

3000 8/15/70
639

devon

ENERGY CORPORATION

20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611
FAX 405/552-4550

July 25, 1996

Certified Mail No. Z 737 086 299

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 88505

RE: Proposed Denton SWD #4
Section 12-T15S-R37E
Lea County, New Mexico

Gentlemen:

Concerning the referenced, enclosed please find our Application for Authorization to Inject and one copy of same. A copy of this submittal is being sent to the OCD office in Hobbs.

Also enclosed is a copy of each letter of notification, sent by certified mail, to the offset operators and the surface owner.

Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 235-3611, X4509.

Yours truly,

DEVON ENERGY CORPORATION (NEVADA)

Candace R. Graham

Ms. Candace R. Graham
Engineering Tech

/cg

Enclosures

copy: NMOCD, Hobbs
EB, File

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Devon Energy Corporation (Nevada)
Address: 20 North Broadway, Suite 1500, Oklahoma City, Oklahoma 73102-8260
Contact party: Mr. Ernie Buttross Phone: 405-235-3611
- 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 Denton SWD #1 SWD-5
If yes, give the Division order number authorizing the project Denton SWD #3 SWD-331
- 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: E.L. Buttross, Jr. Title: District Engineer
Signature: E.L. Buttross Jr. Date: July 25, 1996
- * 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.

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.

DEVON ENERGY CORPORATION

DENTON SWD #4 (B.C. DICKINSON "B" #4)
330' FWL & 2310' FNL
SECTION 12-T15S-R37E
LEA COUNTY, NEW MEXICO

III. PROPOSED SALTWATER DISPOSAL WELL DATA:A.

SURFACE CASING: 13 3/8"-48 #/FT SET @ 369', CEMENT TO SURFACE W/ 400 SX.

INTERMEDIATE CASING: 9 5/8"-36 & 40 #/FT. SET @ 4750', CEMENTED TO +/- 620' W/ 3000 SX
CASING PATCH @ 620', TESTED @ 500 PSI.

PRODUCTION CASING: 7"-23, 26 & 29 #/FT. LINER - TOP @ 4609', SET @ 9525', CEMENTED W/ 225 SX.
T.O.C. @ 8200'

TOTAL DEPTH: 11,375' (PLUGBACK DEPTH 10,500')

TUBING: 4 1/2"-11.6 #/FT., J-55, W/ TUBOSCOPE TK-70 PLASTIC COATING

PACKER: NICKLE PLATED BAKER LOCKSET PACKER W/ ON-OFF TOOL AND PROFILE
NIPPLE, SET @ +/- 9450'

B.

INJECTION FORMATION: PENNSYLVANIAN

FIELD: DENTON

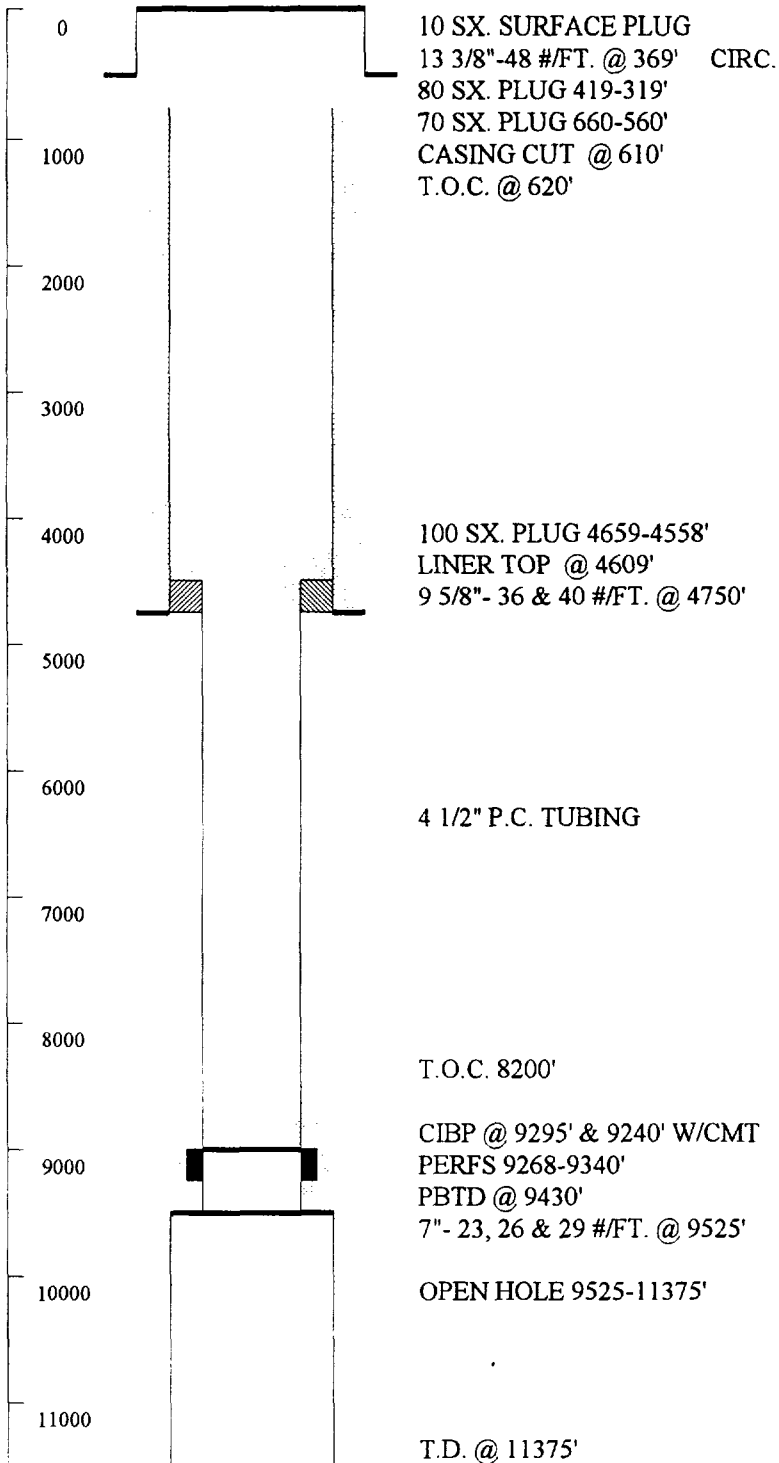
INJECTION INTERVAL: PENNSYLVANIAN 9525-10500'

ORIGINAL WELL PURPOSE: WOLFCAMP OIL WELL

OTHER PERFORATED INTERVALS: WOLFCAMP 9268-9288' & 9300-9340' (WILL BE SQUEEZED OFF)

DEPTHS AND NAMES OF
OTHER OIL & GAS ZONES
IN THE AREA: WOLFCAMP - +/-9100'
DEVONIAN - +/-12200'

PRESENT WELL CONFIGURATION



WELL NAME: DENTON SWD #4 (DICKINSON "B" #4)
OPERATOR: DEVON ENERGY CORPORATION
LOCATION: SW/NW, 330' FWL & 2310' FNL
SECTION 12, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 9-27-52

WELL TYPE: SWD

SURFACE CASING

CASING: 13 3/8"-48 #/FT. @ 369'
HOLE SIZE: 17 1/2"
CEMENT: 400 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

CASING: 9 5/8"- 36 & 40 #/FT. @ 4750'
HOLE SIZE: 12 1/4"
CEMENT: 3000 SX.
T.O.C.: 620'

PRODUCTION CASING:

CASING: 7"- 23, 26 & 29 #/FT. @ 4609-9525'
HOLE SIZE: 8 5/8"
CEMENT: 225 SX.
T.O.C.: 8200'

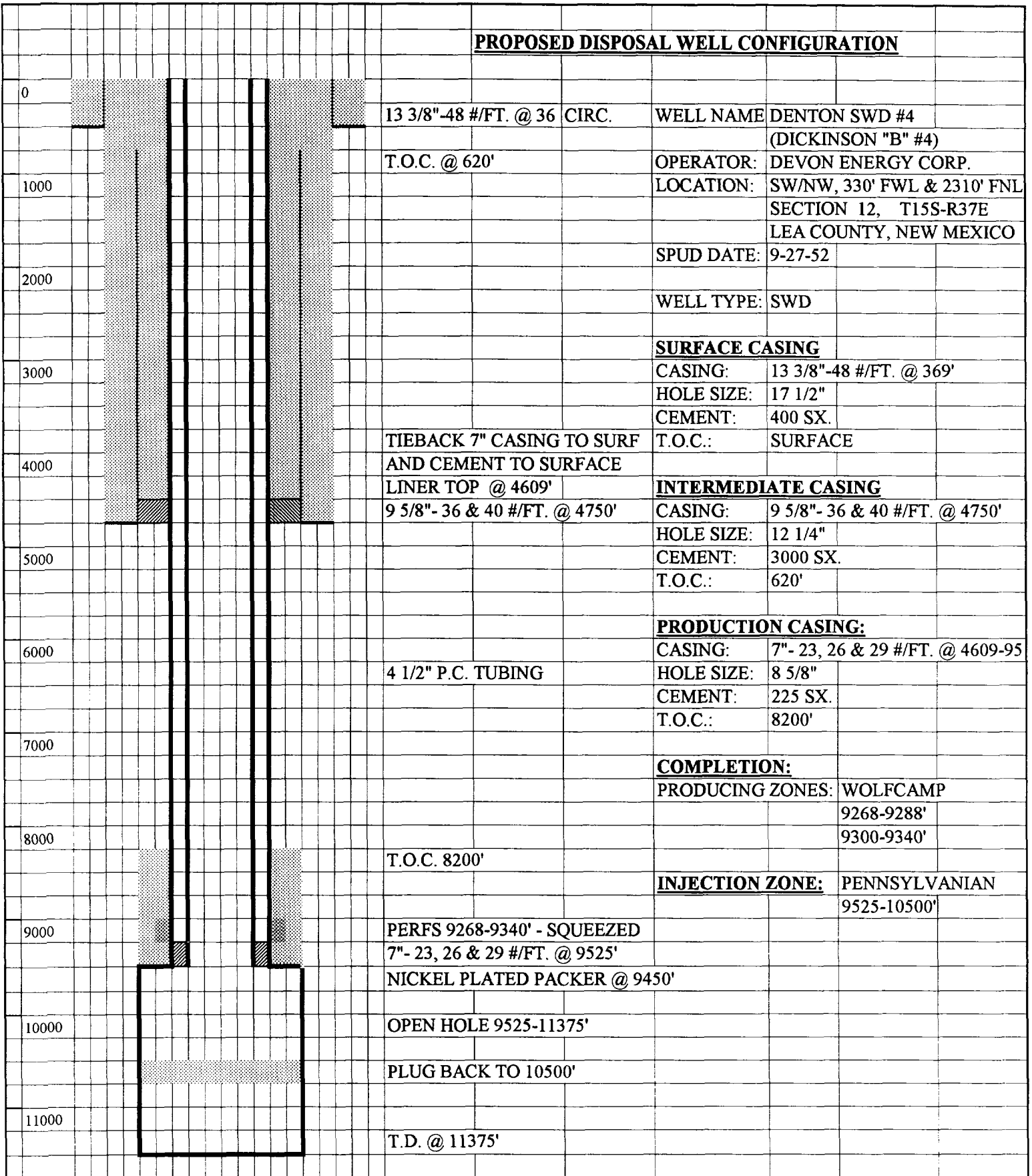
COMPLETION:

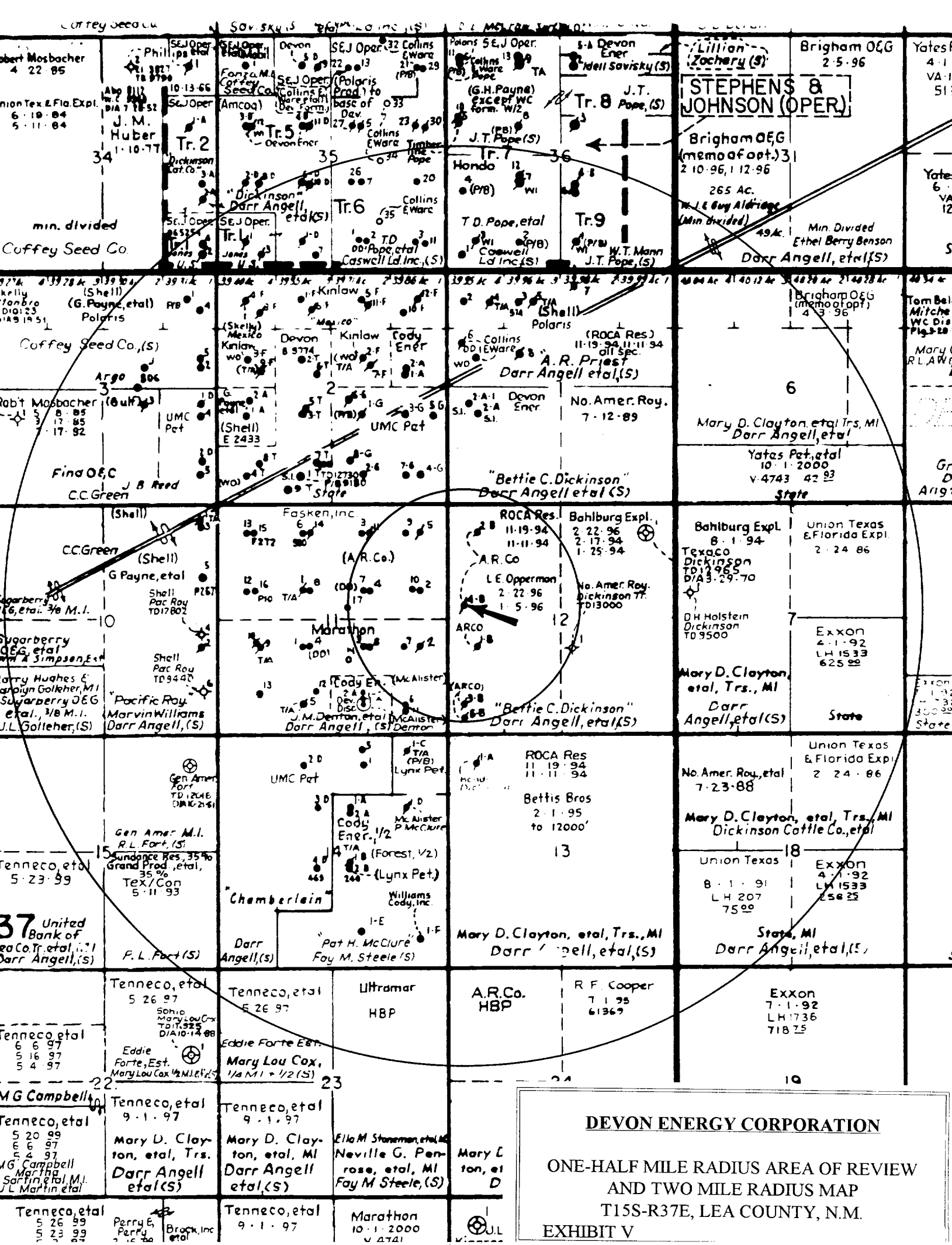
PRODUCING ZONES: WOLFCAM 9268-9288'
9300-9340'

INJECTION ZONE:

PENNSYLVANIAN
9525-10500'

PROPOSED DISPOSAL WELL CONFIGURATION





DEVON ENERGY CORPORATION
ONE-HALF MILE RADIUS AREA OF REVIEW
AND TWO MILE RADIUS MAP
T15S-R37E, LEA COUNTY, N.M.
EXHIBIT V

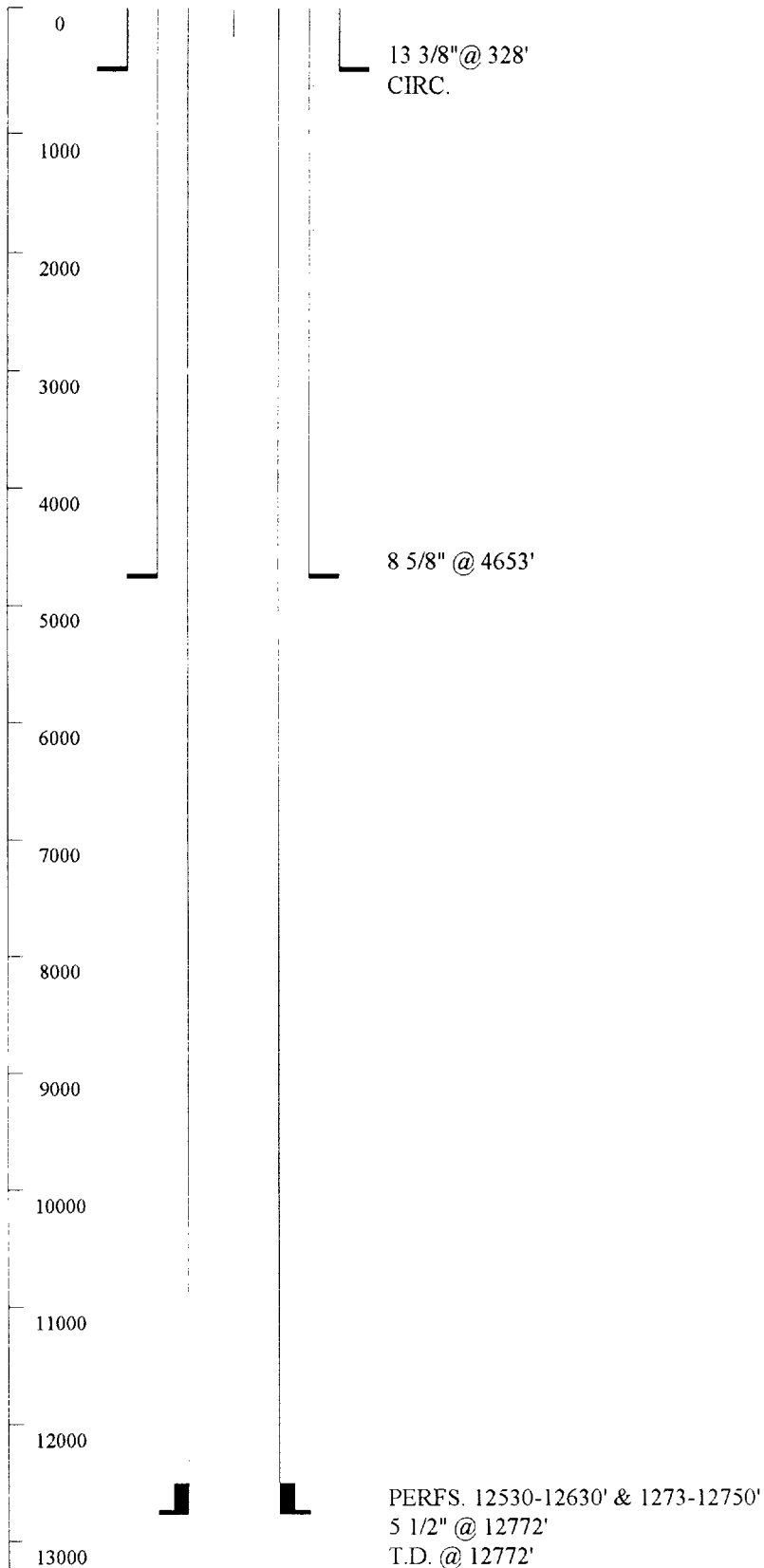
VI. TABULATION OF WELL DATA**DEVON ENERGY CORPORATION**

**DENTON SWD #4 (B.C. DICKINSON "B" #4)
330' FWL & 2310' FNL
SECTION 12-T15S-R37E
LEA COUNTY, NEW MEXICO**

THE FOLLOWING WELLS ARE IN THE ONE-HALF MILE RADIUS OF REVIEW.

<u>OPERATOR</u>	<u>WELL NAME</u>	<u>LOCATION</u>
BARBRA FASKEN, INC.	DENTON #2	SE/NE SECTION 11-T15S-R37E
BARBRA FASKEN, INC.	DENTON #4	SW/NE SECTION 11-T15S-R37E
PHILLIPS PETROLEUM CO.	DENTON #5	NE/NE SECTION 11-T15S-R37E
BARBRA FASKEN, INC.	DENTON #7	SW/NE SECTION 11-T15S-R37E
BARBRA FASKEN, INC.	DENTON #9	NE/NE SECTION 11-T15S-R37E
BARBRA FASKEN, INC.	DENTON #10	SE/NE SECTION 11-T15S-R37E
BARBRA FASKEN, INC.	DENTON #17	SW/NE SECTION 11-T15S-R37E
MARATHON OIL CO.	J.M. DENTON #2	NE/SE SECTION 11-T15S-R37E
MARATHON OIL CO.	DENTON #3	NW/SE SECTION 11-T15S-R37E
MARATHON OIL CO.	J.M. DENTON #6	SE/SE SECTION 11-T15S-R37E
MARATHON OIL CO.	J.M. DENTON #7	NE/SE SECTION 11-T15S-R37E
MARATHON OIL CO.	J.M. DENTON #8	NW/SE SECTION 11-T15S-R37E
ATLANTIC RICHFIELD CO.	B.C. DICKINSON "B" #1	SW/SW SECTION 12-T15S-R37E
ATLANTIC RICHFIELD CO.	B.C. DICKINSON "B" #2	NW/NW SECTION 12-T15S-R37E
ATLANTIC RICHFIELD CO.	B.C. DICKINSON "B" #3	SW/SW SECTION 12-T15S-R37E
DEVON ENERGY CORP.	DENTON SWD #3 (B.C. DICKINSON "B" #5)	SW/SW SECTION 12-T15S-R37E
BETTIS-BOYLE-STOVALL	DICKINSON TRUST #1	NW/SE SECTION 12-T15S-R37E

INCLUDED IS A WELLBORE SKEMATIC FOR EACH WELL WITH SPECIFIC DATA AS IT RELATES TO EACH WELL.



WELL NAME: DENTON #2
OPERATOR: BARBRA FASKEN, INC.
LOCATION: SE/NE, 1979' FNL & 662 FEL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 5-28-51

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 328'
HOLE SIZE: 17 1/2'
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

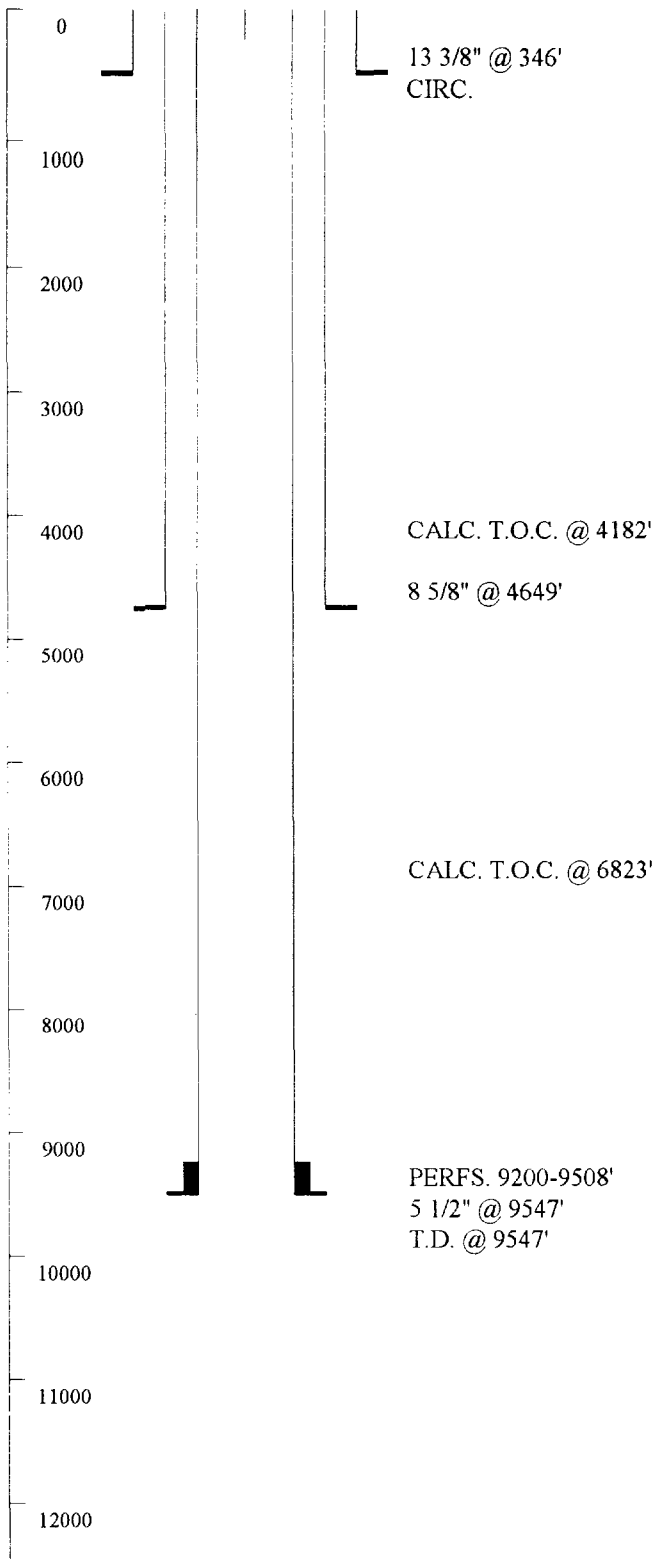
CASING: 8 5/8" @ 4653'
HOLE SIZE: 11'
CEMENT: 3150 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 12772'
HOLE SIZE: 7 7/8"
CEMENT: 1130 SX.
T.O.C.: 6617 (CALC.)

COMPLETION:

PRODUCING ZONES: DEVONIAN 12530-12630
12730-12750
6500 GALS. ACID



WELL NAME: J.M. DENTON #4
OPERATOR: BARBRA FASKEN, INC.
LOCATION: SW/NE, 1980' FNL & 1812' FEL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

COMPL. DAT 5-18-52

WELL TYPE: OIL WELL T/A

SURFACE CASING

CASING: 13 3/8" @ 346'
HOLE SIZE: 17 1/2"
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

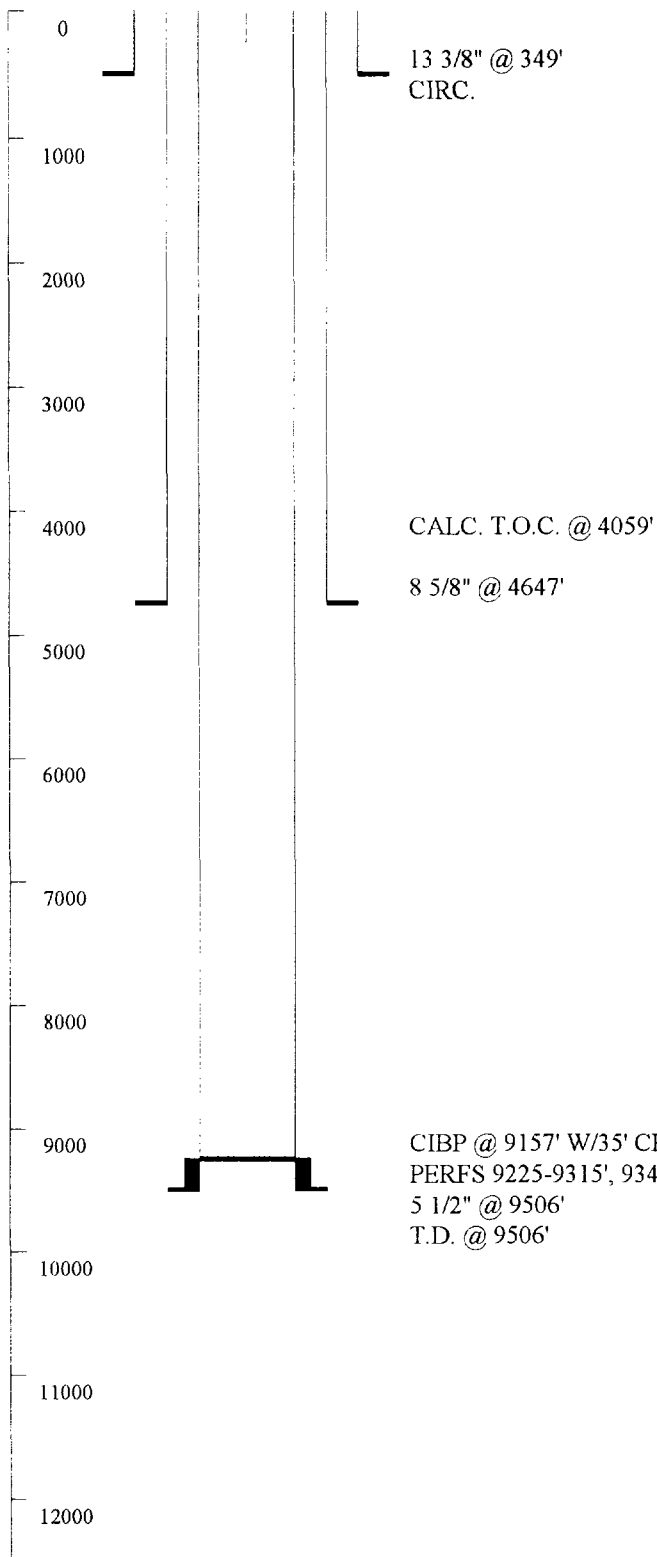
CASING: 8 5/8" @ 4649'
HOLE SIZE: 11"
CEMENT: 180 SX.
T.O.C.: 4182 (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 9547'
HOLE SIZE: 7 7/8"
CEMENT: 925
T.O.C.: 4508 (CALC.)

COMPLETION:

PRODUCING ZONES: WOLFCAMP 9470-9508'
9425-9450'
9355-9386'
9265-9290'
9020-9170'
9200-9265'
5500 GALS. ACID



WELL NAME: J.M. DENTON #5
OPERATOR: PHILLIPS PETROLEUM CO.
LOCATION: NE/NE, 658' FNL & 662' FEL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 5-25-52 4-28-93

WELL TYPE: OIL WELL T.A.

SURFACE CASING

CASING: 13 3/8" @ 349'
HOLE SIZE: 17 1/2"
CEMENT: 380 SX
T.O.C.: SURFACE

INTERMEDIATE CASING

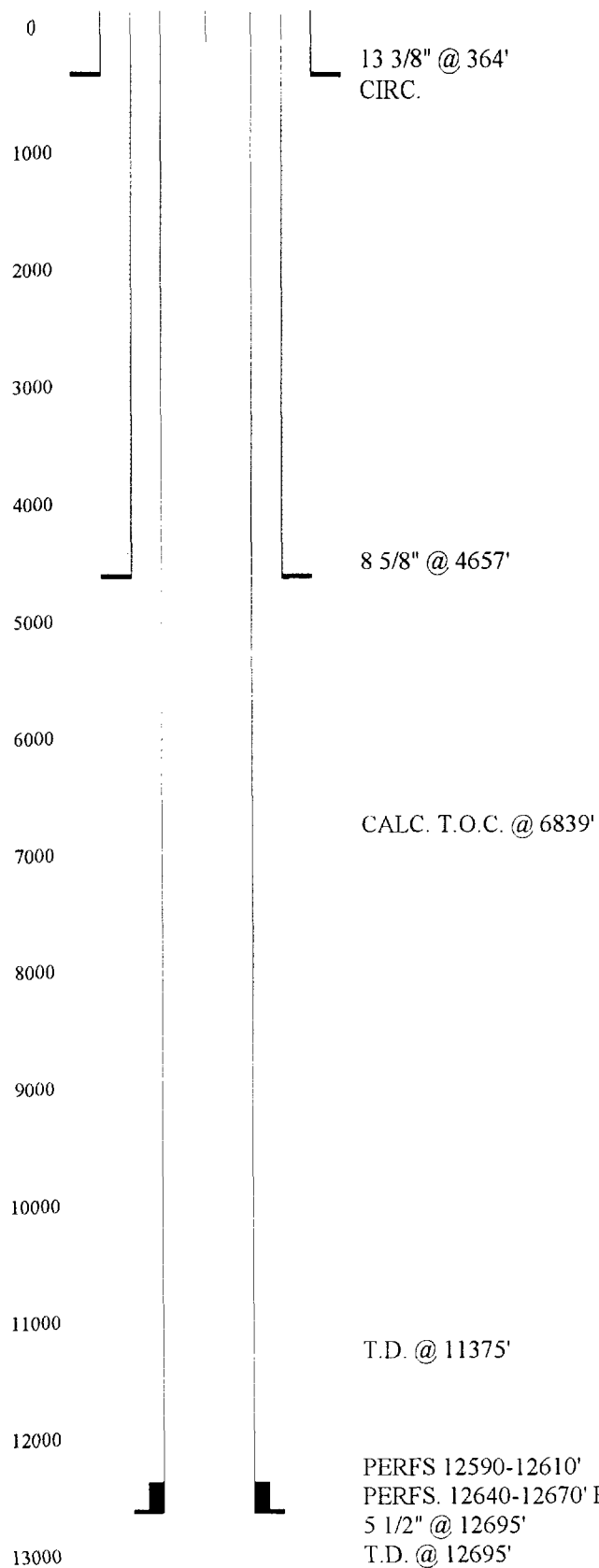
CASING: 8 5/8" @ 4647'
HOLE SIZE: 11"
CEMENT: 1750 SX
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 9506'
HOLE SIZE: 7 7/8"
CEMENT: 1000 SX.
T.O.C.: 4059 (CALC.)

COMPLETION:

PRODUCING ZONES: WOLFCAMP 9345-9415'
9415-9440'
9225-9315'
1000 GALS. ACID
9470-9495' SQUEEZED



WELL NAME: DENTON #7
OPERATOR: BARBRA FASKEN, INC.
LOCATION: SW/NE, 1980' FNL & 1987' FEL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 11-5-51

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 364'
HOLE SIZE: 17 1/2"
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

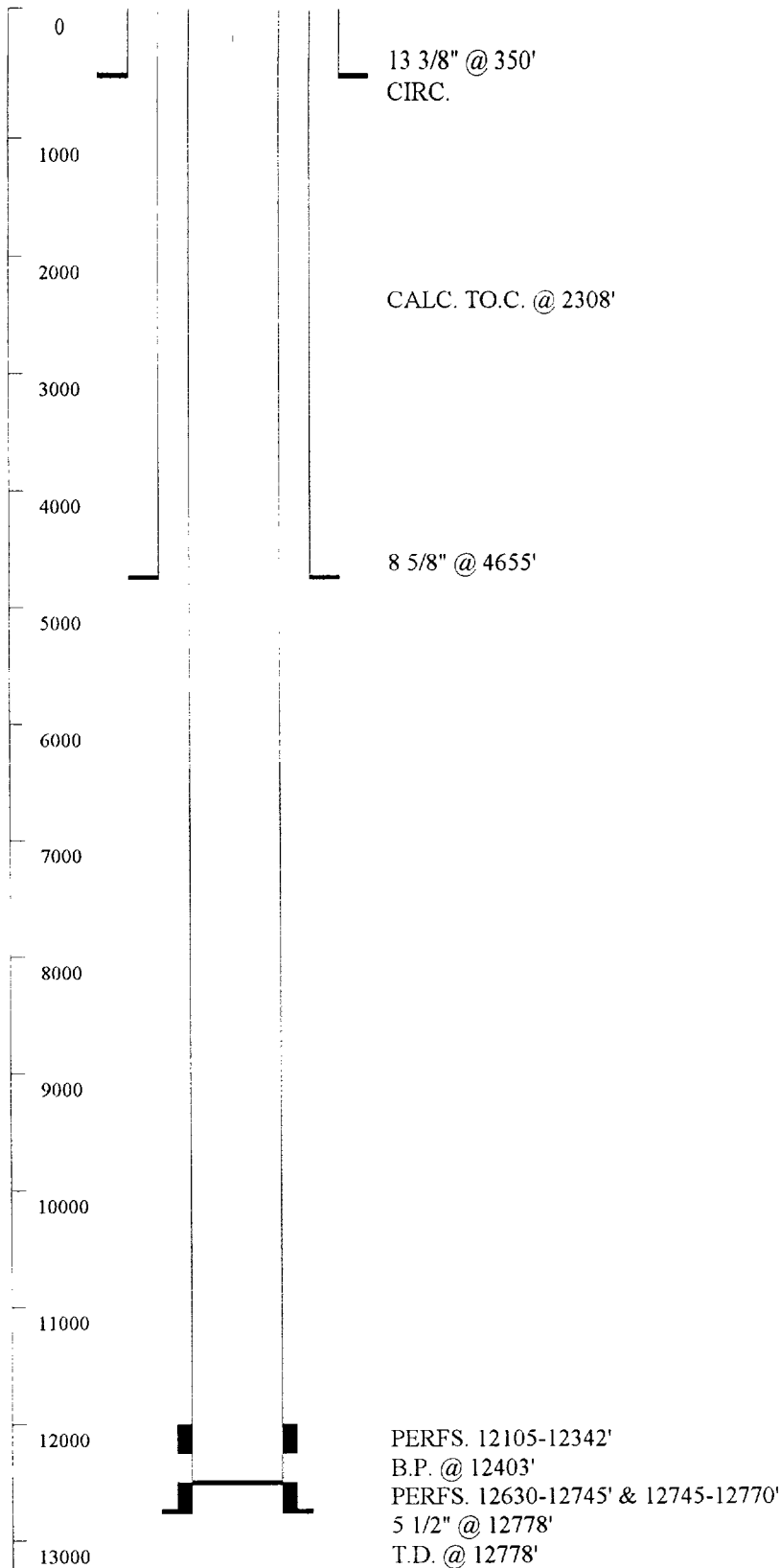
CASING: 8 5/8" @ 4657'
HOLE SIZE: 11"
CEMENT: 1825 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 12695'
HOLE SIZE: 7 7/8"
CEMENT: 1075 SX.
T.O.C.: 6839 (CALC.)

COMPLETION:

PRODUCING ZONES: DEVONIAN 12640-1267
500 GALS. ACID
5000 GALS. ACID
12590-12610'
3500 GALS. ACID



WELL NAME: DENTON #9
OPERATOR: BARBRA FASKEN, INC.
LOCATION: NE/NE, 660' FNL & 990' FEL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 11-30-52

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 350'
HOLE SIZE: 17 1/2"
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

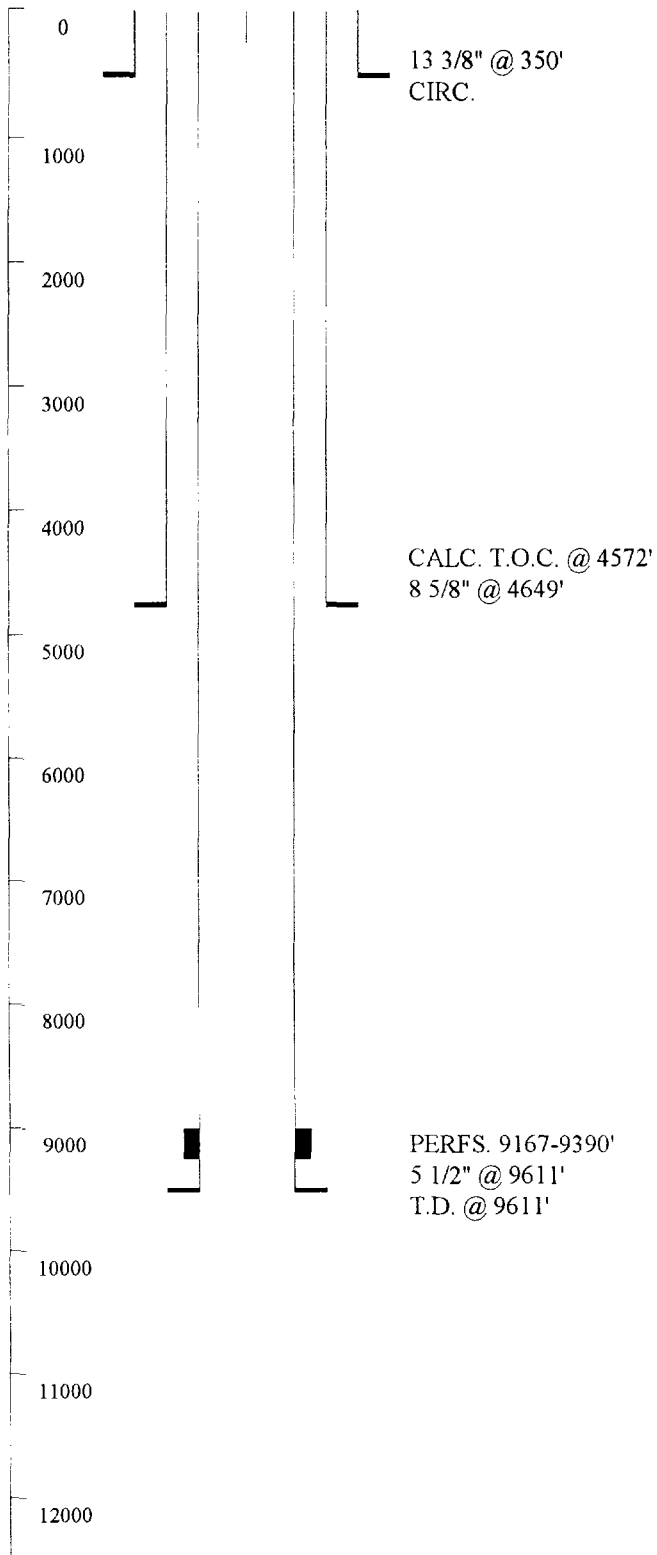
CASING: 8 5/8" @ 4655'
HOLE SIZE: 11"
CEMENT: 2400 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 12778'
HOLE SIZE: 7 7/8"
CEMENT: 1160 SX.
T.O.C.: 6459 (CALC.)

COMPLETION:

PRODUCING ZONES: DEVONIAN 12745-12770
12630-12745
12105-12342
1000 GALS. ACID
10000 GALS. ACID



WELL NAME: DENTON #10
OPERATOR: BARBRA FASKEN, INC.
LOCATION: SE/NE, 1982' FNL & 562' FEL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 5-8-52

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 350'
HOLE SIZE: 17 1/2"
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

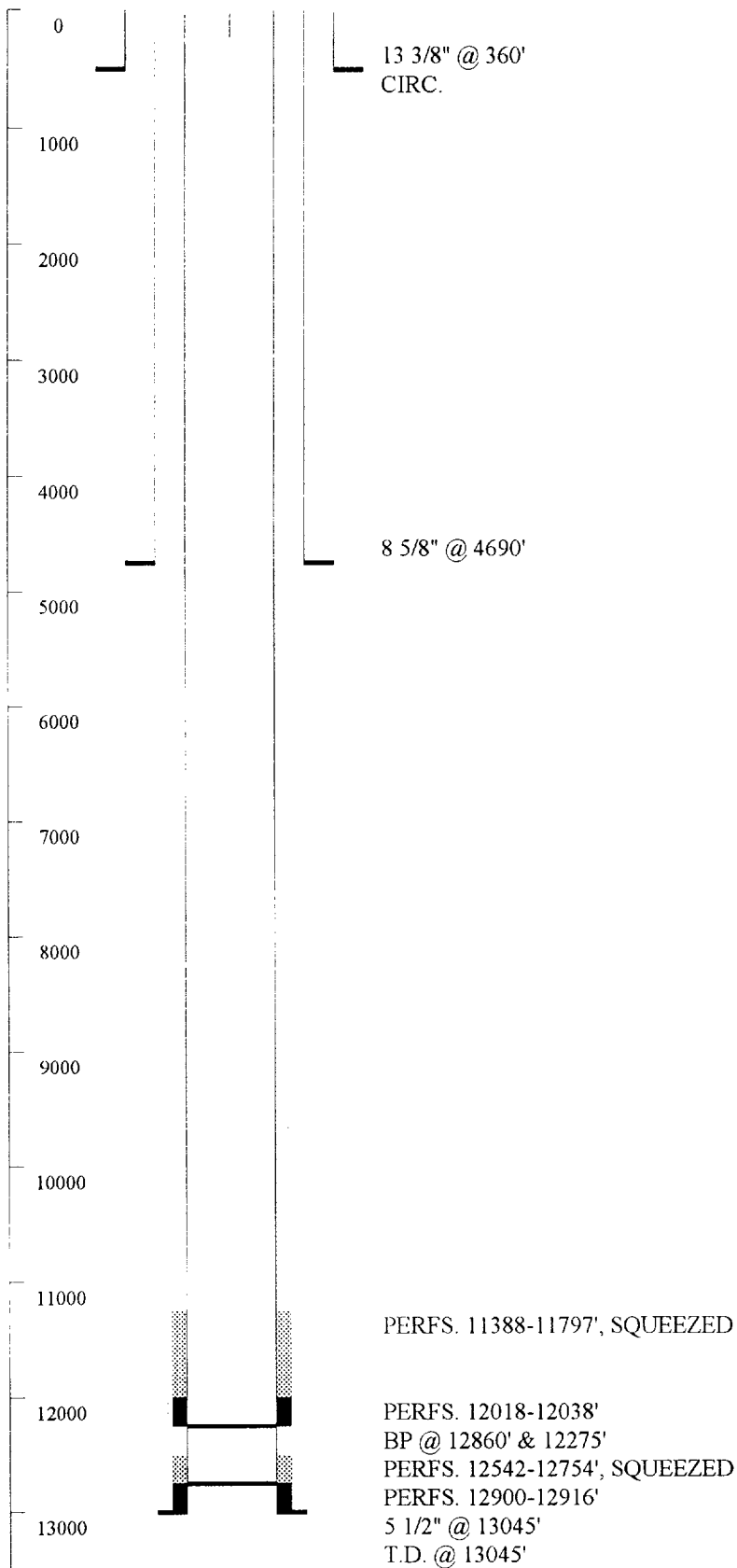
CASING: 8 5/8" @ 4649'
HOLE SIZE: 11"
CEMENT: 2400 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 9611'
HOLE SIZE: 7 7/8"
CEMENT: 925 SX.
T.O.C.: 4572 (CALC.)

COMPLETION:

PRODUCING ZONES: WOLFCAMP 9167-9390'
3000 GALS. ACID



WELL NAME: DENTON #17
 OPERATOR: BARBRA FASKEN, INC.
 LOCATION: SW/NE, 2302' FNL & 2310' FEL
 SECTION 11, T15S-R37E
 LEA COUNTY, NEW MEXICO

SPUD DATE: 10-4-76

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 360'
 HOLE SIZE: 17 1/2"
 CEMENT: 350
 T.O.C.: SURFACE

INTERMEDIATE CASING

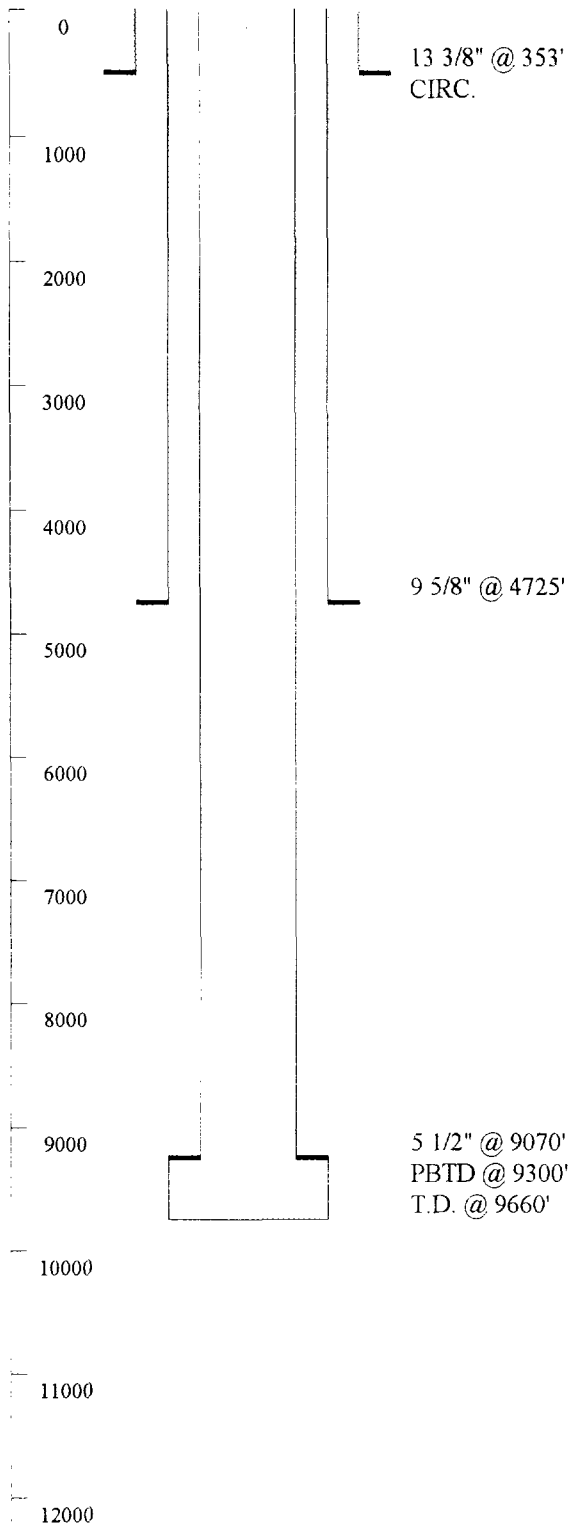
CASING: 8 5/8" @ 4690'
 HOLE SIZE: 11"
 CEMENT: 1850 SX
 T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 13045'
 HOLE SIZE: 7 7/8"
 CEMENT: 2060 SX
 T.O.C.: 4650' TEMP. SURVEY

COMPLETION:

PRODUCING ZONES: DEVONIAN 12900-910
 CIBP @ 12860'
 12748-754
 12756-12760'
 12801-12811'
 12522-12530'
 12542-12546'
 SQUEEZED
 BP @ 12275'
 12018-12038'
 4000 GALS. ACID
 11388-11797'
 SQUEEZED



WELL NAME: J.M. DENTON #2
OPERATOR: MARATHON OIL CO.
LOCATION: NE/SE, 1980' FSL & 660' FEL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 4-4-50

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 353'
HOLE SIZE: 17 1/2"
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

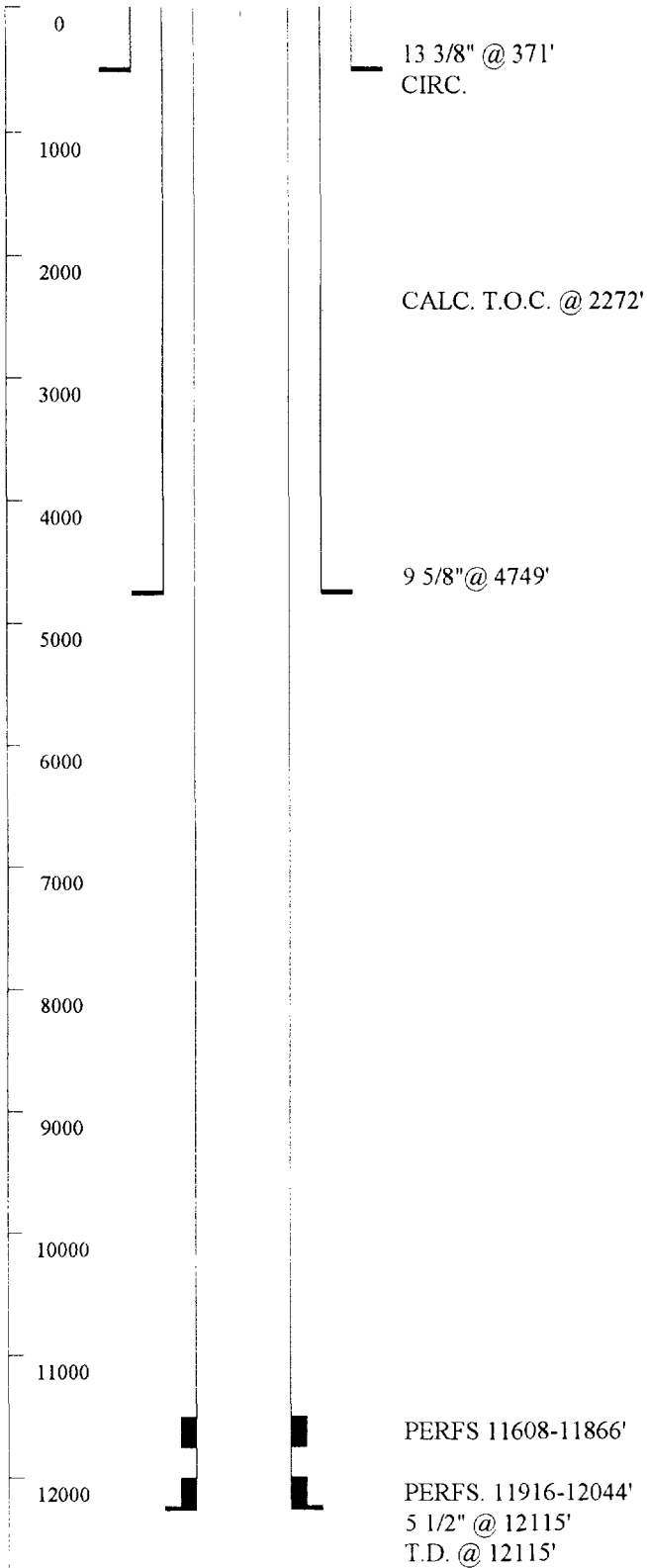
CASING: 9 5/8" @ 4725'
HOLE SIZE: 12 1/4"
CEMENT: 2000 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 9070'
HOLE SIZE: 7 7/8"
CEMENT: 1700 SX.
T.O.C.: SURFACE (CALC.)

COMPLETION:

PRODUCING ZONES: WOLFCAMP 9070-9300'



WELL NAME: DENTON #3
OPERATOR: MARATHON OIL COMPANY
LOCATION: NW/SE, 1980' FEL & 1980' FSL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 8-25-50

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 371'
HOLE SIZE: 17 1/2"
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

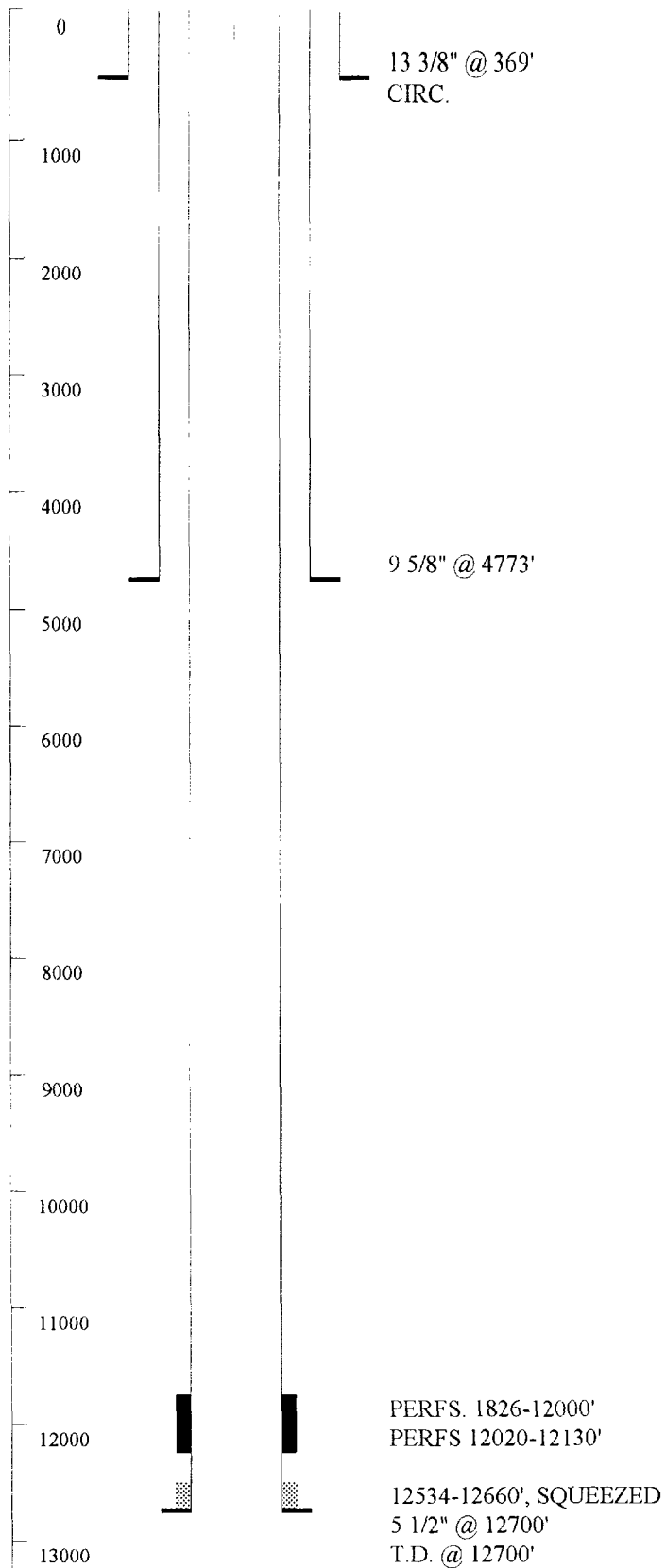
CASING: 9 5/8" @ 4749'
HOLE SIZE: 12 1/4"
CEMENT: 2000 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 12115'
HOLE SIZE: 7 7/8"
CEMENT: 1807 SX
T.O.C.: 2272 (CALC.)

COMPLETION:

PRODUCING ZONES: DEVONIAN 11916-12044
5000 GALS. ACID
11608-11866'
13000 GALS. ACID



WELL NAME: DENTON #6
OPERATOR: MARATHON OIL COMPANY
LOCATION: SE/SE, 990' FEL & 660' FSL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 12-27-51

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 369'
HOLE SIZE: 17 1/2"
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

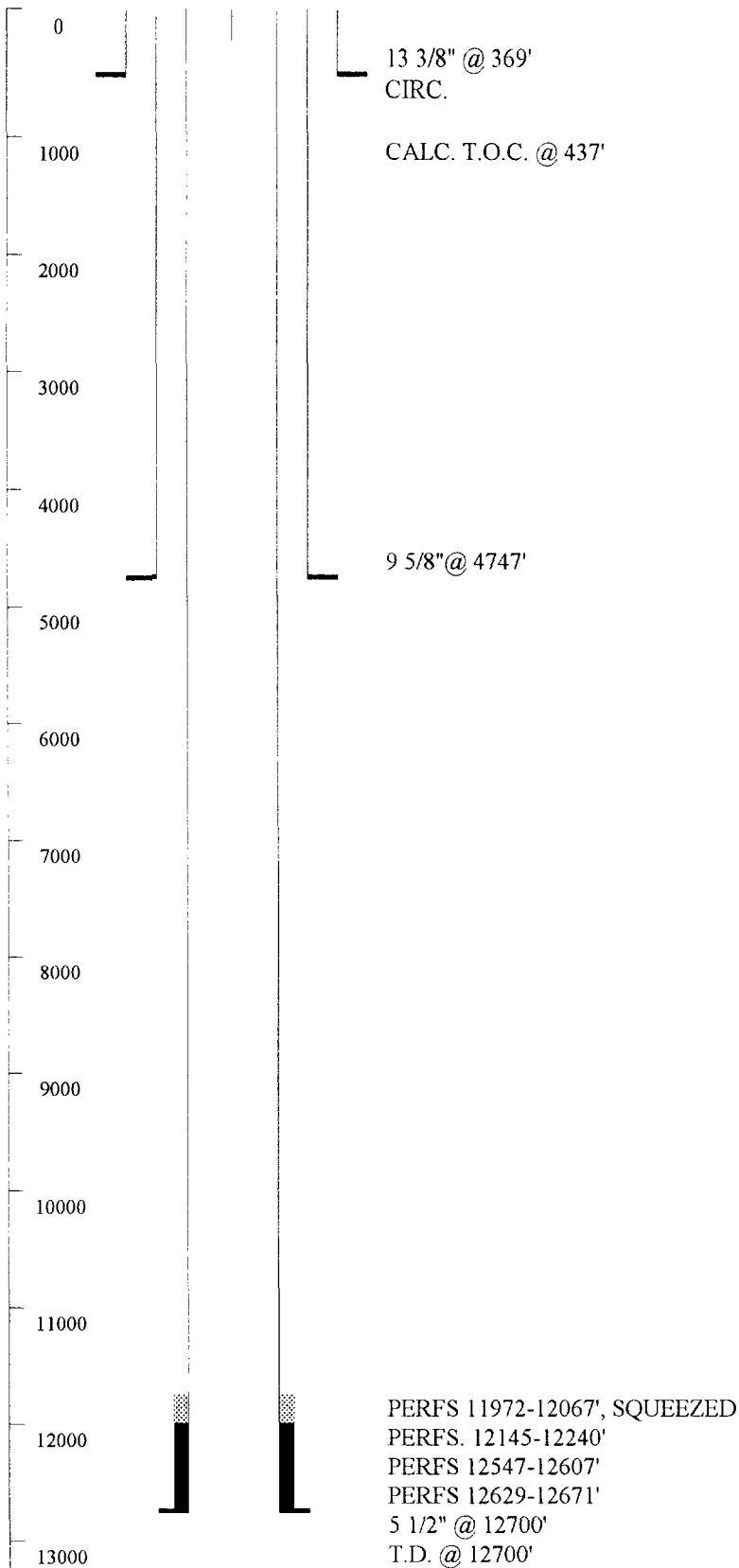
CASING: 9 5/8" @ 4773'
HOLE SIZE: 12 1/4"
CEMENT: 1800 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 12700'
HOLE SIZE: 7 7/8"
CEMENT: 1936 SX.
T.O.C.: 2154 (CALC.)

COMPLETION:

PRODUCING ZONES: DEVONIAN 12534-12601
12616-12660'
12020-12130
1000 GALS. ACID
3000 GALS. ACID
11826-12000
2000 GALS. ACID



WELL NAME: J.M. DENTON #7
OPERATOR: MARATHON OIL CO.
LOCATION: NE/SE, 990' FEL & 1980' FSL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 12-29-51

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 369'
HOLE SIZE: 17 7/8"
CEMENT: 350 SX.
T.O.C.: SURFACE (CALC.)

INTERMEDIATE CASING

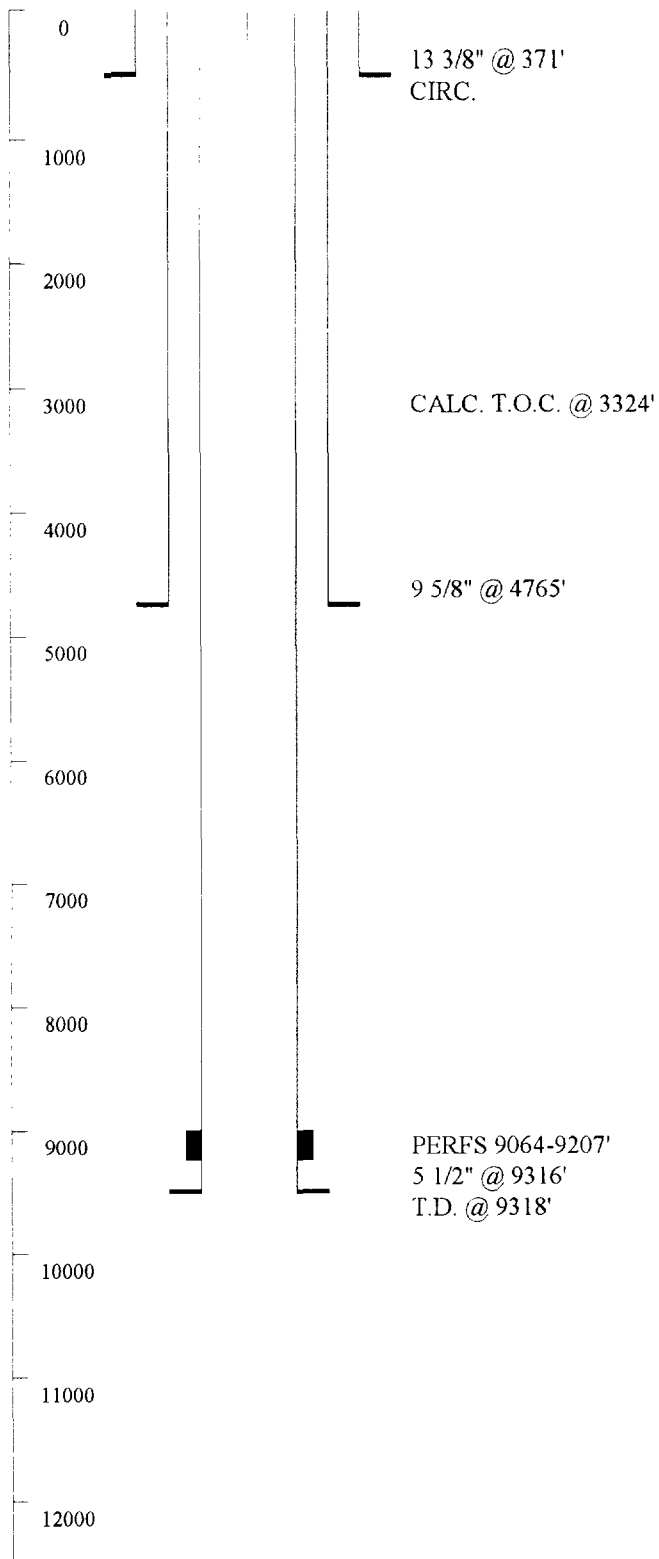
CASING: 9 5/8" @ 4747'
HOLE SIZE: 12 1/4"
CEMENT: 1800 SX.
T.O.C.: 437 (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 12700'
HOLE SIZE: 8 3/4"
CEMENT: 991 SX
T.O.C.: 7302 (CALC.)

COMPLETION:

PRODUCING ZONES: DEVONIAN 12547-12607
12629-12671'
12145-12240'
3000 GALS. ACID
11972-12067 SQUEEZED



WELL NAME: J.M. DENTON #8
OPERATOR: MARATHON OIL CO.
LOCATION: NW/SE, 1880' FEL 7 1980' FSL
SECTION 11, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 7-6-52

WELL TYPE: OIL WELL

SURFACE CASING

CASING: 13 3/8" @ 371'
HOLE SIZE: 17 1/2"
CEMENT: 350 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

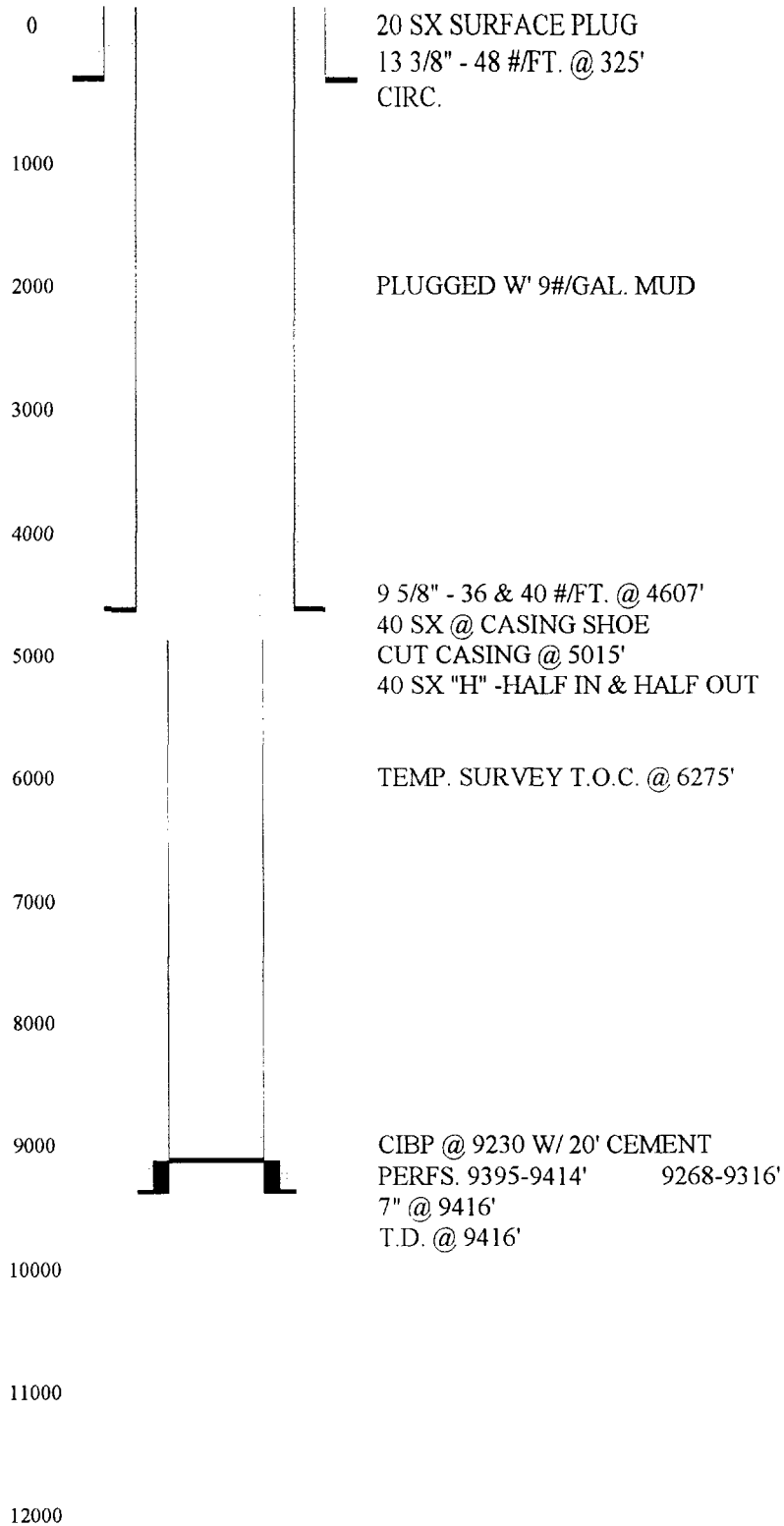
CASING: 9 5/8" @ 4765'
HOLE SIZE: 12 1/4"
CEMENT: 1800 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 5 1/2" @ 9316'
HOLE SIZE: 7 7/8"
CEMENT: 1100 SX.
T.O.C.: 3324 (CALC.)

COMPLETION:

PRODUCING ZONES: WOLFCAMP 9064-9207'
9750 GALS. ACID



WELL NAME: B.C. DICKINSON "B" #1
OPERATOR: ATLANTIC RICHFIELD CO.
LOCATION: SW/SW, 1980' FSL & 660' FWL
SECTION 12, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 12-8-49 PLUGGED 1-27-72

WELL TYPE: OIL WELL **P & A**

SURFACE CASING

CASING: 13 3/8" - 48 #/FT. @ 325'
HOLE SIZE: 17 1/2"
CEMENT: 450 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

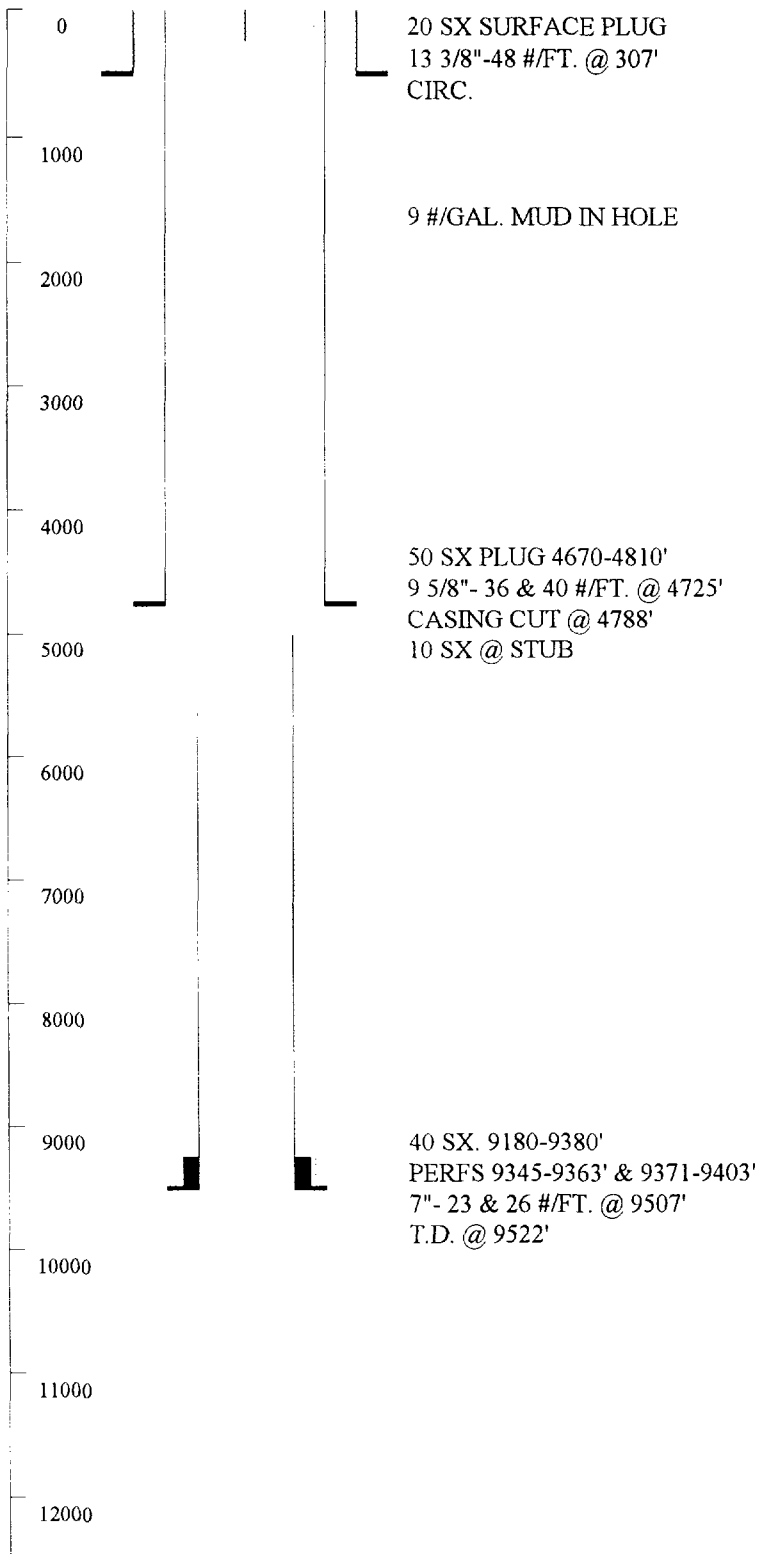
CASING: 9 5/8" - 36 & 40 #/FT. @ 4607'
HOLE SIZE: 12 1/4"
CEMENT: 3000 SX.
T.O.C.: SURFACE

PRODUCTION CASING:

CASING: 7" @ 9416'
HOLE SIZE: 8 3/4"
CEMENT: 750 SX.
T.O.C.: TEMP. SURVEY T.O.C. @ 6275'

COMPLETION:

PRODUCING ZONES: WOLFCAMP 9395-9414'
3000 GALS. ACID
9268-9316'
2500 GALS. ACID
5000 GALS. ACID
10000 GALS. ACID



WELL NAME: B.C DICKINSON "B" #2
OPERATOR: ATLANTIC RICHFIELD CO.
LOCATION: NW/NW, 660' FNL & 660' FWL
SECTION 12, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 2-7-51 PLUGGED 6-30-70

WELL TYPE: OIL WELL P & A

SURFACE CASING

CASING: 13 3/8"-48 #/FT. @ 307'
HOLE SIZE: 17 1/2"
CEMENT: 375 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

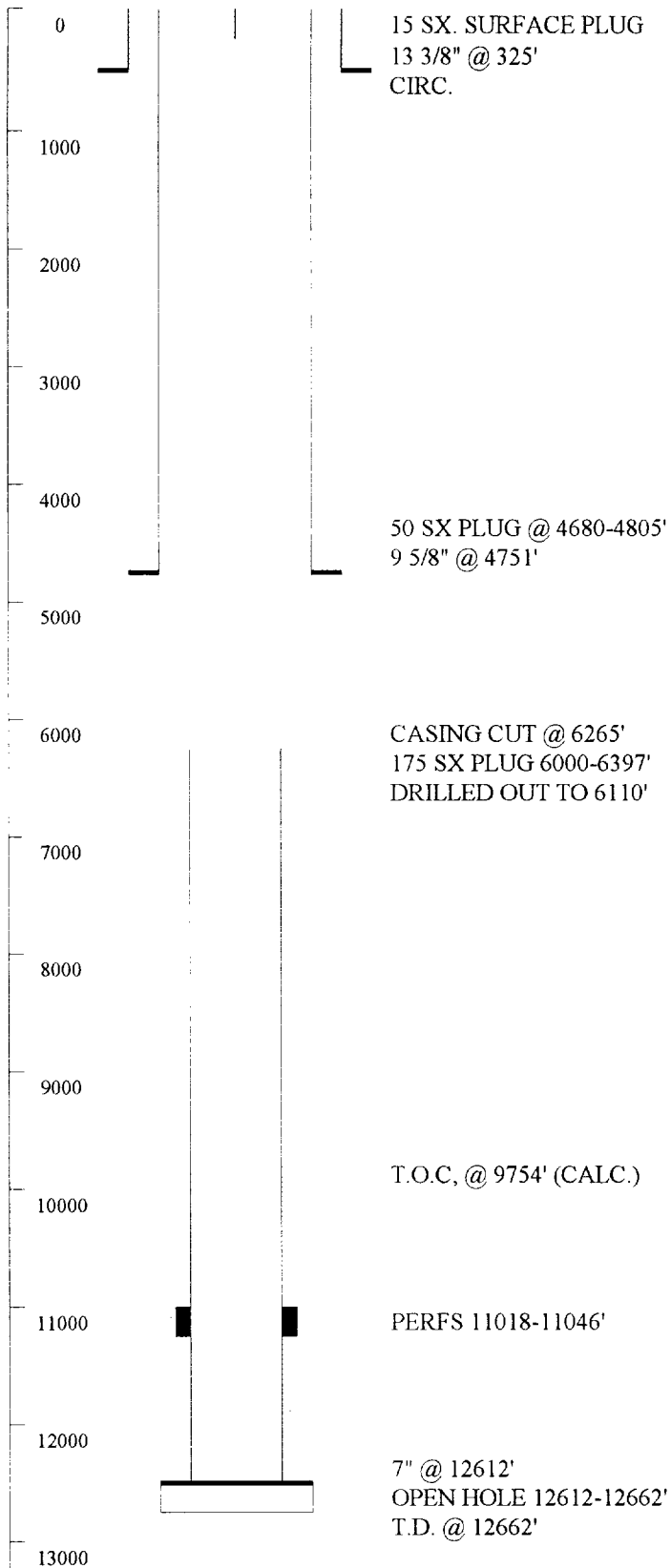
CASING: 9 5/8"- 36 & 40 #/FT. @ 4725'
HOLE SIZE: 12 1/4"
CEMENT: 3000 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 7"- 23 & 26 #/FT. @ 9507'
HOLE SIZE: 8 3/4"
CEMENT: 600 SX.
T.O.C.: +/- 5000'

COMPLETION:

PRODUCING ZONES: WOLF CAMP 9345-9363'
9371-9403'
10000 GALS. ACID



WELL NAME: B.C. DICKINSON "B" #3
OPERATOR: ATLANTIC RICHFIELD CO.
LOCATION: SW/SW, 660' FSL & 330' FWL
SECTION 12, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 4-15-52 PLUGGED 3-30-67

WELL TYPE: OIL WELL P & A

SURFACE CASING

CASING: 13 3/8" @ 325'
HOLE SIZE: 17 1/2"
CEMENT: 325 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

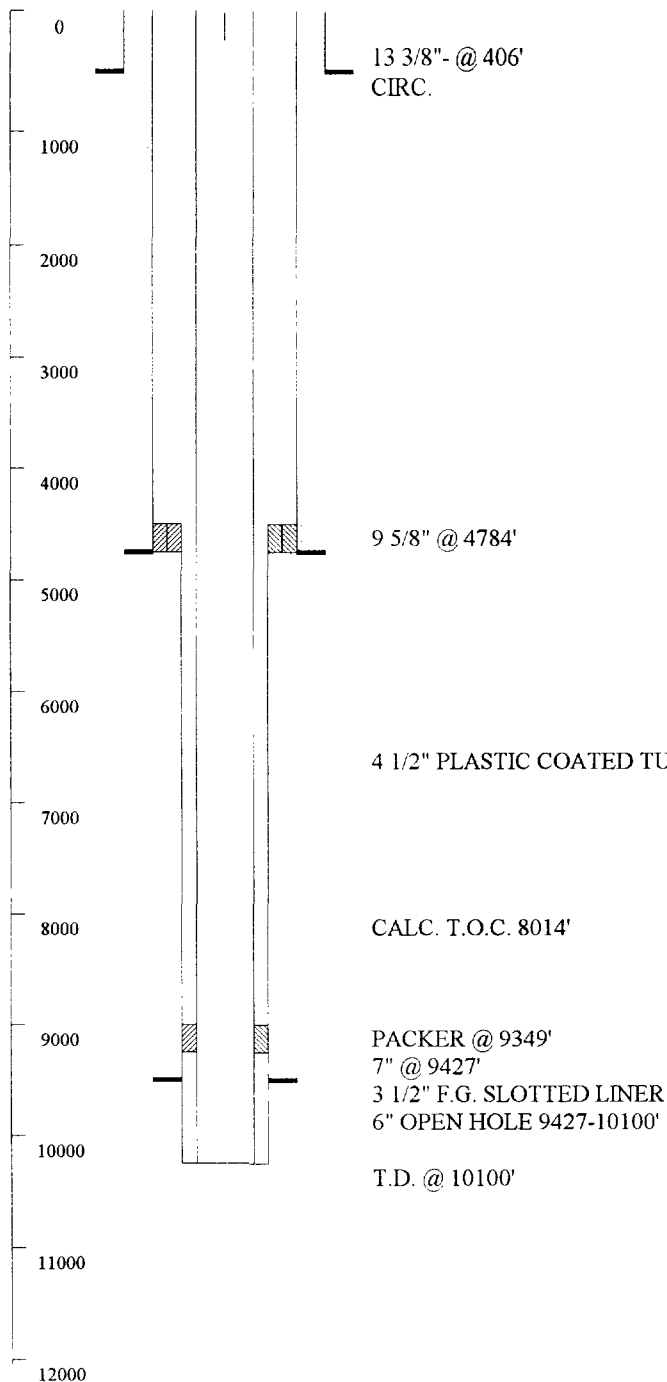
CASING: 9 5/8" @ 4751'
HOLE SIZE: 12 1/4"
CEMENT: 3000 SX.
T.O.C.: SURFACE (CALC.)

PRODUCTION CASING:

CASING: 7" @ 12612'
HOLE SIZE: 8 3/4"
CEMENT: 455 SX
T.O.C.: 9754 (CALC.)

COMPLETION:

PRODUCING ZONES: DEVONIAN
11018-11046



WELL NAME: DENTON SWD #3 (B.C. DICKINSON "B" #5)
OPERATOR: DEVON ENERGY CORPORATION
LOCATION: SW/SW, 330' FSL & 330' FWL
SECTION 12, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 2-3-53

WELL TYPE: SWD (7-1-88)

SURFACE CASING

CASING: 13 3/8" - @ 406'
HOLE SIZE: 17 1/2"
CEMENT: 400 SX.
T.O.C.: SURFACE

INTERMEDIATE CASING

CASING: 9 5/8" @ 4784'
HOLE SIZE: 12 1/4"
CEMENT: 3000 SX
T.O.C.: SURFACE

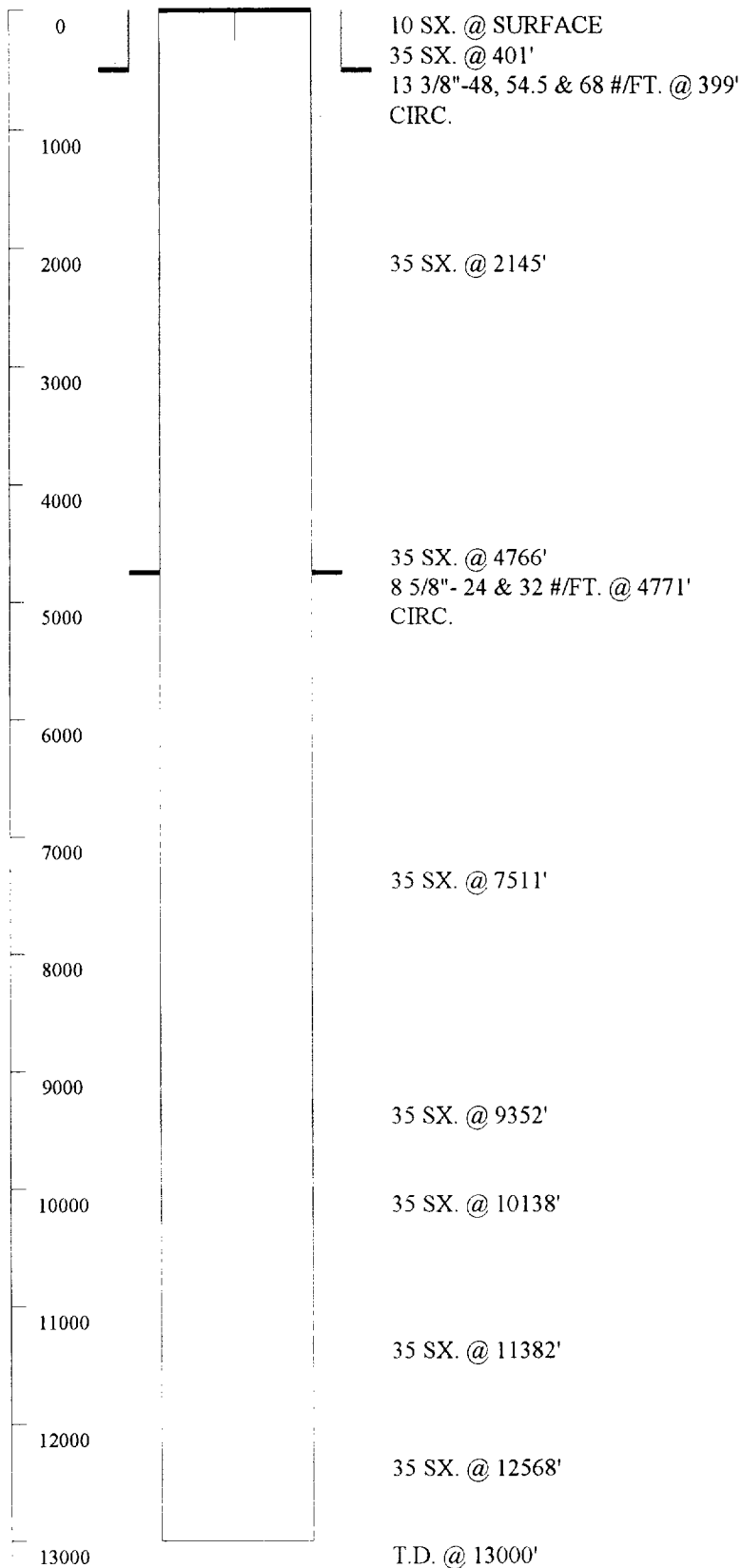
PRODUCTION CASING:

CASING: 7" @ 9427'
HOLE SIZE: 8 3/4"
CEMENT: 225 SX.
T.O.C.: 8014 (CALC.)

COMPLETION:

INJECTION ZONES: PENN 9427-10100'
10000 GALS. 15% ACID

WOLFCAMP 9220-9300' SQUEEZED



WELL NAME: DICKINSON TRUST #1
OPERATOR: BETTIS-BOYLE-STOVALL
LOCATION: NW/SE, 1980' FSL & 2310' FEL
SECTION 12, T15S-R37E
LEA COUNTY, NEW MEXICO

SPUD DATE: 7-11-87

WELL TYPE: D & A 9-8-87

SURFACE CASING

CASING: 13 3/8"-48, 54.5 & 68 #/FT. @ 399'
HOLE SIZE: 17 1/2"
CEMENT: 450 SX
T.O.C.: SURFACE

INTERMEDIATE CASING

CASING: 8 5/8"- 24 & 32 #/FT. @ 4771'
HOLE SIZE: 11"
CEMENT: 2150 SX
T.O.C.: SURFACE

PRODUCTION INTERVAL:

T.D.: 13000'
HOLE SIZE: 7 7/8"

COMPLETION:

TESTED DEVONIAN - HIGH WATER CUT

DEVON ENERGY CORPORATION

DENTON SWD #4 (B.C. DICKINSON "B" #4)
 330' FWL & 2310' FNL
 SECTION 12-T15S-R37E
 LEA COUNTY, NEW MEXICO

VII. PROPOSED OPERATION:

VOLUME OF FLUID TO BE INJECTED: AVERAGE DAILY RATE 10,000 BWPD
 MAXIMUM DAILY RATE 15,000 BWPD

SYSTEM TYPE: CLOSED

INJECTION PRESSURE: AVERAGE INJECTION PRESSURE 1000 PSI
 MAXIMUM INJECTION PRESSURE 1500 PSI

WATER SOURCE: PRODUCED DEVONIAN AND WOLFCAMP WATER FROM WELLS IN THE
 DENTON FIELD

<u>PRODUCED WATER ANALYSIS:</u>	<u>STATE "T" #8 WOLFCAMP</u>	<u>STATE "T" #3 DEVONIAN</u>
TOTAL HARDNESS	286.00 me/l	246.00 me/l
CALCIUM	4,200.00 mg/l	4,640.00 mg/l
MAGNESIUM	927.20 mg/l	170.00 mg/l
IRON	5.00 mg/l	15.00 mg/l
SODIUM	37,418.47 mg/l	23,738.53 mg/l
CHLORIDE	66,000.00 mg/l	44,000.00 mg/l
SULFATE	2,050.00 mg/l	1,750.00 mg/l
CARBONATE	0.00 mg/l	0.00 mg/l
BICARBONATE	689.30 mg/l	115.90 mg/l
CARBON DIOXIDE	71.30 mg/l	35.60 mg/l
HYDROGEN SULFIDE	250.00 mg/l	100.00 mg/l
pH	6.90	6.60
SPECIFIC GRAVITY	1.05	1.05
TDS	111,290.00 PPM	74,448.10 PPM

DISPOSAL ZONE WATER ANALYSIS IS NOT AVAILABLE

DEVON ENERGY CORPORATION

DENTON SWD #4 (B.C. DICKINSON "B" #4)
330' FWL & 2310' FNL
SECTION 12-T15S-R37E
LEA COUNTY, NEW MEXICO

VIII. GEOLOGICAL DATA:

GEOLOGICAL NAME: PENNSYLVANIAN

LITHOLOGICAL DETAIL: PRIMARILY DOLOMITE AND LIMESTONE INTERBEDDED WITH
SMALL AMOUNTS OF SHALE.

FORMATION TOP: 9500'

THICKNESS: 1000'

GEOLOGICAL DATA OF DRINKING

WATER ZONE: FRESH WATER IN THE AREA IS SHALLOW SURFACE WATER
USED FOR DOMESTIC PURPOSES AND LIVESTOCK WATERING.

DEVON ENERGY CORPORATION

DENTON SWD #4 (B.C. DICKINSON "B" #4)
330' FWL & 2310' FNL
SECTION 12-T15S-R37E
LEA COUNTY, NEW MEXICO

IX. PROPOSED STIMULATION PROGRAM:

ACID STIMULATION: THE INJECTION ZONE WILL BE ACIDIZED WITH 10,000 GALLONS OF 20% HCL NE ACID. ROCK SALT WILL BE USED AS A DIVERTING AGENT.

X. LOGGING AND TEST DATA: THIS WELL WAS DRILLED IN 1952. LOGS AND TEST DATA HAVE BEEN SUBMITTED TO THE COMMISSION.

DEVON ENERGY CORPORATION

DENTON SWD #4 (B.C. DICKINSON "B" #4)
330' FWL & 2310' FNL
SECTION 12-T15S-R37E
LEA COUNTY, NEW MEXICO

XI. ANALYSIS OF FRESH WATER WELLS:

MR. JOHNNY HERNANDEZ AT THE NEW MEXICO STATE ENGINEERS DISTRICT II OFFICE PROVIDED THE FOLLOWING DATA ON FRESH WATER WELLS IN THE AREA. FRESH WATER IN THE AREA IS SHALLOW SURFACE WATER USED FOR DOMESTIC PURPOSES AND LIVESTOCK WATERING.

<u>OWNER</u>	<u>DRILLED</u>	<u>LOCATION</u>	<u>DEPTH, FT.</u>	<u>SAMPLED</u>	<u>CHLORIDES</u>
J.M. DENTON	10-26-79	SECTION 11 - T15S-R37E	80		32
J.M. DENTON	10-3-84	SECTION 11 - T15S-R37E	80	11/84	41
DICKINSON RANCH	12-7-79	SECTION 12 - T15S-R37E	120		16
DICKINSON RANCH	10-3-84	SECTION 12 - T15S-R37E	120	11/84	46
DICKINSON RANCH	7-9-90	SECTION 12 - T15S-R37E	120	11/90	148

DEVON ENERGY CORPORATION

DENTON SWD #4 (B.C. DICKINSON "B" #4)
330' FWL & 2310' FNL
SECTION 12-T15S-R37E
LEA COUNTY, NEW MEXICO

XII. COMMUNICATION WITH SOURCES OF DRINKING WATER:

AFTER EXAMINING ALL AVAILABLE GEOLOGICAL AND ENGINEERING DATA, WE FIND NO EVIDENCE OF OPEN FAULTS OR ANY OTHER HYDROLOGIC CONNECTION BETWEEN THE INJECTION ZONE AND ANY UNDERGROUND SOURCE OF DRINKING WATER.

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

Publisher

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 _____

1 weeks.

Beginning with the issue dated

July 16, 1996

and ending with the issue dated

July 16, 1996

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 17th day of

July, 1996

Sandra Cuthbert

Notary Public.

My Commission expires

August 29, 1999

(Seal)

LEGAL NOTICE

July 16, 1996

PUBLIC NOTICE

APPLICATION FOR WATER DISPOSAL

Notice is hereby given that Devon Energy Corporation (Nevada) is applying to the New Mexico Oil Conservation Division for administrative approval and authority to inject salt water into the B.C. Dickinson "B" #4 (Denton SWD #4) located 2310' FNL and 330' FWL, Section 12-T15S-R137E, Lea County, New Mexico.

The purpose of the water injection well is to dispose of salt water produced from the Denton Wellcamp and Denton Devonian fields as currently designated by the Oil Conservation Division and as may be extended by additional drilling.

Water will be injected into the Pennsylvanian formation at an interval between 9,525' to 10,500'. The maximum injection rate and pressure are expected to be 15,000 BWPD and 1500 psi, respectively.

Any interested parties may file objections or requests for hearing within 15 days to the Oil Conservation Division, 2040 South Pacheco St., Santa Fe, New Mexico 87505-5472.

By: Emilio Bultross
District Engineer

Devon Energy Corporation (Nevada)
20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102
404-552-4509
14678

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.

FORM C-108 ATTACHMENT XIII, NOTICE

DEVON ENERGY CORPORATION

DENTON SWD #4 (D.C. DICKINSON "B" #4)
330' FWL & 2310' FNL
SECTION 12-T15S-R37E
LEA COUNTY, NEW MEXICO

A COPY OF THIS APPLICATION HAS BEEN FURNISHED BY CERTIFIED MAIL TO THE SURFACE OWNER AND TO EACH LEASE HOLD OPERATOR WITHIN ONE-HALF MILE OF THE PROPOSED SALT WATER DISPOSAL WELL.

AS FOLLOWS:

SURFACE OWNER: MR. DARR ANGELL
P.O. BOX 190
LOVINGTON, NM

OFFSET OPERATORS: MARATHON OIL COMPANY
P.O. BOX 552
MIDLAND, TX 79702

FASKEN OIL & RANCH INTERESTS
BARBRA FASKEN
303 W. WALL AVE., SUITE 1900
MIDLAND, TX 79701-5116

PHILLIPS PETROLEUM
4001 PEMBROOK
ODESSA, TX 79762

UMC PETROLEUM CORPORATION
1201 LOUISIANA, SUITE 1400
HOUSTON, TX 77002-5603

CODY ENERGY, INC.
7555 EAST HAMPDEN AVE., SUITE 600
DENVER, CO 80231



ENERGY CORPORATION

20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611
FAX 405/552-4550

July 25, 1996

Certified Mail No. Z 737 086 293

MR. DARR ANGELL
P.O. BOX 190
LOVINGTON, NM 88260-0190

RE: Proposed Denton SWD #4
Section 12-T15S-R37E
Lea County, New Mexico

Gentlemen:

Concerning the referenced, enclosed please find a copy of our Application for Authorization to Inject.

Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 235-3611, X4509.

Yours truly,

DEVON ENERGY CORPORATION (NEVADA)

A handwritten signature in cursive script that reads "Candace R. Graham".

Ms. Candace R. Graham
Engineering Tech

/cg
Enclosures

copy: NMOCD, Hobbs
NMOCD, Santa Fe
EB, File



ENERGY CORPORATION

20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611
FAX 405/552-4550

July 25, 1996

Certified Mail No. Z 737 086 294

MARATHON OIL CO.
P.O. BOX 552
MIDLAND, TX 79702

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July 25, 1996

Certified Mail No. Z 737 086 295

FASKEN OIL & RANCH INTERESTS

BARBRA FASKEN

303 W. WALL AVE., STE 1900

MIDLAND, TX 79701-5116

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PHILLIPS PETRO
4001 PEMBROOK
ODESSA, TX 79762

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Telephone 405/235-3611
FAX 405/552-4550

July 25, 1996

Certified Mail No. Z 737 086 297

UMC PETROLEUM CORPORATION

1201 LOUISIANA, STE 1400
HOUSTON, TX 77002-5603

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20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611
FAX 405/552-4550

July 25, 1996

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CODY ENERGY, INC.
7555 E. HAMPDEN AVE., STE 600
DENVER, CO 80231

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Section 12-T15S-R37E
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