

EuroScicon Conference on

Applied Science, Biofuels & Petroleum Engineering

November 12-13, 2018 Athens, Greece

Int J Appl Sci Res Rev 2018, Volume: 5 DOI: 10.21767/2394-9988-C1-003

INNOVATION IN OIL AND GAS EXPLORATION

Cleveland M Jones¹, Francisco Celso Ponte Filho², Alexandre P Cabral² and Marco Antonio Palermo³

¹INOG/Instituto Nacional de Óleo e Gás, Brazil ²CEGeo/Centro de Excelência em Geociências, Brazil ³INEB/Instituto Nova Economia do Brasil, Brazil

Despite major technological breakthroughs in all phases and areas of the oil and gas (0&G) industry, exploratory activities continue to represent the gateway for the remaining phases of the industry. Development and production phases depend on a successful exploration phase, and better performance, such as more effective hydrocarbon finding methods and less expensive, faster exploration campaigns that drive more industry activity. In light of the impact of the efficacy and efficiency of exploration activities on the other phases of the 0&G industry, a review of the most promising new technological innovations in geophysical exploration model that it has long been employing, so that it can benefit from new technologies available for conducting its exploration activities. However, recent success cases point to the adoption of a new paradigm in the exploration model of the industry. Major technological advances that may impact the 0&G industry positively, with step changes in competitiveness in identifying new hydrocarbon accumulations, are centered on new, direct confined fluid sensing methods. Better operational performance, both in exploration and production phases, will continue to be provided by incremental seismic performance.

clevelandmjones@gmail.com