



ENHANCED OIL RECOVERY (IOR)



This is one of the most developed activities by VYP with nearly 200 Waterflooding studies of various kinds. Additionally, VYP has carried out selection studies and analysis of feasibility for the application of other methods of enhanced recovery (EOR), having agreements of technical collaboration with companies specialized in chemical EOR methods.

SERVICES

- Design and sizing of secondary recovery projects by waterflooding in large scale and/or pilot projects.
- Management of ongoing waterflooding processes. Analysis and proposals for improvements by injection and production optimization, pattern changes and infill drilling.
- Feasibility analysis for the application of enhanced oil recovery methods (steam, polymers, surfactants, CO₂, N₂, alternating water and gas injection), design of tests programs of laboratory and field.

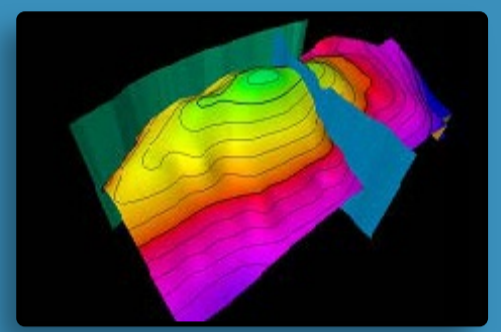
CASES EVALUATED, METHODOLOGY OF ANALYSIS

STATIC AND DYNAMIC MODEL VALIDATION

1

STATIC MODEL AND VALIDATION

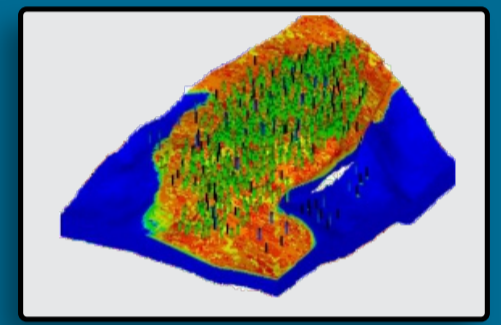
- | | |
|---------------|------------------------|
| Static Model | Information Validation |
| Structural | Original Conditions |
| Stratigraphic | Fluid Properties |
| Properties | Petrophysics |
| (PHI, K, SW) | Production Allocation |



2

OOIP ESTIMATION

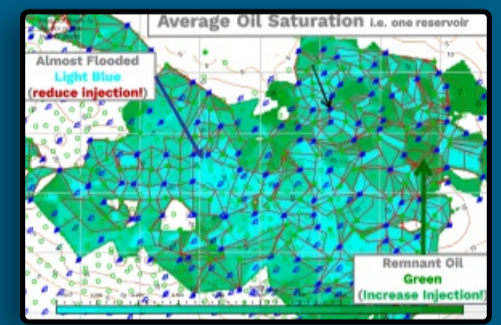
- Based on:
 Static Model
 Petrophysical and Fluid Data Analysis
 Forecast by Natural Energy per Reservoir



3

RESERVOIR SIMULATION

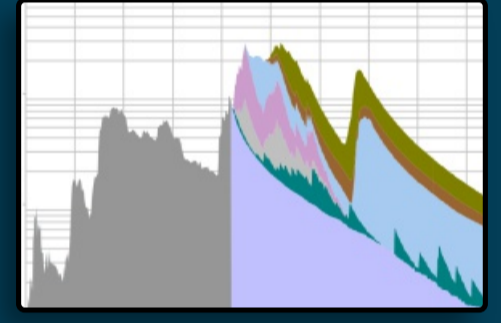
- Selection of Calculation Tool
 Model Construction
 Rock and Fluid Properties Model
 History Match



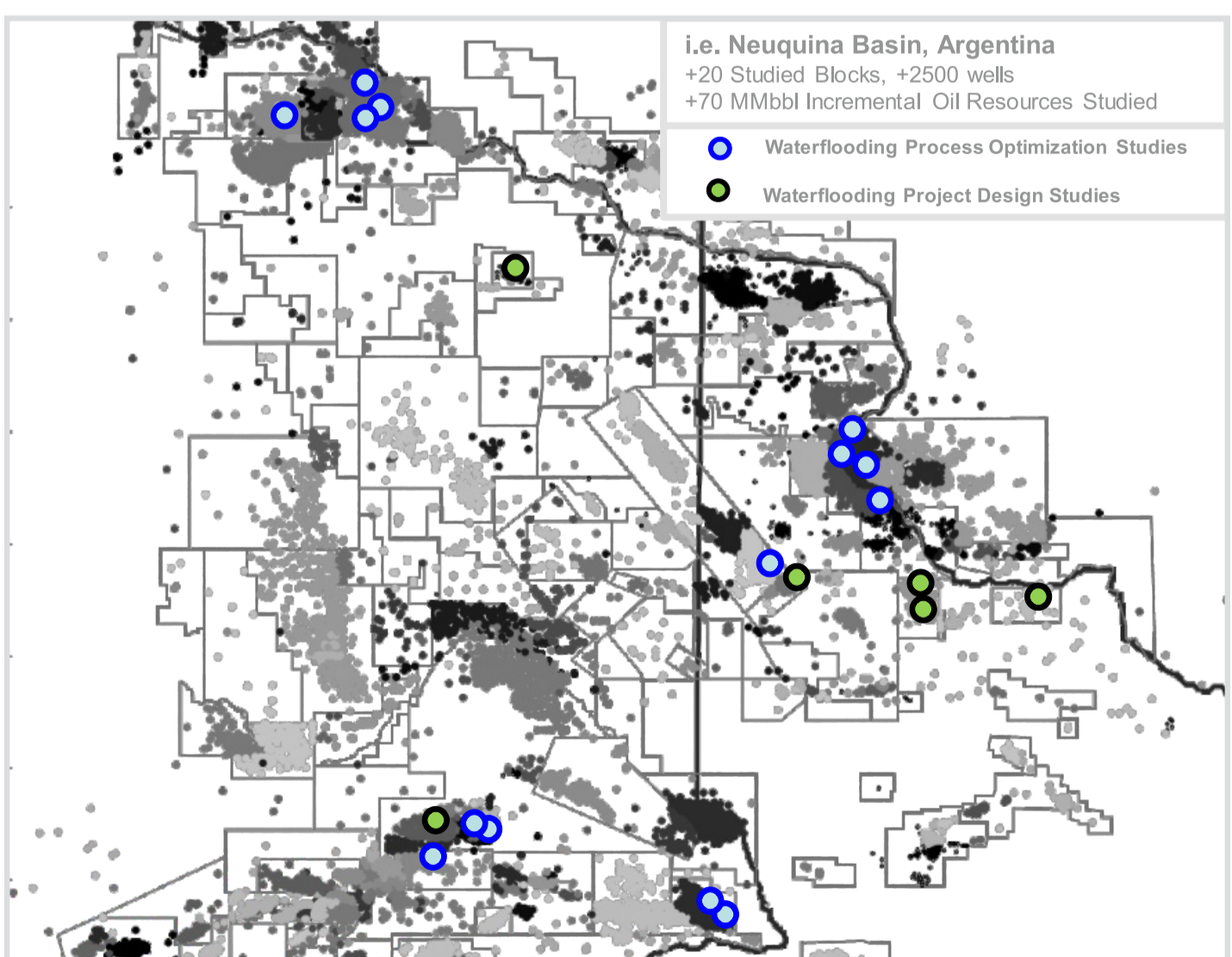
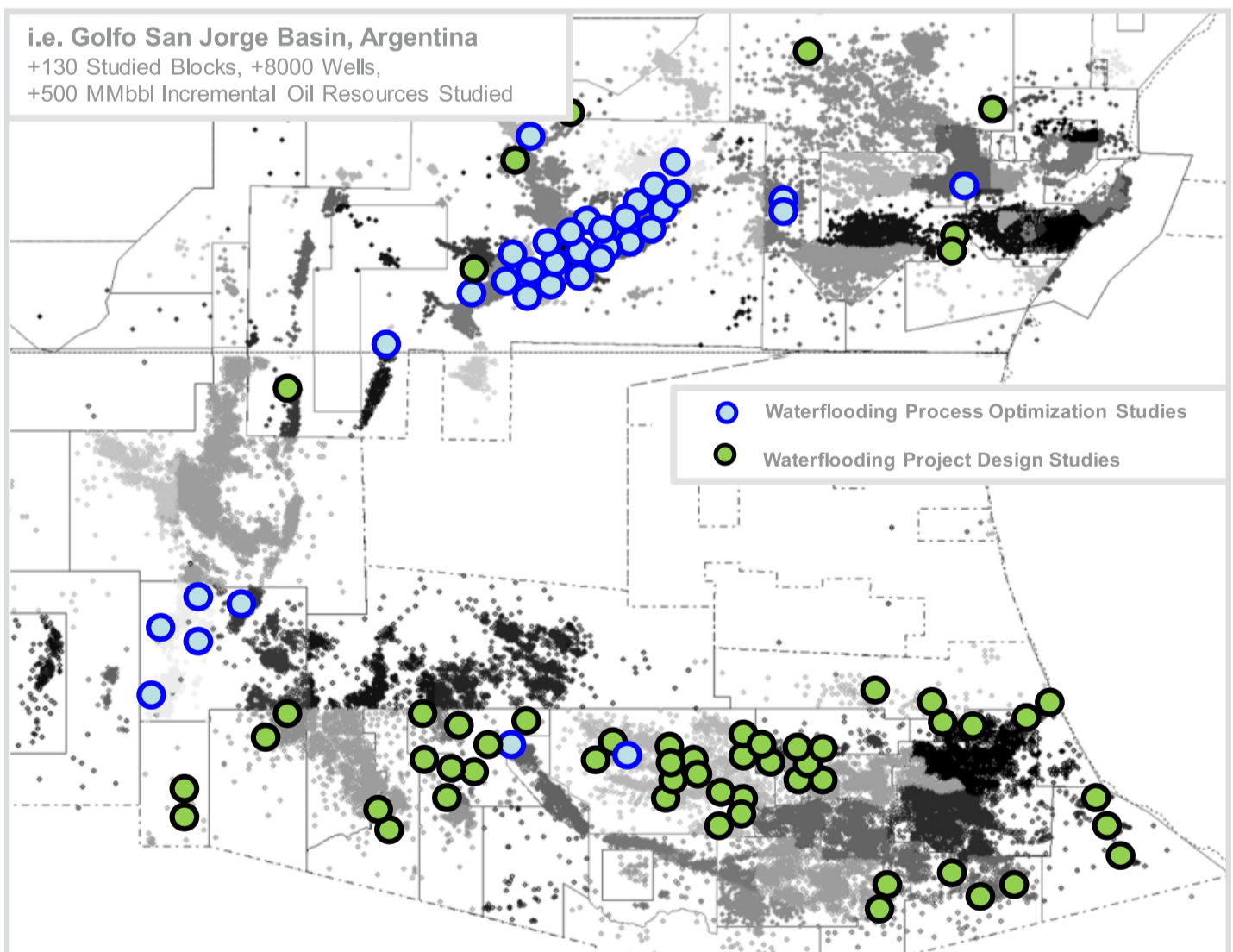
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FORECASTS, ECONOMY AND RISKS

- Definition of Optimization Scenarios
 Forecasts
 Economic and Risk Analysis
 Selection of Optimal Case
 Follow up and Monitoring



WATERFLOODING (WF) STUDY CASES



OTHER INTERNATIONAL CASES (Basin/Country)

- | | | | | | | |
|--------------------------|--------------------------------|------------------------------|----------------------------|------------------------------|-----------------------|-----------------------------|
| Asri
Indonesia | Baran Delta
Malaysia | Chicontepec
México | Cuyana
Argentina | Magdalena
Colombia | Talara
Peru | Maturín
Venezuela |
|--------------------------|--------------------------------|------------------------------|----------------------------|------------------------------|-----------------------|-----------------------------|



CONTACTS

📍 Talcahuano 638, 5to Piso E (1013) Ciudad de Buenos Aires, Argentina
 ☎ +54 9 (11) 5692 9433 +54 9 (11) 6518 6621
 ✉ contacto@vyp.com.ar
 🌐 www.vyp.com.ar