AMEND SWD



Texaco Exploration and Production Inc.

500 North Loraine Midland TX 79701 P O Box 3109 Midland TX 79702

10 |20 w 29339394

September 19, 2000

NMOCD 2040 South Pacheco Santa Fe, New Mexico 87505

Attn : Mr. Mark Ashley

TVATION INVERSE

RE : Amendment to Administrative Order SWD-626 Remuda Basin 19 Federal #2 **(30 - 015 - 28901)** 510' FNL & 1780' FEL, Unit Letter B, Section 19, T-23-S, R-30-E Eddy County, New Mexico

Dear Mr. Ashley.

Texaco Exploration & Production, Inc. respectfully requests administrative approval for the attached amendment to Administrative Order SWD-626 for the purpose of disposing of produced fluids into additional non-commercial Bell Canyon and Cherry Canyon intervals. The current disposal formation is the Bell Canyon at a depth from 3402 feet to 3912 feet below the surface of the earth. The requested amended disposal formation is the Bell Canyon and Cherry Canyon at a depth from 3402 feet to 4634 feet below the surface of the earth. This work will allow Texaco to eliminate current water disposal costs associated with the subject lease. Addition of the subject injection intervals to this SWD well will lower the lease's economic limit and allow Texaco to recover additional oil and gas reserves that would otherwise be left in place.

In order to facilitate the approval of the amendment, Mr. Catanach recommended that Texaco notify offset operators of its requested amendment, submit public notice of its requested amendment, provide a letter or procedure describing the proposed activity, and provide a geologic description certifying that no commercial hydrocarbon accumulations can be found in the proposed injection intervals. Please find these items attached.

This well is located at Unit Letter B : Section 19, T-23-S, R-30-E. Texaco respectfully requests that this application approved administratively at the earliest possible convenience so that operations can be advanced in a prudent manner. If you have any questions concerning this amendment, please contact me at (915) 688-4862.

Sincerely,

Jash

Jason Wacker Production Engineer



500 North Loraine Midland TX 79701 P O Box 3109 Midland TX 79702

CERTIFIED MAIL RETURN RECEIPT REQUESTED

September 26, 2000

Amendment to Administrative Order SWD-626 Remuda Basin 19 Federal #2 510' FNL & 1780' FEL, Unit Letter B, Section 19, T-23-S, R-30-E Eddy County, New Mexico

Strata Production Company Attn: Land Department P. O. Box 1030 Roswell, NM 88201

Gentlemen:

Texaco Exploration and Production Inc. plans to request administrative approval for an amendment to Administrative Order SWD-626 for the purpose of disposing of produced fluids into additional non-commercial Bell Canyon and Cherry Canyon intervals. The current disposal formation is the Bell Canyon at a depth from 3402 feet to 3912 feet below the surface of the earth. The amended disposal formation will be the Bell Canyon and Cherry Canyon at a depth from 3402 feet to 4634 feet below the surface of the earth. Expected maximum injection rate is 2000 barrels of water per day and expected maximum surface injection pressure is 925 pounds per square inch. Injection will be through plastic lined tubing, below a packer at approximately 3350 feet. The system will be closed. This work is part of an ongoing development project.

Attached is a copy of our letter, requesting this amendment to Administrative Order SWD-626.

You are receiving notification of Texaco's amendment to Administrative Order SWD-626 as an offset operator within one-half mile of the subject well. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this notice. If you have any questions concerning this amendment, please contact the undersigned at (915) 688-4862.

Sincerely,

ason Wacker men

Jason Wacker Production Engineer



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September 19, 2000

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Bass Enterprises Production Company Attn: Mr. J. Wayne Bailey 201 Main St. Fort Worth, TX 76102-3131

Gentlemen:

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Jason Wacker Production Engineer



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September 19, 2000

Amendment to Administrative Order SWD-626 Remuda Basin 19 Federal #2 510' FNL & 1780' FEL, Unit Letter B, Section 19, T-23-S, R-30-E Eddy County, New Mexico

Yates Petroleum Corporation Attn: Mr. Robert Bullock 105 S. 4th Street Artesia, NM 88210

Gentlemen:

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Jason Wacker Production Engineer



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Devon Energy Production Company Attn: Mr. Ken Wilpitz 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102-8260

Gentlemen:

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Amendment to Administrative Order SWD-626 Remuda Basin 19 Federal #2 510' FNL & 1780' FEL, Unit Letter B, Section 19, T-23-S, R-30-E Eddy County, New Mexico

Bargo Petroleum Corporation Attn: Land Department 700 Louisiana, Suite 3700 Houston, TX 77002

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Sincerely,

Jason Wacker frag

Jason Wacker Production Engineer

Offset Operators Remuda Basin "19" Federal #2 SWD well Section 19, T23S-R30E, Eddy County, NM

Yates Petroleum Corporation Attn: Mr. Robert Bullock 105 S. 4th Street Artesia, NM 88210

Bargo Petroleum Corporation Attn: Land Department 700 Louisiana, Suite 3700 Houston, TX 77002

Devon Energy Production Company Attn: Mr. Ken Wilpitz 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102-8260

Bass Enterprises Production Company Attn: Mr. J. Wayne Bailey 201 Main St. Fort Worth, TX 76102-3131

Nash Unit – S/2 of Section 18 Strata Production Company P. O. Box 1030 Roswell, NM 88201

Affidavit of Publication

State of New Mexico, County of Eddy, ss.

Amy McKay

being first duly sworn, on oath says:

That ______ is _____ Business Manager

of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

| September 21 | 2000 |
|--------------|------|
| | 2000 |
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That the cost of publication is 48.41and that payment thereof has been made and will be assessed as court costs?

Subscribed and sworn to before me this

day of Appendix ac

My commission expires

- <u>-</u> _

5/25/03 Notary Public

September 21, 2000

Notice is hereby given of the application of Texaco Exploration & Production, Inc., (Attention: Herbert Jason Wacker, Carlsbad FMT Production Engineer, P.O. Box 3109, Midland, Texas, 79702, Telephone (915) 688-4100), to the New Mexico Oil Conservation Commission, Energy and Minerals Department, for approval of the following amendment to Administrative Order SWD-626.

Texaco E&P, Inc. plans to add several injection intervals to the salt water disposal well established under Administrative Order SWD-626:

Lease/Unit Name: Remuda Basin 19 Federal

Well Numbers and Location(s): #2 - Unit Letter B, 510' FNL & 1580' FEL, Section 19, T-23-S, R-30-E, Eddy County, New Mexico.

The current disposal formation is the Bell Canyon at a depth from 3402 feet to 3912 feet below the surface of the earth. The amended disposal formation will be the Bell Canyon and Cherry Canyon at a depth from 3402 feet to 4634 feet below the surface of the earth. Expected maximum injection rate is 2000 barrels of water per day and expected maximum surface inject i on pressure is 925 pounds

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Nº 20902

per square inch. Injection will be through plastic lined tubing, below a packer at approximately 3350 feet. The system will be closed. This work is part of an ongoing development project. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication.

9/15/00

Remuda Basin 19 Federal #2 510' FNL & 1780' FEL, B-19-23S-30E Eddy County, New Mexico

Add Bell Canyon and Cherry Canyon Injection Intervals

Well Data

| Tubing: | 2-7/8" | Casing: | 17# & 15.5#, | 5-1/2" @ 7650 | , | |
|---------|--------|---------|--------------|---------------|----------|----------|
| TD: | 7650' | PBTD: | 3975' | Elevation: | 3078' GR | 11.6' KB |

Injection Perforations: Bell Canyon 3402' - 3520' & 3730' - 3912'

CIBP at 4010' with 35' of cement on top

CIBP at 6525' with 35' of cement on top

Plugged Back Perforations: Brushy Canyon 6558' – 6568', 6580' – 6590', & 7056' – 7098'

Procedure

- 1. Rig up pulling unit. ND wellhead. NU BOP. Unset injection packer. Visually inspect injection tubing out of hole.
- 2. TIH with bit and drill collars on 2-7/8" workstring. Rig up reverse unit. Clean out CIBP at 4010' with 35' of cement on top. Push CIBP to 4700'. TOH with bit and collars.
 - Rig up Schlumberger. Run GR/CBL log from 4675' to 3200'. Check cement bond
- around DV tool at 4026'. Omit affected perforations if no cement is found behind pipe.
 Perforate the Cherry Canyon intervals 4609' 4634', 4579' 4588', 4555' 4575', 4255' 4280', & 4165' 4192' with 4" HEGS perforating guns, 2 spf. Perforate the Bell Canyon intervals 4048' 4095' & 4012' 4035' with 4" HEGS perforating guns, 2 spf. Rig down Schlumberger.
- 4. TIH with 5-1/2" X 2-7/8", 15.5# 17# full bore treating packer on 2-7/8" workstring. Set packer at +/- 4500'.
- Acidize Cherry Canyon perforations 4555' 4575', 4579' 4588', & 4609' 4634' with 2,700 gal 15% HCl with ball sealers as diverter. Average injection rate should be 4 to 6 BPM. Flush acid to bottom perforation with 2% KCl water. TOH with workstring and treating packer.
- 6. TIH with 5-1/2" X 2-7/8", 15.5# 17# full bore treating packer and RBP on 2-7/8" workstring. Set RBP at +/- 4350'. Set packer at +/- 4130'.
- 7. Acidize Cherry Canyon perforations 4165' 4192' & 4255' 4280' with 2,700 gal 15% HCl with rock salt as diverter. Average injection rate should be 3 to 4 BPM. Flush acid to bottom perforation with 2% KCl water. Unset treating packer and RBP.

- 8. Pull up with 5-1/2" X 2-7/8", 15.5# 17# full bore treating packer and RBP on 2-7/8" workstring. Set RBP at 4130'. Set packer at +/- 3960'.
- Acidize Bell Canyon perforations 4012' 4035' & 4048' 4095' with 3,600 gal 15% HCl with rock salt as diverter. Average injection rate should be 3 to 4 BPM. Flush acid to bottom perforation with 2% KCl water. TOH with workstring, treating packer, and RBP.
- 10. TIH with injection packer and plastic lined tubing. Set packer. ND BOP. NU wellhead.
- 11. Return well to injection. Maximum injection rate is 2000 BWIPD at a maximum pressure of 925 psig at surface. Average injection rate is 1200 BWIPD at an average pressure of 900 psig at surface. The system will be closed. RD pulling unit. Monitor surface injection pressure and rate.

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VIII. The amended disposal interval will be the Bell Canyon and Cherry Canyon intervals of the Delaware formation at a depth from 3402 feet to 4634 feet below the surface of the earth.

The amended disposal interval has similar geologic characteristics to the previous disposal interval.

- XII. We have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Jason Wacker

Title: Production Engineer

Signature: _____

Date: 10/3/00

COMPLETE THIS SECTION ON DELIVERY

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Postage & Fees Paid USPS Permit No. G-10 Sender: Please print your name, address, and ZIP+4 in this box lexac-Attn: Jason Wacker P.O. Box 3109 Midland, Tr 79702 Man Halankan Hilana kalan Kara Hilan kata Baraha an Alamaka k UNITED STATES POSTAL SERVICE SINCE 1975 797 097 First-Class Mail Postage & Fees Paid USPS Permit No. G-10 Sender: Please print your name, address, and ZIP+4 in this box Texas Attn: Jason Wacker P.O. Box 3109 Midland, Tr 79702 UNITED STATES POSTAL SERVICE First-Class Mail NCE 1975 797 09/23/00 02: Postage & Fees Paid USPS Permit No. G-10 Sender: Please print your name, address, and ZIP+4 in this box Teraco Attn: Jason Wacker P.O. Box 3109 Midland, Tr 79702

First-Class Mail

First-Class Mail Postage & Fees Paid USPS Permit No. G-10 First-Class Mail Postage & Fees Paid USPS Permit No. G-10 \bullet Sender: Please print your name, address, and ZIP+4 in this box \bullet Sender: Please print your name, address, and ZIP+4 in this box • Ասմիսիսմետենունեւնունեսենունենեն Atin: Jason Wacker Texaco E & P Inc. Attn: Jason Wacker P. O. Box 3109 Midland, Texas 79702 Midlond, TK 79722 P.O. Bex 3109 UNITED STATES POSTAL SERVICE 1: 375 797 09/28/00 04:18 UNITED STATES POSTAL. SERVICE Teraco

| SENDER: COMPLETE THIS SECTION | COMPLETE THIS SECTION ON DELIVERY |
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| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. | Pageoloved by (page Pr |
| Article Addressed to: Bargo Petroleum Corporation Attn: Land Department 700 Louisiana, Suite 3700 Houston, Texas 77002 | If YES, enter delivery address below: |
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| Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. | lõ l |
| Article Addressed to: Strata Production Company Attn: Land Department P. 0. Box 1030 Roswell, New Mexico 88201 | D. Is delivery address different from item 1? └┘ Yes If YES, enter delivery address below: └┘ No |
| ALL | 3. Service Type ☐ Certified Mail □ Express Mail ☐ Registered ℃ Return Receipt for Merchandise ☐ Insured Mail □ C.O.D. 4. Jestricted Delivery? (Extra Fee) □ Yes |
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