

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ 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? ☒ yes ☐ no R-2748,48A, 3889, 4521/22,
If yes, give the Division order number authorizing the project 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 ManagerSignature: T. L. Frazier / RSP 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

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.



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

4-14-93

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD _____
WFX X _____
PMX _____

Rhodes gates Unit 4-A 28-26-37
6-C 27-26-31
11-K 27-26-37
W H Rhodes Fed No T-1 #1-G 27-26-37
#8-m 26-26-37
#14-E "
#15-A 27-26-37
W H Rhodes B Fed No T-2 #3-I 28-26-37
#4-P 28-26-37

Gentlemen:

I have examined the application for the:

Jexaco Expl. & Prod. Inc.
Operator

Lease & Well No. Unit

S-T-R

and my recommendations are as follows:

OIL

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/ed

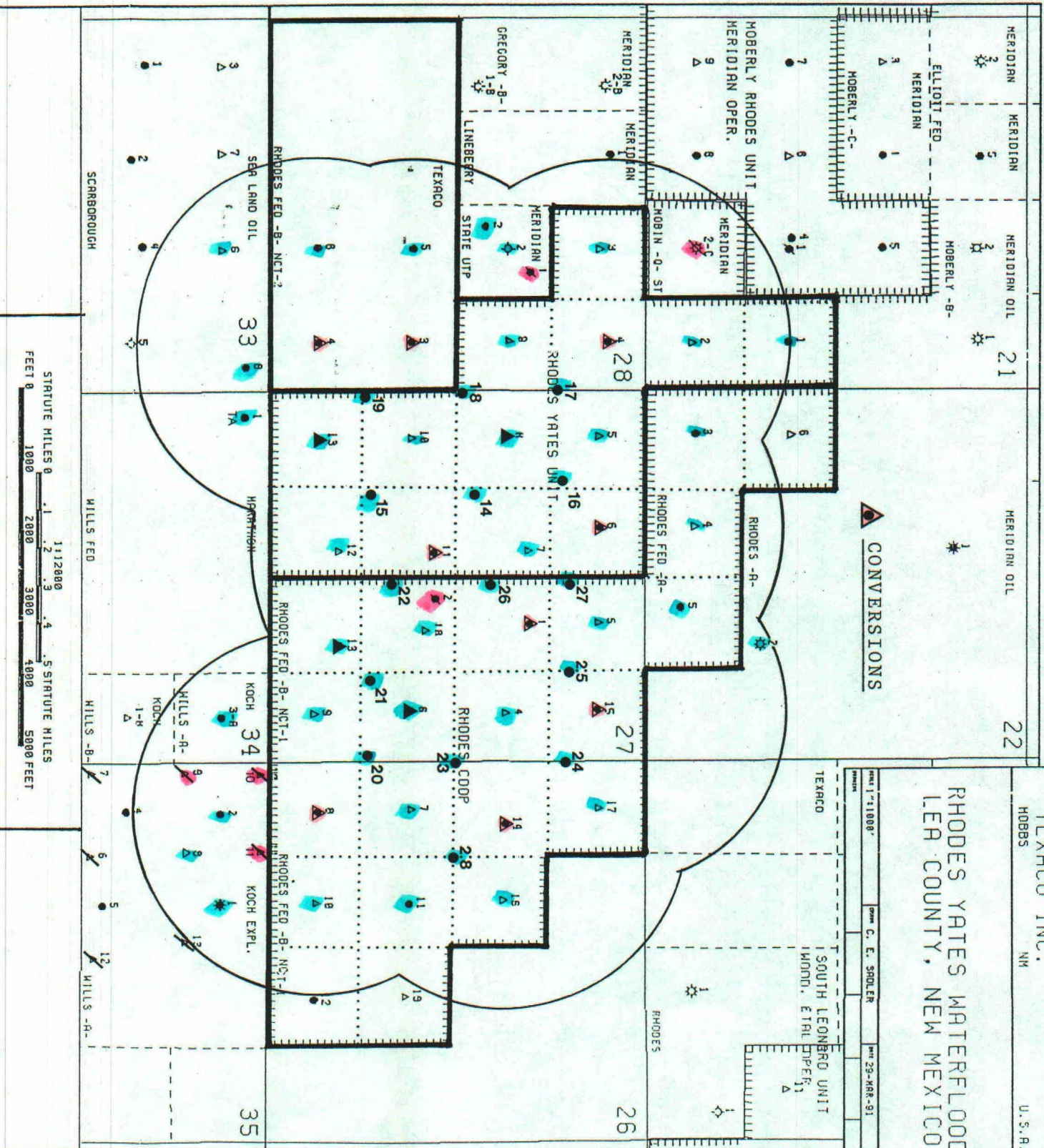
TEXACO INC.
HOBBS NM U.S.R.

RHODES YATES WATERFLOOD
LEER COUNTY, NEW MEXICO

SCALE 1"=1000'
DATE C. E. SPOLER
REV 23-MAR-91

CONVERSIONS

TEXACO
SOUTH LEONARD UNIT
10000. ETRIL DUPER



U.S.A.

RHODES YATES WATERFLOOD
LEA COUNTY, NEW MEXICO

DATE	29-MAR-91
DRUM	C. E. SADLER
SCALE	1"=100'
DESCRIPTION	

NAME	C. E. SADLER
------	--------------

DATE 29-MAR-91

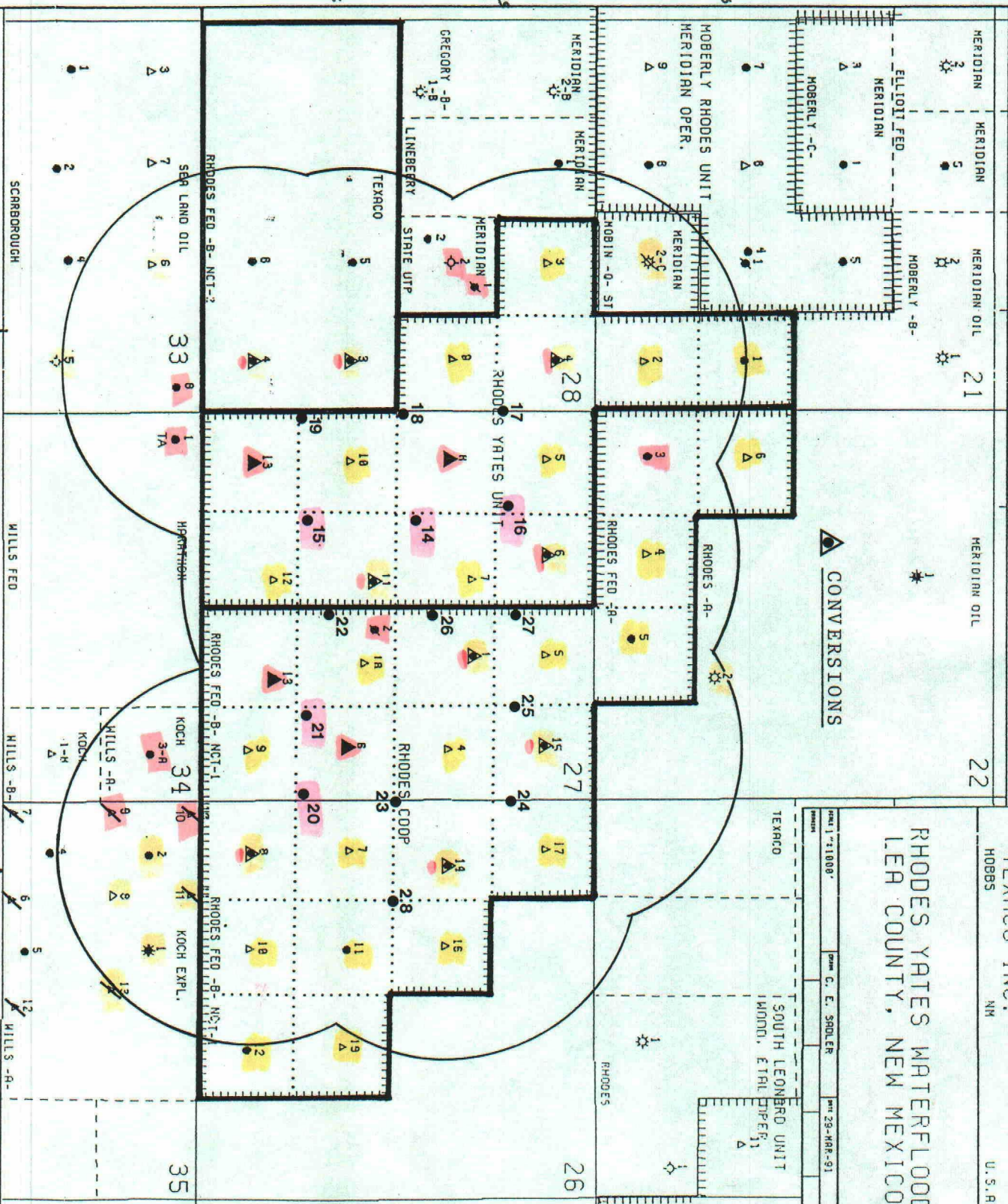
TEXACO
SOUTH LEONARD UNIT
WOOD, ETAL OPER

1

Well bore Drawings
included in this
Package

New wells:
Completion Reports

well bore drawings
in last package



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

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

- 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

W.H. Rhodes B Fed NCT-2 - Rhodes Yates Seven Rivers

- 3 - Unit Letter I, 1980 FSL & 660 FEL, Section 28, T26S, R37E
- 4 - Unit Letter P, 660 FSL & 660 FEL, Section 28, 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. The Rhodes Cooperative waterflood presently consists of the Rhodes Yates Unit, Rhodes A, and Rhodes B NCT-1 leases. The Coop will be expanded to include the Rhodes B NCT-2 lease which has the same lease royalties and working interest percentages as the Rhodes B NCT-1 lease.
- VI. Data for sections VI, VIII, X and XI have been previously submitted under NMOCDC 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 current Phase I development plan was submitted for NMOCDC 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 #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 NMOCDC in Hobbs and the BLM in Roswell, and both have given their approval.

Six wells have been plugged within the area of review up to 1991. Meridian Oil Inc's State UTP #1 was plugged 3-27-92. Texaco E&P Inc's W.H. Rhodes B NCT-1 #2 was plugged on 12-08-92. Wellbore schematics for five P&A wells not included in the last application are attached. Additional schematics for other wells within the area of review are also attached. These are presented in a counter clockwise order starting with the Rhodes A #2. Sea Sand Oil Co.'s Mary E. Wills Fed lease in

section 33 is labeled as the Scarborough lease on the map.

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

Rhodes A, Rhodes B NCT-1 & 2 - Rhodes Yates Seven Rivers

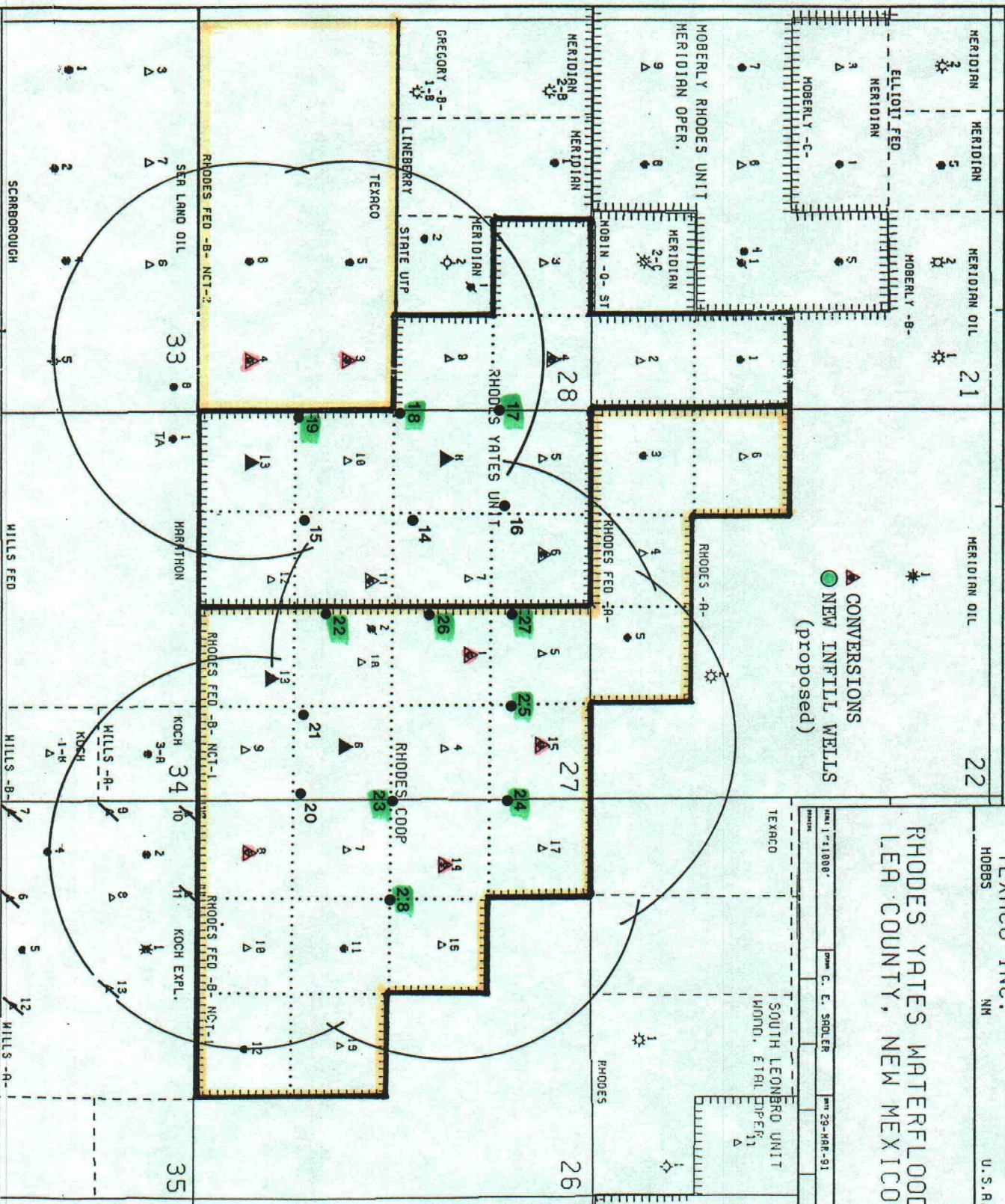
- VII. Proposed average daily injection rate per well is 400 Bbls per day and anticipated maximum rate is 600 Bbls per day. The initial average surface injection pressure will not exceed approximately 600 psi (.2 psi/ft). Step rate tests will be run to establish higher limits with the authorization of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

TEXACO INC. U.S.A.
HOBBS NM

RHODES YATES WATERFLOOD
LEA COUNTY, NEW MEXICO

Scale 1" = 1000'
Drawn by C. E. SPOILER
Date 28-MAR-91

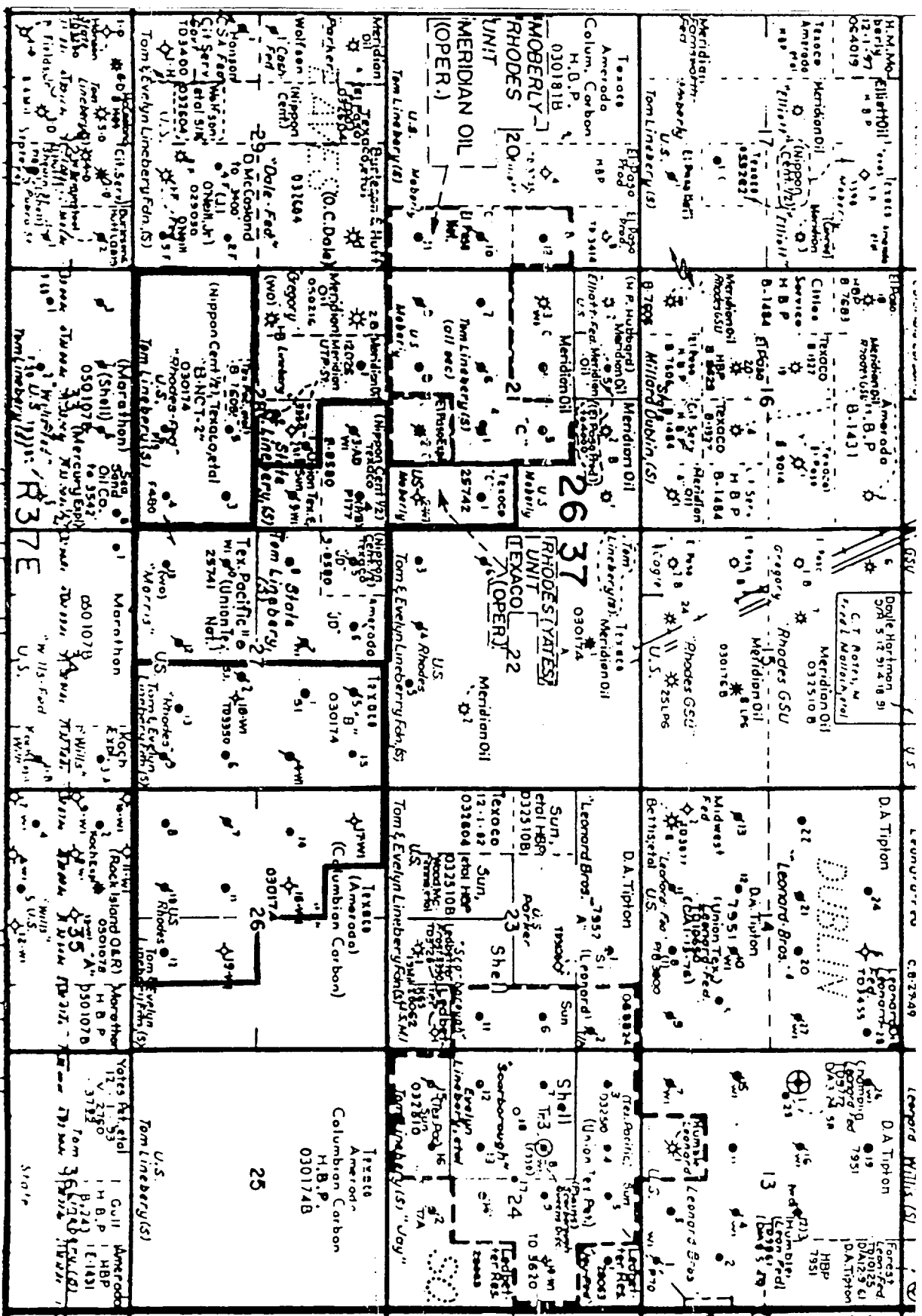
▲ CONVERSIONS
● NEW INFILL WELLS
(proposed)



STATUTE MILES 0 .1 .2 .3 .4 .5
FEET 0 1000 2000 3000 4000 5000

RHODES YATES FIELD

LEA COUNTY, NEW MEXICO


$$I'' = 3000'$$

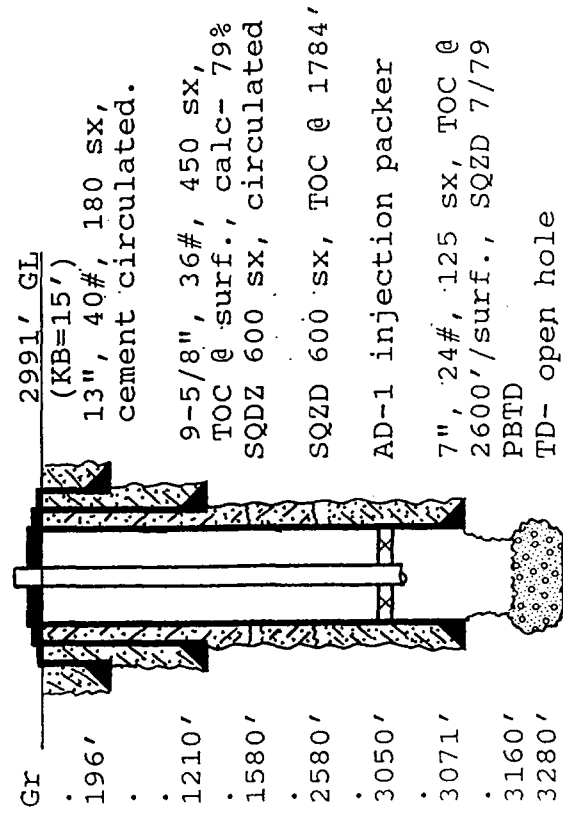
PROPOSED INJECTION WELL CONVERSION

OPERATOR: Texaco Exploration & Production Inc. Lease: W. H. Rhodes B Fed NCT-1 #1.

FOOTAGE LOCATION: 1650 FNL X 1650 FEL Sec./Twn/Rng: Unit G, Sec 27, T-26-S, R-37-E

Lea County, New Mexico

SCHEMATIC



Note: 6-1/8" bit and sub lost on top of fill at 3160', clean out to 3260'.
Drill out CIBP at 2975'.

Tops:

Salt 1258'-2730'
Yates 2945'
Seven Rivers na
Queen na

TABULAR DATA

Surface Casing:	Set at	196'
Size 13", 40#	Cemented with	180 sx.
TOC surface	determined by	circulation
Hole Size ??	Comp. Date	2-13-40
Intermediate casing:	Set at	
Size 9-5/8", 36#	Cemented with	450 sx.
TOC surface	determined by	calculation
Hole Size 12-1/2"	assumed, 79 % fill	
Production Casing:	Set at	3071'
Size 7", 24#	Cemented with	125 sx.

TOC 2600' / surf. determined by SQZ/ circ.
Hole Size ??, annulus squeezed with 1200 sx

Injection Interval: open hole

3071' to 3260' Size 6-1/8", nitro shot

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

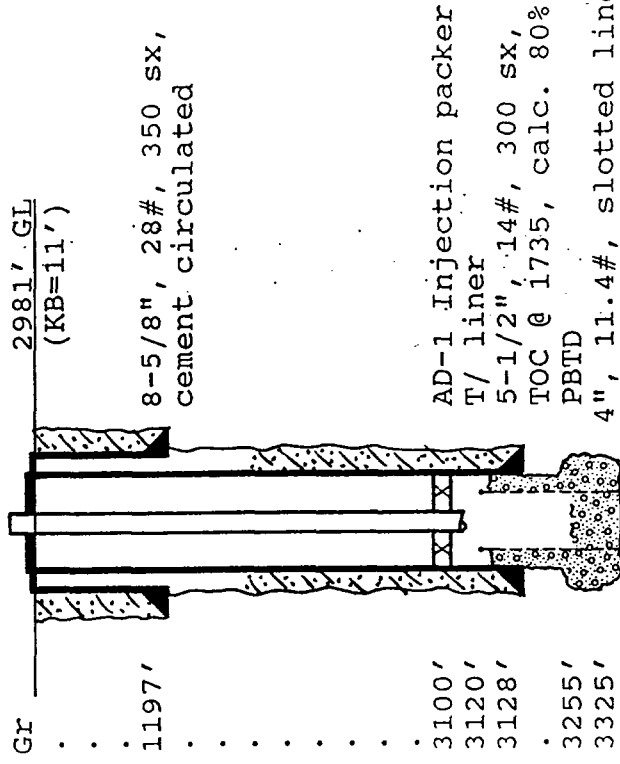
PROPOSED INJECTION WELL CONVERSION

OPERATOR: Texaco Exploration & Production Inc. Lease: Rhodes B Fed NCT-1 #8

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

Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at 1197'

Size 8-5/8, 28# Cemented with 350 sx.

TOC surface , determined by circulated

Hole Size 11" Comp. Date 10-16-44

Intermediate casing: Set at

Size NONE Cemented with sx.

TOC , determined by

Hole Size

Production Casing: Set at 3128'

Size 5-1/2", 14# Cemented with 300 sx.

TOC 1735 , determined by calculated

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

Injection Interval:

3128' to 3255' through: open hole

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

Tops: 1210'-2795'

Salt 2941'

Yates na

Seven Rivers na

PROPOSED INJECTION WELL CONVERSION

OPERATOR: Texaco Exploration & Production Inc. Lease: Rhodes B Fed NCT-1 #14

FOOTAGE LOCATION: 1980 FNL X 864 FWL Sec./Twn/Rng: Unit E, Sec 26, T-26-S, R-37-E

Lea County, New Mexico

SCHEMATIC

TABULAR DATA

Surface Casing: Set at 1197'

Size 7-5/8, 15&24# Cemented with 600 sx.

TOC surface ' determined by circulated

Hole Size 9-7/8" Comp. Date 2-16-67

Intermediate casing: Set at

Size NONE Cemented with sx.

TOC ' determined by

Hole Size

Production Casing: Set at 3295'

Size 4-1/2", 9.5# Cemented with 425 sx.

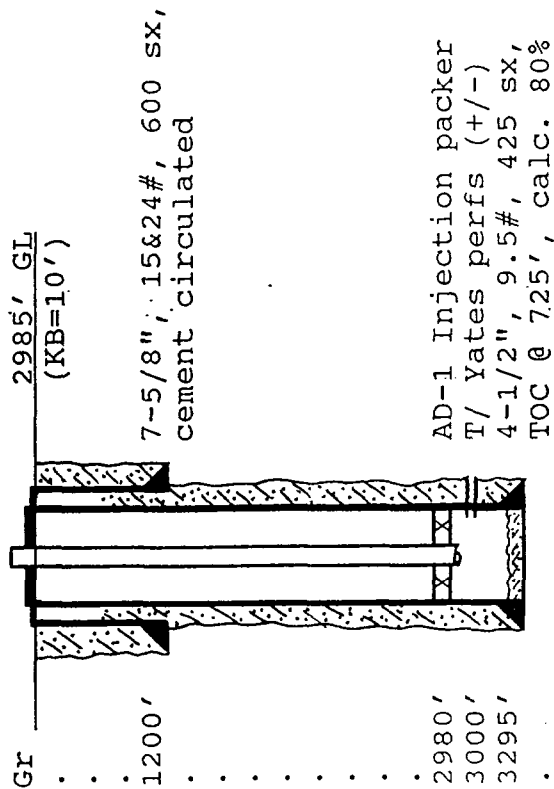
TOC 725 ' determined by calculated

Hole Size 6-3/4"

Injection Interval:

3000' to 3200' through: perforations

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



Note: current perfs from 3160'-3240', add new perfs from 3120' up to 3000'.

Tops:
Salt 1465'-2690'
Yates 2990'
Seven Rivers na

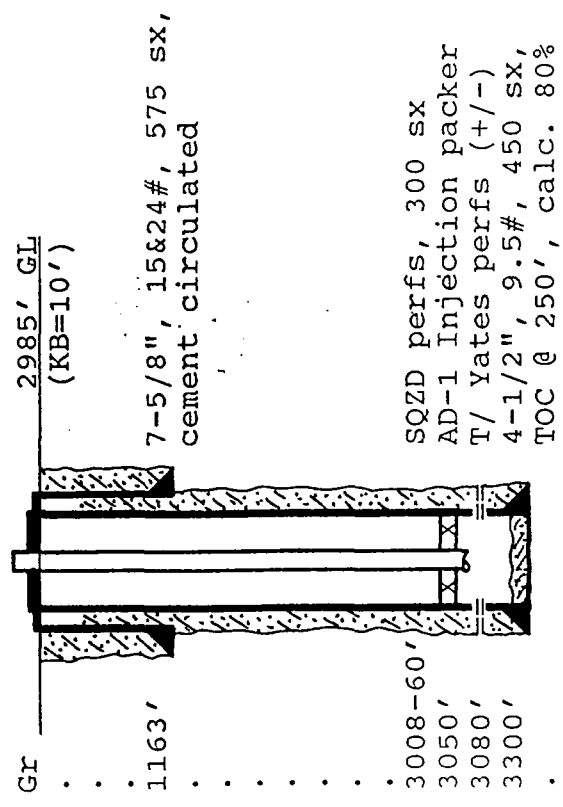
PROPOSED INJECTION WELL CONVERSION

OPERATOR: Texaco Exploration & Production Inc. Lease: Rhodes B Fed NCT-1 #15

FOOTAGE LOCATION: 660 FNL X 660 FEL Sec./Twn/Rng: Unit A, Sec 27, T-26-S, R-37-E

Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at 1163'
 Size 7-5/8, 15&24# Cemented with 575 sx.
 TOC surface , determined by circulated
 Hole Size 9-7/8" Comp. Date 3-01-67
 Intermediate casing: Set at _____
 Size NONE Cemented with _____ sx.
 TOC _____ , determined by _____
 Hole Size _____
 Production Casing: Set at 3300'
 Size 4-1/2", 9.5# Cemented with 450 sx.
 TOC 250 , determined by calculated
 Hole Size 6-5/8"

PBTB @ 3264'

Note: current perfs from 3134'-3195', add new perfs from 3100' up to 3080'.

Injection Interval:

Tops: 1458'-2696'
 Salt 2992'
 Yates na
 Seven Rivers na
3080' to 3195' through: perforations
 Tubing: 2-3/8", 4.7#, J-55, IPC 2000# WP

PO-113
(5/91)

Lea County, New Mexico

TABULAR DATA

Size 8-5/8, 32# Cemented with 200 sx.

Hole Size ? Comp. Date 6-21-43

Size NONE Cemented with sx.

Hole Size

Size 5-1/2", 15# Cemented with 300 sx.

Hole size 6-3/4" ? (assumed 50% fill)

3116 ' to 3300 ' size 4-3/4", nitro shot

Tubing: 2-7/8", 4.7#, J-55, ICC 2000# WP

Note: Drill out CIBP at 3180'

Salt	1200'-2850'
Yates	3014'
Seven Rivers	3340'
Queen	NR

PROPOSED INJECTION WELL CONVERSION

OPERATOR: Texaco Exploration & Production Inc. Lease: Rhodes B Fed NCT-2 #4
 FOOTAGE LOCATION: 660 FSL X 660 FEL Sec./Twn/Rng: Unit A, Sec 28, T-26-S, R-37-E
Lea County, New Mexico

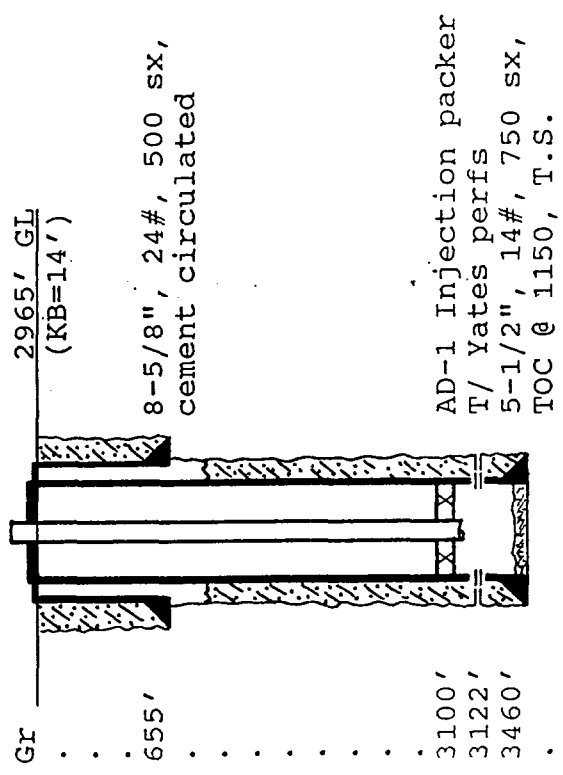
SCHEMATIC

TABULAR DATA

Surface Casing: Set at 655'
 Size 8-5/8", 24# Cemented with 500 sx.
 TOC surface ' determined by circulated
 Hole Size 12-1/4" Comp. Date 2-24-78
 Intermediate casing: Set at
 Size NONE Cemented with sx.
 TOC ' determined by
 Hole Size
 Production Casing: Set at 3460'
 Size 5-1/2", 14# Cemented with 750 sx.
 TOC 1150 ' determined by temp. surv.
 Hole Size 7-7/8"

Injection Interval:

3122' to 3318' through: perfs
 Tubing: 2-3/8", 4.7#, J-55, ICC 2000# WP



PBTD = 3433'

Note: pull RBP set at 3282'.

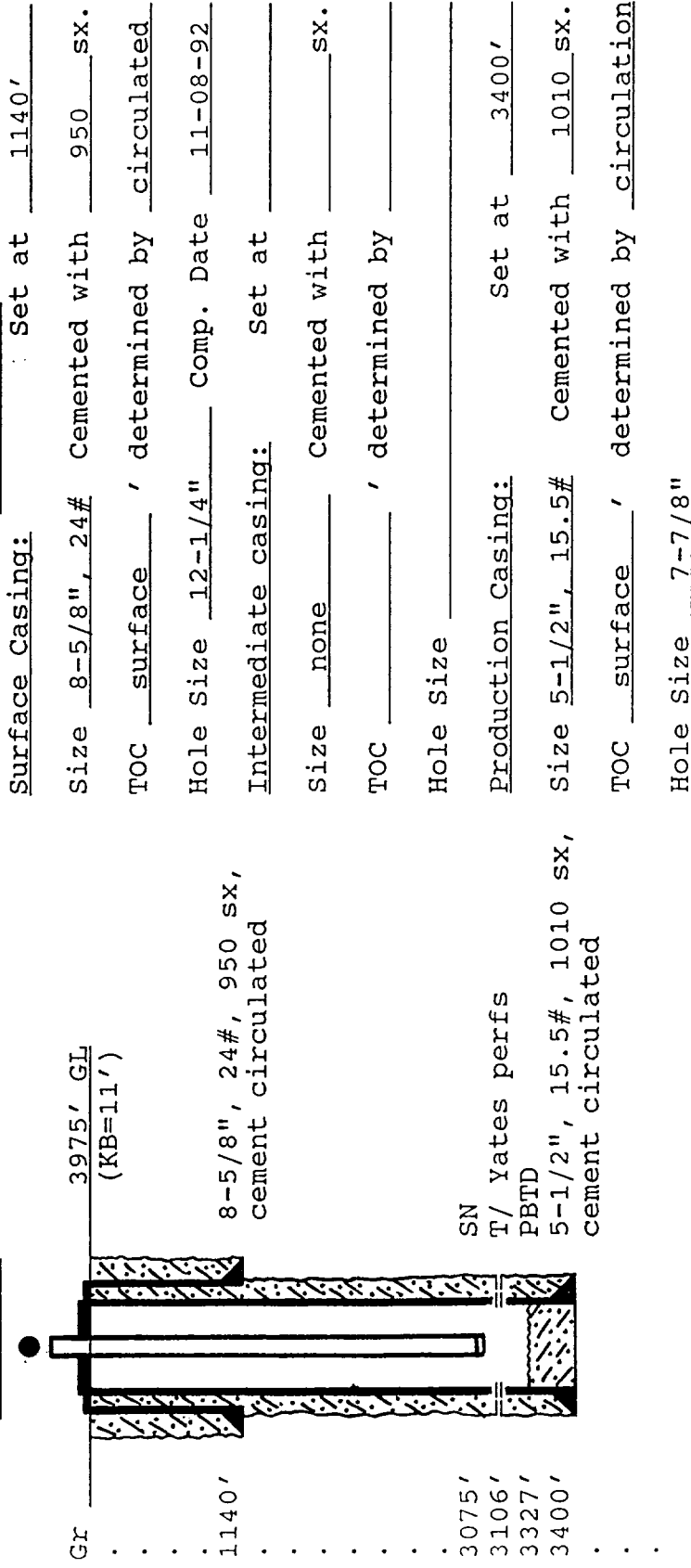
Tops:
 Salt 1255'-2810'
 Yates 3122'
 Seven Rivers 3374'

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



Producing Interval:

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

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

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

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 AP NO.

30-025-31731

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B-1431-3

7. Lease Name or Unit Agreement Name

RHODES YATES UNIT

8. Well No.

14

9. Pool name or Wildcat

RHODES YATES SEVEN RIVERS

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☒

GAS WELL ☐

DRY ☐

OTHER ☐

1b. Type of Completion:

NEW
WELL ☒

WORK
OVER ☐

DRIPPER ☐

PLUG
BACK ☐

DIFF
RESER ☐

OTHER ☐

2. Name of Operator

TEXACO EXPLORATION & PRODUCTION INC.

3. Address of Operator

P. O. Box 3109, Midland, Texas 79702

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

10-27-92

11. Date T.D. Reached

11-01-92

12. Date Compl. (Ready to Prod.)

11-13-92

13. Elevations (DF & RKB, RT, GR, etc.)

GR-2976', KB-2986'

14. Elev. Casinghead

2976'

15. Total Depth

3400'

16. Plug Back T.D.

3376'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

0 - 3400'

Cable Tools

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

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

Date First Production 11-25-92		Production Method (Flowing, gas lift, pumping - Size and type pump) PUMPING, 2.5 X 1.75 X 24					Well Status (Prod. or Shut-in) PRODUCING	
Date of Test 11-25-92	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 52	Gas - MCF 8	Water - Bbl. 430	Gas - Oil Ratio 154	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Conv.) 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

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 ☒ GAS WELL ☐ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ 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 1516' FSL & 1453' FWL, UNIT LETTER: K

At top prod. interval reported below SAME

At total depth SAME

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

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

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

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. 118 SX	

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
					2 7/8	3131'

31. PERFORATION RECORD (Interval, size, and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
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				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 11-20-92
PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) PUMPING - 2.5 x 1.75 x 24
WELL STATUS (Producing or shut-in) PRODUCING

DATE OF TEST 12-13-92
HOURS TESTED 24
CHOKE SIZE
PROD'N. FOR TEST PERIOD
OIL - BBL. 49
GAS - MCF. 29
WATER - BBL. 37.4
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.)
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)

Send 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 AP NO. 30-025-31732
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-8580-1
7. Lease Name or Unit Agreement Name RHODES YATES UNIT
8. Well No. 16
9. Pool name or Wildcat RHODES YATES SEVEN RIVERS

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____	1. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESRV ☐ OTHER _____	2. Address of Operator P. O. Box 3109, Midland, Texas 79702
3. Well Location Unit Letter <u>C</u> : 1295 Feet From The <u>NORTH</u> Line and 1357 Feet From The <u>WEST</u> Line	

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

10. Date Spudded 10-20-92	11. Date T.D. Reached 10-26-92	12. Date Compl. (Ready to Prod.) 11-08-92	13. Elevations (DF & RKB, RT, GR, etc.) GR-2975', KB-2986'	14. Elev. Casinghead 2975'
15. Total Depth 3400'	16. Plug Back T.D. 3327'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools 0 - 3400'	Cable Tools
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

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					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	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 3106' - 3326' AMOUNT AND KIND MATERIAL USED ACID - 3300 GAL 15% NEFE FRAC - 33000 GAL XLG & 112000# 12/20 SD
---	---

28. PRODUCTION							
Date First Production 11-04-92		Production Method (Flowing, gas lift, pumping - Size and type pump) PUMPING, 2.5 X 1.75 X 24				Well Status (Prod. or Shut-in) PRODUCING	
Date of Test 11-12-92	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 96	Gas - MCF 15	Water - Bbl. 189	Gas - Oil Ratio 456
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Hole 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 / 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*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____				5. LEASE DESIGNATION AND SERIAL NO. LC-030174 B	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR TEXACO EXPLORATION AND PRODUCTION INC.				7. UNIT AGREEMENT NAME	
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				8. FARM OR LEASE NAME W. H. RHODES 'B' NCT-1	
9a. API WELL NO. 30-025-31764				12. COUNTY OR PARISH LEA	
14. PERMIT NO.				13. STATE NM	
15. DATE SPUDDED 11-10-92		16. DATE T.D. REACHED 11-14-92		19. ELEV. CASINGHEAD 2980'	
17. DATE COMPL. (Ready to prod.) 12-11-92		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* GR-2980', KB-2990'		20. TOTAL DEPTH, MD & TVD 3400'	
21. PLUG BACK T.D., MD & TVD 3309'		22. IF MULTIPLE COMPL. HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS 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)	
8 5/8		24#		1150'	
5 1/2		15.5#		3400'	
				HOLE SIZE	
				12 1/4	
				7 7/8	
				CEMENTING RECORD	
				950 SX, CIRC. 120 SX	
				1080 SX, DNC. 400 SX DOWN	
				BACKSIDE TO SURF.	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
				SACKS CEMENT*	
				SCREEN (MD)	
				2 7/8	
				DEPTH SET (MD)	
				3048'	
				PACKER SET (MD)	
30. TUBING RECORD					
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 12-08-92		PRODUCTION METHOD (Flowing, gas lift, pumping- size and type of pump) PUMPING - 2.5 x 1.75 x 24			WELL STATUS (Producing or shut-in) PRODUCING
DATE OF TEST 12-22-92		HOURS TESTED 24	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL. 61
					GAS - MCF. 13
					WATER - BBL. 531
					GAS - OIL RATIO 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					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>C. P. Basham / cwh</u> TITLE <u>DRILLING OPERATIONS MANAGER</u> DATE <u>12-23-92</u>					

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

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.
NMO60-3160-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____
b. TYPE OF COMPLETION: NEW WELL ☒ 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

9a. API WELL NO.
30-025-31765

14. PERMIT NO.

DATE ISSUED
10-22-92

12. COUNTY OR
PARISH
LEA

13. STATE
NM

15. DATE SPUDDED
11-16-92

16. DATE T.D. REACHED
11-21-92

17. DATE COMPL. (Ready to prod.)
12-04-92

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*
GR-2974', KB-2984'

19. ELEV. CASINGHEAD
2974'

20. TOTAL DEPTH, MD & TVD
3400'

21. PLUG BACK T.D., MD & TVD
3337'

22. IF MULTIPLE COMPL.
HOW MANY*

23. INTERVALS
DRILLED BY

ROTARY TOOLS
0-3400'

CABLE TOOLS

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

30. TUBING RECORD

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
12-06-92

PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)
PUMPING - 2.5 x 1.75 x 24

WELL STATUS (Producing or shut-in)
PRODUCING

DATE OF TEST
12-12-92

HOURS TESTED
24

CHOKE SIZE

PROD'N FOR
TEST PERIOD

OIL - BBL.
141

GAS - MCF.
9

WATER - BBL.
331

GAS - OIL RATIO
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.R. Basham/cwa

TITLE DRILLING OPERATIONS MANAGER

DATE 12-15-92

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

PRODUCING WELL DATA SHEET

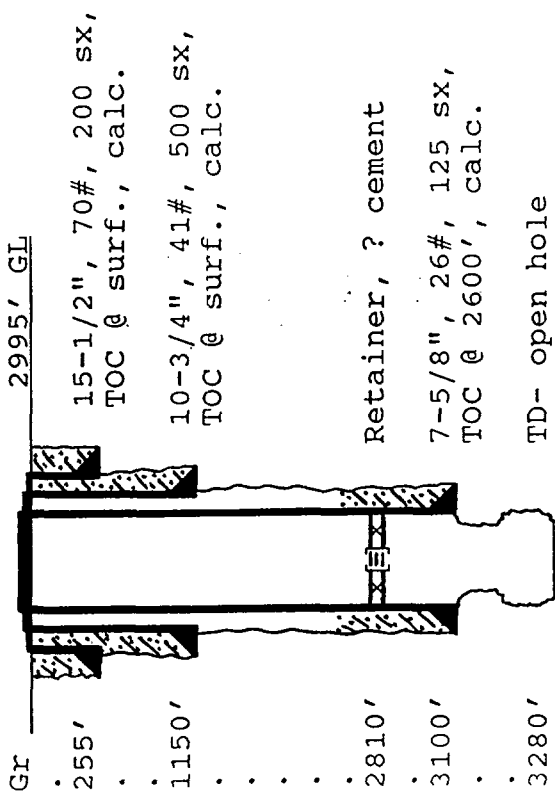
OPERATOR: Meridian Oil Inc. Lease: Rhodes A #2

FOOTAGE LOCATION: 1650 FGL X 1650 FEL sec./Twn/Rng: Unit J, Sec 22, T-26-S, R-37-E

Former El Paso Natural Gas Co. Rhodes A #2 Lea County, New Mexico

SCHEMATIC

*



TABULAR DATA

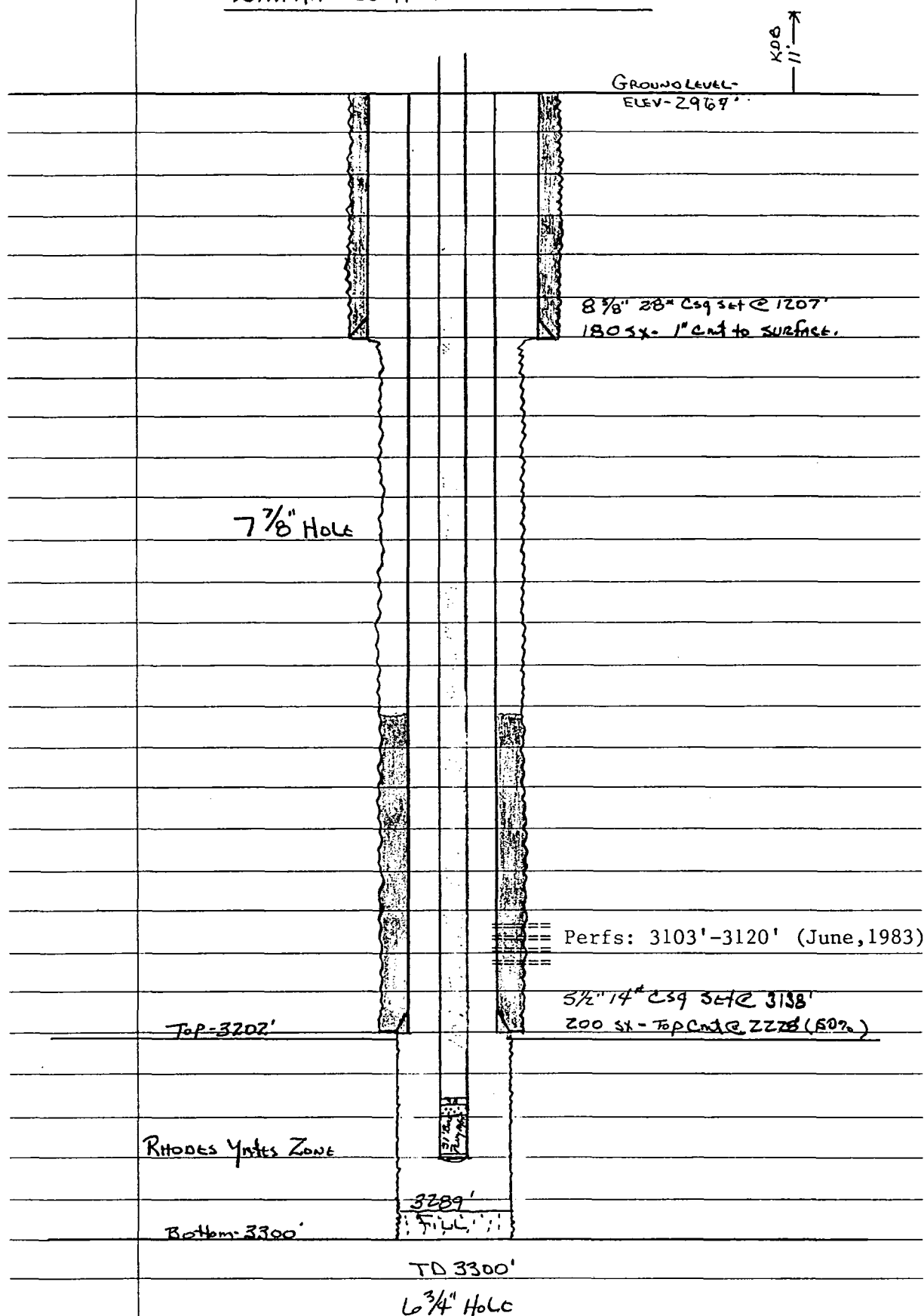
Surface Casing: Set at 237'
 Size 15-1/2", 70# Cemented with 200 sx.
 TOC surface ' determined by calculation
 Hole Size ?? Comp. Date 6-01-37
Intermediate casing: Set at
 Size 10-3/4", 41# Cemented with 500 sx.
 TOC surface ' determined by calculation
 Hole Size ??
Production Casing: Set at 3100'
 Size 7-5/8", 26# Cemented with 125 sx.
 TOC 2600' ' determined by calculation
 Hole Size ??

Tops:

Producing Interval: open hole
3100' to 3280' Size 6-3/4"?, nitro shot
TA status: casing tested OK on 2-18-92

Salt 1196'-2710'
 Yates 2840'
 Seven Rivers na
 Queen na

W.H. RHODES "A" FEDERAL #3



THIS WELL WAS SHOT WITH

170 Qts. Nitro 2-19-1944.

F.M.R.

1-25-77

CHO/1-10-81

W. H. Rhodes A Federal "H"

ADD
11"

Elev. 2991' D.F.

11" Hole

8# 28" csg Set @ 1196'
300 SX. CMT. To SURFACE

7 3/8" Hole

3000' Plastic Lined 2-3/8" Tubg.

5 1/2" 14" csg. Set @ 3080'

2 3/8 X 5 1/2 Griberson Uni Packer
Set @ 3000'

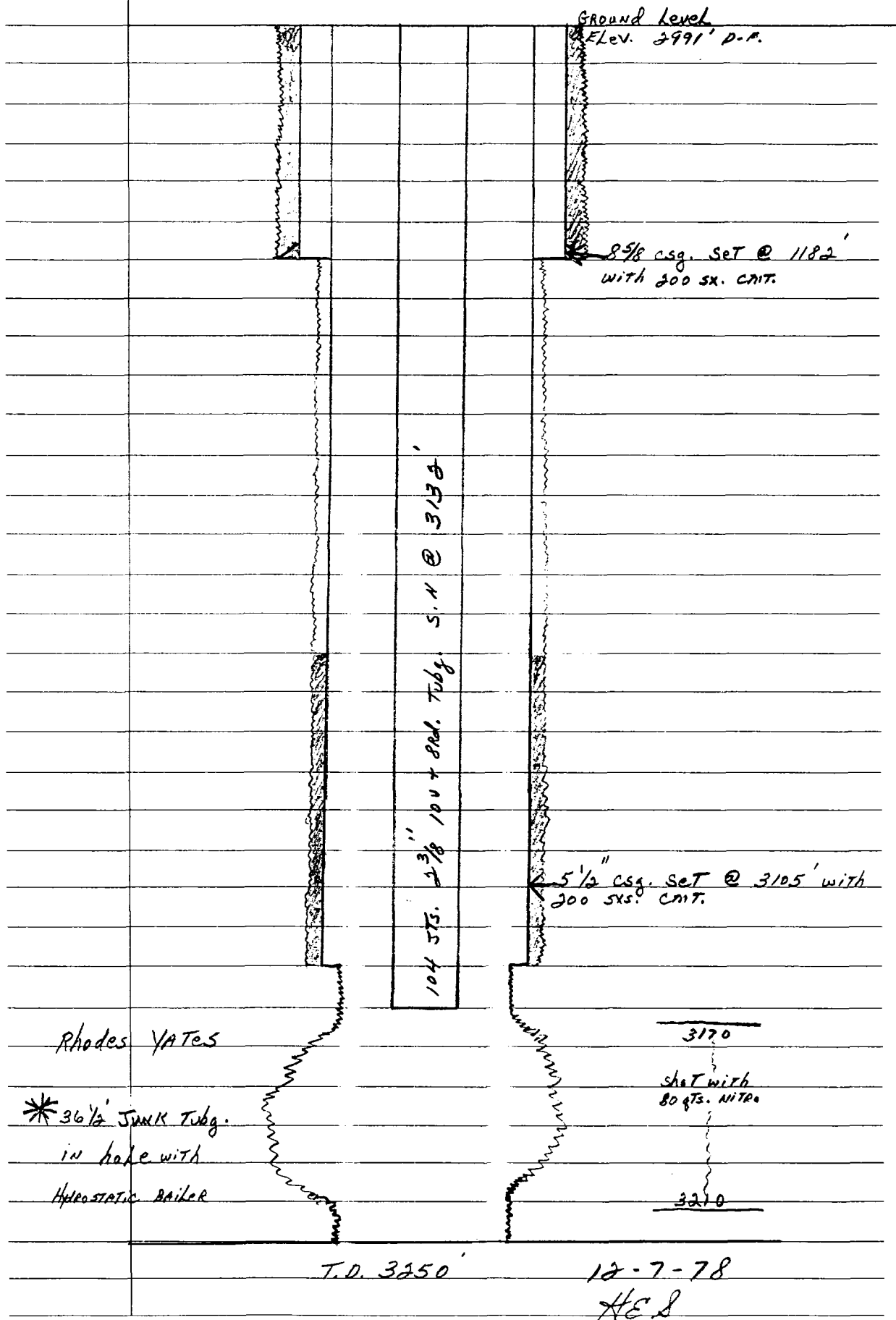
XXXXXX 300 SX. - Top of CMT. @ 3300'

4 3/4" open Hole From 3080 - 3250

T.D. 3250'

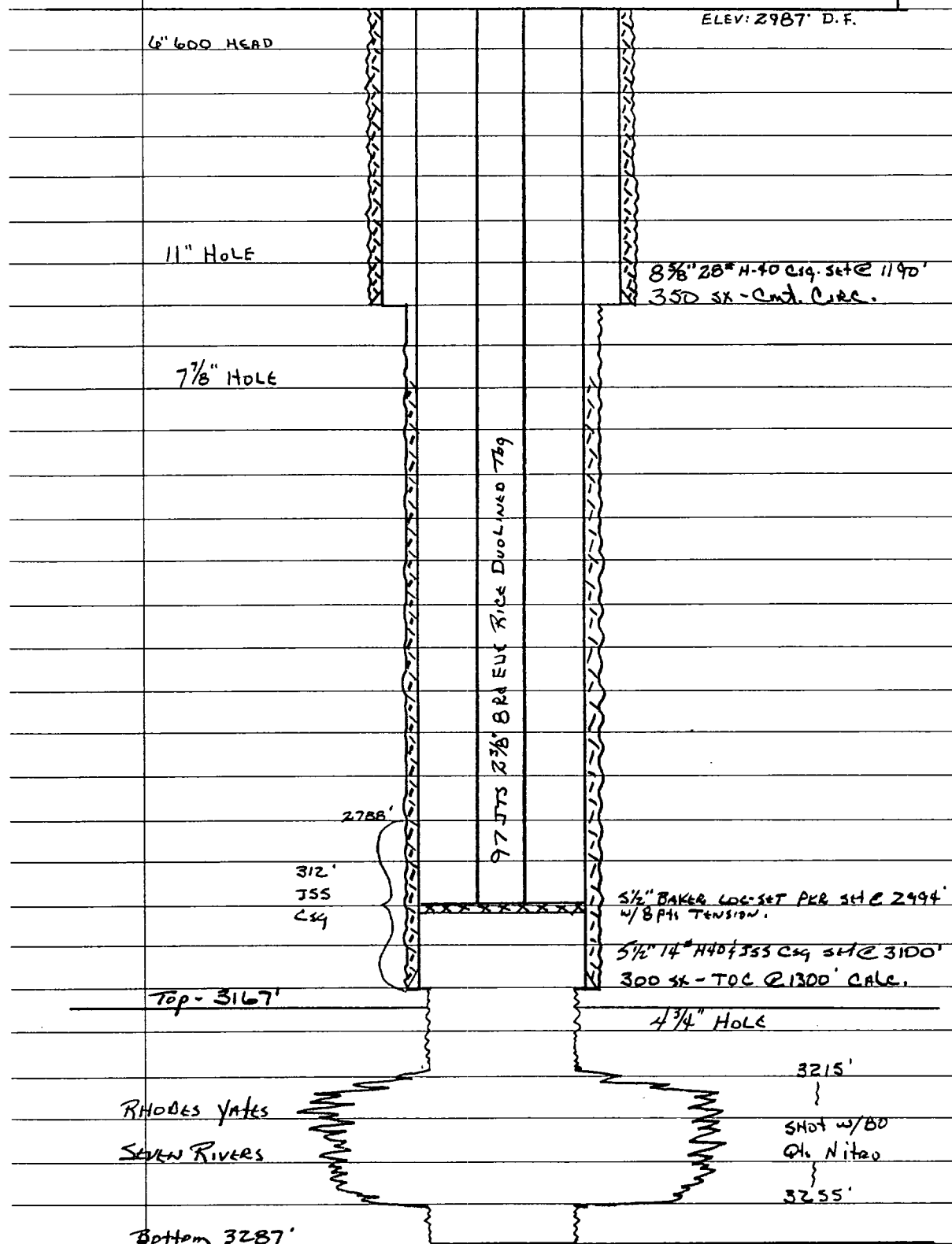
10/23/78

W.H. Rhodes "A" FEDERAL #5



W.H. RHODES "A" #6 WI

KDB
11"



F.M.R.

10-24-78

W.H. RHODES "B" (NCT-1) # 4 INJ.

Top
108

ELEV-2994' DF

11" HOLE

8 3/8" 28# F32# H-40 Csg Set @ 1179'
200 SX - Cmt. CIRC.

7 7/8" HOLE

93 JTS 7 3/8" BRD LUG RICE DUG LINED T69

5 1/2" BAKR Loc-set PKR Set @ 2813'
Set w/12RPS TENSION.

Top-3116'

5 1/2" 14# F155# H-40 F33 Csg. Set @ 3116'
200 SX - TDC 2300' Calc 120?

RHODES YATES

SHOT w/160 qts
3180' to 3260'

Bottom-3270'

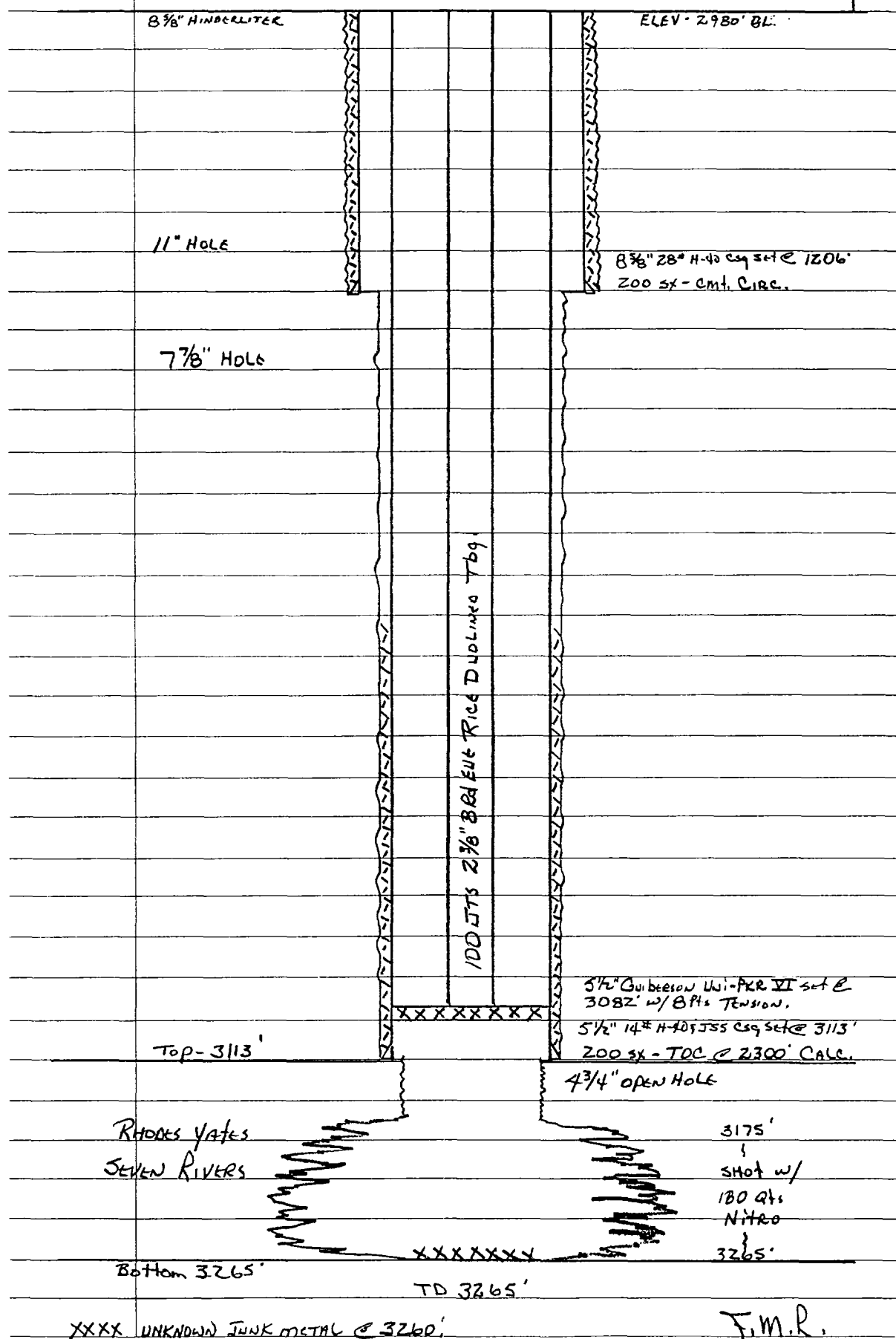
TD-3270'
4 3/4" Hole

F.M.R.

1-26-79

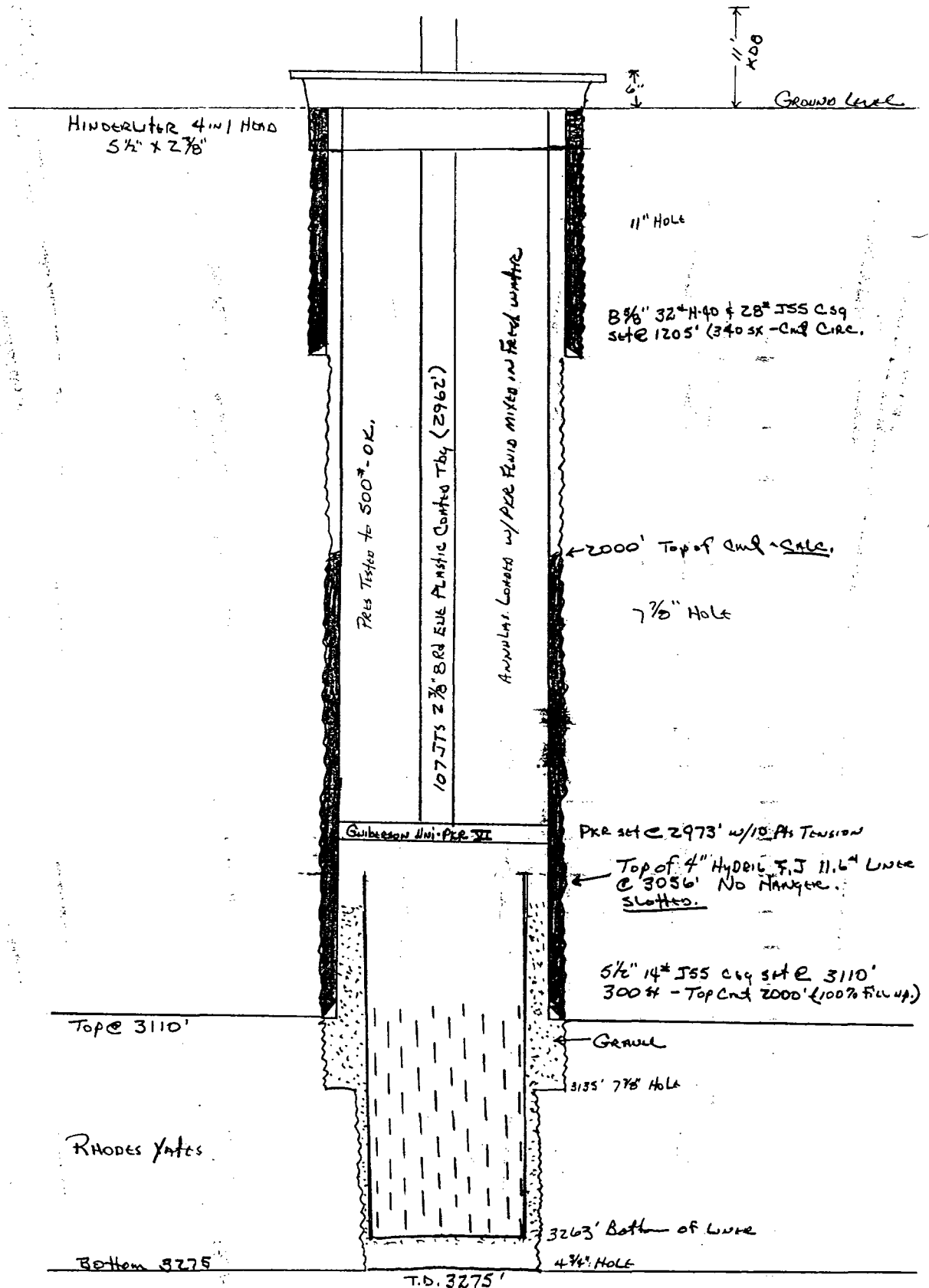
W. H. RHODES "B" (NCT-1) # 5 W1

KDB
12.1



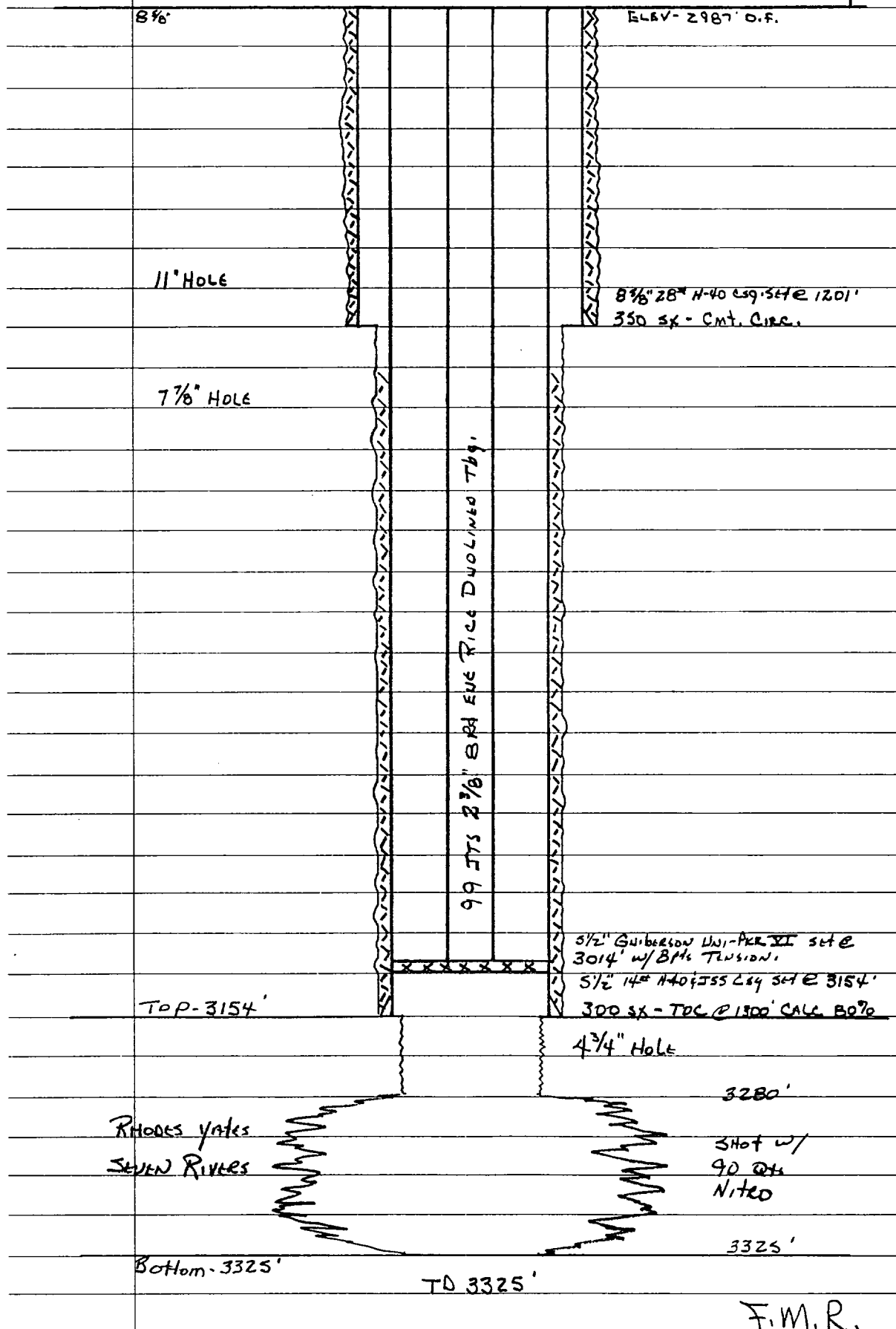
F.M.R.
11-2-78

W.H. RHODES "B" (NCT-1) # 7 W1



W.H. RHODES "B" (NCT-1) # 9 W1

11'



F.M.R.
10-18-78

W.H. RHODES "B" (NCT-1) # 10 W1

KOB
11'

ELEV-3001' D.F.

11" HOLE

8 7/8" 28# H-40 CS9 SET @ 1193'
300 SX - CMT. CIRC.

7 7/8" HOLE

98 JTS 2 7/8" BUTRESS PLASTIC CONCRETE T69.

5 1/2" GULBERSON UNI-PKR II @ 3070'
w/8pts Tension.

Top-3118'

5 1/2" 14# H40 JTS CS9 SET @ 3118'
300 SX - TDC 1500' CALL 80%.

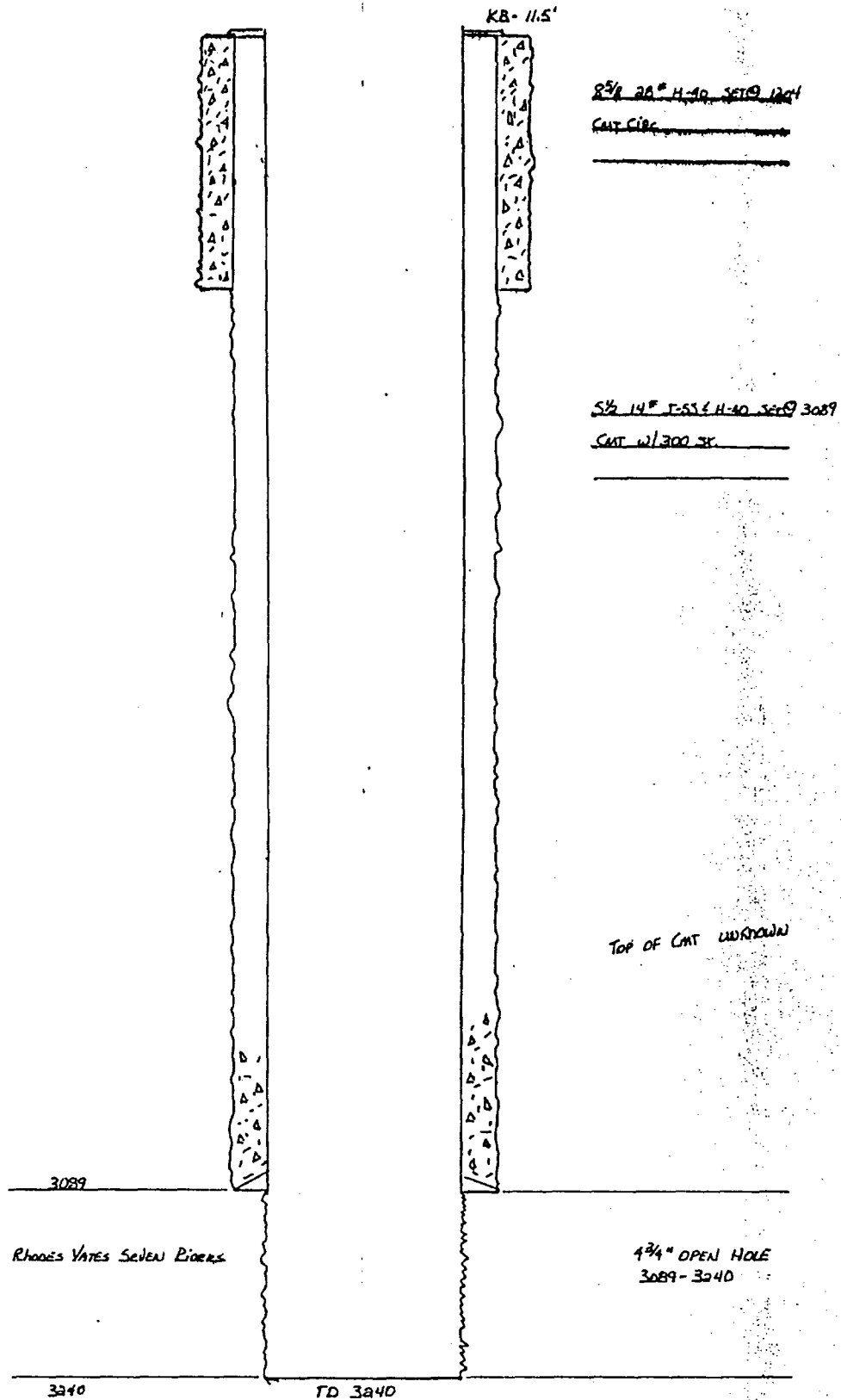
RHODES YATES
SEVEN RIVERS

4" SLOTTED FJ HYDROL LINT @ 3118' to
3324'. GRAVEL PACKED.

Bottom-3324'

TD 3324'

F.M.R.
11-7-78



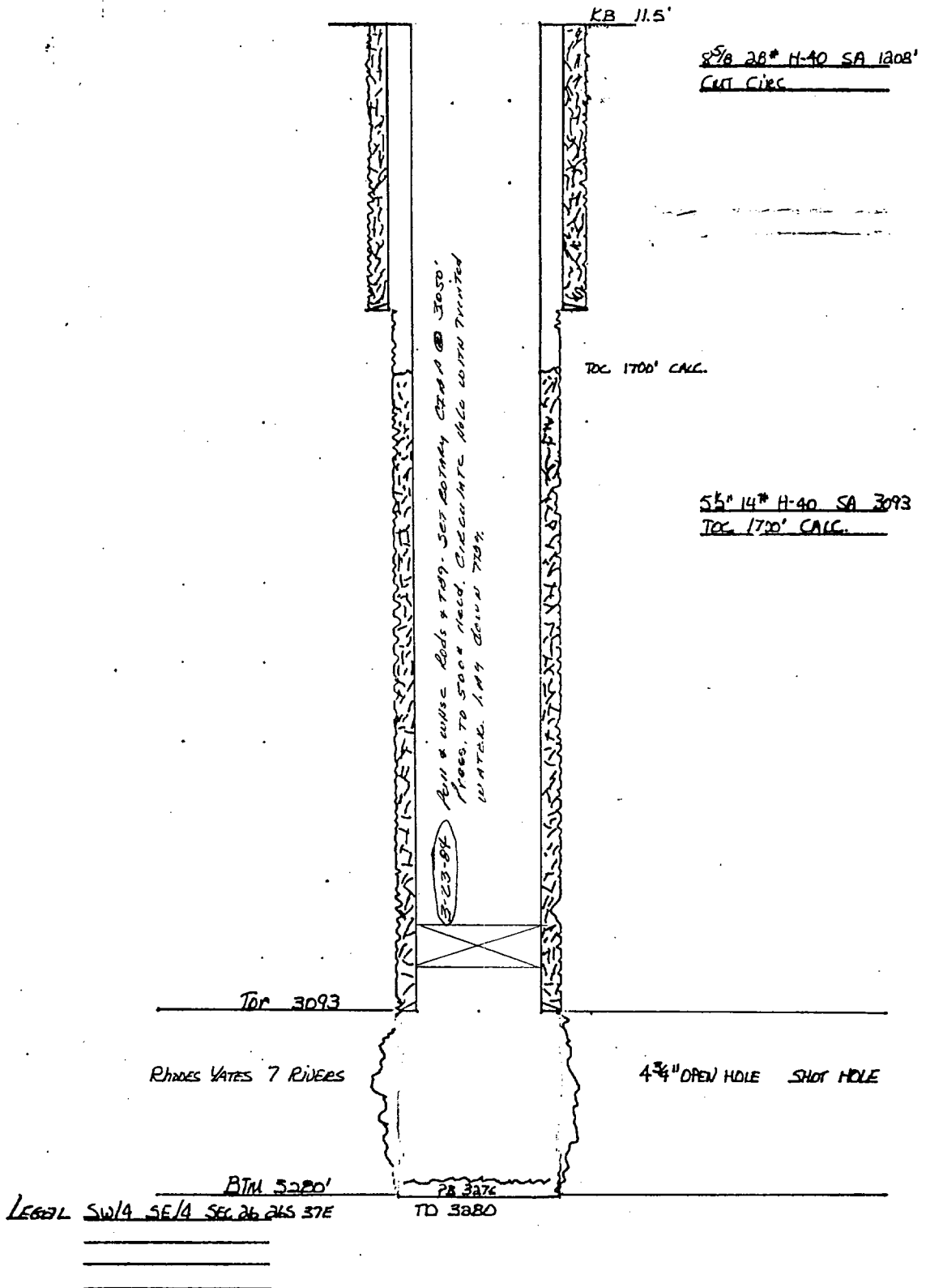
NE 1/4 SW 1/4 SECT 26 T 26S R 37E

L.M. LEWMAN 7-15-84

LEASE: W.H. PHOES 'B' AC

WELL No. 12

COMP DATE 4-15-45

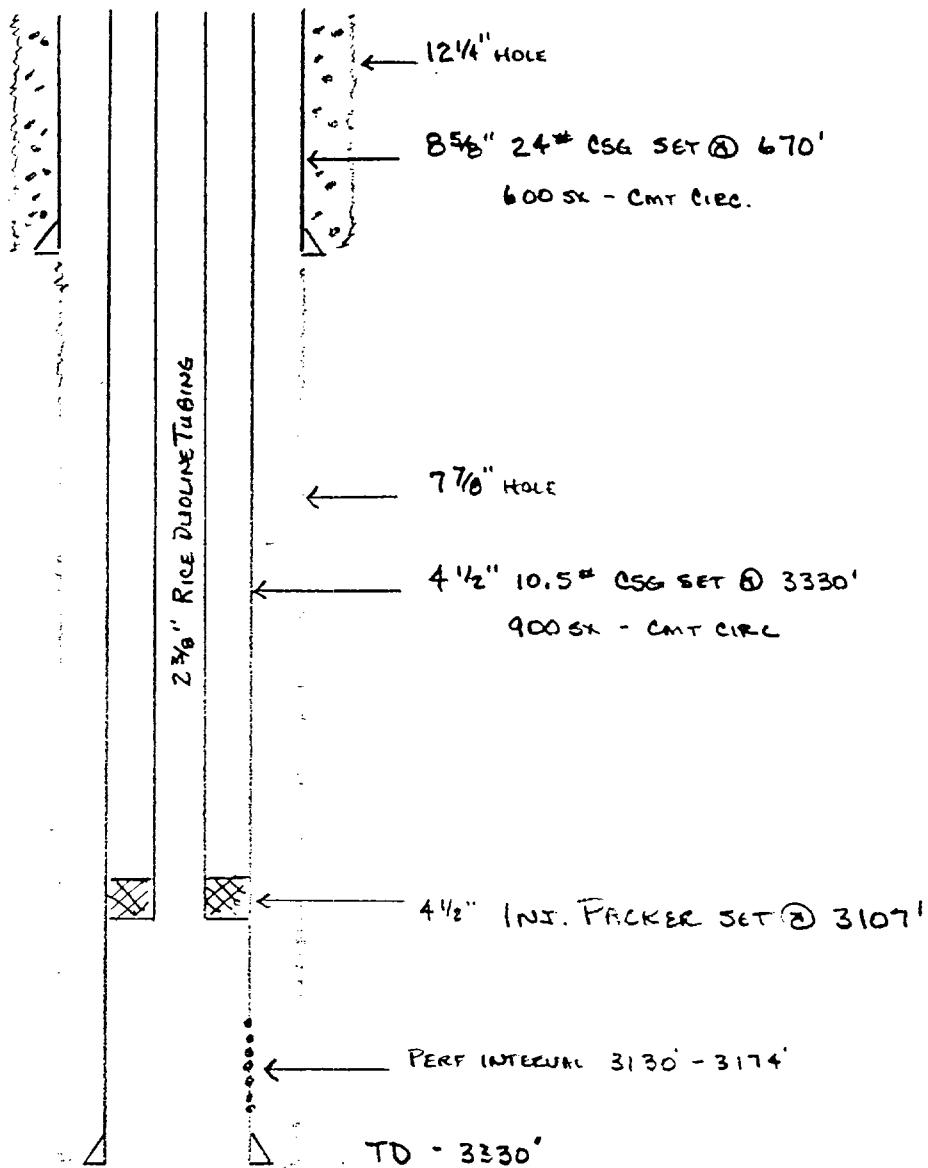


L.M. LEHMAN 3-18-84

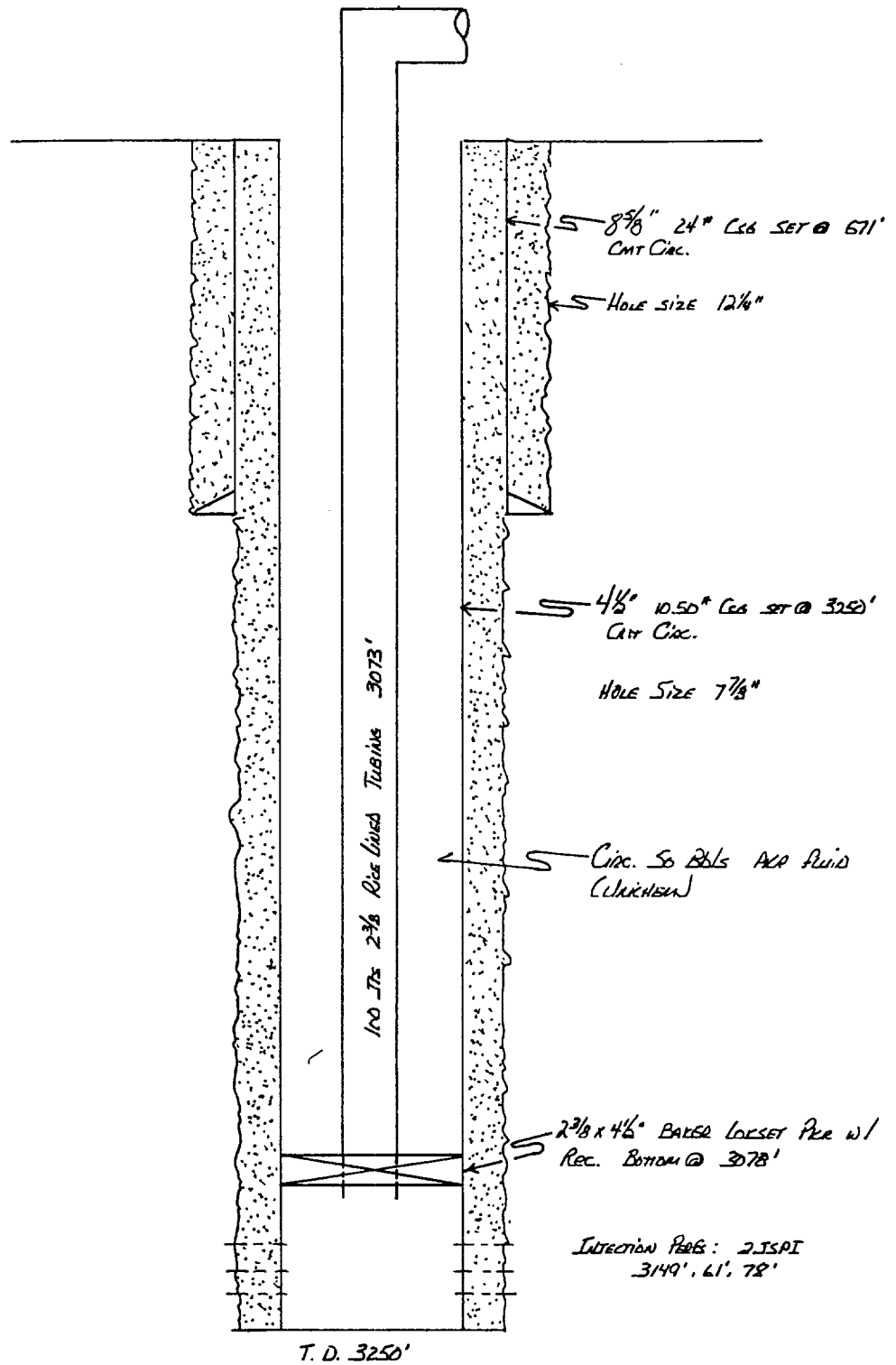
LOCATION W.H. RHODES 'B' NCT-1 #16 EST. NO. _____ BY LWJ

SUBJECT _____ C.K'D _____

APP'D _____



COMPLETED AS INJECTION WELL 6-28-77



W.H. PHOENIX 'B' NOT 1
 WELL NO. 17 DI

PO-108
(5/91)

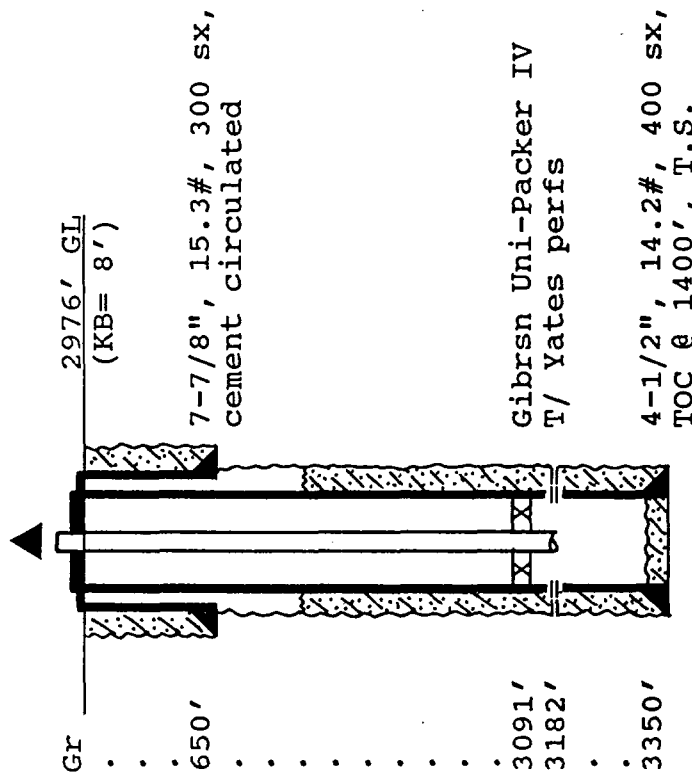
Injection Well Data Sheet

OPERATOR: Texaco Exploration & Production Inc. Lease: W.H. Rhodes B Fed NCT-1 #18

FOOTAGE LOCATION: 2180 FSL X 1820 FEL Sec./Twn/Rng: Unit J, Sec 27, T-26-S, R-37-E

Lea County, New Mexico

SCHEMATIC



Tops:
Salt 1225'-2805'
Yates 2912'
Seven Rivers 3154'

** Perfs to be added: 3020'-3170'

TABULAR DATA

Surface Casing: Set at 650'

Size 7-7/8", 15.3# Cemented with 300 sx.

TOC surface ' determined by circulated

Hole Size 9-5/8" Comp. Date 2-10-74

Intermediate casing: Set at

Size NONE Cemented with sx.

TOC ' determined by

Hole Size

Production Casing: Set at 3350'

Size 4-1/2", 10.2# Cemented with 400 sx.

TOC 1400' ' determined by temp. srvy

Hole Size 6-3/4"

Injection Interval:

3020' to 3295' through: Perforations

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

W.H. RHODES "B" FED. (NCT-1) #19 INT

KOB
12'

8 3/8" HEAD

ELEV-2995 GL

12 1/4" HOLE

8 3/8" 24" CSQ SET @ 669'
600 SX - CMT. CIRC.

7 7/8" HOLE

(101 JTS 2 3/8" RICE DNO LINED TBG.)

X X X X X

4 1/2" BAKER LOC-SET PER @ 3109'
w/12 Pts Tension.

TOP-3155'

RHODES YATES

PERF 2 JTSPI @ 3155', 3167' & 3182'
(6 HOLES)

BOTTOM-3182'

PBTD-3190'

4 1/2" 10.5" K-55 CSQ SH @ 3275'
900 SX - CMT. CIRC.

T.D. 3275'

F.M.R.

12-14-78

— 476 —

2-20-78

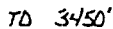


Chart Info: Lufkin 320-D Rose Br Chart Design

*C-320 A-254-DO GERP RTR 30.12.51

D63288A1-403812 Unit 6 GROSS COST

WAST. 40 H.P. 1110 RPM R 365T 6-C225 Bars

NOTE SU 7209

L.A. Lerman 3/25/82

EUNICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. LC-030174 (b)	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. CESVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR TEXACO INC.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 728, Hobbs, New Mexico 88240		8. FARM OR LEASE NAME W. H. Rhodes B Fed. NCT-2	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660' FSL & 1880' FEL (Unit Letter 'O') At top prod. interval reported below At total depth		9. WELL NO. 6	
14. PERMIT NO. Regular		DATE ISSUED 9-11-84	
15. DATE SPUDDED 9-17-84		16. DATE T.D. REACHED 9-25-84	
17. DATE COMPL. (Ready to prod.) 11-4-84		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 2966' (GR)	
19. ELEV. CASINGHEAD 2966'		20. TOTAL DEPTH, MD & TVD 3450'	
21. PLUG, BACK T.D., MD & TVD 3240'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY 0-3450'		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3127'-3224' Yates	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN GR-CNL-LDT, DLL-MSFL	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
35. LIST OF ATTACHMENTS		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	

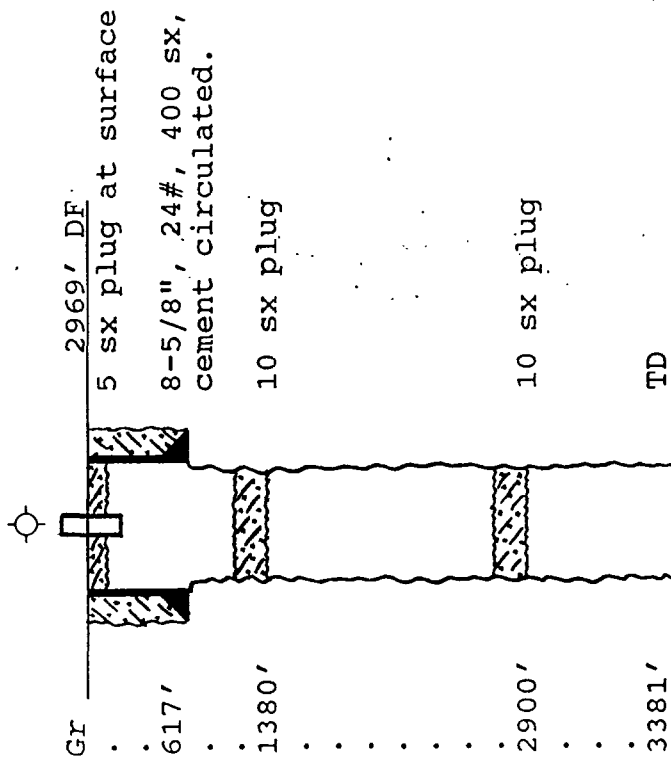
SIGNED W. B. L. TITLE District Operations Manager DATE 11-21-84

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

WELL DATA SHEET

OPERATOR: Sea Sand Oil Co. Lease: Mary E Wills Fed #5
 FOOTAGE LOCATION: 660 FSL X 660 FEL Sec./Twn/Rng: Unit H, Sec 33, T-26-S, R-37-E
 former operators: T.F. Hodge et al., Shell Oil Co. Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at 617'
 Size 8-5/8", 24# Cemented with 400 sx.
 TOC surface ' determined by circulation
 Hole Size 11" ? P&A Date 4-14-59
Intermediate casing: Set at _____
 Size NONE Cemented with _____ sx.
 TOC _____ ' determined by _____
 Hole Size _____
Production Casing: Set at _____
 Size NONE Cemented with _____ sx.
 TOC _____ ' determined by _____
 Hole Size ??

Completion Interval:

____ ' to ____ ' : ____
drilled and abandoned April 14, 1959

Tops:

Salt 1193'-2919'
 Yates 3076'
 Seven Rivers na

INJECTION WELL DATA SHEET

OPERATOR: Sea Sand Oil Co. Lease: Mary E Wills Fed #6

FOOTAGE LOCATION: 990 FNL X 2310 FEL Sec./Twn/Rng: Unit B, Sec 33, T-26-S, R-37-E

Former operators: T.F. Hodge et al, Shell Oil Co. Lea County, New Mexico

SCHEMATIC

Surface Casing: Set at 613'

Size 8-5/8", 24# Cemented with 400 sx.

TOC surface ' determined by calculation

Hole Size 11" ? Comp. Date 6-15-59

Intermediate casing: Set at

Size NONE Cemented with sx.

TOC ' determined by

Hole Size

Production Casing: Set at 3299'

Size 4-1/2", 9.5# Cemented with 200 sx.

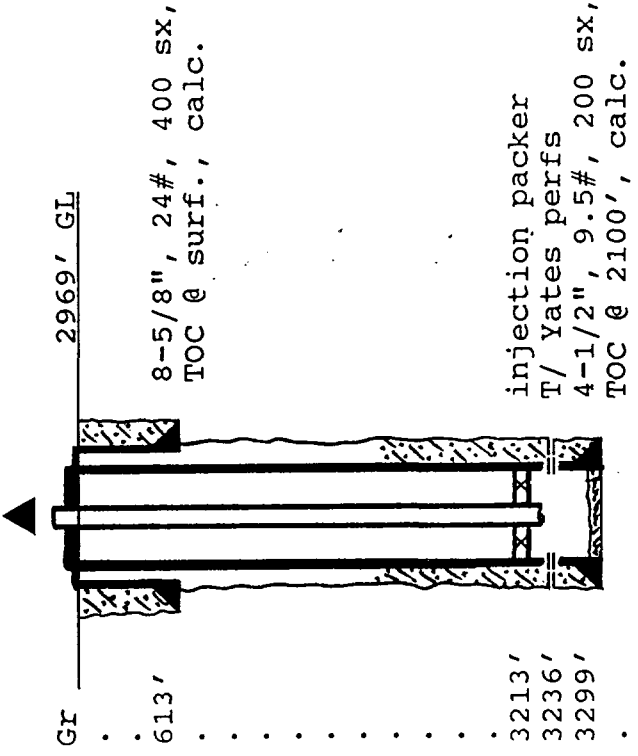
TOC 2100 ' determined by calculation

Hole Size 6-3/4" ?

Completion Interval:

3236 ' to 3256 ' : perforations

converted to injection on 5-29-64



Tops:

Salt 1218'-2914'

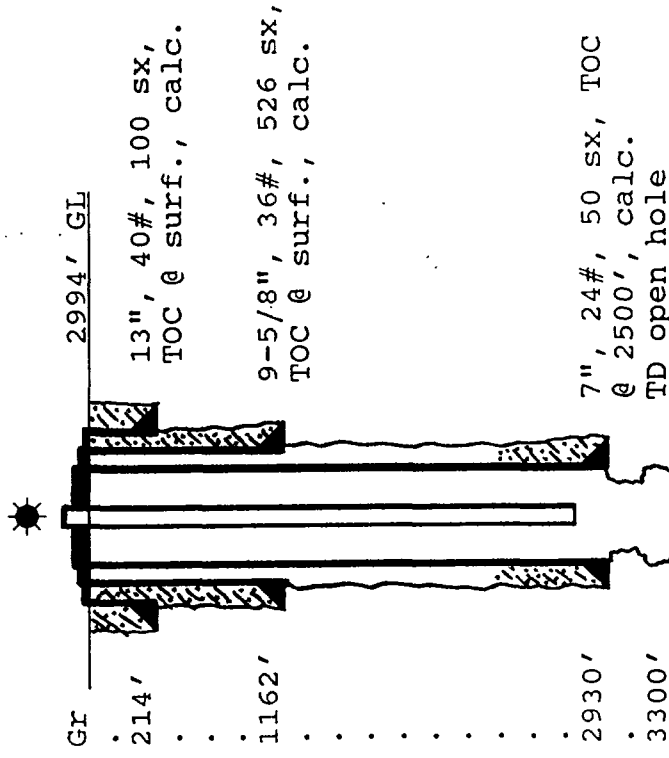
Yates 3057'

Seven Rivers na

WELL DATA SHEET

OPERATOR: Koch Exploration Co. Lease: Mary E Wills Fed A #1
 FOOTAGE LOCATION: 660 FNL X 1980 FEL Sec./Twn/Rng: Unit C, Sec 35, T-26-S, R-37-E
Former Ohio Oil Co., Wood River Oil & Refining Co. Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at 214'
 Size 13", 40# Cemented with 100 sx.
 TOC surface , determined by calculation
 Hole Size 15-1/2" Comp. Date 11-01-38
Intermediate casing: Set at 1162'
 Size 9-5/8", 36# Cemented with 526 sx.
 TOC surface , determined by calculation
 Hole Size 11"
Production Casing: Set at 2930'
 Size 7", 24# Cemented with 50 sx.
 TOC 2500 , determined by calculation
 Hole Size 8-3/4"

Completion Interval:

2930' to 3300' : open hole- nitro shot

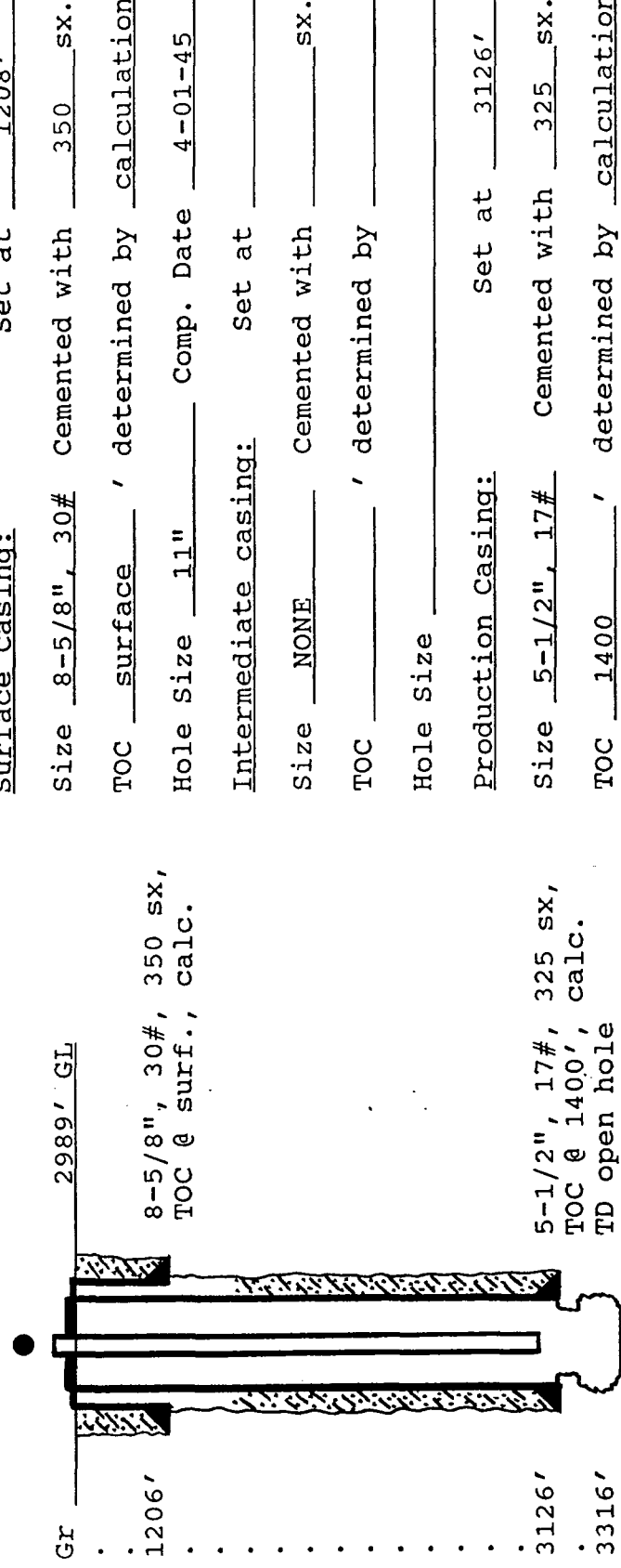
Tops:

Salt 1210'-2740'
 Yates 2930'
 Seven Rivers na

WELL DATA SHEET

OPERATOR: Koch Exploration Co. Lease: Mary E Wills Fed A #2
 FOOTAGE LOCATION: 1135 FSL X 1135 FWL Sec./Twn/Rng: Unit C, Sec 35, T-26-S, R-37-E
Former Wood River Oil & Refining Co, Inc. Lea County, New Mexico

SCHEMATIC



Tops:

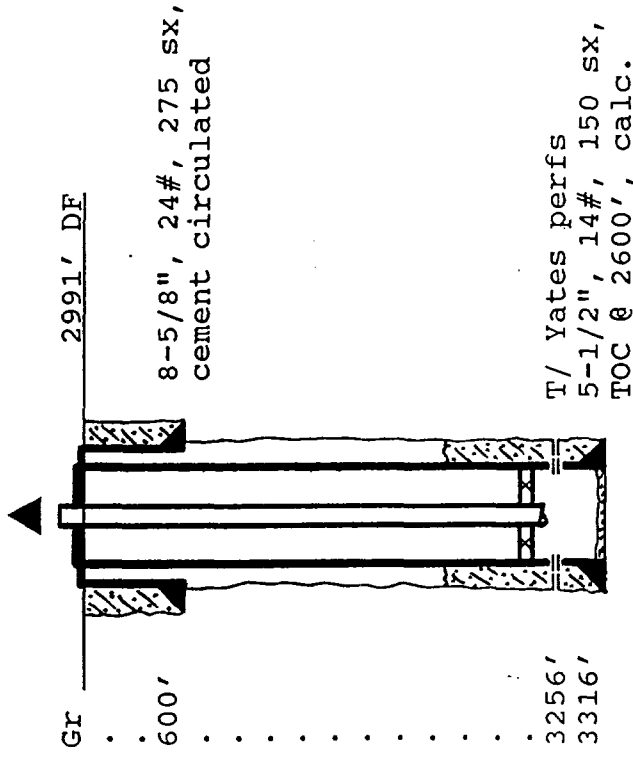
Salt 1270'-2822'
 Yates 2995'
 Seven Rivers na

Completion Interval:
 3126' to 3316' : open hole- nitro shot

INJECTION WELL DATA SHEET

OPERATOR: Koch Exploration Co. Lease: Mary E Wills Fed A #8
 FOOTAGE LOCATION: 20 FNL X 1315 FWL Sec./Twn/Rng: Unit F, Sec 35, T-26-S, R-37-E
Former Wood River Oil & Refining Co., Inc. Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at 600'
 Size 8-5/8", 24# Cemented with 275 sx.
 TOC surface ' determined by circulation
 Hole Size 9-5/8"? Comp. Date 4-09-60
Intermediate casing: Set at _____
 Size NONE Cemented with _____ sx.
 TOC _____ ' determined by _____
 Hole Size _____
Production Casing: Set at 3316'
 Size 5-1/2", 14# Cemented with 150 sx.
 TOC 2600 ' determined by calculation
 Hole Size 7-7/8" ?

Tops:

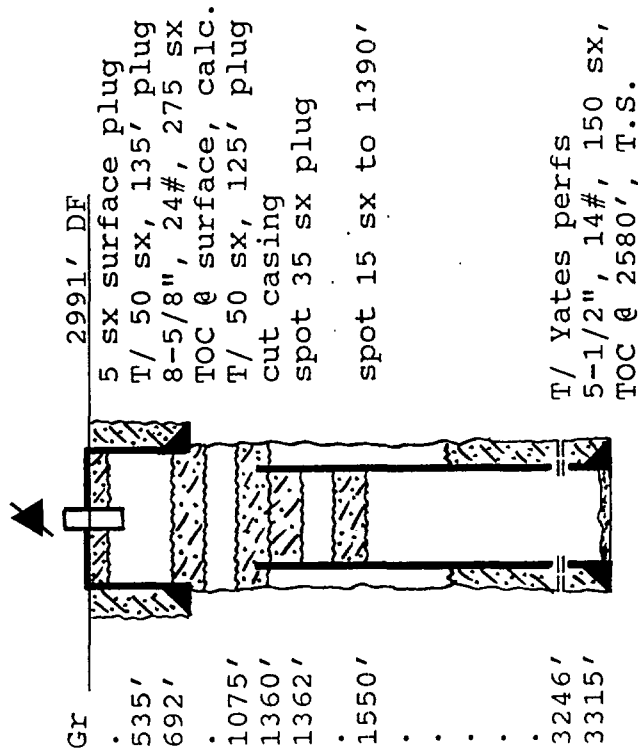
Salt 1200'-2707'
 Yates 2956'
 Seven Rivers 3247'

Completion Interval:
3256' to 3297' : _____ perforations
Drilled as water injection well; R-1352

P&A WELL DATA SHEET

OPERATOR: Koch Exploration Co. Lease: Mary E Wills Fed A #11
 FOOTAGE LOCATION: 20 FNL X 1315 FWL Sec./Twn/Rng: Unit C, Sec 35, T-26-S, R-37-E
Former Rock Island Oil & Refining; P&A 8-29-81. Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at 692'
 Size 8-5/8", 24# Cemented with 275 sx.
 TOC surface ' determined by calculation
 Hole Size 9-5/8"? Comp. Date 4-09-60
Intermediate casing: Set at _____
 Size NONE Cemented with _____ sx.
 TOC _____ ' determined by _____
 Hole Size _____
Production Casing: Set at 3300'
 Size 5-1/2", 14# Cemented with 150 sx.
 TOC 2580' ' determined by T. S.
 Hole Size 7-7/8" ?

Completion Interval:

3246' to 3300' : 76 perforations
Drilled as water injection well; R-1352

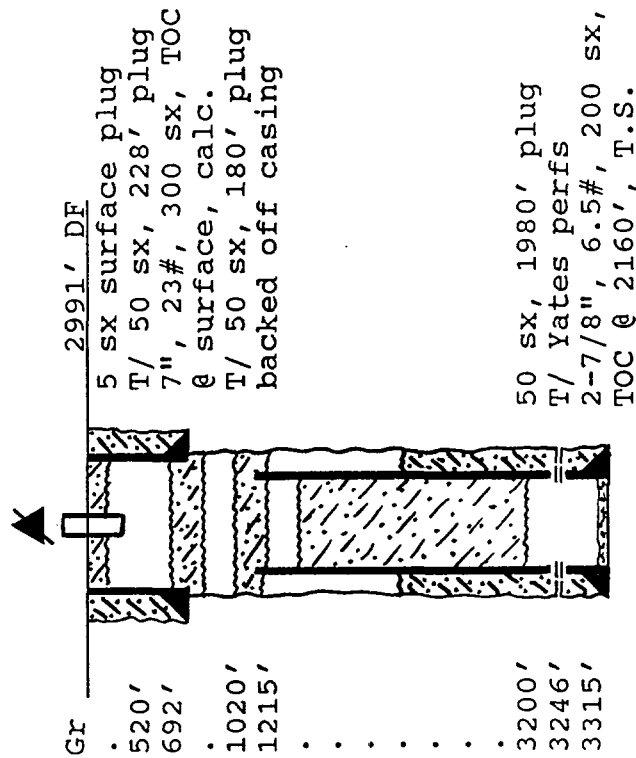
Tops:

Salt 1219'-2595'
 Yates 2932'
 Seven Rivers 3238'

P&A WELL DATA SHEET

OPERATOR: Koch Exploration Co. Lease: Mary E Wills Fed A #13
 FOOTAGE LOCATION: 1259 FNL X 2183 FEL Sec./Twn/Rng: Unit G, Sec 35, T-26-S, R-37-E
Former Rock Island Oil & Refining; P&A 8-15-81. Lea County, New Mexico

SCHEMATIC



TABULAR DATA

Surface Casing: Set at 692'
 Size 7", 23# Cemented with 300 sx.
 TOC surface , determined by calculation
 Hole Size 8-3/4"? Comp. Date 11-09-62
Intermediate casing: Set at _____
 Size NONE Cemented with _____sx.
 TOC _____ , determined by _____
 Hole Size _____
Production Casing: Set at 3315'
 Size 2-7/8", 6.5# Cemented with 200 sx.
 TOC 2160' , determined by T. S.
 Hole Size 4-3/4" ?

Tops:

Salt 1200'-2777'
 Yates 2986'
 Seven Rivers na
3246' to 3286' : _____ perforations
Drilled as water injection well; R-1352

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

4/19/93

5. Signature (Addressee)

Carol Hines

6. Signature (Agent)

B.H.

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

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

15
1993

5. Signature (Addressee)

Ben Stone

6. Signature (Agent)

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.
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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)

Bobbie Jackson

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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- 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.

3. Article Addressed to:

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

5. Signature (Addressee)

6. Signature (Agent)

M. Salgado

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

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

Consult postmaster for fee.

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

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

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 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: 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	
5. Signature (Addressee) <i>Kay Sanford</i> 6. Signature (Agent)		7. Date of Delivery 4-12-93 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**

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: 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	
5. Signature (Addressee) 6. Signature (Agent) <i>W. Wells</i>		7. Date of Delivery APR 12 1993 4-12-93 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**

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: 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	
5. Signature (Addressee) 6. Signature (Agent) <i>Robert Gonzales</i>		7. Date of Delivery APR 12 1993 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**

Is your RETURN ADDRESS completed on the reverse side?

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

- ☐ Addressee's Address
- ☐ 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. Neal

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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- 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):

- ☐ Addressee's Address
- ☐ 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. Mattingly

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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- Complete items 3, and 4a & b.
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- 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):

- ☐ Addressee's Address
- ☒ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

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)

W. Clapp

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

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, 1993

and ending with the issue dated

April 8, 1993

Kathi Bearden
General Manager

Sworn and subscribed to before

me this 9 day of

April, 1993

Charlene Perrin

Notary Public.

My Commission expires
March 15, 1997

(Seal)

This newspaper is duly qualified
to publish legal notices or adver-
tisements 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. Fraz-
zier, Area Manager, P.O. Box
730, Hobbs, New Mexico,
88240, Telephone (505) 393-
7191, to the New Mexico Oil
Conservation Commission,
Energy and Minerals De-
partment, for approval of the
following wells to be con-
verted to water injection for
the purpose of secondary oil
recovery.

Lease/Unit Name:

Rhodes Yates Unit

Well Number(s) and Loca-
tion(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 Loca-
tion(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 Loca-
tion(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 max-
imum injection pressure is
1800 pounds per square
inch. Interested parties must
file objections or requests
for hearing with the Oil Con-
servation Division, P.O. Box
2088, Santa Fe, New Mexi-
co, 87501, within fifteen (15)
days of this publication.