

BASS ENTERPRISES PRODUCTION CO.

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

FAX (915) 687-0086

(915) 683-2277

August 2, 1994

**RE: NOTICE OF APPLICATION FOR
AUTHORIZATION TO INJECT
GOLDEN 8 FEDERAL #3
SOUTH GOLDEN LANE (DELAWARE) FIELD
EDDY COUNTY, NEW MEXICO
FILE: 400-WF: GLDN8FD3.PMT**

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

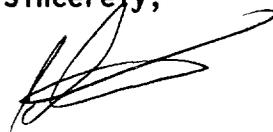
11078

Dear Mr. LeMay,

Enclosed please find Bass Enterprises Production Co.'s Application for Authorization to Inject for pressure maintenance into the Golden "8" Federal #3, located in Sec. 8, T21S, R29E, 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,



John R. Smitherman
Division Production Manager


GEG/pgo
Attachments

Case 11078

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: Secondary Recovery X Pressure Maintenance 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: 915-683-2277

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:

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 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.

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: KEITH E. BUCY TITLE: DIVISION PRODUCTION SUPT.

SIGNATURE: *Keith E. Bucz* DATE: 7/27/94

* 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. _____

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.

BASS ENTERPRISES PRODUCTION CO.

July 27, 1994

OPERATIONAL DATA
SECTION VII, FORM C-108

GOLDEN 8 FEDERAL #3

AVERAGE DAILY INJECTION RATE	500 BWPD
MAXIMUM DAILY INJECTION RATE	1000 BWPD
TYPE SYSTEM	CLOSED
AVERAGE INJECTION PRESSURE	1100 PSI
MAXIMUM INJECTION PRESSURE	2100 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	4248-4310'

BASS ENTERPRISES PRODUCTION CO.

July 22, 1994

GEOLOGIC DISCUSSION
SECTION VIII, FORM C-108

GOLDEN 8 FEDERAL #3

The proposed injection zone is the "49er" sand member of the Cherry Canyon interval of the Delaware Mountain Group. The Delaware Mountain Group consists of fine sands, silts and thin limestone beds. The injection zone averages 90' in thickness with the top at 4248'.

One fresh water well is known to exist within 1 mile of proposed injection well. This well is located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 18, T-21-S, R-29-E, Eddy County, New Mexico. This water is believed to be Rustler water at depth of 190'-286'. No sources of potable water are known to exist below the proposed injection zone.

BASS ENTERPRISES PRODUCTION CO.

July 27, 1994

PROPOSED STIMULATION PROCEDURE
SECTION IX, FORM C-108

GOLDEN 8 FEDERAL #3

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

BASS ENTERPRISES PRODUCTION CO.

July 18, 1994
GLDN8FD3.PER

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

GOLDEN 8 FEDERAL #3

OPERATOR WELL NAME	LOCATION	SPUD	TD	COMPLETION	SURFACE CASING	CEMENT	INTERMEDIATE CASING	CEMENT	PRODUCTION CASING	CEMENT	PERFS	TYPE
BEPCO Big Eddy #85	660' FSL & 1980' FWL SECTION 8, T21S, R29E	5/28/81	12,800'	8/26/81	11-3/4" @ 755'	475 sk	8-5/8" @ 3300'	2150 sk	5-1/2" @ 12,800'	725 sk	12,365-12,516'	Gas
BEPCO Golden 8 Federal #1	1650' FSL & 2180' FWL SECTION 8, T21S, R29E	3/3/92	6,800'	5/18/92	8-5/8" @ 810'	480 sk	7" @ 3165'	800 sk	4-1/2" @ 6800'	400 sk	4,238-4,262'	Oil
BEPCO Golden 8 Federal #2	2310' FSL & 330' FSL SECTION 8, T21S, R29E	7/9/92	4,506'	10/28/92	11-3/4" @ 695'	500 sk	8-5/8" @ 2982'	1600 sk	5-1/2" @ 4506'	315 sk	4,195-4,218'	Oil
BEPCO Golden 8 Federal #4	990' FSL & 990' FWL SECTION 8, T21S, R29E	1/15/93	4,573'	2/9/93	11-3/4" @ 900'	125 sk	8-5/8" @ 3020'	1200 sk	5-1/2" @ 4573'	350 sk	4,214-4,228'	Oil
BEPCO Golden 8 Federal #1	2310' FSL & 1650' FWL SECTION 8, T21S, R29E	9/9/92	4,514'	2/16/93	11-3/4" @ 821'	500 sk	9-5/8" @ 1570' 7" @ 3052'	600 sk 375 sk	4-1/2" @ 4515'	350 sk	4,260-4,274'	Oil
BEPCO Golden D Federal #2	660' FSL & 1980' FEL SECTION 8, T21S, R29E	5/4/93	4,550'	6/7/93	11-3/4" @ 896'	510 sk	8-5/8" @ 3000'	1225 sk	5-1/2" @ 4550'	325 sk	4,203-4,218'	Oil
BEPCO Golden D Federal #3	2310' FEL & 1650' FSL Section 8, T21S, R29E	10/4/93	4,525'	11/8/93	11-3/4" @ 1250'	880 sk	-	-	5-1/2" @ 4525'	1760 sk	4,226-4,259'	Oil

BASS ENTERPRISES PRODUCTION CO.

June 9, 1994

SECTION XII, FORM C-108

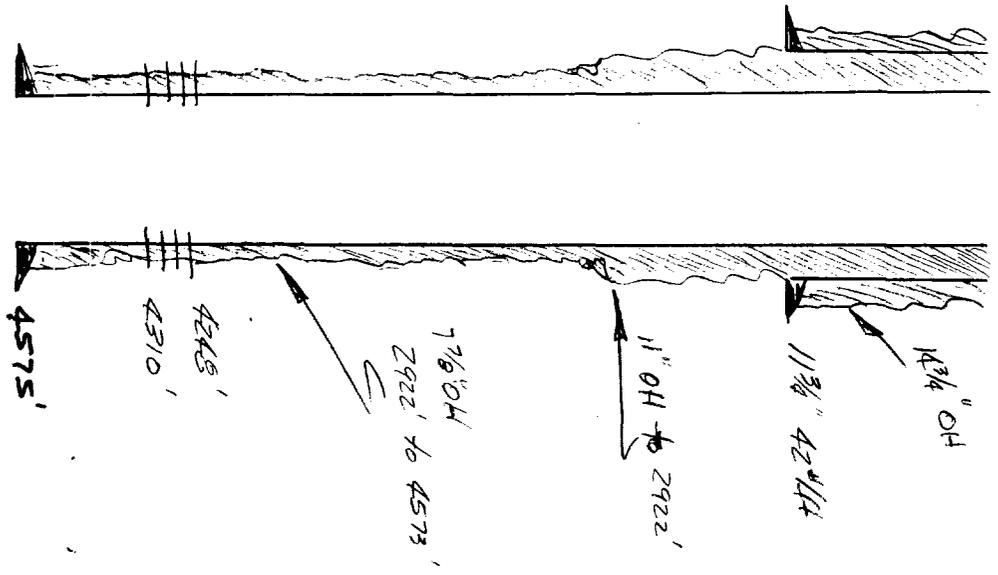
GOLDEN 8 FEDERAL #3

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

OPERATOR BASS ENTERPRISES PRODUCTION CO. **LEASE** GOLDEN 8 FEDERAL
WELL NO. #3 **FOOTAGE LOCATION** 1980' FSL & 660' FWL **SECTION** 8 **TOWNSHIP** T21S **RANGE** R29E

Schematic



Well Construction Data

Surface Casing
 Size 1 1/4" Cemented with 750 sx.
 TOC Surface feet determined by circulation
 Hole Size 14-3/4"

Intermediate Casing
 Size 1 1/8" Cemented with sx.
 TOC feet determined by

Hole Size

Long String
 Size 7-7/8" Cemented with 1500 sx.
 TOC Surface feet determined by circulation
 Hole Size 11" to 2922', 7-7/8" from 2922' to 4575'
 Total Depth 4575'

Injection Interval
4248 feet to 4310 feet
 (perforated or open-hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size 2-3/8" lined with internal plastic coating set in a
Baker 5-1-2" "TSN" packer at 4225' feet
 (Type of Internal coating)

Other type of tubing / casing seal if applicable _____

Other Data

1. Is this a new well drilled for Injection? Yes XXXX No

If no, for what purpose was the well originally drilled? oil and gas exploration

2. Name of the Injection formation Cherry Canyon 49er

3. Name of Field or Pool (if applicable) S. Golden Lane

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

5. Give the names and depths of any over or underlying oil or underlying oil of gas zones (pools) in this area.

Golden Lane (Wolfcamp) 10,000'

Golden Lane (Morrow) 12,000'

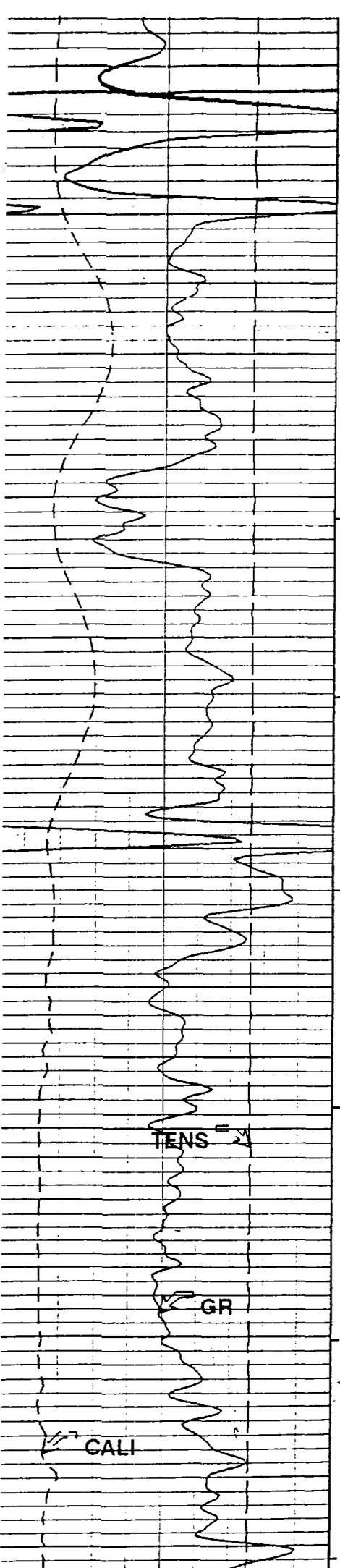
COMPANY: BASIS ENTERPRISES PROD. CO.

WELL: GOLDEN 8 FEDERAL #3

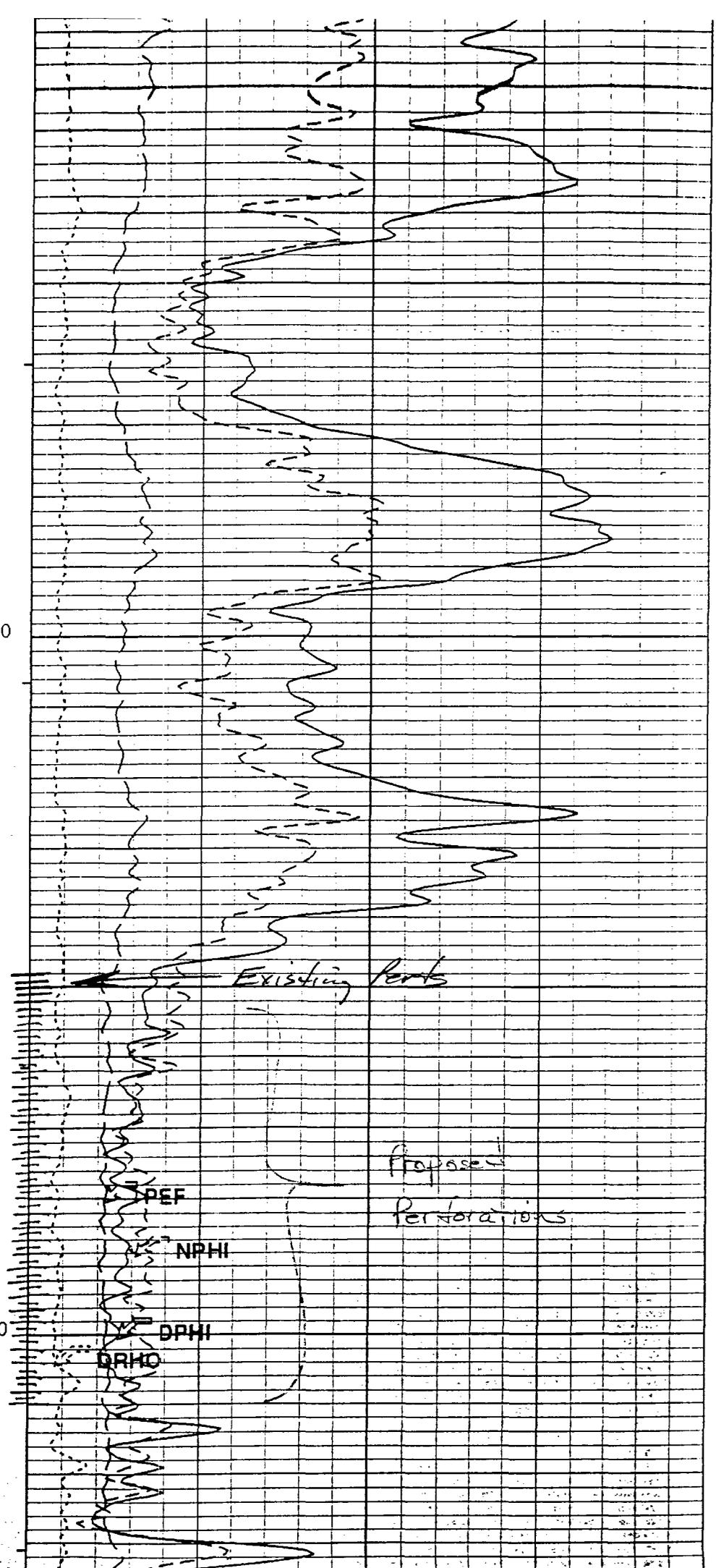
FIELD: SOUTH GOLDEN LANE (DELAWARE)

COUNTY: EDDY STATE: NEW MEXICO

Chamberlain



4200



BASS ENTERPRISES PRODUCTION Co.

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

FAX (915) 687-0086

(915) 683-2277

August 2, 1994

RE: NOTICE OF APPLICATION FOR OIL AND GAS
WASTE DISPOSAL WELL PERMIT
GOLDEN 8 FEDERAL #3
SOUTH GOLDEN LANE (DELAWARE) FIELD
EDDY COUNTY, NEW MEXICO
FILE: 400-WF: GLDN8FD3.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 AUTHORIZATION TO INJECT

Bass Enterprises Production Co. has applied to the New Mexico Oil Conservation Division for a permit to inject produced water for pressure maintenance into the Golden "8" Federal #3. The proposed injection well is located 14 miles Northeast of Carlsbad, New Mexico in Section 8, T-21-S, R-29-E, Eddy County, New Mexico. The produced salt water will be injected at a subsurface depth of 4248' to 4310'. The maximum surface injection pressure is estimated at 2100 psi, maximum rate of 1000 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.

BASS ENTERPRISES PRODUCTION Co.

6 DESTA DRIVE, SUITE 3700
P.O. BOX 2760
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FAX (915) 687-0086

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August 2, 1994

RE: GOLDEN 8 FEDERAL #3
APPLICATION FOR AUTHORIZATION
TO INJECT
SOUTH GOLDEN LANE (DELAWARE) FIELD
EDDY COUNTY, NEW MEXICO
FILE: 400 WF: GLDN8FD3.PMT

Cliff Key
P. O. Box 355
Lovington, NM 88260-0355

Attention: Mr. Cliff Key

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 injection the Golden 8 Federal #3 located in Section 8, T-21-S, R-29-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

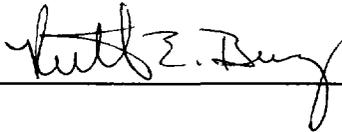

GEG/pgo

**GOLDEN 8 FEDERAL WELL NO. 3
OFFSET OPERATORS AND INTERESTED PARTIES**

Offset Operators:
None

Surface Leasee:
Mr. Cliff Key
P. O. Box 355
Lovington, New Mexico 88260

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



07/29/94