RELEASE 4-29-93

April 12, 1993

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

Attention: Ben Stone

Re: Application for Expansion of Waterflood;
Orders R-2748/48A, 3889, 4521/22, WFX-454 & 9847/48
Texaco Exploration and Production Inc.
Rhodes Yates Unit, Rhodes B Fed NCT-1 & NCT-2
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 cooperative waterflood on the Rhodes Yates Unit, Rhodes B Fed NCT-1 and Rhodes B Fed NCT-2. A total of nine wells 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. Ten infill oil wells will also be drilled. If additional information is needed, contact Robert McNaughton at 505-397-0428.

Yours very truly,

T L Frazier/BSF

Terry L. Frazier
Hobbs Area Manager

TLF/rtm

attachments

Rhodes Yates Unit

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [X] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [X] yes [ ] no

II. Operator: Texaco Exploration & Production Inc.

Address: P.O. Box 730, Hobbs, New Mexico 88240

Contact party: Terry L. Frazier, Area Manager Phone: 505 - 393 - 7191

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? [X] yes [ ] no
If yes, give the Division order number authorizing the project R-2748,48A, 3889, 4521/22, WFX-454 and R-9847/9848.

V. 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.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. 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.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed 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.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

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: T. L. Frazier/BSF Date: 4-8-93

* 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. Examiner Hearings: 6/29/74, 12/3/69, 12/2/69, 5/17/73, 8/2/77 and 2/18/93

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division

4 OR 5 + 6 Pgs

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;

(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.

5-07-93

NEW MEXICO OIL CONSERVATION DIVISION - Form C-108, cont'd

Rhodes Yates Unit - Rhodes Yates Seven Rivers
4 - Unit Letter A, 560 FNL & 660 FEL, Section 28, T26S, R37E
6 - Unit Letter C, 660 FNL & 1980 FWL, Section 27, T26S, R37E
11 - Unit Letter K, 2310 FSL & 2310 FWL, 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 Texaco's Rhodes wells and all passed.

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 and WFX-454 on July 18, 1977. Information concerning the 1992 Phase I development plan was submitted for NMOCD order R-9847/9848 on September 8 and September 21, 1992.

5 infill wells were drilled in 1992; No.s 14, 15 and 16 on the Rhodes Yates Unit and No.s 21 and 22 on the Rhodes B NCT-1 lease. Completion reports are attached and a schematic of RYU No. 16 is included since it is a typical new well completion. Texaco is planning on drilling 10 infill wells in the second half of 1993. Seven will be on the Rhodes B NCT-1 and three will be on the Rhodes Yates 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.

Two wells have been plugged within the area of review up to 1991. Meridian Oil Inc's State UTP No.1 was plugged 3-27-92. Texaco E&P Inc's W.H. Rhodes B NCT-1 No. 2 was plugged on 12-08-92. Wellbore schematics for Meridian's Mobil Q State No. 2C is attached. Additional schematics for other wells within the area of review are also attached.

VII. Proposed average daily injection rate per well is 400 Bbls per day and anticipated maximum rate is 600 Bbls per day. The initial average surface injection pressure will not exceed approximately 600 psi (.2 psi/ft). Step rate tests will be run to establish higher limits with the authorization of the NMOCD. Maximum pressure will not exceed the 2000 psi system working pressure. The system will be closed.

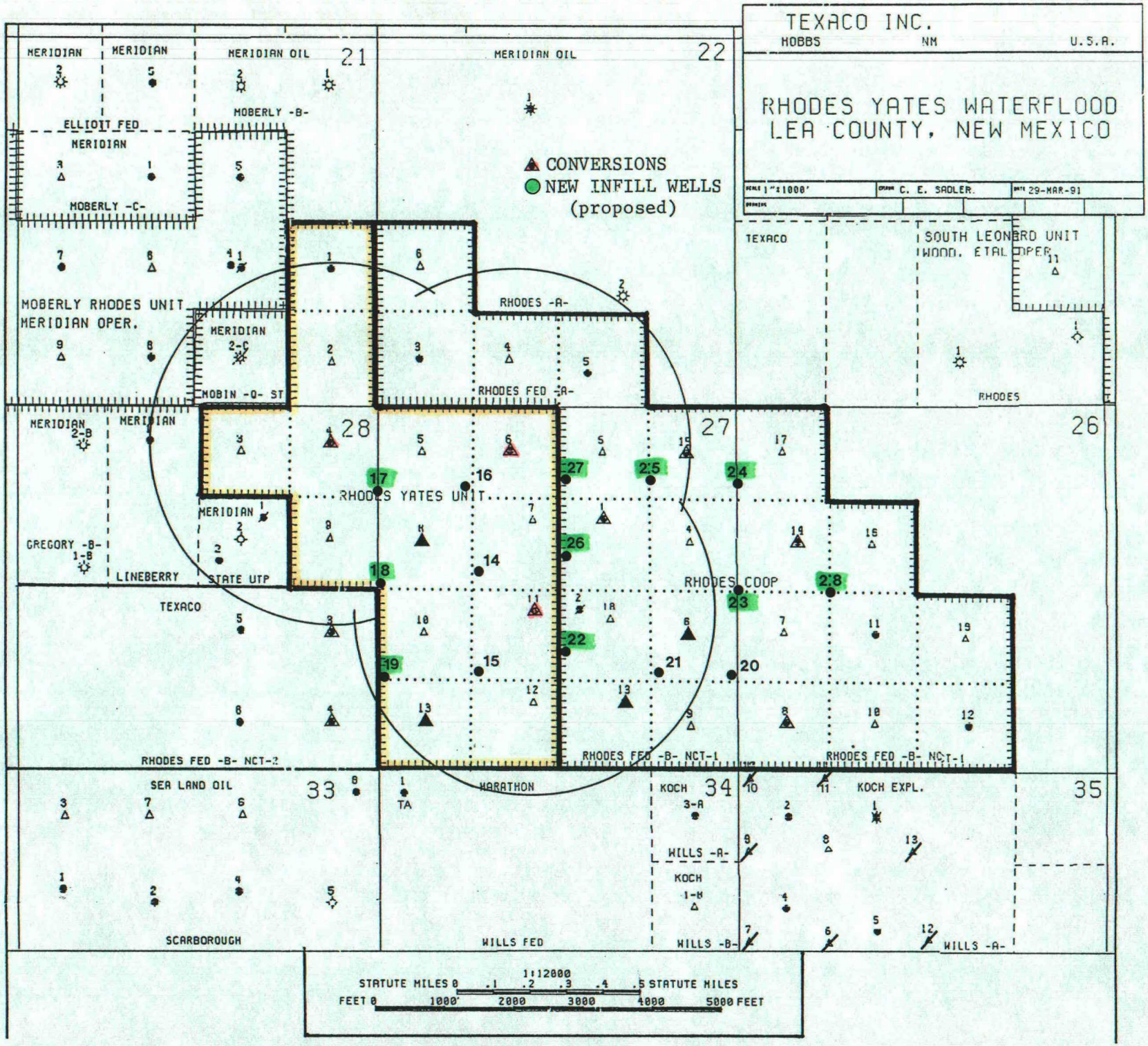
NEW MEXICO OIL CONSERVATION DIVISION - Form C-108, cont'd

Rhodes Yates Unit, Rhodes Yates Seven Rivers

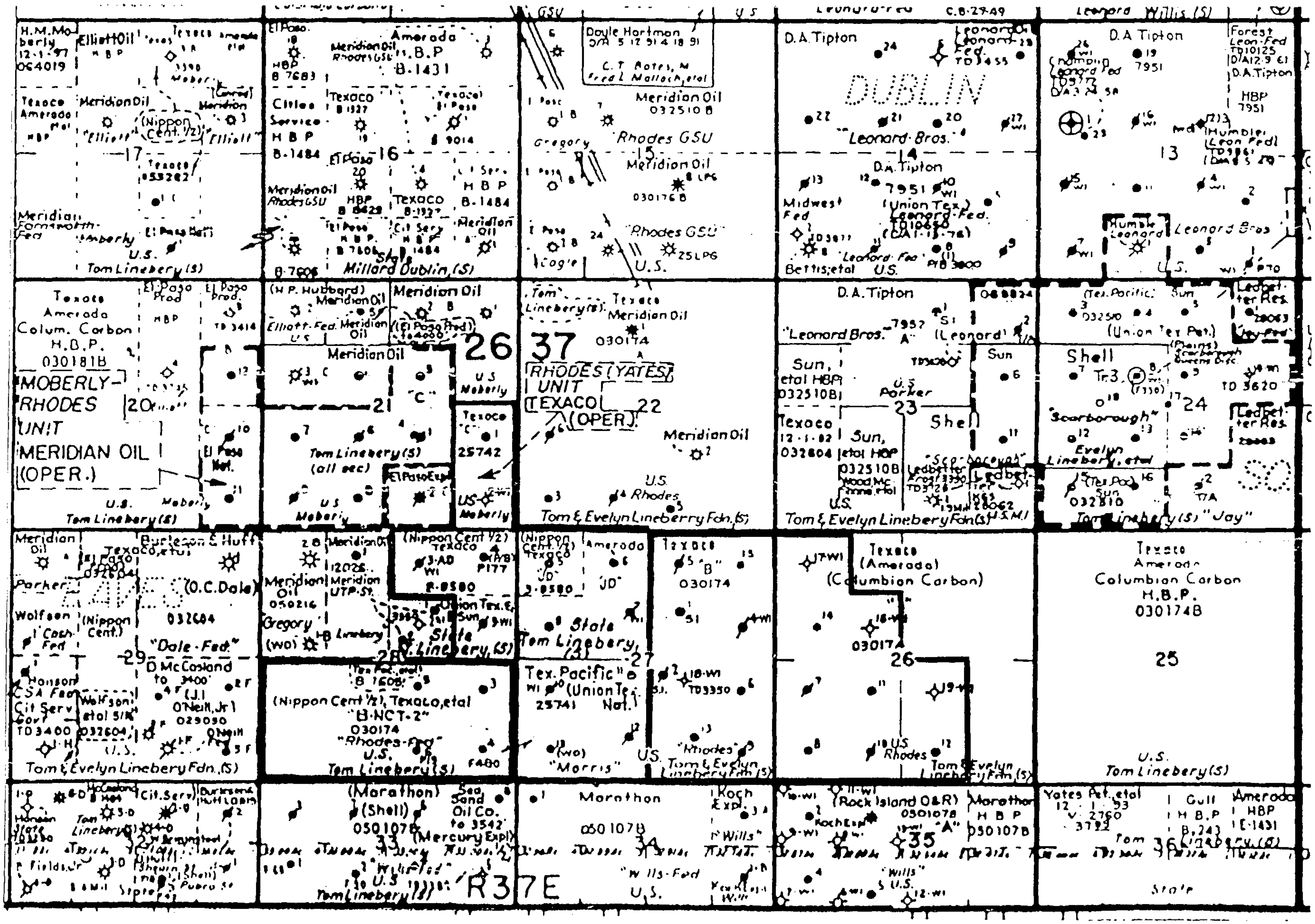
IX. As part of the overall infill drilling project, a workover program will be aimed at developing the middle Yates zone. Both producers and injectors will have some upper pay zones opened and hydraulically fractured. The injection work will be centered around diverting some of the water into the middle zones. The details of individual workovers will be covered on subsequent sundry notices when the work is actually started.

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 copy of the notarized proof of publication is attached Copies of registered mail reciepts for the offset operators and landowner are attached.


TEXACO INC.
HOBBS NM U.S.A.
RHODES YATES WATERFLOOD
LEA COUNTY, NEW MEXICO
1"=1000'
C. E. SADLER
29-MAR-91
CONVERSIONS
NEW INFILL WELLS
(proposed)
MERIDIAN
MERIDIAN OIL
21
22
ELLIOT FED
MOBERLY -B-
MOBERLY -C-
MOBERLY RHODES UNIT
MERIDIAN OPER.
RHODES -A-
MOBIN -O- ST
RHODES FED -A-
TEXACO
SOUTH LEONARD UNIT
WOOD, ETAL OPER.
RHODES
28
27
26
RHODES YATES UNIT
GREGORY -B-
LINEBERRY
STATE UTP
RHODES COOP
RHODES FED -B- NCT-2
RHODES FED -B- NCT-1
SEA LAND OIL
33
MARATHON
34
KOCH
KOCH EXPL.
35
WILLS -A-
WILLS -B-
WILLS FED
SCARBOROUGH
1:12000
STATUTE MILES 0 .1 .2 .3 .4 .5 STATUTE MILES
FEET 0 1000' 2000 3000 4000 5000 FEET

RHODES YATES FIELD LEA COUNTY, NEW MEXICO



1" = 3000'

PO-108
(5/91)

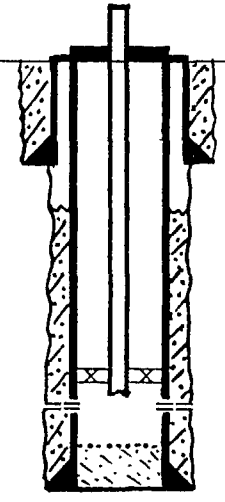
PROPOSED INJECTION WELL CONVERSION

OPERATOR: Texaco Exploration & Production Inc. **Lease:** Rhodes Yates Unit #4

FOOTAGE LOCATION: 560 FNL X 660 FEL **Sec./Twn/Rng:** Unit A, Sec 28, T-26-S, R-37-E

Lea County, New Mexico

SCHEMATIC



Gr 2973' GL
(KB=12')

678' 8-5/8", 28.5#, 600 sx, cement circulated.

3100' AD-1 injection packer
3114' T/ Yates perfs
3176' old PBTD, C/O to 3250'
3350' 5-1/2", 14#, 700 sx, TOC @ 1300' by T.S.

Note: will be cleaned out to 3250' PBTD, new perfs from 3180'-3245'. retainer set at 3176'

Tops:

Salt	1410'-2650'
Yates	2940'
Seven Rivers	3180'
Queen	na

TABULAR DATA

Surface Casing: Set at 678'

Size 8-5/8", 28.5# Cemented with 600 sx.

TOC surface ' determined by circulation

Hole Size 12-1/4" Comp. Date 12-16-76

Intermediate casing: Set at _____

Size NONE Cemented with _____ sx.

TOC _____ ' determined by _____

Hole Size _____

Production Casing: Set at 3350'

Size 5-1/2", 14# Cemented with 700 sx.

TOC 1300 ' determined by Temp. Sv.

Hole Size 7-7/8"

Injection Interval:

3114 ' to 3245 ' Size 6-1/8", nitro shot

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

PO-113
(5/91)

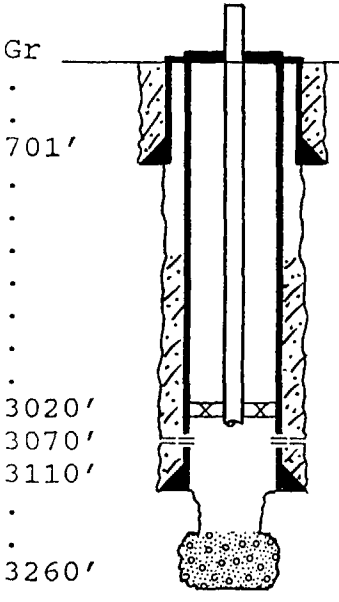
PROPOSED INJECTION WELL CONVERSION

OPERATOR: Texaco Exploration & Production Inc. **Lease:** Rhodes Yates Unit #6

FOOTAGE LOCATION: 660 FNL X 1980 FWL **Sec./Twn/Rng:** Unit C, Sec 27, T-26-S, R-37-E

Former Amerada State J "A" #3, State "JD" Unit #1 Lea County, New Mexico

SCHEMATIC



Tops:

Salt	1207'-2676'
Yates	2930'
Seven Rivers	na
Queen	na

TABULAR DATA

Surface Casing: Set at 701'

Size 10-3/4", 29# Cemented with 175 sx.

TOC surface ' determined by calculation

Hole Size 13" Comp. Date 3-16-44

Intermediate casing: Set at _____

Size NONE Cemented with _____ sx.

TOC _____ ' determined by _____

Hole Size _____

Production Casing: Set at 3110'

Size 7", 24# Cemented with 300 sx.

TOC 1555 ' determined by calculation

Hole Size 8-3/4" (assumed 66% fill)

Injection Interval: open hole, perfs

3070 ' to 3260 ' Size 6-1/8", nitro shot

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

PO-108
(5/91)

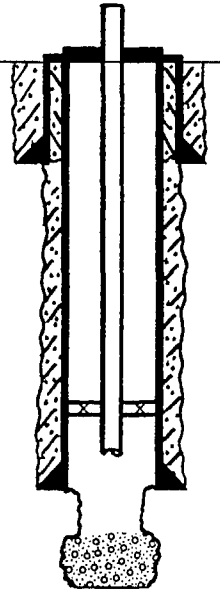
PROPOSED INJECTION WELL CONVERSION

OPERATOR: Texaco Exploration & Production Inc. **Lease:** Rhodes Yates Unit #11

FOOTAGE LOCATION: 2310 FNL X 2310 FWL **Sec./Twn/Rng:** Unit K, Sec 27, T-26-S, R-37-E

Former Anderson-Pritchard Gregory "B" - Morris #1 Lea County, New Mexico

SCHEMATIC



Tops:

Salt	1170'-2800'
Yates	2975'
Seven Rivers	na
Queen	na

TABULAR DATA

Surface Casing: Set at 540'

Size 9-5/8, 25.7# Cemented with 250 sx.

TOC surface ' determined by circulation

Hole Size 11-1/4" Comp. Date 4-20-46

Intermediate casing: Set at _____

Size NONE Cemented with _____ sx.

TOC _____ ' determined by _____

Hole Size _____

Production Casing: Set at 3130'

Size 7", 22# Cemented with 750 sx.

TOC 540'/ surf.' determined by SQZ/ circ.

Hole Size 8-3/4"

Injection Interval: open hole

3130 ' to 3327 ' Size 6-1/8", nitro shot

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

PO-90m
(5/91)

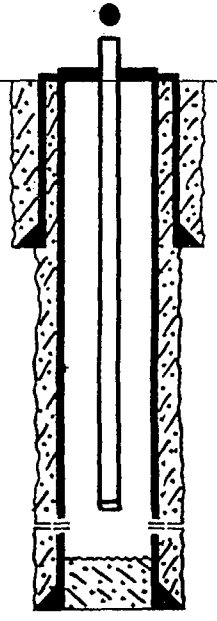
WELL DATA SHEET

OPERATOR: Texaco Exploration & Prod. Inc **Lease:** Rhodes Yates Unit #16

FOOTAGE LOCATION: 1295 FNL, 1357 FWL **Sec./Twn/Rng:** Unit C, Sec 27, T-26-S, R-37-E

Lea County, New Mexico

SCHEMATIC



Gr — 3975' GL
(KB=11')

1140' — 8-5/8", 24#, 950 sx, cement circulated

3075' — SN
3106' — T/ Yates perfs
3327' — PBTD
3400' — 5-1/2", 15.5#, 1010 sx, cement circulated

Tops:

Salt	1285'-2786'
Yates	2932'
7 Rivers	3276'

TABULAR DATA

Surface Casing: Set at 1140'

Size 8-5/8", 24# Cemented with 950 sx.

TOC surface ' determined by circulated

Hole Size 12-1/4" Comp. Date 11-08-92

Intermediate casing: Set at _____

Size none Cemented with _____ sx.

TOC _____ ' determined by _____

Hole Size _____

Production Casing: Set at 3400'

Size 5-1/2", 15.5# Cemented with 1010 sx.

TOC surface ' determined by circulation

Hole Size 7-7/8"

Producing Interval:

3106 ' to 3326 ', perfs @ 2 SPF, 67 holes

Stimulation: 3300 g 15% NEFE, 33/112 frac

T. Hobbs Area Manager LTM

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL API NO.
30-025-31731

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
B-1431-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. Type of Completion: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF RESVR [ ] OTHER

7. Lease Name or Unit Agreement Name
RHODES YATES UNIT

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

8. Well No.
14

3. Address of Operator
P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat
RHODES YATES SEVEN RIVERS

4. Well Location
Unit Letter F : 2445 Feet From The NORTH Line and 1521 Feet From The WEST Line

Section 27 Township 26-SOUTH Range 37-EAST NMPM LEA County

10. Date Spudded	11. Date T.D. Reached	12. Date Compl. (Ready to Prod.)	13. Elevations (DF & RKB, RT, GR, etc.)	14. Elev. Casinghead
10-27-92	11-01-92	11-13-92	GR-2976', KB-2986'	2976'

15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools
3400'	3376'			0 - 3400'	

19. Producing Interval(s), of this completion - Top, Bottom, Name
3116' - 3346': SEVEN RIVERS

20. Was Directional Survey Made
YES

21. Type Electric and Other Logs Run
GR-DLL-MSFL, GR-SDL-DSN, GR-COMP-SONIC

22. Was Well Cored
NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1150'	12 1/4	950 SX, CIRC. 250 SX	
5 1/2	15.5#	3400'	7 7/8	850 SX, CIRC. 115 SX	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	3102'	

26. Perforation record (interval, size, and number)
3116 - 18', 3124 - 29', 3145 - 48', 3151', 3156', 3158 - 61', 3176 - 90', 3193 - 96', 3239 - 51', 3258 -95', 3343 - 46' W/2 JSPF (93 HOLES)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3116' - 3346'	ACID - 3200 GAL 15% NEFE
	FRAC - 33000 GAL XLG & 150000#
	12/20 SD

28. PRODUCTION

DEC 1992

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
11-25-92	PUMPING, 2.5 X 1.75 X 24	PRODUCING

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
11-25-92	24			52	8	430	154

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
						37.4

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
VENTED FOR TEST PURPOSES ONLY

Test Witnessed By
G. WEIR

30. List Attachments
DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C P Basham/RDC Printed Name C. P. BASHAM Title DRILLING OPNS MGR Date 12-01-92

RTM

Form 3160-4
(July 1989)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING OFFICE FOR NUMBER OF COPIES REQUIRED (See other instructions on reverse side)

BLM Roswell District
Modified Form No.
NM060-3160-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other
b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESER. [ ] Other

5. LEASE DESIGNATION AND SERIAL NO.: NM-25741
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME: RHODES YATES UNIT
8. FARM OR LEASE NAME:
9. WELL NUMBER: 15
10. FIELD AND POOL, OR WILDCAT: RHODES YATES SEVEN RIVER
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SEC. 27, T-26-S, R-37-E

2. NAME OF OPERATOR: TEXACO EXPLORATION AND PRODUCTION INC.

3. ADDRESS OF OPERATOR: P. O. Box 3109, Midland, Texas 79702

3a. AREA CODE & PHONE NO.: (915) 688-4620

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1516' FSL & 1453' FWL, UNIT LETTER: K
At top prod. interval reported below: SAME
At total depth: SAME

9a. API WELL NO.	14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
30-025-31757		10-15-92	LEA	NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11-03-92	11-08-92	11-28-92	GR-2976', KB-2986'	2976'

20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL. HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
3440'	3352'		→	0-3440'	

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*: 3161' - 3343': SEVEN RIVERS

25. WAS DIRECTIONAL SURVEY MADE: YES

26. TYPE ELECTRIC AND OTHER LOGS RUN: GR-DLL-MSFL, GR-DSN-SDL, GR-SONIC

27. WAS WELL CORED: NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1190'	12 1/4	950 SX, CIRC. 160 SX	
5 1/2	15.5#	3440'	7 7/8	735 SX, CIRC. 116 SX	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	3131'	

31. PERFORATION RECORD (Interval, size, and number)
3161-65, 3171-72, 3190-96, 3199-3201, 3204-05, 3208-12, 3228-32, 3235-38, 3240-44, 3284-95, 3301-09, 3312-43. w/ 2 JSPF: 158 HOLES

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3161' - 3343'	FRAC: 4000 GAL 2% KCL F/B 32000 GAL XLG KCL w/ 140000# 12/20 SD.

33.* PRODUCTION

DATE OF FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping- size and type of pump)	WELL STATUS (Producing or shut-in)
11-20-92	PUMPING - 2.5 x 1.75 x 24	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
12-13-92	24		→	49	29	47	592

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24 HOUR RATE →	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)
		→				37.4

Received
DEC 1992
Hobbs, New Mexico

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): VENTED FOR TEST PURPOSES ONLY

TEST WITNESSED BY: JOHN VANCE

35. LIST OF ATTACHMENTS: DEVIATION SURVEY

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED C. P. Basham/cwh TITLE DRILLING OPERATIONS MANAGER DATE 12-15-92

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully

Hobbs

WELL FILE

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-025-31732

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.
B-8580-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

a. Type of Well:
OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

7. Lease Name or Unit Agreement Name
RHODES YATES UNIT

b. Type of Completion:
NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF RESVR [ ] OTHER

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

8. Well No.
16

3. Address of Operator
P. O. Box 3109, Midland, Texas 79702

9. Pool name or Wildcat
RHODES YATES SEVEN RIVERS

4. Well Location
Unit Letter C : 1295 Feet From The NORTH Line and 1357 Feet From The WEST Line

Section 27 Township 26-SOUTH Range 37-EAST NMPM LEA County

10. Date Spudded	11. Date T.D. Reached	12. Date Compl. (Ready to Prod.)	13. Elevations (DF & RKB, RT, GR, etc.)	14. Elev. Casinghead
10-20-92	10-26-92	11-08-92	GR-2975', KB-2986'	2975'

15. Total Depth	16. Plug Back T.D.	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools	Cable Tools
3400'	3327'			0 - 3400'	

19. Producing Interval(s), of this completion - Top, Bottom, Name
3106' - 3326': SEVEN RIVERS

20. Was Directional Survey Made
YES

21. Type Electric and Other Logs Run
GR-DLL-MSFL, GR-SDL-DSN, GR-SONIC-FWS, GR-CCL

22. Was Well Cored
NO

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1140'	12 1/4	950 SX, CIRC. 250 SX	
5 1/2	15.5#	3400'	7 7/8	1010 SX, CIRC. 116 SX	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	3075'	

26. Perforation record (interval, size, and number)
3106 - 09', 3114 - 19', 3133 - 36', 3142 - 45',
3148', 3153', 3172 - 79', 3190 - 93', 3231 - 44',
3253 - 57', 3320 - 26' W/2 JSPF (67 HOLES)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3106' - 3326'	ACID - 3300 GAL 15% NEFE
	FRAC - 33000 GAL XLG & 112000#
	12/20 SD

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
11-04-92	PUMPING, 2.5 X 1.75 X 24	PRODUCING

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
11-12-92	24			96	15	189	156

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
						37.4

Received
Texaco
Hobbs Area

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
VENTED FOR TEST PURPOSES ONLY

Test Witnessed By
G. WEIR

30. List Attachments
DEVIATION SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C P Basham/ROC Printed Name C. P. BASHAM Title DRILLING OPNS MGR Date 11-20-92

Form 3160-4
(July 1989)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING OFFICE FOR NUMBER OF COPIES REQUIRED (See other instructions on reverse side)

BLM Roswell District
Modified Form No.
NM060-3160-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: LC-030174 B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. RHODES 'B' NCT-1

9. WELL NUMBER: 20

10. FIELD AND POOL, OR WILDCAT: RHODES YATES SEVEN RIVER

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SEC. 27, T-26-S, R-37-E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESER. [ ] Other

2. NAME OF OPERATOR: TEXACO EXPLORATION AND PRODUCTION INC.

3. ADDRESS OF OPERATOR: P. O. Box 3109, Midland, Texas 79702

3a. AREA CODE & PHONE NO.: (915) 688-4620

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1420' FSL & 10' FEL, UNIT LETTER: I
At top prod. interval reported below: SAME
At total depth: SAME

9a. API WELL NO.	14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
30-025-31764		10-22-92	LEA	NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11-10-92	11-14-92	12-11-92	GR-2980', KB-2990'	2980'

20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL. HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
3400'	3309'		→	0-3400'	

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*: 3116' - 3290': SEVEN RIVERS

25. WAS DIRECTIONAL SURVEY MADE: YES

26. TYPE ELECTRIC AND OTHER LOGS RUN: GR-DLL-MSFL, GR-DSN-SDL, GR-CCL

27. WAS WELL CORED: NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1150'	12 1/4	950 SX, CIRC. 120 SX	
5 1/2	15.5#	3400'	7 7/8	1080 SX, DNC. 400 SX DOWN	
				BACKSIDE TO SURF.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	3048'	

31. PERFORATION RECORD (Interval, size, and number)
3116-18, 3124-28, 3138-40, 3143-46, 3148-52, 3155-60, 3164-72, 3180-97, 3226-56, 3263-90, w/ 2 JSPF: 204 HOLES

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3116' - 3290'	FRAC: 28544 GAL XLG w/ 88200# 12

33.* PRODUCTION

DATE OF FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping- size and type of pump)	WELL STATUS (Producing or shut-in)
12-08-92	PUMPING - 2.5 x 1.75 x 24	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
12-22-92	24			61	13	531	213

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24 HOUR RATE →	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)
						34.7

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): VENTED FOR TEST PURPOSES ONLY

TEST WITNESSED BY: MIKE LOVE

35. LIST OF ATTACHMENTS: DEVIATION SURVEY

DEC 1992
RECEIVED
Texaco
Hobbs Area

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED C. P. Basham /cwd TITLE DRILLING OPERATIONS MANAGER DATE 12-23-92

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent

Form 3160-4
(July 1989)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING OFFICE FOR NUMBER OF COPIES REQUIRED (See other instructions on reverse side)

BLM Roswell District
Modified Form No.
NM060-3160-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESER. [ ] Other

2. NAME OF OPERATOR
TEXACO EXPLORATION AND PRODUCTION INC.

3. ADDRESS OF OPERATOR
P. O. Box 3109, Midland, Texas 79702

3a. AREA CODE & PHONE NO.
(915) 688-4620

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1543' FSL & 1093' FEL, UNIT LETTER: I
At top prod. interval reported below SAME
At total depth SAME

5. LEASE DESIGNATION AND SERIAL NO.
LC-030174 B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
W. H. RHODES 'B' NCT-1

9. WELL NUMBER
21

10. FIELD AND POOL, OR WILDCAT
RHODES YATES SEVEN RIVER

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SEC. 27, T-26-S, R-37-E

9a. API WELL NO.	14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
30-025-31765		10-22-92	LEA	NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
11-16-92	11-21-92	12-04-92	GR-2974', KB-2984'	2974'

20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL. HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
3400'	3337'		→	0-3400'	

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
3134' - 3317': SEVEN RIVERS

25. WAS DIRECTIONAL SURVEY MADE
YES

26. TYPE ELECTRIC AND OTHER LOGS RUN
GR-DLL-MSFL, GR-DSN-SDL, GR-SONIC

27. WAS WELL CORED
NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	1150'	12 1/4	950 SX, CIRC. 260 SX	
5 1/2	15.5#	3400'	7 7/8	775 SX, CIRC. 10 SX	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	3090'	

31. PERFORATION RECORD (Interval, size, and number)
3134-43, 3156-60, 3165-69, 3173-75, 3176-84, 3189-90, 3200-01, 3211-16, 3261-81, 3284-90, 3298-3310, 3313-17. w/ 2 JSPF: 148 HOLES

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3134' - 3317'	FRAC: 5000 GAL 2% KCL F/B 32000
	GAL XLG KCL w/ 140000# 12/20 SD.

33.* PRODUCTION

DATE OF FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping- size and type of pump)	WELL STATUS (Producing or shut-in)
12-06-92	PUMPING - 2.5 x 1.75 x 24	PRODUCING

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO
12-12-92	24			141	9	331	64

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24 HOUR RATE →	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)
						37.4

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
VENTED FOR TEST PURPOSES ONLY

TEST WITNESSED BY
JOHN VANCE

35. LIST OF ATTACHMENTS
DEVIATION SURVEY

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED C. P. Basham/CWA TITLE DRILLING OPERATIONS MANAGER DATE 12-15-92

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United

PO-108
(8/92)

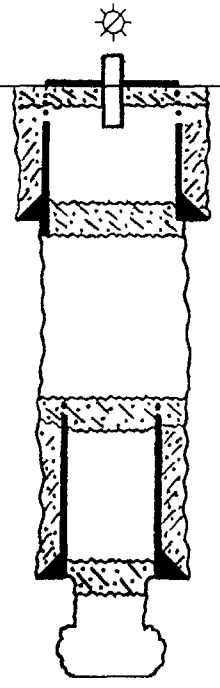
P&A Well DATA SHEET

OPERATOR: Meridian Oil, Inc. **Lease:** Mobil "Q" State #2C

FOOTAGE LOCATION: 660 FSL X 1980 FEL **Sec./Twn/Rng:** Unit O, Sec 21, T-26-S, R-37-E

Former Krupp-Flaherty Oil Corp. Moberly "C" #2, El Paso Lea County, New Mexico

SCHEMATIC



Gr 2976' DF

10' plug at surface

1335' 8-1/4", 32#, 200 sx, TOC @ 290' w/ 100% fill.
50' plug across shoe

2030' estimated top of casing
50' plug across stub

3084' 7", 20#, 200 sx, TOC @ 2030', calc., 67% fill.
50' plug across shoe

3348' TD- open hole

Tops:

Salt	1235'-2810'
Yates	2975'
Seven Rivers	na

*** Plugged and Abandoned 10-29-48

TABULAR DATA

Surface Casing: Set at 1334'

Size 8-1/4, 32# Cemented with 200 sx.

TOC 290' ' determined by calculated

Hole Size 9-7/8" est. Comp. Date 2-04-42

Intermediate casing: Set at _____

Size NONE Cemented with _____ sx.

Note: Cement volumes estimated using 1.18 f3/ft and cable tool bit sizes based on offset wells drilled at the same time.

Production Casing: Set at 3084'

Size 7", 20# Cemented with 200 sx.

TOC 2030 ' determined by calculated

Hole Size 8-3/4" ?, 6-3/4" ? open hole.

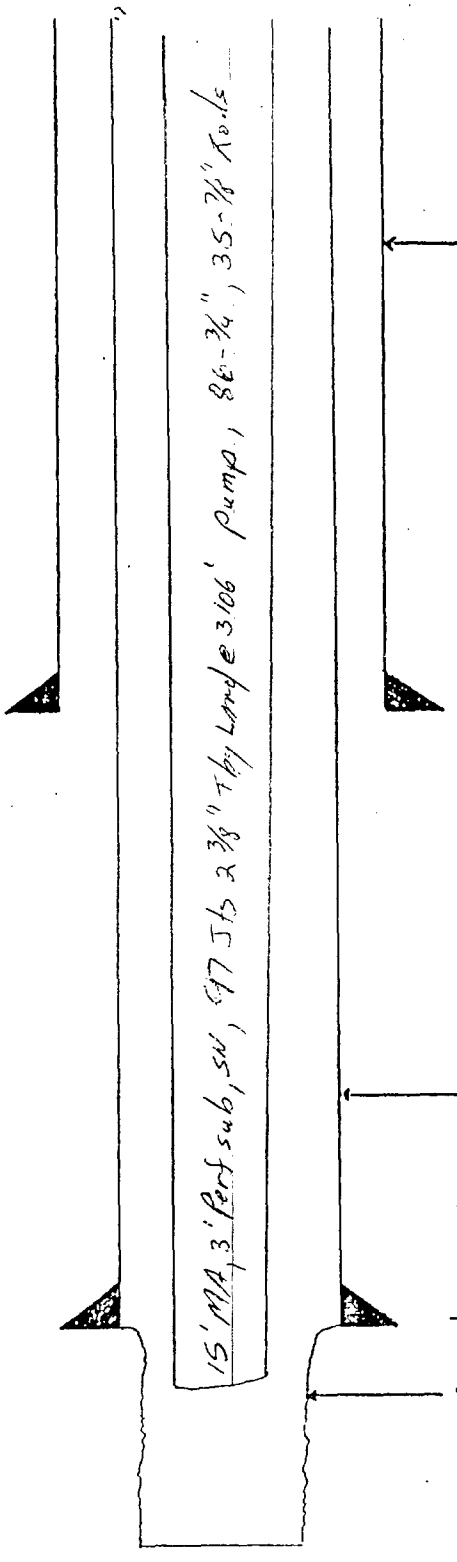
Producing Interval:

3084 ' to 3348 ' through: open hole- nitro

**surface casing possibly cut and pulled at TOC

WELL NAME & No. Rhodes Vista Unit #1

DATE _____



CASING SIZE 8 5/8"
WEIGHT 32#
GRADE
SET @ 1160'
HOLE SIZE 9 7/8"
CEMENT Top 226'

CASING SIZE 7"
WEIGHT 24#
GRADE LW
SET @ 3093
HOLE SIZE 7 3/4
CEMENT 697'

OPEN HOLE SIZE 6 1/4"
shot w/64 Qts
3234'-3253'

PBTD 3253
TD 3253

(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: LC-055262

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Injection Well

TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

7. UNIT AGREEMENT NAME: Rhodes Yates Unit

2. NAME OF OPERATOR: TEXACO Inc.

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P. O. Box 728, Hobbs, New Mexico 88240

9. WELL NO.: 2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 660' FSL & 660' FEL of Sec. 21, T-26-S, R-37-E, Unit Letter I
At top prod. interval reported below
At total depth

10. FIELD AND POOL, OR WILDCAT: Rhodes Yates

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 21, T-26-S, R-37-E

14. PERMIT NO.: Regular | DATE ISSUED: 10-29-73

12. COUNTY OR PARISH: Lea | 13. STATE: N. M.

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
12-22-73	1-1-74	1-12-74	2966' GR	2966'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
3350'	3350'	--	→	0-3350	---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
2 JSPF from 3128-34, 3150-76, 3174-94.

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma-Ray Neutron Log

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7-5/8"	15.28#	600'	9-7/8"	300 sx. Circ	-0-
4-1/2"	10.23#	3350'	6-3/4"	300 sx. TOC @ 1560' T.S.	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	3093'	3093'

31. PERFORATION RECORD (Interval, size and number)
2 JSPF @ 3128-34, 3150-76, 3174-94.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3128-3194	30,000 gals. WF-60gel water, 1500 gals. 15% NEA

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
INJ. 1-12-74	Water Injection 2½ Bbls. per minute	

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [signature] TITLE Asst. Dist. Supt. DATE 1-16-74

*(See Instructions and Spaces for Additional Data on Reverse Side)

FORM ENG-4

TEXACO INC.

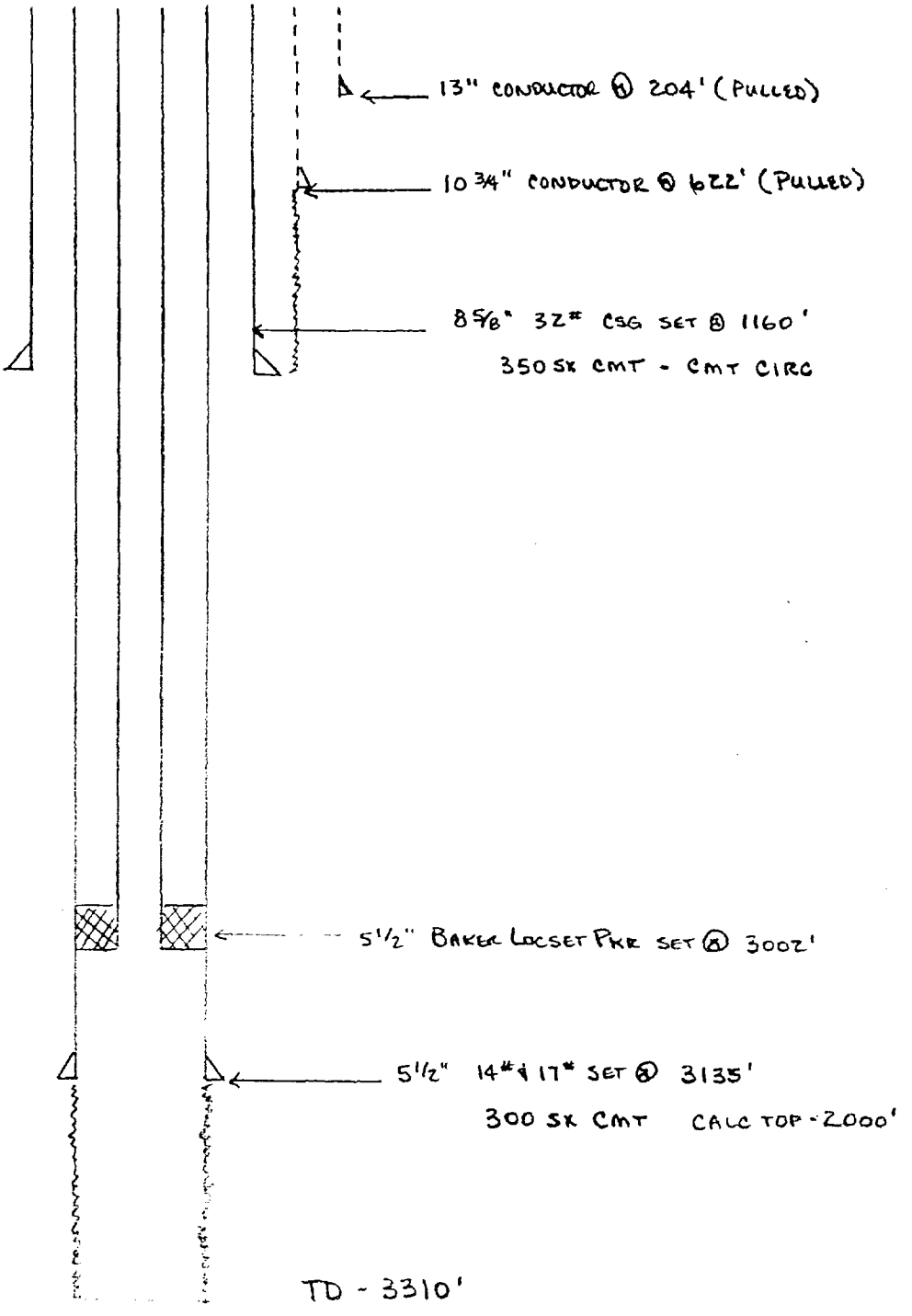
SHEET NO. _____

DATE 3-21-91

LOCATION RHODES YATES UNIT #3 EST. NO. _____ BY LWJ

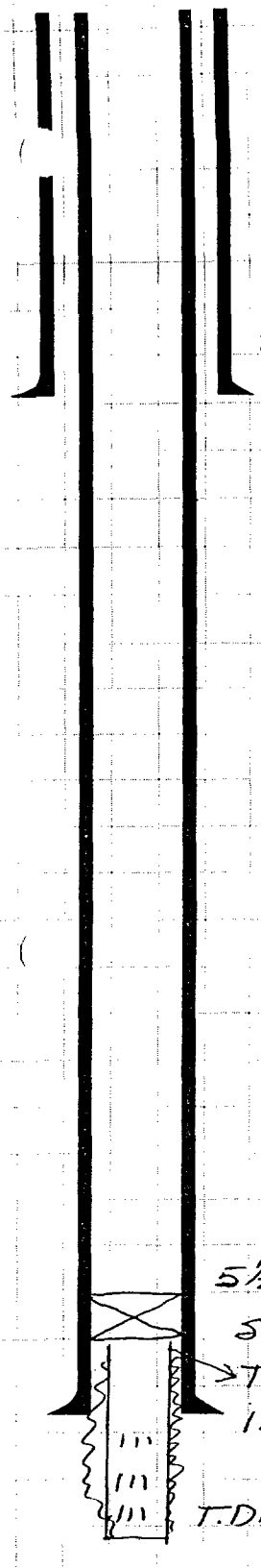
SUBJECT _____ C'K'D _____

COMPLETED JULY 1942 - C1W APRIL 1977 APP'D _____



COMPANY TEXACO
LEASE & WELL NO. Rhodes Yates Well # 5
FORMATION
COUNTY & STATE LEA N M.
6-22-87

CARDINAL SURVEYS COMPANY
"FLUID MOVEMENT SPECIALISTS"
P. O. BOX 74 BUS. (915) 683-8667
MIDLAND, TX 79702 563-4017



11' Hole

8 5/8" 32# LW Set @ 1207' 200 SXS

101 JTS 2 3/8" PLASTIC COATED TBG. 8-R EUE

5 1/2" 14# SMLS @ 3198' 200SXS

5 1/2" BAKER LOC-SET MODEL A W/ 1.781" NIP. AND ON-OFF TOOL SET @ 3078'

TOP @ 3175'

1 1/2" GRAVEL PACKED SLOTTED LINER DRIVEN TO 3330'

T.D. 3340

CONVERSION FACTORS

MULTIPLY	By	TO OBTAIN
Barrels	5.6146	Cubic Feet
Cubic Feet	7.4806	Gallons
Gallons	0.1337	Cubic Feet
Pounds/gal.	7.4806	Pounds/Cu. Ft.

PIPE VOLUMES

0.00545 x I.D.^{2} in inches = Cu. Ft./Ft.
0.0407 x I.D.^{2} in inches = Gals./Ft.
0.00097 x I.D.^{2} in inches = Bbls./Ft.

HYDROSTATIC PRESSURE

FOR WATER:
0.434 x Depth in Feet = PSI.
FOR OTHER FLUIDS:
0.434 x Depth x Sp. Gr. = PSI.

PO-108

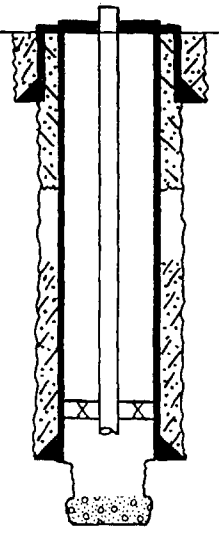
INJECTION WELL DATA SHEET

OPERATOR: Texaco Exploration & Production Inc. **WELL:** Rhodes Yates Unit #7 WIW

FOOTAGE LOCATION: 1650 FNL, 2310 FWL **Sec./Twn/Rng:** Unit F, Section 27, T-26-S, R-37-E

Former Amerada State J 'A' #1, Texaco State 'JD' Unit #4, Lea County, New Mexico

SCHEMATIC



Gr 2990' DF
(KB=10')
676' 7-5/8", 22#, 175 sx, TOC @ surf., calc.
731' Annulus SQZD 300 sx, cement circ, 5/81
3016' Gibrsn Uni-VI Packer
3115' 5-1/2", 14#, 200 sx, TOC @ 1700', calc. 50%
3279' TD - Open Hole

Estimated Tops:
Salt 1168'- 2786'
Yates 2945'
Seven Rivers na

** Additional perfs from 3090'-3110'

TABULAR DATA

Surface Casing: Set at: 676 '

Size 7-5/8, 22# Cemented with 175 sx.

TOC surface ' determined by caclcuated

Hole Size 9-7/8" Comp. Date 12-22-40

Intermediate casing: Set at: _____ '

Size none Cemented with _____ sx.

TOC _____ ' determined by _____

Hole Size _____

Production Casing: Set at: 3115 '

Size 5-1/2", 14# Cemented with 200 sx.

TOC 1700'/surf.' determined by calculated (50% fill)

Hole Size 6-3/4", 4-3/4" open hole

Injection Interval:

3090 ' to 3327 ' through: open hole, perfs

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

FORM ENG-4

TEXACO INC.

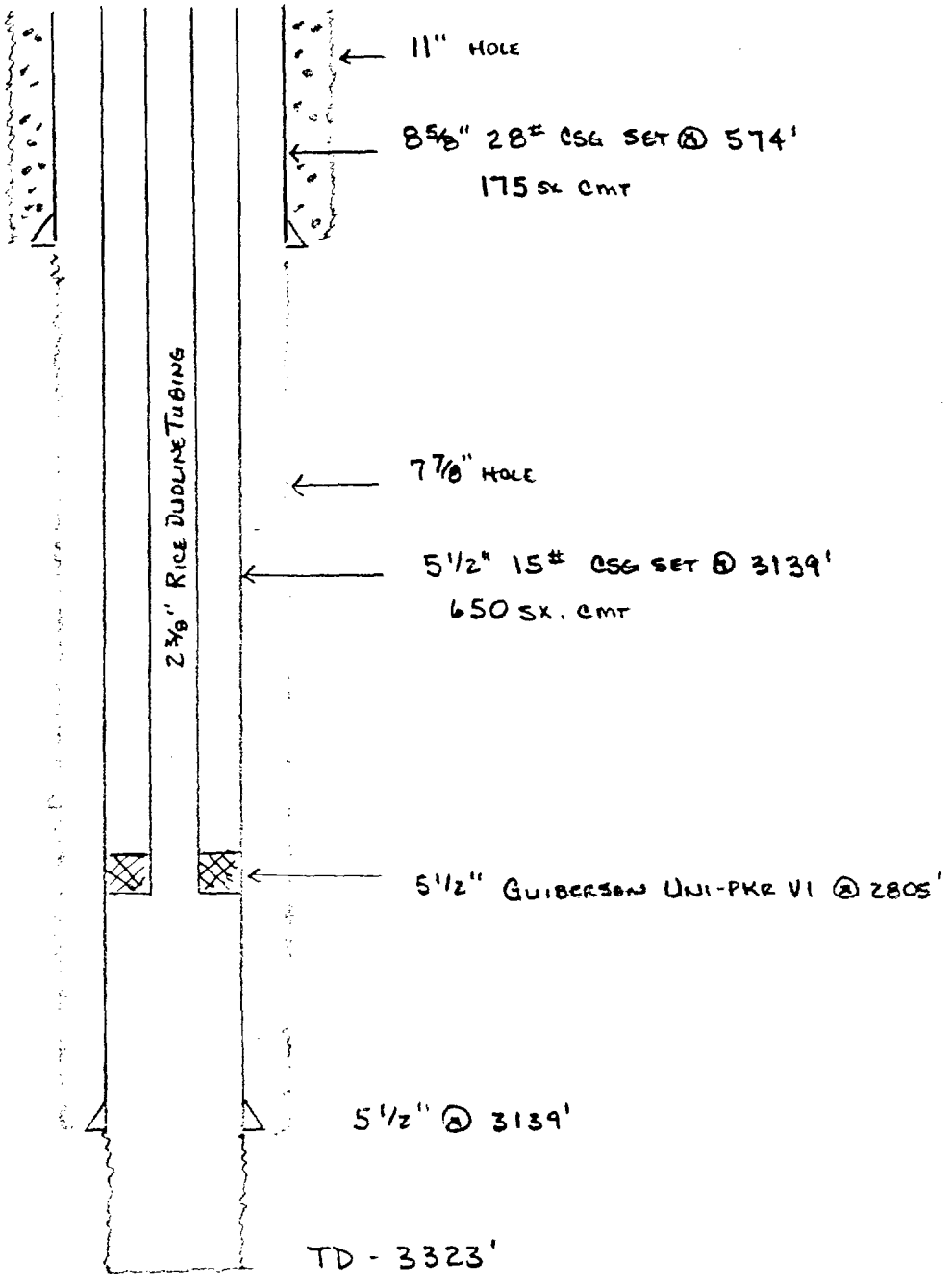
SHEET NO. _____

DATE 3-21-91

LOCATION RHODES YATES UNIT # 9 EST. NO. _____ BY LWJ

SUBJECT _____ C'K'D _____

_____ APP'D _____



PO-108

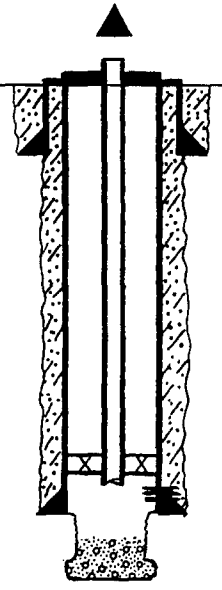
INJECTION WELL DATA SHEET

OPERATOR: Texaco Exploration & Production Inc. **WELL:** Rhodes Yates Unit #10 WIW

FOOTAGE LOCATION: 2310 FSL, 660 FWL **Sec./Twn/Rng:** Unit L, Section 27, T-26-S, R-37-E

Additional pay will be added to Middle Yates. DF = 2996' Lea County, New Mexico

SCHEMATIC



Gr 2987' GL

595' 8 5/8", 28#, H-40, 175 sx, cem circ.

3100' Gibrsn Uni-VI Packer

3158' 5 1/2", 15#, H-40, 650 sx, cem circ.

3327' TD - Open Hole

3287'-3307 Shot w/ 100 qts

3260'-TD 20/40 Resin-Coated Sand Pack

Estimated Tops:

Salt	1400'- 2870'
Yates	3008'
Oil Pay	3287'

** Additional perfs from 3122'-3153'

TABULAR DATA

Surface Casing: Set at: 595 '

Size 8 5/8, 28# Cemented with 175 sx.

TOC surface ' determined by circulated

Hole Size NR Comp. Date 4-26-43

Intermediate casing: Set at: _____ '

Size none Cemented with _____ sx.

TOC _____ ' determined by _____

Hole Size _____

Production Casing: Set at: 3158 '

Size 5 1/2", 15# Cemented with 650 sx.

TOC surface ' determined by circulated

Hole Size 7 7/8'

Injection Interval:

3122 ' to 3327 ' through: Open Hole

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

PO-108

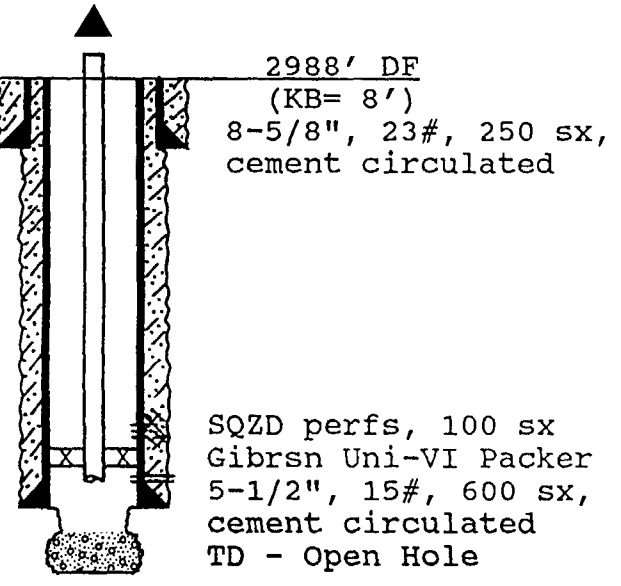
INJECTION WELL DATA SHEET

OPERATOR: Texaco Exploration & Production Inc. **WELL:** Rhodes Yates Unit #12 WIW

FOOTAGE LOCATION: 990 FSL, 2310 FWL **Sec./Twn/Rng:** Unit N, Section 27, T-26-S, R-37-E

Former Anderson-Pritchard Oil Corp. Gregory Morris (B) #3 Lea County, New Mexico

SCHEMATIC



Driller's Tops:

Salt	1170'- 2830'
Yates	2988'
Seven Rivers	na

** Additional perfs from 3136'-3170'

TABULAR DATA

Surface Casing: Set at: 688 '

Size 8-5/8, 23# Cemented with 250 sx.

TOC surface ' determined by circulated

Hole Size 12-1/4" Comp. Date 11-22-45

Intermediate casing: Set at: _____ '

Size none Cemented with _____ sx.

TOC _____ ' determined by _____

Hole Size _____

Production Casing: Set at: 3174 '

Size 5-1/2", 15# Cemented with 600 sx.

TOC surface ' determined by circulated

Hole Size 7-7/8", 4-3/4" open hole

Injection Interval:

3136 ' to 3330 ' through: open hole, perfs

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

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

BLM-Roswell District
attn: Gary Gourley
P.O. Box 1397
Roswell, NM 88202-1397

4a. Article Number
P- 369- 424-255

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
4/15/93

5. Signature (Addressee)
Carol Gurley

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)
B H

PS Form **3811**, December 1991 ☆ U.S.G.P.O. : 1992-307-530 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

NMOCD
attn: Ben Stone
P.O. Box 2088
Santa Fe, NM 87504

4a. Article Number
P-369- 424- 254

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
APR 15 1993

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)
Michelle D Fowler

PS Form **3811**, November 1990 ☆U.S. GPO: 1991—287-066 **DOMESTIC RETURN RECEIPT**

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
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- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Tom & Evelyn Linebery
802 S. Main
Midland, Texas 79701

4a. Article Number
P- 369-424-253

4b. Service Type
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
4-16-93

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)
Bobbie Jackson

PS Form **3811**, December 1991 ☆ U.S.G.P.O. : 1992-307-530 **DOMESTIC RETURN RECEIPT**

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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

4a. Article Number
P- 369-424-259

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
4-12-93

5. Signature (Addressee)
M. Salgado

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

PS Form 3811, December 1991 ☆ U.S.G.P.O. : 1992-307-530 DOMESTIC RETURN RECEIPT

SENDER:
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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

4a. Article Number
P-369-424-252

4b. Service Type
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
4-12-93

5. Signature (Addressee)
Kay Stanford

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530 **DOMESTIC RETURN RECEIPT**

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Meridian Oil, Inc.
P.O. Box 51810
Midland, Texas 79710

4a. Article Number
P 369-424-260

4b. Service Type
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
APR 12 1993 4-12-93

5. Signature (Addressee)

6. Signature (Agent)
W Mellis

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530 **DOMESTIC RETURN RECEIPT**

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

4a. Article Number
P-369-424-407

4b. Service Type
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
APR 12 1993

5. Signature (Addressee)

6. Signature (Agent)
Albert Gonzales

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530 **DOMESTIC RETURN RECEIPT**

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- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

OXY USA Inc.
P.O. Box 300
Tulsa, Oklahoma 74102

4a. Article Number
P-369-424-258

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery APR 12 1993

5. Signature (Addressee)
Chris W. Dial

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530 **DOMESTIC RETURN RECEIPT**

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

4a. Article Number
P-369-424-251

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
4-12-93

5. Signature (Addressee)
D Mattenday

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530 **DOMESTIC RETURN RECEIPT**

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- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

OK

4a. Article Number
P-369-424-250

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
4-12-93

5. Signature (Addressee)
Gay Claspole

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 ☆ U.S.G.P.O.: 1992-307-530 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

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

April 8 , 19 93
and ending with the issue dated

April 8 , 19 93

Kathi Bearden
General Manager
Sworn and subscribed to before

me this 9 day of
April , 19 93
Charlene Perrin
Notary Public.

My Commission expires
March 15, 1997
(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
April 8, 1993

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 Location(s):

4-Unit Letter A, 560 FNL & 660 FEL, Section 28, T26S, R37E

6-Unit Letter C, 660 FNL & 1980 FWL, Section 27, T26S, R37E

11-Unit Letter K, 2310 FSL & 2310 FWL, Section 27, T26S, R37E

Lease/Unit Name:
W.H. Rhodes
B Fed NCT-1

Well Number(s) and Location(s):

1-Unit Letter G, 1650 FNL & 1650 FEL, Section 27, T26S, R37E

8-Unit Letter M, 660 FSL & 660 FWL, Section 26, T26S, R37E

14-Unit Letter E, 1980 FNL & 864 FWL, Section 26, T26S, R37E

15-Unit Letter A, 660 FNL & 660 FEL, Section 27, T26S, R37E

Lease/Unit Name:
W.H. Rhodes
B Fed NCT-2

Well Number(s) and Location(s):

3-Unit Letter I, 1980 FSL & 660 FEL, Section 28, T26S, R37E

4-Unit Letter P, 660 FSL & 660 FEL, Section 28, T26S, R37E

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