

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 |

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

EXHIBIT #2

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

Case #10696

STRANGE FEDERAL #5

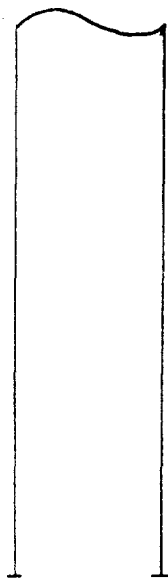
Unit N & Unit M, S/2 SW/4, Section 25
T7S, R31E
Tomahawk San Andres Field
Chaves County, New Mexico

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 5½" casing from approximately 3954' to 4014'. Set cement plug. Drill out cement to approximately 3984'.
5. Run directional 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'.
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.

STRANGE FEDERAL #5

Perforations @
3801' - 4008'

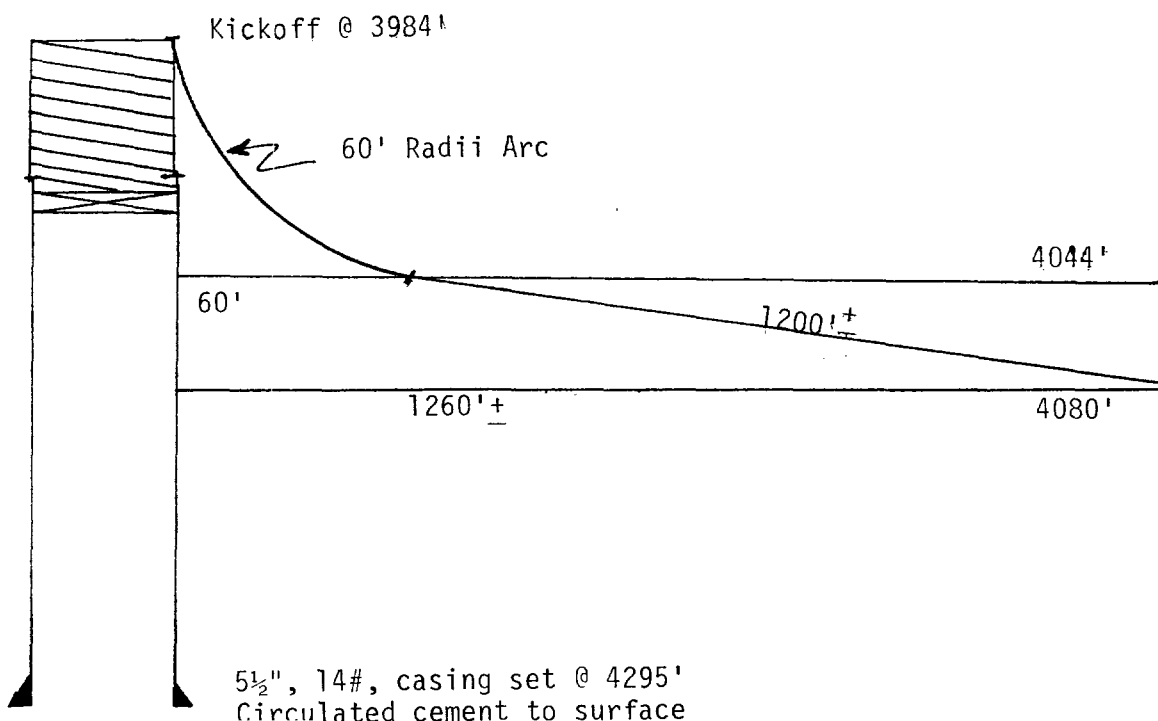


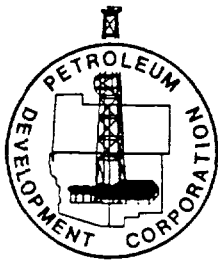
Mill 5½" casing
3954' - 4014'

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 \pm 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 $^{\circ}$ to 90 $^{\circ}$ into the P2 San Andres pay zone.
4. Horizontally drill 800 \pm 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 Oil And Gas, Inc.
P. O. Box 10159
Midland, TX 79702

Kerr-McGee Corporation
Box 11050
Midland, TX 79701

MURPHY OPERTING CORPORAT
P O BOX 2648
ROSWELL NM 88202

PS Form 3800, J

| | |
|-------------------------|----|
| TOTAL Postage & Fees | \$ |
| Postmark or Date | |

Fold at line over top of envelope to the
right of the return address

CERTIFIED

P 428 560 505

MAIL

YATES PETROLEUM CORPOR
105 SOUTH 4th
ARTESIA NM 88210

PS Form 3800, J

| | |
|-------------------------|----|
| TOTAL Postage & Fees | \$ |
| Postmark or Date | |

Fold at line over top of envelope to the
right of the return address

CERTIFIED

P 428 560 504

MAIL

NAUMAN OIL & GAS INC
P O BOX 10159
MIDLAND TX 79702

PS Form 3800, J

| | |
|------------------|--|
| Postmark or Date | |
|------------------|--|

Fold at line over top of envelope to the
right of the return address

CERTIFIED

P 428 560 503

MAIL

KERR MCGEE CORPORATION
BOX 11050
MIDLAND TX 79701

PS Form 3800, J

| | |
|-------------------------|----|
| TOTAL Postage & Fees | \$ |
| Postmark or Date | |

Fold at line over top of envelope to the
right of the return address

CERTIFIED

P 428 560 502

MAIL

all letters sent March 10, 1975

- SENDER:**
- Complete items 1 and/or 2 for additional services.
 - Complete items 3, 4a & b.
 - Print your name and address on the reverse of this form so that we can return this card to you.
 - Attach this form to the front of the mailpiece, or on the back if space does not permit.
 - Write "Return Receipt Requested" on the mailpiece below the article number.
 - The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Updated Nationalism Exp
706 South 22th
Olatheia NM 88210
Johnny Hunter

4a. Article Number

P 428 560 504

4b. Service Type

☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
MAR 12 1993

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, November 1990 *U.S. GPO: 1991-287-068

DOMESTIC RETURN RECEIPT

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Nauman O & G Inc
PO Box 10159
Midland TX 79702

4a. Article Number

P 428 560 503

4b. Service Type

☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
MAR 15 1993

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, November 1990 *U.S. GPO: 1991-287-068

DOMESTIC RETURN RECEIPT

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 - The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Murphy Operating Co
PO Box 2648
Paswell NM 88203

4a. Article Number

P 428 560 505

4b. Service Type

☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
MAR 20 1993

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, November 1990 *U.S. GPO: 1991-287-068

DOMESTIC RETURN RECEIPT

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Kern-Maque Corp
Box 11050
Midland TX 79701

4a. Article Number

P 428 560 502

4b. Service Type

☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
3-12-93

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, November 1990 *U.S. GPO: 1991-287-068

DOMESTIC RETURN RECEIPT

P 428 560 503



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

| | |
|--|---------|
| Sent to <i>Wheuman O+9 Inc</i> | |
| Street and No. <i>PO Box 10159</i> | |
| P.O., State and ZIP Code <i>Midland TX 79702</i> | |
| Postage | \$.29 |
| Certified Fee | 1.00 |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to Whom & Date Delivered | 1.00 |
| Return Receipt Showing to Whom, Date, and Addressee's Address | |
| TOTAL Postage & Fees | \$ 2.29 |
| Postmark or Date <i>MAR 10 1993</i> | |

P 428 560 502



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

| | |
|--|---------|
| Sent to <i>Kerr-McGee Corp</i> | |
| Street and No. <i>Box 11050</i> | |
| P.O., State and ZIP Code <i>Midland TX 79701</i> | |
| Postage | \$.29 |
| Certified Fee | 1.00 |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to Whom & Date Delivered | 1.00 |
| Return Receipt Showing to Whom, Date, and Addressee's Address | |
| TOTAL Postage & Fees | \$ 2.29 |
| Postmark or Date <i>MAR 10 1993</i> | |

P 428 560 505



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

| | |
|--|---------|
| Sent to <i>Murphy Oper Corp</i> | |
| Street and No. <i>PO Box 2648</i> | |
| P.O., State and ZIP Code <i>Roswell NM 88202</i> | |
| Postage | \$.29 |
| Certified Fee | 1.00 |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to Whom & Date Delivered | 1.00 |
| Return Receipt Showing to Whom, Date, and Addressee's Address | |
| TOTAL Postage & Fees | \$ 2.29 |
| Postmark or Date <i>MAR 10 1993</i> | |

P 428 560 504



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

| | |
|--|---------|
| Sent to <i>Waters Pet Corp</i> | |
| Street and No. <i>105 South 4th</i> | |
| P.O., State and ZIP Code <i>Artesia NM 88210</i> | |
| Postage | \$.29 |
| Certified Fee | 1.00 |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to Whom & Date Delivered | 1.00 |
| Return Receipt Showing to Whom, Date, and Addressee's Address | |
| TOTAL Postage & Fees | \$ 2.29 |
| Postmark or Date <i>MAR 10 1993</i> | |