



State of Louisiana

DEPARTMENT OF NATURAL RESOURCES OFFICE OF CONSERVATION ENHANCED RECOVERY PROJECT QUESTIONNAIRE

Complete And Return To:
Engineering Division
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

- API gravity: _____ API
- Viscosity of oil (centipoises): _____ cp
- Saturation pressure: _____ psi
- Solution GOR at saturation pressure: _____ mcf/bbl
- Connate water content (% of pore space): _____ %
- Present average GOR: _____ mcf/bbl
- 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 _____ bbls
 - b. Gas _____ mcf
 - c. Water _____ bbls
- 2. Estimated original oil in place: _____ bbls
- 3. Ratio of gas cap volume to oil volume: _____
- 4. Gas/Oil ratio trend: _____
- 5. Water 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 _____ bbls
 - b. Gas _____ mcf
 - c. Water _____ 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: _____