

### **Amoco Production Company**

Post Office Box 68 Hobbs, New Mexico 88240

L. R. Smith District Manager

July 17, 1985

File: LRS-1408-WF

Re:

Application for Salt Water Disposal

North Baum Salt Water Disposal Well No. 1

Lea County, New Mexico

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attention: Mr. Gilbert Quintana

Reference is made to our letter of September 10, 1984, File: LRS-1933-WF, requesting approval to convert our Wallaby "WZ" State Com No. 1 (now the North Baum SWDS No. 1) to a salt water disposal well. Administrative approval was granted October 15, 1984, under NMOCD Order No. SWD-280, to dispose of produced water into the Cisco formation.

Amoco Production Company hereby makes application for administrative approval to drill the captioned well out to the Devonian formation in an effort to improve injectivity. Form C-108 and the necessary documentation is attached. Your prompt consideration of this application will be appreciated.

As required, each party listed on the attached service list has been turnished a copy of this application by certified mail complete with all attachments.

If additional information is needed, contact Nevin Gates (505) 393-1781.

NLG/bf APRD03-VV

L. R. Smith is an

Attachments

July 17, 1985 File: LRS-1408-WF Page 2

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, NM 87501

Read & Stevens P. O. Box 1518 Roswell, NM 88201

Yates Petroleum Company 207 South Fourth Artesia, NM 88201

M. L. Brown 200 Sutton Place Bldg. Wichita, KS 67202

Tenneco Oil Company 6800 Park Ten Blvd., Suite 200 North San Antonio, TX 78213

### SERVICE LIST FOR NORTH BAUM SWDS WELL NO. 1

### Leasehold operator within 1/2 mile of proposed injection well

Yates Petroleum Corporation 207 South Fourth Street Artesia, NM 88201

Read & Stevens P. O. Box 1518 Roswell, Nm 88201

M. L. Brown 200 Sutton Place Bldg. Wichita, KS 67202

Tenneco Oil Company 6800 Park Ten Blvd., Suite 200 North San Antonio, TX 78213

### Surface Owner

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, NM 87501

\* V

of the earlier submittal.

### **UIL CUNSERVATION DIVISION** POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

FORM C-108 Revised 7-1-81

APPL	ICATION	FOR	AUTHORIZATION	TO	INDECT

PPLIC	ATION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X yes no
II.	Operator:Amoco Production Company
	Address: P. O. Box 68, Hobbs, New Mexico 88240
	Contact party: J. M. Breeden, Jr. Phone: (505) 393-1781
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? X yes no If yes, give the Division order number authorizing the project <u>SWD-280</u> .
٧.	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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>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.).</li> </ol>
111.	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.
х.	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.
CII.	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.
III.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
αv.	Certification
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Nevin L. Gates Title Administrative Analyst
	Signature: Date: 17 July 1985

No. 1 (now the North Baum SWDS Well No. 1) was converted to disposal.

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

Submitted September 10, 1974 when the Wallaby "W7" State Com

#### 111. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- 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 zon∈ 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.

# ITEM NO. 3 INJECTION WELL DATA

	WELL DATA SHEET	1
Amoco Production Company N Operator	Lease	
1 660' FSL x 1980' FWL	18	13-S 33-F
Well No. Footage Location	Section	13-S 33-E Township Range
Schematic	Surface Casing	Tubular Data
(See attached wellbore sketch)	Size <u>13-3/8</u>	" Cemented with <u>450</u> sx
13-3/8" CSA 388'	TOC <u>surface</u>	feet determined by <u>circulation</u>
8-5/8" CSA 4188' 5-1/2" CSA 10,115'	Hole Size <u>17-1/2</u> '	I
4" LSA 9,900-12,900'	Intermediate Casi	<u>ng</u>
	Size <u>8-5/8</u>	Cemented with2185 sx
	TOC surface	feet determined by <u>circulation</u>
	Hole Size <u>11"</u>	
	Long String	
	Size <u>5-1/2</u>	" Cemented with 1200 sx
	TOC 7395	feet determined by temp. survey
	Hole Size 7-7/8	ı
	Liner	
	Size 4	_" Cemented with350 sx
	circ to top	tagging feet determined by <u>liner</u>
	Hole Size <u>4-3/4</u>	1
	Total Depthtop	13,200
	Injection interva	1 12,900' to 13,200' open hole.
Tubing Size <u>2-7/8"</u> 1	ined withplas	stic set in a
Tubing Size 2-7/8" 1:  Baker lock-set (plastic coated)	packer at	(Material) feet
(brand and model) (or describe any other casing-tub		
Other Data		
1. Name of the injection formation	on <u>Devonian</u>	
2. Name of Field or Pool (if app	licable) <u>Baum</u>	
3. Is this a new well drilled for	r injection?	Yes X No
If no, for what purpose was th	ne well originally	drilled? <u>Production of oil</u>
and gas.		
<ol> <li>Has the well ever been perford intervals and give plugging de used. Yes, the Bough A and</li> </ol>	etail (sacks of cem	
cement squeezed w/100 sx Clas	s "H" cmt. In add	ition, the well has been perforated
across the Cisco for use as a	disposal zone. Th	nese perforated intervals will be
	any overlying and/	or underlying oil or gas zones , and C) overlies Devonian.
No underlying oil or gas zone	s are known to exis	st.

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<b>AMOCO</b>

**Amoco Production Company** 

FILE	 	 	

SHEET NO.

ENG	INE	ER	ING	СН	AR1

SUBJECT ABOTH FIRM SUND WELL No. 1 Enm TIEZI

DATE 7-15-55 BY FIA

ROCATION: LLOTSL & 1980 FWI Section 18,7-13-5, P-33-E LEACOUNTY HEW MEYECO.

ELEVATION 4287,3'6L

Completion ANTE

133/6" 545" 7-55 636 CSH 388' CAST W7 450 SX X CIXX 17/2 HOVE

878" 30# 7-55 · CSG CSA YIEZ' CMT272185 Sx x Circ 11"HOLE.

27/8" INTERNALLY CONTED TES PACKER SA 4 9850' (GUIRERSON CHOTEL)

CSH /0115' 2MT w/ 1005x

56" P" N-80 CSG

4" 11.6 \* N-80 FLUSH FORMS LINER TROM 9960'-12200' COST W/ 350 ST CENSE HAVEAT lang 434" HOVE.

7EUFS: 9646-75' -19 Hours )
9812'-16' W/ 1SPF SpORETE 10014-19' W/DEFF (CEMENTED. 10085-90'w/DEHT

TCMT = 7395 VIA TEMP SURVEY.

10075 9970-80, 10006-32/10072-110' W/4SPF BEHND LINER.

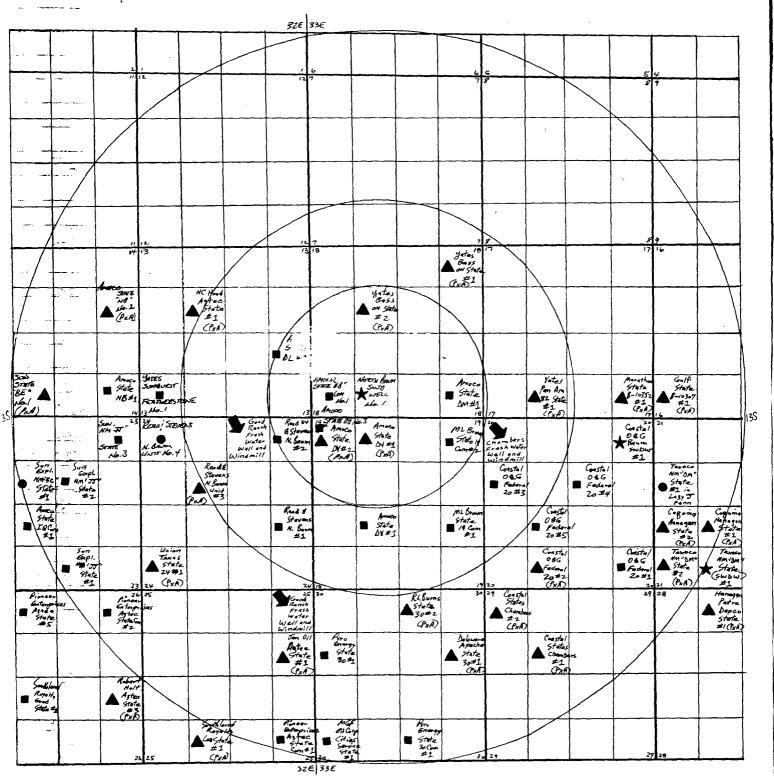
SPEN HELE 12900-13200'

TO: 13200' PUR 12550

# ITEM NO. 5 AREA OF REVIEW AND LEASE OWNERSHIP MAPS

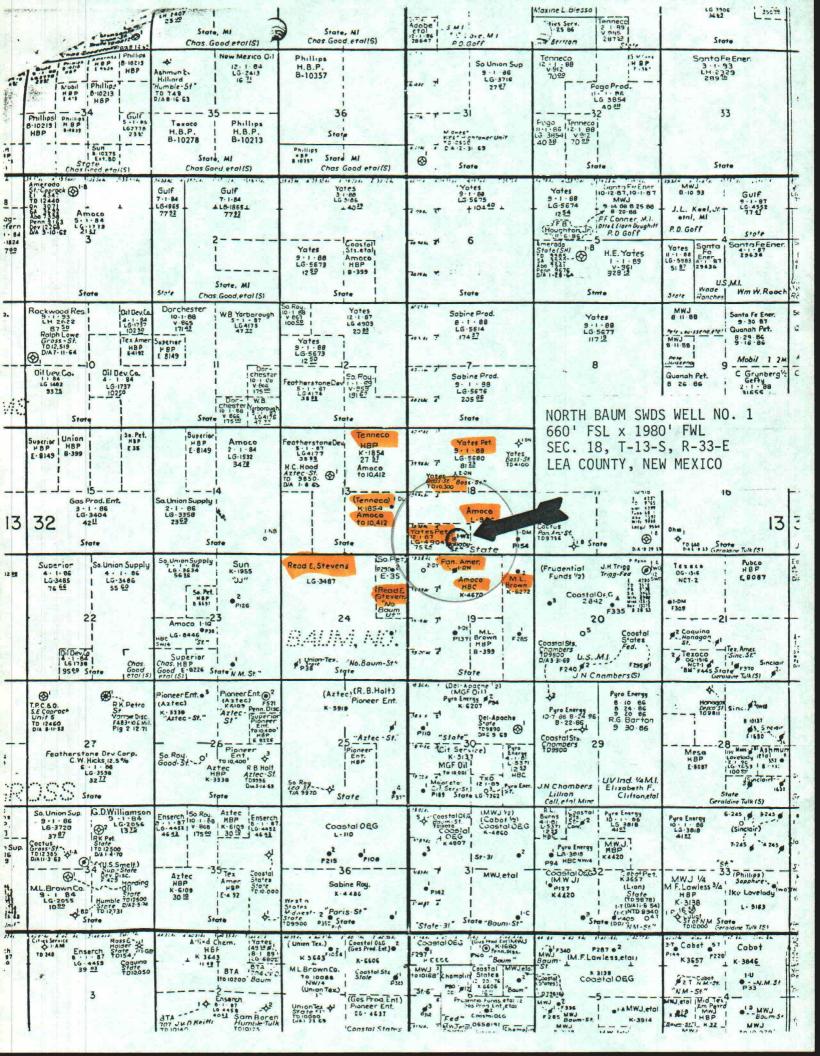
### NORTH BAUM SWD WELL No.1 REVIEW AREA

H.



Legend: Baum Field (upper lann Formation) • Incomplete Well A Plugged and Abandoned \* Disposal Well • Proposed Well • Lazy Jann

Fresh Water Well and Windmill



### ITEM NO. 6

TABULATED WELL DATA FOR WELLS WITHIN AREA OF REVIEW (INFORMATION ON WELLS NOT PREVIOUSLY CONSIDERED OR WELLS WITH A CHANGE IN CIRCUMSTANCE.)

## PERTINENT DATA FOR WELLS WITHIN AREA OF REVIEW

OPERATOR:	Amoco Produ	uction C	Company				<del></del>	·			
WELL NAME:	North Baum	SWD Wel	1 No. 1		······································			<del></del> _	· · · · · · · · · · · · · · · · · · ·		
LOCATION:	660/S x 198	80/W, Un	it N	SEC	18	_ T	13 -	S, R;	<u>33   </u> -E		
ELEVATION:	4287'		GL _			_ DF			KB		
TD: 13,2	00'		PBT[	13,2	200'		<del></del>				
HOLE SIZE	SIZE	<u>WT</u>	CASING DAT DEPTH	A	AMT.	OF C	<u>MT</u>	-	ГОС		
17-1/2" 11 7-7/8"	13-3/8" 8-5/8" 5-1/2"	54.5 32 17	388 4,188 10,115		;			7395 by			
4-3/4"	4"	11.6	12,900'			350	1	temp s top of			
noncontinuo	NTERNAL:\ us. DATE: _2/28/					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
CURRENT STA	TUS: <u>Dispos</u>	sal well	•								
COMMENTS:	Plan to inj	ject int	o the Devoni	an Form	nation	, ope	n hole	e. <u>W</u> il	1		
abandon Cis	co by setting	liner	across perfo	rated i	nterva	als.					
···											

NLG/tjt APRDO2-AA(2)

<sup>\*</sup>  $\underline{\text{Note}}$ : Must attach a wellbore schematic for all PxA wells illustrating details.

### PERTINENT DATA FOR WELLS WITHIN AREA OF REVIEW

OPERATOR: _	Amoco Produc	tion Compa	ny	· · · · · · · · · · · · · · · · · · ·	
WELL NAME:	State "DY" N	lo. 2	·		·
LOCATION:	660/n x 660/w	ı, Unit D	SEC.	<u>19</u> T- <u>13</u> -S,	R- <u>33</u> -E
ELEVATION:	4296.5	GL _	4313.5	DF 4314.5	KB
TD: 9,991			PBTD _	9,908	_
		CASI	NG DATA		
HOLE SIZE	SIZE	<u>WT</u>	DEPTH	AMT. OF CMT	TOC
17-1/2	13-3/8	48	440	475	circ
11	8-5/8	32	4086	1650	circ
7-7/8	5-1/2	15.5-17	9984	1925	circ
PRODUCING	•• INTERNAL: <u>Bau</u>	ım Upper Pe	nn perfs	9650-9820 (gross int	cerval)
COMPLETION	DATE: <u>3/13/8</u>	34			
CURRENT ST.	ATUS: PxA 2/1	3/85			
COMMENTS:	None				
		<del></del>	<u></u>		

JSB/tjt EPPRI1-DD

<sup>\*</sup>  $\underline{\underline{\text{Note:}}}$  Must attach a wellbore schematic for all PxA wells illustrating details.

Amoco Production Company

RESEARCH	ENGINEERING	CHART
11606711011	THOUSE THE STATE OF	VIII 1

FILE APPN

SUBJECT State DY No. 2	SUBJECT

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## PERTINENT DATA FOR WELLS WITHIN AREA OF REVIEW

OPERATOR: A	moco Produc	tion Comp	any		
WELL NAME: S	tate "DY" No	o. 3	<del></del>		
LOCATION: 7	10 FNL & 660	) FWL	Sec. <u>19</u>	, T- <u>13</u>	S, R- <u>33</u> E
ELEVATION: _	DF <u>4308.5</u>	. КВ			
TD: <u>10,000</u>				PBTD: 9960'	
		l	CASING DATA		
HOLE SIZE	SIZE	WT	DEPTH	AMT. OF CMT	TOC
17-1/2" 11" 7-7/8"	13-3/8" 8-5/8" 5-1/2"	54.5# 24# 17#	445 4,050 10,000	475 sx 1,500 sx 2,200 sx	Circ 23 sx Circ 219 sx Circ 150 sx
9677'-9814'	Noncontinuo	ıs	<del></del>	<del></del>	
				te "DY" No. 2	
				······	

<sup>\*</sup>  $\underline{\underline{\text{Note:}}}$  Must attach a wellbore schematic for all PxA wells illustrating details.

### PERTINENT DATA FOR WELLS WITHIN AREA OF REVIEW

OPERATOR: _	Amoco Prod	uction Con	npany			
			L			
LOCATION: _	570 FSL &	540 FWL	Sec. <u>18</u>	, T- <u>13</u>	-S, R- <u>33</u>	_ <b>-</b> E
ELEVATION:	4291.6	GL	4314.1	DF4315.	1	KB
TD: 10,000	יי		F	PBTD: 9,955'		
		,	CASING DATA			
HOLE SIZE	SIZE	<u>WT</u>	DEPTH	AMT. OF CMT.	TOC	<del></del>
17-1/2 11 7-7/8	13-3/8 8-5/8 5-1/2	54.5 24 & 32 155.5 &	439' 4,061' 17 9,995'	475 sx 1,960 sx 2,225 sx	Circ. 140 225' Temp Circ 42 sx	sx Surves
PRODUCING I	NTERAL: Bou	ıgh A. B &	C (Upper Pe	nn)		
			<u></u>			
(RE) COMPLE	TION DATE:	8-11-84	······································			
CURRENT STA	TUS: <u>Prod</u>	cing Oil	& Gas			
COMMENTS: _	None					

\*  $\underline{\text{Note}}$ : Must attach a wellbore schematic for all PxA wells illustrating details.

### DATA ON PROPOSED OPERATION NORTH BAUM SWD WELL NO. 1

1. Proposed average and maximum daily rates to be injected:

Average daily rate of 800 BWPD. Maximum daily rate of 2000 BWPD.

- 2. System will be closed with water being transferred through line pipe from producing wells to the injection well.
- 3. The maximum surface injection pressure will be limited to 0.2 psi/ft (2600 psi) or the actual fracture pressure will be determined by a step-rate test. The average injection pressure is expected to be approximately 400 psi.
- 4. The source on injected fluids will be from Amoco Production Company's nearby leases, the State "DY", State "DL", State "NB", State "DM", and State "IQ" Com. Water analysis and compatibility data are included.
- 5. Injection will be into the Devonian Formation which is non-productive within 1 mile.

### GEOLOGICAL INFORMATION

The Devonian Formation is a carbonate formation, dolomite. The total thickness is approximately 500 feet with the top of the Devonian at  $\pm 12,878$ . The only source of drinking water in the area is the Ogallala. The base of the Ogallala is approximately 250 feet deep. There are no drinking water sources below the Devonian Formation.

### PROPOSED STIMULATION PROGRAM

The proposed injection well will be completed open hole across the Devonian. The well will then be acidized with 700 gallons 15% HCl.

### WELL DATA

Well will be logged from new TD to original TD and logs will be furnished to the NMOCD at that time.

### AFFIRMATIVE STATEMENT

No evidence of open faults or any other hydrologic connection between the proposed injection zone and any underground source of drinking water was found.

## ITEM NO. 13 "PROOF OF NOTICE" INFORMATION

#### AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.
1,
Robert L. Summers
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 in a supplement thereof for a period
of
One weeks.
Beginning with the issue dated
July 16, 1985
and ending with the issue dated
July 16, 19
Kale & Semme
Publisher.
Sworn and subscribed to before
me this day of
July, 1985 Vera Murphy Notary Jubic
My Commission expires
This newspaper is duly qualified to publish legal notices or ad-

vertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been

made.

LEGAL NOTICE
JULY 16, 1985
TO WHOM IT MAY
CONCERN:
Amoco Production Company
has applied for administrative
opproval to recomplete. North
Baum SWD Well No. I from the
cisco to the Devonian Formation. The well is located in Unit
letter N, Section 18; Township 13
South, Range 33 East, Lea
County, New Mexico. The purpose of this work is to dispose of
produced water from properties
located in the Baum field into
the subject wellbore located on
the North Baum SWD Lease
(formerly the Waltaby "WZ"
State Com Lease). The water
will be injected into the Devonian Formation at an average
daily rate of 800 BWPD with a
maximum service injection
pressure of 2600 pst. Any questions concerning this project
may be directed to Mr. John M.
Breedon, District Foreman,
Amoco Production Company, P.
O. Box 68, Hobbs, New Mexico,
Phone: (503) 393-1781. Interested parties must file objections or request for hearing with
the Oil Conservation Division,
P. O. Box 2088, Santa Fe, New
Mexico 87501, within 15 days.
L. R. SMITH
District Manager
Amoco Production Company
P. O. Box 68

Hobbs, NM 88240