

devon

ENERGY CORPORATION

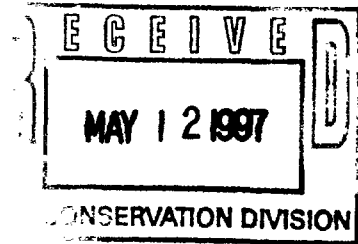
20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

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

~~XXXXXXXXXXXXXXXXXXXX~~
2ND COPY

May 7, 1997

State of New Mexico
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505



RE: Application for Authorization to Inject
Denton SWD #5
Lea County, NM

Dear Sir,

Enclosed are two copies of our Application for Authorization to Inject with the Proof of Notice to offset operators for the Denton SWD #5. The original application was mailed to the Hobbs District office and did not include the Proof of Notice to offset operators.

I have made a couple of calls to the Hobbs office to make sure they forward the original to your office, but the application could not be found. Enclosed is a copy of the Receipt for Certified Mail.

I will forward another copy of the application to the Hobbs office.

Please direct inquiries to me at (405)552-4527.

Sincerely,

Karen Byers

Karen Byers
Engineering Technician

kb

AAI on: Denton SWD #5

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- 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:

State of New Mexico
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 38241-1980

4a. Article Number

P 619 404 383

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

4/28

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

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

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

PS Form 3811, December 1994

Domestic Return Receipt

PS Form

AAI on: Denton SWD #5

5/12/97	6/2/97	BS	KW	SWD
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling
☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☒ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☒ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

E. L. Butross, Jr.
Print or Type Name

E. L. Butross Jr.
Signature

District Engineer
Title

5/11/97
Date

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: DEVON ENERGY CORP. Well: DENTON SWB No 5
Contact: ERNESTO RODRIGUEZ - ENG. Title: ENG. TECH. Phone: 905-552-4509
DATE IN 4-28-97 RELEASE DATE 5-13-97 DATE OUT 5-20-97

Proposed Injection Application is for: WATERFLOOD Expansion Initial

Original Order: R- Secondary Recovery Pressure Maintenance

SENSITIVE AREAS

X **SALT WATER DISPOSAL** Commercial Well

WIPP Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd _____

AREA of REVIEW WELLS

32 Total # of AOR

2 # of Plugged Wells

YES Tabulation Complete

YES Schematics of P & A's

YES Cement Tops Adequate

NO AOR Repair Required

INJECTION FORMATION

Injection Formation(s) PERM Compatible Analysis YES

Source of Water or Injectate AREA PRODUCTION

PROOF of NOTICE

✓ Copy of Legal Notice

✓ Information Printed Correctly

✓ Correct Operators

✓ Copies of Certified Mail Receipts

NO Objection Received

N/A Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	<u>Telephoned</u>	<u>Letter</u>	<u>_____</u> Date	Nature of Discussion <u>_____</u>
2nd Contact:	<u>Telephoned</u>	<u>Letter</u>	<u>_____</u> Date	Nature of Discussion <u>_____</u>
3rd Contact:	<u>Telephoned</u>	<u>Letter</u>	<u>_____</u> Date	Nature of Discussion <u>_____</u>



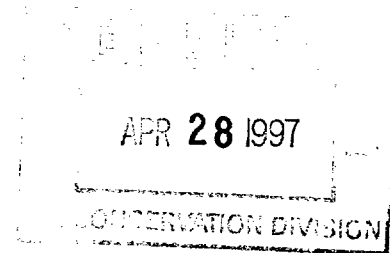
20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone: 405/235-3611
FAX 405/552-4667

April 25, 1997

Re: Application for Authorization to Inject
Denton SWD #5 (formerly State T #1)
Lea County, NM

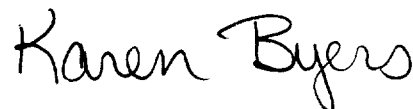
State of New Mexico
Oil Conservation Division
Attn: Ben Stone
2040 S. Pacheco St.
Santa Fe, NM 87505



Enclosed are the original and 1 copy of our Application for Authorization to Inject (Form C-108) for the above referenced well in Lea County. I also sent a copy of this application to the Hobbs district office and the Bureau of Land Management office in Carlsbad. Please direct any inquiries concerning this application to our area district engineer, Ernie Buttross at (405) 552-4509.

Sincerely yours,

Devon Energy Corporation (Nevada)

A handwritten signature in cursive script that reads "Karen Byers".

Karen Byers
Engineering Technician

/kb
Enclosures

cc: OCD - Hobbs District Office
BLM - Carlsbad

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 N. Broadway, Suite 1500, Oklahoma City, OK 73102-8260
Contact party: 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
If yes, give the Division order number authorizing the project Denton SWD #'s 1, 2, 3 & 4
SWD-5, SWD-24, SWD-331, & SWD-639
- 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: 4/25/97
- * 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 certifier 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.

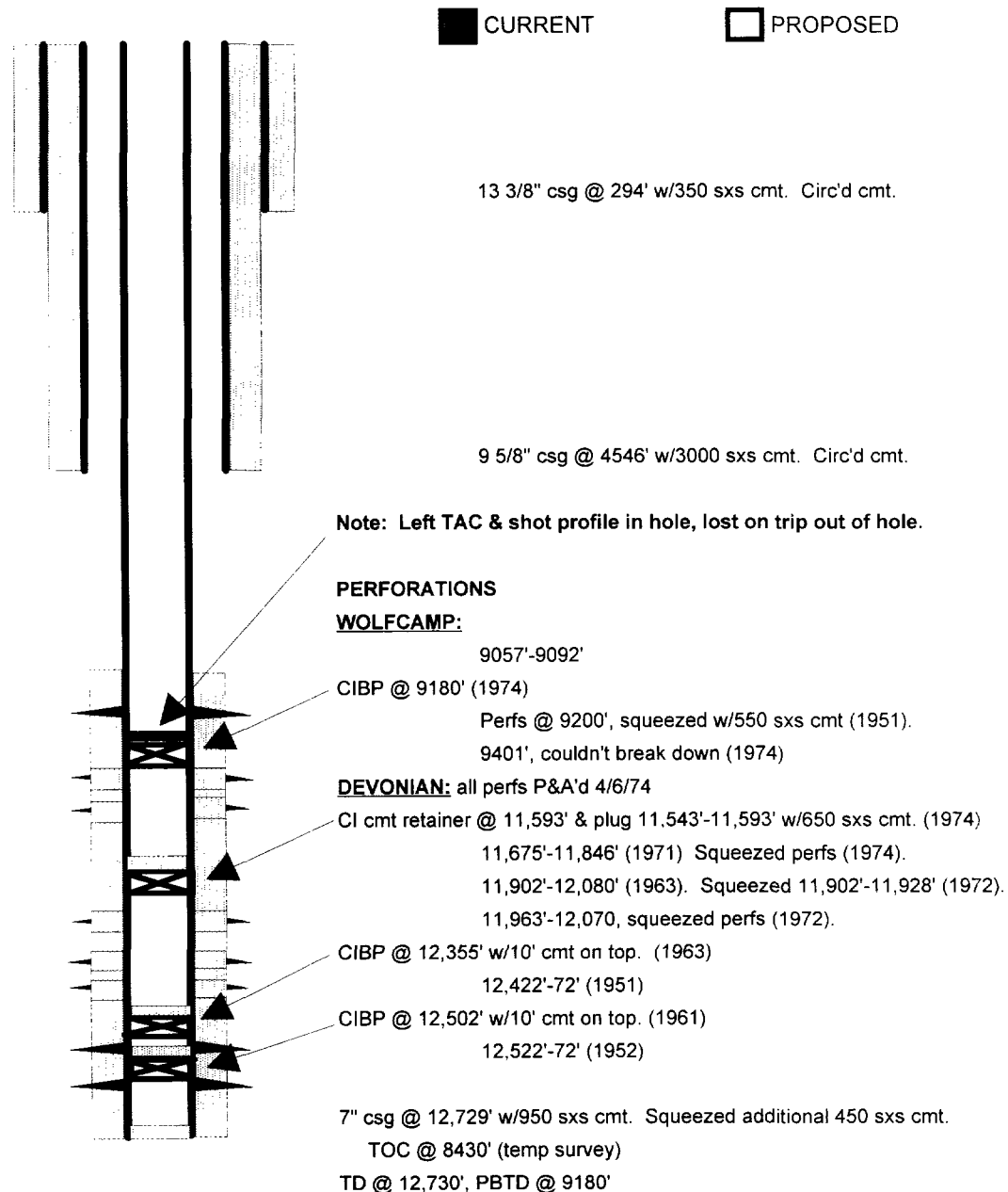
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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 WELLBORE SCHEMATIC

WELL NAME: Denton SWD #5 (formerly State T #1)	FIELD: Denton Wolfcamp	
LOCATION: 660' FSL & 1980' FWL, Sec. 2-15S-37E	COUNTY: Lea County	STATE: NM
ELEVATION: 3798'	SPUD DATE: 1/13/51	COMP DATE: 6/2/51
API #: 30-025-05226	PREPARED BY: Karen Byers	DATE: 4/9/97

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0-294'	13 3/8"	48#			17 1/2"
CASING:	0-4596'	9 5/8"	36 & 40#			12 1/4"
CASING:	0-12,729'	7"	23,26,29 & 32#			8 3/4"
TUBING:						
TUBING:						



DEVON ENERGY CORPORATION

APPLICATION FOR AUTHORITY TO INJECT

III Proposed Salt Water Disposal Well Data:

A.

1. DENTON SWD #5 (State T #1)
660' FSL & 1980' FWL
Sec. 2-15S-37E
Lea County, NM
2. Surface Casing: 13 3/8", 48#/ft, set @ 278', cement to surface w/350 sxs.

Intermediate Casing: 9 5/8", 36 & 40#/ft, set @ 4595', cement to surface w/3000 sxs.

Production Casing: 7", 23#, 26#, 29#, & 32#/ft, set @ 12,729'. TOC @ 8430' (temp survey).
3. Total Depth: 12,730'
4. Tubing: 4 1/2" - 11.6#/FT, K-55, w/Tuboscope TK-70 plastic coating
5. Packer: Nickel plated Baker Lockset packer w/on-off tool and profile nipple, set @ 9575'.

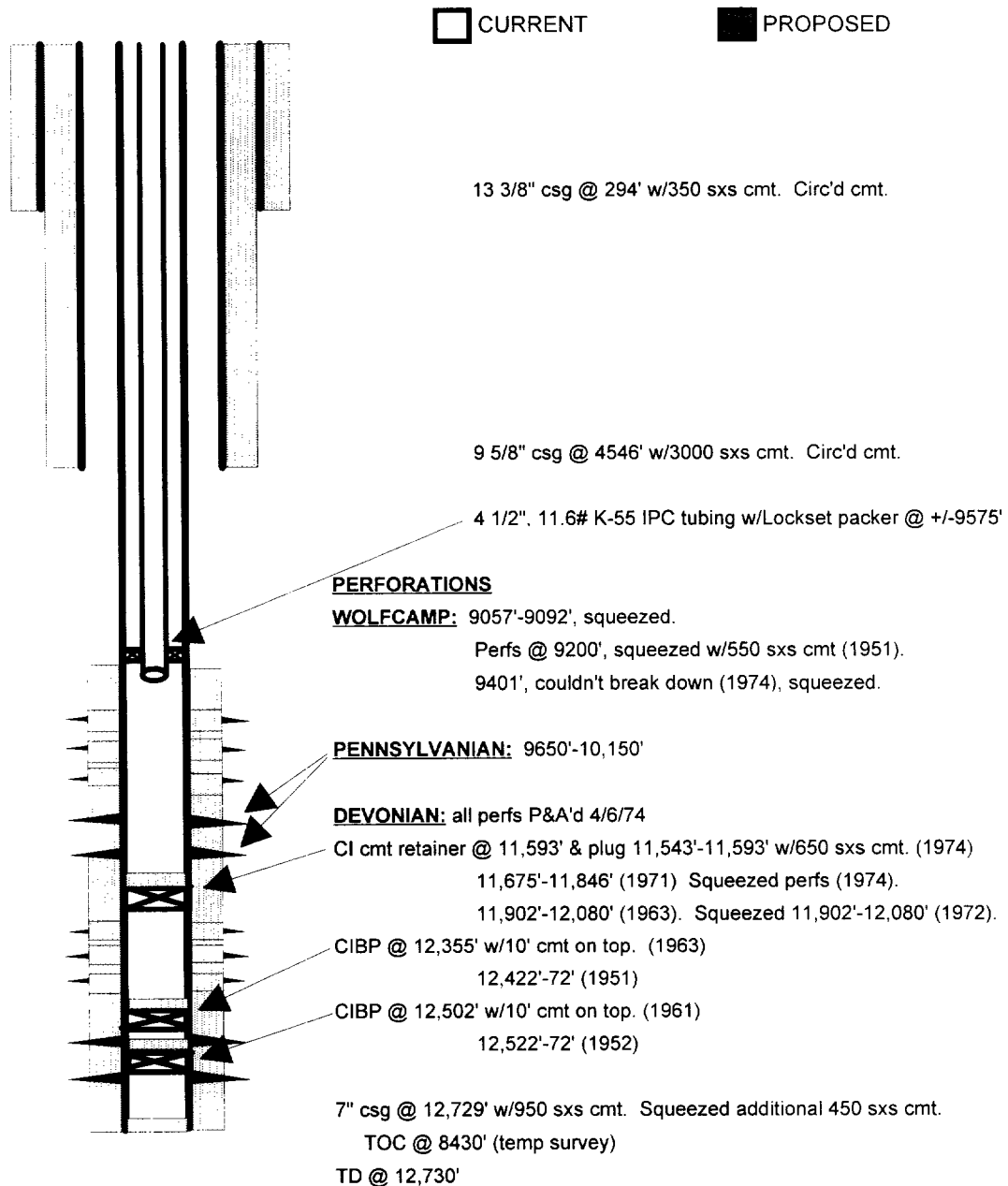
B.

1. Injection formation: Pennsylvanian
Field: Denton
2. Injection interval: Pennsylvanian 9650' - 10,150'
3. Original purpose of well: Devonian Oil Well
4. Other perms: Wolfcamp: 9200' (squeezed), 9057'-9092', & 9401'
Devonian: 11,675'-12,080' (squeezed) & 12,422'-12,572'
5. Depths & names of higher and lower oil or gas zones:
Wolfcamp - +/- 9045'
Devonian - +/- 11,645'

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: Denton SWD #5 (formerly State T #1)	FIELD: Denton Wolfcamp	
LOCATION: 660' FSL & 1980' FWL, Sec. 2-15S-37E	COUNTY: Lea County	STATE: NM
ELEVATION: 3798'	SPUD DATE: 1/13/51	COMP DATE: 6/2/51
API #: 30-025-05226	PREPARED BY: Karen Byers	DATE: 4/9/97

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0-294'	13 3/8"	48#			17 1/2"
CASING:	0-4596'	9 5/8"	36 & 40#			12 1/4"
CASING:	0-12,729'	7"	23,26,29 & 32#			8 3/4"
TUBING:						
TUBING:						



ATTACHMENT VI

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/PBTD	COMPLETION RECORD
Denton #1 (Faskin)	1980' FNL & 1988' FWL Sec. 11-15S-37E Lea County, NM	9/23/50	4/1/51	Oil	12,623/12,584'	13 3/8" csg @ 338' w/350 sxs cmt. Est. TOC @ surface (calc).
						8 5/8" csg @ 4746' w/3700 sxs cmt. Circ'd cmt.
						5 1/2" csg @ 12,621' w/1648 sxs. Circ'd cmt to surf.
						Perf'd 12,400-12,500 w/6 SPF.
						Plugged back w/CIBP @ 12,246'.
Denton #3A (Faskin)	659' FNL & 1987' FEL Sec. 11-15S-37E Lea County, NM	4/12/51	12/18/51	Oil	12,623/12,246'	Perf'd 12,002'-12,042' w/80 holes.
						Perf'd 11,452'-11,550' w/96 holes.
						Perf'd 11,585'-11,632' w/100 holes.
						Perf'd 11,954'-11,964' w/10 holes.
						Prod pkrs @ 12,300 & 12,345'.
Denton #6 (Faskin)	659' FNL & 1987' FWL Sec. 11-15S-37E Lea County, NM	12/21/51	6/6/52	Oil	12,800/12,796'	13 3/8" csg @ 338' w/350 sxs cmt. Circ'd cmt to surf.
						8 5/8" csg @ 4643' w/3600 sxs cmt. Est. TOC @ surface (calc).
						Cmt squeezed formation 9770'-9960' w/2225 sxs cmt in various stages.
						5 1/2" csg @ 12,797' w/990 sxs cmt. TOC (temp svy) @ 3700'.
						Perf'd 12,781'-12,795' w/4 SPF. Perf'd 12,716'-12,766' w/200 1/2" holes.
Denton #6 (Faskin)	659' FNL & 1987' FWL Sec. 11-15S-37E Lea County, NM	12/21/51	6/6/52	Oil	12,800/11,797'	Plugged back to 11,797'.
						Perf'd 11,700'-11,740'.
						13 3/8" csg @ 349' w/450 sxs cmt. Circ'd cmt.
						8 5/8" csg @ 4650' w/1725 sxs cmt. Circ'd cmt.
Denton #6 (Faskin)	659' FNL & 1987' FWL Sec. 11-15S-37E Lea County, NM	12/21/51	6/6/52	Oil		5 1/2" csg @ 12,695' w/1435 sxs cmt. Est. TOC @ 4495' (calc).
						Perf'd 12,500-12,600 w/600 holes.
						Plugged back w/60 sxs @ 12,470'-12,390' & w/10 sxs @ 12,390'-12,340'.
						Perf'd 12,200'-12,240'.
						Perf'd 12,085'-12,110' & 12,130'-12,140'.
Denton #6 (Faskin)	659' FNL & 1987' FWL Sec. 11-15S-37E Lea County, NM	12/21/51	6/6/52	Oil		Perf'd 11,818'-11,837' w/38 holes.

ATTACHMENT VI

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/PBTD	COMPLETION RECORD
Denton #6 (con't)					12,700'/11,900'	Set plug (RBP) @ 11,900'. Perf'd 11,559'-11,796' w/99 holes.
					12,700'/11,805'	Set plug (RBP) @ 11,805'.
					12,700'/12,170'	Pulled RBP @ 11,805' & cut bull plug & mandril on RBP @ 11,900'.
Denton #8 (Faskin)	1981' FNL & 2087' FWL Sec. 11-15S-37E Lea County, NM	12/13/51	4/3/52	Oil	9698'	13 3/8" csg @ 352' w/350 sxs cmt. Circ'd cmt. 8 5/8" csg @ 4638' w/2100 sxs cmt. Circ'd cmt to surf. 5 1/2" csg @ 9653' w/932 sxs cmt. TOC (temp svy) @ 2250'. Squeezed open hole 9653'-9698' w/30 sxs cmt. Top of cmt @ 9650'. Squeezed 9630'-9650' w/20 sxs cmt. Top of cmt @ 9590'. Perf'd 9550'-9580' w/180 - 1/2" holes.
					9698'/9535'	Set CI cmt retainer @ 9540'. Squeezed 30 sxs thru perfs 9550'-9580' & 5' cmt on top of plug. Perf'd 9500'-9530'. Perf'd 9250'-9500'. Perf'd 9056'-9210' w/684 - 1/2" holes.
Denton #9 (Faskin)	660' FNL & 990' FEL Sec. 11-15S-37E Lea County, NM	11/30/51	5/19/52	Oil	12,780'/12,774'	13 3/8" csg @ 350' w/350 sxs cmt. Circ'd cmt to surface. 8 5/8" csg @ 4655' w/2400 sxs cmt. Circ'd cmt. Spotted cmt plugs 9125'-11,000' (lost circ) w/875 sxs cmt. Drilled out.
						5 1/2" csg @ 12,775' w/1160 sxs cmt. TOC (temp svy) @ 920'. Perf'd 12,745'-12,770' w/150 holes. Perf'd 12,630'-12,745' w/690 holes. Perf'd 12,480'-12,580' w/600 - 1/2" holes. Perf'd 12,105'-12,342'. Plugged back to 12,403'.
					12,780'/12,774'	
					12,780'/12,403'	

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/PBTD	COMPLETION RECORD
Denton #11 (Phillips)	659' FNL & 1837' FEL Sec. 11-15S-37E Lea County, NM	1/20/52	4/30/52	Oil	9551'/9463'	13 3/8" csg @ 352' w/350 sxs cmt. Circ'd cmt to surface. 8 5/8" csg @ 4649' w/2600 sxs cmt. Circ'd cmt to surface. 5 1/2" csg @ 9552' w/650 sxs cmt. TOC (temp svy) @ 4250' Perf'd 9478'-9530' w/312 holes. Squeezed perfs w/30 sxs cmt. Perf'd 9415'-9458' w/258 holes. Perf'd 9090'-9285'.
Denton #13 (Faskin)	660' FNL & 762' FWL Sec. 11-15S-37E Lea County, NM	6/4/52	11/16/52	Oil	12,750'/12,745'	13 3/8" csg in 17 1/2" hole @ 351' w/350 sxs cmt. Est. TOC surf (calc). 8 5/8" csg in 11" hole @ 4652' w/1550 sxs cmt. Est. TOC @ 934' (calc). 5 1/2" csg @ 12,746' w/1525 sxs cmt. Est TOC @ 4031' (calc). Perf'd 12,700'-12,730' w/180 holes. Perf'd 12,580'-12,670' w/540 holes. Perf'd 12,430'-12,530' w/6 - 1/2" jet holes/ft. Perf'd 12,186'-12,242 & 12,336'-12,390 w/440 jet holes.
Denton #14 (Phillips)	659' FNL & 2162' FWL Sec. 11-15S-37E Lea County, NM	5/20/52	9/24/52	Oil	9550'	13 3/8" csg @ 350' w/350 sxs cmt. Est TOC @ surface (calc). 8 5/8" csg @ 4647' w/3150 sxs cmt. Est. TOC @ surface (calc). 5 1/2" csg @ 9545' w/725 sxs cmt. Est TOC @ 5402' (calc). Perf'd 9035'-9356'.
Denton #15 (Faskin)	660' FNL & 662' FWL Sec. 11-15S-37E Lea County, NM	8/19/53	10/19/53	Oil	9600'/9565'	13 3/8" csg in 17 1/2" hole @ 367' w/300 sxs cmt. Est. TOC @ surf. 8 5/8" csg in 11" hole @ 4651' w/1900 sxs cmt. Est TOC @ surface. 5 1/2" csg in 7 7/8" hole @ 9600' w/800 sxs cmt. Est TOC 5028' (calc). Perf'd 9400'-9430'. Perf'd 9290'-9400' w/4 SPF. Perf'd 9150'-9260' w/4 SPF.

ATTACHMENT VI

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/BID	COMPLETION RECORD
Lea G State #1	1980' FSL & 1980' FEL Sec. 2-15S-17E Lea County, NM	5/5/51	11/11/51	Oil	12,835'	13 3/8" csg @ 369' w/350 sxs cmt. Est. TOC @ surface (calc). 9 5/8" csg @ 4695' w/3000 sxs cmt. Est. TOC @ surface (calc). 7" csg @ 12,831' w/635 sxs cmt. Est. TOC @ 8649' (calc). Perfd 12,430'-12,725'. Added perfs 11,904'-12,086'. Added perfs 9108'-9171'. CIBP @ 9050 + 35' cmt. Plugs @ 8300', 6250', 6000', 4100', 2315' 400', surface.
Lea G State #2	660' FSL & 1980' FEL Sec. 2-15S-37E Lea County, NM	7/24/51	2/11/52	Oil	12190'	13 3/8" csg @ 368' w/350 sxs cmt. Est. TOC @ surface (calc). 9 5/8" csg @ 4701' w/2000 sxs cmt. Est. TOC @ surface (calc). 7" csg @ 11,899' w/440 sxs cmt. Est. TOC @ 9001' (calc). Perfd 11,899'-12,085'. Added perfs 11,760'-11,846'.
Lea G State #3	1980' FSL & 990' FEL Sec. 2-15S-37E Lea County, NM	11/18/51	6/5/52	Oil	12743'	13 3/8" csg @ 361' w/350 sxs cmt. Est. TOC @ surface (calc). 9 5/8" csg @ 4685' w/2000 sxs cmt. Est. TOC @ surface (calc). 7" csg @ 12,595' w/1050 sxs cmt. Est. TOC @ 5680' (calc). Perfd 12,160'-12,480'.
Lea G State #4	660' FSL & 660' FEL Sec. 2-15S-37E Lea County, NM	6/11/52	12/7/52	Oil	12600'	13 3/8" csg @ 359' w/400 sxs cmt. Est. TOC @ surface (calc). 9 5/8" csg @ 4685' w/1800 sxs cmt. Est. TOC @ surface (calc). 5 1/2" csg @ 12,599' w/805 sxs cmt. Est. TOC @ 7999' (calc). Perfd 12,380'-12,590'.

ATTACHMENT VI

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/PBTD	COMPLETION RECORD
Lea G State #6	2310' FSL & 2310' FEL	11/25/52	1/19/52	Oil	9208'	13 3/8" csg @ 330' w/400 sxs cmt. Est. TOC @ surface (calc).
	Sec. 2-15S-37E					9 5/8" csg @ 4649' w/2000 sxs cmt. Est. TOC @ surface (calc).
	Lea County, NM					7" csg @ 9207' w/380 sxs cmt. Est. TOC @ 6704' (calc).
						Perfd 9050'-9150'.
						Added perfs 9050'-9185'.
Lea G State #7			1/23/57	Oil	9208'	Deepened. Open hole interval 9208'-9250'
			4/10/58	Oil	9250'	
			10/8/70	P&A		Shot off 7" csg @ 7285' Plugs @ 7285', 6200', 4700'. Shot off
						9 5/8" csg @ 1040' Plugs @ 1040', 380' & surface.
Lea G State #8	660' FSL & 990' FEL	12/10/52	2/10/53	Oil	9445'	13 3/8" csg @ 342' w/400 sxs cmt. Est. TOC @ surface (calc).
	Sec. 2-15S-37E					9 5/8" csg @ 4699' w/1825 sxs cmt. Est. TOC @ surface (calc).
	Lea County, NM					7" csg @ 9445' w/675 sxs cmt. Est. TOC @ 4999' (calc).
						Perfd 9185'-9385'
Lea G State #9	990' FSL & 2310' FEL	1/24/53	3/26/53	Oil	9430'	13 3/8" csg @ 340' w/400 sxs cmt. Est. TOC @ surface (calc).
	Sec. 2-15S-37E					9 5/8" csg @ 4659' w/2800 sxs cmt. Est. TOC @ surface (calc).
	Lea County, NM					7" csg @ 9429' w/500 sxs cmt. Est. TOC @ 6136' (calc).
						Perfd 9125'-9265'.
Mexico F #9	2287' FNL & 990' FWL	5/8/52	7/6/52	Oil	9153'	13 3/8" csg @ 322' w/330 sxs cmt. Est. TOC @ surface (calc).
	Sec. 2-15S-37E					9 5/8" csg @ 4779' w/2100 sxs cmt. Est. TOC @ surface (calc).
	Lea County, NM					5 1/2" csg @ 9153' w/567 sxs cmt. Est. TOC @ 5913' (calc).
						Perfd 9052'-9086'.
Pacific Royalty #1	330' FNL & 300' FEL	12/30/52	4/27/53	Oil	12,635'	13 3/8" csg @ 350' w/350 sxs cmt. Est. TOC @ surface (calc).
	Sec. 10-15S-37E					8 5/8" @ 4812' w/2500 sxs cmt. Est. TOC @ surface (calc).
	Lea County, NM					5 1/2" @ 12,353' w/500 sxs cmt. Est. TOC @ 9495' (calc).
						Open hole interval 12,353'-12,635'

ATTACHMENT VI

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/PBTD	COMPLETION RECORD
Pacific Royalty #3	430' FNL & 330' FEL Sec. 10-15S-37E Lea County, NM	7/24/53	9/6/53	Oil	9350'	13 3/8" csg @ 376' w/350 sxs cmt. Est. TOC @ surface (calc).
						8 5/8" csg @ 4805' w/2400 sxs cmt. Est. TOC @ surface (calc).
						5 1/2" csg @ 9349' w/350 sxs cmt. Est. TOC @ 7349' (calc).
						Perf'd 9170'-9337'.
State A #1	1980' FNL & 660' FWL Sec. 2-15S-37E Lea County, NM	8/22/51	2/1/52	Oil	12,682'	13 3/8" csg @ 356 w/300 sxs cmt. Est. TOC @ surface (calc).
						8 5/8" csg @ 4680' w/3500 sxs cmt. Est. TOC @ surface (calc).
						5 1/2" csg @ 12,500' w/750 sxs cmt. Est TOC @ 8214' (calc).
						Open hole interval 12,500'-12,615'
						Added perfs 11,984'-12,332'
						Added perfs 11,814'-11,940'
State A #2	2310' FSL & 721' FWL Sec. 2-15S-37E Lea County, NM	8/12/52	10/3/52	Oil	9302'	13 3/8" csg @ 355' w/325 sxs cmt. Est. TOC @ surface (calc).
						8 5/8" csg @ 4682' w/3000 sxs cmt. Est. TOC @ surface (calc).
						5 1/2" liner 4485'-9300' w/850 sxs cmt. Est. TOC @ 4442' (calc).
						Perf'd 9038'-9236'.
State T #2	1980' FNL & 1980' FWL Sec. 2-15S-37E Lea County, NM	3/17/51	1/15/52	Oil	12,726'/12,650'	13 3/8" csg @ 320' w/375 sxs cmt. Est. TOC @ surface (calc).
						9 5/8" csg @ 4690' w/2500 sxs cmt. Est. TOC @ surface (calc).
						7" csg @ 10,580' w/750 sxs cmt. TOC @ 6668' (Temp survey)
						5" liner 10,198'-12,713' w/210 sxs cmt. Est. TOC - top of liner (calc).
						Perf'd 12,585'-12,640' & 12,484'-12,528'.
						Perf'd 12,120'-12,170' & 12,200'-12,270'.
						Plugged back w/CIBP @ 12,190' & 12' cmt on top
						Squeezed perfs 12,120'-12,170'. Perf'd 12,042'-12,074'.
						squeezed perfs. Perf'd 12,045'-12,060'.
						Set CIBP @ 12,000'.
						Perf'd 11,940'-11,972'.
						Repaired 7" csg leak @ 7309' w/750 sxs cmt. Repaired surf csg leak 13 3/8" x 9 5/8" annulus by pumping 100 sxs cmt.

ATTACHMENT VI

[illegible]

ATTACHMENT VI

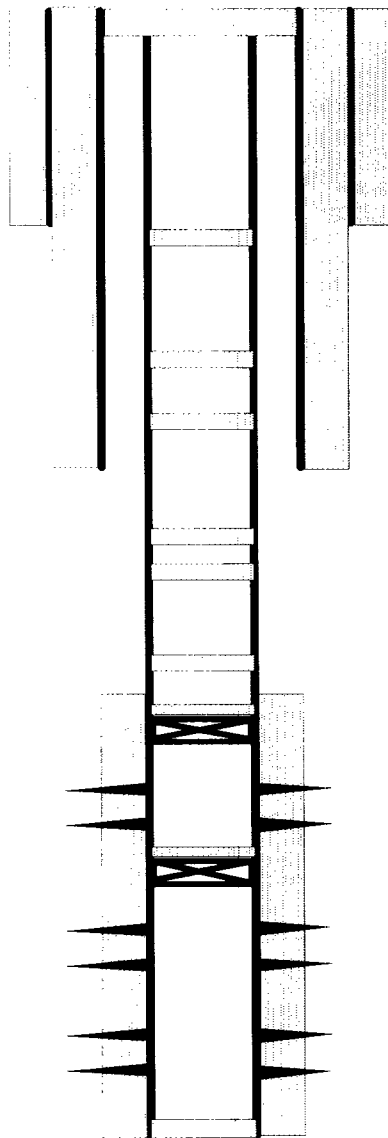
WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/PBTD	COMPLETION RECORD
State T #5	2115' FSL & 2046' FWL Sec. 2-15S-37E Lea County, NM	11/7/52	3/10/53	Oil	9250'/9220'	9 5/8" csg @ 2095' w/1300 sxs cmt. Circ'd cmt.
						7 5/8" csg @ 7186' w/1200 sxs cmt. TOC @ 3140'.
						5 1/2" liner @ 7012'-9247' w/150 sxs cmt. Est. TOC top of liner (calc)
						Perf'd 9126'-9178'.
State T #6	2310' FNL & 2310' FWL Sec. 2-15S-37E Lea County, NM	9/4/52	11/6/52	Oil	9550'/9487'	Knocked Baker 415-B pkr to 9217', recovered very little of pkr.
						Perf'd 9018'-9093'
						13 3/8" csg @ 360' w/400 sxs cmt. Circ'd cmt.
						9 5/8" csg @ 4654' w/3000 sxs cmt. Est. TOC @ surface (calc).
State T #7	990' FSL & 2310' FWL Sec. 2-15S-37E Lea County, NM	11/19/52	3/2/53	Oil		7" csg @ 9536' w/650 sxs cmt. Est. TOC @ 5255' (calc).
						Perf'd 8948'-8994'.
					9231'/9226'	9 5/8" csg @ 2110' w/1300 sxs cmt. Circ'd cmt.
						7" csg @ 9231' w/1600 sxs cmt. TOC @ 3030' (temp survey).
State T #8	990' FSL & 990' FWL Sec. 2-15S-37E Lea County, NM	11/24/52	2/25/53	Oil		Perf'd 9064'-9124'.
					12,420'/12,376'	Set cmt retainer @ 8870' & squeezed perfs 9064'-9124' w/150 sxs cmt. Drl'd out cmt retainer & cmt to 9131'. Drl'd to new TD of 12,420'. 4 1/2" liner @ 8985'-12,418' w/375 sxs cmt.
						Perf'd 12,333'-12,366' & 12,216'-12,275'.
						Squeezed 9 5/8" x 7" annulus w/720 f/250'-2079'. TOC @ 250' temp svy). Squeezed 9 5/8" x 7" annulus w/545 sxs cmt.
State T #8	990' FSL & 990' FWL Sec. 2-15S-37E Lea County, NM	11/24/52	2/25/53	Oil		9 5/8" x 7" annulus full of cmt. Resqueezed @ 2170' w/150 sxs cmt. Drl'd cmt & retainer.
						RBP @ 12,308'. Perf'd 11,993'-12,034'.
						Perf'd 11,955'-11,981'.
					9295'/9270'	9 5/8" csg @ 2161' w/1100 sxs cmt. Circ'd cmt.
State T #8	990' FSL & 990' FWL Sec. 2-15S-37E Lea County, NM	11/24/52	2/25/53	Oil		7" csg @ 9287' w/1550 sxs cmt. TOC @ 3830' (temp survey).
						Perf'd 9020'-9180'.

[illegible]

P&A WELLBORE SCHEMATIC

WELL NAME: Lea "G" State #1	FIELD: Denton
LOCATION: 1980' FSL & 1980' FEL, Sec. 2-15S-37E	COUNTY: Lea County STATE: NM
ELEVATION: 3812' GL	SPUD DATE: 5/5/51 COMP DATE: 11/11/51
API #: 30-025-05238	PREPARED BY: Karen Byers DATE: 4/11/97

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0-369'	13 3/8"	48#		8rd	17 1/4"
CASING:	0-4695'	9 5/8"	40 & 36#		8rd	12 1/4"
CASING:	0-12,831'	7"	32, 29, & 26#		8rd	8 3/4"
TUBING:						
TUBING:						



☒ CURRENT ☐ PROPOSED

OPERATOR: CHEVRON USA, INC.

13 3/8" csg @ 369' w/350 sx cmt. Est TOC @ surface.

9 5/8" csg @ 4695' w/2000 sx cmt. Est TOC @ surface.

Cmt plugs: 100' surface plug
 40 sx @ 400'
 40 sx @ 2315'
 100' plug 4000'-4100'
 25 sx @ 6000'
 25 sx @ 6250'
 30 sx @ 8300'

CIBP @ 11,030' w/35' cmt on top.

CIBP @ 9050' w/35' cmt on top.

Perforations:
 Devonian 12,430'-12,725'
 11,904'-12,086'

Wolfcamp 9108'-9171'

7" csg @ 12,831' w/635 sx cmt. Est TOC @ 8649'.

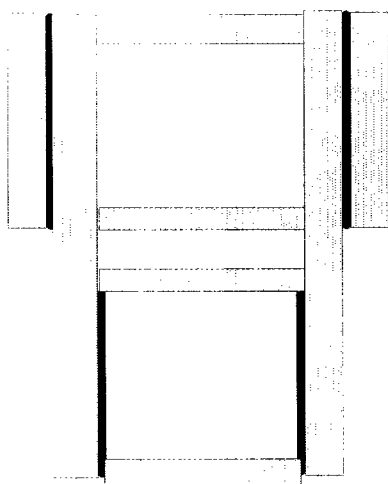
TD @ 12,835'

Estimated TOC was determined by using @ 1.32 cf/sk yield & 75% fill up

P&A WELLBORE SCHEMATIC

WELL NAME: Lea "G" State #6	FIELD: Denton
LOCATION: 2310' FSL & 2310' FWL, Sec. 2-15S-37E	COUNTY: Lea County STATE: NM
ELEVATION: 3809' GL	SPUD DATE: 11/25/52 COMP DATE: 1/18/52
API #: 30-025-05235	PREPARED BY: Karen Byers DATE: 4/11/97

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0-330'	13 3/8"	48#			17 1/4"
CASING:	0-4649'	9 5/8"	36#			12 1/4"
CASING:	0-9207'	7"	23 & 26#			8 3/4"
TUBING:						
TUBING:						



☒ CURRENT

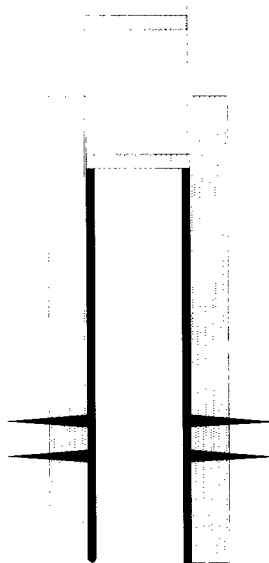
☐ PROPOSED

OPERATOR: CHEVRON USA, INC.

13 3/8" csg @ 330' w/400 sx cmt. Est. TOC @ surface.

9 5/8" csg @ 4649' w/2060 sx cmt. Est TOC @ surface.
Shot off & pulled csg from 1040'.

Cmt plugs: 37 sx plug @ surface.
72 sx plug from 380'-280' (base of 13 3/8")
25 sx @ stub @ 1040'.
36 sx from 4700'-4600' (base of 9 5/8" csg)
25 sx @ 6200'
25 sx @ stub @ 7285'



Perforations:

Wolfcamp 9050'-9150' squeezed w/100 sx cmt.
Open hole 9229'-9250'

7" csg @ 9207' w/380 sx cmt. Est TOC @ 6704'
Shot off & pulled 7" csg out of hole from 7285'.

TD @ 9250'

Estimated TOC was determined using 1.32 cf/sk yield & 75% fill up.

VII Proposed Operation Data:

- (1) Average daily injection rates - 8,000 BWPD
Maximum daily injection rates - 10,000 BWPD
- (2) Type of injection system - closed system
- (3) Average injection pressure - 1000 psig
Maximum injection pressures - 1500 psig
- (4) Injection water will be 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

- (5) Disposal zone water analysis is not available

VIII Geological Data:

Geological Name: Pennsylvanian

Lithological Detail: Limestone/Dolomite

Formation Top: 9515'

Thickness: 1135'

Geological Data of Drinking Water Zone: None

IX Stimulation Program:

The proposed injection interval will be acidized with 15% NEFE acid prior to initial injection.

X Well Logs:

Copies of current well logs are on file with Oil Conservation Division.

XI Chemical Analysis of Fresh Water:

There are no known producing fresh water wells within one mile of a proposed injection well.

XII Affirmative Statement of Open Faults:

Upon examination of the available geologic and engineering data, no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water was found.

XIII “Proof of Notice” and “Proof of Publication”:

The State of New Mexico the surface owner. Darr Angell leases the surface rights from the state. Mr. Angell has been notified by letter with a copy of our application. Proof of notice to follow.

Offset operators in the “area of review” are as follows:

Operator	Well Name	Unit Letter	Location S-T-R
Barbara Fasken	Denton #01	F	Sec. 11-15S-37E
Barbara Fasken	Denton #03Y	B	Sec. 11-15S-37E
Barbara Fasken	Denton #06	C	Sec. 11-15S-37E
Barbara Fasken	Denton #08	F	Sec. 11-15S-37E
Barbara Fasken	Denton #09	A	Sec. 11-15S-37E
Barbara Fasken	Denton #13	D	Sec. 11-15S-37E
Barbara Fasken	Denton #15	D	Sec. 11-15S-37E
Chevron USA Inc.	Lea G State #1	J	Sec. 2-15S-37E
Chevron USA Inc.	Lea G State #6	J	Sec. 2-15S-37E
Devon Energy Corp.	State T #2	F	Sec. 2-15S-37E
Devon Energy Corp.	State T #3	K	Sec. 2-15S-37E
Devon Energy Corp.	State T #4	M	Sec. 2-15S-37E
Devon Energy Corp.	State T #5	K	Sec. 2-15S-37E
Devon Energy Corp.	State T #6	F	Sec. 2-15S-37E
Devon Energy Corp.	State T #7	N	Sec. 2-15S-37E
Devon Energy Corp.	State T #8	M	Sec. 2-15S-37E
Devon Energy Corp.	State T #9	N	Sec. 2-15S-37E
Phillips Petroleum	Denton #11	B	Sec. 11-15S-37E
Phillips Petroleum	Denton #14	C	Sec. 11-15S-37E
Polaris Prod Corp.	Pacific Royalty Co. #1	A	Sec. 10-15S-37E
Polaris Prod Corp.	Pacific Royalty Co. #3	A	Sec. 10-15S-37E
Polaris Prod Corp.	State A #1	L	Sec. 2-15S-37E
Polaris Prod Corp.	State A #2	L	Sec. 2-15S-37E
Texaco E&P	Mexico F #9	E	Sec. 2-15S-37E
UMC Petroleum	W. A. Simpson, et al #2	P	Sec. 3-15S-37E
UMC Petroleum	W. A. Simpson, et al #5	P	Sec. 3-15S-37E
UMC Petroleum Corp.	Lea G State #2	O	Sec. 2-15S-37E
UMC Petroleum Corp.	Lea G State #3	I	Sec. 2-15S-37E
UMC Petroleum Corp.	Lea G State #4	P	Sec. 2-15S-37E
UMC Petroleum Corp.	Lea G State #7	P	Sec. 2-15S-37E
UMC Petroleum Corp.	Lea G State #8	O	Sec. 2-15S-37E

Each of the previous operators were provided a letter by certified mail. Proof of notice to follow.

“Proof of Publication” from the Hobbs Daily News-Sun is attached.

ATTACHMENT XIII, NOTICE

DEVON ENERGY CORPORATION

DENTON SWD #5 (STATE "T" #1)
660' FSL & 1980' FWL
SECTION 2-15S-37E
LEA COUNTY, NEW MEXICO

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

SURFACE OWNER: STATE OF NEW MEXICO

SURFACE RIGHTS LEASED TO: MR. DARR ANGELL
P. O. BOX 190
LOVINGTON, NM

OFFSET OPERATORS: 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

CHEVRON USA, INC.
935 GRAVIER ST.
NEW ORLEANS, LA 70112-1625

TEXACO EXPLORATION & PRODUCTION
4601 DTC BLVD.
DENVER, CO 80237-2549

POLARIS PRODUCTION CORPORATION
P. O. BOX 1749
MIDLAND, TX 79702-1749

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

April 17 1997

and ending with the issue dated

April 17 1997



Publisher

Sworn and subscribed to before

me this 17th day of

April 1997



Notary Public.

My Commision expires
October 18, 2000
(Seal)

LEGAL NOTICE
April 17, 1997
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 ap-
proval and authority to inject
salt water into the State "T" #1
(Denton SWD #5), located
660' FSL & 1980' FWL, Sec-
tion 2-15S-37E, Lea County,
New Mexico.

The purpose of the water in-
jection well is to dispose of
saltwater produced from the
Denton Wolfcamp and Denton
Devonian fields ad currently
designated by the Oil Conser-
vation Division and as many
as may be extended by addi-
tional drilling.

Water will be injected into
the Pennsylvanian formation
at an interval between 9650'
and 10,150'. The maximum
injection rate and pressure
are expected to be 10,000
BWPD and 1500 psi, respect-
fully.

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: Ernie Buttross
District Engineer
Devon Energy Corporation
(Nevada)
20 N. Broadway, Suite 1500
Oklahoma City, OK 73102
(405) 552-4509
#15160

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.

03100039000 03500014
Devon Energy Corporation (Neva
20 N. Braodway, Suite 1500
434005
Oklahoma City, OK 73102