BETTIS, BOYLE & STOVALL
P. O. BOX 1240
GRAHAM, TX 76450
FAX 817-549-7405 OR PHONE 817-549-0780

OFL CONSER IN DIVISION

REC , FD

November 5, 1991

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Oil Conservation Division
P. O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501

Attn: Mr. David Catanach

Re: Application for Authorization

To Inject Corral Draw #2 Sec. 22-T25S-R29E Eddy Co., NM

Dear Mr. Catanach,

Enclosed please find our application for authorization to convert the Corral Draw #2 well to a saltwater disposal well. The Corral Draw #2 was drilled by Mobil in 1974. After producing and testing two deeper zones the Bell Canyon zone 3180-3333' was tested non-commercial (water) in 1986. Since that time the well has been TA'd. In 1987 Bettis, Boyle and Stovall bought the lease from Mobil.

In June, 1990, Bettis, Boyle & Stovall tested the 7-5/8" casing to satisfy BLM requirements of proof of casing integrity. The casing was tested to 515 psi with no leakoff in 25 minutes.

At this time Bettis, Boyle and Stovall requests authority to convert the well to a disposal well to dispose of Cherry Canyon Delaware water being produced from our Pickett Draw #2 well in Section 10, T25S, R29E. Attached to our application please find pertinent well data on the well, a map showing the well location and other wells in the area, an analysis of water to be disposed, and proof of mailing to offset operators as well as proof of publication of this application.

A review of the area shows there are no wells within one-half mile of the proposed disposal well. A search of the area also revealed no fresh water wells, therefore no fresh water analysis of the area was made.

A geologic study of the area indicates the base of the salt and anhydrite at ± 3100 °. Several wells have tested the Bell Canyon in the surrounding area but no commercial production has been established in the Bell Canyon or any shallower formation. The nearest deeper production is from the Cherry Canyon around 5200° which produces in several surrounding wells but none of which are closer than one mile away.

Corral Draw #2 Page -2-

We would appreciate your consideration for administrative approval of our application as soon as possible. Please advise if you need additional information.

Yours truly,

BETTIS, BOYLE AND STOVALL

Steven D. Gray

Petroleum Engineer

SDG:vu

Encls.

cc: Offset Operators

OIL CONSERVATION DIVISION POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

F0RM C-108 Revised 7-1-81

Ι.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X yes no					
II.	Operator: Bettis, Boyle & Stovall					
	Address: P. O. Box 1240 Graham, TX 76450					
	Contact party: Steve Gray Phone: 817-549-0780					
111.	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? \[\begin{aligned} \text{yes} & \text{X} no \\ \text{If yes, give the Division order number authorizing the project \end{aligned}.					
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.					
/11.	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.). 					
111.	Attach appropriate geological data on the injection zone including appropriate lithologi 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.					
KII.	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.					
II.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.					
αν.	Certification					
	I hereby certify that the information submitted with this application is true and correcto the best of my knowledge and belief.					
	to the best of my knowledge and belief. Name: STEVEN D GRAY Signature: Steven D. Zhay Date: 11-5-41					
	Signature: (Steven 1). Living Date: 11-5-41					

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 easing 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 dement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

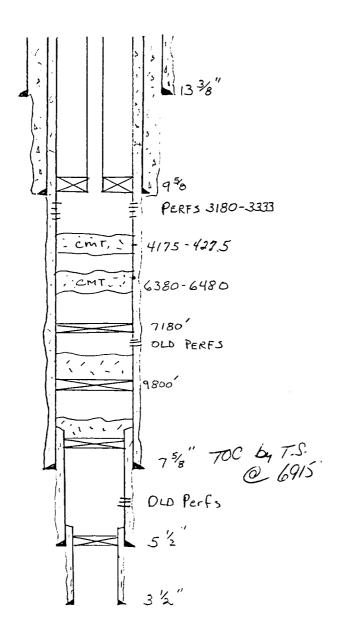
- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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CORRAL DRAW UNIT #2 1580' FSL & 1980' FWL SECTION 22, T25S, R29E EDDY CO., N.M.



SURFACE CASING
13-3/8" @ 350'
CMT'D W/ 400 SX CIRC
TO SURFACE

INTERMEDIATE CASING 9-5/8" @ 3097' CMT'D W/ 1800 SX CIRC TO SURFACE

PRODUCTION CASING 7-5/8" @ 10,982' CMT'D W/ 925 SX

SQUEEZE HOLES @ 7850' CMT'D W/ 925 SX

SQUEEZE HOLES @ 6430' CMT'D W/ 900 SX

SQUEEZE HOLES @ 4225' CMT'D W/ 825 SX

LINERS 5-1/2" ±10,700-13,128' CMT'D W/ 400 SX

 $3-1/2" \pm 13,000-13,480'$ CMT'D W/ 80 SX

OLD PERFS WOLFCAMP 11,560-582' BONE SPRINGS 7236-7604'

CORRAL DRAW #2

Injection Well Application (continued)

Tubing to be used - 2-3/8" J55 tubing internally coated with Salta (PVC) lining set at 3100'.

Baker 7-5/8" AD-1 Tension Packer at 3100'.

- 1. Injection Formation Bell Canyon (Delaware)
- 2. Name of Field West Corral Canyon
- 3. Proposed injection zone is perforated from 3313-3333', 3230-3242', 3180-3189'
- 4. This is not a new well drilled for injection
- 5. This well was tested in deeper intervals in the Wolfcamp and Bone Spring. Several cast iron and cement plugs were placed according to well records (see wellbore sketch.)

CORRAL DRAW #2

SWD Application Sec. 21, T25S, R29E Eddy Co., NM

Offset Operators

M. Brad Bennett, Inc. Box 2062 Midland, TX 79702

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210

Bettis Brothers, Inc. 500 W. Texas, Ste. 830 Midland, TX 79701

Enron Oil & Gas Co. Box 2267 Midland, TX 79702

Meridian 21 Desta Drive Midland, TX 79705

Santa Fe Energy Operating Partners, L.P 500 W. Illinois Midland, TX 79701

Delaware Ranch % Draper Brantley Jr. 706 Riverside Drive Carlsbad, NM 88220

Byran Wagner 5518 Prytania New Orleans, LA 70115

Exxon
Box 1600
Midland, TX 79702

Certified Mail Receipt

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

Yates Petroleum Corp. 105 S. 4th St. Artesia, NM 88210

	Postage	\$ 52
	Certified Fee	1.00
	Special Delivery Fee	
	Restricted Delivery Fee	
PS Form 3800, June 1990	Return Receipt Showing to Whom & Date Delivered	1.00
	Return Recent Showing to Whom, Date: & Address of Delivery	
	TOTAL Portage	\$ 2.52
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Enron Oil & Gas Co. Box 2267 Midland, TX 79702

	PO State & ZIP Code	
	Postage	\$ 52
	Certified Fee	\$ 5Z 100
	Special Delivery Fee	
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Certified Mail Receipt No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Meridian 21 Desta Drive Midland, TX 79705 244 EP2 403 9

(See Reverse)

Certified Mail Receipt No Insurance Coverage Provided
Do not use for International Mail

	Cettis Bros.	INC.
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	Midland, TX	79701
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Certified Mail Receipt No Insurance Coverage Provided Do not use for International Mail

Delaware Ranch % Draper Brantley Jr. 706 Riverside Drive Carlsbad, NM 88220

	Postage	\$.52
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Certified Mail Receipt

M. Brad Bennett, Inc. Box 2062 Midland, TX 79702

P.O., State & ZIP Code

P 004 543 444



Certified Mail Receipt

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

Exxon Box 1600 Midland, TX 79702

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	Restricted Delivery Fee	
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Santa Fe Energy 500 W. Illinois Midland, TX 79701

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Certified Mail Receipt No Insurance Coverage Provided Do not use for International Mail

Byran Wagner 5518 Prytania New Orleans, LA 70115

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OCT ZO '91 09:20 HALLIBURTON ARTESTA TATORY REPORT

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