6 DESTA DRIVE, SUITE 3700 P.O. BOX 2760 MIDLAND, TEXAS 79702

FAX (915) 687-0086

August 2, 1994

(915) 683-2277

RE:

NOTICE OF APPLICATION FOR

AUTHORIZATION TO INJECT

POKER LAKE #43

POKER LAKE (DELAWARE) FIELD EDDY COUNTY, NEW MEXICO FILE: 400-WF: PKRLK#43.PMT

Mr. William J. LeMay Director, Oil Conservation Division State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Dear Mr. LeMay,

Enclosed please find Bass Enterprises Production Co.'s Application for Authorization to Inject for disposal purposes into the Poker Lake Unit #43, located in Sec. 21, T24S, R31E, Eddy County, New Mexico. Bass Enterprises Production Co. respectfully requests a hearing date be set as soon as possible.

If additional information is required, please contact Mr. Keith Bucy, Division Production Superintendent at the letterhead address.

Sincerely

Dear Inr. Le May;

John R. Smitherman Division Production Manager

GEG/pgo Attachments

eligible for administrative at Pass wond 1.

STATE OF NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION PO BOX 2088 SANTA FE, NM 87504-2088

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal Storage Application qualifies for administrative approval? Yes XX No
II.	OPERATOR: BASS ENTERPRISES PRODUCTION CO.
	ADDRESS: P. O. BOX 2760, MIDLAND, TEXAS 79702
	CONTACT PARTY: KEITH E. BUCY, DIV. PROD. SUPT. PHONE: 915-683-227
III.	WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project: Yes XX No If yes, give the Division order number authorizing the project
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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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/1 or less) overlying the proposed injection zone as well as any such sources 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.
Ш.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
av.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: KEITH E. BUCY TITLE: DIVISION PRODUCTION SUPT.
	SIGNATURE: DATE: 8/1/94
	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal.

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

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, PO Box 2088, Santa Fe, NM 87504-2088 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.

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July 28, 1994

INDIVIDUAL WELL DATA OF WELLS WITHIN AREA OF REVIEW SECTION VI, FORM C-108 $\,$

POKER LAKE UNIT #43

No wells exist within the one-half mile radius of the proposed injection well.

July 28, 1994

OPERATIONAL DATA SECTION VII, FORM C-108

POKER LAKE UNIT #43

AVERAGE DAILY INJECTION RATE

1000 BWPD

MAXIMUM DAILY INJECTION RATE

2000 BWPD

TYPE SYSTEM

CLOSED

AVERAGE INJECTION PRESSURE

1100 PSI

MAXIMUM INJECTION PRESSURE

2200 PSI

SOURCE OF INJECTED WATER

DELAWARE PRODUCED WATER

MEANS OF DISPOSAL

THROUGH 2-3/8" IPC TUBING BELOW PACKER

PROPOSED DISPOSAL INTERVAL

DELAWARE

PROPOSED DISPOSAL DEPTH

4404' - 4900' (PERFS)

July 28, 1994

GEOLOGIC DISCUSSION SECTION VIII, FORM C-108

POKER LAKE UNIT #43

The proposed injection zone is a very fine grained sand called the Ramsey/Olds which is located in the Bell Canyon geologic interval (Delaware Mountain Group).

A fresh water zone is located in the Rustler between 458' and 898' in the Pauley Petroleum Company's Jennings Federal #1 located in NE NE Sec. 20, T24S, R31E, Eddy County, New Mexico. This zone was produced by Amoco as a supply well for drilling activities before being squeezed in 1967. This zone is behind the 7" surface casing and was squeezed by Amoco with 85 sacks in August 1967.

A fresh water well is located in NE $\frac{1}{4}$ Sec. 28, T24E, R31E. The depth is unknown, but based on the fresh water zone in the Pauley Petroleum's Jennings Federal #1, this is most likely Rustler water also.

No fresh water zones are known to exist below the proposed injection interval.

July 28, 1994

PROPOSED STIMULATION PROCEDURE SECTION IX, FORM C-108

POKER LAKE UNIT #43

It is proposed to stimulate the injection interval with 3000 gallons 15% HCl at 2-3 BPM with maximum surface pressure of 2000 psi.

SECTION XII, FORM C-108 POKER LAKE UNIT #43

BEPCO has 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.

INJECTION WELL DATA SHEET

	WELL NO.					
	43	OPERATOR BASS ENT				
FOOTAGE LOCATION	660' FSL & 660' FWL	BASS ENTERPRISES PRODUCTION CO.				
SECTION	21	P(
TOWNSHIP	248	OKER LAKE UNIT				
RANGE	31E					

Th 5000'	4900	Proposed The Proposed	Mana		52,25		DV700 @\$3100					1	S. S	Schematic Proposed Dispose / Well
Injection Interval 4404 feet to 4960 feet (perforated or open-hole; Indicate which)	Total Depth 5000'	Hole Size 7-7/8"	TOC Surface feet determined by circulation	Size 5-1/2" Cemented with 970 sx.	Long String	Hole Size	TOC feet determined by	Size Cemented withsx.	Intermediate Casing	Hole Size 11"	TOC Surface feet determined by circulation	Size 8-5/8" * Cemented with 350 sx.	Surface Casing	Well Construction Data

INJECTION WELL DATA SHEET

Tubing Size	Size 2-3/8" lined with internal plastic coating set in a
	Baker 5-1/2" "TSN" packer at 4375' feet
Other	Other type of tubing / casing seal if applicable
Other Data	Data
	Is this a new well drilled for injection? Yes XX No
	If no, for what purpose was the well originally drilled? oil and gas exploration
5	Name of the injection formation Ramsey/01ds
မှ	Name of Field or Pool (if applicable) NA
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used. None, original plug report
	attached.
Ċι	Give the names and depths of any over or underlying oil of gas zones (pools) in this area.
	None

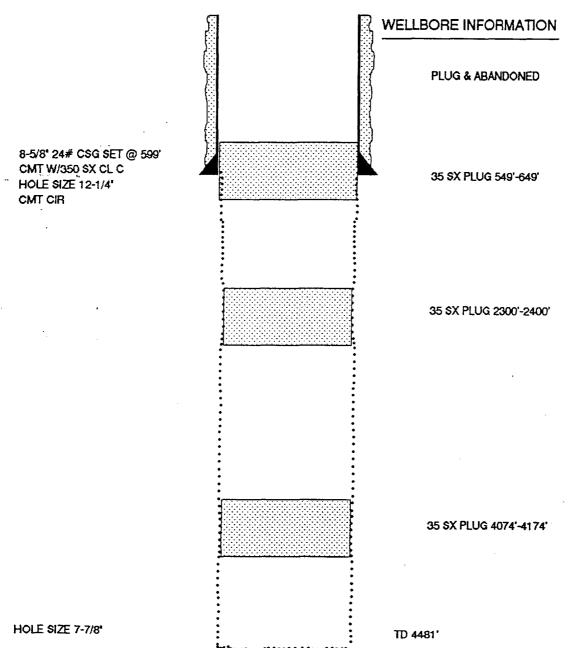
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Box 2760, M. d. Location of Well (See also space 17 be At surface	Report location of	kas 79701 learly and in accordance t	with any State	e requirements.*	10. в	TELD AND POOL,	
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18. I hereby certify that	the foregoing is	~ ()	в <u>Divisi</u>	on Production Cl	lerk	date March	14, 1976
(This space for Fede	eral or State offic	e use)					
APPROVED BY	PPPOWAT TRACE	TITL	Е			DATE	

*See Instructions on Reverse Side

POKER LAKE UNIT #43

LOCATION: 660' FSL & 660' FWL UNIT LETTER M SEC. 21, T24S, R31E

API NO: 30-015-21700 ELEVATIONS: 3497' GR SPUD DATE: 12-22-75 BASS ENTERPRISES POKER LAKE UNIT EDDY COUNTY, NM DATE: 5-24-94 WHF



6 DESTA DRIVE, SUITE 3700 P.O. BOX 2760 MIDLAND, TEXAS 79702

FAX (915) 687-0086

(915) 683-2277

August 2, 1994

RE: Poker Lake Unit #43

Application for Authorization

to Inject

Poker Lake (Delaware) Field Eddy County, New Mexico File: 400 WF: PKRLK#43.PMT

Amoco Production Co. P. O. Box 3092 MC/18.124 Houston, Texas 77253-9932

Attention: Mr. Julius Lassiter

Engineering Resource Manager

Please accept this application as formal notice under Rule 701 New Mexico Oil Conservation Department that Bass Enterprises Production Co. is making application to re-enter, deepen and convert to water disposal the Poker Lake #43 located in Section 21, T-24-S, R-31-E, Eddy County, New Mexico.

Any objections to this application or requests for a hearing of administrative applications must be filed within 15 days with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87504-2088.

If you should have any question, please contact Mr. Keith E. Bucy at the letterhead address.

Sincerely,

John R. Smitherman

Division Production Manager

∜₩ GEG/pgo

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to Inject

Poker Lake (Delaware) Field Eddy County, New Mexico File: 400 WF: PKRLK#43.PMT

J. R. Engineering and Construction Co.

P. O. Box 12237 Odessa, TX 79768

Attention: Mr. Jimmy Ray Richardson

Please accept this application as formal notice under Rule 701 New Mexico Oil Conservation Department that Bass Enterprises Production Co. is making application to re-enter, deepen and convert to water disposal the Poker Lake #43 located in Section 21, T-24-S, R-31-E, Eddy County, New Mexico.

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Sincerely,

John R. Smitherman

Division Production Manager

GEG/pgo

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August 2, 1994

RE:

Poker Lake Unit #43

Application for Authorization

to Inject

Poker Lake (Delaware) Field Eddy County, New Mexico File: 400 WF: PKRLK#43.PMT

Devon Energy 20 North Broadway Suite #1500 Oklahoma City, OK 73102

Attention: Mr. Ken Gray

Please accept this application as formal notice under Rule 701 New Mexico Oil Conservation Department that Bass Enterprises Production Co. is making application to re-enter, deepen and convert to water disposal the Poker Lake #43 located in Section 21, T-24-S, R-31-E, Eddy County, New Mexico.

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Sincerely,

John R. Smitherman

Division Production Manager

GEG/pgo

6 DESTA DRIVE, SUITE 3700 P.O. BOX 2760 MIDLAND, TEXAS 79702

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(915) 683-2277

August 2, 1994

RE:

NOTICE OF APPLICATION FOR OIL AND GAS

WASTE DISPOSAL WELL PERMIT

POKER LAKE UNIT #43

POKER LAKE (DELAWARE) FIELD EDDY COUNTY, NEW MEXICO FILE: 400-WF: PKRLK#43.PMT

Carlsbad Current Argus
P. O. Box 1629
Carlsbad, New Mexico 88220

Attention: Pat

Dear Pat,

Enclosed for publication is a legal advertisement. Bass Enterprises Production Co. requests this be published for three consecutive days. Bass Enterprises Production Co. is required by the New Mexico Oil Conservation Division to furnish them with a copy of this advertisement, from your newspaper, giving the dates of publication.

Can you please provide us with this item, sending any billing to the letterhead address.

Sincerely

John R. Smitherman

Division Production Manager

GEG/pgo Attachments

NOTICE OF APPLICATION FOR SALT WATER DISPOSAL WELL PERMIT

Bass Enterprises Production Co. has applied to the New Mexico Oil Conservation Division for a permit to dispose of produced salt water or other oil and gas waste by well injection into a porous formation productive of oil or gas. The applicant proposes to dispose of produced water or other oil and gas waste into the Poker Lake Unit #43 (Delaware formation). The proposed disposal well is located 40 miles Southeast of Carlsbad, New Mexico in Section 21, T-24-S, R-31-E, Eddy County, New Mexico. The produced salt water will be injected at a subsurface depth of 4404' to 4900'. The maximum surface injection pressure is estimated at 2200 psi, maximum rate of 2000 BWPD.

Any questions concerning this application should be directed to Bass Enterprises Production Co., Attention: Mr. John Smitherman, Division Production Manager, P. O. Box 2760, Midland, Texas 79702-2760.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days.

POKER LAKE UNIT #43 OFFSET OPERATORS AND INTERESTED PARTIES

Offset Operators:

Amoco Production Co.
P. O. Box 3092
MC/18.124
Houston, Texas 77253-9932
Attention: Mr. Julius Lassiter

Engineering Resource Manager

Devon Energy 20 North Broadway Suite #1500 Oklahoma City, OK 73102 Attention: Mr. Ken Gray

Surface Owner:

J. R. Engineering and Construction P. O. Box 12237 Odessa, Texas 79768 Attention: Mr. Jimmy Ray Richardson

I, Keith E Bucy, certify that copies of the application were mailed to the above affected parties.

07/29/94

Affidavit of Publication

State of New Mexico,	
County of Eddy, ss.	()-
Amy McKay	, V
being first duly sworn, on oath says:	
That she is Business Manage of the Carlsbad Current-Argus, a newspaper lished daily at the City of Carlsbad, in said co of Eddy, state of New Mexico and of general circulation in said county; that the same is a qualified newspaper under the laws of the wherein legal notices and advertisements mapublished; that the printed notice attached he was published in the regular and entire editions aid newspaper and not in supplement thereof the date as follows, to wit:	pub- unty paid duly state ly be ereto on of
	94
August 11 , 19 August 12 , 19	
August 13 , 19	· · · · · · · · · · · · · · · · · · ·
,19_	<u>-</u>
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That the cost of publication is \$74,07 and that payment thereof has been made and be assessed as court costs.	
Subscribed and sworn to before me	this
16 day of August , 19	90 ~
My commission expires 01/18/9	

Ooker Lake #43

August 11, 12, 13, 1994

NOTICE OF APPLICATION FOR SALT WATER DISPOSAL WELL PERMIT

Bass Enterprises Production Co. has applied to the New Mexico Oil Conservation Division for a permit to dispose of produced salt water or other oil and gas waste by well injection into a porous formation productive of oil or gas. The applicant processe to dispose of produced water or other dispose of produced water or other dispose of produced water or other dispose. The proposed dispose in the proposed disposed well is located 40 miles Southeast of Carlsbad, New Mexico in Section 21, T-24-S, R-31-E, Eddy County, New Mexico. The produced salt water will be injected at a subsurface depth of 4404' to 4900'. The maximum surface injection pressure is estimated at 2200 psi, maximum rate of 2000 BWPD.

Any questions concerning this application should be directed to Bass Enterprises Production Co., Attention: Mr. John Smitherman, Division Production Manager, P.O. Box 2760, Midland, Texas 79702-2760.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088 within 15 days.

in the reverse side?	Print your name and address on the reverse of this form so the return this card to you. Attach this form to the front of the mailpiece, or on the back does not permit. Write "Return Receipt Requested" on the mailpiece below the arm. The Return Receipt will show to whom the article was delivered delivered.	if space ticle number, and the date	I also wish to receive the following services (for an extra fee): 1. Addressee's Address 2. Restricted Delivery Consult postmaster for fee.	Return Receipt Service.
	3. Article Addressed to: Kenneth Smith P. O. Box 764 Carlstad, NM 88221- 6. Signature (Addressee) 6. Signature (Agent)	Regi	ress Mail Return Receipt for Meshandise	you for using
	5. Signature (Addressee) 6. Signature (Agent) PS Form 3811, December 1991 & U.S.G.P.O.: 1992-3	and	ressee's Address (Only if requested fee is paid)	Thank
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4	• Write "Return Receipt Requested" on the mailpiece below the a The Return Receipt will show to whom the article was delivered delivered. 3. Article Addressed to: Carlsbad Cument Argus P. O. Box 1629 Carlsbad, NM 88220	4a. Ar	Consult postmaster for fee. ticle Number 112 327 558 rvice Type istered Insured	using Return Receipt
	5. Signature (Addressee)	7. Date	ress Mail Peturn Receipt for Merchandise e of Delivery (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ou for
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