## Santa Fe Energy Operating Partners, L.P.

Santa Fe Pacific Exploration Company Managing General Partner CIL CONCERVATION DIVISION DECEIVED

February 6, 1990

'90 FEB 8 AM 9 06

New Mexico Oil Conservation Div. P.O. Box 2088 Santa Fe, New Mexico 87504

ATTN: Michael E. Stogner Pet. Engineer

> Re: OD-NM-617,139 (O/A) Chase "2" State #1 Well Application for a Non-Standard Gas Well Location 990' FSL & 1980' FWL (Unit N) of Sec. 2, T-22-S, R-27-E, N.M.P.M. East Carlsbad Wolfcamp Gas Pool Eddy County, New Mexico

Gentlemen:

As a follow-up to your Letter of February 1, 1990, and the subsequent phone conversation on February 5, 1990, enclosed please find Original Waiver Letters from all offset operators concerning the referenced application. Also enclosed please find copies of the certified return receipts which accompanied said letters. Please note that Western Oil Producers did not respond within the required 20 day period. Also, please be advised that Unocal did not execute the waiver letter, however, they verbally advised that they had no objection, but as a general policy they did not sign such waivers.

Also enclosed please find a general plat showing the location of the well and the offset operators so notified.

As discussed, this application would not have been necessary should Case No. 9234 (Order #R-8625) have been approved. As you will note, in said case file this was an application by Santa Fe Energy Operating Partners, L.P. for four 160 acre non-standard proration units. One of these non-standard proration units would have included the referenced well. Had this order been approved, this location in the Wolfcamp would have been legal. The case file should contain evidence of notification and approval by the same offset operators concerning the location of this well.

We apologize for the delay in forwarding this material and hope this will finalize the approval of the application.

Permian Basin District 500 W. Illinois Suite 500 Midland, Texas 79701 915/687-3551

An Affiliate of Santa Fe Southern Pacific Corporation

Page 2 New Mexico Oil Conservation Div. February 6, 1990

Should you require any additional information, feel free to contact us.

Sincerely yours,

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SANTA FE ENERGY OPERATING PARTNERS, L.P. By: Santa Fe Pacific Exploration Company, Managing General Partner

atrick By: Patrick J. Tower, Senior Landman

PJT/efw Encls a/s

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cc: New Mexico Oil Con. Div. Artesia, New Mexico

> Terry McCullough (Prod. Clerk) - w/Encls Santa Fe Energy Oper. Partners, L.P.

EFW893

| to and the date of delivery. For additional fees the following<br>for fees and check box(es) for additional service(s) reques<br>1. Ø Show to whom delivered, date, and addressee's ac<br>( <i>Extra charge</i> ) | ted.   |
|---|--|
| 3. Article Addressed to:  | 4. Article Number  |
| Union Pacific Resources Co.   | P 046 661 401  |
| P.O. Box 7, MS-3903   | Type of Service:   |
| Ft. Worth, Texas 76101  | Registered Insured   |
| ATTN: Jerry Jones   | Cortified COD<br>Express Mail For Merchandise                                |
| - <i>#</i> -  | Always obtain signature of addressee<br>or agent and <u>DATE DELIVERED</u> . |
| 5. Signature – Address X  | 8. Addressee's Address (ONLY if requested and fee paid)                      |
| 6. Signature – Agent X  | requested and see paid)  |
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|---|---|
| 3. Article Addressed to:  | 4. Article Number                                       |
|   | P 046 661 422   |
|   | Type of Service:  |
| OXY, U.S.A., Inc.   | Registered Insured                                      |
| P. O. Box 502050  | Certified COD   |
| Midland, Tx. 79710  | for Merchandise   |
| mulance, i.e. 19710   | Always obtain signature of addressee                    |
|   | or agent and DATE DELIVERED.                            |
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| 6. Signature – Agent<br>X   |   |
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| 3. Article Addressed to:  |  | 4. Article Number<br>P 046 661 504  |
| Union Oil of California   |  | Type of Service:  |
| P. O. Box 3100  | 57 M   | Certified COD<br>Express Mail Return Receipt  |
| Midland, Texas 79,02  |  | Always obtain signature of addressee<br>or agent and <u>DATE DELIVERED</u> .  |
| 5. Signature - Address  |  | 8. Addressee's Address (ONLY if requested and fee paid)   |
| 6. /Signature Agent   |  | T GAME_   |

**D STATES POSTAL SERVICE** U **OFFICIAL BUSINESS** SENDER INSTRUCTIONS Print your name, address and ZIP Code in the space below. Complete items 1, 2, 3, and 4 on the MAL reverse. Attach to front of article if space permits, otherwise affix to back of article. PENALTY FOR PRIVATE Endorse article "Return Receipt Requested" adjacent to number. USE, \$300 RETURN Print Sender's name, address, and ZIP Code in the space below. то 188 Patrick J. Tower - Santa Fe Energy Company OD-NM-617,201 500 West Illinois, 5th Floor -16-89 <u>Midland, Texas 79701</u> TO STATES POSTAL SERVICE PΜ **OFFICIAL BUSINESS** SENDER INSTRUCTIONS 12 001 Print your name, address and ZIP C ode 989 In the space below Complete items 1, 2, 3, and 4 on the reverse. Attach to front of article if space permits, otherwise affix to back of article. Endorse article "Return Receipt PENALTY FOR PRIVATE USE, \$300 Requested" adjacent to number. RETURN Print Sender's name, address, and ZIP Code in the space below. то 1.1 Patrick J. Tower - Santa Fe Energy Company 139 500 West Illinois - 5th floor OD-NM-617, Midland, Tx. 79701 UNITED STATES POSTAL SERVICE **OFFICIAL BUSINESS** SENDER INSTRUCTIONS Print your name, address and ZIP Code in the space below. Complete items 1, 2, 3, and 4 on the reverse Attach to front of article if space permits, otherwise affix to back of PENALTY FOR PRIVATE article. Endorse article "Return Receipt USE, \$300 Requested" edjacent to number. RETURN Print Sender's name, address, and ZIP Code in the space below. TO Patrick J. Tower - Santa Fe Energy Company 139 OD-NM-617,201 500 West Illinois, 5th Floor Midland, Texas 79701

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| - 90,5 Mar<br> | OD-NM-617,201<br>  | 500 West Illinois<br>Midland, Tx. 7970   |                              | - |   |
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## Santa Fe Energy Operating Partners, L.P.

Santa Fe Pacific Exploration Company Managing General Partner

<u>CERTIFIED MAIL</u> Return Receipt Requested OCT 1 2 1989

RECEIVED

TTYAS OIL GAS CORP.

October 6, 1989

TXO Production Company 415 W. Wall, Suite 900 Midland, TX. 79701

Att: Mr. John Cox

*co-Wm-617,139* Re: Chase State #2-1 990' FSL, 1980' FWL Sec. 2, T-22-S, R-27-E E. Carlsbad Wolfcamp Gas Pool Eddy County, New Mexico

Gentlemen:

This letter will advise that Santa Fe is in the process of requesting administrative approval from the New Mexico Oil Conservation Division (OCD) of Santa Fe's unorthodox location of 990' FSL, 1980' FWL in Section 2, T-22-S, R-27-E, Eddy County, New Mexico. This location has previously been approved by your company as well as the OCD as a 10,700' Strawn test. The well was drilled to the Strawn as approved and after an unsuccessful completion attempt was plugged back to the Wolfcamp formation in which it is now producing. Indications at the time were that the Wolfcamp was the most likely of the two formations to produce. Shortly after the well was plugged back to the Wolfcamp, Santa Fe asked the OCD for approval to the well location in the Wolfcamp formation without notice and hearing, which was denied. However, the OCD stated that the well was a good candidate for administrative approval provided the appropriate waivers are obtained. This letter serves as such a request for waivers. We apologize for the delay in attending to this matter.

You may file objections or requests for a hearing with the OCD at P. O. Box 2088, Santa Fe, New Mexico 87501. If you have no objection to this request, we would appreciate your signing and returning the waiver signature page attached to this letter at your earliest convenience.

Sincerely,

SANTA FE ENERGY OPERATING PARTNERS, L.P., By Santa Fe Pacific Exploratio Company as Managing General Partner

alue By: wèr. Senior Landman

Permian Basin District 500 W. Illinois Suite 500 Midland, Texas 79701 915/687-3551

An Affiliate of Santa Fe Southern Pacific Corporation

Page (2) Request for waivers, Chase State #2-1

BY SIGNATURE HERETO, WE HAVE NO OBJECTION TO THE APPROVAL OF THE ABOVE SPECIFIED UNORTHODOX LOCATION AS IT APPLIES TO THE WOLF-CAMP FORMATION AND HEREBY WAIVE OBJECTION AND NOTICE OF HEARING ON THIS APPLICATION.

By:

Name: R. A. Varela

Title: Vice President

Company: TXO Production Corp.

Date: 11-3-89

RECEIVED NOV 6 1989 Land Dept. Midland, TX



RECEIVED

NOV 1 3 1989

LAND DEPT. MIDLAND. TX

November 10, 1989

Mr. Patrick J. Tower Santa Fe Pacific Exploration Company 500 West Illinois, Suite 500 Midland, Texas 79701

617,137 Re: Chase State #2-1 990' FSL, 1980' FWL Sec. 2, T-22-S, R-27-E E. Carlsbad Wolfcamp Gas Pool Eddy County, New Mexico

Dear Mr. Tower:

Please find enclosed one fully executed signature page of your Request for Waivers on the captioned project.

Very truly yours,

UNION PACIFIC RESOURCES COMPANY Jerry L. Jones Staff Landman

JLJ/v1h E89-2269

Enclosure

æ°.,



## Santa Fe Energy Officiating Partners, L.P.

Santa Fe Pacific Exploration Company Managing General Partner

CERTIFIED MAIL Return Receipt Requested

October 6, 1989

Union Pacific Resources Company P. O. Box 7, MS-3903 Ft. Worth, TX. 76101

Att: Mr. Jerry Jones

0D-NM-617,201

Re: Chase State #2-1
990' FSL, 1980' FWL
Sec. 2, T-22-S, R-27-E
E. Carlsbad Wolfcamp Gas Pool
Eddy County, New Mexico

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Permian Basin District 500 W. Illinois Suite 500 Midland, Texas 79701 915/687-3551 SANTA FE ENERGY OPERATING PARTNERS, L.P., By Santa Fe Pacific Exploration Company as Managing General Partner

By: Patrick J Senior Landman wèr,

An Affiliate of Santa Fe Southern Pacific Corporation

Page (2) Request for waivers, Chase State #2-1

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UNION PACIFIC RESOURCES COMPANY

hu By:

Date: 11-9-89

Name: Charles R. TraxLer ATTORNEY-IN-FACT

Title:\_

Company:\_\_\_\_

RECEIVED

## NOV 1 3 1989

#### LAND DEPT. MIDLAND, TX



# Santa Fe Energy **Calibrating Partners**, L.P.

Santa Fe Pacific Exploration Company Managing General Partner

<u>CERTIFIED MAIL</u> Return Receipt Requested

October 6, 1989

OXY, U.S.A., Inc. P. O. Box 502050 Midland, TX. 79710

Att: Mr. Ed Taylor

0p-1/1-617,00

Re: Chase State #2-1
990' FSL, 1980' FWL
Sec. 2, T-22-S, R-27-E
E. Carlsbad Wolfcamp Gas Pool
Eddy County, New Mexico

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Sincerely,

Permian Basin District 500 W. Illinois Suite 500 Midland, Texas 79701 915/687-3551 SANTA FE ENERGY OPERATING PARTNERS, L.P., By Santa Fe Pacific Exploration Company as Managing General Partner

By: Patrick J. Xower, Senior Landman

An Affiliate of Santa Fe Southern Pacific Corporation

Request for waivers, Chase State #2-1

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By: K. D. Van Horn

G

Date:\_\_/0/

Name: District Monager Production OXY USA Inc.

Company:\_\_\_\_

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RECEIVED OCT 2 3 1989

LAND DEPT. MIDLAND, TX



# Santa Fe Energy Operating Partners, L.P.

Santa Fe Pacific Exploration Company Managing General Partner

<u>CERTIFIED MAIL</u> Return Receipt Requested

October 6, 1989

Western Oil Producers P. O. Box 1498 Roswell, New Mexico 88201

Att: Land Department

OD-WM-6(7,5

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alua By: Senior Landman

Permian Basin District 500 W. Illinois Suite 500 Midland, Texas 79701 915/687-3551

An Affiliate of Santa Fe Southern Pacific Corporation

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Date:

Ву:\_\_\_\_\_

Name:\_\_\_\_\_

Title:\_\_\_\_\_

Company:\_\_\_\_\_



Santa Fe Energy Operating Partners, L.P.

Santa Fe Pacific Exploration Company Managing General Partner

CERTIFIED MAIL Return Receipt Requested

October 6, 1989

Union Oil of California P. O. Box 3100 Midland, TX. 79702

Att: Mr. Larry Murphy

0D-NM-617,6

Re: Chase State #2-1
990' FSL, 1980' FWL
Sec. 2, T-22-S, R-27-E
E. Carlsbad Wolfcamp Gas Pool
Eddy County, New Mexico

Gentlemen:

This letter will advise that Santa Fe is in the process of requesting administrative approval from the New Mexico Oil Conservation Division (OCD) of Santa Fe's unorthodox location of 990' FSL, 1980' FWL in Section 2, T-22-S, R-27-E, Eddy County, New Mexico. This location has previously been approved by your company as well as the OCD as a 10,700' Strawn test. The well was drilled to the Strawn as approved and after an unsuccessful completion attempt was plugged back to the Wolfcamp formation in which it is now producing. Indications at the time were that the Wolfcamp was the most likely of the two formations to produce. Shortly after the well was plugged back to the Wolfcamp, Santa Fe asked the OCD for approval to the well location in the Wolfcamp formation without notice and hearing, which was denied. However, the OCD stated that the well was a good candidate for administrative approval provided the appropriate waivers are obtained. This letter serves as such a request for waivers. We apologize for the delay in attending to this matter.

You may file objections or requests for a hearing with the OCD at P. O. Box 2088, Santa Fe, New Mexico 87501. If you have no objection to this request, we would appreciate your signing and returning the waiver signature page attached to this letter at your earliest convenience.

Sincerely,

Permian Basin District 500 W. Illinois Suite 500 Midland, Texas 79701 915/687-3551 SANTA FE ENERGY OPERATING PARTNERS, L.P., By Santa Fe Pacific Exploration Company as Managing General Partner

By: Senior Landman Patrick J. ower,

BY SIGNATURE HERETO, WE HAVE NO OBJECTION TO THE APPROVAL OF THE ABOVE SPECIFIED UNORTHODOX LOCATION AS IT APPLIES TO THE WOLF-CAMP FORMATION AND HEREBY WAIVE OBJECTION AND NOTICE OF HEARING ON THIS APPLICATION.

| By:    | Date: |     |
|--------|-------|-----|
| Name:  | · · · | ••• |
| Title: |       |     |

Company:\_\_\_\_\_

| Cities Serv.<br>L'Soge<br>2212   | Yates<br>Pet etal<br>9 - 1 - 91<br>V - 1981<br>79 - 7<br>J.M.Hu<br>ber Const<br>HBP                            | Y LG 5699  | R Boss<br>21 TP Texacol OG<br>2351 (London<br>28 9) 15 889 H.E.<br>- wiz HBC Correct<br>Bass<br>14 Bass-St<br>uol Correct<br>Ruther LS | (ates 39 74)  | Allied-St.  | Atho HBC<br>State Mag K 36<br>To 563  |                                   | (Mobil)  <br>L 326  <br>  | Permian Basin<br>Inv.<br>I . I . 93<br>VB. 0175<br>262.50           | Rich & Bass<br>HBP<br>B-10005<br>3967 27 Rolph<br>P.R. Boss 1 Nix, S/R<br>HBP (M. Yates,<br>E 1232 State S/R | HBP<br>059365<br>Raiph Nix, S/R   | HBP<br>059365<br>Rolph Nix   |
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| t.Serv.<br>HBC J<br>-Cit.Serv.<br>-Elizondo-Fed.   | 3. 1. 77<br>2. 11. 77<br>2. 5. 77<br>2. 03<br>5 ed<br>Borron 5. 25. 77   | 54232  | L 2351 1 V.<br>2899 1 2<br>(Tex.Int. Pet) J<br>Sun-St<br>Mor Disc 201.5. (S<br>2.27 Mil 21.5. (S<br>C.7.80.73 State                    | 1784 L 2351   | (Hube<br>(Humi<br>TDIO                            | 052<br>19:69<br>19:69<br>19:69<br>19:90<br>19:90<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>19:50<br>10 |                                   | 800 C.150   | 90 // 6-15-91<br>90 // Kix<br>A Curtis                              | G NGreen,<br>M.L.<br>Ray C. B  | Pan Amer.<br>Big Eddy Unit<br>Cany Disc.<br>Fid<br>g Eddy"<br>U.S. Ph 12457<br>U.S. Ph 10300                  | <sup>S</sup> Big Eddy"<br>Jee Y. Lusk<br>Claude West Yo                      |
| sen Jr. U.S. S/2 HBC   | s Lew's U.S.   | Pioneer Prod<br>Amarillo Oil                             | 2.27 Mil 20.3.10<br>C.7.90.73 State  |   |   | Champlin (So<br>HBC (S  | Uniort H                          | A 168 5 - 23:85   | r., M.I. R.C.Isen<br>Sonta Fe<br>Encr.<br>2 · 10 · 50<br>5 · 1 · 50 | 10.17<br>Whitlow<br>43-20-5-17-90<br>30.31   | Bass Ent.   | HBC<br>Jee V. Lusk<br>Cloude West  |
| 21 77<br>Pillos - Dav<br>Pillos - Dav<br>Pillos - Dav<br>Pillos - Dav  | Huber U.S. Min<br>Corp. 1/2 Manuel   | Cit.Serv.<br>Elizando-Fed.                               | Cities Se<br>055378<br>Pre] 2 AD<br>Atoka Disc<br>27   | rv.<br>5  | Amoco<br>0553785                                  | E/2 HBC   | Will S J Ch<br>scher Est<br>WAW / | EC. Marie<br>Nilson Neal, Est   | Chaparral<br>Roy.   | A N  | Raiph Nix 5/R<br>Ailler<br>Ux & Yates<br>30   |  |
|  |  | 8<br>cit.Serv<br>9 · 2 · 75                              | Amarillo Oil<br>HBP Source   | Cities Serv.  | IMil.   |   | ardner T                          | 4 Mil HBC<br>4 Mil 14768<br>00thman Chameli   | Ruth Vernon   | 102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102   | Bass Ent<br>Big Eddy<br>Ut.<br>TP 12099   | *  |
| La Huerta Sub'd. Cities<br>City of Servic<br>Carlsbad 12:16-7  | e HBP Jr, etal<br>Francis W.W.<br>5 Tracy, etal Simpson Jr   | Mrs<br>Vane Bujec U.S.                                   | U.S <sub>F</sub>   | "Govit."  | <u>7.6.8</u><br>U.S.                              |   | A MI P                            | Gas" 8.24.75<br>oul Bond Mrs Belle<br>O.V<br>Dethmon McCord   | 14768 Pordue<br>U.S. / Fms.etal                                     | 9. 22. 69 5-1. 50<br>Pordue  | <u>u</u> s  | *Big   |
| ities Cties Service<br>ervice   R C Bennett(NW/NE)<br>2-16-75 R.G.Borton, Jr.<br>Cit.Se  | Oxy USA<br>(Union) <sup>1-A</sup><br>5.1.  | Атосо<br>НВР<br>0553785                                  | 127461244  | odhunter feddi<br>D 915   | U.S.Min.<br>A H.<br>Roins<br>(S)<br>Champ         | 11 11 1 1   |                                   | Cham<br>22<br>L·50  | olin i 3. 9. 90.  |  | trate Disc.<br>2 Richard-<br>al son Biletal II - 14-8<br>5 1 - 50 10-27-8<br>10114 8 (2)<br>JL Hame<br>5 25-8 | Ent.   |
| Cit.Se<br>7700<br>(WO) 324<br>1.6Mi<br>32  | Morr. 10 Mil.  | (Cit SPEVIL  | Elizondal<br>Fed."   | Amoco<br>HBP<br>- 0553785<br>Cit.Serv.<br>Elizondo-Fed.           | INION BO  | Reeves  | Fed"<br>S.                        |   | 36<br>Sweeneye,<br>Hannifin   |  | 3 - Pardue<br>Farms,<br>etal<br>Richard-<br>son Oil Oil, etal<br>5 1 60 5 - 1 60                              |  |
| La Huerta Subdivisio<br>46 Huerta Subdivisio<br>46 Huerta Subdivisio<br>46 Huerta Subdivisio<br>47 Huerta Subdivisio<br>47 Huerta Subdivisio<br>47 Huerta Subdivisio<br>48 Huerta Subdivisio   | Trocy 1.0  | 14303 U.   |  | US. Min.<br>R.S.Light(S)  | - Fed." Hu<br>U.S. M.n. HI                        | stn Gil<br>nker<br>VZ<br>R.S. Ralph N   |                                   | ₩ Dual  | BigEddyUnit<br>T04615<br>D/A10-5-69<br>Mortin                       | Damen U. Bend<br>Paul Band<br>37.50 2<br>31  | 061277   01148<br>(2)<br>R.Nix.s/R   (2)  | Rich Contraction   |
| Francis Dowing   |  | Tracy, et al pennzoil                                    | Pennzoi 1/2)   | Faubian Of, G 19.75   | Light(S) L  | 19ht R.S.Lig<br>101 3 20.15 214<br>Ener: Cham   | ghf, (S)<br>40.21                 | Stat<br>40.21 4140 15<br>Union 1946 19  | State<br>10.1555  | 37.50 d 39.92<br>Bach,Oil<br>Raix SrR<br>PaulBand  | U.S.  <br>3135.87 2139.82<br>P.R. Bass, et al<br>0 60613 -  | 8-10746 1 5<br>1 39.79 1/39 7A<br>Richard-<br>san,Oil 1 HE                   |
| 9. 9.75 F DOWN   | 10010 ald0 02<br>2 (Pennzoil) 1<br>74 Fautran 06,6, 0<br>18.75 %) (P/E<br>0454018 Pio<br>union<br>Wersel'- Fed | 3<br>Union<br>HBP  | Union XI<br>Clara Wersell, et al<br>M.P. Grace<br>Belco  | Pennzoil<br>HBP<br>0473303<br>FaubianOt,GIB.75<br>Pennzoil<br>HBP | 3 · 20 ·<br>iv w simps<br>% w/2<br>HBC            | NC Disc Nix Yates"  | Ralph<br>Nix eicl                 | Delta   | E F Wilson 0557143  | D.U.Bend<br>37.55 5  | HBP<br>Richardson Oil<br>8 - 1 - 59 (2)   | 8 - 1 - 55<br>0 6 0 8 5 3 1<br>(2)   |
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| (M.P.<br>Groce)<br>Sm.Trs.<br>*46 Mil Union - Meod   | Belcol<br>Union-Wc 22<br>Mega Disc Di  | 0 10 10 10 10 10 10 10 10 10 10 10 10 10                 | 3 TO 3544  | Faubien OEBI8.75<br>Pennzoit<br>- 10 HBP<br>0473303               | L.P. Chase  |   | 37NH.<br>e" 🔆<br>Drig.            | Bass<br>Delta Drig  | (TXO)<br>(9-17-89<br>H.L.)<br>Moore                                 | DeltaDrig.   | U.S.  |  |
| Mead Mrs.Jervis Mead   | MITS COLVIS MILLO  | Union<br>HBP   | Union<br>(D J. Sorenson)<br>Del Disc.<br>TW 6633<br>prossoo  | Pennzoil-Fed  |   | 3 Wes   | tem                               | TXO. etal<br>wc Disc.   | c Monsonto<br>1 · 1 · 91<br>64584<br>100000<br>KGs                  |  | Атосо   | Thru   |
| Cit Serve Union) Enron<br>Belco Union<br>Belco Union   | iun on etal)   | That and NI  | 2 Union<br>Trocy<br>TD 3675  | • (Pennzoile<br>P75<br>"Fed." 0454016<br>U.S.<br>0<br>U.S.        | Marbob<br>Union Feat<br>704725                    | We  | stern<br>Produt                   |   | -12 1955-   | 0429825<br>03/02 7   | 438 434<br>7703550 703450   | 1-1-1  |
| Paslay Dual X<br>W.J. Budwine<br>W.J. Budwine<br>Graces (Cit.Sen   | Union Unien  | 5 9 73<br>HBU (HB)<br>Jesse F. Buck ner                  | Union  | OD J. Sorenson<br>HBP<br>Mendeala<br>Miller<br>To 4500<br>SamtaFe | Fed   | :7 72   | R                                 |   |   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | aza a5  |  |
| Service GallowayA figurate<br>12:33-6  | Riverside Farms  | HBU Norma<br>W Craft Anderse                             | , P UN / 5 /4  | Annerte Standl  | Kas<br>U.S.                                       | antisG<br>aty'- Delta<br>TX   | Drig.                             | Deita Drig.<br>TXO, etal<br>5 · 15 · 85   | 0.5.<br>Monsanto  | 1010 ridian<br>50 ridian<br>34.33 6<br>13 All  | DeitoOrig   | Delta<br>Drig<br>Richar  |
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| Amter Terries Service  | 76 bad-St 7905   | 204 17 790   | 200<br>Farming   | 1.6 Mi<br>Bros.   | Far   | ni Bros.  | E. E. Moire                       | Deita Drig.<br>Suchn B. Sears   | <i>U.S.</i>   | Old Indian   | Bei.Disc. PIS A<br>TOI2450<br>PPB3988 B<br>PSI<br>P275  | MOCO (O  |
| City of Corisbad<br>City of Corisbad<br>(Variouslises)<br>Carvid Softesmanetal<br>David Softesmanetal  | Graham Ray,<br>134<br>e Va<br>5tr.6.4 Mil.<br>Morr. 188Mil.<br>Nichols 70au                                    | Kengi DEG 2  | 2 27 Santa Feb<br>(Santa Febueshroo)<br>(Santa Febueshroo)<br>(Shipsi Lo Fullor<br>Margandi, et al.<br>Walk Forms et al.               | SontoFe (Krit<br>SontoFe (Krit<br>Ener, Vz                        | Te<br>V2<br>V2<br>Far                             | n Brothers  | Mons 310                          | EXXON Exxon<br>HBC<br>64587<br>US Service   | Exxon<br>2: 1: 91 3/4<br>64587 -01                                  | Armoco<br>Old Indian   |   | Amoco<br>Old Indian<br>DTD4100   |
| Civilo Carlesod R.M.Calvini.e<br>Civilo Carlesod R.M.Calvini.e<br>Belco<br>Autry Carlesod R.M.Calvini.e<br>Particle Carlesod R.M.Calvini.e   | Seas Coquind   | G. Waltersche  |  | 22-10-84<br>Hens  | SomoFe<br>Ener;<br>Krifi<br>Expl. V2<br>CNG Prode | Sonta Fe Ener<br>Kritt Exol V2<br>ro CNg Fred.<br>9-13-07 9-14-07<br>Sonta  | Montanto<br>3.4 7<br>C<br>Lewi Ji | Johnson Jr Hec  | Stevens) Soplar   | 0 35.81 7*   | Amoco<br>0415461  |  |
| "Martin" John J. Smal  | Letal Expl   |  | 8-31-84<br>H.C. Tidwel   | W. WGIII Gron   | fol ( west )                                      | t.J.  |                                   | MBC   | Hac Lovelady  | 42   |   |  |
| To Borner and American Sectors and American Sectors and American Sectors and American Sectors and Sect   | South Cart   | Alpho pi M. I<br>Eglis<br>Western: erter<br>ang Williams | Sonto lo Ener. //2<br>Hriti Expl. V/2<br>9 - 1 - 8 - 4<br>Warren Weebna  | Party is Low  | V2 1  | L.M. Fergus   |                                   | Santa Fe Ener<br>to 12350<br>L.M. Ferguson<br>(krift) Santa<br>Santa<br>Ener<br>Ener  | Rosemary<br>Gann, etal  | - 10 ·· 010  | Indian Draw"  | Ewe.   |
|  | Ore C 10 BA  |  | Restances (  | il inter  |   | LATURE TOTAL  | (and a                            | district of the second | V2<br>V2<br>Delle Dris.   | Print.   | C   | Service<br>Service   |

STATE OF NEW MEXICO



### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**OIL CONSERVATION DIVISION** 

GARREY CARRUTHERS

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

February 1, 1990

Santa Fe Energy Operating Partners, L.P. 500 W. Illinois Suite 500 Midland, TX 79701

Attention: Terry McCullough

RE: Application for a non-standard gas well location for the Chase 2 State Well No. 1, 990' FSL - 1980' FWL (Unit N) of Section 2, Township 22 South, Range 27 East, NMPM, East Carlsbad Wolfcamp Gas Pool, Eddy County, New Mexico.

Dear Ms. McCullough:

Pursuant to a telephone conversation January 31, 1990 with Ms. May Morgan in our Artesia District Office, I'm sending you a copy of all correspondence that I have concerning the unorthodox Wolfcamp completion for the subject well.

If you should have any questions concerning this matter, please contact me.

Sincerely,

Michael E. Stogner Petroleum Engineer

MES/ag

cc: Oil Conservation Division - Artesia

STATE OF NEW MEXICO

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**OIL CONSERVATION DIVISION** 

**GARREY CARRUTHERS** GOVERNOR

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

September 29, 1988

Santa Fe Energy Operating Partners, L.P. 500 W. Illinois Suite 500 Midland, TX 79701

Attention: Patrick J. Tower Senior Landman

RE:

Application for a non-standard gas well location for the Chase 2 State Well No. 1, 990' FSL - 1980' FWL (Unit N) of Sec. 2, T-225, R-27E, Esst Carlabad Wolfcamp Gas Pool, Eddy County, New Mexico.

Dear Mr. Tower:

Per your letter dated September 21, 1988, it appears that this well is a very good candidate for administrative approval. Please submit the required data pursuant to General Rule 104.F.III. (See attached). Also, please explain the delay in submitting this filing. It appears that completion of this well in the Wolfcamp formation occurred in March, 1987 and fist delivery of gas from this formation was January, 28, 1988.

Sincerely

Michael E. Stogner Petroleum Engineer

MES/ag

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1/17/89 Called Bat Tower concerning this matter, will Call Buch Tomarrow

1/18/89 Talked al Part Tower concerning this, will submit proper this plat showing all-site and notificiation. All elie ot.



# Santa Fe Energy Operating Partners, L.P.

Santa Fe Pacific Exploration Company Managing General Partner

September 26, 1988

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

> Re: Chase 2 State No. 1 1980' FWL & 990' FSL Section 2, T-22S, R-27E Eddy County, New Mexico

Dear Sir:

Santa Fe Energy Operating Partners, L.P. drilled the referenced well at a non-standard location for the Undesignated East Carlsbad Strawn Pool. The location was approved by the Oil Conservation Division ("OCD") under Administrative Order NSL-2302 pursuant to Rule 104F(II). The well was unsuccessful in the Strawn and was completed in the E. Carlsbad Wolfcamp Pool. In regard, and pursuant to Rule 104F(I), it is requested that the OCD grant approval to this well location for the Wolfcamp formation without notice and hearing.

Should you have any questions, please feel free to call.

Sincerely,

SANTA FE ENERGY OPERATING PARTNERS, LP By Santa Fe Pacific Exploration Company as Managing General Partner

Quiles By Patrick J.

Senior Landman

PJT:dw-788

Permian Basin District 500 W. Illinois Suite 500 Midland, Texas 79701 915/687-3551

An Affiliate of Santa Fe Southern Pacific Corporation

give or shape of the unit is necessitated by a variation in the legal subdivision of the U.S. rublic Land Surveys, or the following facts exist and the following provisions are complied with:

- (a) The non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side.
- (b) The non-standard unit lies wholly within a single governmental quarter section if the well is completed in a pool or formation for which 160 acres is the standard unit size or wholly within a single governmental half section if the well is completed in a pool or formation for which 320 acres is the standard unit size.
- (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the quarter section (for 160-acre pools or formations) or the half section (for 320-acres pools or formations) in which the non-standard unit is situated and which acreage is not included in said non-standard unit.
- (d) In lieu of paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Director has received the application.

E. Form C-101, Application for Permit to Drill, Deepen, or Plug Back for any well shall designate the exact legal subdivision allotted to the well and no Form C-101 will be approved by the Division or any of its agents without such proper designation of acreage.

#### F. UNORTHODOX LOCATIONS

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I. The Division Director shall have authority to grant an exception to the well location requirements of Sections B and C above without notice and hearing when the necessity for such unorthodox location is based upon topographical conditions, the recompletion of a well previously drilled to a deeper horizon, provided said well was drilled at an orthodox or approved unorthodox location for such original horizon, or to permit the completion of an efficient production and injection pattern within a secondary recovery or pressure maintenance project, provided that any such unorthodox location within such project is no closer than 330 feet to the outer boundary of the lease or the unitized area, nor closer than 10 feet to any quarter-quarter section line or subdivision inner boundary.

II. The Division Director shall have authority to grant an exception to the well location requirements of Rule 104 B.I.(a) and Rule 104 C.II.(a) without notice and hearing when the necessity for such unorthodox location is based upon geologic conditions provided that any such unorthodox location shall be no closer than 660 feet to the nearest side boundary nor closer than 990 feet to the nearest end boundary of the proration unit.

111. **Applications** for administrative approval of unorthodox locations shall be filed in **Applicate** and shall be accompanied by plats, showing the ownership of all leases offsetting the **Constant of spacing unit for which the unorthodox** location is sought, and also all vells completed (Mered). If the proposed unorthodox location is based upon topography, the plat shall also show and describe the existent topographical conditions. If the proposed unorthodox location is based upon completion of an efficient production and injection pattern, the plat shall also show the project outline identifying all producing and injection wells therein, and the applicant shall further include a statement setting forth the necessity for such location. If the proposed unorthodox location is based upon geology as provided in Paragraph II above, the application shall include appropriate geologic maps, cross-sections, and/or logs, and a discussion of the geologic conditions which result in the necessity for the unorthodox location.

IV. all operators of proration or spacing units offsetting the unit for which the unorthodox location is sought shall be notified of the application by certified or registered main, and the application shall state that such notification has been given. The Division Director has a performance the unorthodox location upon receipt of valvers from all offset operators for if nor offset operators for the unorthodox location to the unorthodox location to the unorthodox location to the unorthodox location by certified of the application shall state that such notification has been given. The Division Director has a performance the unorthodox location to the unorthodox location and the application of the unorthodox location to the unorthodox location within 20 days after the Director has the unorthodox location to the unorthodox location within 20 days after the Director has the unorthodox location of the unorthodox location within 20 days after the Director has the unorthodox location of the unorthodox location within 20 days after the Director has the unorthodox location of the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location of the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the Director has the unorthodox location within 20 days after the days after the day

V. The Division Director may, at his discretion, set any application for administrative approval of an unorthodox location for public hearing.

G. Whenever an exception is granted, the Division may take such action as will offset any advantage which the person securing the exception may obtain over other producers by reason of the unorthodox location.

H. If the drilling tract is within an allocated oil pool or is placed within such allocated pool at any time after completion of the well and the drilling tract consists of less than  $39\frac{1}{2}$  acres or more than  $40\frac{1}{2}$  acres, the top unit allowable for such well shall be increased or decreased in the proportion that the number of acres in the drilling tract bears to 40.

I. If the drilling tract is within an allocated gas pool or is subsequently placed within an allocated gas pool, and the drilling tract consists of less than 158 acres or more than 162 acres in 160-acre pools, or less than 316 acres or more than 324 acres in 320-acre pools, the top allowable for such well shall be decreased or increased in the proportion that the number of acres in the drilling tract bears to a standard unit for the pool.

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J. In computing acreage under H and I above, minor fractions of an acre shall not be counted but  $\frac{1}{2}$  acres or more shall count as 1 acre.

K. The provisions of H and I above shall apply only to wells completed after January 1, 1950. Nothing herein contained shall affect in any manner any well completed prior to the effective date of this rule and no adjustments shall be made in the allowable production for any such wells by reason of these rules.

L. In order to prevent waste the Division may, after notice and hearing, fix different spacing requirements and require greater acreage for drilling tracts in any defined oil pool or in any defined gas pool notwithstanding the provisions of B and C above.

M. The Division may approve the pooling or communitization of fractional lots of 20.49 acres or less with another oil proration unit when:

1. The units involved are contiguous;

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2. They are part of the same basic lease, carrying the same royalty interest; and

3. The ownership of the units involved is common.

Application to the Division for pooling shall be accompanied by three (3) copies of a certified plat showing the dimensions and acreage involved in the pooling, the ownership of all leases and royalty interests involved, and the location of any proposed wells.

|           |                | BTATE OF DEW MEXICO<br>ENCY AND MINE HALS DEPARTMENT                                    |  |   | Form C-104<br>Auvised 10-1-78   |
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|           | ф<br>          | PRONATION DEFICE  |  | NID<br>SPORT OIL AND NATURAL GA   | O: C. D.<br>Sarthena, Office  |
|           |                | Santa Fe Energy Operat  | ing Partners, L.P.   |   |   |
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|           | Р.,<br>1.1     | If change of ownership give name<br>and address of previous owner                       | 171 15/00 1 A 173/1  |   |   |
|           | , <b>n</b> .   | DESCRIPTION OF WELL AND   |  | · .   |   |
| Ē         |                | Lesse Name<br>Chase 2 State   | Well No. Pool Norie, Including f<br>1 Hindes, E. Carl              |   | ederol or Foo State 1405  |
| :         | ∰a.<br>Mari    | Location<br>Until Letter N : 19   | 17.<br>80 Feel From The West Lin                                   | no and 990 Feet F   | rom The South   |
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| -<br>  -1 | a h<br>a h     | Permian Corp.   |  | P. O. Box 3119, Mid1  | and, TX 79702   |
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|           | Ĥ.             | Designate Type of Completi  | ion - (X) Oil Well Gas well  | New Well Workover Deepe   | n Plug Back Same Resty, Diff, He  |
| Į,        | hd '.<br>T     | Date Spudded  | Date Compl. Ready to Prod.   | Total Depth   | P.B.T.D.  |
|           | 9              | 12-17-86<br>Elevations (DF, RKB, RT, GR, etc.)  | tame of Producing Formation  | 10,705<br>Top Oll/Gas Pay   | 10,558<br>Tubing Depth  |
| .         |                | 3105.4 GL   | Wolfcamp   | 9579  | 9470  |
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Director Oil Conservation Division Energy and Minerals Dept. State of New Mexico P. O. Box 2088 Santa Fe, NM 87501

> Re: Chase 2 State No. 1 1980' FWL & 990' FSL Section 2, T-22S, R-27E Eddy County, New Mexico

Dear Sir:

Santa Fe Energy Operating Partners, L.P. drilled the referenced well at a non-standard location for the Undesignated East Carlsbad Strawn Pool. The location was approved by the Oil Conservation Division ("OCD") under Administrative Order NSL-2302 pursuant to Rule 104F(II). The well was unsuccessful in the Strawn and was completed in the E. Carlsbad Wolfcamp Pool. In regard, and pursuant to Rule 104F(I), it is requested that the OCD grant approval to this well location for the Wolfcamp formation without notice and hearing.

Should you have any questions, please feel free to call.

Sincerely,

SANTA FE ENERGY OPERATING PARTNERS, LP By Santa Fe Pacific Exploration Company as Managing General Partner

Your Bv Patrick J.

Senior Landman

PJT:dw-788

Permian Basin District 500 W. Illinois Suite 500 Midland, Texas 79701 915/687-3551

| COUNTY Eddy       |            | Carlsbad.                                       | - WolFc   | amp G.                                     |
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 $\frac{\text{Description}; NW}{4} \text{Secl}, NE}{4} \text{Sec 2} (R-5015, 6-1-75)} \\ \underline{\text{Ext}: NE}{4} \text{Sec 1} (R-5124, 12-1-75) \text{Ext}: SE}{4} \text{Sec 2}, \frac{5}{2} \text{Sec II} (R-5667, 4-1-78)} \\ \underline{\text{Ext}: N2}{5} \text{Sec 14}, All Sec 15, \frac{5}{2} \text{Sec 16}, \frac{5}{2} \text{Sec 20}, All Sec 21 (R-6698, 6-2-81)} \\ \underline{\text{Ext}: All Sec, 28 (R-8391, 1-22-87) \text{Ext}: W2 \text{Sec. 12} (R-8431, 4-15-87)} \\ \underline{\text{Ext}: W2}{5} \text{Sec. 2} (R-8455, 6-15-87) \text{Ext}: \frac{5}{2} \text{Sec. 1} (R-8592, \frac{1}{25}/88) \\ \end{array}$ 

|                          |             | STATE OF NEW MEXICO<br>STATE LAND OFFICE<br>ACTIVE COMMUNITIZATIONS | 0<br>0   |                                    |
|--------------------------|-------------|---|--|------------------------------------|
|                          |             | -   |  |                                    |
| COMMUNITIZATION NAME:    |             | Chase 2 State Com Well No. 1-N                                      | 11 No. 1-N   |                                    |
| OPERATOR:                |             | Santa Fe Energy Operating Partners,                                 | ating Partners, L.P.   |                                    |
| DATE APPROVED:           |             | September 12, 1988  |  | W <sup>1</sup> 2 Sec. 2-T22S-R27E  |
| EFFECTIVE DATE:          |             | August 22, 1988   |  | 4 3                                |
| COUNTY:                  |             | Eddy  |  |                                    |
| TOTAL ACREAGE:           | :           | 320.12  | and the second s |                                    |
| STATE ACREAGE:           |             | 240.00  | I Win with   | \$                                 |
| DEDICATED TO:            |             | Wolfcamp  | We want of the second  |                                    |
| INSTITUTION:             |             | Common Schools  | عر   |                                    |
| TERM OF COMMUNITIZATION: |             | One year and so long as   | as   |                                    |
| WELL LOCATION:           |             | SE42SW42 (N)  |  |                                    |
| SEC. TWP. RGE.           | SUBDIVISION | LEASE NO.   | LESSEE   | ACREAGE                            |
| 22S                      | SYNME. SME  | V-1405-1  | Santa Fe Energy Oper   | Energy Operating Part. L.P. 240.00 |
| 2 22S 27E                | N-2NW-2     | FEE   | )<br>(   |                                    |

22S 27E N<sup>1</sup>2NW<sup>1</sup>2 FEE ACREAGE 240.00 80.12 320.12

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| LAND OFFICE  | REQUEST F  | OR ALLOWABLE   |  |
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| DPERATOR PERCE   | AUTHORIZATION TO TRAN  | SPORT OIL AND NATURAL GASAR  | HBAL OFFICE  |
| Cyrecelar  | ating Partners, L.P.   |  |  |
| Address  |  |  |  |
| 500 W. Illinois, Sui<br>Resson(s) for Johns (Check proper  | te 500, Midland, TX 79701  | · Other (Please esplain)   |  |
| New Well   | - Change in Transporter al:  | n>   |  |
| Recompletion   | 011 Dry (  |  |  |
| Change in Ownership  | Casinghead Gas Cond  |  |  |
| If change of ownership give nar  | "  |  |  |
| and address of previous owner.   | 111  |  | <del> </del>   |
| DESCRIPTION OF WELL A  | ND LEASE   | Formation   Kind of Lease  | Lease No   |
| Chase 2 State  |  | 1  | i or Foo State 1405  |
| Location   |  |  |  |
| Unit Letter N ::   | 1980 Feel From The West  | ine andFeet From "   | The South  |
| time of Section 2  | Tourselle 225 Barra  | 27E , NMPM, Eddy   | <b>A</b> .   |
| Lins of Section 2  | Township 22S Range   | 27E , NMPM, Eddy   | County   |
|  | ORTER OF OIL AND NATURAL O   | AS   | and another the state of the st |
| None of Authorized Transporter o   | Cil 📺 or Contensate 🔀  | Aidress (Give address to which appro-  |  |
| Permian Corp.<br>Home of Authorized Transporter of   | Casinghead Gas ar Dry Gas 🕅  | P. O. Box 3119, Midland<br>Address (Give address to which approv   |  |
| Pinnacle Natural Gas   | Со.  | P. O. Box 11248, Midlan  | d, TX_ 79702   |
| If well produces oil or liquids,   | Unit Sec. Twp. Rige.   | is gas actually connected?   |  |
| give location of tanks.  | <u>N</u> 2 22S 27E   | Yes  | 1-28-88  |
| Designate Type of Compl  |  | New Well Workover Drepen   | Plug Bocz Same Resty, Diff, Der'   |
|  | Date Compl. Ready to Prod.   | Total Depth  | P.B.T.D.   |
| 12-17-86   | 3-9-87   | 10,705<br>Top Oll/Gas Pay  | P.B.T.D.<br>10,558<br>Tubing Depth   |
| 12-17-86<br>Elevations (DF, RKB, RT, CR. ez.<br>3105.4 GL  | 3-9-87   | 10,705   | 10,558<br>Tubing Depth<br>9470   |
| Elevations (DF, RKB, RT, CR, et)<br>3105.4 GL<br>Perforations  | 3-9-87   | 10,705<br>Top Oll/Gas Pay  | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shoe  |
| 12-17-86<br>Elevations (DF, RKB, RT, CR. ez.<br>3105.4 GL  | 3-9-87<br>"Imme of Producing Formation<br>Wolfcamp   | 10,705<br>Top OII/Gos Poy<br>9579  | 10,558<br>Tubing Depth<br>9470   |
| 12-17-86<br>Elevations (DF, RI.B, RT, CR. et.<br>3105.4 CL<br>Perforations   | 3-9-87<br>"Imme of Producing Formation<br>Wolfcamp   | 10,705<br>Top Oll/Gas Pay  | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shoe  |
| 12-17-86<br>Elevationa (DF, RKB, RT, CR, et<br>3105.4 CL<br>Perforationa<br>9579-9693'<br>HOLE SIZE<br>17 1/2  | 3-9-87<br>Time of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AN<br>CASING & TUBING SIZE<br>13 3/8  | 10,705<br>Top Oil/Gos Poy<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455   | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shoe<br>10,699<br>SACKS CEMENT<br>475   |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, et<br>3105.4 GL<br>Perforations<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4  | 3-9-87<br>Time of Producing Formation<br>Wolfcamp<br>TUBING, CASING, A1<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8   | 10,705<br>Top OIL/Gos Pay<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100  | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shoe<br>10,699<br>SACKS CEMENT<br>475<br>2375   |
| 12-17-86<br>Elevationa (DF, RKB, RT, CR, et<br>3105.4 CL<br>Perforationa<br>9579-9693'<br>HOLE SIZE<br>17 1/2  | 3-9-87<br>Time of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AN<br>CASING & TUBING SIZE<br>13 3/8  | 10,705<br>Top Oil/Gos Poy<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455   | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shoe<br>10,699<br>SACKS CEMENT<br>475   |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, et<br>3105.4 GL<br>Perforations<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>TEST DATA AND REQUEST  | 3-9-87<br>Tubing of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>FOR ALLOWABLE (Test must be  | 10,705<br>Top OIL/Gos Poy<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>after recovery of total volume of load oil   | 10,558           Tubing Depth           9470           Depth Casing Shoe           10,699           SACKS CEMENT           475           2375           1236   |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, et<br>3105.4 CL<br>Perforations<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>FEST DATA AND REQUEST<br>DIL WELL  | 3-9-87<br>Tubing of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>FOR ALLOWABLE (Test must be  | 10,705<br>Top OU/Gos Poy<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470  | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shoe<br>10,699<br>SACKS CEMENT<br>475<br>2375<br>1236<br>i<br>and must be equal to or escend top of::   |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, et<br>3105.4 CL<br>Perforations<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>FEST DATA AND REQUEST<br>DIL WELL  | 3-9-87<br>"Iame of Producing Formation<br>Wolfcamp<br>TUBING, CASING, A)<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>CFOR ALLOWABLE (Test must be<br>able for this.  | 10,705<br>Top OI/Gos Poy<br>9579<br>ND CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>ofter recovery of toral volume of load oil<br>depth or be for full 24 hours)<br>Producing Kethod (Flow, pump, gas lij)  | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236         i         ond must be equal to or exceed top of:         (i, eic.)  |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, et<br>3105.4 GL<br>Perforations<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4  | 3-9-87<br>"Iame of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>CFOR ALLOWABLE (Test must be<br>able for this.  | 10,705<br>Top OIL/Gos Poy<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>ofter recovery of total volume of load oil<br>depth or be for full 24 hours  | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shoe<br>10,699<br>SACKS CEMENT<br>475<br>2375<br>1236<br>i<br>and must be equal to or escend top of::   |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, etc.)<br>3105.4 GL<br>Perforations<br>9579-9693'<br>MOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>TEST DATA AND REQUEST<br>DIL WELL<br>Date First New Oll Hun To Tanke<br>Length of Test  | 3-9-87<br>"Iame of Producing Formation<br>Wolfcamp<br>TUBING, CASING, A)<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>CFOR ALLOWABLE (Test must be<br>able for this.  | 10,705<br>Top OI/Gos Poy<br>9579<br>ND CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>ofter recovery of toral volume of load oil<br>depth or be for full 24 hours)<br>Producing Kethod (Flow, pump, gas lij)  | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236         i         ond must be equal to or exceed top of:         (i, eic.)  |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, etc.)<br>3105.4 GL<br>Perforations<br>9579-9693'<br>MOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>TEST DATA AND REQUEST<br>DIL WELL<br>Date First New Oll Hun To Tanke<br>Length of Test  | 3-9-87<br>TUDING, CASING, AI<br>CASING & TUDING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>CASING ALLOWABLE (Test must be<br>able for this<br>Tubing Pressure  | 10,705<br>Top Oil/Gas Pay<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>after recovery of total volume of load oil<br>depth or be for full 24 hours)<br>Producing Kisthod (Flow, pump, gas ful<br>Cosing Pressure  | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shae<br>10,699<br>SACKS CEMENT<br>475<br>2375<br>1236<br>and must be equal to or exceed top all:<br>fi. etc.j<br>Chale Size   |
| 12-17-86<br>Elevations / DF, R.K.B. RT. CR. etc.<br>3105.4 GL<br>Performans<br>9579-9693'<br>MOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>FEST DATA AND REQUEST<br>DIL WELL<br>Date First New OIL Hun To Tanke<br>Length of Teel<br>Actual Pred. During Teel<br>CAS WELL  | 3-9-87<br>TUBING, CASING, AI<br>CASING & TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>CFOR ALLOWABLE (Test must be<br>able for this<br>Tubing Pressure<br>Oil-Bbie.  | 10,705<br>Top OIL/Gas Pay<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>after recovery of total volume of load oil<br>depth or be for full 24 hours)<br>Producing Kethod (Flow, pump, gas ity<br>Casing Pressure<br>Water-Bble.  | 10,558<br>Tubing Depth<br>9470<br>Depth Casing Shae<br>10,699<br>SACKS CEMENT<br>475<br>2375<br>1236<br>and must be equal to or exceed top all:<br>fi. etc.)<br>Chake Sise<br>Gae-MCF  |
| 12-17-86<br>Elevations (DF, R.I.S. RT. CR. 41,<br>3105.4 GL<br>Perforations<br>9579-9693'<br>MOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>FEST DATA AND REQUEST<br>DIL WELL<br>Date Firel New OII from To Tanke<br>Length of Teel<br>Actual Prod. During Teel<br>SAS WELL<br>Actual Prod. Teel-MCF/D  | 3-9-87<br>"Iame of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>FOR ALLOWABLE (Test mut be<br>able for this<br>Date of Test<br>Tubing Pressure<br>Oil-Bbis.   | 10,705<br>Top Oil/Gas Pay<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>after recovery of total volume of load oil<br>depth or be for full 24 hours)<br>Producing Kisthod (Flow, pump, gas ful<br>Cosing Pressure  | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236   |
| 12-17-86<br>Elevations (DF, R.K.B. RT, CR, er,<br>3105.4 GL<br>Perforations<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>FEST DATA AND REQUEST<br>DIL WELL<br>Date Firet New OIL Hun To Tanke<br>Length of Test<br>Actual Pred. During Test<br>SAS WELL<br>Actual Pred. Test-MCF/D<br>278  | 3-9-87<br>TUBING, CASING, AI<br>CASING & TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>CFOR ALLOWABLE (Test must be<br>able for this<br>Tubing Pressure<br>Oil-Bbie.  | 10,705<br>Top OIL/Gas Pay<br>9579<br>HD CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>after recovery of total volume of load oil<br>depth or be for full 24 hours)<br>Producing Kethod (Flow, pump, gas ity<br>Casing Pressure<br>Water-Bble.  | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236         and must be equal to or exceed top all:         fi. etc.j         Chake Size         Gos-MCF         Grouity al Condensate         63,7   |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, er,<br>3105.4 GL<br>Perforations<br>9579-9693'<br>MOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>FEST DATA AND REQUEST<br>DIL WELL<br>Date First New OIL Hun To Tanke<br>Length of Test<br>Actual Pred. During Test<br>CAS WELL<br>Actual Pred. Test-MCF/D<br>278  | 3-9-87<br>"Imme of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>FFOR ALLOWABLE (Test must be<br>able for this<br>Date of Test<br>Tubing Pressure<br>Oil-Bbie.   | 10,705         Top OI/Gos Pay<br>9579         HD CEMENTING RECORD         DEPTH SET         455         2,100         10,699         9,470         ofter recovery of toral volume of load oil<br>depits or be for full 24 hours)         Producting Kethod (Flow, pump, gas light         Cosing Pressure         Water - Bble.         Bble. Condensous/MMCF         22   | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236   |
| 12-17-86<br>Elevations (DF, RKB, RT, CR, er,<br>3105.4 GL<br>Perforations<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>FEST DATA AND REQUEST<br>DIL WELL<br>Date First New OIL Hun To Tanke<br>Length of Teel<br>Actual Prod. During Teel<br>SAS WELL<br>Actual Prod. Teel-MCF/D<br>278<br>Teeling Method (pirol, beck pr.)<br>FLOW  | 3-9-87<br>"Imme of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>5 1/2<br>2 3/8<br>FFOR ALLOWABLE (Test must be<br>able for this<br>Date of Test<br>Tubing Pressure<br>OII-Bble.<br>Length of Test<br>10 hrs<br>Tubing Pressure (Sbut-Im)<br>3950   | 10,705         Top OIL/Gas Pay         9579         ND CEMENTING RECORD         DEPTH SET         455         2,100         10,699         9,470         after recovery of total values of load oil         denth or be for full 24 haurs         Producing Kethod (Flow, pump, sas it)         Casing Pressure         Water - Bble.         Dill CONSERVAT   | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236         and must be equal to or exceed top all:         Chake Size         Gas-MCF         Chake Size         8/64         ION DIVISION   |
| 12-17-86<br>Elevations / DF, RKB, RT, CR, er,<br>3105.4 GL<br>Perforations<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>TEST DATA AND REQUEST<br>Date Firet New OII Run To Tanke<br>Length of Test<br>Actual Prod. During Test<br>CAS WELL<br>Actual Prod. Test-WCF/D<br>278<br>Testing Method (priof, beck pr.)<br>Flow.<br>ERTIFICATE OF COMPLI.   | 3-9-87<br>"Imme of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>5 1/2<br>2 3/8<br>FFOR ALLOWABLE (Test must be<br>able for this<br>Date of Test<br>Tubing Pressure<br>OII-Bble.<br>Length of Test<br>10 hrs<br>Tubing Pressure (Sbut-Im)<br>3950   | 10,705         Top OU/Cos Pay<br>9579         HD CEMENTING RECORD         DEPTH SET         455         2,100         10,699         9,470         after recovery of total valume of load oil<br>dept or be for full 24 Abours?         Producing Kinthod (Flow, pump, gas it)         Cosing Pressure         Water-Bble.         0         DIL CONSERVAT         MAR 1 0   | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236         and must be equal to or exceed top all:         Chake Size         Gas-MCF         Chake Size         8/64         ION DIVISION   |
| 12-17-86<br>Elevations / DF, R.K.B. RT. CR. er.<br>3105.4 GL<br>Perforations<br>9579-9693'<br>MOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>TEST DATA AND REQUEST<br>OIL WELL<br>Date First New OIL Run To Tance<br>Length of Test<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. Test-MCF/D<br>278<br>Testing Method (priod, beck pr.)<br>FIOW.<br>ERTIFICATE OF COMIPLI.<br>hereby certify that the rules a | 3-9-87<br>"Iame of Producing Formation<br>Wolfcamp<br>TUBING, CASING, AI<br>CASING & TUBING SIZE<br>13 3/8<br>8 5/8<br>5 1/2<br>2 3/8<br>FOR ALLOWABLE (Test mut be<br>able for this<br>Date of Test<br>Tubing Pressure<br>Oil-Bbis.<br>Units of Test<br>10 hrs<br>Tubing Pressure (Sbut-Im)<br>3950<br>ANCE   | 10,705         Top OIL/Cos Pay<br>9579         HD CEMENTING RECORD         DEPTH SET         455         2,100         10,699         9,470         after recovery of total volume of load oil<br>dept or be for full 24 Awar)         Preducing Kinthod (Flow, pump, gas in)         Cosing Preseure         Water - Bble.         DIL CONSERVAT         APPROVCD         MAR 10  | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236         and must be equal to or exceed top all:         Chake Size         Gas-MCF         Chake Size         8/64         ION DIVISION   |
| 12-17-86<br>Elevations / DF, R.K.B. RT. CR. er.<br>3105.4 GL<br>Perforations<br>9579-9693'<br>MOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>TEST DATA AND REQUEST<br>OIL WELL<br>Date First New OIL Run To Tance<br>Length of Test<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. Test-MCF/D<br>278<br>Testing Method (priod, beck pr.)<br>FIOW.<br>ERTIFICATE OF COMIPLI.<br>hereby certify that the rules a | 3-9-87       "Iame of Producing Formation<br>Wolfcamp       TUBING, CASING, AI       CASING & TUBING SIZE       133/8       85/8       51/2       23/8       CFOR ALLOWABLE (Test must be able for this able | 10,705         Top OIL/Cas Pay         9579         ND CEMENTING RECORD         DEPTH SET         455         2,100         10,699         9,470         ofter recovery of torol volume of load oil         depth or be for full 24 hours)         Producing Kethod (Flow, pump, cas big         Casing Pressure         Water-Bble.         DIL CONSERVAT         APPROVCD       MAR 10         By       DUL AND SAG MADER  | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236   |
| 12-17-86<br>Elevations (DF, R.).B. RT. CR. er.<br>3105.4 GL<br>Performions<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>FEST DATA AND REQUEST<br>DIL WELL<br>Date Firet New OIL Hun To Tanke<br>ENCINE Firet New OIL Hun To Tanke<br>Length of Test<br>Actual Prod. During Test<br>CAS WELL<br>Actual Prod. During Test<br>CAS WELL<br>Actual Prod. Test-MCF/D<br>278<br>Testing Method (pilol, back pr.)<br>F10W<br>ERTIFICATE OF COMIPLI.<br>Nereby certify that the rules a<br>ivision have been complied works           | 3-9-87       "Iame of Producing Formation<br>Wolfcamp       TUBING, CASING, AI       CASING & TUBING SIZE       13 3/8       8 5/8       5 1/2       2 3/8       CFOR ALLOWABLE (Test must be<br>able for this       Date of Test       Tubing Pressure       Oll-Bble.       Lungth of Test       10 hrs       Tubing Pressure (Sbut-Ia)       3950       ANCE       nd that the information given<br>the best of my knowledge and belief.  | 10,705<br>Top OU/Cos Pay<br>9579<br>ND CEMENTING RECORD<br>DEPTH SET<br>455<br>2,100<br>10,699<br>9,470<br>ofter recovery of toral volume of load oil<br>depth or be for full 24 hours)<br>Producing Method (Flow, pump, gas his<br>Cosing Pressure<br>Water-Bbie.<br>Bbis. Condencate/ApdCF<br>22<br>Cosing Pressure (Sbat-IB)<br>0<br>DIL CONSERVAT<br>APPROVED MAR 10<br>BY THAN MAS INOPES   | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236   |
| 12-17-86<br>Elevations (DF, R.I.B. RT, CR. er.<br>3105.4 GL<br>Performines<br>9579-9693'<br>HOLE SIZE<br>17 1/2<br>12 1/4<br>7 7/8<br>TEST DATA AND REQUEST<br>DIL WELL<br>Date Firel New OIL Run To Tance<br>Length of Test<br>Actual Prod. During Test<br>SAS WELL<br>Actual Prod. During Test<br>ERTIFICATE OF COMIPLI.<br>Nereby certify that the rules a  | 3-9-87       "Iame of Producing Formation<br>Wolfcamp       TUBING, CASING, AI       CASING & TUBING SIZE       13 3/8       8 5/8       5 1/2       2 3/8       CFOR ALLOWABLE (Test must be<br>able for this       Date of Test       Tubing Pressure       Oll-Bble.       Lungth of Test       10 hrs       Tubing Pressure (Sbut-Ia)       3950       ANCE       nd that the information given<br>the best of my knowledge and belief.  | 10,705         Top OU/Cos Pay<br>9579         HD CEMENTING RECORD         DEPTH SET         455         2,100         10,699         9,470         after recovery of total volume of load oil<br>depth or be for full 24 Anavei         Producting Method (Flow, pump, gas full<br>Producting Method (Flow, pump, gas full<br>Cosing Pressure         Water-Bble.         0         DIL CONSERVAT         APPROVCD         MAR 1 0         BY         TITLE         0         Tittle _ OIL AND 948 INPER         Tittle is a request for allow | 10,558         Tubing Depth         9470         Depth Casing Shoe         10,699         SACKS CEMENT         475         2375         1236   |

able on new and recomploted wells. Fill out only Sections I. M. MI, and VI for changes of owner well mane or monter, or transporter, or other such change of conditi-Senarete Forms C-104 must be filed for each pool in multi-

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1 1-29-88 (1)414)

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| COMPLETION DATA                    |           | Oil Well     | Gas We |
|------------------------------------|-----------|--------------|--------|
| Designate Type of Completi         | on - (X)  | i i          | X      |
| Date Spudded                       | Date Comp | . Ready to F | rod.   |
| 12-17-86                           | 3-        | 9-87         |        |
| Elevations (DF, RKB, RT. CR. etc.) | "ame of P | roducing For | nation |
| 3105.4 GL                          | Wo1       | fcamp        |        |
| Perforations                       |           |              |        |

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| 011  | CONSERVATION DIVISI   | DN RECEIVED  |
|--|---|--|
|  |   |  |
| Hobbs<br>P.O. Box 1980<br>Hobbs, NM 88240            | Artesia<br>P.O. Drawer DD<br>Artesia, NM 88210                      | MAR 01 '88 Aztec<br>1000 Rio Brazos<br>O. C. <sup>A</sup> D. <sup>tec</sup> , NM 87410 |
| NOTICE OF GAS WELL -                                 | 1988<br>CONNECTION / RECONNE  | TION / DISCONNECTION   |
| his is to notify the Oil                             | Conservation Division   | n of the following:  |
| Connection 👔 🔔 F                                     | irst Delivery <u>01-28-</u><br>Date                                 |  |
| Reconnection F                                       | irst Delivery<br>Date   | e Initial Potential  |
| Disconnection  | · · ·   |  |
| or delivery of gas from t                            | Opera   |  |
|  | <u>Chase 2 State</u><br>Lea:  | 5e   |
| n/a n/a<br>eter Code Site Code                       | Unit Le   | tter S-T-R   |
|  | East Carlsbad W   | Volfcamp Pool  |
|  |   | Pool   |
| as made on<br>date                                   | •   |  |
| AOF  |   |  |
| Var.<br>Choke  | وحيها ومروحهم سيند بالكار فليرد الكفيف الأخلابية ومختبه المكانيونين | al Gas Company<br>sporter  |
| UNURC .  | 11 dil  | alor nat   |
| OCD use only<br>County Eddy                          |   | s, President<br>ive Name/Title<br>ype or print)  |
| Sim  | $(\Lambda n)$   |  |
| Land Type <u>Male</u><br>Liq. Transporter <u>PNG</u> | - Marles  | Ative Signature  |

Submit in duplicate to the appropriate district office.

| BEATE OF DEW MEXICO<br>WERGY AND MINERALS DEPARTMENT   |  | ATION DIVISION '  | Form C-104<br>Revised 10-1-78  |
|--|--|---|--|
|  |  |   |  |
|  | RECEIVED SANTAFE. NEV  | W MEXICO 87501  |  |
|  |  |   |  |
| OPERATOR   |  |   | -  |
| Cheraior   |  |   | · ····································   |
| Santa Fe Energy Opera  | iting Partners, L.P.   | · · · · · · · · · · · · · · · · · · ·   |  |
|  |  | . Other iPlease evolution   |  |
| Ne- Well   | Change in Transporter of:  | 1 B   | bbls - April Allowable -   |
| Recomptetion Change in Ownership   | Casingheod Cas   | an III  | -  |
|  |  | · · ·   |  |
|  | APR 27 1987  |   | ······································   |
| Lesse Name   | NE Karlator  |   |  |
|  | Sil LLis Filling Wolfer  | thp Stole, Fod  | eral or Fee  |
| Unit Letter N ;  | 1980 Feet From The West Li   | ne and 990 Feet Fra   | m The South  |
| Line of Section 2  | <b>Å</b> .   |   |  |
| · · · · · · · · · · · · · · · · · · ·  |  |   |  |
|  |  |   | proved copy of this form is to be sent)  |
| Permian Corp.  | Casinghead Gas ] at Dry Gas  |   |  |
|  |  |   |  |
| If well produces oil or liquids,<br>give location of tanks.  | Unit Sec. Twp. Rge.<br>N 2 22S 27E   | Is gas actually connected?  | When   |
|  | with that from any other lease or pool,  | give commingling order number:  | · · · · · · · · · · · · · · · · · · ·  |
|  | tion - (X)   | New Well Workover Deepen  | Plug Back Same Resiv. Diff. Ner  |
| Date Spudded   | Date Compl. Ready to Prod.   | Total Depth   | P.B.T.D.   |
| Elevations (DF. RUB ET CR are  | 1 tigme of Producing Formation   | Top Oll/Gas Pay   | Tubing Depth   |
|  | <u> </u>   |   |  |
| Perforations   |  |   | Depth Casing Shoe  |
|  |  |   |  |
| HOLE SIZE  | CASING & TUBING SIZE   | DEPTH SET   | SACKS CEMENT   |
|  |  |   |  |
|  |  |   |  |
|  | FOR ALLOWABLE (Test mut be a   |   | oil and must be equal to or exceed top allo  |
| Date First New Oll Run To Tanks  | Date of Test   |   | lift, etc.j  |
| Langth of Teal   | Tubing Pressure  | Craine Pressure   | Chote Size   |
|  |  |   |  |
| Actual Prod. During Test   | Oil-Bbis.  | Water - Bble.   | Gas • MCF  |
| CAS WELL   |  | ······································  |  |
| Actual Prod. Test-MCF/D  | Length of Test   | Bbia. Condensate/MMCF   | Gravity of Condensate  |
|  |  | ·   |  |
|  |  | Cooing Pressure (Sbut-in)   | Choke Size   |
| Teeling Method (piros, back pr.)   | Tubing Plessows (Shut-in)  |   |  |
| Teeting Method (pirot, Back pr.)   |  | DIL CONSERV   | ATION DIVISION   |
| 1. CERTIFICATE OF COMPLIA  | NCE  |   | ATION DIVISION   |
| 1. CERTIFICATE OF COMPLIA<br>1 hereby certify that the rules an<br>Division have been complied wi  | NCE<br>d regulations of the Oli Conservation<br>th and that the information given  | APPROVED APR  |  |
| 1. CERTIFICATE OF COMPLIA<br>1 hereby certify that the rules an<br>Division have been complied wi  | NCE<br>diregulations of the Oli Conservation   | APPROVED APR S  | emento   |
| "I. CERTIFICATE OF COMPLIA<br>I hereby certify that the rules an<br>Division have been complied will<br>above is true and complete to t  | NCE<br>d regulations of the Oli Conservation<br>th and that the information given  | APPROVED APR  | ements   |
| 1. CERTIFICATE OF COMPLIA<br>1 hereby certify that the rules an<br>Division have been complied wi<br>above is true and complete to the<br>Bullie Mattack                                 | NCE<br>d regulations of the OII Conservation<br>th and that the information given<br>he best of my knowledge and belief, | APPROVED APR S<br>DY Less Mr. ()<br>TITLE SHIPERVISOR,<br>This form as to is filed to<br>If this is a request for all   | 2 3 1987<br>concreto<br>DISTRICT 4<br>a compliance with PULE 1100.<br>provide for a newly dilled or deepen.  |
| 1. CERTIFICATE OF COMPLIA<br>1 hereby certify that the rules an<br>Division have been complied wh<br>above is true and complete to the<br>Bullue Manna<br>(Sin                           | NCE<br>d regulations of the Oll Conservation<br>th and that the information given<br>he best of my knowledge and belief. | APPROVED APR S<br>BY Car Min (1)<br>TITLE SHIPERVISOR,<br>If this is a request for all<br>well, this form must be accom<br>tests taken on the well in acc   | 2 3 1987<br>ements<br>DISTRICT U<br>a compliance with RULE 1190.<br>compliance with RULE 1190.<br>compliance with RULE 1190.<br>contained with RULE 119.   |
| 1. CERTIFICATE OF COMPLIA<br>1 hereby certify that the rules an<br>Division have been complied will<br>above is true and complete to the<br>Bullue Mattin<br>(Sin<br>Sr. Production Cler | NCE<br>d regulations of the Oll Conservation<br>th and that the information given<br>he best of my knowledge and belief. | APPROVED APR S<br>BY Car Min (1)<br>TITLE SHIPERVISOR,<br>If this is a request for all<br>well, this form must be accom<br>tests taken on the well in acc   | 2 3 1987<br><u>Concerto</u><br><u>DISTRICT 4</u><br>a compliance with <u>RULE 1100</u><br>panied by a tobulation of the deviati<br>cordance with <u>RULE 111</u><br>part be filled out completely for silo   |
|  |  | P. O. INC     P. O. INC | the second |

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|---|---------------------------------------|-----------------|--------------------|-----------------|---------------------------------------|-----------------|---------------------------------------|--|--------------|-----------|-------------------|
| CALL DAMAGENES DEPARTMENT       OIL GONSERVATION DIVISION       10-015-25698         Division of matching of the construction of the consthe constenend of the construction of the construction   | STATE OF NEL                          |                 |                    |                 |                                       | •               |                                       | •.   |              |           |                   |
| OIL GONSERVATION DIVISION       Santa Participation of the construction of the consthe construction of the construction of the  |                                       |                 |                    |                 |                                       |                 |                                       | :  | 30           |           |                   |
| interact       SANTA PELOS BASE       Santa PELOS BASE       Santa PELOS BASE         Unasservice       WELL COMPLETION DERECOMPLETING REFORM AND LOG       1005         WELL COMPLETION DERECOMPLETING REFORM AND LOG       1005       1005         Well States of Completion       entres       1.0       1.0         State PE Energy Operating Partners, L.P.       Or. C.D.       10       1005         States of Completion       1980       rest result       0.0       0.0       1007         Comparison       1980       rest result mediation       1005.40 GR.       1007       1000         Comparison       10.0 Forecome       17. Disconting in the state       1005.40 GR.       1007       1000000         10.0 To south the states of the state       10.0 Forecome       10.0 Forecome       10.0 Forecome       10.0 Forecome         10.0 To south the state of the state       10.0 Forecome       10.0 Forecome       10.0 Forecome       10.0 Forecome       10.0 Forecome         10.0 To south the state       10.0 Forecome       10.  |                                       |                 |                    | OIL             | GONSERVA                              | ATION E         |                                       | SION   |              |           |                   |
| 1.103       1.003         1.104       1.003         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.111       1.111         1.  | DISTRIBUTIO                           | N J             |                    |                 |                                       | ALZON PIC       | 13                                    | in)  |              | State X   | ] F•              |
| W.A.       WELL COMPLETION OR RECOMPLET ROR REFORM AND LOG       1000         WILL       WELL COMPLETION OR RECOMPLET ROR REFORM AND LOG       1000         YTTE G FAIL       WILL       U.U.       1000         YTTE G F COMPLETION       RECEIVED BY       1000       1000         YTTE G F COMPLETION       State       1000       1000       1000         YTTE G F COMPLETION       1000       YELL       1000       1000       1000         YELL       1000       YELL       1000       1000       1000       1000       10000         YELL       10000       10000       YELL       100000       100000       100000       1000000       10000000       1000000000       1000000000000000000000000000000000000  | SANTA FE                              | 1               |                    | SA              | NTA FELDER                            | VIMEXICO        | 2 875                                 | 011  | 5.5          | State Oil | & Gas Lease No.   |
| Unit any rect     WELL COMPLETION OR RECORD LETION PREPARED AND LOD       Unit any rect     """       State PE Energy Operating Partners, L.P.     APR       Soluting of Operating     """       Soluting of Operating     """ <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1405</td> <td></td>  |                                       |                 |                    |                 |                                       |                 |                                       |  |              | 1405      |                   |
| Image: State in the interval of                               |                                       |                 | WEI                | L COMPLE        | TION OR REG                           | GMP LET IS      | <b>N</b> REI                          | HORT AND   |              | TÎÎÎ      | mmm               |
| If the Grant Line       If the Line and Line  | ·                                     |                 |                    |                 |                                       | 47 11           | · · · · · · · · · · · · · · · · · · · |  |              | IIII      |                   |
| TYPE OF COMPLETION       Site   | · _ ·                                 |                 | <u></u>            |                 | AN CON                                |                 |                                       |  | 7. 1         | Jnit Agre | ement Name        |
| trt:  |                                       |                 | 016                | GAS             |                                       | 1.18.12         | ED P                                  | Y  |              |           |                   |
| It is in the intervention of the interventervente interventing of the intervention of the inter                               | - TYPE OF COMPLE                      | TION            | <b>WELL</b>        |                 |                                       | RECEN           | en .                                  | ·  | . 8. 1       | arm or L  | ease Name         |
| Santa Fe Energy Operating Partners, L.P.       APR - 0.1961       S. Well No.         Santa Fe Energy Operating Partners, L.P.       APR - 0.1961       S. Well No.         Solution Stress Operator       Solution Stress Operator       Solution Stress Operator       Solution Stress Operator         Solution Stress Operator       Solution Stress Operator       Solution Stress Operator       Solution Stress Operator       Solution Stress Operator         Construction Stress Operator       Solution Stress Operator       Solution Stress Operator       Solution Stress Operator       Solution Stress Operator         Construction Stress Operator       Solution Stress Operator       Solution Stress Operator       Solution Stress Operator       Solution Stress Operator         Construction Stress Operator       Solution Stress Operator       Stress Operator       Stress Operator       Stress Operator         Construction Stress Operator       Stress Operator       Stress Operator       Stress Operator       Stress Operator         Solution Stress Operator       Stress Operator       Stress Operator       Stress Operator       Stress Operator       Stress Operator         Solution Stress Operator       Stress Operatoperator       Stress Operator   |                                       |                 |                    |                 |                                       | OTHER           | 0 11)                                 | 7  |              | Chase     | 2 State           |
| inderess of Operator       Diff read and pools, diffulence         500 W. TIllinois, Suite 500, Midland, TX 7901 ARTSA OFFICE       Diff read and pool, diffuser with the component of well         12:000000000000000000000000000000000000   |                                       |                 |                    |                 | /                                     | APR -           | 0 13                                  |  | 9. 1         | Well No.  |                   |
| inderess of Operator       Diff read and pools, diffulence         500 W. TIllinois, Suite 500, Midland, TX 7901 ARTSA OFFICE       Diff read and pool, diffuser with the component of well         12:000000000000000000000000000000000000   | Santa Fe E                            | nergy O         | perati             | ng Partner      | s, L.P.                               | • •             | c D                                   |  |              | 1         |                   |
| Lecenten of Weil<br>Terrers_N   |                                       |                 |                    |                 |                                       | 0.              | C. 0                                  | ICE  | 10.          | Field an  | Pool, of Wildcat  |
| Lecenten of Well  Terrers_N   | 500 W. I11                            | inois,          | Suite              | 500, Midla      | ind, TX 797                           | 01 ARTES        | A, Or                                 |  | <i>E</i> ,   | Undes     | Wolfcamp          |
| Could Line of rec.       Carlow 225       rec.       277       278 <th278< th="">       278       278       <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>IIII</td><td></td></t<></th278<>   |                                       |                 |                    |                 |                                       |                 |                                       |  |              | IIII      |                   |
| Could Line of rec.       Carlow 225       rec.       277       278 <th278< th="">       278       278       <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>/////</td><td></td></t<></th278<>  |                                       |                 |                    |                 |                                       |                 |                                       |  |              | /////     |                   |
| c. South Line or site:       2 may.       225       set.       27E       set.       27E       set.       27E       set.       27E       Eddy       Eddy         2. Date Spudded       15. Date T.D. Reached       17. Date Compl. (Ready to Prod.)       18. Elevations (DF, RAB, RT, GR, etc.)       19. Elev. Combination (DF, RAB, RT, GR, etc.)       10. 5.4'       GL         10, 705       10, 558       10. 558       . <td>T LETTER N</td> <td>LOCATE</td> <td><b>.</b> <u>19</u></td> <td>80 PEET P</td> <td>ROM THE West</td> <td> LINE AND</td> <td>, <u>990</u></td> <td></td> <td>T FROM</td> <td>(1111)</td> <td></td>   | T LETTER N                            | LOCATE          | <b>.</b> <u>19</u> | 80 PEET P       | ROM THE West                          | LINE AND        | , <u>990</u>                          |  | T FROM       | (1111)    |                   |
| 2. Die Spudded       15. Dark T.D. Reached       17. Date Compl. ( <i>Redy to Prod.</i> )       18. Elevations ( <i>Dr. R.B., R.T., G.R., etc.</i> )       19. Elev. Cashingheed         12-17-87       1-19-87       1-19-87       3-9-87       3105.4' GL       3105.4' GL         7. Total Depth       12. Flug Back T.D.       22. It Multiple Completion of this completion - Top, Edition, Name       31. Instructing interval and the completion of this completion - Top, Edition, Name       32. Instructing interval and the completion - Top, Edition, Name       32. Instructing interval and the completion of this completion - Top, Edition, Name       32. West Directional Mode         9579-9693'       Wolf camp       27. Wes well Cored       No          CASING SIZE       Weicht La/FT.       Deprin size       Construction Size       Centerving RECORD       A100HT Put         13.3/8       48       455       17. 1/2       475 sx Cl C       No         13.3/8       48       455       17. 1/2       475 sx Cl C       No         13.3/8       48       455       17. 1/2       475 sx Cl C       No         13.1/2       23       10699       7.7/8       1236 sx Cl H       No         13.1/2       23       10699       7.7/8       1236 sx Cl H       No         14.1       DEPTH SZ       Size       Depr  |                                       |                 |                    |                 |                                       |                 | Ш                                     | XIIIIX   | 12.          | County    | VIIII             |
| 2. Die Spudded       16. Date T.D. Reached       17. Date Compl. (Ready to Prod.)       18. Elevations (Dr. RKB, RT, GR, etc.)       19. Elev. Cashindeed         12. 17-87       1-19-87       3-9-87       31. Dire Compl., How       23. Intervals.  | e South Line or                       | sec. 2          | TWP                | . 225 RG        | E. 27E NMP                            | • <i>\\\\\\</i> | $\Pi \Pi$                             | $\chi$   |              | Eddy      |                   |
| 1. Total Depth       21. Plug Back T.D.       22. Manyline Compl., How       23. herevis the conversion of the convertice of the conversion of the conversion of the conve  | 5. Date Spudded                       |                 |                    | ched 17. Date   | Compl. (Ready to                      | Prod.) 18.      |                                       |  | B, RT, GR, e | (c.) 19.  | Elev. Cashinghead |
| 10,705     10,558     Many     Drilled By     All       4. Producing Interval(s), of this completion - Top, Bottom, Name     9579-9693' Wolfcamp     8     8     1       7. Type Electric and Other Logs Run Basehole Compensated Sonic Log, Dual Laterolog-SFL     27. Was Well Cored     No       1. Type Electric and Other Logs Run Basehole Compensated Neutron Formation Density, Dual Induction-SFL     27. Was Well Cored     No       CASING RECORD (Report all strings set in well)     CASING RECORD (Report all strings set in well)     AMOUNT PUI       13.3/8     48     455     17 1/2     475 sx Cl C     AMOUNT PUI       13.3/8     48     455     17 1/2     475 sx Cl C     AMOUNT PUI       13.3/8     48     455     17 1/2     475 sx Cl C     AMOUNT PUI       13.3/8     48     455     17 1/2     475 sx Cl C     AMOUNT PUI       13.3/8     48     455     17 1/2     475 sx Cl C     Amount Anno Num Anno   | 12-17-87                              | 1-1             | 9-87               | 3-9             | 9-87                                  |                 | 3105                                  | .4'GL  |              |           |                   |
| 10,705       10,558   | ). Total Depth                        | 2               | I. Plug B          | ack T.D.        |                                       | le Compl., Ho   | w a                                   |  |              | ols       | Cable Tools       |
| Mode       9579-9693' Wolf camp     No       Type Electric and Other Logs Run Basehole Compensated Sonic Log, Dual Laterolog-SFL     27. Wes Well Cored       Compensated Neutron Formation Density, Dual Induction-SFL     27. Wes Well Cored        CASING RECORD (Report all strings set in well)     30.       CASING SIZE     WEIGHT LB./FT.     DEPTH SET     HOLE SIZE     CEMENTING RECORD     AHOUNT PUI       13 3/8     48     455     17 1/2     475 sx Cl C     AHOUNT PUI       13 3/8     48     455     17 1/2     475 sx Cl C     AHOUNT PUI       13 3/8     48     455     17 1/2     475 sx Cl C     AHOUNT PUI       13 3/8     48     455     17 1/2     475 sx Cl C     AHOUNT PUI       13 3/8     48     455     17 1/2     475 sx Cl C     AHOUNT PUI       13 3/8     48     455     17 1/2     120 state & 1125 cl C     AHOUNT PUI       13 1/2     23     10699     7 7/8     1236 sx Cl H     Image: State and stressection stressection and number/       9579-9693'     2 JSPF - 52 holes     30.     TUBING RECORD     31. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.       9579-9693'     Acidize w/6000 gals 15%     15%     Hours Tesind     St WOPL       12*     ACID, SHOT, FRACTURE, CEMENT S  | 10,705                                |                 | 10,                | 558             |                                       |                 | ·                                     | >  |              |           |                   |
| CASING SIZE       WEIGHT LB./FT.       DEPTH SET       HOLE SIZE       CEMENTING RECORD       AHOUHT PULL         13 3/8       48       455       17 1/2       475 sx Cl C       0       0       0         8 5/8       24       2100       12 1/4       1250 Lite & 1125 Cl C       0       0       0         5 1/2       23       10699       7 7/8       1236 sx Cl H       0   |                                       |                 |                    | mation Der      | nsity, Dual                           | Induction       | n-SFI                                 | J  | - <u></u>    |           |                   |
| 13 3/8       48       455       17 1/2       475 sx Cl C         8 5/8       24       2100       12 1/4       1250 Lite & 1125 Cl C         5 1/2       23       10699       7 7/8       1236 sx Cl H         LINER RECORD         SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER S         9579-9693' 2 JSPF - 52 holes         PRODUCTION         In Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Pred. or Shut-ing)         9579-9693' 2 JSPF - 52 holes         PRODUCTION         In Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Pred. or Shut-ing)         9579-9693' Acidize of Colspan="2">Acidize of Colspan="2">OIL Ford/on Shut-ing         In Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Pred. or Shut-ing)         SI Woll         3 PRODUCTION         Var.         OIL Ford/on For         OIL Ford/on For         OIL Ford/on For         OIL Ford/on For <th>·!.</th> <th><u></u></th> <th></th> <th></th> <th></th> <th></th> <th>s set in</th> <th></th> <th></th> <th></th> <th></th>   | ·!.                                   | <u></u>         |                    |                 |                                       |                 | s set in                              |  |              |           |                   |
| 8 5/8       24       2100       12 1/4       1250 Lite & 1125 Cl C         5 1/2       23       10699       7 7/8       1236 sx Cl H         LINER RECORD       30.       TUBING RECORD         SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER S         9579-9693'       2 JSPF - 52 holes       32.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USE         9579-9693'       2 JSPF - 52 holes       9579-9693'       Acidize w/6000 gals 15% HO         .       PRODUCTION       SI Well Status (Pred. or Shut-in)         .       PRODUCTION       SI WOPL         .       SI WOPL       SI WOPL         .       Case - MCF       Well Status (Pred. or Shut-in)         .       SI WOPL       SI WOPL         .       Case - MCF       Well Status (Pred. or Shut-in)         .       SI WOPL       SI WOPL         .       .       .       .         .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .       .  |                                       |                 |                    |                 |                                       |                 |                                       |  |              |           |                   |
| 5 1/2       23       10699       7 7/8       1236 sx C1 H         LINER RECORD       30.       TUBING RECORD         SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER S         SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER S         1. Perforation Record (Interval, size and number)       2. 3/8       9470       9470         9579-9693'       2 JSPF - 52 holes       32.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         9579-9693'       2 JSPF - 52 holes       9579-9693'       Acidize w/6000 gals 15% HO         3-9-87       Flowing       PRODUCTION       Mount AND KIND MATERIAL USE         3-9-87       Flowing       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Pred. or Shut-in)         3-9-87       Flowing       SI WOPL       SI WOPL         cite of Tost       Nous Tested       Choke Size       Prod'n. Fcr       Oll - ubil.       Cas - MCF       Water - Bbil.       Gas - Oll Her.io         3-9-87       4       Var.       Prod'n. Fcr       Oll - bbil.       Gas - MCF       Water - Bbil.       Oll Gravity - API (Con         2250       pkr       36   |                                       |                 |                    |                 |                                       |                 | ·                                     |  |              | <u> </u>  |                   |
| LINER RECORD  LINER RECORD  SIZE  TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER S  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470 9470  2.3/8 9470 9470  2.3/8 9470 9470 9470  2.3/8 9470 9470 9579-9693 2.3/8 9470 9579-9693 2.3/8 9470 9579-9693 2.3/8 9470 9579-9693 2.3/8 9579-969 2.3/8 9579-9693 2.3/8 9579-969 2.3/8 9579-9693 2.3/8 9579-9693 2.3/8 9579-9693 2.3/8 9579-9693 2.3/8 9579-9693 2.3/8 9579-9693 2.3/8 9579-9693 2.3/8 9579-969 2.3/8 9579-9693 2.3/8 9579-9693 2.3/8 9579-9693 2.3/8 9579-969 |                                       |                 |                    |                 |                                       |                 |                                       | the second s |              | <u> </u>  |                   |
| SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER S         1. Perforation Record (Interval, size and number)       2.3/8       9470       9470         9579-9693' 2 JSPF - 52 holes       22. ACIO, SHOT, FRACTURE, CEMENT SQUEZE, ETC.       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USE         9579-9693' 2 JSPF - 52 holes       9579-9693'       Acidize w/6000 gals 15% HC         9579-9693' 2 JSPF - 52 holes       9579-9693'       Acidize w/6000 gals 15% HC         9579-9693'       Production Mothod (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         3-9-87       Flowing       Production, Fer       OII - Uol.       Cas - MCF       Water - Bbl.       Gas - OII Relie         3-9-87       4       Var.       Fresh Period       6       63       0       10,483         10w Tubing Press.       Cating Pressure       Colculated 24- OII - Bbl.       Gas - MCF       Water - Bbl.       OII Growity - API (Cor         2250       pkr       36       889       0       63.7       63.7         Vented       36       889       0       63.7       63.7       63.7         Vented       .       .       .       .       .       63.7       . </td <td></td> <td></td> <td><u> </u></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>125</td> <td></td> <td>•</td> <td>^</td> <td></td>  |                                       |                 | <u> </u>           |                 | · · · · · · · · · · · · · · · · · · · |                 | 125                                   |  | •            | ^         |                   |
| SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER S         1. Perforation Record (Interval, size and number)       2.3/8       9470       9470         9579-9693' 2 JSPF - 52 holes       22. ACIO, SHOT, FRACTURE, CEMENT SQUEZE, ETC.       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USE         9579-9693' 2 JSPF - 52 holes       9579-9693'       Acidize w/6000 gals 15% HC         9579-9693' 2 JSPF - 52 holes       9579-9693'       Acidize w/6000 gals 15% HC         9579-9693'       Production Mothod (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         3-9-87       Flowing       Production, Fer       OII - Uol.       Cas - MCF       Water - Bbl.       Gas - OII Relie         3-9-87       4       Var.       Fresh Period       6       63       0       10,483         10w Tubing Press.       Cating Pressure       Colculated 24- OII - Bbl.       Gas - MCF       Water - Bbl.       OII Growity - API (Cor         2250       pkr       36       889       0       63.7       63.7         Vented       36       889       0       63.7       63.7       63.7         Vented       .       .       .       .       .       63.7       . </td <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>LIN</td> <td></td> <td>k</td> <td></td> <td><u> </u></td> <td>a.</td> <td>TUBL</td> <td>IG RECO</td> <td></td>  | · · · · · · · · · · · · · · · · · · · |                 | LIN                |                 | k                                     |                 | <u> </u>                              | a.   | TUBL         | IG RECO   |                   |
| 2. 3/8       9470       9470         1. Perforation Record (Interval, size and number)       32.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         9579-9693' 2 JSPF - 52 holes       32.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         9579-9693' 2 JSPF - 52 holes       9579-9693' Acidize w/6000 gals 15% HO         9579-9693' Acidize w/6000 gals 15%         9-87       4     <  | SIZE                                  | тор             |                    |                 | SACKS CEMENT                          | SCREEN          |                                       |  |              |           |                   |
| 1. Perforation Record (Interval, size and number)       32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         9579-9693' 2 JSPF - 52 holes       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USE         9579-9693' 2 JSPF - 52 holes       9579-9693' Acidize w/6000 gals 15% HO         3.       PRODUCTION         2.       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status /Prod. or Shut-in)         3.9-87       Flowing       SI WOPL         21.9-87       4       Var.       Gas - MCF         Year       Test Period       Gas - Oll Relia       Oll Gravity - API (Con         2250       pkr       36       889       0       63.7         4. Disposition of Can (Sold, used for fuel, vented, etc.)       36       889       0       63.7         4. Disposition of Can (Sold, used for fuel, vented, etc.)       Test Witnessed By       Castury hou the information shown on both states of this form is true and complete to the best of my knowledge and belief.  |                                       |                 |                    |                 | Griding GEment                        |                 |                                       |  |              | J         |                   |
| 9579-9693' 2 JSPF - 52 holes       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USE         9579-9693' Acidize W/6000 gals 15% HC       9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Browner         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Browner         9579-9693' Browner         9579-9693' Flowing         9579-9693' Status (Pred. or Shut-in)         9579-9693' Status (Pred. or Shut-in)         9579-9693' Status (Pred. or Shut-in)         9579-967         9579-967         9579-9693' Flowing         9579-9693' Status (Pred. or Shut-in)         96       63      <   |                                       |                 |                    |                 |                                       | · · · · ·       |                                       | 2 570  |              |           |                   |
| 9579-9693' 2 JSPF - 52 holes       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USE         9579-9693' Acidize W/6000 gals 15% HC       9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Million Acidize W/6000 gals 15% HC         9579-9693' Acidize W/6000 gals 15% HC         9579-9693' Million Acidize W/6000 gals 15%         9-87       4         9-87       4         9-87       4         9-87  | 1. Perforation Record                 | (Interval, s    | ize and ni         | mber)           | ·                                     | 32.             | ACID.                                 | SHOT, FRAC   | TURE. CEM    | ENT SOI   | JEEZE, ETC.       |
| 9579-9693       2 JSFF - 52 HOLES         9579-9693       Acidize w/6000 gals 15% HC         Acidize w/6000 gals 15% HC         PRODUCTION         Ste First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)         Ste First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)         Ste First Production       Flowing         3-9-87       Flowing         Ste of Tool       Nouss Tested         Choke Size       Production Off Cas - MCF         Water - Bbl.       Gas - Off Herlow         3-9-87       4         Var.       Test Period         Calculated 24- Off - Bbl.       Gas - MCF         Water - Bbl.       Off Gas - Off Herlow         2250       pkr         Mar       36         Acidize (Sold, used for fuel, vented, etc.)       Vented         Vented       Test Witnessed By         Vented       Test Witnessed By         List of Attachments       C122, deviation, logs, C104         Cleve infly that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.   |                                       |                 |                    | •               |                                       | DEPTH           |                                       |  |              |           |                   |
| 2.       PRODUCTION         2. the First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         3-9-87       Flowing       SI WOPL         ate of Tost       Hours Tested       Choke Size       Prod'n, For       Oll - ibbl.       Cas - MCF       Water - Bbl.       Gas - Oll Relie         3-9-87       4       Var.       Test Period       6       63       0       10,483         tow Tubing Press.       Casing Pressure       Calculated 24 - Oll - Bbl.       Gas - MCF       Water - Bbl.       Oll Gravity - API (Con         2250       pkr       Baur Bate       36       889       0       63.7         4. Disposition of Cas (Sold, used for fuel, vented, etc.)       Test Witnessed By       Vented       Test Witnessed By         Cl22, deviation, logs, C104   | 95/9-9693'                            | Z JSPF          | - 52               | notes           | ··· ·                                 | <u></u>         |                                       |  | cidize w     | /6000     | gals 15% HC       |
| PRODUCTION         Ite First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Pred. or Shut-in)         3-9-87       Flowing       SI WOPL         atter of Test       Hours Tested       Choke Size       Production         3-9-87       4       Var.       Other Period       6       63       0       10,483         3-9-87       4       Var.       Period       6       63       0       10,483         10w Tubing Press.       Cating Pressure       Calculated 24- Oll - Bbl.       Gas - MCF       Water - Bbl.       Oll Gravity - API (Con         2250       pkr       Hour Hate       36       889       0       63.7         4. Disposition of Cas (Sold, used for fuel, venied, etc.)       Test Witnessed By       Vented         Cliss of Attachiments       Clo22, deviation, logs, Cl04       Test witnessed By         Cli22, deviation, logs, Cl04       A       A       A  |                                       |                 |                    |                 | • .                                   |                 |                                       |  |              |           |                   |
| Interference       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         3-9-87       Flowing       SI WOPL         atts of Tost       Hours Tested       Choke Size       Prod'n. For Oil - Bbl.       Gas - MCF       Water - Bbl.       Gas - Oil Reilo         3-9-87       4       Var.       Pend Period       6       63       0       10,483         iow Tubing Press.       Casing Pressure       Calculated 24- Cil - Bbl.       Gas - MCF       Water - Bbl.       Oil Gravity - API (Con 63.7)         2250       pkr       36       889       0       63.7         A Disposition of Cas (Sold, used for fuel, venied, etc.)       Vented       Test Witnessed By         Vented       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .       .         .       .       .       .   |                                       |                 |                    |                 |                                       |                 |                                       |  |              |           |                   |
| Interference       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         3-9-87       Flowing       SI WOPL         atts of Tost       Hours Tested       Choke Size       Prod'n. For Oil - Bbl.       Gas - MCF       Water - Bbl.       Gas - Oil Reilo         3-9-87       4       Var.       Pend Period       6       63       0       10,483         iow Tubing Press.       Casing Pressure       Calculated 24- Cil - Bbl.       Gas - MCF       Water - Bbl.       Oil Gravity - API (Con 63.7)         2250       pkr       36       889       0       63.7         A Disposition of Cas (Sold, used for fuel, venied, etc.)       Vented       Test Witnessed By         Vented       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .       .         .       .       .       .   |                                       |                 |                    |                 |                                       |                 |                                       |  |              |           | -                 |
| 3-9-87       Flowing       SI WOPL         als of Tost       Hours Tested       Choke Size       Pred'n, For<br>Tent Period       Oll - Libl.       Gas - MCF       Water - Bbl.       Gas - Oll Re:lo         3-9-87       4       Var.       Tent Period       6       63       0       10,483         iow Tubing Press.       Casing Pressure       Calculated 24-<br>Hour Bale       Oll - Bbl.       Gas - MCF       Water - Bbl.       Oll Gravity - API (Con<br>63.7         2250       pkr  |                                       |                 |                    |                 |                                       |                 |                                       |  |              |           |                   |
| are of Tost       Nours Tested       Choke Size       Prod'n. For<br>Tent Period       Oil - Libl.       Gas - MCF       Water - Bbl.       Gas - Oil Reliv         3-9-87       4       Var.       -       6       63       0       10,483         tow Tubing Press.       Casing Pressure<br>pkr       Calculated 24-<br>Hour Bate       Cil - Bbl.       Gas - MCF       Water - Bbl.       Oil Gravity - API (Con<br>63.7         2250       pkr       -       36       889       0       63.7         4. Disposition of Gas (Sold, used for fuel, vented, etc.)       Vented       Test Witnessed By         Vented       Test Witnessed By         1. List of Attachments         C122, deviation, logs, C104       Test witnessed by beth sides of this form is true and complete to the best of my knowledge and belief.  |                                       |                 |                    |                 | ving, gas lift, pum                   | ping - Size ai  | nd type                               | pump)  |              |           | •                 |
| 3-9-87       4       Var.       Tent Period       6       63       0       10,483         Control Pressure         Calculated 24- CII - Bbl.       Gas - MCF       Water - Bbl.       Oil Gravity - API (Control Control Contecontrol Control Contecontrol Control Contro   | · · ·                                 | - <del></del> l |                    |                 |                                       |                 | -                                     |  |              |           |                   |
| 3-9-87       4       Var.       6       63       0       10,483         iow Tubing Press.         Casing Press.       Casing Pressure       Calculated 24- Oil - Bbl.       Gas - MCF       Water - Bbl.       Oil Gravity - API (Control Cas (Sold, used for fuel, vented, etc.)         2250       pkr       36       889       0       63.7         4. Disposition of Gas (Sold, used for fuel, vented, etc.)       Vented       Test Witnessed By         Vented         List of Attachments         C122, deviation, logs, C104         Vented complete to the best of my knowledge and belief.  |                                       |                 | sted               | 1               |                                       |                 | 1                                     |  | 1            | 361.      |                   |
| 2250       pkr       Hour Rate       36       889       0       63.7         4. Disposition of Cas (Sold, used for fuel, vented, etc.)       Vented       Test Witnessed By         Vented       C122, deviation, logs, C104         5. List of Attachments       C122, deviation, logs, C104         6. List of hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.  |                                       |                 |                    | }               |                                       | L               |                                       |  |              | l         |                   |
| <ul> <li>A. Disposition of Gas (Sold, used for fuel, venied, etc.)</li> <li>Vented</li> <li>Test Witnessed By</li> <li>Class of Attachments</li> <li>Cl22, deviation, logs, Cl04</li> <li>I hereby versify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.</li> </ul>  | -                                     | 1               | reasure            |                 | 1                                     | 1               |                                       | 1  |              |           |                   |
| Vented<br>List of Attachments<br>C122, deviation, logs, C104<br>. thereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.  |                                       |                 | los fuel           |                 | 06                                    | 88              | 2                                     |  |              |           |                   |
| List of Attochments<br>C122, deviation, logs, C104<br>. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.   |                                       | (anor, used     | jor juel, 1        | venteu, etc.j   |                                       |                 |                                       |  | Test Wit:    | essed B   | 1                 |
| C122, deviation, logs, C104<br>. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.  |                                       |                 |                    |                 |                                       |                 |                                       |  |              |           |                   |
| . I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.   |                                       | •               |                    | 104             |                                       |                 |                                       |  |              |           |                   |
|   |                                       |                 |                    |                 | - of this fact is                     | word with       |                                       | - h  | · · · · · ·  |           |                   |
| Billin Want Sr Production Clark (207  |                                       |                 |                    | e on born side. | s of ours form is in                  | Le une comple   | ι <del>ς</del> μ) (Λ                  | e vestoj my  | knowledge an | a velief. |                   |
|   | R                                     | 11. 2           | last               | • .             | C                                     | Duclas          | -1                                    | C1 amls  |              |           | -07               |
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#### INSTRUCTIONS

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This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall aims be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

#### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| T. Anhy   |   | Sour                 | neastern  | New Mexic   | 0  |                |           | Northw                                     | estem Ne     | w Mexico      |       |
|---|---|----------------------|---|---|--|----------------|-----------|--|--------------|---------------|-------|
| 1. 2004   |   |                      | T.  | Canyon  | A support of the second s | T. Ojo /       | Alamo     |  | Т.           | Penn. ''B''   |       |
|   |   |                      |   | Strewn  | alterna -  |                |           |  |              | Penn. "C"     |       |
| B. Salt_  |   |                      | Т.  | T. Atoka10625   |  |                | red Cliff | fs   | т.           | Penn. "D"     |       |
| T. Yates  | s   |                      | T.  | Miss  | <u>10) de cor</u>  | T. Cliff       | House _   |  | Т.           | Leadville     |       |
| T. 7 Riv  | ers   |                      | <u></u> Т.  | Devonian  | _  | T Mene         | fee       |  | T.           | Madison       |       |
| T. Queer  | n   |                      | T.  | Sulurian  | <u> </u>   | T Point        | Lookou    | t  | T.           | Elbert        |       |
| T. Grayt  | Grayburg T. Montoya San Andres T. Simpson                                 |                      |   |   | T. Manc  | os             |           | Т.   | McCracken    |               |       |
| T. San A  | Andres  |                      | T.  | Simpson _   | ·····  | T. Gallu       | P         |  | Т.           | Ignacio Qtzte |       |
| T. Glorie   | eta   |                      | т.  | McKee   | ·  | Base Gre       | enhorn _  | ······································     | T.           | Granite       |       |
|   |   |                      |   |   |  |                |           |  |              |               |       |
| T. Bline  | bry   |                      | Т.  | Gr. Wash.   |  |                | son       |  | Т.           | `<br>•••••••  |       |
|   | Tubb T. Granite   |                      |   |   |  |                |           |  |              |               |       |
| T. Drink  |   |                      |   |   |  |                |           |  |              |               |       |
| T. Abo _  |   |                      | T.  | Bone Sprin  | ngs <u>5360</u>  | T. Wing        | ate       | · · · · · · · · · · · · ·                  | Т.           | ·             |       |
| T. Wolfc  | :amp  | 9578                 | T.  |   |  | T. Chinl       | e         |  | <u> </u>     |               |       |
|   | 9851  |                      |   |   | T. Perm  | i an           |           |  | <u></u>      |               |       |
| T Cisco   | (Bough C  | C)                   | T.  |   |  | T. Penn        | ''A''_    |  | Т.           | -             |       |
|   |   |                      |   |   | OIL OR G   | AS SANDS       | OR ZO     | NES  |              | ·             |       |
| No. 1. fror   | T)  |                      |   |   |  |                |           |  |              |               |       |
|   |   |                      |   |   |  |                |           |  | •            | •             |       |
| No. 2, fron   | n   |                      |   | .to   |  |                | 2010      |  |              | to            |       |
| No. 3 from  |   |                      |   | to.   |  |                |           |  |              |               |       |
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| No. 2, from   | n   |                      | • • • • • • • • • • • • • • • • • • •                             |   | to<br>to   |                |           | feet.<br>feet.                             | ************ |               |       |
| No. 2, fron<br>No. 3, fron  | n   |                      |   | · · · · · · · · · · · · · · · · · · ·   | to   |                |           | fcet.<br>fcet.                             | ·····        | ****          |       |
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| No. 2, fron<br>No. 3, fron  | n<br>n  |                      |   | · · · · · · · · · · · · · · · · · · ·   | to   |                |           | fcet.<br>fcet.                             | <br>         |               |       |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>From<br>0  | n<br>n<br>To<br>530   | Thickness<br>in Feet | Sd, S   | FORMATIO<br>Form<br>h & Anhy  | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               |       |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520   | пп.<br>пто<br>530<br>1976   | Thickness<br>in Feet | Sd, S<br>Anhy,  | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa  | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               |       |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976   | n<br>n<br>To<br>530<br>1976<br>2107                                       | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar   | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm                                      | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107                                 | n<br>n<br>530<br>1976<br>2107<br>3935                                     | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S                                  | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa  | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935                         | пто<br>530<br>1976<br>2107<br>3935<br>4880                                | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd                            | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh                             | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880                                | пто<br>530<br>1976<br>2107<br>3935<br>4880<br>6065                        | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S                   | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>h                        | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065         | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725         | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L          | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>h<br>m, Sh               | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>From<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725 | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725<br>8775 | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L<br>Sd, L | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065         | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725         | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L          | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725 | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725<br>8775 | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L<br>Sd, L | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725 | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725<br>8775 | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L<br>Sd, L | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725 | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725<br>8775 | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L<br>Sd, L | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725 | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725<br>8775 | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L<br>Sd, L | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               | ····· |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725 | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725<br>8775 | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L<br>Sd, L | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               |       |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>From<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725 | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725<br>8775 | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L<br>Sd, L | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               |       |
| No. 2, from<br>No. 3, from<br>No. 4, from<br>Prom<br>0<br>520<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725 | <b>T</b> •<br>530<br>1976<br>2107<br>3935<br>4880<br>6065<br>6725<br>8775 | Thickness<br>in Feet | Sd, S<br>Anhy,<br>Lamar<br>Lm, S<br>Sd<br>Lm, S<br>Sd, L<br>Sd, L | FORMATION<br>Form<br>h & Anhy<br>Lm & Sa<br>Lm<br>d, Sh<br>d, Sh<br>h<br>m, Sh<br>m | to   | ich additional | sheets    | fcet.<br>fcet.<br>if necessor<br>Thickness | <br>         |               |       |



WILLBROS DRILLING, INC.



**OPERATOR:** 

Santa Fe Energy Operating Partners, L.P. 500 W. Illinois, Suite 500 Midland, Texas 79701 LOCATION:

Chase)State Z No. 1, Eddy County, New Mexico, 1980' FWL, 990' FSL, Section 2, T-22-S, R-27-E.

| DEPTH<br>FEET | INCLINATION<br>DEGREES | DEPTH<br>FEET | INCLINATION<br>DEGREES | DEPTH<br>FEET | INCLINATION<br>DEGREES |
|---------------|------------------------|---------------|------------------------|---------------|------------------------|
| 167           | 1/2                    | 2,878         | 1                      | 8,091         | 1-3/4                  |
| 310           | . 1-1/2                | 3,019         | 3/4                    | 8,333         | 2                      |
| 403           | 1 - 1 / 2              | 3,395         | 3/4                    | 8,640         | 2-3/4                  |
| 593           | 1                      | 3,765         | 3/4                    | 8,950         | 2-3/4                  |
| 750           | 2                      | 4,240         | 3/4                    | 9,269         | 2-1/4                  |
| 815           | 2                      | 4,669         | 3/4                    | 9,606         | 2-1/2                  |
| 876           | 2-1/2                  | 5,240         | 1-1/4                  | 10,075        | 2-1/4                  |
| 935           | 2                      | 5,727         | 2-3/4                  | 10,660        | 1-3/4                  |
| 996           | 2                      | 5,948         | 2-1/4                  | 10,700        | 1-3/4                  |
| 1,098         | 1-3/4                  | 6,236         | 1-3/4                  |               |                        |
| 1,435         | 1-1/2                  | 6,543         | 1-3/4                  |               |                        |
| 1,659         | 3-1/2                  | 6,862         | 2                      |               |                        |
| 1,745         | 2-3/4                  | 7,268         | 3-1/2                  |               |                        |
| 1,888         | 2 - 1/2                | 7,447         | 3-1/2                  |               |                        |
| 2,301         | 1-1/2                  | 7,641         | 2-3/4                  |               |                        |
| 2,565         | 1                      | 7,854         | 1                      |               |                        |

COUNTY OF MIDLAND STATE OF TEXAS

The undersigned states that he has knowledge of the facts and matter herein set forth and that the same are true and correct.

SUBSCRIBED AND SWORN TO BEFORE ME THIS

President day of

My commission expires: December, 1988

| Enter          | " STATE OF                       | IERALS I          | DEPAF                | Q                               |                         | P.<br>A FE.        | O. UOX<br>NEW            | 2088<br>MEXIC  | 087              | 501                     | · · ·                 | APR -  | 6 1987              | 5 F<br>n C-129<br>fised 19-1-78       |
|----------------|----------------------------------|-------------------|----------------------|---------------------------------|-------------------------|--------------------|--------------------------|--|------------------|-------------------------|-----------------------|--|---------------------|---------------------------------------|
| 4P             | OINT                             |                   |                      |                                 | Z Annual                | <u>; · ] [ ] (</u> |                          |  |                  | 3-9-8                   |                       |  |                     |                                       |
|                | ANTA FE                          | Kol.              |                      |                                 |                         |                    | [R                       |  |                  |                         |                       | Unit   |                     |                                       |
|                | pletion Late $-4-87$             | 20000             | 1                    |                                 |                         |                    | CAMP<br>Bug Back<br>1055 | 1  | 1                | Clevation               |                       |  | Lease Nam           | 1                                     |
| C              | . 500                            | ₩1.<br>23⋕        |                      | 4.670                           | 5+1 AI<br>10699         | ,                  | erloratio                | 57 <u>9</u> .  | I                | 9693                    |                       | Well No  | . 1                 |                                       |
| 2              | - 375<br>- 375<br>- Well - Singl | 4.7               | nhead                | 1.995<br>-6.6. or 6.0           | 9470<br>9470            |                    | _                        | OPEN<br>Pocker Sc  | To<br>1 A1       | ENDED                   | ·                     | N  | 2                   | TWP. Hye.<br>225 27E                  |
| Frod           | INGLE                            |                   |                      | olf Temp. *F                    |                         |                    | emp. *F                  | 947<br>Baro, Pra   | 38               | e<br>a                  |                       | Stole  | DDY                 |                                       |
|                | UBING<br>L<br>636                | <br>963           |                      | ● 9636<br>∝<br>• 7234           | 60<br>* co <sub>2</sub> |                    | * N 2                    | <u>13</u> .<br>514   | 2<br>* 1125<br>0 | Pro                     | l<br>v•r<br>0         | Meler  | MEXIC<br>Hun<br>068 | CO<br>Taps<br>FLG                     |
| NO.            | Prover<br>Line<br>Size           | × -               | FL<br>rifice<br>Size | OW DATA<br>Press.<br>p.s.l.g.   | Diff,<br>hw             |                    | Temp.<br>*F              | where we are a subscript of the subscrip | •••              | )ΑΤΛ<br>Tomp.<br>*Γ     | Bl<br>Prez<br>p. s. J | HP (   | DATA<br>Temp.<br>•F | Duration<br>of<br>Flow                |
| SI<br>1.       | 3.068                            |                   | 000                  | 405                             | 3.5                     |                    | 85                       | <u>3984</u><br>3410  | )                | 65<br>64                | 5418<br>4879          | )  | 221<br>221          | 123 HR<br>60 MIN                      |
| 2.<br>3.<br>4. | 3.068<br>3.068<br>3.068          | 1.                | 000<br>000<br>000    | <u>410</u><br>415<br>415        | 6.0<br>15.0<br>23.0     |                    | 85<br>78<br>75           | <u>3022</u><br>2645<br>2250  | 5                | <u>64</u><br>63<br>62   | 4514<br>4049<br>3581  |  | 221<br>221<br>221   | 60 MIN<br>60 MIN<br>60 MIN            |
| 5.             |                                  |                   |                      | l                               | RAT                     | E OF               | FLOW                     | CALCUL   | ATIC             | NS                      |                       |  |                     |                                       |
| NO.            | Coellici<br>(24 Hos              |                   | _                    | √ <sup>h</sup> w <sup>P</sup> m |                         | ente<br>W          |                          | r Temp.<br>actor<br>Fl.  |                  | Gravily<br>Factor<br>Fg | Cor                   | iuper<br>noress,<br>lor, Fpv                               |                     | te of Flow<br>Q, McId                 |
| 1              | 4.789                            | 9                 |                      | 38.26<br>50.39                  | 42                      | 8.2                | 0.                       | 9768<br>9768   | 1.               | 1757<br>1757            | 1.0                   | 455  | 22                  | 0                                     |
| 3.<br>4.<br>5. | 4.78                             |                   |                      | <u>80.14</u><br>99.24           |                         | 8.2<br>8.2         |                          | 9831<br>9859   |                  | 1757<br>1757            |                       | 1492   | <u> </u>            |                                       |
| NO.            | n<br>0.63                        | тетр.<br>545      |                      | τ <sub>r</sub>                  | z<br>0.915              | A.P.I              | . Gravity                | drocarbon f<br>of Liquid f<br>y Separator  | lydroe           | anodar                  | 0,483<br>63.7         | <b>.</b>   |                     | Мсі́љы.<br>Deg.<br><u>X X X X X X</u> |
| 2.<br>3.<br>4. | 0.64                             | 545<br>538        |                      | 1.38<br>1.36                    | 0.914<br>0.908          | Speci              | lie Gravii               | y Flowing<br>areE  | Fluid .          | x                       | <u> </u>              |  | 0.9                 | <u> </u>                              |
| 5<br>Fe        | 3958                             | <u>535</u>        |                      | 1.35                            | 0.907                   |                    |                          |  |                  |                         | r                     |  | RL_463              |                                       |
| NO<br>1<br>2   | P1<br><u>11718</u><br>9212       | P.,<br>346<br>314 |                      | P.2<br>12035<br>9892            | 5777                    |                    |                          |  |                  |                         | -                     | ν <u>ε</u><br>2 <sup>2</sup> - κ <sub>w</sub> <sup>2</sup> | -] •4               | .5362                                 |
| 3 4 5          | 7066                             | 274               | 4                    | 7527                            | 8139<br>10121           | AOF :              | • • [_                   | $\frac{R^2}{R^2 - R^2}$  | -]" =            | 889.                    | 4                     |  |                     |                                       |
| <u> </u>       | oiute Open Fl                    |                   |                      |                                 |                         |                    |                          |  |                  | of Slope A              |                       |  | Slope,              | 0.983                                 |
| Rem            | arks: <u> </u>                   | NOTTO             | HO                   | LE PRES                         | SURE T                  | AKEN               | N WIT                    | H AMER   | ADA              | INSTR                   | UMENT                 | S  |                     | ·                                     |
| Аррі           | oved By Div                      | islon .           |                      | Conducto                        | JETT &                  | CATH               | HEY'                     | Culculated<br>RICH   | -                | TOWNL                   | 1                     | Checked  | Ωγι                 |                                       |

• •

**BENNETT & CATHEY PRODUCTION TESTING** 2987 **BACK PRESSURE CURVE** Operator Santa Fe Energy Lease Chase State 2 Well No. 1 
 County\_\_\_\_\_\_Eddy\_\_\_\_\_\_Field\_\_\_\_\_\_Location\_\_\_\_\_2
 22.5

 Date of Test\_\_\_\_\_\_3-9-87
 Slope "n"\_\_\_\_\_\_0.983
 Angle of Slope\_\_\_\_\_\_
 Location 2 22.S 27E 45.5 889.4 MCF/D Calc. Abs. Potentiai\_ 1.5 ...... . 1 ; 3 1+++ . . . . 1.1.1 7 114 . . . . ..... 1+1 6 5 ΞĒ 4 - Pw) in Thousands 1 -46 7400 2 5 PŁ 2 (PC · 444 . ++++6 ~പ് Ē 4 3 ŦĦ 2 open Acus Posolute LOGARITHMIC 3 X 3 CYCLES ' KEUFFEL & ESSER CO. MADE IN U.S.A. Calculated 887. 100 1-1-1 9 4 4 4 4 ++++ 444444 4-4-4-4 8 -+++ +++ 7 H ++++ ·<del>└·┝┤</del>┼<mark>╽</mark>┼┼┼ +++ 6 5 :!! Ж°М 3 2 8 9 100 2 3 4 5 6 7 8 9 10 4 3 6 7 8 9 10  $\frac{\overline{P_{1}^{2}}}{\overline{P_{2}^{2}}} = \frac{P_{1}^{2} - P_{1}^{2}}{P_{1}^{2} - P_{2}^{2}} = \frac{10000}{1000}$ Q In MCF/Day  $LOG \ Q_{1} = \underline{2.7538}$  $LOG \ Q_{2} = \underline{1.7708}$ = <u>567</u> = <u>59</u> n = 0.983Ferm 74. 1131

| ENERGY AND MINERALS DEPARTMENT<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>OUTDATION<br>O | VISION                   |  |
|--|--------------------------|--|
| DESTOBUTION<br>SANTA TE P. O. BOX 2068<br>SANTA TE SANTA FE, NEW MEXICO<br>U.S.G.S.<br>LANG OFFICE   | VISION /                 | · ·  |
| SANTA FE SANTA FE, NEW MEXICO<br>CLUB<br>LANG OFFICE   |                          | Form C-103                                   |
| CILL UN.G.S. LANG OFFICE   | 87501                    | Revised 10-1                                 |
| LANG OFFICE  |                          | 30-015-25698<br>Sa. Indicate Type of Lease   |
|  |                          | Strite X For                                 |
| OPERATOS   |                          | 5. State Chi & Gus Lease No.                 |
|  |                          | 1405   |
| SUNDRY NOTICES AND REPORTS ON WELLS  |                          |  |
| USE TAPPLICATION TOK PERMIT -T (FORM COULD FOR SUCH REC  | EIVED BY                 | 7. Unit Agreement Name                       |
| OIL CAS X GTHEN  |                          |  |
|  | <b>B - 5</b> 1987 - 1    | S. Farm of Lease Name                        |
| Santa Fe Energy Operating Partners, L.P.   |                          | Chase 2 State                                |
| I. Auctions of Operator .  | O. C. D.                 | 9. Well the.                                 |
| 500 W. 11110018, Build 500, 1222017, 11 1997   | TESIA, OFFICE            | 1  |
| Location of well   |                          | Undes. East Carlsbad                         |
| WRIT LETTER N 1980 FEET FROM THE WEST LINE AND   | 990                      |  |
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| THE South LINE, SECTION 2 TOWNSHIP 225 NAME  | NMP                      | ** (11)/11/11/11/11/11/11/11/11/11/11/11/11/ |
| 11111111111111111111111111111111111111   | ctc.)                    | 12. County                                   |
| //////////////////////////////////////   |                          | Eddy   |
| 16. Check Appropriate Box To Indicate Nature of N  | otice. Report of C       | Ther Data                                    |
| NOTICE OF INTENTION TO:  | =                        | NT REPORT OF:                                |
| PERFORM REMEDIAL WORK  | 08K ·                    | ALTERING CASING                              |
|  | INILLING OPHS.           | PLUG AND ABANDONMENT                         |
| PULL OR ALTER CASING CHANGE PLANS CASING TEST  | AND CEMENT JOS           |  |
|  |                          |  |
| OTHER  |                          |  |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give   | pertinent dates, includi | ng estimated date of starting any propo      |
| work) SEE RULE 1103.   |                          |  |
| 1-20-87:- Set 5 1/2", 23# N80 @ 10,699'. Cmt w/1235 s  | x C1 H w/5# KC1          | 4% Halad 22-A.                               |
| 3% CFR3. Circ cmt.   |                          |  |
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| 18. I hereby certify that the information above is true and complete to the best of my knowled   | ge and belief.           |  |
| Rui ph.  |                          | 2-3-87                                       |
| 18. I hereby certify that the information above is true and complete to the best of my knowled<br>secure Billie Hood yrvice Sr. Product  |                          | 2-3-87                                       |
| Aural.   |                          | 2-3-87                                       |
| Billie Hood Billie Hood The Sr. Product  |                          | <u>2-3-87</u><br><b>FEB (6 1987</b>          |

| STATE OF                            | NEW MEXICO   |   |
|-------------------------------------|--|---|
|                                     | FRALS DEPARTMENT   |   |
| 66, 67 Carite<br>D12 Filiti         |  | Form C-103  |
| SANCATE                             | RECEIVED BYA FE NEW MEXICO 87501   | Revised 10-1-7:<br>30-015-25698   |
| U.S.G.S.                            |  | Strie X For   |
| LANG OFFIC                          | JAN 1 2 1987   | State X For State Cil & Gus Leaso No.   |
|                                     |  | 1405  |
| (DO NET US                          | SUNDRY NOT ESIA AND REPORTS ON WELLS   |   |
| 1.<br>011 -                         | GAS<br>WELL X OTHER-   | 7. Unit Agreament Hame  |
| 2. Nume of Operator<br>Santa Fe H   | nergy Operating Partners, LP   | Chase 2 State   |
| 3. Audiens of Opera                 | tor  | 9. Well Ho.   |
| 500 W. Ill<br>4. Location of Well   | inois, Suite 500, Midland, TX 79701  | 10. Field and Pool, or Wildcar  |
| UNIT LETTER                         | N 1980 FEET FROM THE West LINE AND 990 FEET FR   | Undes. East Carlsbad<br>M Strawn  |
| THE Sout                            | h LINC, SECTION 2 TOWNSHIP 22S MANCE 27E NM  |   |
| <u>IIIIIIII</u>                     | ()))))))))))))))))))))))))))))))))))))   | 12. County  |
| 16.                                 | 11111111111111111111111111111111111111   | Eddy  |
| . ·                                 | Check Appropriate Box To Indicate Nature of Notice, Report or (<br>NOTICE OF INTENTION TO: SUBSEQUE                            | Dther Data<br>NT REPORT OF:   |
| PERFORM REMEDIAL                    | WORK PLUG AND ABANDON REMEDIAL WORK  | ALTERING CASING   |
| TEMPERARILY ABANI                   | ION COMMENCE DHILLING OPHS.  | PLUG AND ABANDONMENT  |
| PULL OR ALTER CAS                   | ING CHANGE PLANS CASING TEST AND CEMENT JQB X  |   |
| OTKER                               |  | · · ·   |
| 17. Describe Propo<br>work) SEE RUI | ed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, includ<br>E 1103.                   | ing estimated date of starting any proposer:  |
| Spud:                               | 12-17-86 @ 11:00 PM 17 1/2" hole   |   |
| 12-19-86:                           | Set 13 3/8" 48# H40 @ 455'. Cmt w/1000 gals flo ck. 150  |   |
| ••                                  | C1 C 2% CaCl <sub>2</sub> . Plug down @ 10 p.m. WOC 6 hrs. Run temp<br>Pick up 1" cmt to surface. WOC 15 hrs. Test to 600 psi. | survey TOC 160'.<br>Fesume drilling   |
|                                     | 12-20-86. Hole size 12 1/4".   |   |
| 12-27-86:                           | Set 8 5/8" 24# N-80 ST&C @ 2100'. Cmt w/1250 sx lite 15# followed by 360 sx Cl C 2% CaCl2. Did not circulate. Plu              | salt, 1/4# flocele  |
|                                     | WOC 9 hrs. Ran temp survey TOC 580'. Cmt thru 1" w/265 s   | x Cl C 3% CaCl2.  |
|                                     | Circulate 15 sx to pits. WOC 16 3/4 hrs. Test to 1500 ps 12-28-86.   | i. Resume drilling  |
|                                     |  |   |
|                                     |  |   |
| :                                   |  |   |
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|                                     |  |   |
| 18.1 hereby certily                 | that the information above is true and complete to the best of my knowledge shill belief.                                      | •   |
| 1                                   |  |   |
| BIGHED                              | lue and Billie Hood Sr. Production Clerk   | <u>1-6-87</u>   |
| -                                   | PAMA   | and a second distance of the second secon |
| APPROVED BY                         | es) M. Clements SUPERVISOR, DISTRICT D   | 18N 1 4 4007  |
|                                     | I NI C MITTEN TITLE TITLE INTERNET   | JAN 1 4 1987  |
| CONDITIONS OF A                     | PPROVAL, IF ANVI   | JAN 1 4 1907  |

| STATE OF NEW MEXICO  |   |  |                | 30-016                                  | -256               | 98               |
|--|---|--|----------------|---|--------------------|------------------|
| ENERGY AND MINERALS DEPARTMENT   | OIL CONSERVA                            |  |                | Form C-10<br>Revised 10-                | 1-78               | · · ].           |
| **. or content fictives  | P. C. DO<br>SANTA FE, NEW               | RECEIVED BY                                  |                |   |                    | V                |
| DISTRIBUTION<br>SANTA FE   | SANTA FE, NEW                           | MEXICO 87501                                 | 1              | _                                       | Type of Loas       |                  |
|  |   | NOV 10 1986                                  |                | BTATE                                   |                    | - <u> </u>       |
| U.S.G.S.   | 3                                       | 10 1300                                      | 1              | 5, State OIL                            | 6 Gas Louse 1      | Vo.              |
| LAND OFFICE  |   | O. C. D.                                     |                | 1405                                    |                    |                  |
|  |   |  |                | <u>IIIIII</u>                           | <u>IIIIII</u>      | TTTT             |
| APPLICATION FOR PE   | RMIT TO DRILL, DEEPE                    | AK OP PAPER SACK                             |                |   |                    | /////            |
| 1a. Type of Work   | المحقق بمعتصر المعتدين الم              | 0.0.111                                      |                | 7. Unit Agree                           | ement Name         | <u></u>          |
|  | TOTELL'                                 | 1-2111                                       |                |   |                    |                  |
| b. Type of Well  | DEFPEN                                  |  |                | 8. Farm or Le                           | ease Name          |                  |
| 011 643 7  |   |  |                |   |                    | L                |
|  | CA HUL DECIDI                           | - ZONELL                                     | 2016           | Chase 4                                 | <del>State</del> 2 | State            |
| 2. Name of Operator<br>Santa Fe Energy Operating<br>3. Address of Operator   |   | NOUNSION                                     |                | A. METI NO.                             |                    |                  |
| Santa Fe Energy Operating  | Partners L. Pouli                       |  |                | 1                                       |                    |                  |
| 3. Address of Operator   | OIL CU. SAMTA                           | F12  |                | 10. Field and                           | Pool, or Wild      | ical<br>shad     |
| 500 W. Illinois, Suite 500   | . Midland, TX 79701                     | •  |                |   | (Straw             | m)               |
|  | LOCATED 1980                            | FEET FROM THE West                           | LINE           | IIIII                                   | 111111             | $\overline{\Pi}$ |
|  |   |  | k              | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ///////            | <i>IIII.</i>     |
| AND 990 FEET FROM THE SOUTH  | LINE OF SEC. 2                          | · TWP. 225 RGE. 2                            | TE NMPM        |   |                    | /////            |
|  | anta anta anta anta anta anta anta anta | <u>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</u> |                | 12. County                              |                    | tttt             |
| $\boldsymbol{\chi} = \boldsymbol{\chi} = $ |   |  |                | Eddy                                    |                    | IIII.            |
|  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | *******                                      | *****          | TUTT                                    | hhhm               | <i>HH</i> ;      |
| AIIIIIIIIIIIIIIIIIIIIIIII  |   |  |                | ///////                                 | ///////            | /////            |
| $\overline{}$  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 19. Froposed Depth                           | 19A. Formation | <i>111111</i>                           | 7777777            | ÎΠ,              |
| XIIIIIIIIIIIIIIIIIIIIIIII  |   | 8  |                | Í                                       | 20. Retury or      | C. I.            |
| $\mathbf{X}$   |   | 10,700'                                      | Strawn         |   | Rotary             | ,                |
| 1. Elevations (show whether DF, KT, etc.)  | 21A. Kind & Status Plug. Bond           | 21B. Drilling Contractor                     | ,              | 22. Approx.                             | Date Work wi       | ll stært         |
| 3105.4 GL  | Current-Blanket                         | To be determ                                 | ined           | As so                                   | on as per          | mitte            |
| 23.  | PROPOSED CASING                         | AND CEMENT PROGRAM                           |                |   |                    |                  |

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|----------|
| · 17 1/2     | 13 3/8         | 48.0            | 450'          | 475             | Surface  |
| 12 1/4       | 8 5/8          | 24.0            | 2200'         | 980             | Surface  |
| 7 7/8        | 5 1/2          | 17.0            | 10700'        | 400             | 8000' ·  |

Move on location and rig up. Drill 17 1/2" hole to 450'. Run 13 3/8" casing and cement with 627 cu.ft. of Class C cement containing 2% CaCl2. Wait on cement until 500 psi compressive strength is obtained. Nipple up diverter system consisting of 1 bag type preventer. Test casing to 600 psi. Drill 12 1/4" hole to 2200'. Run 8 5/8" casing and cement with 1550 cu.ft. 65/65 Class C poz containing 0.25# per sack flocele followed by 396 cu.ft. Class C containing 2% CaCl2. Wait on cement until 500 psi compressive strength is obtained. Nipple up 5000 psi double ram BOP with hydrill. Test casing to 1500 psi. Drill 7 7/8" hole to 10,700'. Either plug and abandon or run 5 1/2" casing and cement with sufficient Class H to cover possible producing zones.

NSL - 2362 Appv. 12-1-86

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APPROVAL VALID FOR 180 DAYS PERMIT EXPIRES 5/12/87 UNLESS DRILLING UNDERWAY

| TIVE 2046. CIVE BLOWOUT PREVENTER PROCRAM, IF ANY. | omplete to t | the best of my knowledge and bellef. | · · · · · · · · · · · · · · · · · · ·           |
|--|--------------|--------------------------------------|---|
| signed Michael R. Buton                            | Tule_        | Senior Drilling Engineer             | Date 11/5/86                                    |
| (This space for State Use)                         |              |                                      |   |
| APPROVED DY Dariel Masie                           | TITLI        | Geologist                            | BATE #/12/86                                    |
| CONDITIONS OF APPROVAL, IF ANYL                    |              | Notify P                             | I.M.O.C.C. in sufficien<br>to witness cementing |
|  |              | time                                 | o willion                                       |

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form C-102 Supersedes C-128 Effective 1-1-65

| er w   | All dis   | ances must be f                 | rom the out        | er boundaries of              | the Section.        |  |   |
|--|---|---------------------------------|--------------------|-------------------------------|---------------------|--|---|
| Operator (M  |   |                                 | Lease              | 1                             | n                   |  | Well No.<br>1   |
| and the second | ting Partners L   |                                 | l C<br>Romo        | hase State                    | ·····               |  |   |
| Unit Letter Sectio   |   | 2 South                         |                    | •<br>27 East                  | County              | Eddy   |   |
| N<br>Actual Footage Location of  |   | .2 50000                        | l                  | 27 1000                       | I                   | 2007   |   |
| 000  | Couth   | line and                        | 1980               |                               | t from the          | West   | line  |
|  | from the SOUCH<br>Producing Formation                   | line and                        | Pool               |                               | t nom the           | Dedi   | line  |
| 3105.4   | Strawn  |                                 | Undes.             | E. Carlsb                     | ad Stra             | 1  | 320 Acres   |
|  | age dedicated to th                                     | a aubiaat w                     | ll by col          | and pencilla                  | r hachtrac          | mackgoonthe  |   |
| 2. If more than on<br>interest and roys  | e lease is dedicate<br>alty).                           | d to the wel                    | l, outline         | each and ide                  | ntif <b>NÖV</b> °   |  | (both as to working   |
| dated by commun  | nitization, unitizatio                                  | n, iorce-pooli                  | ng. etc?           | to the well.                  | have the i<br>ARIES | nterests of all<br>IA, OFFICE  | owners been consoli-  |
| this form if nece<br>No allowable wil<br>forced-pooling, o   | ;' list the owners a<br>ssary.)<br>l be assigned to the | nd tract desc<br>well until all | riptions v         | which have ac                 | ctually bee         | n consolidated.<br>ed (by communi  | (Use reverse side of<br>tization, unitization,<br>roved by the Commis-  |
| sion.  |   |                                 |                    |                               |                     | 1  | ······································  |
|  |   |                                 |                    | 1                             | T                   | CE   | RTIFICATION   |
| SANTA FE ENE   | RGY - 100% WI   |                                 |                    | 1                             |                     |  |   |
| FRANKIE VIOLA  | LAMAN - 1/6 ROY   |                                 |                    | •<br> <br> <br> <br>          |                     | tained herein li   | r that the information con-<br>s true and complete to the<br>wledge and belief.   |
| SANTA FE ENEF<br>ST. OF N.M. (LSE 1  |   |                                 |                    | <br> <br> <br> <br> <br> <br> | ·                   | Position<br>SANTA FEEX<br>Company<br>Date  | K. Barton<br>Vergy Oter. Bot: LP  |
|  | l<br>L  |                                 |                    |                               |                     | 11-7-8   |   |
|  |   | Level and Level                 | NO<br>See No<br>32 | 1                             |                     | shown on this ;<br>notes of actua<br>under my super                                      | fy that the well location<br>plat was plotted from field<br>I surveys made by me or<br>vision, and that the same<br>prrect to the best of my<br>belief. |
| 1980'  | 3 <sup>10</sup> 660                                     | munum                           | PONALD S           |                               |                     | Date Surveyed<br>November<br>Registered Profes<br>and/or Land Surve<br>Registered Profes | isional Engineer  |
|  |   |                                 |                    |                               | LTTTE!              | Conflicate No. J   | OHE W. WEST, 676  |
| 0 330 660 '90 t  | 320 1650 1960 231C 2                                    | 640 2000                        | 1 500              | 1000 8                        | 00 0                | RC RC  | MALD J. EIDSON, 3239  |

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Santa Fe Pacific Exploration Company Managing General Partner

November 7, 1986

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

> Re: Chase State 2 No. 1 Sec. 2-22S-27E Eddy County, New Mexico

Gentlemen:

Santa Fe Energy Operating Partners, L.P. requests administrative approval of an unorthodox location for a  $10,700'\pm$  Strawn test to be drilled 1980' FWL, 990' FSL, Section 2, T-22S, R-27E, Eddy County, New Mexico.

The reasons for this request are geologic. The relevant geologic exhibits are enclosed.

All offset operators have been notified by certified or registered mail of this request for administrative approval of an unorthodox location.

Sincerely,

Billie Hood

Billie Hood Senior Production Clerk

BH/dw

Enclosures

dz-185

| NMEX EDDY * 990FSL 1980FWL SEC SE SW  |
|---|
| SANTA FE ENERGY D DG  |
| OPERATOR WELL CLASS INIT FIN  |
| WELL NO. LEASE NAME CARLSBAD E  |
| OPER ELEV FIELD/POOL/AREA API 30-015-25698-0000   |
| LEASE TYPE NO PERMIT OR WELL LD. NO   |
| 12/17/1986 03/09/1987 ROTARY GAS  |
| SPUD DATE COMP. DATE TYPE TOOL STATUS   |
| DTD 10705 PB 10558 FM/TD WOLFCAMP   |
| DRILLERS T.D. ICG T.D. PLUG BACK TD OLD T.D. FORM T.D.  |
| 3 MI E CARLSBAD, NM   |
| WELL IDENTIFICATION/CHANGES   |
| PROJ FM CHGD FROM STRAWN  |
| CASING/LINER DATA   |
|   |
| CSG 13 3/8 @ 455 W/ 425 SACKS<br>CSG 8 5/8 @ 2100 W/ 1610 SACKS<br>CSG 5 1/2 @10699   |
| TUBING DATA   |
| TBG 2 3/8 AT 9470   |
| INITIAL POTENTIAL   |
|   |
| IPF889MCFD24HRSWOLFCAMPPERF9579-9693  |
| PERF 9579- 9693<br>SITP 3984  |
| @ 9636FT BHT 221F<br>220MCFD TP 3410 BHFP 3469  |
| 290MCFD TP 3022 BHFP 3145   |
| 465MCFD TP 2645 BHFP 2744<br>579MCFD TP 2250 BHFP 2355  |
| BH 3958 FPCAOF 889MCFD<br>GTY 63.7 GOR 10483  |
|   |
|   |
| Copyrighted 1987 Petroleum Information PI-WRS-G   |
| Reproduction Pi-WRS-GI<br>Prohibited BB a company of<br>The Dunk Bradstreet Corporation Pi-WRS-GI   |
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 COMPLETIONS
 SEC
 2 TWP
 22s

 PI#
 30-T-0017
 05/18/87
 30-015-25698-0000
 22S RGE 27E PAGE 2 SANTA FE ENERGY D DG CHASE "2" STATE 1 INITIAL POTENTIAL \_\_\_\_\_ -----GAS GTY .723 P/L CON NONE 1ST THRU 4TH PT TEST IN 60 MINS, CKS NOT RPTD NATURAL DRILLING PROGRESS DETAILS SANTA FE ENERGY 500 W ILLINOIS STE 500 MIDLAND, TX 79701 915-687-3551 LOC/1986/ DRLG 10200 10705 TD, RNG CSG 10705 TD, PB 10558, WOPT TD REACHED 01/21/87 RIG REL 01/22/87 10705 TD, PB 10558 COMP 3/9/87, IPCAOF 889 MCFGPD, GOR 10483, GTY 63.7, GTY (GAS) .723, SIWHP 3984, SIBHP 3958 PROD ZONE - WOLFCAMP 9579-9693 NO CORES OR DSTS RPTD 12/18 01/16 01/22 02/12 05/13

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Page 106 New Mexico

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R. W. Byram & Co., - Mar., 1977

### EAST CARLSBAD-WOLFCAMP GAS POOL Eddy County, New Mexico

Order No. R-5144, Adopting Operating Rules for the East Carlsbad-Wolfcamp Gas Pool, Eddy County, New Mexico, February 1, 1976.

Application of Champlin Petroleum Company for the Adoption of Pool Rules, Eddy County, New Mexico.

> CASE NO. 5600 Order No. R-5144

### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on January 7, 1976, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 14th day of January, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Champlin Petroleum Company, is an owner and operator in the East Carlsbad-Wolfcamp Gas Pool, Eddy County, New Mexico.

(3) That said East Carlsbad-Wolfcamp Gas Pool was created and designated by the Commission by Order No. R-5015 effective June 1, 1975.

(4) That by Commission Order No. R-5113, dated October 28, 1975, Rule 104 of the Commission Rules and Regulations was amended to provide that all gas pools for Wolfcamp gas production in Southeast New Mexico which were created and defined November 1, 1975, or later shall have 320-acre spacing and proration units, inasmuch as it was found that in Southeast New Mexico...''a gas well completed in the Wolfcamp or deeper formations will efficiently and economically drain and develop a 320-acre tract.''

(5) That the applicant in the instant case seeks the promulgation of rules including a provision for 320-acre spacing for the East Carlsbad-Wolfcamp Gas Pool, in Eddy County, New Mexico, inasmuch as that pool was excluded from the provisions of Order No. R-5113, because it was created and defined prior to the cut-off date of November 1, 1975.

(6) That no appearances were made in opposition to the application at the hearing of the instant case and no objection was received to the inclusion of the East Carlsbad-Wolfcamp Gas Pool under the provisions of Rule 104 of the Commission Rules and Regulations for gas pools of the Wolfcamp or older formations.

(7) That one well in the East Carlsbad-Wolfcamp Gas Pool in Eddy County, New Mexico, will efficiently and economically drain and develop 320 acres, and the inclusion of said pool under the 320-acre provisions of Rule 104 for pools of Wolfcamp or older formations will not cause waste nor violate correlative rights, and should be approved.

#### IT IS THEREFORE ORDERED:

(1) That effective February 1, 1976, each well completed or recompleted in the East Carlsbad-Wolfcamp Gas Pool or in the Wolfcamp formation within one mile thereof shall be subject to the provisions of Rule 104 of the Commission Rules and Regulations notwithstanding the fact said pool was created and defined prior to November 1, 1975.

IT IS FURTHER ORDERED:

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(1) That the locations of all wells presently drilling to or completed in the East Carlsbad-Wolfcamp Gas Pool or in the Wolfcamp formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Artesia District Office of the Commission in writing of the name and location of the well by February 15, 1976. (2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, all existing wells in the East Carlsbad-Wolfcamp Gas Pool shall have dedicated thereto 320 acres in accordance with Rule 104 of the Commission Rules and Regulations; or pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have nonstandard units dedicated thereto. Failure to file new Forms C-102 with the Commission dedica-

Failure to file new Forms C-102 with the Commission dedicating 320 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the effective date of this order shall subject the well to cancellation of allowable. (3) That jurisdication of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

### TWIN LAKES-DEVONIAN POOL Chaves County, New Mexico

Order No. R-5142, Adopting Temporary Operating Rules for the Twin Lakes-Devonian Pool, Chaves County, New Mexico, January 6, 1976, as Amended by Order No. R-5142-A, February 15, 1977.

Order No. R-5142-A, February 15, 1977, makes permanent the temporary rules adopted in Order No. R-5142.

Application of Stevens Oil Company for Special Pool Rules, Chaves County, New Mexico.

> CASE NO. 5599 Order No. R-5142

### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on December 17, 1975, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 6th day of January, 1976, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises, FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Stevens Oil Company, seeks the promulgation of special rules and regulations for the Twin Lakes-Devonian Pool, Chaves County, New Mexico, including provisions for 80-acre oil proration units and exemption of said pool from any gas-oil ratio limitation.

(3) That producing the subject pool without any gas-oil ratio limitation may result in the waste of reservoir energy and a violation of correlative rights.

(4) That the establishment of a special gas-oil ratio limitation of 4000 cubic feet of gas for each barrel of oil will afford to the owner of each property in the subject pool the opportunity to produce his just and equitable share of the oil and gas and will not cause waste nor violate correlative rights, provided the flaring or venting of gas in the pool is prohibited.



ENERGY AND MINERALS DEPARTMENT

TONEY ANAYA GOVERNOR

December 1, 1986

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Santa Fe Energy Operating Partners, Inc. 500 W. Illinois Suite 500 Midland, Texas 79701

Attention: Billie Hood

Administrative Order NSL-2302

Gentlemen:

Reference is made to your application for a non-standard location for your Chase State 2 No. 1 well to be located 1980 feet from the West line and 990 feet from the South line of Section 2, Township 22 South, Range 27 East, NMPM, Undesignated East Carlsbad Strawn Pool, Eddy County, New Mexico. The W/2 of said Section 2 shall be dedicated to the well.

By authority granted me under the provisions of Rule 104 F(II), the above-described unorthodox location is hereby approved.

Sincerely,

R. L. STAMETS, DIRECTOR

RLS/DC/dr

cc: Oil Conservation Division - Artesia Oil & Gas Division - State Land Office - Santa Fe (Mr. Floyd Prando)

Rélease Dec 1, 1986 Santa Fe Energy Operating Partners, L.P. Santa Fe Pacific Exploration Company **Managing General Partner** ember 7, 1986 S DIVISION Technical Support Chief. Oil Conservation Division AMTAFE Energy and Minerals Department State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501 Underinated East Contribud Strown 330 Acres ded, 1980 FWL : Re: Chase State 2 No. 1) 990 FSL, Section 2 Sec. 2-22S-27E ( W/2 Section 2 Eddy County, New Mexico Dear Sir: Santa Fe Energy Operating Company, L.P. is requesting administrative approval for an unorthodox location due to geologic reasons. Please find enclosed seven (7) copies of the following: 1. Letter requesting administrative approval of unorthodox location

- 2. Plat showing acreage dedicated
- 3. Geologic exhibits
- 4. Form C-101
- 5. Form C-102
- 6. Waiver letter to offset operators

Six (6) copies of the above have been sent to the District Office in Artesia.

Sincerely,

Sillie Hood

Billie Hood Senior Production Clerk

Patrick Town 915-687-3551

BH/dw

Enclosures

dz-186

| ENERGY AND MINERALS DEPAI   |  | CONCEDUAT  |  | ase  | 904   | 2   |
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| ENERGY AND MINERALS DEPAR   |  |  | ION DIVISION   | n.Al   | Form C-101<br>Revised 10  | -1-78   |
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| FILE  |  |  |  | .  |   | 6 Gas Louco No.   |
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| . Name of Operator  |  |  |  |  | 9. Well No.   |   |
| <u>Santa Fe Energy Op</u>   | perating Partner   | s.L.P.   |  | 1  | 1   |   |
| Address of Operator   |  | · · · · · · · · · · · · · · · · · · ·  |  |  | 10. Field an  | d Pool, or Wildcal  |
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| 3.  | 1  | PROPOSED CASING AN   | D CEMENT PROGRAM   |  |   |   |
| SIZE OF HOLE  | SIZE OF CASING   | WEIGHT PER FOO   | T SETTING DEPTH  | SACKS OF   | CEMENT  | EST. TOP  |
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TITLE\_

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CONDITIONS OF APPROVAL, IF ANY

APPROVED BY

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## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

| e Opera                       | ting Par  | tners L                               | Р  |                                      | Chase                             | State                                  | 2                                  |   |  | 1   |
|-------------------------------|---|---------------------------------------|--|--------------------------------------|-----------------------------------|--|------------------------------------|---|--|---|
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| ·                             |   |                                       | non-standa   | rd unit                              | , eliminat                        | ing suc                                | h interes                          | ts, has been  |  | <u>.,</u>   |
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| <br>980'                      | ¢   | 1066                                  | 111111111  | PONI                                 |                                   |  |                                    | Nove<br>Registered  | mber 3 & 4<br>Professional Engl  | 4, 1986<br>neer   |
|                               | Section<br>feet t<br>feet t<br>ev. f<br>the acre<br>than one<br>than one<br>than one<br>y commun<br>or is "no<br>n if neces<br>wable will<br>pooling, or<br>TA FE ENE<br>IE VIOLA | Section 2                             | Section 2 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 2 22 South<br>                       | Section 2 Township 2 22 South<br> | Section       Township       Range     | Section       Township       Range | Section       2       20011       27 East       County         Section of Wells       22 South       27 East       County         rest from the       South       Ine and       1980       section the         ext.       Producting Formation       Pool       Undes. E. Carlsbad Stri         the acreage dedicated to the subject well by colored pencil or hachure       than one lease is dedicated to the well, outline each and identify the         than one lease of different ownership is dedicated to the well, have the y communitization, unitization, force-pooling, etc?       No       If answer is "yes!" type of consolidation         or in cressary.)       wable will be assigned to the well until all interests have been consolidate sooling, or otherwise) or until a non-standard unit, eliminating such interes         AFE ENERGY - 100% WI       Image: Poil Poil Poil Poil Poil Poil Poil Poil | Section       Township       22 South       27 East       County       Eddy         .coction of Weilt       Ime and       1980       Ime and       1980       Ime and       West         ever the time the South       Ime and       1980       Ime and       1980       Ime and       West         ever the time the South       Ime and       1980       Ime and       1980       Ime and       West         ever the time the South       Strawn       Undes. E. Carlsbad Strawn       Image: Strawn       Image: Strawn         the acreage dedicated to the subject well by colored pencil or hachure marks on the the ane lease is dedicated to the well, outline each and identify the ownership it is and royalty).       Image: Strawn         than one lease of different ownership is dedicated to the well, have the interests of y communitization, unitization, force-pooling, etc?       Image: Strawn         in facessary       Image: Strawn       Image: Strawn       Image: Strawn | Section       2       Township       27       East       County         Location of Will       South       Une and       1980       rest from the       West       Ime         Location of Will       Strawn       Pool       Destrored Across       320         the acreage dedicated to the subject well by colored pencil or bachure marks on the plat below.       the acreage dedicated to the well, outline each and identify the ownership thereof (both as and royalty).         than one lease of different ownership is dedicated to the well, have the interests of all owners be y communitization, unitization, force-pooling, etc?       No       If answer is "yes," type of consolidation       Communitization         in in eccessary |

All distances must be from the outer boundaries of the Section.

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Santa Fe Pacific Exploration Company Managing General Partner

November 7, 1986

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

> Re: Chase State 2 No. 1 Sec. 2-22S-27E Eddy County, New Mexico

Gentlemen:

Santa Fe Energy Operating Partners, L.P. requests administrative approval of an unorthodox location for a 10,700'± Strawn test to be drilled 1980' FWL, 990' FSL, Section 2, T-22S, R-27E, Eddy County, New Mexico.

The reasons for this request are geologic. The relevant geologic exhibits are enclosed.

All offset operators have been notified by certified or registered mail of this request for administrative approval of an unorthodox location.

Sincerely,

Billie Hood

Billie Hood Senior Production Clerk

BH/dw

Enclosures

dz-185



Santa Fe Pacific Exploration Company Managing General Partner

November 7, 1986

Mr. Richard Stamets Director, Oil Conservation Division Energy and Minerals Department State of New Mexico Box 2088 Santa Fe, NM 87501

RE: Geological Exhibits SFEOP,LP #1 Chase State "2" Eddy County, New Mexico

Dear Mr. Stamets:

Santa Fe Energy Operating Partners, L.P., Exploration Department, is proposing an unorthodox location 990' FSL, 1980' FWL, Section 2, T22S, R27E, Eddy County, New Mexico.

The proposed well will test the primary objective Second Strawn Carbonate and secondary objective Wolfcamp Carbonate. During "second Strawn" time, the prospect area was located on a marine shelf with the basinward shelfedge located approximately 5 miles southeast of the proposed location. The environment was characterized by vigorous marine biological activity with phylloid algae growing to form reef mounds. The constant pounding of waves against the mounds eroded skeletal fragments which were carried down the reef-front where they collected to form talus slope deposits. Secondary solution of these talus deposits has provided the necessary porosity and permeability to form what is now the reservoir facies of the Strawn. The second Strawn reservoir encountered in the Western #1 Bass located in Section 11, T22S, R27E is interpreted to extend north-westward through the proposed location and terminate against the "tight" reef facies in Section 3. (See Isopach Map)

The proposed location is located on a positive structural feature (see structure map) and should drain that part of the reservoir which expands the W2 of Section 2.

The location Santa Fe Energy Operating Partners, L.P. has proposed is the most logical one based upon our knowledge of the Strawn formation in the prospect area.

Yours truly,

SANTA FE ENERGY OPERATING PARTNERS, L.P. By Santa Fe Pacific Exploration Company as Managing General Partner

 $\mathcal{L}$ . 1 W. A. Schaefer, Vr.

Exploration Manager

cys751



Santa Fe Pacific Exploration Company Managing General Partner

CERTIFIED MAIL Return Receipt Requested

November 5, 1986

Western Oil Producers, Inc. P.O. Box 2055 Roswell, New Mexico 88201

ATTN: Land Department

Re: Chase State #2-1 990' FSL, 1980' FWL, Sec. 2, T-22-S, R-27-E, Eddy County, New Mexico Chase Prospect

### Gentlemen:

This is to inform you of Santa Fe's request to the New Mexico Oil Conservation Division (OCD) for Administrative Approval of its unorthodox location of 990' FSL and 1980' FWL in Section 2, T-22-S, R-27-E, Eddy County, New Mexico for a 10,700' Strawn test well. The West Half (W/2) of said section will be the proration unit for this well.

Current plans are to set these matters for hearing before the OCD on December 3, 1986, however, should Administrative Approval be granted, the hearing will be cancelled.

You may file any objections or requests for hearing with the OCD at P.O. Box 2088, Santa Fe, New Mexico, 87501.

-It is requested that you respond to this waiver as soon as possible.

### Sincerely yours,

SANTA FE ENERGY OPERATING PARTNERS, L.P. By Santa Fe Pacific Exploration Company as Managing General Partner,

By

Senior Landman Patrick J wer,

PJT/efw

Page 2 of that certain request for permission letter to: Western Oil Producers, Inc. Dated November 5, 1986

BY SIGNATURE HERETO, WE HAVE NO OBJECTION TO THE GRANTING OF A PERMIT TO DRILL AT THE ABOVE SPECIFIED LOCATION, FOR THE ABOVE SPECIFIED FORMATION AND HEREBY WAIVE OBJECTION AND NOTICE OF HEARING ON THIS APPLICATION.

| BY     | Date |
|--------|------|
| Titla. |      |

Title: Company:

## EFW2234-4



Santa Fe Pacific Exploration Company Managing General Partner

<u>CERTIFIED MAIL</u> Return Receipt Requested

November 5, 1986

Union Oil of California 500 N. Marienfeld P.O. Box 671 Midland, Texas 79701

ATTN: Wayne Strong

Re: Chase State #2-1 990' FSL, 1980' FWL, Sec. 2, T-22-S, R-27-E, Eddy County, New Mexico Chase Prospect

### Gentlemen:

This is to inform you of Santa Fe's request to the New Mexico Oil Conservation Division (OCD) for Administrative Approval of its unorthodox location of 990' FSL and 1980' FWL in Section 2, T-22-S, R-27-E, Eddy County, New Mexico for a 10,700' Strawn test well. The West Half (W/2) of said section will be the proration unit for this well.

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Sincerely yours,

It is requested that you respond to this waiver as soon as possible.

SANTA FE ENERGY OPERATING PARTNERS, L.P. By Santa Fe Pacific Exploration Company as Managing General Partner

Tower, Senior Landman

PJT/efw

Page 2 of that certain request for permission letter to: Union Oil of California Dated November 5, 1986

BY SIGNATURE HERETO, WE HAVE NO OBJECTION TO THE GRANTING OF A PERMIT TO DRILL AT THE ABOVE SPECIFIED LOCATION, FOR THE ABOVE SPECIFIED FORMATION AND HEREBY WAIVE OBJECTION AND NOTICE OF HEARING ON THIS APPLICATION.

BY

Date

Title: Company:

### EFW2234-3

Santa Fe Pacific Exploration Company Managing General Partner

CERTIFIED MAIL Return Receipt Requested

November 5, 1986

Champlin Petroleum Company 4 Allen Center, Suite 1500 1400 Smith Street Houston, Texas 77002

ATTN: Stephen Dangos

Re: Chase State #2-1
990' FSL, 1980' FWL,
Sec. 2, T-22-S, R-27-E,
Eddy County, New Mexico
Chase Prospect

Gentlemen:

This is to inform you of Santa Fe's request to the New Mexico Oil Conservation Division (OCD) for Administrative Approval of its unorthodox location of 990' FSL and 1980' FWL in Section 2, T-22-S, R-27-E, Eddy County, New Mexico for a 10,700' Strawn test well. The West Half (W/2) of said section will be the proration unit for this well.

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It is requested that you respond to this waiver as soon as possible.

Sincerely yours,

SANTA FE ENERGY OPERATING PARTNERS, L.P. By Santa Fe Pacific Exploration Company as Managing General Partner

Βv Tower, Senior Landman Patrick J.

PJT/efw

Page 2 of that certain request for permission letter to: Champlin Petroleum Company Dated November 5, 1986

BY SIGNATURE HERETO, WE HAVE NO OBJECTION TO THE GRANTING OF A PERMIT TO DRILL AT THE ABOVE SPECIFIED LOCATION, FOR THE ABOVE SPECIFIED FORMATION AND HEREBY WAIVE OBJECTION AND NOTICE OF HEARING ON THIS APPLICATION.

| Date |
|------|
|      |

Title: Company:

BY

EFW2234-2

Santa Fe Pacific Exploration Company Managing General Partner

CERTIFIED MAIL Return Receipt Requested

November 5, 1986

TXO Production Company 900 Wilco Bldg. Midland, Texas 79701

ATTN: David Hundley District Landman

Re: Chase State #2-1
990' FSL, 1980' FWL,
Sec. 2, T-22-S, R-27-E,
Eddy County, New Mexico
Chase Prospect

### Gentlemen:

This is to inform you of Santa Fe's request to the New Mexico Oil Conservation Division (OCD) for Administrative Approval of its unorthodox location of 990' FSL and 1980' FWL in Section 2, T-22-S, R-27-E, Eddy County, New Mexico for a 10,700' Strawn test well. The West Half (W/2) of said section will be the proration unit for this well.

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You may file any objections or requests for hearing with the OCD at P.O. Box 2088, Santa Fe, New Mexico, 87501.

It is requested that you respond to this waiver as soon as possible.

Sincerely yours,

States in Production Action

SANTA FE ENERGY OPERATING PARTNERS, L.P. By Santa Fe Pacific Exploration Company as Managing General Partner

By

Xoyler, atrick J. Senior Landman

PJT/efw

Page 2 of that certain request for permission letter to: TXO Production Company Dated November 5, 1986

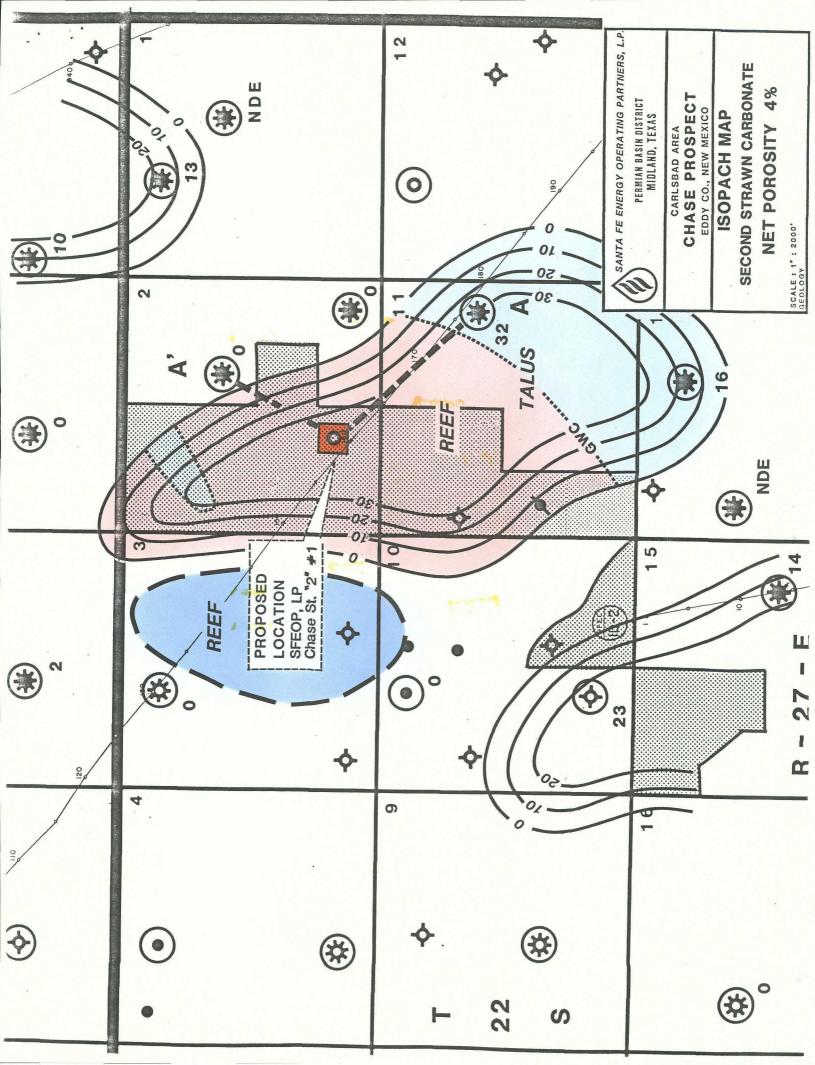
BY SIGNATURE HERETO, WE HAVE NO OBJECTION TO THE GRANTING OF A PERMIT TO DRILL AT THE ABOVE SPECIFIED LOCATION, FOR THE ABOVE SPECIFIED FORMATION AND HEREBY WAIVE OBJECTION AND NOTICE OF HEARING ON THIS APPLICATION.

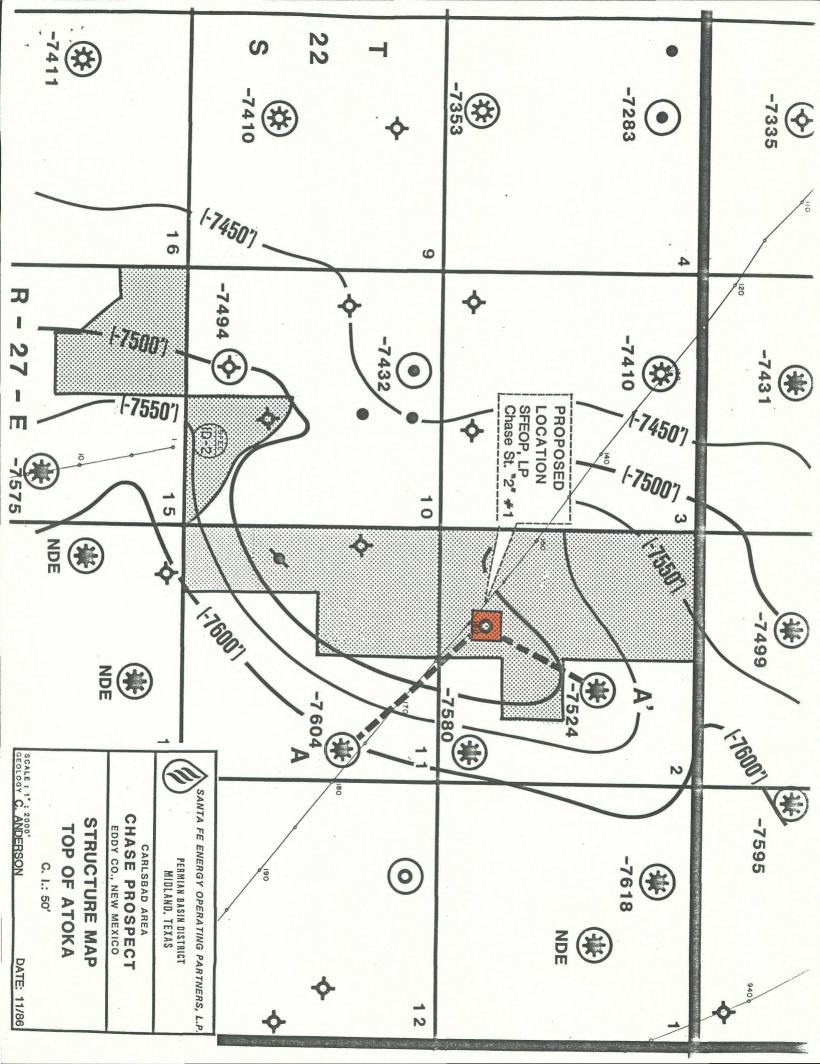
BY\_\_\_\_\_ Date\_\_\_\_\_

Title: Company:

EFW2234-1

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| CEK Pet   | Horoid<br>U.G. S. C. L. C.  | Forn Brothers<br>antoFe' SantaFe<br>ner."2  Kriti Exp | 425700<br>KGS US H<br>Ener, V3<br>Monsorta Ja | 626 SWPublic<br>G26 SWPublic<br>CG5 US Service Co<br>SP<br>Spectrum r | 64587 91<br>626 - Lovy loca  | Old Indian 17 P80<br>Draw P80<br>T03450 Morathe<br>SS 1 Amoco  |
| G. Walterscheid W.  | 2W Farms etol 910 84  | xpl. 1/2 8 14   | 87 3.481 4                                    |   | Hevens<br>3-4-90<br>W.G. KGS 1                                     | 0415461  |





Santa Fe Pacific Exploration Company Managing General Partner

VIA PUROLATOR

November 24, 1986

State of New Mexico Oil Conservation Division 310 Santa Fe Trail Santa Fe, New Mexico 87501

ATTN: David Catanach Examiner

> Re: Chase State #2-1 990' FSL, 1980' FWL Section 2, T-22-S, R-27-E Eddy County, New Mexico

Gentlemen:

With reference to Santa Fe Energy Operating Partners, L.P. request for Administrative Approval of the referenced unorthodox location, enclosed please find a copy of TXO Production Company's waiver letter pertaining to same. Also, please be advised that Western Oil Producers Inc. has agreed to rescind their objection to this unorthodox location. Western will forward a copy of their waiver letter in the near future.

As discussed in a recent meeting, Santa Fe Energy would like to spud this test as soon as possible. In this regard, Santa Fe Energy plans to dismiss Case #9047 to be held at the December 3, 1986 docket should the Oil Conservation Division grant the Administrative Approval to this location.

Your earliest attention to this matter is most appreciated. In the meantime, should you have any questions regarding this matter, feel free to call.

Sincerely yours,

SANTA FE ENERGY OPERATING PARTNERS, L.P. By Santa Fe Pacific Exploration Company as Managing General Partner

10WPA Tòwer, Senior Landman

PJT/efw

cc: Western Oil Producers, Inc. 1200 South Richardson Roswell, New Mexico 88201 ATTN: Kenneth D. Reynolds Vice-President

EFW2309



Santa Fe Pacific Exploration Company Managing General Partner

CERTIFIED MAIL Return Receipt Requested

TXO Production Company 900 Wilco Bldg. Midland, Texas 79701

ATTN: David Hundley District Landman November 5, 1986



Re: Chase State #2-1
990' FSL, 1980' FWL,
Sec. 2, T-22-S, R-27-E,
Eddy County, New Mexico
Chase Prospect

Gentlemen:

This is to inform you of Santa Fe's request to the New Mexico Oil Conservation Division (OCD) for Administrative Approval of its unorthodox location of 990' FSL and 1980' FWL in Section 2, T-22-S, R-27-E, Eddy County, New Mexico for a 10,700' Strawn test well. The West Half (W/2) of said section will be the proration unit for this well.

Current plans are to set these matters for hearing before the OCD on December 3, 1986, however, should Administrative Approval be granted, the hearing will be cancelled.

You may file any objections or requests for hearing with the OCD at P.O. Box 2088, Santa Fe, New Mexico, 87501.

It is requested that you respond to this waiver as soon as possible.

Sincerely yours,

SANTA FE ENERGY OPERATING PARTNERS, L.P. By Santa Fe Pacific Exploration Company as Managing General Partner

By Patrick J. Tower, Senior Landman

PJT/efw

Page 2 of that certain request for permission letter to: TXO Production Company Dated November 5, 1986

BY SIGNATURE HERETO, WE HAVE NO OBJECTION TO THE GRANTING OF A PERMIT TO DRILL AT THE ABOVE SPECIFIED LOCATION, FOR THE ABOVE SPECIFIED FORMATION AND HEREBY WAIVE OBJECTION AND NOTICE OF HEARING ON THIS APPLICATION.

BY Frank/Kief/fer -In-Fact T*i*tle Actorne√ TXO Production Corp. Company:

5

Date November 13, 1986

### RETURN THIS COPY TO SANTA FR ENERGY OPERATING PARTNERS, L.P.

EFW2234-1

Santa Fe Pacific Exploration Company Managing General Partner

VIA PUROLATOR

November 5, 1986

Western Oil Producers, Inc. 1200 South Richardson Roswell, New Mexico 88201

ATTN: Land Department

Re: Chase State #2-1
990' FSL, 1980' FWL,
Sec. 2, T-22-S, R-27-E,
Eddy County, New Mexico
Chase Prospect

Gentlemen:

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It is requested that you respond to this waiver as soon as possible.

Sincerely yours,

SANTA FE ENERGY OPERATING PARTNERS, L.P. By Santa Fe Pacific Exploration Company as Maraging General Partner

anch Βv

Patrick Yower, Senior Landman

PJT/efw

Page 2 of that certain request for permission letter to: Western Oil Producers, Inc. Dated November 5, 1986

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11-25-80 Date BY Title: Company: Westin orl Producen de.