

OIL AND GAS DOCKET NO. 06-0255498

THE APPLICATION OF EXXON MOBIL CORPORATION TO AMEND THE FIELD RULES FOR THE TRAWICK (PETTIT) FIELD, NACOGDOCHES AND RUSK COUNTIES, TEXAS

Heard by: Donna K. Chandler on March 7, 2008

Appearances:

Tim George
Richard Wachtman
Jason Mullins

Representing:

Exxon Mobil Corporation

EXAMINER'S REPORT AND RECOMMENDATION

STATEMENT OF THE CASE

Field rules for the Trawick (Pettit) Field were adopted in Oil and Gas Docket No. 6-54,714, effective March 1, 1965, as amended. The rules are summarized as follows:

1. Designation of the field as the correlative interval from 7,425 feet to 7,955 feet as shown on the log of the Trawick Gas Unit 1 Well No. 1;
2. 660'-1,320' well spacing;
3. 640 acre gas units with optional 160 acre units;
4. allocation based on 100% acreage, with AOF status.

Exxon Mobil requests that the field rules be amended to provide for 467'-933' well spacing and optional 80 acre density. This application was unopposed and the examiner recommends that the field rules for the Trawick (Pettit) Field be amended as proposed by Exxon Mobil.

DISCUSSION OF EVIDENCE

The Trawick (Pettit) Field was discovered in 1949 at a depth of approximately 7,050 feet. The field is an associated gas field with about 50 gas wells and one shut-in oil well. Exxon Mobil operates all of the wells in the field except for two gas wells operated by Samson Lone Star, LLC and one gas well operated by The Daniels Corporation.

The Trawick (Pettit) Field is basically depleted. Current production from all wells in the field is about 10 MMCFD, but many wells produce less than 100 MCFD. Wells are not drilled for the Pettit alone, but the Pettit is routinely completed as a “tag along” with Travis Peak completions.

The Pettit formation is composed of the Upper and Lower Pettit, with the Lower Pettit further divided into the P2 and Transition Zone. The Upper Pettit has much better porosity and permeability than the Lower Pettit, and the Upper Pettit has been mostly depleted. The Lower Pettit intervals are very lenticular and development on a denser pattern is necessary to recover the remaining reserves.

Exxon Mobil presented drainage calculations for three wells in the field. The Trawick Gas Unit 17 No. 1 is an Upper Pettit completion. This well is expected to ultimately recover 22.2 BCF of gas. With 9% porosity and 61 feet of pay, the calculated drainage area for the well is 631 acres. The Trawick Gas Unit 11 No. 7 is a Lower Pettit completion and is expected to ultimately recover 781 MMCF of gas. This well has only 26 feet of pay and will drain 76 acres. The Trawick Gas Unit 10 No. 9 is also a Lower Pettit completion and estimated ultimate recovery for the well is 647 MMCF. This well has 20 feet of pay and will drain 72 acres.

Exxon Mobil requests 467'-933' well spacing, which is the spacing normally associated with 40 acre density. However, the requested rules are consistent with rules governing the Trawick (Travis Peak) Field. Similar rules will provide opportunities for Rule 10 exceptions and dual completions between the two fields, without the need to obtain Rule 37 exceptions.

FINDINGS OF FACT

1. Notice of this hearing was given to all persons entitled to notice and no protests were received.
2. The Trawick (Pettit) Field was discovered in 1949 at a depth of approximately 7,000 feet. The field is an associated gas field with about 50 gas wells and one shut-in oil well.
3. Rules currently in effect for the field provide for a designated interval, 660'-1,320' well spacing, 640/optional 160 acre density, and 100% acreage allocation.
4. An optional 80 acre density rule is appropriate for the field.
 - a. The Upper Pettit is basically depleted and the Lower Pettit has poorer

porosity and permeability than the Upper Pettit, which necessitates the need for denser development of the Lower Pettit.

- b. The Trawick Gas Unit 11 No. 7 is a Lower Pettit completion and is expected to ultimately recover 781 MMCF of gas. The calculated drainage area for the well is 76 acres.
 - c. The Trawick Gas Unit 10 No. 9 is a Lower Pettit completion and estimated ultimate recovery for the well is 647 MMCF. The calculated drainage area for this well is 72 acres.
5. The requested 467'-933' well spacing rule is consistent with the spacing rule for the Trawick (Travis Peak) Field, with which wells in the Pettit have been commingled and dually completed..

CONCLUSIONS OF LAW

- 1. Proper notice of this hearing was issued.
- 2. All things have been accomplished or have occurred to give the Commission jurisdiction in this matter.
- 3. Amending the field rules for the Trawick (Pettit) Field is necessary to prevent waste, protect correlative rights and promote development of the field.

RECOMMENDATION

Based on the above findings and conclusions of law, the examiner recommends that the Commission amend the field rules for the Trawick (Pettit) Field as proposed by Exxon Mobil Corporation.

Respectfully submitted,

Donna K. Chandler
Technical Examiner