

RELEASE 9-14.92

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August 25, 1992

New Mexico Oil Conservation Commission P. O. Box 2088

Santa Fe, New Mexico 87504-2088

Case 105 73

Attention: Ben Stone

Re: Application for Expansion of Waterflood; Orders R-2748/48A, 3889, 4521/22 & WFX-454

Texaco Exploration and Production Inc.

Rhodes Yates Unit, Rhodes B Fed NCT-1 - Rhodes Yates 7R

T-26-S, R-37-E, Lea County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. respectfully requests administrative approval for the expansion of the Rhodes Yates Unit and Rhodes B Fed NCT-1 (CO-OP). Two oil wells in the Unit and two oil wells on the Rhodes B NCT-1 will be converted to water injection. This work will help maintain reservoir pressure and recover additional oil reserves that would otherwise be left in place. This work will be done in conjunction with a workover program to develop additional Yates reserves. Five infill oil wells will also be drilled.

Texaco E&P Inc. respectfully requests that the Rhodes Yates Unit and the Rhodes B NCT-1 be expanded to include the conversion of four producing wells to water injection. Administration approval is requested so that the necessary operations can be advanced in a prudent manner.

Yours very truly,

Terry L. Frazier Hobbs Area Manager

TLF:rtm

attachments

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING **GANTA FE, NEW MEXICO 87501**

FORM C-108 W MEXICO 87501 105 73 10 N DIVISION Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I.	Purpose: Applicat	Secondary Recovery Pressure Maintenance Disposal Storage ion qualifies for administrative approval? yes no
II.	Operator:	Texaco Exploration & Production Inc.
	Address:	P.O. Box 730, Hobbs, New Mexico 88240
	Contact na	Terry L. Frazier, Area Manager

- Well data: Complete the data required on the reverse side of this form for each well III. proposed for injection. Additional sheets may be attached if necessary.
- no R-2748, 2748 A, 3889, X yes Is this an expansion of an existing project? IV. 4521, WFX-454, R-4522 If yes, give the Division order number authorizing the project
 - Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
 - Attach data on the proposed operation, including: VII.
 - Proposed average and maximum daily rate and volume of fluids to be injected;
 - Whether the system is open or closed; 2.
 - 3. Proposed average and maximum injection pressure;
 - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 - If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
 - Describe the proposed stimulation program, if any. IX.
- Attach appropriate logging and test data on the well. (If well logs have been filed Χ. with the Division they need not be resubmitted.)
- XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
 - XII. Applicants for disposal wells must make an affirmative statement that they 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.
- Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIII.
 - 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: Terry L. Frazier	Title Area Manager
Signature: fem fran	Date: 8/25/92

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. R-2748, 6-29-74; 2748A, 12-3-69; 3889, 12-2-69; 4521, 5-17-73;

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.

- 6. 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.

NEW MEXICO OIL CONSERVATION DIVISION - Form C-108, cont'd Summary of Details for Conversion of Wells to Water Injection

Rhodes Yates Unit - Rhodes Yates Seven Rivers

8 - Unit Letter E, 1875 FNL & 765 FWL, Section 27, T26S, R37E

13 - Unit Letter M, 660 FSL & 660 FWL, Section 27, T26S, R37E

W.H. Rhodes B Fed NCT-1 - Rhodes Yates Seven Rivers

6 - Unit Letter I, 1980 FSL & 660 FEL, Section 27, T26S, R37E

13 - Unit Letter O, 990 FSL & 1650 FEL, Section 27, T26S, R37E

- III. All pertinent well data is included on the well schematic sheets. Additional wells will eventually be converted as part of later phases of infill drilling. A braden head survey was run in April, 1991, on all unit and Co-op wells within the area of review. Survey sheets for the referenced wells are attached.
- V. A Lease map of wells within a 2 mile radius is attached. A 1/2 mile radius circle is drawn around the subject wells.
- VI. Data for sections VI, VIII, X and XI have been previously submitted under NMOCD Order R-2748 dated 6/29/64, R-2748A on 12/3/69, R-3889 on 12/2/69, R-4521 and 4522 on 5/17/73. Additional information was supplied on July 18, 1977 as part of the 1978 waterflood expansion application (WFX-454).

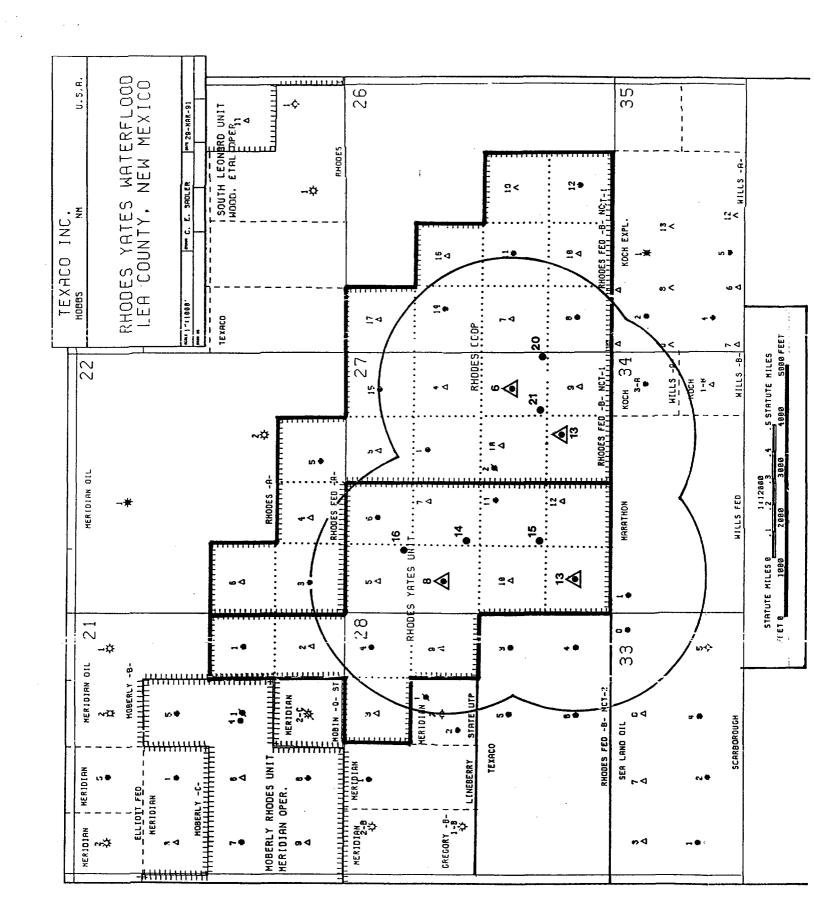
Rhodes Yates Unit #13 was drilled in 1978 and was the last well drilled in the area of review. Texaco will drill 5 infill wells in the last quarter of 1992. Two will be in the Co-op and three will be on the unit. The full plan of development has been discussed with the NMOCD in Hobbs and the BLM in Roswell, and both have given their approval. Construction details for the five infill wells are attached. However, the applications to drill have not been filed yet.

Four wells have been plugged within the leasehold area. Three were plugged before 1960 and information on these has previously been submitted in prior applications. Meridian Oil Inc's State UTP #1 was plugged 3-27-92 and a final plugging report is attached. Texaco E&P Inc's W.H. Rhodes B NCT-1 #2 will be plugged as soon as partner and Federal approval have been granted. The intent to plug is also attached.

NEW MEXICO OIL CONSERVATION DIVISION - Form C-108, cont'd Summary of Details for Conversion of Wells to Injection Status Rhodes Yates Unit, Rhodes B NCT-1 - Rhodes Yates Seven Rivers

- VII. Proposed average daily injection rate per well is 500 Bbls per day and anticipated maximum rate is 750 Bbls per day. Maximum pressure will not exceed 2000 psi system working pressure. The average injection pressure will not exceed 600 psi until a step rate test establishes a higher limit. The system will be closed.
- IX. As part of the overall infill drilling project, a workover program will be aimed at developing the middle Yates zone. Both producers and injectors will have some upper pay zones opened and stimulated. Net additional pay will average about 60' and will be hydraulically fracture treated. The injection well work will be centered around diverting a substantial part of the water into the middle zones that have not been developed across the leasehold.
- XII. Based on current geological and engineering data, there is no evidence of natural or artificially induced open faults within the unitized interval or above. There is no communication from the injection zone to any subsurface source of drinking water.
- XIII.A notarized copy of a "Proof of Notice" is included.

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FOOTAGE LOCATION: 1875 FNL X 765 FWL Sec./Twn/Rng: Unit E, Sec 27, T-26-S, R-37-E Lea County, New Mexico OPERATOR: Texaco Exploration & Production Inc. Lease: Rhodes Yates Unit #8 Former Amerada Petroleum Corp. State 'AJ' #2

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Seven Rivers

OPERATOR: Texaco Exploration & Production Inc. Lease: Rhodes Vates Unit #13

FOOTAGE LOCATION: 660 FSL X 660 FWL Sec./Twn/Rng: Unit M, Sec 27, T-26-S, R-37-E Lea County, New Mexico

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Tubing: 2-3/8", 4.7#, J-55, IPC 2000# WP

R-37-E 9# T-26-S, Rhodes B Fed NCT-1 Sec./Twn/Rng: Unit I, Sec 27, Lease: OPERATOR: Texaco Exploration & Production Inc. 660 FEL FOOTAGE LOCATION: 1980 FSL X

Lea County, New Mexico Former Texaco Rhodes 'B' #6

3048 ' to 3300 ' through: OH, Perforations SX. χ Χ SX. ' determined by <u>calculated</u> determined by calculated Comp. Date 8-11-44 Hole Size (Perfs to be added: 3048'-3150') 3162 Cemented with 300 1212 200 7-1/2" , 4-3/4" open hole Set at Set at Cemented with Cemented with Set at ' determined by TABULAR DATA Intermediate casing: Injection Interval: Size 5-1/2", 14# Production Casing: Size 8-5/8, 32# Surface Casing: Hole Size 11" Hole Size __ NONE 40 TOC 1660 Size _ Toc TOC 8-5/8", 32#, 200 sx, TOC @ 40', calc. 100% AD-1 Injection Packer T/ added Yates Perfs 5-1/2", 14#, 300 sx, TOC @ 1660, calc. 2987' GL (KB=11') 1262'-2780' OT HO 2922' 16256 SCHEMATIC

30487

3025'

3162'

33007

1212'

Gr

Tubing: 2-3/8", 4.7#, J-55, IPC 2000# WP

Seven Rivers

Yates

Salt

Tops:

R-37-E T-26-S Lease: Rhodes B Fed NCT-1 Sec./Twn/Rng: Unit: 0, Sec 27, OPERATOR: Texaco Exploration & Production Inc. 990 FSL X 1650 FEL FOOTAGE LOCATION:

Former Texas Company W. H. Rhodes 'B' #13

Lea County, New Mexico

TOC T/ added perfs (+/-) 5-1/2", 14#, 300 sx, TOC @ 1530, calc. 80% AD-1 Injection Packer 8-5/8", 28#, 350 sx, cement circulated 2973' GL (KB=11') OH TD SCHEMATIC 3050' 3167' 11967 3000, 3327' Gr

Tops:

Salt 1255'-2828' Yates 2950' Seven Rivers NR

SX. SX. Cemented with 300 sx. ' determined by <u>calculated</u> determined by <u>calculated</u> Comp. Date 7-26-45 Hole Size (Perfs to be added: 3050'-3150') 1212 350 7-7/8" , 4-3/4" open hole Set at Set at Cemented with Set at Cemented with ' determined by TABULAR DATA Intermediate casing: Injection Interval: Production Casing: Size 5-1/2", 14# Size 8-5/8, 28# Surface Casing: Hole Size 11" TOC surface Hole Size __ NONE TOC 1530 Size

3050 'to 3327 'through: OH, Perforations Tubing: 2-3/8", 4.7#, J-55, IPC 2000# WP

RHODES-YATES POOL (Texaco - Yates and Seven Rivers Waterflood) Lea County, New Mexico

Order No. R-2748, Authorizing Texaco Inc. to Institute a Waterflood Project in the Yates and Seven Rivers Formations in the Rhodes-Yates Pool, Lea County, New Mexico, July 29, 1964.

Application of Texaco Inc. for a Waterflood Project, Lea County, New Mexico.

CASE NO. 3086 Order No. R-2748

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on July 22, 1964, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 29th day of July, 1964, 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

30%

- (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, Texaco Inc., seeks permission to institute a waterflood project in the Rhodes Yates Oil Pool by the injection of water into the Yates and Seven Rivers formations through two injection wells in Section 26, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Texaco Inc., is hereby authorized to institute a waterflood project in the Rhodes Yates Oil Pool by the injection of water into the Yates and Seven Rivers formations through the following-described wells in Section 26, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico:
 - W. H. Rhodes "b" (NCT-1) Well No. 7, Unit L W. H. Rhodes "b" (NCT-1) Well No. 10, Unit N
- (2) That the subject waterflood project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1119 of the Commission Rules and Regulations.
- (4) That jurisdiction 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.

(PEARL-QUEEN (NORTHEAST PEARL QUEEN UNIT AREA WATERFLOOD EXPANSION) POOL - Cont'd.)

(4) That jurisdiction 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.

RHODES-YATES POOL (Texaco - Yates and Seven Rivers Waterflood Expansion) Lea County, New Mexico

Order No. R-2745-A, Authorizing Texaco Inc. to Expand the Waterflood Project in the Yates and Seven Rivers Formations in the Rhodes-Yates Pool, Lea County, New Mexico, December 3, 1969.

Application of Texaco Inc. for a Waterflood Expansion and Amendment of Order No. R-2748, Lea County, New Mexico.

> **CASE NO. 4271** Order No. R-2748-A

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on November 25, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 3rd day of December, 1969, 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,

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the sub-That due public notice having been given as required by ject matter thereof.
- (2) That the applicant, Texaco Inc., is the operator of the Texaco Rhodes "B" Federal Waterflood Project in the Rhodes (Yates-Seven Rivers) Pool, Lea County, New Mexico, approved by Commission Order No. R-2748.
- That the applicant now seeks authority to expand said waterflood project by the injection of water into the Yates and Seven Rivers formations through three additional wells in Units B, H, and P of Section 27, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.
- (4) That the applicant further seeks to institute an additional waterflood project in said pool by the injection of water into the Yates and Seven Rivers formations through one well located

in Unit N of Section 22 of said Township and Range.

- That the wells in the project areas are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (6) That the proposed expansion of the Rhodes "B" Federal Waterflood Project authorized by said Order No. R-2748 and the institution of the proposed new waterflood project should result in the recovery of otherwise unrecoverable oil, thereby prevent-
- That the applicant further seeks the establishment of an administrative procedure whereby said projects could be expanded to include additional lands and injection wells in the area of said projects as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.
- (8) That the subject application should be approved and the projects should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided, however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to expand its Rhodes 'B' Federal Waterflood Project in the Rhodes (Yates-Seven Rivers) Pool, authorized by Order No. R-2748, by the injection of water into the Yates and Seven Rivers formations through the following-described three additional wells in Section 27, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico:

W. H. Rhodes 'b'' (NCT-1) Well No. 5 located in Unit B W. H. Rhodes 'b'' (NCT-1) Well No. 4 located in Unit H W. H. Rhodes "B" (NCT-1) Well No. 9 located in Unit P

- (2) That the applicant, Texaco Inc., is hereby authorized to institute a waterflood project in the Rhodes (Yates-Seven Rivers) Pool, to be designated the Texaco Rhodes "A" Federal Waterflood Project, by the injection of water into the Yates and Seven Rivers formations through its W. H. Rhodes "A" Federal Well No. 4 located in Unit N of Section 22, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the subject waterflood projects shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations:

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the above-described waterflood projects to include such additional lands and injection wells in the area of said projects as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

That jurisdiction 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.

RHODES (YATES-SEVEN RIVERS) POOL (Texaco State "JD" Rhodes Waterflood) Lea County, New Mexico

Order No. R-3889, Authorizing Texaco Inc. to Institute a Waterflood Project in its State "JD" Unit Area, Rhodes (Yates-Seven Rivers) Pool, Lea County, New Mexico, December 2, 1969.

Application of Texaco Inc. for a Waterflood Project, Lea County, New Mexico.

CASE NO. 4269 Order No. R-3889

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on November 25, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOw, on this 2nd day of December, 1969, 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, Texaco Inc., seeks permission to institute a waterflood project in its State "JD" Unit Area, Rhodes (Yates-Seven Rivers) Pool, by the injection of water into the Yates-Seven Rivers formations through two injection wells located in Unit D and Unit F of Section 27, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in the area of the said project as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.
- (4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

- (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to institute a waterflood project in its State "JD" Unit Area, Rhodes (Yates-Seven Rivers) Pool, by the injection of water into the Yates-Seven Rivers formations through the following-described wells in Section 27, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico:

Texaco New Mexico "AD" State Well No. 2 located in Unit D

Amerada New Mexico "JA" State Well No. 1 located in Unit F

(2) That the subject waterflood project is hereby designated the Texaco State "JD" Rhodes Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, That the Secretary-Director of the Commission may approve expansion of the Texaco State "JD" Rhodes Waterflood Project to include such additional lands and injection wells in the area of the project as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction 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.

- (2) That injection into each of the aforesaid wells shall be through 2-3/8-inch plastic-lined tubing set in a packer located as near as practicable to the uppermost casing perforation; that the casing-tubing annulus shall be loaded with an inert liquid and equipped with a pressure gauge at the surface.
- (3) That the subject waterflood project is hereby designated the Tamarack Bronco Wolfcamp Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (4) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (5) That jurisdiction 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.

RHODES-YATES POOL (Texaco Rhodes-Yates Waterflood) Lea County, New Mexico

Order No. R-4521, Authorizing Texaco Inc. to Institute the Rhodes-Yates Waterflood Project in the Yates-Seven Rivers Formations in the Rhodes-Yates Pool, Lea County, New Mexico, May 17, 1973.

Application of Texaco Inc. for a Waterflood Project, Lea County, New Mexico.

> **CASE NO. 4936** Order No. R-4521

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on April 11, 1973, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 17th day of May, 1973, 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,

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

(RHODES-YATES (TEXACO RHODES-YATES WATERFLOOD) POOL - Cont'd.)

R. W. Byram & Co., - Nov., 1990

- (2) That the applicant, Texaco Inc., seeks authority to institute a waterflood project in the Rhodes Yates Unit Area, Rhodes-Yates Pool, by the injection of water into the Yates-Seven Rivers formations through seven injection wells in Sections 21, 27, and 28, Township 26 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper"
- (4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:
(1) That the applicant, Texace Inc., is hereby authorized to institute a waterflood project in the Rhodes Yates Unit Area, Rhodes-Yates Pool, by the injection of water into the Yates-Seven Rivers formations through the following-described seven wells in Township 26 South, Range 37 East, NMPM, Lea County, New Mexico:

Lease	Well No.	Location
State "JD" Unit	2	660' FNL and 660' FWL,Sec. 27
State "JD" Unit	4	650' FNL and 2310' FWL, Sec. 27
N. M. "AD" State	1	660' FNL and 1980' FWL, Sec. 28
Morris	2	1980' FNL and 660' FWL, Sec. 27
Morris	3	990' FSL and 2970' FEL,Sec. 27 1980' FNL and 660' FEL,Sec. 28
State "A" 28	1	1980' FNL and 660' FEL.Sec. 28
H. G. Moberly "C" (NCT-2)	3	660' FSL and 660' FEL, Sec. 21

- (2) That injection into each of said wells shall be through (2) That injection into each of said wells shall be through internally plastic-coated tubing set in a packer which shall be located as near as is practicable to the uppermost perforation, or in the case of open-hole completions, as near as is practicable to the casing-shoe; that the casing-tubing annulus of each injection well shall be loaded with an inert fluid and equipped with a pressure gauge at the surface.
- (3) That the subject waterflood project is hereby designated the Texaco Rhodes-Yates Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (4) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (5) That jurisdiction 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.

RHODES YATES UNIT (Formerly State "JD" Unit) Lea County, New Mexico

Order No. R-4522, Cancelling the State "JD" Unit Agreement and Approving the Rhodes Yates Unit Agreement, Lea County, New Mexico, May 17, 1973.

Application of Texaco Inc. for Approval of the Rhodes Yates Unit Agreement, Lea County, New Mexico.

> **CASE NO. 4935** Order No. R-4522

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on April 11, 1973, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 17th day of May, 1973, 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,

(42)

- (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, Texaco Inc., seeks the dissolution of the State "JD" Unit Area approved by Commission Order No. R-3886, and seeks the approval of a new unit area as described by the Rhodes Yates Unit Agreement covering 520 acres, more or less, of State and Federal lands described as follows:

LEA COUNTY, NEW MEXICO TOWNSHIP 26 SOUTH, RANGE 37 EAST, NMPM Section 21: E/2 SE/4 Section 22: W/2

Section 28: N/2 NE/4 and SE/4 NE/4

- (3) That approval of the proposed unit agreement should promote the prevention of waste and the protection of correlative rights within the unit area.
- IT IS THEREFORE ORDERED:
 (1) That the State "JD" Unit Area, approved by Commission Order No. R-3886, is hereby cancelled and that a new unit designated the Rhodes Yates Unit Agreement is hereby approved.
- (2) That the plan contained in said unit agreement for the development and operation of the unit area is hereby approved in principle as a proper conservation measure; provided however, that notwithstanding any of the provisions contained in said unit agreement, this approval shall not be considered as waiving or relinquishing, in any manner, any right, duty, or obligation which is now, or may hereafter be, vested in the Commission to supervise and control operations for the exploration and development of any lands committed to the unit and production of oil or gas therefrom.
- (3) That the unit operator shall file with the Commission an executed original or executed counterpart of the unit agreement within 30 days after the effective date thereof; that in the event of subsequent joinder by any party or expansion or con-traction of the unit area, the unit operator shall file with the Commission within 30 days thereafter counterparts of the unit agreement reflecting the subscription of those interests having joined or ratified.

- (4) That this order shall become effective upon the approval of said unit agreement by the Commissioner of Public Lands for the State of New Mexico and the Director of the United States Geological Survey; that this order shall terminate ipso facto upon the termination of said unit agreement; and that the last unit operator shall notify the Commission immediately in writing of such termination.
- (5) That jurisdiction 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.

NORTHEAST PEARL-QUEEN UNIT Lea County, New Mexico

Order No. R-3836, Approving the Northeast Pearl-Queen Unit Agreement, Lea County, New Mexico, September 12, 1969.

Application of Tamarack Petroleum Company, Inc., for Approval of the Northeast Pearl-Queen Unit Agreement, Lea County, New Mexico.

> **CASE NO. 4216** Order No. R-3836

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on September 10, 1969, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of September, 1969, 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,

- (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, Tamarack Petroleum Company, Inc., seeks approval of the Northeast Pearl-Queen Unit Agreement covering 920 acres, more or less, of State and Fee lands described as follows:

LEA COUNTY, NEW MEXICO
TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM
Section 15: E/2 SW/4, W/2 SE/4, and
SE/4 SE/4

Section 22:

Section 23:

E/2 NE/4 N/2 and N/2 S/2 NW/4 SW/4, W/2 NW/4, and NE/4 NW/4 Section 24:

APPLICATION OF TEXACO, INC.
TO EXPAND ITS RHODES "B"
FEDERAL WATER FLOOD PROJECT
IN THE RHODES POOL IN LEA COUNTY,
NEW MEXICO

Rhodes Coop.

ORDER WFX NO. 454

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION COMMISSION

Under the provisions of Order Nos. R-2748 and R-2748-A, Texaco, Inc. made application to the Commission on July 18, 1977, for permission to expand its Rhodes "B" Federal Water Flood Project in the Rhodes Pool in Lea County, New Mexico.

NOW, on this 2nd day of August, 1977, the Secretary-Director finds:

- 1. That application has been filed in due form.
- 2. That satisfactory information has been provided that all offset operators have been maky notified of the application.
- 3. That no objection has been received within the waiting period as prescribed by Order No. R-2748.
- 4. That the proposed injection wells are eligible for conversion to water injection under the terms of Order Nos. R-2748 and R-2748-A.
- 5. That the proposed expansion of the above-referenced water flood project will not cause waste nor impair correlative rights.
 - 6. That the application should be approved.

IT IS THEREFORE ORDERED:

That the applicant, Texaco, In. be and the same is hereby authorized to inject water into the Yates formation through plastic-lined tubing set in packers at approximately 3107, 3123 and 3109 feet respectively in the following described wells for purposes of secondary recovery, to wit:

W. H. Rhodes "B" Federal NCT-1 Well No. 16 in Unit F;

W. H. Rhodes "B" Federal NCT-1 Well No. 17 in Unit D; and

W. H. Rhodes "B" Federal NCT-1 Well No. 19 in Unit J;

all in Section 26, Township 26 South, Range 37 East, Lea County, New Mexico,

IT IS FURTHER ORDERED:

That the operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface;

That the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer. That injection pressures shall be limited to 640 pounds per square inch as 2.10 measured at the surface.

RETURN TO

That the operator shall notify the supervisor of the Commission's llobbs District Office before injection is commenced through said we Twenty

565 411 WRIT-8/11

Copy to SAH_

JAS
DSS 4
LL
REL
JWB 8-10

ORIGINAL RHODES YATES UNIT WELL NAMES and OPERATORS

RYU_#:	LOC:	Original Name	and Operator:
1 2	21,I 21,P	Texaco Texaco	H.G. Moberly C NCT-2 #3 H.G. Moberly C NCT-2 #3
3 4 5	•	Texaco Texaco Texaco	NM State 'AD' #1 Rhodes Yates Unit #4 NM State 'AD' #2
6 7 8	27,F	Amerada Amerada Amerada	State 'JA' #1 State 'JA' #4 State 'JA' #3
9 10 11 12	28,H 27,L 27,K 27,N	Texas Pacific	Morris #2 Morris #1
13	27,M	Texaco	Rhodes Yates Unit #13

NEW MEXICO DIL CONSERVATION DIVISION CASING--BRADENHEAD TEST

OPERATOR: LEASE: POOL: FOOTAGE FOOTAGE ORDER NO.	RHODES \ RHODES \ 1875-N 765-W	YATES UN YATES SECTI PRESS	ON LMT		27	TYPE LEASE DATE INJ.	ES	26 .	WELL # E S RAN TYPE WE	IGE :	8 37	E P
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NEW MEXICO OIL CONSERVATION DIVISION CASING--BRADENHEAD TEST

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NEW MEXICO DIL CONSERVATION DIVISION CASING--BRADENHEAD TEST

LEASE: POOL: FOOTAGE FOOTAGE ORDER NO.	660-E	ES "B" FED FES SECTION PRESS LMT	. 27	TWN TYPE LEASE DATE INJ. I	UNIT LTR N 26 F BEGAN	WELL # 6 I S RANGE 37 E TYPE WELL P
TEST DATE OPERATOR CASING	Ξ.	TEST TYPE SET AT	•	PASS/FAIL OCD REP: . CEMENTED 200SX	PRESSURE	
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NEW MEXICO OIL CONSERVATION DIVISION CASING--BRADENHEAD TEST

LEASE: POOL: FOOTAGE FOOTAGE ORDER NO.	TEXACO INC W.H. RHODE RHODES YAT 990-8 1650-E	S "B" ES SECTION PRESS	DN LMT	•	27	TYPE LEADATE INJ	TWN 1SE 1. B	F EGAN	26	S RANGE TYPE WELL •	37	E P
TEST DATE	REP: SIZE	TEST SET	TYPE AT	TOP	CMT	PASS/FAI	(L. 1 -	•				
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Obecapher 198	DEPARTME	NT OF THE INTERIOR	Budget Bureau No. 1004-0135 Expires: September 30, 1990
	BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No. LC-030174 b
_		AND REPORTS ON-WELLS	6. If Indian. Allorice or Tribe Name
Do not u	se this form for proposals to d Use "APPLICATION FO	dll or to deepen or reentry to a different reservo	и.
	SUBMI	T IN TRIPLICATE	7. If Unit or CA. Agreement Designation
1. Type of We			
V Well 2. Name of Op	☐ Gas ☐ Other		8. Well Name and No. W.H. Rhodes B NCT-1 #2
•	aco Exploration & Produ	ection Inc.	9. API Well No.
3. Address and	Telephone No.		30 - 025 - 12060 10. Field and Pool, or Exploratory Area
P.O 4. Location of	. Box 730, Hobbs, NM Well (Footage, Sec., T., R., M., or Survey I	88241-0730 (505) 393-7191 Description)	Rhodes Yates
	70 FNL, 2310 FEL		11. Councy or Parish, State
	it J, Sec. 27, T-26-S,	R-37-E	Lea County, NM
		(s) TO INDICATE NATURE OF NOTICE, REP	ORT. OR OTHER DATA
	TYPE OF SUBMISSION	TYPE OF ACTIO	
	Notice of latent	Abandonment	Change of Plans
	ms torice of latent	Recompletion	New Construction
[Subsequent Report	Plugging Back	Non-Routine Fracturing Water Shut-Off
(Final Abandonment Notice	Casing Repair Altering Casing	Conversion to Injection
		Other (Note: Report resul	ts of multiple completion on Well Completion or
13 Decembe Dec	naced as Completed Completes (Clearly state)	Recompletion Repo Il pertinent details, and give pertinent dates, including estimated date of sta	ert and Log form.)
give sut	osurface locations and measured and true verti	cal depths for all markers and zones pertinent to this work.1°	any proposes worm it was a amountary express
1)	Inform BLM 24 hour	s prior to commencement of plug	ging. Calean hole to TD. Tag
2)		Run bit and casing scraper and /2" packer and test CIBP for po	issible leak. Fun.
3)		oma ciku nu wireline. Peli z su	INCESE HOTES WE THE
4)	merr/ atring	and tag CTRP. Load hole With S	sail der mud, for brine
_	- 3 05# wal/ Dbl	Pump 100', 15 sx class 'C' ceme ion through squeeze perfs and	sur ou cop or crar.
5)	Establish circulat	djust volumes if needed. Fill c	asing from 1284'- 1105'
	with at an asmort	WOC TAK DING, SPOT 12 SX IFOR	I TOO -SULTACE.
6)	DOU Fill annulus	and casing from surface with I.	. Cubille it hecesseri.
7)	Cut off wellhead a	nd install marker. Clean locati	lon.
8)	Restore surface as	per Federal requirements.	
	tify thugthe foregoing by true and correct	Tide Production Engineer	Date 8-20-92
Signed	for Federal or State office use)	Title	Date 8 00 12
Approved by	/	Tide	Datc
Conditions o	f approval, if any:		
74.10.00	Coming 1001 makes in the Committee of th		
1 THE 15 U.S.L.	Section 1991 - Brakes & a crime for any person	knowingly and-willfully to make to any department or agency of the Uni	acu states any faise, lictitious or fraudulent statements

2. 20. 2

WELL DATA SHEET

OPERATOR: Texaco Exploration & Production Inc. Lease: W.H. Rhodes B Fed NCT-1 #2 FOOTAGE LOCATION: 2970 FNL X 2310 FEL Sec./Twn/Rng: Unit J. Sec 27, T-26-S, R-37-E Classified TA on 4-12-84; CIBP set at 3000'. Lea County, New Mexico TABULAR DATA SCHEMATIC (C) (in Surface Casing: Set at ____1234' 2988' GL Size 7-5/8, 26.4# Cemented with ___ 450 __sx. (KB=9') TOC <u>surface</u> ' determined by <u>circulation</u> Hole Size 9-5/8" Comp. Date 8-23-40 1234 7-5/8", 26.4#, 450 sx, Cement Circ. Intermediate casing: Set at _____ Size NONE Cemented with TOC ______ ' determined by ____ TOC 2936' CIBP, no cement 5-1/2", 14#, 125 sx, TOC @ 2936', temp. 3000' Hole Size ___ 3077 Set at ____3077'___ Production Casing: Size 5-1/2", 14# Cemented with 125 sx. 4-1/2" liner stub, 32751 26' fragment TOC 2936 ' determined by Temp log Hole Size ___6-3/4" Tops: Open Hole Interval: 1155'-2850' Salt <u>3077</u>' to <u>3275</u>' Size <u>???</u> Yates 2960**′** Seven Rivers 3183' Nitro Shot 500 Ots SOWE #1, 3130' - 3275' Queen NR PO-113 PLUG AND ABANDON DATA (5/91)OPERATOR: Texaco Exploration & Production Inc. Lease: W.H. Rhodes B Fed NCT-1 #2 FOOTAGE LOCATION: 2970 FNL X 2310 FEL Sec./Twn/Rng: Unit J, Sec 27, T-26-S, R-37-E Failed MIT on 4-25-91, 70 psig on casing. Lea County, New Mexico SCHEMATIC PLUGGING DATA Surface Plug: Size 100'-surf. Cemented with 12 sx. 100'-surface, Squeeze annulus with 110 sx to surface. 12 sx plug Class 'C' Cement, 1.32 cu ft/ sx 1234' 1105'-1284', 24 sx plug Intermediate Plug(s): Size 1284'-1105' Cemented with 24 sx. Class 'C' cement, 1.32 cu ft/ sx CIBP, add 100' cement, Intermediate plug covers t/ salt and shoe. Lower plug covers b/ salt and open hole. 15 sx 3077' Producing Zone Plugs:

Size CIBP, 100' Cemented with 15 sx.

3275

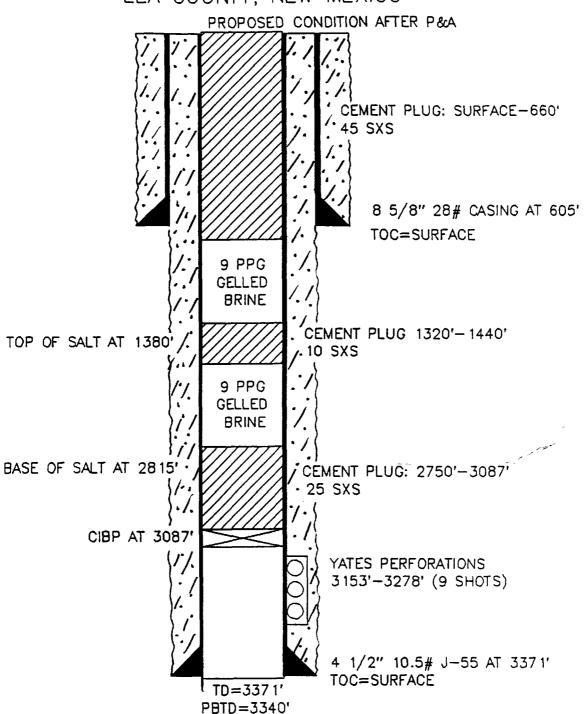
Submit 3 Copies to Appropriate	State of New Energy, Minerals and Natural		Form C-103 Revised 1-1-89
District Office DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION DIVISION P.O. Box 2088		WELL API NO.
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexic		30-025-25492 5. Indicate Type of Lease
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			STATE X FEE 6. State Oil & Gas Lesse No.
(DO NOT USE THIS FORM FOR PRODIFFERENT RESERVICED (FORM C	CES AND REPORTS ON W POSALS TO DRILL OR TO DEEP WOIR. USE "APPLICATION FOR 101) FOR SUCH PROPOSALS.)	EN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name State "UTP"
1. Type of Well: OIL X CAS WELL X	ОПЕЯ		Clate DIP
Name of Operator Meridian Oil Inc			8. Well No.
3. Address of Operator P.O. Box 51810, Midland	. TX 79710-1810		9. Pool name or Wildcat Rhodes (Yates, 7 Rivers)
			1650 Feet From The East Line
Section 28	77777X	Range 37E her DF, RKB, RT, GR, etc.)	NMPM Lea County
II. Check A	2966' GR Appropriate Box to Indica FENTION TO:		Report, or Other Data SSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLIN	
PULL OR ALTER CASING OTHER:	٢	CASING TEST AND C	EMENT JOB
	tions (Clearly state all pertinent detail.		uding estimated date of starting any proposed
@ 3087', 25 sx s @	'. MIRU Halliburton. Mix & 1440', 60 sxs @ 660' and ig. RDMOPU. Cut off wellho	d 5 sxs @ surface (10	e w/ salt gel., spot 25 sxs cmt plug 05 sxs premium plus w/ 2% ker on well.
I hereby certify that the information above is tru		and bolief. Production Ass	st 04/06/92
SIGNATURE 1101 SCho	<u> </u>	TIME _ 1 TOURGEON ASS	DATE 04/00/92

OIL & GAS INCRECTOR

APR 28'92

MERIDIAN OIL

STATE UTP NO. 1 RHODES (OIL) FIELD LEA COUNTY, NEW MEXICO



.ease Name:	RHODES Y	ATES UNIT	Well	No.: 14	Form M-31A (4-
County:	LEA	St	ate:	NEW MEXICO	Pag .ine 330
CATSTICH RAIL				cement	
Unit E Sec.			_		00' FNL, 1475' FWL
					Remarks
0 - 1150	FRESH	8.4	28		CIRC RESERVE,PH 9-10 W/LIME CIRC RESERVE,PH 9-10 W/LIME
1150 - 3400	BRINE	10.0	30-32		MUD UP IN STEEL PITS IF HOLE
TARCH/PAPER/FIBER	/MIN TISEAL F	OR SEEPAGE	WHILE DRIL		ICTATE. DIVISION APPROVAL REQUIRES
					ses, when circulating reserve
		ſ	CASING	PROGRAM	
	NOTE: P	IPE TO END	UP IN HOL	E FROM TOP TO BO	TTOM AS SHOWN
NDUCTOR PIPE					
Holc Size 10 Set 13.375 " C	Being B	40	1	Hole Size_	
40' 13.375. 48#. W	-40 STC CEN	MENT WITH RE	ADY-MIX	Set	" Casing @
CHAIN PIPE WHILE DR	-			TOL 6	
Pressure Test REQ'D DEPTH	mir	ps.	1		
RFACE CASING					
Hole Size 12	.25 H	್ ಕೃತ್ತಿ -	e ·	Pressure T	estmin @psi
Set <u> </u>				PRODUCTION	CASING
4TH JOINT TO SURF.				Hole Size	7.875
Pressure Test	_30_ mlr	0 1500 ps	1	Set5.5_ TOL 0	_
REQ'D DEPTH		BY_		3400' 5.5, 15.0	5# WC-50, LTC
Hole Size	11			CENT BTM 5 & I	EVERY OTHER JT TO 2900'
Hole Size C	asing @		1		
				Pressure 1	est 30 min @ 3000 psi
Pressure Test	mır	a ps	1		
				VG PROGRAM	
URFACE CASING	;	ـــ Min. WOC	Time	12 Hours	Pump Rate 10 B/M
Pump Time 12	20 <u>Min</u> @	70	_°F BHST	725 SX CLASS 'C' \	WITH 2% GEL, 2% CACL(14.1PPG,
					SX, 6.3 GAL/SX) 300% gauge hole
					Pump RateB/M
Pump Time	Min. e		_°F BHST		
RODUCTION CAS	TNG .	Win Woo	mi	40 %	D
Minimum Pump	Time 150	Min. 6	100 °F	BHST 400 SX 35	Pump Rate8_B/M /65 POZ 'H'
WITH 6% GEL. 5% SA (15.6 PPG, 1.19 CUI	<u>LT25#/SX</u>	FC (12.8 PPG	1.87 CUF	T/SX. 9.9 GAL/SX).	TAIL 250 SX CL 'H'. 2%CACL
CEMENT VOLUME BA			IN OH AND	13% EXCESS IN CSG	ANNULUS
•					
Minimum Pump	Time	Min. WOC Min. @	Time	Hours	Pump RateB/M
				<i></i>	
					· · · · · · · · · · · · · · · · · · ·
REMARKS:					
1. THREADLOCK BOT 2. H2S AND PVT EQU					BTM 500' OF 5.5 IN
- DAY MID PYT EGG		- VELINALIMINA	- FINON TO	PINEERIN VVI 0.020	AUAP
					TEMP SURVEY. RUN 1 INCH
_AND CEMENT WITH					SS 'C', 2% CACL)
REGULATO	RY REQUIRES	<u>ents</u>			
				INDUCATI	
Exception to SWI	R 13 (A)(1)	Required:		APPROVAL	Pm. 1 . 2.1 a
H 9 Required:		-		DYV DD	C FUC MAN 8-18-02
-	R 11 (D)(3)	-		DYV DD	Rnn. 1212

Lease Name:	RHODES YA	TES UNIT	Well	No.: 16	Form M-31A (4-91
County:	LEA	St	ate:	NEW MEXICO	Page
Deviation Ru	les: Dista	nce to	the Nea		
		Allowed	Displa	cement	329
1250 FNL, 130	O' FWL		MUD P	ROGRAM Unit	D, Sec 27, T-26S, R-37
Depth	Type	Weight	Visc	Water Loss	Remarks
1140	FRESH	8.4	28		CIRC RESERVE,PH 9-10 W/LIME
1140 - 3400	BRINE	10.0	<u> 30–32</u>	20 CC	CIRC RESERVE.PH 9-10 W/LIME
					MUD UP IN STEEL PITS IF HOLE
STARCH/PAPER/FIBE Circulate steel				LING IF NEEDED.	Ses, when circulating reserve
		-		PROGRAM	
		E TO END	UP IN HOL	E FROM TOP TO BOT	TTOM AS SHOWN
CONDUCTOR PIP					
Hole Size			_	Hole Size_	*
Set <u>13.375</u>				Set	" Casing @
40' 13.375. 48#. \			ADY-MIX	TOL @	1
CHAIN PIPE WHILE					
Proscure Tes					
REQ'D DEPTH_		BY_			
SURFACE CASIN			•	·	
Hole Size			_	Pressure T	estmin @psi
Set <u>8.625</u> "	Casing @	1140	•	PRODUCTION	CASING
1140' 8.625, 24#.	WC-50 STC CEN	T BTM 3 & E	VERY		
4TH JOINT TO SURF	NO CENT ABOV	E LOSS CIRC	ZONE	Hole Size	7.875 **
Pressure Tes	t 00 min	04500 50		Set5.5	_" Casing @ 3400 '
REQ'D DEPTH_	c 30 mil	6 1900 be	L	TOL @	
KEQ D DEFIN_				3400' 5.5, 15.5	
Wala Giaa	**			CENI BIM 5 & E	VERY OTHER JT TO 2900'
Hole Size	 "		•		
set"	casing e		•	Processes M	oot 20 -1- 0 20001
				Fresbure 1	est <u>30 min @ 3000</u> psi
	120 Min. 0 B GAL/SX) FB 22	70 25 SX CL C, 1	°F BHST 2% CACL (1	725 SX CLASS 'C' W 4.8PPG, 1.32CUFT/S	Pump Rate 10 B/M VITH 2% GEL, 2% CACL(14.1PPG, 5X, 6.3 GAL/SX) 300% gauge hole Pump Rate B/M
Pump Time				<u>.</u>	Pump RateB/M
			_ F BRST		
				·	
PRODUCTION CA	SING M	in. WOC	Time	18Hours	Pump Rate <u>8</u> B/M 65 POZ 'H'
william hamb	Time 210	min. @	100 F	BHST 400 SX 35/	55 POZ 'H'
(15.6 PPG. 1.19 C	HET/SY KOGAL	<u>v (12.5 PPG</u> /SY	. 1.67 CUF	113Y 8'A RWT\2X)	TAIL 250 SX CL 'H'. 2%CACL
			IN OH AND	13% EXCESS IN CSG	ANNI II LIS
VEMENT TULUME	WALT ALL SILL LAY	E PLUS 3VA	HT OT AND	INVERVESS IN COR	ANITY LV3
		in Woo	mi-	***	Premis Date -
Minimum Passes	M . miw	TU. MOC	1.1WG	Hours	Pump RateB/M
HIHIMUM PUMP	TIME	wru. 6	F	визт	
		 -			
		· · · · · · · · · · · · · · · · · · ·			
90 944 PE 95 95					
REMARKS:			4100 444 -		TH FOOL OF T 7 T
					STM 500' OF 5,5 IN
2. H2S AND PVT E	SUIPMENT TO BE	OPERATIONAL	PRIOR TO	DRILLING OUT 8.625	SHOE.
					TEMP SURVEY. RUN 1 INCH
					S 'C'. 2% CACL)
4. IF CMT DOES NO	CIRC ON PROD	CSG. WOC 8	HIKS AND R	UN TEMP SURVEY.	
REGULAT	ORY REQUIREME	NTS_			
				<u>APPROVAL</u>	:
Exception to S	WR 13 (A)(1)	Required:			
H 9 Required:		_		DIV. DRL	G. ENG. 1997118-18-92 G. OPR. MGR. KSH 8 18 92
Compliance w/S		Required:		DIV. DRL	G. OPR. MGR. KSH 8/18/92
Rule 37 Requir	ed:			E-11 - 11	011

DIV. DRLG. MGR.

Lease Name:	RHODES YATES UNIT	Well	No .: _	15	Form M-31A (4-91)
County:	LEA Sta	ate:	NEW ME	000	Page 2
Deviation Rule	s: Distance to t				
	Max. Allowed	Digpla	cement	·	329
•					K, Sec. 27, T-26S, R-37
Depth	Type Weight				Remarks
	FRESH 8,4	28			CIRC RESERVE, PH 9-10 W/LIME
<u> 1190 – 3440</u>		<u> 30–32 </u>	20	cc	CIRC RESERVE.PH 9-10 W/LIME
			CO	IDITIONS DI	MUD UP IN STEEL PITS IF HOLE CTATE. DIVISION APPROVAL REQUIRED.
STARCH/PAPER/FIBER/	MULTISEAL FOR SEEPAGE V	WHILE DRIL			The state of the s
Circulate steel pi	ts for one hour each 1	tour to m	onitor g	ains/los	ses, when circulating reserve.
	Γ	CASING	PROGRA	M	
	NOTE: PIPE TO END U				TTON AS SHOWN
ONDUCTOR PIPE					
Hole Size 16	<u></u> #		** - 3		
	sing @ 40 '		HOTE	Size_	" Casing @'
40' 13.375, 48#, WC	-40 STC CEMENT WITH RE	ADY-MIX_	TOT.	Α	
	LLING SURFACE HOLE.		TOD	e	·
Pressure Test	min @ psi	•			
	BY				
URFACE CASING	25		2	Jima M.	estmin @psi
Set 8 825 " Ca	<u> </u>		PLE	seare T	escmin epsi
	C-50 STC CENT BTM 3 & E		PROD	UCTION	CASING
	NO CENT ABOVE LOSS CIRC		Hole	size .	7.875 H
	30 min <u>01500</u> psi		Set_	5.5	_M Casing @ 3440 '
REO'D DEPTH	BY_	•			# WC-50, LTC
			CENT	8TM 5 & E	VERY OTHER JT TO 2900'
Hole Size	#				
Set " Ca	sing 0				
			Pre	ssure T	est <u>30 min @ 3000</u> psi
December Mont					
riessure lesc	min @ psi				
	<u> </u>	EMENTI	NG PROG	RAM	
SURFACE CASING	Min. WOC	rime	12 H	ours	Pump Rate 10 B/M
Pump Time 12	0_MIN. 6	T BHST.	725 SX C	LASS C. M	VITH 2% GEL, 2% CACL(14.1PPG,
1.51 CUFT/SX, 7.8 G	AL/SX) FB 225 SX CL C, 2	% CACL (1	4.8PPG, 1	.32CUFT/S	X, 6.3 GAL/SX) 300% gauge hole
INTERMEDIATE CA		rime	H	ours	Pump RateB/M
Pump Time	Min. @	°F BHST.			
			···· :		
PRODUCTION CAS	ING Min. WOC	rima	10 U		Pump Rate 8 B/M
Minimum Pump	Time 150 Min. @	100 °F	BHST 4	00 SX 35/	65 POZ 'H'
WITH 6% GEL. 5% SAL	T25#/SX FC (12.8 PPG.	1.87 CUF	T/SX. 9.9	GAL/SX).	65 POZ 'H' TANL 250 SX CL 'H'. 2%CACL
	T/SX. 5.2 GAL/SX)		404/ 57405		4100
CEMENT VOLUME BAS	ED ON 9 in HOLE PLUS 30%	IN OH AND	13% EXCE	SS_N_CSG_	ANNULUS
	Win Wood	nima	***		Daniel Date
Minimum Dumn	MIII. WOC'I	rime_	Ducm Ho	ours	Pump RateB/M
			DII31 _		
REMARKS:					
					3TM 500' OF 5.5 IN
2. H2S AND PVT EQUI	PMENT TO BE OPERATIONAL	PRIOR TO	DRILLING C	XVT 8.625	SHOE.
3 IF CEMENT DOES N	OT CIRC ON SURFACE NOTIF	Y DIV WOO	: 6 HOURS	AND RIN	TEMP SURVEY, RUN 1 INCH
					S 'C'. 2% CACL)
	CIRC ON PROD CSG. WOC 8				
REGULATOR	Y REQUIREMENTS				
Exception to SWP	13 (A)(1) Required:			<u>APPROVAL</u>	
H 9 Required:	(m)(=) noderious			DIV. DRL	G. ENG. 771/14 8-19-42
Compliance w/SWR	11 (D)(3) Required:			DIV. DRI.	g, eng. ////////////////////////////////////
Rule 37 Required	:			,	G. MGR. 148-16-92
				DIV. DRL	G. MGR. 144070792

Lease Name:	W. H. RHODE	S 'B' NCT-1	Well	No .:	20		Form	M-31A (4	-91)
County:	LEA	St	ate:	NEW MEX	ICO			Pa	age 2
Deviation Rul	es: Dista	unce to	the Nea	rest L	ease Li		30		
10001 For 10		Allowed	_						
1300' FSL, 10			•		_	t I, Sec	. 27, T	-26S,	R-3
Depth	Туре			Water	Loss		Remarks	.	
0 - 1150	FRESH	8.4 10.0	28 30-32				WE PH 8-10		
1150 - 3400	BRINE	10.0	30-32		<u>~~</u>		RVE.PH 9-10 STEEL PITS		_
				CON	DITIONS DIC	TATE. DIVISI	ON APPROVA	L REQUIR	ED.
STARCH/PAPER/FIBER									
Circulate steel p	its for one	hour each	tour to m	onitor g	lins/loss	es, when	irculatin	ng reser	ve.
			CASING	PROGRA	M				
	NOTE: PI	PE TO END	UP IN HOL	E FROM TO	P TO BOT	TON AS SHO	WN		
NDUCTOR PIPE									
Hole Size 1	<u>6 "</u> "	40	•	Hole	Size	91			
Set_13.375 * C				Set_		' Casing	<u>e</u>	,	
CHAIN PIPE WHILE DE						 '			
Pressure Test									
REQ'D DEPTH		BY_							
RFACE CASING	1		r						
Hole Size		4455	•	Pres	sure Te	et	nin 0	_bei	
Set_ 8.625_" C	-			PRODU	CTION	CASING			
1150' 8.625. 24#. \ 4TH JOINT TO SURF.				Hole	Size	7.875	#		
				Set_	5.5	_" Casing	<u> 9 340</u>	00 +	
Pressure Test	30 min	01500 ps:	1						
REQ'D DEPTH		BI_		3400'	5.5, 15.5	WC-50, LT VERY OTHER	C TO COOK	.,,	
Hole Size	91			CENT	IM D & EV	VERT UTHER	J1 10 2900		
Hole Size <u> </u>	asing P		1						
				Pres	sure Te	est <u>30</u>	nin @ 300	00 psi	
URFACE CASING Pump Time 1 1.51 CUFT/SX, 7.6 NTERMEDIATE (Pump Time	20 Min. 6 GAL/SX) FB 2: CASING M	70 25 SX CL C,	_°F BHST 2% CACL (1 Time	725 SX CL 4.8PPG, 1. HC	32CUFT/S	TIH 2% GEL, X, 6.3 GAL/	2% CACL(14 SX) 300% gt	1.1PPG, auge hole	
PODUCTION CAS	SING N	in was	mi		1	Danis Da 4			
RODUCTION CA: Minimum Pump	Time 210	Min. 0	100 F	BHST 40	urs 1 00 SX 35/6	Pump Rate 36 POZ'H'	8BI	3/M	
WITH 6% GEL. 5% S	ALT25#/SX	C (12.8 PPG	1.87 CUF	T/\$X. 9.9	GAL/SX).	TAIL 250 SX	CL 'H'. 2%	CACL	
(15.6 PPG, 1.19 CU									
CEMENT VOLUME BA	ISED ON SIN HO	LE PLUS 30%	IN OH AND	13% EXCES	is in Cou A	MINULUS			
Minimum Pump	Time	Iin. WOC Min. @	Time°F	Ho BHST _	urs	Pump Rate	8Y	3/M	
						_ 			
REMARKS:									
1. THREADLOCK BOT									
2. H2S AND PVT EQ	JIPMENT TO BE	OPERATIONAL	L PRIOR TO	DRILLING O	UT 8.625	SHOE			
A RE CENTRALE DODGE	NOT ODG ON S	IDEACE NOTE	EV DIV WO	C & LICHIDS	AND DIN T	TEMP SHOVE	/ DIM 1 W	ru -	
3. IF CEMENT DOES AND CEMENT WITH									
4. IF CMT DOES NOT									
REGULATO	RY REQUIREM	ENTS							
Exception to SW	R 13 (A)(1)	Required:		1	APPROVAL:	,		* 11= A=	
H 9 Required:	(/(-/			;	DIV. DRL	G. ENG. ///	1/1/1 8	1842	
Compliance w/SW		Required:		1	DIV. DRLC	G. OPR. MG	2. KSH 1	8/18/92	
Rule 37 Require	d:				OTH POY	· va	1/6	21000	
				1	JIV. DRLG	G. MGR.	NOTES	w71	

RHODES20

Lease Name:	W. H. RHODES 'B' NC	<u>r-1</u> Well	No.: 21		Form M-31A (4-91)
County:	LEA	State:	NEW MEXICO	_	Page 2
Deviation Rules					
			cement		
1450' FSL, 1150					, T-26S, R-37
	Type Weigh				arks
	FRESH 8.4 BRINE 10.0	28 30-32	20 CC	CIRC RESERVE.F	H 9-10 W/LIME H 9-10 W/LIME L PITS IF HOLE
					PROVAL REQUIRED.
STARCH/PAPER/FIBER/M Circulate steel pit				ree when of no	alating pagemen
circulate stool pit	s for one nom ea			ses, when clic	Tracing Leset Ac.
		CASING	PROGRAM		
	NOTE: PIPE TO KI	ND JP IN HOL	E FROM TOP TO BO	TTOM AS SHOWN	
CONDUCTOR PIPE Hole Size16					
Set 13.375 " Cas	sing A 40	•	Hole Size_	" Casing @	
40' 13.375, 48#, WC-	40 STC CEMENT WITH	H READY-MIX	Set	" Casing @	1
CHAIN PIPE WHILE DRILL			TOL @	·	
Pressure Test _	min 6	psi			
REQ'D DEPTH		BY			
URFACE CASING Hole Size12.2	e H	•	Pressure T	est min	A nei
Set_ 8.625 " Cas	<u>e</u> " sing 8 1150	:		•	eosi
1150' 8.625. 24#. WC			PRODUCTION	CASING	
4TH JOINT TO SURF. N			Hole Size	7.875	1
Pressure Test	90 min 01500	nei	Set5.5	_" Casing @	3400
REQ'D DEPTH	<u>av</u>	BY		# WC-50, LTC	
			CENT BTM 5 & E	VERY OTHER JT T	0 2900'
Hole Size Cas	#	_			
Set" Cas	sing @	1	Pressure T	est 30 min	0.3000 pgi
		1.0,1-10	11000010 1	CBCmIII	e user par
Pressure Test _			NG PROGRAM		
SURFACE CASING	Min. Wo	OC Time	12 Hours	Pump Rate	10 B/M
Pump Time 120	Min_070	°F BHST	725 SX CLASS 'C' \	VITH 2% GEL, 2% C	ACL(14.1PPG,
1.51 CUFT/SX, 7.6 GA					
INTERMEDIATE CA				Pump Rate	B/M
Pump Time	Min. @	°f bhst			
					
PRODUCTION CASI Minimum Pump T	NG Min. Wo	OC Time	18 Hours	Pump Rate	8_B/M
Minimum Pump T WITH 6% GEL. 5% SALT	ime <u>210</u> Min.	. @ <u>100</u> °F	BHST 400 SX 35/	65 POZ 'H'	IN OVOLO
(15.6 PPG. 1.19 CUFT		PPG. 1.87 CUF	1/3A. 3.8 GAL/3A).	TAIL 250 SX CL	n . ZACACL
CEMENT VOLUME BASE		30% IN OH AND	13% EXCESS IN CSG	ANNULUS	
			· 		
Vinimum Dumm M	Min. W	OC_Time	Hours BHST	Pump Rate	В/М
Minimum Pump T	imeMin.	. e ·F	внят	· · · · · · · · · · · · · · · · · · ·	
REMARKS:					
1. THREADLOCK BOTTO					
2. H2S AND PYT EQUIP	MENT TO BE OPERATE	UNIAL PHIOR TO	DRILLING OUT 8.625	OHUE.	
3. IF CEMENT DOES NO	T CIRC ON SURFACE N	OTIFY DIV. WO	C 6 HOURS AND RUN	TEMP SURVEY, R	JN 1 INCH
AND CEMENT WITH	100 SX PLUGS UNTIL (CEMENT REACH	ES SURFACE. (CLAS	S 'C'. 2% CACL)	
4. IF CMT DOES NOT C	IRC ON PROD CSG. WO	C 8 HRS AND F	RUN TEMP SURVEY.		
DDAIT LEAN	PENTITREMENTO				
KEGULATORY	REQUIREMENTS		APPROVAL	.:	
Exception to SWR	13 (A)(1) Require	d:		mona	10-18 12
H 9 Required:	14 (D) (O) D	.a.	DIV. DRI		5109L
Compliance w/SWR Rule 37 Required:		a:	DIV. DRI	G. OPR. MGR.	
ware or wedginger.			DIV. DRI	.g. ngr. 🕏	148-18-92

RHODES21

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

[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

	one			veeks.
Beginning	with	the	issue	dated

ΩĒ

August 24 ____, 19<u>__9</u>2 and ending with the issue dated

General Manager

Sworn and subscribed to before

day of

Notary Public.

My Commission expires___

February 14 19 95 (Seal)

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.

LEGAL NOTICE August 24, 1992

Notice is hereby given of the application of Texaco Exploration & Production Inc., Attention: Terry L. Frazier, Area Manager, P.O. Box 730, Hobbs, New Mexico, 88240, Telephone (505) 393-7191, to the New Mexico Oil Conservation Commission, Energy and Minerals Department, for approval of the following wells to be converted to water injection for the purpose of secondary oil recovery.

Lease/Unit Name: Rhodes Yates Unit Well Number(s) and Locat-

ion(s):

8— Unit Letter E, 1875
FNL & 765 FWL, Section
27, T265, R37E

13 - Unit Letter M, 660 FSL & 660 FWL, Section 27,

T265; R37E

Lease/Unit Name: W. H.
Rhodes B Fed NCT-1 Well
Number(s) and Location(s):

6 — Unit Letter 1, 1980 FSL & 660 FEL, Section 27, T26S, R37E

13 — Unit Letter 0, 990

FSL & 1650 FEL, Section 27, T26S, R37E

The injection formation is Rhodes Yates Seven Rivers at a depth of 3000 feet below the surface of the ground. Expected max-imum injection rate is 600 barrels per day, and expected maximum injection pressure is 1800 pounds per square inch. Interested parties must file objections parties must the objections or requests for hearing with the Oil Cpnservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication.

P 369 428 057 Receipt for Certified Mail No Insurance Coverage Provided

Sea Sand Oil Co. P.O. Box 101777 Ft.Worth, Texas 76185

	Postage	\$.75
	Certified Fee	1.00
	Special Delivery Fee	-11
	Restricted Delivery Fee	
991	Return Receipt Showing to Whom & Date Delivered	1.00
une 1	Return Receipt Showing to Whom, Date, and Addressee's Address	
آ 0	Little blacke	\$7.75
PS Form 3800 , June 1991	Postmark of Vale	
S	USP	

P 365 085 107

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82	Sent to—	
234-5	Jom & Evelyn L	inelay
. 1989-	Street and No. 802. S. Main	
☆ U.S.G.P.O. 1989-234-555	P.O., State and ZIP Code Midland, TX 79.	701
₩ U.S	Postage	s 15
	Certified Fee	1.00
	Special Delivery Fee	
	Restricted Delivery Fee	
10	Return Receipt showing to whom and Date Delivered	1.00
'S Form 3800, June 1985	Return Receipt showing to whom, Date, and Address of Delivery	
Jun,	TOT of standard Feet	2.75
3800	Postmatk or Date 3	•
E.o.	115th	
SF		

P 365 085 108

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Mack Energy Corp. P.O. Box 276 Artesia, NM 88211

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	Restricted Delivery Fee	
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e 198	Return Receip showing to whom. Date, and address of pervery	
Jun,	TOTAL Postage Pad Fales	\$2.75
PS Form 3800, June 1985	Postmark or 1992	
PS F		

P 369 428 058



Doyle Hartman P.O. Box 10426 Midland, Texas 79702

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Restricted Delivery Fee	
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Return Receipt Showing to Whom, Date, and Addressee Address	
TOTAL ROST OF	\$ 2.75
1992	
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P 369 428 059



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	Certified Fee	\$,75
	Special Delivery Fee	
	Restricted Delivery Fee	
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aun	Return Receipt Showing to Whom, Date, and Addresse Address	
, J	TOTAL Politie Fees	\$2.75
380	Posyman Pol-Date	
PS Form 3800, June 1991	1395	
PS F		

P 369 428 082



Smith & Marrs, Inc. 1110 N Big Spring Midland, Texas 79701

\$,75
1.00
1.00
\$2.75

P 365 085 111

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Koch Industries P.O. Box 2256 Wichita, Kansas 67201

ů	Postage	5,75
PS Form 3800, June 1985	Certified Fee	1.00
	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt showing to whom and Date Delivered	1.00
	Return Receipt showing to whom, Date, and Address of Delivery	
	TOTAL Postage and Pees	\$2.75
	Postmark or Dans	
	1992	
S.	0870	

P1369 428 056



Marathon Oil Co. P.O. Box 552 Midland, Texas 79702

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	Postage	\$,75
	Certified Fee	\$,75 /100
	Special Delivery Fee	•
	Restricted Delivery Fee	
- 86	Return Receipt Showing to Wnom & Date Delivered	1.00
June	Return Receipt Showing to Whom, Date, and Addressee's Address	
	TOTAC Regtage & Feest	\$ 2-75
PS Form 30UC,	Postmerk or Wale	