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PEAK

CONSULTING SERVICES

ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS



CASE FILE

PCS

September 24, 1991

Mr. David Catanach Oil Conservation Division P.O. Box 2088 Santa Fe. New Mexico 87504-2088

Re: Texaco Exploration and Production Inc.
Saunders Permo Upper Penn Pilot Flood
Injection Application
N.M. State 'AN' and 'AT' Leases
Sec. 15, 22 - T145 - R33E
Lea County, New Mexico

Dear David:

P.O. BOX 636

HOBBS, NEW MEXICO 88240

OFFICE (505) 392-1915

Please find enclosed two copies of Texaco Producing Inc. application for injection. We propose to inject fresh water in the Permo Upper Penn section including the Bough A, B, and C intervals in the following 4 wells:

- 1) New Mexico 'AT' State well No. 4 1980' FSL and 660' FEL sec. 15 - T14S - R33E Injection interval 9521 - 9974
- 2) New Mexico 'AT' State well No. 10 1650' FSL and 2305' FWL sec. 15 T14S R33E Injection interval 9762 9935
- 3) New Mexico 'AN' State well No. 9 660' FNL and 1980' FWL sec. 22 - T14S - R33E Injection interval 9765 - 9885

4) New Mexico 'AN' State well No. 7 660' FNL and 660' FEL sec. 22 - T14S - R33E Injection interval 9757 - 9936

The make up water will come from four fresh water wells to be drilled by Texaco offsetting the above listed leases. The application to drill these wells are being submitted to the State Engineers Office.

If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and cooperation.

Sincerely,

Michael L. Pierce

Peak Consulting Services

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191 00 7 AMCQNSULTING SERVICES

P.O. BOX 636 HOBBS, NEW MEXICO 88240 OFFICE (505) 392-1915 ENVIRONMENTAL,
GEOLOGICAL & REGULATORY
SPECIALISTS



0128 -10401

PCS

October 4, 1991

Mr. David Catanach Oil Conservation Division P.O. Box 2088 Santa Fe. New Mexico 87504-2088

Re: Proof of Publication
Texaco Exploration and Production Inc.
Saunders Permo Upper Penn Pilot
Injection Program

Dear David:

Please find enclosed the proof of publication for the above captioned project. I have not received any notice of objection to this applications as of this date.

I have also included two copies of a cross-section that needs to be included with the application.

Mr. William Carr will be representing Texaco for the hearing. If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and cooperation.

Sincerely

Michael L. Pierce

Peak Consulting Services

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

| I | Kathi | Bearden |
|---|-------|---------|
|---|-------|---------|

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

| of | · <u> </u> |
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| Une | weeks. |
| Beginning with the is | |
| Sept. 27 | |
| and ending with the is | ssue dated |
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| General Manage | er |
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| me this | day of |
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| Paropon | N.C.M |
| Notary Public. | |
| My Commission expir | es |
| Aug. 5 | , 19 95 |

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

(Sea!)

LEGAL NOTICE
September 27, 1991
ADVERTISEMENT
TEXACO EXPLORATION and PRODUCTION
INC., whose address is 205
E. Bender Bivd. HOBBS,
NEW MEXICO 88240,
proposes to convert the following wells to injection for
the purpose of enhancing
the production of oil and
gas from the following
leases.

The wells are the New Mexico 'AT' State No. 4 and 10, located at 660' FSL and 1980' FWL, and 1650' FSL and 2305' FWL respectively in section 15, and the New Mexico 'AN' State No. 7 and 9, located at 660' FNL and 1980' FWL respectively in section 22 - T145 - R33E. Ali wells being located in Lea County New Mexico. The injection interval is known as the Saunders Permo Upper Penn at a depth of approximately 9521'-9974'. The injection rate will be 2000 bbls/day, with pressure not to exceed limits as set forth by the Oil Conservation Division.

No.

file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2008, Santa Fe, New Mexico 87504-2088, within 15 days.

Inquiries regarding this application should be directed to M. Pierce, P.O. Box 636, Hobbs, New Mexico 88240, (505) 392-1915.

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

| I <u>Kathi Bearden</u> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| |
| of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period |
| of |
| One weeks. Beginning with the issue dated |
| $\frac{\texttt{Sept. 27}}{\texttt{and ending with the issue dated}}, 19 - 91$ |
| Sept. 27 , 19 91 |
| Sept. 27 , 19 91 Some Manager |
| Géneral Manager Sworn and subscribed to before |
| me this day of |
| $\frac{\bigcirc r + }{\bigcirc r}$, 19 $\frac{\bigcirc r}{\bigcirc r}$ |
| Philipponist M. Notary Public. |
| My Commission expires |

No.

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

Aug. (Sea!) _, 19<u>95</u>

LEGAL NOTICE September 27, 1991 ADVERTISEMENT TEXACO EXPLORA-TION and PRODUCTION INC., whose address is 205 E. Bender Blvd. HOBBS, NEW MEXICO 88240, proposes to convert the following wells to injection for the purpose of enhancing the production of oil and gas from the following leases.

The wells are the New Mexico 'AT' State No. 4 and 10, located at 660' FSL and 1980' FWL, and 1650' FSL and 2305' FWL respectively in section 15, and the New Mexico 'AN' State No. 7 and 9, located at 660' FNL and 660' FEL, and 660' FNL and 1980' FWL respectively in section 22 - T14S - R33E. All wells being located in Lea County New Mexico. The injection interval is known as the Saunders Permo Upper Penn at a depth of approximately 9521'-9974'. The injection rate will be 2000 bbls/day, with pressure not to exceed limits as set forth by the Oil Conservation Division.

interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088,

within 15 days.

Inquiries regarding this application should be directed to M. Pierce, P.O. Box 636, Hobbs, New Mex-ico 88240, (505) 392-1915.

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| · | NEW MEXICO | OIL CONSERVATION | N COMMISSION | |
| | | EXAMINER HEARING | | |
| | | SANTA FE, | , NEW MEXICO | |
| Hearing Date | | OCTOBE | CR 17, 1991 | Time: 8:15 A.M. |
| NAME | | REPRESENTI | NG | LOCATION |
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CAMPBELL, CARR, BERGE & SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY

ANNIE-LAURIE COOGAN PATRICIA A. MATTHEWS MICHAEL H. FELDEWERT

JACK M. CAMPBELL
OF COUNSEL

JEFFERSON PLACE
SUITE I - 110 NORTH GUADALUPE
POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

September 27, 1991

HAND-DELIVERED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

RECEIVED

SEP 27 1991

OIL CONSERVATION DIVISION

Re: Oil Conservation Division Case No. 10401:

In the Matter of the Texaco Exploration and Production Inc. for a Secondary

Recovery Project, Lea County, New Mexico

Dear Mr. LeMay:

Enclosed is Texaco's completed Form C-108 in the above referenced case. This matter is scheduled for hearing before a Division Examiner on October 17, 1991.

Very truly yours,

WILLIAM F. CARR

WFC:mlh Enclosures

cc w/enclosures:

Mr. J. T. Sexton

Supervisor and Oil & Gas Inspector

District II Box 1980

Hobbs, New Mexico 88240

cc w/o enc.:

Michael L. Pierce

Peak Consulting Services

c/o Texaco Exploration and Production Inc.

205 E. Bender Blvd.

Hobbs, New Mexico 88240

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| NEW MEX | ICO OIL CONSERVATION COMMISSION | |
| | EXAMINER HEARING | |
| | SANTA FE , NEW MEXICO | |
| Hearing Date | OCTOBER 17, 1991 | Time: 8:15 A.M. |
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| Maurice Nimmer | Byrom | SF |
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| NEW MI | EXICO OIL CONSERVATION COMMISS | ION |
| | EXAMINER HEARING | _ |
| | SANTA FF, NEW MEX | CO |
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| Hearing Date | NOVEMBER 21, 1 | 991 Time: 8:15 A.M. |
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

of the earlier submittal.

OIL CONSERVATION DIVISIONECEIVED

FORM C-108

| ENERG | | IEW MEXICO ALS DEPARTMENT | OIL CONSERVATION : POST OFFICE BOX 20 STATE LAND OFFICE BUX SANTA FE NEW MEXICO | 66 | FORM C-108 Revised 7-1-81 Case 10401 |
|---------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| APPLICA | LTION FOR AUT | HORIZATION TO INJ | | OF1 % (133) | Case 10401 |
| Ι. | Purpose: | X Secondary Recov | Ωii | CONSERVATION DIV | Disposal Storage |
| 11. | Operator: | | ATION AND PRODUCTI | _ | |
| | Address: | 205 East Bende | er Blvd. Hobbs, N | ew Mexico 8824 | 0 |
| | Contact par | ty: <u>Michael L. H</u> | Pierce | Phone: | 505-392-1915 |
| III. | Well data: | | | | this form for each well attached if necessary. |
| IV. | Is this an If yes, giv | expansion of an e ve the Division or | xisting project? der number authoriz | yes X | |
| ٧. | injection v | vell with a one-ha. | all wells and leas lf mile radius circ s the well's area o | le drawn around | iles of any proposed each proposed injection |
| VI. | penetrate t | the proposed injec e, construction, d | tion zone. Such da | ta shall includ on, depth, reco | in the area of review which le a description of each rd of completion, and il. |
| VII. | Attach data | a on the proposed | operation, includin | g: | |
| | 2. Whe 3. Pro 4. South 15. If | ether the system in oposed average and arces and an appro- the receiving form injection is for at or within one mathe disposal zone | s open or closed; maximum injection priate analysis of ation if other than disposal purposes i ile of the proposed | pressure; injection fluid reinjected pro nto a zone not well, attach a | fluids to be injected; and compatibility with duced water; and productive of oil or gas chemical analysis of inferred from existing |
| VIII. | detail, ged bottom of a total disso | ological name, thi all underground so olved solids conce zone as well as an | ckness, and depth. urces of drinking w | Give the geologater (aquifers) | iding appropriate lithologic gic name, and depth to containing waters with overlying the proposed ely underlying the |
| IX. | Describe th | ne proposed stimul | ation program, if a | iny. | |
| х. | | | nd test data on the not be resubmitted. | | l logs have been filed |
| XI. | available a | and producing) wit | f fresh water from hin one mile of any samples were taken. | injection or d | esh water wells (if disposal well showing |
| XII. | examined as | vailable geologic | s must make an affi and engineering dat ection between the | a and find no e | vidence of open faults |
| XIII. | Applicants | must complete the | "Proof of Notice" | section on the | reverse side of this form. |
| XIV. | Certificat: | ion | | | |
| | to the best | t of my knowledge | formation submitted and belief. | d with this appl | ication is true and correct |
| | Name: Mi | chael L. Pierce | 9/ | Title <u>Cor</u> | |
| | Signature: | | | Date: | 9-24-91 |

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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| Figure 5 Sigman (1) 1 Sigman (1) Sigma | 2 Pet et e | There y Morth Bk Tr. Yores Per eval (35° Per S) Valid Se 19 (10° Per S) | 18.2 (10erry Navi 20.4) 18.2 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (18.5 (| 10000 21000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 |

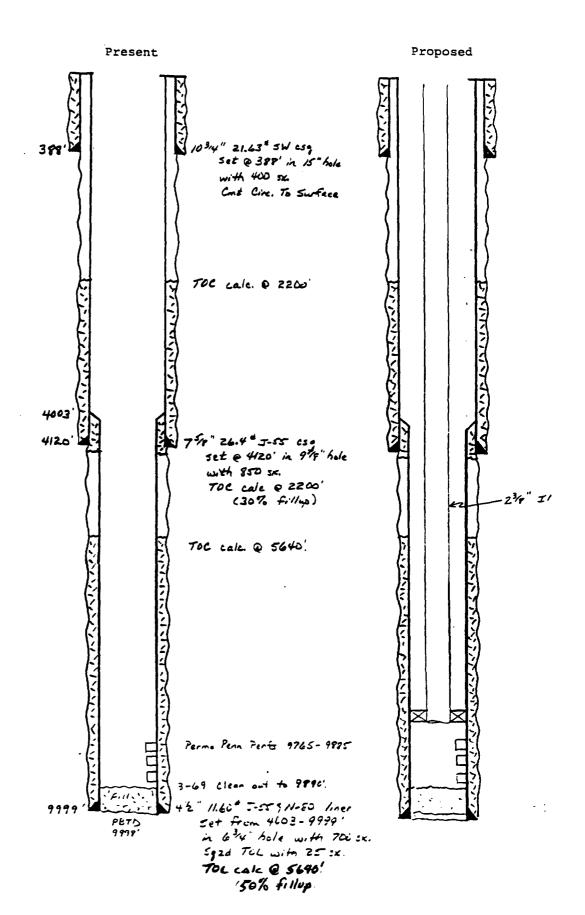
1) New Mexico 'AT' State well No. 4 1980' FSL and 660' FEL sec. 15 - T14S - R33E Injection interval 9521 - 9974

Present Proposed 1074" 32.75 # H-40 esg Set @ 354' in 15" have with 400 sx. Cont Circ to Surface. 4131 set@ 4131' h 9%" hole with 1750 sx. Cont Circ to Surface *BOC cale @ 4900* TUE cale @ 8800' 5920 Permo Penn Perfs 9521-9974 9762 - 9974 open 10,000 FETS 4'2" 11.6" N-70 \$ J-55 eso Set & 10,000 in 634" hole 9995 with 250 sk. TOC cale & 8700'.
TOL 3 3977' and 5025 with 200 sx
BOC OAK Q 4900"

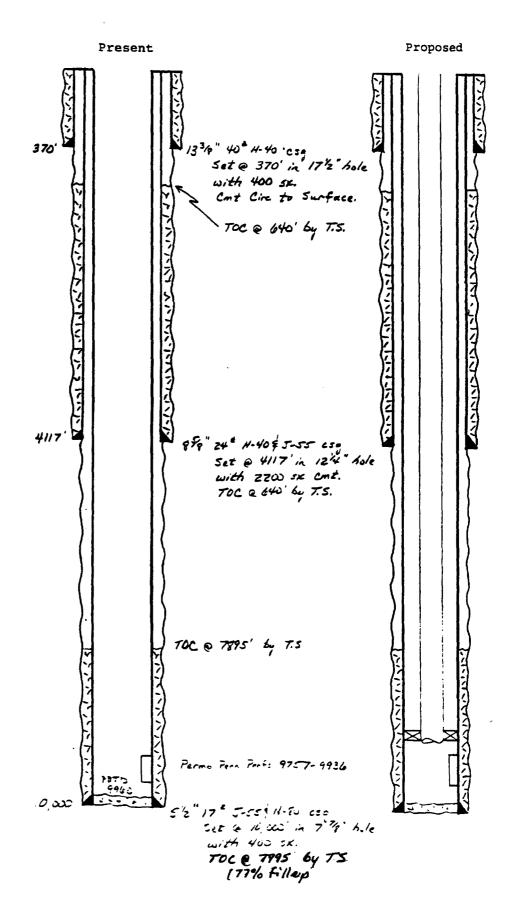
2) New Mexico 'AT' State well No. 10 1650' FSL and 2305' FWL sec. 15 - T145 - R33E Injection interval 9762 - 9935

Proposed Present Set @ 500' in 174" hale with 600 sx, Cont Circ to Surface 28 132", J-55, K-55, and N-80 csq set @ 4190 in 12'4" hole with 2100 sx. Cont Circ to surface Permo Fers Paris 9762-9935 10,100 512" 17" 5-554 N-70 cie sit a 10,100" in 779" hije Path 5055 W/ 1850-5x5 Toc @ 375' by TS

3) New Mexico 'AN' State well No. 9 660' FNL and 1980' FWL sec. 22 - T145 - R33E Injection interval 9765 - 9885



4) New Mexico 'AN' State well No. 7 660' FNL and 660' FEL sec. 22 - T145 - R33E Injection interval 9757 - 9936



| OPERATOR | <u> </u> | | | | OATE | |
|-----------------|----------|---------------------------|------------------|----------------------|--------------------------------|-------------------------|
| LEASE MONIO | Explora | Time sad De tote NCT-1 | WELL NO. | LOCATION | 9-11- | 9/ |
| NW FUN | 0 20 3 | 17)10 1011 | | 660' F50 | + 660'FU | |
| | | | | Status: A | Active Produce Inders Permo | - Busa |
| المدرر | 7777 | | | M | naus remo | , 20,1, |
| | | 13% "CS6 17½" holé | 5e+ (2 | 344' w/ | 425 2× \$ | <u>circ</u> |
| | | | | | | |
| 4 | | | | | | cement |
| | Hol | e size <u>/2/4</u> | _" C | ut cinculi | 9 ted | |
| | | | | | | |
| | P. | uf 9753 ey 9857- | 3 - 979 - 992 | 94 O | | |
| | <u>5</u> | $\frac{1}{2}$ casing so | et at <u>99</u> | 999' with | 40 sx of _ | cemen |
| | To | tal Depth <u>/0,0</u> | י Ho | le size <u>7 / 8</u> | 3_" TOC Survey BZ | cemen by temp 90' |

| OPERATOR | sheating mo Pa | ante T | 0ATE 9-11-9 | 9/ |
|------------------|--------------------------------------|------------------------------------------|-----------------------|------------------------------|
| LEASE NOW MORICO | BG State NCT-1 | WELL NO LOCATION 3 UNIT A | 14-14-33 | |
| روا المس | 77 | | STUNDERS PERMO | د |
| | 1/3/4" C56 15" hole. | set () 365 | 'w/ 350 5x5 | CIRC |
| | <u>8 /3</u> " casing Hole size 10 /8 | set at <u>4/50</u> ' | with <u>900</u> sx of | cement |
| | py 9754- | 9947 | | |
| | $\frac{4/2}{2}$ " casing se | et at <u>10045</u> ' wi 45' Hole size | th <u>//00</u> sx of | cemer 7099' Zoefficien |

| TEXACO (| Explorati | in + Proportion | Inc | | DATE 9-11-9/ |
|----------|-----------|----------------------------------------------------|------------------|-------------|---------------------------------------------------------|
| | | BG State NOTI | WELL NO. | Unit E | 14-14-33 |
| | , | | | tatic 1 | med 660' FWC five Producer indexs Permo-Run |
| | | /134 "C56 5 | et @ | 387' w/ | 225 SXS CIRC |
| | ! | Nole size 1073 | " 7 4929 | JC @ 1530 | 900 sx of cemen 6' using 50% efficiency 4950 w/2 511073 |
| | | ref 9771- | 9954 | | |
| | | <u>4½</u> " casing ser Total Depth <u>10,01</u> | t at <u>/0</u> 0 | 08 'with _/ | 1/00 sx of ceme 7/8 " TOC @ 7069' Using 50% efficient |

| OPERATOR | TEXACO EXPLORA | ATION AND PRODUCING | INC. | | DATE | 911-91 | |
|----------|----------------|-----------------------------------|--------------|------------|----------|--------------------|----------------|
| LEASE | NM- STATE AT | LEASE | WELL Na. | UNIT P | 15-14- | -33 | |
| | | | | | | 660 FE | |
| 7777 | m m | - | | Status | : Action | ve Productions Pen | cer mo-Penn |
| | | 13% CSg se 171/2" hole | + @ | 348' C | mt w/ | 475 SX | is <u>Circ</u> |
| | | $85/8$ " casing Hole size _// | | | | sx of | cement |
| | + | perf 9748 - perf 9948 - | 9910 9953 | Selectivel | ly A/ | 500 gal | 15% |
| | | SS " casing se Total Depth 999 | + 3+ 99 | 199 : with | 350 | sx nf | cemer |

| OPERATOR | TEXACO EXPLORATION AND PRODUCING | INC. | | 9-11-91 | |
|----------|----------------------------------|----------|--------|----------|--|
| LEASE | NM- STATE AT LEASE | WELL NO. | Unit F | 15-14-33 | |

1980 FNL MO 1980' FWL STATUS: ACTIVE PROJUCER SOUNDERS Permo-Penn

103/4" CSG ret @ 366' ω/ 400 5x5 <u>Cinc</u>, 15" hole

75/8 " casing set at 4/40" with 700 sx of _____ cement

Hole size 105/8 " Toc @ 2637" using 50% officioncy

perf 9359-9387 } these perfs to be square 9501-9684 } these perfs to be square 9495-9601 }

perf 9866-9974 A/1000 LSTNE
9773-9930
9769-9944

Liner top @ 3969

His "easing set at 10000" with 700 sx of _____ cemen

Total Depth 10000" Hole size $6\frac{3}{4}$ " Circ cmt

I'M 6029" Liner

| TE | XACO EXPLORATION A | AND PRODUCING | INC. | | DATE | 91191 | |
|--------|--------------------|-------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------|-------------------------|--------------------------------|-------------|
| ASE NY | 1- STATE AT LEASE | | BELL NO | Unit L | 15-14- | 33 | |
| الاس. | | | | 1980' FSG STATUS! | Active I Swapers | 60' FWL Irodicez Permo-r | leun |
| | /3 | 3%" CSG re 7/2" ho/c | t @ | 480' ~/ | 700 5×5 | Cemt (| Ciec. |
| | _ | 8 " casing size <u>/2/4</u> | | | | | |
| | per | 9813 † 9973 - 9910 - | - 9872 9983 9944 | 3 } A/sc | n gal | 15-73 N | UE acid |
| | <u>5/2</u> | <i>DV 1</i> 5, 699: " casing set Depth <u> 10</u> /08 | o/ @ 7 : at <u>/0</u> : | /s ^f 5 2 nd 5 <u>/10</u> ' with | tage u/ tage w/ s | 900 5xs 750 5ks x of | <u>Cinc</u> |

| TEXACO EXPLORATION AND P | RODUCING INC. DATE 9-11-91 |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEASE NM- STATE AT LEASE | WELL NO. LOCATION 9 UNIT M 15-14-33 |
| دريا الماريد | 860' FSL and 660 FWL Status: Active Producer Savaders Permo-Penn |
|] | 1" CSG set @ 470' conto w/ 700 sxs <u>cric</u> 1/2" hole |
| | casing set at 4/85' with 1600 sx ofcement |
| pert | 9806-10015 A/9500 god 15% NExcid |
| 5/2 " ca Total Dep | 1 fool Q 1 st stage cant w / 1100 sxs 7015' 2 nd stage cant w / 900 sxs cinc asing set at $10,100$ ' with sx of cemer th $10,100$ ' Hole size $7\frac{1}{3}$ " |

| OPERATOR | TEXACO EXPLO | RATION AND PRODU | JCING INC. | | 9-11-91 |
|----------|--------------|----------------------------|-------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------|
| LEASE | NM- STATE AT | LEASE | VS/ | Unit 6 | 15-14-33 |
| 7777 | m mw | 7 | | 5 tatus: | L and 1650' FEL ACTIVE Producer Samples Permo-Penn |
| | | /3% "C | 'S6 set & |) 525′4 | u/ 650 5x5 cut <u>Cie</u> c |
| • | | | | | th <u>2000</u> sx of cemen emp survey @ 750' |
| | | 97 98 perf 99 Spo | 768 - 98: 383 - 989 194 - 9999 04 CIBA | 33', 38, 7 ' | ' + 10' cnst. |
| | | <u>52</u> " casir | ng set at _ | 1st stage 2 Nd stage 10019' with _ Hole size | conto w/ 950 5x5 conto w/ 1200 5x5 <u>circ</u> sx of ceme 7/8_" |

| OPERATOR | TEXACO EXPLOR | ATION AND PRODU | CING INC. | | 9-11-91 | |
|----------|---------------|-------------------------------------------|-------------------------|----------------------------|--------------------------------------------------|-------|
| LEASE | NM- STATE AT | LEASE | WELL NO. | Unit E | 15-14-33 | |
| 7778 | | 7 | | 5 44+15' | L MID 660' FO ACTIVE PRODUCE MIDELS PERMO- | K |
| | | 13 | | 525 w/ 1 | 600 sxs cmt | Cinc |
| | | <u>1838</u> " ca: Hole size <u>/</u> 2 | sing set at 2/4 " CM | <u>4166</u> with | sx of | cemen |
| | | pert 9 | 790 - 99 | 79' A/ 8 | 2000 gal 15% | |
| | | DV +00/ 6999 | (2) 157 Fr 2 Nº | t stage cant stage cant | το ω/1000 SKS -0 ω/ 1200 SKS SX Of | cinc |

Total Depth 10 100 ' Hole size 7 1/8 "

| OPERATOR | TEXACO EXPLOR | ATION AND | PRODUCIN | G INC. | | DATE | 9-11-91 | |
|----------|---------------|----------------------|----------------|-----------|--------------------------------------------------------------------------------------------|-------------------|-------------------------------------|----------------------|
| LEASE | NM- STATE AT | LEASE | | WELL N | unit 0 | 15-14 | | |
| 7770 | rn 111777 | • | | | 660' FS: | ACTIVE | 1980' FER - Producer s Permo- | |
| | | /3 ½ /7½ | CSG Sa hole | et Q | 252 0 | mt w/ | 680 SXS | CIRC |
| | | | | | 4200 t <u>525'</u> w Cmt <u>Cin</u> | rith 600 | | cement |
| | | pert | 9786 | -/000 | 2 A/120 | no gal | 15% NE | 1CO |
| | | DV 400 7 5/2 " | casing s | /set at _ | † <i>stage cu</i> 1 ⁴ <i>stage cm</i> <u>10,10)</u> ' with Hole size _ | 1tp w/ tp w/ 1 | 950 5x5 1200 5x5 .sx of | <u>CIRC</u> cemen |

| OPERATOR MAN 34MO D | :1 CORD | | | DATE 9-11-91 |
|--------------------------------|------------------------------|--------------------------------------|----------------------------------|---------------------------------------------------------------------|
| LEASE LEA VF | | WELL NO | LOCATION UNIT P | 16-14-33 |
| درروا المارين | | | Status: | md 330' Fel Active PROONCEL vs Permo-Penn |
| | 113/4 "CS6 Se 143/4" hole | | 12' w/ 400 | sxs cmt. Cinc |
| | 8 8 " casing Hole size // | _" C. | nt cinc | |
| 6250 | 5e+ 5 | U tool | @ 8675 @2 840 S1/2" CSG | , 08 pump 160 SXS © 6250 pump 160 |
| 8408 7/// perts 5 - = | OID Hade: | f@ 10 Age cmt Age cmt 9847— | 120' w/ 670; w/ 700; w/ 700; 4/2 | DV +001 @ 7515' 5x5 5x5 - Cmt ciac 150 9m/ 400 sx of ce |

| PERATOR | | RATION AND PRODUCI | NG INC. | | 9-11-91 | 1 |
|---------|--------------|-----------------------|------------|-------------------|-----------------------|---------|
| EASE | STATE AN LEA | | WELL NO. | LCCATION L | 22-/4-33 | |
| | | | 1 8 | 19001 E | We mid 660' FEA | |
| | | | | Classic | Active moduces | |
| | | | | 777705. | Sounders Permo | - Penn |
| 7777 | | 777 | | | 27,- | |
| | | | | | | |
| | | | | | | |
| | | , | / | | 475 | |
| | | . 103/4" C5 | 6 set @ | 369' w/ | 475 400 SXS CMT | CIRC. |
| | | hole siz | te 15" | , | | |
| | | | | | | |
| | | • | | | | |
| | | | | | | |
| | | , | | | | |
| | 4 1 | <u> 7 //3</u> " casi | ing set at | 4/22 W | ith <u>1700</u> sx of | cemer |
| | | Hole size 97 | g " | TOC 3 | inc | |
| | | | | | | |
| | # | 592 CSG | ceak @ | 4912 - | 5380 ~/ 200 | 2×2 |
| | | , | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | perf 9 | 9776 - 9 | 9794 | | |
| | | sed 9 | 1870 - 9 | 920 | | |
| | | and a | 917 a | 070 | | |
| | | 1 | 16/- / | 7 70 | | |
| | | | | | | |
| | | Top of Line | @ 397 | i' Cust | Bottom of Cine wy | /250 SX |
| | | ul Cinen | | Cmt | top of line w/ | .00 -10 |
| | | 4/2 " casing | set at _/ | <u>10000</u> with | sx of | ceme |
| | | Total Depth / | | | 13/1 | |

| TEXACO EXPLORA | TION AND PRODUCING | INC. | | 9-11-91 | |
|----------------|-------------------------------------------------------------|----------------------------|------------------|------------------------------------------------------|------|
| STATE AN LEASE | · · · · · · · · · · · · · · · · · · · | WELL NO. | LICCATION UNITE | J 2 - /4 - 3 3 | |
| | | | 1980' FNL | and 660' FWL tetive producen Emalers Penno Per | 101 |
| | 117/4 "C56 15" hole | ret (a | Q 355′ω/ | / 300 5xs Cinc | |
| | $\frac{8^{5/8}}{8}$ " casing Hole size $\frac{10^{5/8}}{8}$ | set at " 7 | <u>4/20</u> with | 500 sx of | _ ce |
| | 121 9790 - | - <i>979</i> 4 | 2 | | |
| | perf 9790- perf 9898 perf 9902 | - 1116 - 991. - 996: | 3 | | |
| | $\frac{1}{4/2}$ " casing se | - 176, tat // | / 0 /40! with | 1/00 sx of | C |

| TEXACO EXPLORATION AND P | RODUCING INC. | DATE 9-11-91 |
|--------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| STATE AN LEASE | WELL NO. LOCATION | 0 22-14-33 |
| | | FNL med 660' FWC fus: Active Producer Sanders Resmo-Pem |
| | 1" C56 Set @ 500 1" hole | o' conto u/ 600 sxs cinc |
| | " casing set at <u>4190</u> | ' with <u>2800</u> sx of ceme <u>Cinc</u> |
| serf 9 | 792-997/ | |
| 5/2 " o | 15 / 1052 / 2mg asing set at <u>10,100</u> 'w oth <u>10,100</u> 'Hole size | + Stage CM+0 ~/ 900 SXS + Stage CM+0 ~/ 1320 SXS CM with SX of cerr = 77/8 " |

| PERATOR | | ATION AND PRODUCING | G INC. | | 9-11-91 | |
|---------|---------------|--------------------------------|---------------------------|------------------------------------------|--------------------------------------------------|--------|
| EASE | STATE AN LEAS | E | WELL Na | LOCATION UNIT (3 | 2 2- 14 -3 3 | |
| 7770 | | 7 | | Statis | md 2303 FEL Active producer Sminders Permo | -Paun |
| | | 13% " CSG 17½" hole | | ? 525 [°] (| emto w/650 5x | s cinc |
| | | 85/8 " casin Hole size 12/4 | g set at | 4200 with | <u>2000</u> sx of | cemer |
| | | perf 979. | 1 - 99 | 44 | | |
| | | • |) 6975 et at <u>/0</u> | /st sta 2nd sta <u>wg</u> ' with _ | oge comto w/ 99 ye comto w/ new sx of | Ceme |

| TIME SHATE | B. Gilles | | WELL NA | 660' FW | 9-11-91 23-14-33 L And 1980' FA Active Production Savaders Perm | IL. |
|------------|-----------------------|--------------------------------------|------------------------|-------------------------------|-----------------------------------------------------------------------------|---------------------|
| | 7777 | | | 660' FW | L AND 1980' FA | ll ex co-Pern |
| | | | | | | |
| . | 13 | 3/2" CSG (71/2" Hole | 29. ② 30 | s' cmto | w/ 250 SKS | Circ |
| | <u>85/9</u> Hole s | casing | set at | <u>4169</u> ' with OC 6y 5 | /500 sx of | ceme |
| | per | 9765 - 9808 - 9914 - | 979/ 9383 9929 | | | |
| | <i>1</i> / | Top of Line | и @ 40 | 946' 59 2 | top of cine w | / 2009 |
| | 5/2 | " casing set Depth <u>995</u> | t at <u>994</u> | 9 ' with _ (| <u>000</u> sx of | cen |

| OPERATOR James | B. Gillesp | ia Ta | | OATE 9-//- | 97 |
|----------------|----------------------------------------------|-------------------------------|----------------------------------------------------------|------------------------------------------------|------------------------|
| LEASE STATE | 5 | ie sa | MELL NO LOCATION S Unit | D 23-14-33 | 3 |
| may | 7777 | | 660 | 'FNL + 660' US: Active pro Saunders Mer. | Fwc |
| | | 3/3" CS6 2 7'/2" Hole | et @ 293 | -'w/ 250 5x | s <u>Cinc</u> |
| | <u>8 </u> | " casing s ize <u>//</u> " | et at <u>4/54</u> Toc | with <u>/500</u> sx of 544' using S | cement 50% efficiency |
| | py py | 9760 - 9857- 9 | 9804 370 | | |
| | 5/2 Total | Depth | 2 4011 at <u>9985</u> ' wi _' Hole size _ 7788' | | cement |

FORM C - 108 cont.

Part III. A

1.) New Mexico 'AT' State No. 4
1980' FSL and 660' FEL
Sec. 15 - T145 - R33E
Unit I
Lea County, New Mexico

New Mexico 'AT' State No. 10 1650' FSL and 2305' FWL Sec. 15 - T145 - R33E Unit K Lea County, New Mexico

New Mexico 'AN' State No. 9 660' FNL and 1980' FWL Sec. 22 - T14S + R33E Unit C Lea County, New Mexico

New Mexico 'AN' State No. 7 660' FNL and 660' FEL Sec. 22 - T145 - R33E Unit A Lea County, New Mexico

- 2.) See attached wellbore schematic's.
- 3.) Propose to run 2 3/8" plastic coated tubing, and set at approximately 100' above top perf.
- 4.) Propose to run IPC Model R Packer as a seal, and load the backside with packer fluid.

Part III. B

- 1.) The injection interval is the Permo Upper Penn, and the wells are located in the Saunders Permo Upper Penn Field.
- 2.) The injection interval will be cased at approximately 9748' 9974'.
- 3.) These wells were originally drilled as producing wells.
- 4.) See wellbore schematic
- 5.) There is no deeper oil horizon or shallower oil producing zone in the immediate vicinity.

Part VII.

- 1.) The proposed daily injection will be 2000 bbls. per day. The maximum will be 2000 bbls. per day.
- 2.) The system will be closed.
- 3.) The average injection pressure will be O(Vacuum). The maximum will not exceed the limits set forth by the OCD.
- 4.) The source of the injection water will be from fresh water wells drilled on or near each injection well.
- 5.) The Saunders Permo Upper Penn is productive within one mile of the injection wells.

Part VIII

The injection interval is the Permo Upper Penn in the Saunders Permo Upper Penn Field, and is composed of alternating beds of red shale and porous limestone. The top of the Permo Penn section is the top of the Wolfcamp at approximately 9119'. This entire area is overlain by the Quaternary Alluvium and caliche. The fresh water in the area comes from the Ogalalla aquifer. There are no fresh water zones below the Saunders Permo Upper Penn section.

Part IX

The disposal interval will be treated with a breakdown acid job.

Part X

The logs have been submitted by Texaco.

Part XI

The water analysis for fresh water wells within one mile of the proposed injection wells are attached.

Part XII

We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.

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HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES MIDLAND DIVISION HOBBS, NEW MEXICO 88240

LABORATORY REPORT

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| | John Eubank | | | |
| _ | Respectfully submitt | ed, | | |
| Analyst: | | HALLIBURTON COMPANY | | |
| cc: | R., | | | |
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

of the earlier submittal.

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87501

RECEIVED

FORM C-108 Revised 7-1-81

SFP 2 / 1991

| APPLICA | ATION FOR AUTHORIZATION TO INJECT | QIL CONSERVATION DIVISION |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I. | Purpose: Secondary Recovery Pressur Application qualifies for administrative a | e Mæintenance ☐ Disposal ☐ Storage pproval? ☐ yes ☑ no |
| II. | Operator: TEXACO EXPLORATION AND PRODUC | FION INC. |
| | Address: 205 East Bender Blvd. Hobbs, | New Mexico 88240 |
| | Contact party: Michael L. Pierce | Phone: 505-392-1915 |
| III. | | reverse side of this form for each well al sheets may be attached if necessary. |
| IV. | Is this an expansion of an existing project? If yes, give the Division order number author | igsqcup yes $igsqcup$ no izing the project |
| ٧. | Attach a map that identifies all wells and le injection well with a one-half mile radius ciwell. This circle identifies the well's area | rcle drawn around each proposed injection |
| VI. | Attach a tabulation of data on all wells of penetrate the proposed injection zone. Such well's type, construction, date drilled, loca a schematic of any plugged well illustrating | data shall include a description of each tion, depth, record of completion, and |
| VII. | Attach data on the proposed operation, includ | ing: |
| | Whether the system is open or closed; Proposed average and maximum injection Sources and an appropriate analysis of the receiving formation if other the state of the proposes at or within one mile of the proposes | n pressure; f injection fluid and compatibility with an reinjected produced water; and into a zone not productive of oil or gas ed well, attach a chemical analysis of may be measured or inferred from existing |
| VIII. | Attach appropriate geological data on the inj detail, geological name, thickness, and depth bottom of all underground sources of drinking total dissolved solids concentrations of 10,0 injection zone as well as any such source kno injection interval. | . Give the geologic name, and depth to water (aquifers containing waters with 00 mg/l or less) overlying the proposed |
| IX. | Describe the proposed stimulation program, if | any. |
| х. | Attach appropriate logging and test data on twith the Division they need not be resubmitted | he well. (If well logs have been filed d.) |
| XI. | Attach a chemical analysis of fresh water from available and producing) within one mile of a location of wells and dates samples were take | ny injection or disposal well showing |
| XII. | Applicants for disposal wells must make an af examined available geologic and engineering or any other hydrologic connection between the source of drinking water. | ata and find no evidence of open faults |
| XIII. | Applicants must complete the "Proof of Notice | " section on the reverse side of this form. |
| XIV. | Certification | |
| | I hereby certify that the information submitt to the best of my knowledge and belief. | |
| | Name: Michael L. Pierce Signature: | Title Consultant |
| | Signature: | Date: 9-24-91 |

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.: location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

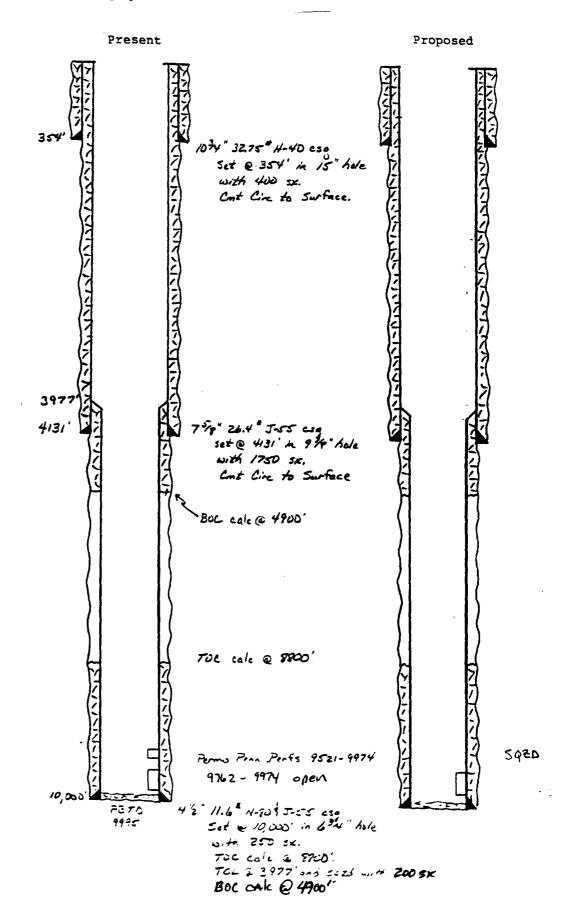
- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (4) a notation that interested parties must file objections or reque. For mearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexi 1750° ∀ithin 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NO THE BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or reque of factoring of administrative applications within 15 days from the date this application was mailed to them.

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| Yates Per, etal | 2-AAU ********************************** | Tates Pet 13 (1962) 1440 15 (1962) 15 (1962) 16 (1962) 17 (1962) 18 (1962) 19 (1962) 19 (1962) 19 (1962) 19 (1962) 19 (1962) 19 (1962) 19 (1962) 19 (1962) | Vates Pet, stell (2.1.92 (2.1.92 (2.1.93 (2.1.93 (2.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1.93 (3.1. | YalesPer, etal 3, 1, 29, 3, 1, 29, 3, 1, 29, 3, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, | n and Prod per Penn P and AT' T14S - , New Mex |
| Tonog Tonog Tonog Tonog Tonog Tonog Tonog Tonog S. LG.2265 | Vortes tance II. M Huber III. Of the III. | F787 | (Amerodo) E-2075 (B. Gillespic, Jr. 1332 23 1733 23 1744 5144 5104 | | aco Explorata aunders Permo N.M. State Sec. 15, Lea Cour |
| (Mobility Signature of the control o | =(457)= 10 (37) | 11.5 A 10.9 11.2 15.3 15.4 15.4 15.4 15.4 15.4 15.4 15.4 15.4 | C. C | Colorado 2,8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | R G Borren L R G Borren L R G Borren L R G G G G R G G G G G R G G G G G G R G G G G |
| 519mer 519mer (M. K. 1200 (53, 344) (M. 1200 (53, 344) | 1.0 " 1.0 | | | Sigmar 1-5087 Sounders S 2-1-8 1-8 1-8 1-8 1-8 1-8 1-8 1-8 1-8 1-8 | Breen (PETED) SE -2115 SE -215 SE -2115 |
| Constal DEG. (2076 (Aztec) 2 (asstal QG (asstal QG (*4177) (gental OLG (*4177) | Han St K-4 | Maria Se 22 | |] | Feep Fret. Vates Pet, etal 12: 29 1 8 1 191 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| September Segment of the september of th | Comerry 6 1055 | The state of the s | 10.00 | Visit Checon Checon High High | |

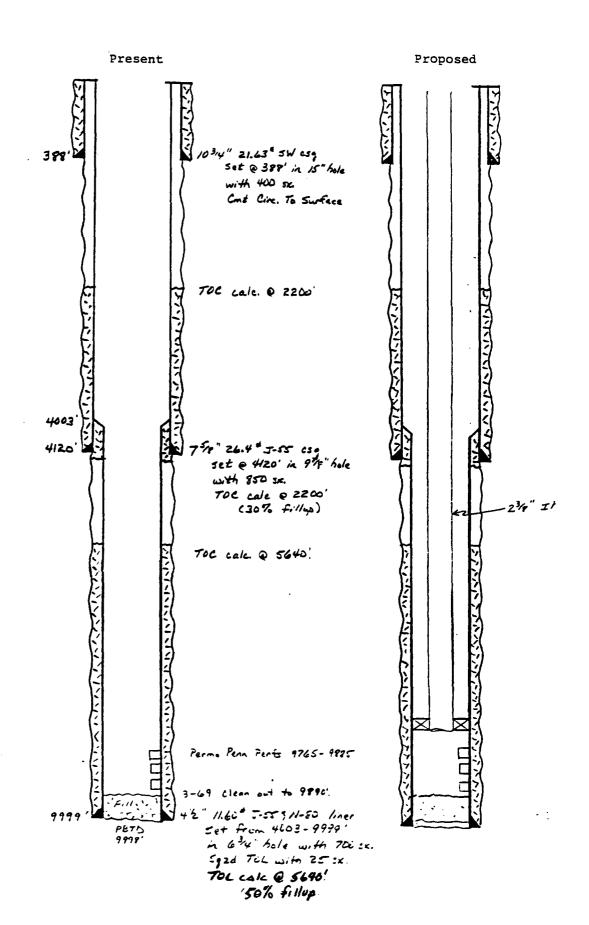
1) New Mexico 'AT' State well No. 4 1980' FSL and 660' FEL sec. 15 - T14S - R33E Injection interval 9521 - 9974



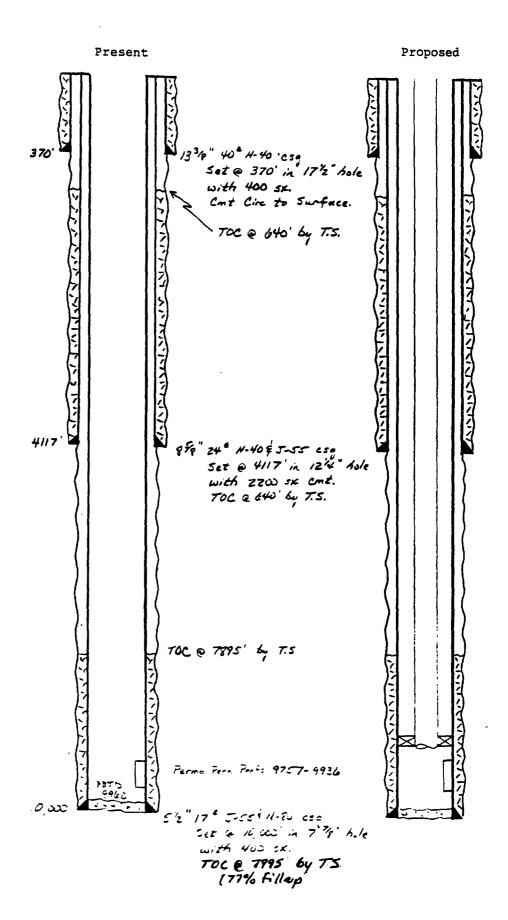
2) New Mexico 'AT' State well No. 10 1650' FSL and 2305' FWL sec. 15 - T14S - R33E Injection interval 9762 - 9935

Present Proposed Set @ 500' in 174" hale with 600 sx. Cont Circ to Surfece 28 132", J-55, K-55, and N-80 esq set @ 4190 in 124" hole with 2100 sx. Cont Circ to surface Permo Fer, Paris 9762-9935 10,100 51/2" 17" 7-55 ! N-90 csc Sit & 10,100" in 77/2" here 3935 W/ 1850-5KS TOC @ 375' 64 75

3) New Mexico 'AN' State well No. 9 660' FNL and 1980' FWL sec. 22 - T14S - R33E Injection interval 9765 - 9885



4) New Mexico 'AN' State well No. 7 660' FNL and 660' FEL sec. 22 - T14S - R33E Injection interval 9757 - 9936



| OPERATOR | | | | | | DATE | |
|------------------------|----------|----------------------------------------------|-------------------------------|------------------------|----------------------------|------------------------------------------------|--------------------|
| TexACO LEASE NEW MEXIC | Explored | State | NOTI | WELL NA | LOCATION | 9-11- 14-14-33 | 9/ |
| THE MEST | | 511776 | 700 7-7 | | 660' FS | SC + 660'FM Active Produce rinders Permo | K |
| | | | "CSG 5- " hole | e+ (w | 344' wy | / 425 5×\$ | <u>circ</u> |
| | Нс | <u>8 </u> | casing : 12/4 | set at _ | <u>4/20</u> with | n <u>2400</u> sx of | cement |
| | / /· | sef | 9 753 9857- | - 9 <i>7</i> 9 9920 | 4 | | |
| | To | <u>5/2</u> " ca otal Dept | ising set th <u>/0,000</u> | at <u>99</u> 9 | 99' with _ e size _ 7 ? | 400 sx of | cement by temp 90' |

| OPERATOR TAYARO EX | sheating mo Pa | anthi To | 0ATE 9-11 | 1-91 |
|--------------------|---------------------------------------------------------|--------------------------------------------------|------------------------------------------------|-------------------------------|
| LEASE NOW Mexico | BG State NCT-1 | WELL MA LOCATION | K 14-14-33 | |
| 777 | 77 | | FBL and 1651 15! Active proc Sources Per | lucen |
| | 1/3/4" C56 15" hole. | set (2 365 | 5'w/ 350 5X5 | s circ |
| | 8 / 3 " casing Hole size 10 / 8 | g set at <u>4/50</u> _" | with <u>900</u> sx of | cement 50% efficient |
| | pef 9754- | 9947 | | |
| | ع د معنا الله على الله الله الله الله الله الله الله ال | et at <u>/0045</u> ' w <u>245</u> ' Hole size | ith <u>//OU</u> sx of _7 | cemen 2 7099' 502 efficience |

| OPERATOR TEXACO | Explore | Afrin - | + Propue tim | Inc | | 9-11-91 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|--------------|----------------|--------------------------------------------------------------|
| | | | State NOT.1 | WELL Na | LOCATION UNITE | 14-14-33 |
| 777 | The state of the s | 7 | | | tatis 1 | ANG 660' FUC FIVE Producer Unders Permo-Roma |
| | | // | 134" C56 5 | et @ | 387 w/ | 1 225 5X5 CIRC |
| | | Hole CSG | size <u>107</u> 8 | 4929 | 5c @ 153 | 900 sx of cemer 6' using 50% efficiency 4950 w/2 5HUTS |
| | | pelf | 977/— | 9954 | | |
| | | <u>4/2</u> Total | _" casing set | at <u>/0</u> | 08 'with / | 1/00 sx of ceme 7/8 " TOC @ 7069" Using 50% efficie |

| PERATOR | TEXACO EXPLOR | ATION AND PRODUCING | INC. | | 9-11-91 | |
|---------|---------------|-----------------------------------|----------------|--------------------|---------------------------|-------------------|
| EASE | NM- STATE AT | LEASE | WELL MA | LICCATION IS | 5-14-33 | |
| | | | | 660' FS1 | r 4 660 1 | EL |
| יינני | П П | 7 | | Status: | Active Prop Saunoers P | ducer emo-Penn |
| | | 13% CSg so 17½ hole | ·+ @ | 348' CM | t w/ 475 s | sks <u>Circ</u> |
| 4 | | 85/8 " casing Hole size _// | | • | 2400 sx of _ | cemen |
| | 7111 | Perf 9748 - perf 9948 - | 9910 9958 | Selectively | A/ 500 9A | 15% |
| | | SS " casing se Total Depth 999 | t at <u>99</u> | 199' with <u>3</u> | 550_sx of | ceme |

| OPERATOR | TEXACO EXPLORATION AND PRODUCING | INC. | | 9-11-91 | |
|----------|----------------------------------|---------|----------|-------------|--|
| LEASE | NM- STATE AT LEASE | WELL MA | Unit F | 15-14-33 | |
| | | 19 | 80 FNL M | 0 1980' FWL | |

1980 FNL MD 1980' FWL STATUS: ACTIVE Producer Sammers Permo-Penn

103/4" CSG ret @ 366' ω/ 400 5x5 <u>Cinc</u>. 15" hole

75/8 " casing set at 4/40" with 700 sx of _____ cement

Hole size 105/8 " TOC @ 2637" Using 50% officioncy

perf 9359-9387 } these perfs to be sq20 9501-9684 } these perfs to be sq20 9495-9601 } perf 9866-9974 A/1000 LSTNE 9773-9930 9769-9944

4½ " Ciner top@ 3969

4½ " easing set at 10000' with 1000 sx of _____ cemer

Total Depth 10000' Hole size 634" Circ cmt

1M 6029' Liner

| PERATOR | TEXACO EXPLORATION AND F | RODUCING INC. | | 91191 | |
|---------|--------------------------|------------------------------------------------------------------|-----------------------|------------------------------------------------------|--------------------|
| EASE | NM- STATE AT LEASE | WELL N | Unit L | 15-14-33 | |
| 7777 | m | | 1980' FSL 5 TATUS: | and 660' FWL Active Produces SNADOLS Permo-Pen | en |
| | 13% 17/2 | "CSG net W "Hole | 480' w/ | 700 5x5 Cent C | ièc. |
| • | | | | h <u>1500</u> sx of | ceme |
| | pert | 98/3 - 98 9973 - 998 99/0 - 994 | 373 3 A/son | n gar/ 15% NE | -aud |
| | <u>5/2</u> " c | OV 100/ (2 6997 asing set at <u>/</u> th <u>/0/00</u> ' | 10,100 ' with _ | sx of | <u>Cinc</u> cen |

| TEXACO EXPLORATION AND PRODUC | CING INC. | | 9-11-91 |
|--------------------------------------------------------------|-----------------------------------------------|----------------------------------------|-------------------------------------------------------|
| ASE NM- STATE AT LEASE | WELL ha | LOCATION (/n/+ M | 15-14-33 |
| | | 860' FSL Status: 1 | and 660 FWL Active Produced Savaders Permo-Ponn |
| 17/2" | holo | <u>4/85</u> ' with | /600 sx of cer |
| pert 98 | 806 - 10 C | 015 A/9 | 9500 gpl 15% NE ocid |
| 0v +00 701 <u>5/2</u> " casing Total Depth <u>/</u> | / Q // 2 s set at <u>/0,</u> 0 //0 ' Ho | 1 st stage (" Stage C 160' with | cont w/ 1/00 5x5 cont w/ 900 5 x5 cinc sx of ce |

| ERATOR | TEXACO EXPLO | RATION AND PRODUCIN | G INC. | | 9-11-91 |
|--------|--------------|--------------------------------------------------------|------------------------------------|------------------------|------------------------------------------------------------|
| ASE | NM- STATE AT | LEASE | WELL Na 12 | Unit 6 | 15-14-33 |
| 7777 | | 7 | | Status: | med 1650' FEL ACTIVE Producer immoers Permo-Benn |
| | | 13% "CS6 | net Q | 5 ⁻ 25 ' w, | / 650 5x5 cut <u>Circ</u> |
| 4 | | • | | | 2000 SX OF CEME |
| | | 9768 9883 perf 9994 Spot | - 9833 - 9898 - 9999 CIBP | 3', 8', © 9950' | + 10' cmt. |
| | | 0/ +30/ @ 7000' 5½ " casing s Total Depth 100 | et at <u>/</u> | 0019' with _ | mto w/ 950 5xs mto w/ 1200 5xs <u>ciac</u> sx of cem |

| ERATOR | TEXACO EXPLOR | ATION AND PRODUCIN | G INC. | | 9-11-9 | 91 |
|--------|---------------|------------------------------------------------------|----------------------------|-------------------------------------|----------------------------------------------|----------------|
| ASE | NM- STATE AT | LEASE | WELL NO. | | 15-14-33 | |
| 777 | | | | 5 to tis ' | NL MID 660' ACTIVE PROPO SAVADEUS PERM | Ken |
| | | 13 3/3" CS6 17/2" 43 | | 525 w/ | 600 sxs cmt | Cinc |
| | | <u>18%</u> " casin Hole size <u>/2/4</u> | g set at | : <u>4166</u> wi ut cinc | th <u>ZZW</u> sx of | cemei |
| | | pert 9790 | 0 - 9 | 979' A | 8000 gpl 15, | J _o |
| | | $\frac{8V + \infty}{6994}$ $\frac{5}{2}$ " casing so | / 2^ set at <u>/</u> | st stage can stage can 10/00 with | 1to w/1000 SX 1to w/ 1200 S SX of _ | ceme |

| OPERATOR | TEXA | ACO EXPLORA | ATION AND F | RODUCING | INC. | | DATE | 911-91 | |
|----------|------|-------------|-----------------------------------------------|-----------------|----------------------------------------|---------------------------------------------------|----------------------------------|--------------------------------------|----------------------|
| LEASE | NM- | STATE AT | LEASE | · | WELL MA | Unit 0 | 15-14 | ·- 33 | |
| 7770 | П | MY" | • | | | 1060' FS | Artive | 1980' FE. - Producer 15 Permo- | |
| | | | /3 | CSG Se- hole | + (a) | 255 / 0 | mt w/ | 660 SXS | CIRC |
| 4 | | | | - , | set at | 4200 525'' W mt <u>Cin</u> | rith 600 | _ sx of | cement |
| | | | pert | 9786 - | -10002 | A/120 | no ga/ | 15% NE | KVD |
| | | | DV +50/ 700 <u>5/2</u> " 0 Total Dep | (| /5/ 2nd et at <u>/6</u> O ' H | Stage Cu Stage Cu 0,100' with ole size _ | 1to w/ to w/ 1 7 / 3 " | 950 5XS /200 SXS _sx of | <u>CIÀC</u> cemer |

| OPERATOR MANZAMO | Oil CORP | | | DATE 9-11-91 |
|-----------------------------|--------------------------------|------------------------------------------------------|------------------------------------------------|--------------------------------------------------------|
| LEASE LEA VE | State | WELL NO. LO | CATION P | 16-14-33 |
| 77 7 777 | 77 | | Status: 1 | and 330' Fel Active PROONCEL is Permo-Pana |
| | 113/4 "C56 143/4" , | | z' w/ 400 | sxs cmt. Cinc |
| | Hole size// | Cm | it circu | 1500 sx of ceme 6-5 @ 6200' |
| 6250 | Set | Collapse (50 tool C. NO 54 mod pull 2 stub | , Q 8408 | , 3 pump 100 SxS 9 6250 pump 160 |
| 8408 //// perts = 984 | S/2" (Sg 1st 2nd per 010 Hole: | set @ 1017 5tage cont stage cont f 9847 - 1 | 20' w/ 01 w/ 670 5 w/ 700 1 1984 A/25 | 1 + 00 @ 7515' 5x5 5x5 - Cmt circ 5 9m/ 50 _ sx of cer |

| OPERATO | | RATION AND PRODUCING | INC. | | 9-11-91 |
|---------|--------------|------------------------------------------------------|--------------------------------|----------------------------------------------|-----------------------------------------------------------------|
| LEASE | STATE AN LEA | SE | WELL Ma | | 22-14-33 |
| m | | 77 | | . | to med 660' FEL tetive produced Smaders Permo-Penn |
| 4 | | 103/4" CSG 1 hole siz€ | ret Q 15" | 369' w/ - | 475 400 SKS CMT CINC. |
| | | Hole size $\frac{9\frac{7}{3}}{3}$ | H | toc Cin | cement / 700 sx of cement / 200 sx of cement |
| | | perf 97: | 76 — 9 3 — 99 7 — 99 | 794 ⁹ 20 70 | |
| | | Top of Liner (a) 4/2 " casing se Total Depth 10001 | 2 397/ tat <u>//</u> 0_' Ho | Cut B Cut 7 2000' with _ le size _6 | strong (line w/ 250 SXS Cop of Lines w/ 100 SXS sx of cemer |

| R TEXACO EXPLORA | TION AND PRODU | JCING INC. | | 9-11-91 | |
|---------------------|------------------------------------------|------------------------|-----------------------------------------|---------------------------------------------------------|----|
| STATE AN LEASE | | WELL N | | 22-14-33 | |
| | • | | 1980' FN | Le med 660' FWL Letive produced Spinders Penno le | un |
| | 113/4 " 15" 4 | | @ 355 ⁻ l | u/ 300 5x5 Cin | _ |
| | <u>8 /8</u> " ca Hole size <u>/(</u> | asing set a | t <u>4120</u> ' wi TOC C 26 6 | th <u>500</u> sx of 8 50% efficiency | ce |
| | | | | | |
| | perf 97 perf 98 perf 99 | 190 - 979 1998 - 99 | 98 13 | | |
| | | | | //00 sx of | |

| PERATOR TEXACO EXPLORATION | AND PRODUCING | INC. | | 9-11-91 | |
|-------------------------------|-------------------------|-----------------|----------------------|-------------------------------------------------|----------------|
| EASE STATE AN LEASE | | WELL MA L | ccation Unit 0 2. | 2-14-33 | |
| | | | 660' FNL | and 660' Fw Active Moducer Sanders Reinic | |
| | 13% " C56 17½ " hole | | 500' cmt. | n w/ 600 5xs | Cinc |
| Ho1 | 3 | set at <u>\</u> | 490 with | <u> </u> | cement |
| pe | of 9792- | 797/ | | | |
| 5/ | DV tool@ | 7052' | <u>vo</u> ' with | cmto ~/ 900 cmto ~/ 1320 sx of | SKS CIRC cemen |

| ERATOR | | ATION AND PRODUCING | INC. | | 9-11-91 |
|--------|---------------|---------------------------------|-----------------|--------------------|-------------------------------------------|
| EASE | STATE AN LEAS | Ξ | WELL NO. | LICCATION UNIT 6 | 22-14-33 |
| | | | | | and 2303 FEL |
| | | | | • | |
| | | _ | | 5 | Active producex Annoles Permo-Penn |
| | | 33/6" C56 71/2" 40/E | | ? 525 c | mto w/ 650 SXS CIRC |
| | | 85/3 " casing Hole size 12/4 | | | <u>2000</u> sx of cemer |
| | | | | | |
| | | perf 9791 Dr tool @ | | | ge CMto w/ 950 5x5 ,e CMto w/ 1200 5x5 CA |
| | | $\frac{5/2}{2}$ casing se | et at <u>/0</u> | $\frac{1}{2}$ with | sx of cem |

| State J | Chanles B. | Gillespie. JR | | DATE 9- 11 - 91 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------|------------------------------------|----------------------------------------|
| 3 % " CSG @ 306" CMto w/ 250 SXS CIRC 17 1/2" hole 18 18 18 18 18 18 18 1 | State J | | | |
| 85/8 " casing set at 4/69" with 1500 sx of cemer Hole size 1/ " TOC by SURVEY @ 2036' Perf 9765 - 979/ 9808 - 9883 9914 - 9929 Top of Linea @ 4046' 592 top of Cina w/ 2005 5/2 " casting set at 9949" with 600 sx of cemer | | | 660' FWC Status: | Active Producer Sounders Permo-Perm |
| 8 " casing set at 4/69" with 1500 sx of cemer Hole size 1/ " TOC by Survey @ 2036' My 9765 - 979/ 9808 - 9883 9914 - 9929 Top of Linea @ 4046' 592 top of Cina w/ 2005 5/2 " casting set at 9949" with 600 sx of cem | | 777 | | |
| Hole size//_ " TOC by Sunyay @ 2036' perf 9765 - 979/ 9808 - 9883 99/4 - 9929 Top of Linea @ 4046' 592 top of Cinea w/ 2005 Linea | | 13% "CSG 17½" hole | 295, cmto: | w/ 250 5x5 Circ |
| 19765 - 979/ 9808 - 9883 9914 - 9929 Top of Linea @ 4046' Syz top of Cinea w/ 2005 Linea | | | | |
| 9914 - 9929 Top of Linea @ 4046' 592 top of cinea w/ 2005' Linea State 9949' with 600 sx of cerns | | Hole size <u>//</u> | TOC by 5. | nyey (d. 2036 |
| 99/4 - 9929 $790 g Linea @ 4046' 592 top g cinea w/ 2005$ Linea S/2 " casing set at 9949 ' with 600 sx of ceme | | | | |
| 5/2 " casing set at 9949 ' with 600 sx of ceme | | per 9765 - 9808 9914 - | - 979/ - 9883 - 9929 | |
| $\frac{5/2}{2}$ " casing set at $\frac{9949}{4}$ with $\frac{600}{2}$ sx of ceme | | | | _ |
| Total Depth 9950 ' Hole size $7\frac{2}{3}$ " | | 5/2 " casing ! | set at <u>9949</u> ' with <u>0</u> | <u>000</u> sx of ceme |

| OPERATOR JANALOS | В. | Gillespie JR | · | ····· | DATE 9-11-91 |
|------------------|----|----------------------------|----------------|--------------------------------------------------|----------------------------------------------------------|
| LEASE STATE | 7 | , , , , , , , | WELL NO. | unit D | 23-14-33 |
| 7770 | | | | 5 totos: | L + 660' FWC Active producer Saunders Permo - Venn |
| | | 133/3" CS6 17½" hole | |) 295 'w, | / 250 SXS <u>CIRC</u> |
| | | 8 % " casing Hole size _// | set at _" | <u>4154</u> with Toc 544 | 1500 sx ofcement |
| | | pg 9760 - pg 9857- | - 9804 9370 | | |
| | | Total Depth | ' Ho | // 185' with <u>6</u> ole size <u>77</u> 8 | |

FORM C - 108 cont.

Part III. A

1.) New Mexico 'AT' State No. 4
1980' FSL and 660' FEL
Sec. 15 - T145 - R33E
Unit I
Lea County, New Mexico

New Mexico 'AT' State No. 10 1650' FSL and 2305' FWL Sec. 15 - T14S - R33E Unit K Lea County, New Mexico

New Mexico 'AN' State No. 9 660' FNL and 1980' FWL Sec. 22 - T14S - R33E Unit C Lea County, New Mexico

New Mexico 'AN' State No. 7 660' FNL and 660' FEL Sec. 22 - T14S - R33E Unit A Lea County, New Mexico

- 2.) See attached wellbore schematic's.
- 3.) Propose to run 2 3/8" plastic coated tubing, and set at approximately 100' above top perf.
- 4.) Propose to run IPC Model R Packer as a seal, and load the backside with packer fluid.

Part III. B

- 1.) The injection interval is the Permo Upper Penn, and the wells are located in the Saunders Permo Upper Penn Field.
- 2.) The injection interval will be cased at approximately 9748' 9774'.
- 3.) These wells were originally drilled as producing wells.
- 4.) See wellbore schematic
- 5.) There is no deeper oil horizon or shallower oil producing zone in the immediate vicinity.

Part VII.

- 1.) The proposed daily injection will be 2000 bbls. per day. The maximum will be 2000 bbls. per day.
- 2.) The system will be closed.
- 3.) The average injection pressure will be O(Vacuum). The maximum will not exceed the limits set forth by the OCD.
- 4.) The source of the injection water will be from fresh water wells drilled on or near each injection well.
- 5.) The Saunders Permo Upper Penn is productive within one mile of the injection wells.

Part VIII

The injection interval is the Permo Upper Penn in the Saunders Permo Upper Penn Field, and is composed of alternating beds of red shale and porous limestone. The top of the Permo Penn section is the top of the Wolfcamp at approximately 9119'. This entire area is overlain by the Quaternary Alluvium and caliche. The fresh water in the area comes from the Ogalalla aquifer. There are no fresh water zones below the Saunders Permo Upper Penn section.

Part IX

The disposal interval will be treated with a breakdown acid job.

Part X

The logs have been submitted by Texaco.

Part XI

The water analysis for fresh water wells within one mile of the proposed injection wells are attached.

Part XII

We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.

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State
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K-4177 Pogo Prod CG-3360 F0 \$631 Yates Pet,etal 29- St. Serv. E-2426 ě SAMPLE (M.F. Lawiess, 3/4) OilLARCO ALR Sigmar Life 26:2 NM SI Ö • (Mobil) 0 è 0 <u>o</u>-Texoco TEXACO EXPLORATION AND PRODUCTION INC. SAMPLE 89560 N.M. STATE 'AN' AND 'AT' E-2115 LOCATION OF FRESH WATER WELLS SAMPLE , <u>\$</u> \$ 2.440 IN VICINITY OF THE John Etcheverry . S. E. Mini Yafes Pet, etal 3 - 1 - 93 LH - 2332 43 15 # "Chalupa-St"
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HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES MIDLAND DIVISION HOBBS, NEW MEXICO 88240

LABORATORY REPORT

| No. | 379 | |
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| To Texaco Explora | tion and Pro | duction Inc. | Date 09-17-91 | |
|------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--|
| Box 728 Hobbs, New Mex | ico 88240 | This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the | | |
| | | | course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company. | |
| Submitted by Mike Pie | erce | | Date Rec. 09-17-91 | |
| Soc Polow | | | Formation | |
| CountyLea | Field | Saunders | Source see below | |
| | Sample #1 | | west of Atlantic #3 ndmill to run Cl. count | |
| | Sample #2 | | East of N.M. AN #8 ndmill to run Cl count pl | |
| | Sample #3 | | e Old Hilborn Ranch House ter well (pump) to run Cl. pl | |
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| | | John Eubank Respectfully subm | itto d | |
| | | | | |
| Analyst: | | · | HALLIBURTON COMPANY | |
| CC: | | Ву | CHEMIST | |
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