Exhibits 1 through 4

DOCKET: Examiners Hearing - Thursday - April 8, 1993

Case #10696

STRANGE FEDERAL #5

Exhibit #1 Map

Exhibit #2 Offset Operators

Exhibit #3 Horizontal Drilling Procedure

Exhibit #4 Schematic

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STRANGE FEDERAL #5
Section 25, T7S, R31E

Offset Operators:

Yates Petroleum Corporation 105 South 4th Artesia, NM 88210

Nauman Oil & Gas, Inc. P.O. Box 10159 Midland, Texas 79702

Kerr-McGee Corporation P.O. Box 11050 Midland, Texas 79701

Murphy Operating Corporation P.O. Box 2648 Roswell, NM 88202

Docket: Examiners Hearing - Thursday, April 8, 1993

EXHIBIT #3

Case #10696

STRANGE FEDERAL #5

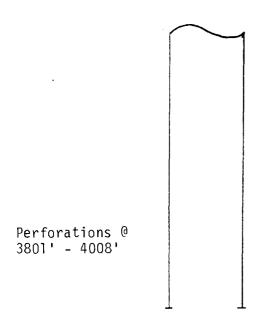
Unit N & Unit M, S/2 SW/4, Section 25 T7S, R31E Tomahawk San Andres Field Chaves County, New Mexico

HORIZONTAL DRILLING PROCEDURE

- 1. Set cement retainer @ 4024 feet. Cement squeeze perforations 4040' to 4233'.
- 2. Set packer @ 3500'. Cement squeeze perforations 3801' to 4008'.
- 3. Drill out cement to 4024'.
- 4. Mill section in $5\frac{1}{2}$ " casing from approximately 3954' to 4014'. Set cement plug. Drill out cement to approximately 3984'.
- 5. Run directionsl survey.
- 6. Kickoff cement plug at approximately 3984'.
- 7. Drill 60 feet radii curve to an inclination of approximately 85 to 90 degrees.
- 8. Conduct surveys every 5 feet of the arc.
- 9. Drill laterally approximately 1200' + in a westerly direction, thru a vertical depth of approximately 4044' to 4080^T.
- 10. Conduct surveys every 30 feet in the lateral.
- 11. A distance of 100 feet will be maintained by the horizontal hole from the outer boundaries of the two 40 acre tracts. The joining 40 acre boundary will be crossed.

Examiners Hearing - Thursday - April 8, 1993 Case #10696

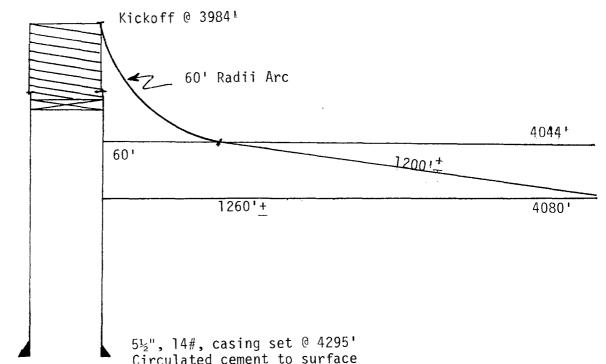
STRANGE FEDERAL #5



Mill 5½" casing 3954' - 4014'

Cement plug 3984' - 4024' Cement retainer @ 4024'

Perforations 4040' - 4233'





PETROLEUM DEVELOPMENT CORPORATION

9720-B CANDELARIA, NE ALBUQUERQUE, NEW MEXICO 87112 TELEPHONE (505) 293-4044

March 1, 1993

Mr. William J. LeMay-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, NM 87501

RE: Rule 111, Deviation Test and Directional Drilling

Dear Mr. LeMay,

Petroleum Development Corporation (PDC) applies for public hearing on April 8, 1993 to authorize the intentional deviation from the existing vertical hole using the following procedure:

- 1. Mill a 60^{+} foot section in the existing 5 1/2" casing.
- 2. A directional survey will be run to determine the location of the kick off point.
- 3. Drill a $60 \pm$ foot radii 85° to 90° into the P2 San Andres pay zone.
- 4. Horizontally drill 800 the feet into the pay zone.
- 5. Adequate directional surveys will be run in the deviated hole.
- 6. The horizontal hole will be maintained a distance of 100 feet from any boundary of the two 40 acre spacing tracts, except the boundary joining the two 40 acre spacing tracts, which the horizontal hole will cross.

PDC request permission to horizontally drill the following wells:

TOMAHAWK San Andres Field

Strange Federal #5, Unit N, Section 25, T7S, R31E.
Located 660' FSL and 1980' FWL, using the adjoining Unit M,
Section 25, T7S, R31E, to form an 80 acre spacing unit.

PDC request two 40 acre spacing allowables be assigned to Strange Federal #5, in this case, would be 160 barrels of oil per day.

Attached is a list of offset operators with their correct mailing address.

Sincerely,

J. e. Johnson

President

Attachment

Murphy Operating Corporation P. O. Box 2648 Roswell, NM 88202

Yates Petroleum Corporation 105 South 4th Artesia, NM 88210

Nauman Cil And Gas, Inc. P. O. Box 10159 Midland, TX 79702

Kerr-McGee Corporation Box 11050 Midland, TX 79701

Form 3800, MURPHY OPERTING CORPORATE P O BOX 2648 ROSWELL NM 88202 Fold at line over top of envelope to the right of the return address CERTIFIED March 40,1775 428 560 505 MAIL TOTAL Postage \$ & Fees PS Form 3800, Postmark or Date YATES PETROLEUM CORPORI 105 SOUTH 4th ARTESIA NM 88210 Fold at line over top of envelope to the right of the return address P 428 560 504 MAIL 3800 Postmark or Date NAUMAN OIL & GAS INC Form P O BOX 10159 MIDLAND TX 79702 Fold at line over top of envelope to the right of the return address P 428 560 503 MAIL TOTAL Postage Form 3800 Postmark or Date KERR MCGEE CORPORATION BOX 11050 S MIDLAND TX 79701 Fold at line over top of envelope to the right of the return address CERTIFIED P 428 560 502

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