

Joe D. Ramey, Director Oil Conservation Division Energy and Minerals Department State of New Mexico P.O. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

Please consider for administrative approval our proposed unorthodox location of a <u>Morrow test</u> to 11,860' to be located <u>990' FEL</u> and <u>1980' FSL</u> of Section <u>21</u>, <u>T22S</u>, <u>R27E</u>.

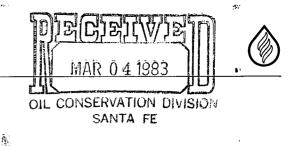
The reasons dictating this request are geological and the appropriate geologic exhibits are attached. Also attached are the names and addresses of all offset operators of proration or spacing units. Each has been notified by Certified or Registered Mail of this application for administrative approval of the unorthodox location.

Sincerely,

Michael R. Burton Senior Drilling Engineer

MRB/1cs attachments.

7200 I-40 West Amarillo, Texas 79106 806/359-2000 TWX 910-898-4111



February 22, 1983

Richard L. Stamets Technical Support Chief Oil Conservation Division Energy and Minerals Department State of New Mexico P.O. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

As per our telephone conversation of February 18, we are enclosing in triplicate:

1. Letter requesting administrative approval of unorthodox location.

2. Plat showing acreage dedicated.

- 3. Geologic exhibits.
- 4. Form C-101.
- 5. Form C-102.

An extra copy of all of this has been sent to the District Office in Artesia.

Sincerely,

Michael R. Burton Senior Drilling Engineer

MRB/1cs enclosures

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Date: 1-83

Central Division-Permian Basin District 7200 I-40 West Amarillo, Texas 79106 806/359-2000 TWX 910-898-4111

OIL CONSERVATION DIVISION SANTA FE

February 28, 1983

Re: Geologic Exhibits

Richard L. Stamets Technical Support Chief Oil Conservation Division Energy and Minerals Department State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

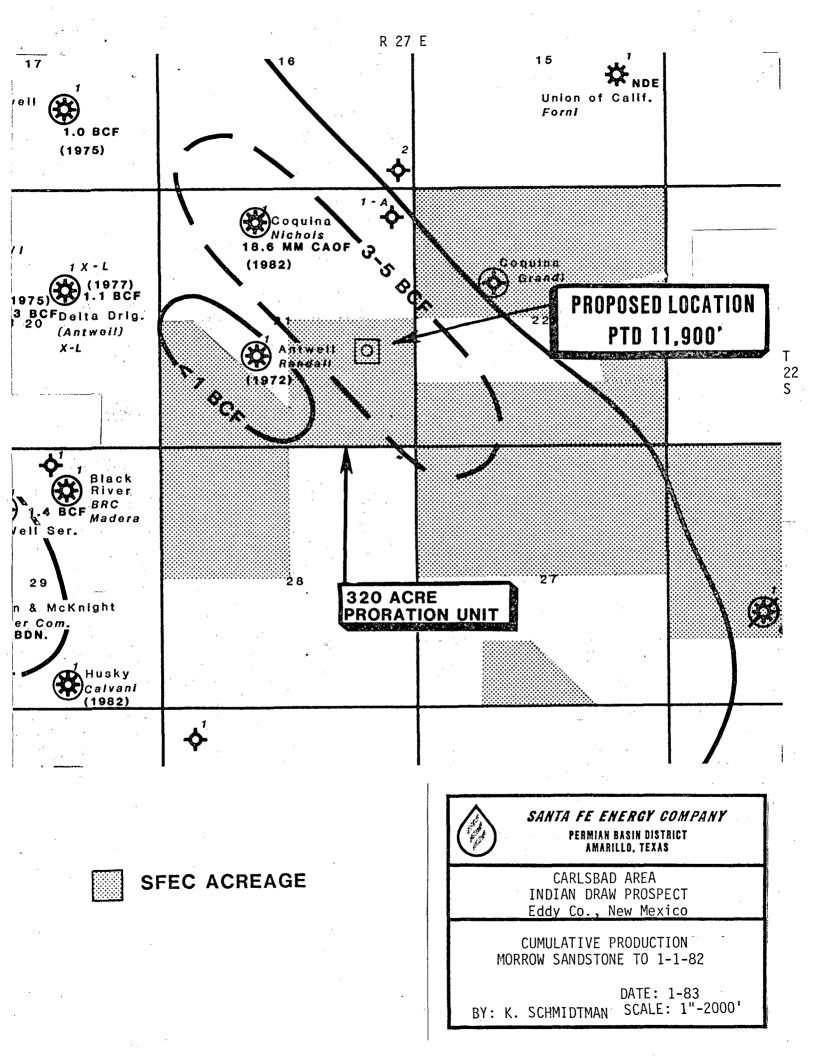
The Santa Fe Energy, Exploration Department is proposing an unorthodox location (1980' FSL and 990' FEL) in Section 21, T22S, R27E, Eddy County, New Mexico. Reasons for this location are as follows:

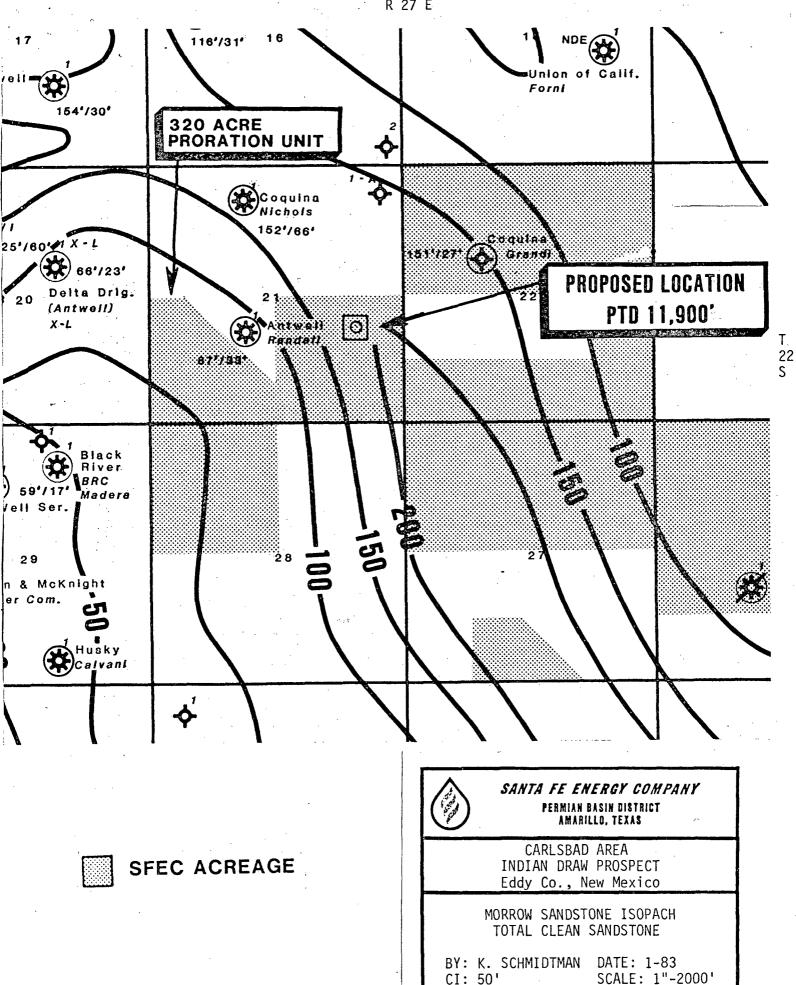
- Isopaching of clean Morrow Sands indicates the trend of sand reservoirs trends in a northwestsoutheast direction.
- (2) A cumulative gas production map of the Morrow sands indicates best production is oriented in a northwestsoutheast direction. This information supports the Morrow sand isopach (Map 1).
- (3) The Morris Antweil #1 Randall (1980' FNL and 1980' FSL, Section 21, T22S, R27E) is a poor well. It was plugged in 1976 and produced 49,612,000 CFG. Santa Fe Energy proposed location would be 2310' east of this well.
- (4) Coquina #1 Nicols (660' FNL and 1980' FWL, Section 21, T22S, R27E) drilled in April, 1982, encountered an excellent Morrow reservoir. The well potentialed for 18.6 million cubic feet of gas per day, CAOF.

The location Santa Fe Energy Company has proposed is the most logical one based upon knowledge of sand trends, good reservoir conditions and production data in extending gas production to the southeast in South Carlsbad Area.

Yours truly, Bill A. Schaefer, Jr Exploration Manager

A Santa Fe Industries Company





R 27 E

| NO. OF COPIES RECEIVED  | NEW MEXICO OIL CONS           | ERVATION COMMISSI        | 1983<br>N      | Form C-101         |                         |
|---|-------------------------------|--------------------------|----------------|--------------------|-------------------------|
| SANTA FE  |                               | ALL SERVA                | TION DIVIS     | Tevised I-I-6:     | Type of Lease           |
| FILE  |                               | OIL CONSERN              | TA FE          | SA. Indicate       |                         |
| U.S.G.S.  |                               |                          | Ĺ              |                    | Gas Lease No.           |
|   |                               |                          |                | 5. State Off (     | & Gds Ledse No.         |
| OPERATOR  |                               |                          |                |                    |                         |
|   |                               |                          |                |                    |                         |
| APPLICATION FOR P   | ERMIT TO DRILL, DEEPEN        | , UR PLUG BACK           | ·              | 7. Unit Agree      | ment Name               |
| la. Type of work  |                               |                          |                | /, Unit Agree      | ament tagme             |
| b. Type of Well DRILL X   | DEEPEN                        | PLUC                     | ЗВАСК          | 8, Farm or Le      | ease Name               |
| OIL GAS WELL OT   | HER                           | SINGLE M                 | ZONE           | Walker             | ,                       |
| 2. Name of Operator   |                               | <u> </u>                 |                | 9. Well No.        |                         |
| Santa Fe Energy Company   | -                             |                          |                | 1                  |                         |
| 3. Address of Operator  |                               |                          |                | 10. Field and      | l Pool, or WildcatUndes |
| 7200 I-40 West, Bldg. C.,   | Amarillo, Texas 79            | 9106                     |                | South              | Carlsbad Morrow         |
| 4. Location of Well UNIT LETTER   |                               | FEET FROM THE Cast       | LINE           |                    |                         |
| AND 1980 FEET FROM THE SC   | outh Line of sec. 21          | TWP. 22S RGE.            | 27Е ммрм       | ///////            |                         |
| $\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$ |                               |                          |                | 12. County<br>Eddy |                         |
|   |                               |                          |                |                    |                         |
|   |                               | 19. Proposed Depth       | 19A. Formation |                    | 20. Rotary or C.T.      |
| AIIIIIIIIIIIIIIIIIIIIIII  |                               | 11,860'                  | Morrow         |                    | Rotary                  |
| 21. Elevations (Show whether DF, RT, etc.)  | 21A. Kind & Status Plug. Bond | 21B. Drilling Contractor | · · · · · ·    | 22. Approx.        | Date Work will start    |
| GL  | Blanket                       | Unknown                  |                | Marc               | h 22, 1983              |
| 23.   | PROPOSED CASING A             | ND CEMENT PROGRAM        |                |                    |                         |

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP   |
|--------------|----------------|-----------------|---------------|-----------------|------------|
| 17 1/2"      | 13 3/8"        | 48              | 600           | 375             | Circulated |
| 12 1/4"      | 9 5/8"         | 36 .            | 5325          | 900             | Circulated |
| 8 3/4"       | 5 1/2"         | 17              | 11,860        | 1350            | 5325'      |

Drill 26" hole with rathole machine. Run and cement 40' of 20" conductor. Move in and rig up rotary tools. Drill 17 1/2" hole to 600' with fresh water spud mud. Run, set, and cement 13 3/8" casing. WOC 12 hours (compressive strength of cement to be 500 psi or greater). Install casinghead and nipple up BOP stack with choke manifold. Test BOP & casing to 600 psi. Drill 12 1/4" hole to 5325' with brine. Run open hole logs from TD to 2000'. Run, set and cement 9 5/8" casing. WOC 12 hours (compressive strength of cement to be 500 psi or greater). Test BOP and choke manifold to 5000 psi. Test spherical preventer to 2500 psi. Test casing to 2500 psi. Drill shoe and test casing seat to 14 ppg MWE. Drill 8 3/4" hole to 11,860' allowing hole conditions to dictate mud properties. Run DST's and core as indicated by samples and shows. Run open hole logs from TD to 5325'. Run, set and cement 5 1/2" casing. Gas is not designated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUC-TIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Michael L. Buiton

Title Senior Drilling Engineer

February 16, 1983

Date\_\_\_\_

DATE

(This space for State Use)

APPROVED BY \_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

|                                 | a                             | All distances mus   | t be from the o                                   | uter boundarie       | s of the Section  | MAR 04   |   |  |
|---------------------------------|-------------------------------|---|---|----------------------|---|--|---|--|
| perator                         |                               |   | Lease   |                      |   |  | ION DIVISION  |  |
|                                 | ENERGY COMP                   |   | WALKE   |                      |   | ONSERVITA  | X FE  |  |
|                                 | ection                        | Township<br>22 SOUTH  | Ror<br>27   | EAST                 | EDDY  | 0.   |   |  |
| ctual Footage Location          |                               | 22 50011  |   | LINDI                |   |  |   |  |
| 1980                            | eet from the                  | SOUTH line  | and 990   | )                    | feet from the   | EAST   | line  |  |
| iround Level Elev.<br>3109.8'   | Producing Fo                  | ormation  | Pool  |                      |   |  | Dedicated Acreage:  |  |
| 5109.0                          | Mor                           | row   | Undes   | . East C             | arlsbad Mo  | orrow  | 320   | Ac   |
| 1. Outline the                  | acreage dedic                 | ated to the subjec  | t well by co                                      | olored penc          | il or hachure   | m <b>arks</b> on tl  | he plat below.  |  |
| interest and<br>3. If more than | royalty).<br>one lease of     | s dedicated to the<br>different ownership<br>unitization, force-p | o is dedicate                                     | ed to the we         |   |  |   |  |
| XX Yes                          |                               | answer is "yes," ty   |   |                      | Unitizat  | ion  | ·   |  |
| If answer is                    | "no," list the                | owners and tract o  | descriptions                                      | which have           | e actually be   | en consolid  | ated. (Use revers   | se side  |
| this form if n                  |                               |   | 1   |                      | -7 -5•  |  |   |  |
|                                 | -                             | ned to the well unti  |   |                      |   |  | •   |  |
| •                               | g, or otherwise               | e) or until a non-star  | ndard unit, e                                     | liminating           | such interest   | s, has been  | approved by the   | Comm   |
| sion.                           |                               |   |   |                      |   |  |   |  |
|                                 | I                             | 1   |   | i                    |   |  | CERTIFICATION   |  |
|                                 | l.                            |   |   |                      | 1   |  |   |  |
|                                 | 1                             |   |   |                      |   |  |   |  |
|                                 |                               |   |   | 1                    |   | I hereby   | certify that the inform   | mation c   |
|                                 |                               |   |   | <br>                 |   | tained he  | rein is true and comp   | olete to   |
|                                 | 1                             |   |   |                      |   | tained he  |   | olete to   |
|                                 |                               |   |   | -<br>                |   | tained he  | rein is true and comp   | olete to   |
|                                 |                               |   |   |                      |   | tained he<br>best of m   | rein is true and comp<br>y knowledge and beli   | olete to   |
|                                 | <br> <br> <br> <br> <br> <br> |   |   | -<br>-<br>-          |   | tained he<br>best of m<br>Name<br>Maha   | rein is true and comp   | olete to   |
|                                 | - +                           |   |   | <br> <br> <br>-      |   | tained he<br>best of m<br>Mane<br>Position   | rein is true and comp<br>y knowledge and beli<br>with Bantor  | olete to<br>lef.   |
|                                 | <br> <br> <br> <br> <br> <br> |   |   |                      |   | vained he<br>best of m<br>Name<br>Macha<br>Position<br>Senior 1  | rein is true and comp<br>y knowledge and beli   | olete to<br>lef.   |
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|                                 | - +                           |   |   |                      |   | vained he<br>best of m<br>Name<br>Michae<br>Position<br>Senior I<br>Company  | rein is true and comp<br>y knowledge and beli<br>with Bantor  | neer   |
| <u> </u>                        |                               |   |   |                      |   | Name<br>Name<br>Name<br>Name<br>Name<br>Name<br>Name<br>Name   | rein is true and comp<br>y knowledge and beli<br>with Bunter<br>Drilling Engi   | neer   |
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|                                 | Petzol<br>(Nichols<br>3/ PI   | GINEER & PAUS<br>STATE OF STATE OF STATE OF STATE                 | Fe ENERGY<br>Wilker, Lewis                        |                      | 990'  | tained he<br>best of m<br>Name<br>Maha<br>Position<br>Senior I<br>Company<br>Santa Fe<br>Date<br>February<br>I hereby<br>shown on<br>notes of<br>under my<br>is true of<br>knowledge<br>Date Survey<br>Registered  | rein is true and comp<br>y knowledge and beli<br>and R. Conter-<br>Drilling Engi<br>e Energy Comp<br>y 25, 1983<br>certify that the we<br>this plat was plotted<br>actual surveys mode<br>supervision, and that<br>and correct to the b<br>e and belief.<br>red<br>2/23/83<br>Professional Enginee              | elete to<br>ef.<br>.neer<br>pany<br>ell locati<br>f from fic<br>t by me<br>t the so<br>pest of t |
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W. A. Atlee Belco 411 Petro. Bldg. Midland, Texas 79701

Leonard MeCarty Petro-Lewis 1111 W. Loop 289 P.O. Box 16200 Lubbock, Texas 79490

L. Shulz Delta Drlg. P.O. Box 3467 Midland, Texas 79702

R. L. Davis / Monsanto 1330 Midland National Bank Tower 500 W. Texas Midland, Texas 79701

Joel Wigley / Read & Stevens P.O. Box 1518 Roswell, New Mexico 88201 314 SECURITY NATIONAL BANK BUILDING

CHARLES B. READ

NORMAN L. STEVENS, JR. VICE-PRESIDENT

Read & Stevens, Inc. Oil Producers

P. O. Box 1518 Rosnell, New Mexico 88201

February 28, 1983

OIL CONSERVATE OF DIVISION

SANTA FE

Division Director Oil Conservation Division Energy and Minerals Department State of New Mexico P.O. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

Enclosed please find an executed letter dated February 18, 1983 requesting approval of un-orthodox location.

If we can be of further assistance please let us know.

Yours very truly,

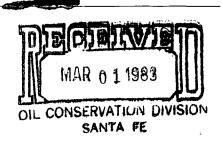
READ & STEVENS, INC.

Joe Wigley, Land Manager

By Dewayne Shaw

Associate Land Representative

DS/ma Enclosure Central Division-Permian Basin District 7200 I-40 West Amarillo, Texas 79106 806/359-2000 TWX 910-898-4111



February 18, 1982

Re: Waiver Request

Joel Wigley Read & Stevens P. O. Box 1518 Roswell, NM 88201

Dear Mr. Wigley:

This is to inform you of our Request for Administrative Approval of Santa Fe Energy Company's unorthodox location for a well to be drilled 990' FEL and 1980' FSL in Section 21, Township 22 South, Range 27 East, Eddy County, New Mexico. (Plat attached, for your convenience)

We would appreciate your responding to this Waiver as quickly as possible as we plan to spud the well on or before April 1, 1983. Please send one executed copy to: Division Director, Oil Conservation Division, Energy and Minerals Department, State of New Mexico, P. O. Box 2088, Santa Fe, New Mexico 87501, and return the copy so marked to us.

Yours truly,

Bill A.

Bill A. Schaefer, J. Exploration Manager



attchmt

WAS/MB/tw

RETURN THIS COPY TO: SANTA FE ENERGY CO.

Central Division-Permian Basin District 7200 I-40 West Amarillo, Texas 79106 806/359-2000 TWX 910-898-4111



February 18, 1982

Re: Waiver Request

Leonard McCarty Petro-Lewis 1111 W. Loop 289 P. O. Box 16200 Lubbock, Texas

Dear Mr. McCarty:

This is to inform you of our Request for Administrative Approval of Santa Fe Energy Company's unorthodox location for a well to be drilled 990' FEL and 1980' FSL in Section 21, Township 22 South, Range 27 East, Eddy County, New Mexico. (Plat attached, for your convenience)

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Yours truly,

Bill A. Schaefer, Jr. Exploration Manager

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST:

attchmt

Central Division-Permian Basin District 7200 I-40 West Amarillo, Texas 79106 806/359-2000 TWX 910-898-4111

FEB 28 1983 OIL CONSERVATION DIVISION

SANTA FE

February 18, 1982

Re: Waiver Request

L. Shulz Delta Drilling P. O. Box 3467 Midland, Texas 79702

Dear Mr. Shulz:

This is to inform you of our Request for Administrative Approval of Santa Fe Energy Company's unorthodox location for a well to be drilled 990' FEL and 1980' FSL in Section 21, Township 22 South, Range 27 East, Eddy County, New Mexico. (Plat attached, for your convenience)

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Yours truly, Bill A. Schaefer,

Bill A. Schaefer, Jx. Exploration Manager

| BY SIGNATI    | JRE HERETO, | WE DO | APPROVE | THIS WA | IVER REQUEST: |
|---------------|-------------|-------|---------|---------|---------------|
| Jan           | 1 Schu      | L     | ·····   | Date    | 2-23-83       |
| $\sim$ $\sim$ | ł           | δ     |         |         |               |

attchmt

7200 I-40 West Amarillo, Texas 79106 806/359-2000 TWX 910-898-4111

| Decenter December of the second se | ٢ |
|---|---|
| MAR 1 5 1983  |   |
| OIL CONSERVATION DIVISION<br>SANTA FE   |   |
|   |   |

;

March 9, 1983

Joe D. Ramey, Director Oil Conservation Division Energy and Minerals Department State of New Mexico P.O. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

Please find the enclosed waivers from all offset operators of proration or spacing units of our proposed Morrow test well to be located 990' FEL and 1980' FSL of Section 21, T22S, R27E, Eddy County, New Mexico.

On February 22, 1983, we applied for Administrative approval of this unorthodox location. If there is any other information you need, please contact us.

Sincerely,

ichael K. Buton

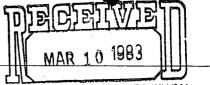
Michael R. Burton Senior Drilling Engineer

MRB/1cs attachment



### Hann Po Energy Company

Central Division-Permian Basin District 7200 I-40 West Amarillo, Texas 79106 806/359-2000 TWX 910-898-4111



OIL CONSERVATION DIVISION SANTA FE

February 18, 1982

Re: Waiver Request

W. A. Atlee Belco 411 Petroleum Bldg. Midland, Texas 79701

Dear Mr. Atlee:

This is to inform you of our Request for Administrative Approval of Santa Fe Energy Company's unorthodox location for a well to be drilled 990' FEL and 1980' FSL in Section 21, Township 22 South, Range 27 East, Eddy County, New Mexico. (Plat attached, for your convenience)

We would appreciate your responding to this Waiver as quickly as possible as we plan to spud the well on or before April 1, 1983. Please send one executed copy to: Division Director, Oil Conservation Division, Energy and Minerals Department, State of New Mexico, P. O. Box 2088, Santa Fe, New Mexico 87501, and return the copy so marked to us.

Yours truly,

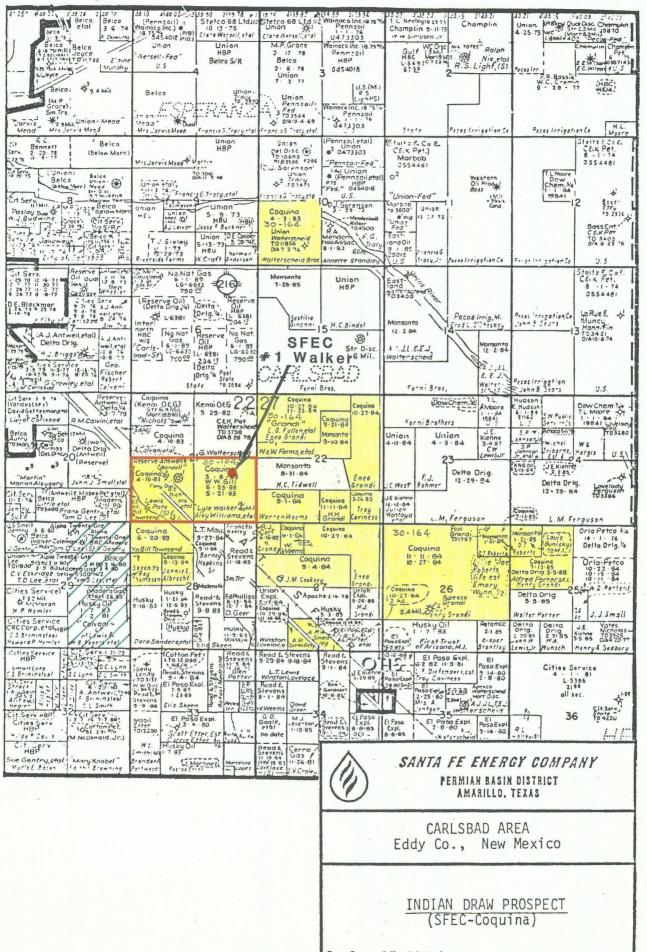
Bill A. Schaefer, Jr Exploration Manager

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST:

Vonald L. Peters Date 3-7-83 Petroleun Corporation

attchmt

R 27 E



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22

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Scale: 1"=4000'

Date: 2-83

Central Division-Permian Basin District 7200 I-40 West Amarillo, Texas 79106 806/359-2000 TWX 910-898-4111 OIL CONSERVATION DIVISION SANTA FE RECEIVED

FEB 2 2 1903

February 18, 1982 7 Re: Waiver Request

R. L. Davis Monsanto Oil & Gas 1330 Midland National Bank Tower 500 W. Texas Midland, Texas 79701

Dear Mr. Davis:

This is to inform you of our Request for Administrative Approval of Santa Fe Energy Company's unorthodox location for a well to be drilled 990' FEL and 1980' FSL in Section 21, Township 22 South, Range 27 East, Eddy County, New Mexico. (Plat attached, for your convenience)

We would appreciate your responding to this Waiver as quickly as possible as we plan to spud the well on or before April 1, 1983. Please send one executed copy to: Division Director, Oil Conservation Division, Energy and Minerals Department, State of New Mexico, P. O. Box 2088, Santa Fe, New Mexico 87501, and return the copy so marked to us.

Yours truly,

Bill A. Schaefer, Jr. Exploration Manager

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST: andall Wavis Date 2-28-83

attchmt