41. Bravo, C.T. , Mata A., and Ortiz, J.L. : "**Artificial Intelligence Applied to Gas Lift : DIALOGO System**" Work presented in the VII Lagoven's Technical Congress, Amuay Refinery, **Venezuela**, January 1988.
42. Zimmerman, W. and Ortiz J.L.: "**Slug Flow Gas Lift**" Work presented in the French Venezuelan Multiphase Flow Seminar. Held in Intevep. Los Teques. **Venezuela**. September, 1987.
43. Ortiz, J.L.: "**Analysis and Diagnosis of Gas Lift Wells**" Work Presented in the First Artificial Lift Seminar Petroleos de Venezuela. Held in Lagoven. Maracaibo. **Venezuela**. September, 1985.
44. Ortiz, J.L.: "**Gas Lift Optimization Using SOLAG**". Work presented in the First Production Technology Congress held in Intevep. Los Teques. **Venezuela**. January 1985.
45. Araujo, M. and Ortiz, J.L.: "**Communication Tests in Gas Lift Wells**". Seventh Technical Seminar of the Venezuelan Society of Petroleum Engineers. SVIP. Caracas. **Venezuela**. 1984.
46. Ortiz, J.L.: "**Gas Lift Optimization**". Fifth Lagoven`s Technical Congress. Tía Juana. Lagoven. **Venezuela**. November 1983.

Links are provided for most of the references. In case there is interest I can provide copies of some of the publications/presentations as needed.