

PETROLEUM SYSTEMS OF THE POTIGUAR BASIN

POTIGUAR BASIN

EXECUTIVE SUMMARY

- 1. INTRODUCTION**
- 2. REGIONAL GEOLOGY**
- 3. EXPLORATORY HISTORY**
- 4. ELEMENTS OF THE PETROLEUM SYSTEMS**
 - 4.1 SOURCE ROCKS AND HYDROCARBONS**
 - 4.1.1. PENDÊNCIA FORMATION**
 - 4.1.2. ALAGAMAR FORMATION**
 - 4.2 RESERVOIRS, SEALS AND TRAPS**
 - 4.2.1. PENDÊNCIA (!) PETROLEUM SYSTEM**
 - 4.2.1. ALAGAMAR-AÇU (!) PETROLEUM SYSTEM**

- 5. PROCESSES OF THE PETROLEUM SYSTEMS (MODELING)**

- 5.1. Geological Characteristics**

- 5.2. Model Calibration**

- 5.3. Results**

- 5.3.1. Maturation**

- 5.3.2. Migration**

- 5.3.3. Accumulation**

- 5.3.4. Preservation**

- 5.3.5. Modeling conclusions**

- 6. CONCLUSIONS & EXPLORATORY IMPLICATIONS**

APPENDIX I

LIST OF ROCKS AND OIL SAMPLES

QUANTITATIVE RESULTS OF ROCK-EVAL AND BIOMARKERS

APPENDIX II

ANALYTICAL PROCEDURES

SUMMARY SHEETS – SATURATES

SUMMARY SHEETS – AROMATICS

SUMMARY SHEETS – GC-MS-MS

GEOCHEMICAL LOGS

APPENDIX III

CROSS-SECTION MODELING