

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: TEXACO Well: DAGGER DRAW #1

Contact: DOROTHY BRELIH Title: _____ Phone: 397-0429

DATE IN 8-16-93 RELEASE DATE 8-30-93 DATE OUT _____

Proposed Injection Application is for: WATERFLOOD Expansion Initial

Original Order: R- _____ Secondary Recovery Pressure Maintenance

SENSITIVE AREAS SALT WATER DISPOSAL

WIPP Capitan Reef Commercial Operation

Data is complete for proposed well(s)? Additional Data _____

AREA of REVIEW WELLS

Total # of AOR # of Plugged Wells
 Tabulation Complete Schematics of P & A's
 Cement Tops Adequate AOR Repair Required

INJECTION INFORMATION

Injection Formation(s) CANYON (MISSISSIPPIAN)

Source of Water TEXACO OFFSET WELLS - CORRELATIVE FORM. Compatible

PROOF OF NOTICE

Copy of Legal Notice Information Printed Correctly
 Correct Operators Copies of Certified Mail Receipts
 Objection Received Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL Yes

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____	Date	_____	Nature of Discussion	_____
2nd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____	Date	_____	Nature of Discussion	_____
3rd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____	Date	_____	Nature of Discussion	_____

OIL CONSERVATION DIVISION
RECEIVED

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no

II. Operator: Texaco Exploration & Producing, Inc.

Address: P.O. Box 730, Hobbs, New Mexico 88241-0730

Contact party: Dorothy Brelih Phone: (505) 397-0429

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 _____.

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: Terry Frazier Title Area Manager

Signature: Terry Frazier / RSP Date: 8/12/93

* 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. Log submitted December 1976 upon initial completion of well

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 footace 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, 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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22 Yates Pet. et al. 12246 Yates Pet. HBP Ed Parrish, et al.	23 Yates Pet. et al. 12246 Yates Pet. HBP Ed Parrish, et al.	24 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	25 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	26 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	27 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	28 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	29 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	30 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	31 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	32 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	33 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.	34 Yates Pet. HBP 26864 Yates Pet. HBP Ed Parrish, et al.
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CANYON

DRAW

LAND MAP

Ocotillo "ACI" U.S. Fed.

Santa Fe Ener.

Santa Fe Ener.

Carl

Yates Pet. et al.

Yates Pet. et al.

Conoco

Conoco

CENETARY

CENETARY

Read, Stevens

David Fosken

Read, Stevens

Read, Stevens

Phillips

Phillips

Yates Pet. et al.

D. Fosken

D. Fosken

D. Fosken

Yates Pet. et al.

Form C-108 (cont.)

- III.A. (1) Dagger Draw No. 1
660' FSL and 1980' FEL
Sec. 32-T19S-R25E
Unit O
Eddy County, New Mexico
- (2) See attached wellbore schematic
- (3) Proposed: 7600' of 2-7/8", plastic-lined tubing
- (4) Proposed: Guiberson Tension Packer, annular space filled with packer fluid
- B. (1) Proposed injection is into the Canyon formation in the Dagger Draw field
- (2) Injection will be through 248 holes perforated in various intervals from 7636' - 7978'
- (3) This well was originally drilled as a gas well
- (4) See attached wellbore schematic
- (5) Next higher oil or gas zone: Wolfcamp
Next lower oil or gas zone: Strawn
- VI. Only one wellbore in area of review; schematic attached
- VII. (1) Proposed average daily injection will be approximately 1800 bwpd. Maximum will be 6000 bwpd.
- (2) The system will be closed
- (3) The average injection pressure is expected to be 0 (vacuum). The maximum will not exceed the limit of 0.2 psi/ft set forth by the OCD, or approximately 1400 psi.
- (4) The source of the water will be Texaco-operated wells in the Dagger Draw. Compatibility is assumed, as the injection horizon is correlative with the zone we produce from.
- (5) The Canyon is not productive within one mile of the Dagger Draw No. 1 disposal well. Attached is a water analysis from our nearby producer (and one of the source wells), EE Federal 24 #1.

Form C-108 (cont.)

- VIII. The injection interval is the Canyon. This formation is composed of limestone and porous dolomite, with secondary porosity development. The Canyon extends from approximately 7632' to 7990'. The fresh water in this area is from the Ogalalla, approximately 100 to 350 feet deep. The surface is overlain by the Quaternary Alluvium. Fresh water analyses from active wells in the area are included in this application. There are no fresh water zones below the Canyon.
- IX. The disposal interval will be treated with a breakdown acid job consisting of 6000 gals of 15% NEFE acid
- X. Previously submitted (see cover page). Results of injectivity test performed during completion will be forwarded.
- XI. Previously submitted, but more current analyses attached
- XII. We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.
- XIII. All offset surface owners and leaseholders have been notified concurrent with the submittal of this application; copies of receipts are attached.
- & XIV.

Proof of publication attached.

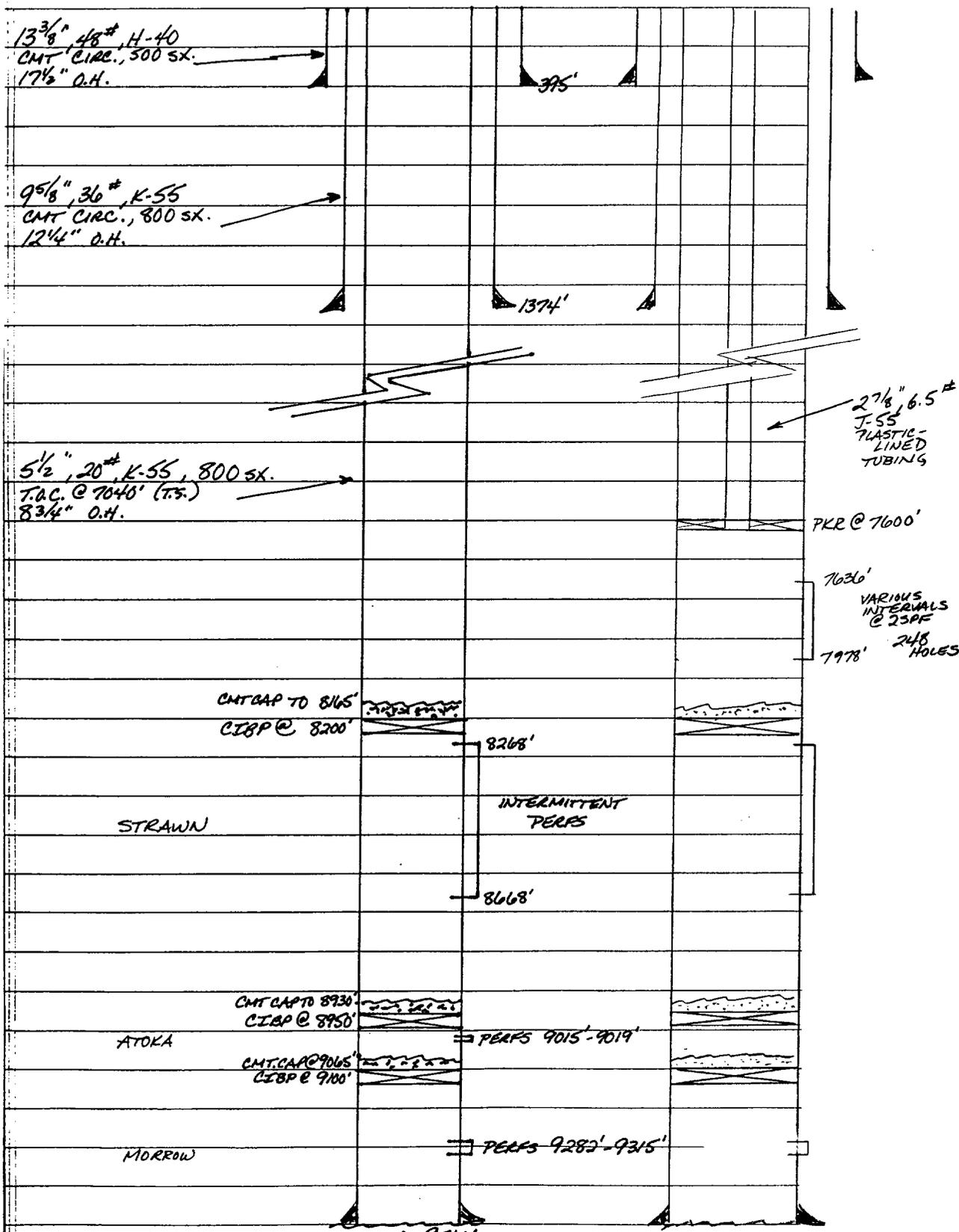
DAGGER DRAW #1

(FORMERLY ALBERT FED COM #1)

UNIT 0
SEC. 32/T19S/R25E
EDDY CO., NEW MEXICO

BEFORE:

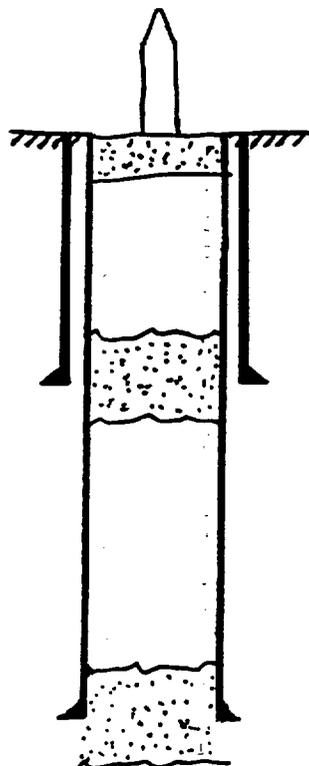
AFTER:



OPERATOR MewBORNE Oil COMPANY	DATE 4-30-91
LEASE S.P. Johnson	WELL No 1
LOCATION Unit 6 Sec 5-T20S-R25E	

1980' FNL md 1980' Fe1
Eddy Co. New Mexico

STATUS: P + A
4-23-82



10 sx @ surface

12 1/4" CSG set @ 305' with 300 SXS
Circulated

35 SX @ 235-350'

8 5/8" casing set at 1250' with 450 sx of _____ cement
Hole size 12 1/4" Circulated



35 SX @ 2300 - Tagged @ 1170'

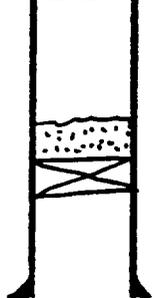
35 SX @ 3680 3720

35 SX @ 6160 - 6200



4 1/2" CSG SHOT md pulled @ 6683'
35 SX plug @ 6733-6528'

CIBP @ 9250' + 35' cmt



4 1/2" casing set at 9500' with 650 sx of _____ cement
Total Depth 9500' Hole size 7 3/8" TOC by TS
7174'

I

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : TEXACO INC.
Date : 08-09-1993
Location: "EE" FEDERAL - 24-1 (on 6-8-1993)

Specific Gravity: 1.005
Total Dissolved Solids: 7350
pH: 7.40
IONIC STRENGTH: 0.163

Separator line of asterisks

Table with 4 columns: CATIONS, chemical formula, me/liter, mg/liter. Rows include Calcium, Magnesium, Sodium, and Iron (total).

Table with 4 columns: ANIONS, chemical formula, me/liter, mg/liter. Rows include Bicarbonate, Carbonate, Hydroxide, Sulfate, and Chloride.

Separator line of asterisks

SCALING INDEX (positive value indicates scale)

Table with 4 columns: Temperature (F/C), Calcium Carbonate, Calcium Sulfate. Rows show scaling index values for temperatures from 86[F] to 160[F].

Comments:
cc: Bill Polk
Joe Hay
Analysis performed by Bob Wallace - Hobbs Lab

I

P 155 042 795



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail

Nearburg Producing Co.
P.O. Box 31405
Dallas, Texas 75231

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	

P 155 042 780



Receipt for Certified Mail

No Insurance Coverage Provided

Bureau of Land Mgmt.
P.O. Box 1778
Carlsbad, NM 88221-1778

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	

P 155 042 782



Receipt for Certified Mail

No Insurance Coverage Provided

Yates Pet. Corp., et al
105 S. 4th St.
Artesia, NM 88210

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	

P 155 042 790



Receipt for Certified Mail

No Insurance Coverage Provided

1st Natl Bank of Roswell
Trustee uwo Ruth K. Covert
P.O. Box 1977
Roswell, NM 88201

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	

P 155 042 781



Receipt for Certified Mail

No Insurance Coverage Provided

Mobil E & P, Inc.
Nine Greenway Plaza
Suite 2700
Houston, Texas 77046

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	

P 155 042 794



Receipt for Certified Mail

No Insurance Coverage Provided

Nearburg Exploration Company
401 E. Illinois, Suite 300
Midland, Texas 79701

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	

P 155 042 781



Receipt for Certified Mail

No Insurance Coverage Provided

BHP Petroleum Inc.
5847 San Felipe
Houston, Texas 77057

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	2.75
Postmark or Date	

P 155 042 782



Receipt for Certified Mail

No Insurance Coverage Provided

Carl Foster
1707 Northgate Place
Artesia, NM 88210

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	2.75
Postmark or Date	

P 155 042 787



Receipt for Certified Mail

No Insurance Coverage Provided

Aetna Petroleum Corp.
P.O. Box 17006-TA
Denver, Colorado 80217

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	2.75
Postmark or Date	

P 155 042 783



Receipt for Certified Mail

No Insurance Coverage Provided

Mark J. Mourné
1500 Four Mile Lane
Canon City, CO 81212

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	2.75
Postmark or Date	

P 155 042 785



Receipt for Certified Mail

No Insurance Coverage Provided

Conoco, Inc.
P.O. Box 2197
Houston, Texas 77252

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	2.75
Postmark or Date	

P 155 042 784



Receipt for Certified Mail

No Insurance Coverage Provided

Mewbourne Oil Co.
P.O. Box 7698
Tyler, Texas 75711

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	2.75
Postmark or Date	

P 155 042 793



Receipt for Certified Mail

No Insurance Coverage Provided

S.P. & Barbara Jo Johnson
P.O. Box 1713
Roswell, NM 88201

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	HOBBINS NM 1991

PS Form 3800, June 1991

P 155 042 768



Receipt for Certified Mail

No Insurance Coverage Provided

J.M. Huber Corp.
110 N. Marienfeld St.
Midland, Texas 79701

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	HOBBINS NM 1991

PS Form 3800, June 1991

P 155 042 787



Receipt for Certified Mail

No Insurance Coverage Provided

Courtney & Pauline Holstun
Trustees
610 S. Atkinson
Roswell, NM 88201

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$2.75
Postmark or Date	HOBBINS NM 1991

P 155 042 791



Receipt for Certified Mail

No Insurance Coverage Provided

PJC Revocable Trust
c/o Patricia J. Cooper
1409 S. Sunset
Roswell, NM 88201

PS Form 3800, June 1991

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	
Postmark or Date	HOBBINS NM 1991

Affidavit of Publication

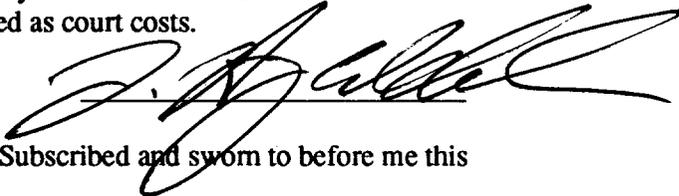
State of New Mexico,
County of Eddy, ss.

Bryan Welch, being first duly sworn, on oath says:

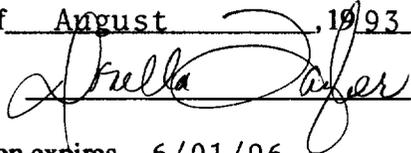
That he is publisher of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

August 12, _____, 19 93
_____, 19____
_____, 19____
_____, 19____

That the cost of publication is \$ 23.95, and that payment thereof has been made and will be assessed as court costs.


Subscribed and sworn to before me this

12 day of August, 1993



My commission expires 6/01/96
Notary Public

August 12, 1993

LEGAL NOTICE

Notice is hereby given of the application of Eastern Exploration & Production, Inc., Attention: Terry L. Ponder, Area Manager, P.O. Box 780, Hobbs, New Mexico 88240, Telephone (505) 325-1121, to the New Mexico Oil Conservation Commission, Energy and Minerals Department, for approval of the following wells to be converted to water injection for the purpose of disposal.

Lease Name: Dwyer Draw

Well Number and Location:

#1 - Unit Lateral 5-200/FEL & 1000/FEL, Section 32, T19S, R26E

The injection formation is Canyon at a depth from 7025 feet to 7975 feet below the surface of the ground. Estimated maximum injection rate is 8000 barrels per day and expected maximum injection pressure is 1200 pounds per square inch. Interested parties may file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication.