



# State of Louisiana

## DEPARTMENT OF CONSERVATION AND ENERGY ENHANCED RECOVERY PROJECT QUESTIONNAIRE

Complete And Return To:  
P.O. Box 94275  
Baton Rouge, LA 70804-9275

Operator: \_\_\_\_\_ Date: \_\_\_\_\_

Note: Data given herein reflects the status of the project as of \_\_\_\_\_

### I. GENERAL INFORMATION

Field: \_\_\_\_\_ Conservation District: \_\_\_\_\_

Parish: \_\_\_\_\_ Reservoir: \_\_\_\_\_

Name of lease (or leases) in project: \_\_\_\_\_

List other Operators active in this project: \_\_\_\_\_

Mark Which Type of Project Is Planned:

- |                                 |                                    |
|---------------------------------|------------------------------------|
| 1. Gas Injection                | 4. Thermal Methods                 |
| a. Dispersed _____              | a. Forward Combustion _____        |
| b. Crestal _____                | b. Reverse Combustion _____        |
| 2. Improved Gas Drives          | c. Stream Combustion Gas _____     |
| a. Miscible Slug LPG _____      | 5. Miscellaneous Projects          |
| b. Miscible Slug Alcohols _____ | Single Well Reservoirs             |
| c. Enriched L.P.G. Gas _____    | Alternate Production and Injection |
| 3. Waterflooding                | a. Updip Recovery _____            |
| a. Pattern _____                | b. Downdip Recovery _____          |
| b. Peripheral _____             |                                    |
| 6. Other (Specify): _____       |                                    |

### II. RESERVOIR INFORMATION

- Completion date of first well in reservoir: \_\_\_\_\_
- Wells currently drilled: \_\_\_\_\_  
Oil \_\_\_\_\_  
Gas \_\_\_\_\_  
Water \_\_\_\_\_  
Proposed Injection \_\_\_\_\_  
Plugged & Abandoned \_\_\_\_\_  
Alternate Injection and Production \_\_\_\_\_  
TOTAL \_\_\_\_\_
- Original Productive area of reservoir: \_\_\_\_\_ acres
- Type of structure (Indicate Dip): \_\_\_\_\_  
(attach field plat, cross-section and structure map)
- Original reservoir pressure: \_\_\_\_\_ psi Date: \_\_\_\_\_
- Latest reservoir pressure: \_\_\_\_\_ psi Date: \_\_\_\_\_
- Type of Drive Mechanism present and degree to which each was effective:  
    a. Originally: \_\_\_\_\_  
    b. Currently: \_\_\_\_\_
- Average depth of top of pay: \_\_\_\_\_ feet
- Average effective thickness (oil & gas): \_\_\_\_\_ feet
- Average effective oil sand thickness: \_\_\_\_\_ feet
- Area of oil sand: \_\_\_\_\_ acres
- Average effective gas sand thickness: \_\_\_\_\_ feet
- Area of gas sand: \_\_\_\_\_ acres
- Average effective porosity: \_\_\_\_\_ %
- Average horizontal permeability: \_\_\_\_\_ md Range: \_\_\_\_\_
- Average vertical permeability: \_\_\_\_\_ md

### III. FLUID CONTENT CHARACTERISTICS

- |                                                |       |         |
|------------------------------------------------|-------|---------|
| 1. API gravity:                                | _____ | API     |
| 2. Viscosity of oil (centipoises):             | _____ | cp      |
| 3. Saturation pressure:                        | _____ | psi     |
| 4. Solution GOR at saturation pressure:        | _____ | mcf/bbl |
| 5. Connate water content (% of pore space):    | _____ | %       |
| 6. Present average GOR:                        | _____ | mcf/bbl |
| 7. Enrichment of produced gas (Pentanes plus): | _____ |         |

IV. PRODUCTION HISTORY

NOTE: Attach graphic history of oil, gas, water production, BHP and water and/or gas injection, if any, from discovery to present.

1. Cumulative Production to (date):

a. Oil

b. Gas

c. Water

bbls

mcf

bbls

2. Estimated original oil in place:

bbls

3. Ratio of gas cap volume to oil volume:

4. Gas/Oil ratio trend:

5. Warter Cut trend:

6. Rate of pressure decline (psi per month):

psi/mo

7. Present average well density in acres per well:

8. Present estimated oil saturation (% of pore space):

%

9. Average daily production as of (date):

a. Oil

b. Gas

c. Water

bbls

mcf

bbls

10. Original estimated production life:

V. UNITIZATION INFORMATION

1. Is this project presently covered by an Office of Conservation Order?

Order No.

Effective Date:

2. Date injection and/or cycling began or proposed:

VI. WATER INJECTION INFORMATION

1. Source of injected water

2. Fresh or Salt water

3. Treatment, if any, before injection:

4. Proposed average daily injection rate:

bbls/day

5. Number of proposed injection wells:

6. Average distance from injection well to producing well:

7. Is water (to be) injected below water/oil contact?

8. Has this reservoir undergone gas injection?

If so, give details, amounts of gas injected and resume of results:

VII. GAS INJECTION INFORMATION

1. Type of injection gas:

2. Source of injected gas:

a. Is gas purchased?

If so, from whom?

3. Is gas (to be) processed before injection?

4. Proposed average daily injection rate:

mcf/day

5. Number of proposed injection wells as of (date):

6. Average distance from injection well to producing well:

7. Is gas (to be) injected in gas cap, oil zone, or water zone?

8. Has this reservoir undergone water injection?

If so, give details, amounts of gas injected and resume of results:

VIII CYCLING INFORMATION

1. Describe cycling operation on separate sheet and attach schematic diagram.

2. Estimated average initial cost for cycling installation per well:

3. Complete Section VII above.

IX. PRESENT PREDICTION OF RESULTS

|                                               |             | With Project | Without Project |
|-----------------------------------------------|-------------|--------------|-----------------|
| 1. Estimated ultimate recovery from gas sand: | (bbls)      |              |                 |
| 2. Estimated ultimate recovery from oil sand: | (bbls)      |              |                 |
| 3. Estimated ultimate recovery from gas sand: | (bbls/AcFt) |              |                 |
| 4. Estimated ultimate recovery from oil sand: | (bbls/AcFt) |              |                 |
| 5. Estimated recovery - TOTAL:                | (bbls/AcFt) |              |                 |
| 6. Estimated increase in ultimate recovery    | (bbls/AcFt) |              |                 |
| 7. Estimated ultimate recovery from gas sand: | (%)         |              |                 |

X. RECOMMENDATIONS AND REMARKS

1. On a separate sheet, explain why is an injection program necessary to aid the primary mechanism?

2. On a separate sheet, describe the present producing mechanism and how it is expected to be affected by the injection program.
3. On a separate sheet, supply recommendations as to how the Office of Conservation could help institute and maintain Enhanced Recovery projects.

Completed by:

Title:

Future Inquiries should be Addressed to: