CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: Yares Perroltum COPF: Well: GONNISON SIND NO 1
Contact: Pfini Greans Title: P.F. Phone: 745 4182.
DATE IN 9 5 95 RELEASE DATE 9:19:95 DATE OUT 9:27:95
Proposed Injection Application is for:WATERFLOODExpansion initial
Original Order: R Secondary Recovery Pressure Maintenance SENSITIVE AREAS SALT WATER DISPOSAL
Data is complete for proposed well(s)? UE Additional Data
AREA of REVIEW WELLS
Total # of AOR # of Plugged Wells
Tabulation Complete MA Schematics of P & A's
Cement Tops Adequate N/A AOR Repair Required
INJECTION INFORMATION
Injection Formation(s) DEALIARE
Injection Formation(s) DEALUAGE Source of Water PRODUCTION Compatible 1/15
Source of Water AREA PRODUCTION Compatible 445
Source of Water <u>AREA PRODUCTION</u> Compatible <u>HS</u> PROOF OF NOTICE
Source of Water AREA PRODUCTION Compatible #5 PROOF OF NOTICE ***Copy of Legal Notice
Source of Water AREA PRODUCTION Compatible HIS PROOF OF NOTICE Copy of Legal Notice HIS Information Printed Correctly Copies of Certified Mail Receipts A Objection Received Set to Hearing Date NOTES: A PATRACTED PRINK A FINN DAYS BUT DICAYED RETEASE.
Source of Water AREA PRODUCTION Compatible #5 PROOF OF NOTICE ***Copy of Legal Notice
Source of Water AREA PRODUCTION Compatible 4ts PROOF OF NOTICE AREA PRODUCTION Compatible 4ts PROOF OF NOTICE AREA PRODUCTION AREA COMPAND Printed Correctly APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVALUES APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVALUES
PROOF OF NOTICE Mathematical Production Compatible 4ts
Source of Water AREA PRODUCTION Compatible 4ts PROOF OF NOTICE ***Copy of Legal Notice At Information Printed Correctly ***Copies of Certified Mail Receipts ***A Objection Received Set to Hearing Date NOTES: A PETRACTED PAIRE A FOW DAYS BUT DELAYED RECEIVED. **YATES PROSOSE TOC AFTER RE-CORF TO AICO - NEW 3500 ± APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL!*** COMMUNICATION WITH CONTACT PERSON:



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT

SWO 9.19.95

PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY

September 1, 1995

David Catanach State of New Mexico OIL CONSERVATION DIVISION 2040 S. Pacheco Street Santa Fe, NM 87505-5472

Dear Mr. Catanach,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4182.

Sincerely,

Brian Collins

Petroleum Engineer

BC/th

of the earlier submittal.

	SANTA FE, NEW MEXICO 8/501						
APPLIC	CATION FOR AUTHORIZATION TO INJECT						
Ι.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Secondary Recovery Pressure Maintenance Secondary Recovery Pressure Maintenance Secondary Recovery Secondary Recovery Pressure Maintenance Secondary Recovery Secondary Recovery Pressure Maintenance Secondary Recovery						
II.	Operator: Yates Petroleum Corporation						
	Address: 105 South Fourth Street						
	Contact party: Brian Collins Phone: (505) 748-1471						
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? \square yes \square no If yes, give the Division order number authorizing the project						
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:						
	 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/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: Brian Collins Title						
	Signature: Date: August 28, 1995						

* 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

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, 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 amplications within 15 days from the date this application was mailed to them.

C-108

Application For Authorization To Inject Yates Petroleum Corporation Gunnison SWD #1 J 34-25S-31E Eddy County, New Mexico

I. The purpose of completing this well is to make a disposal well for produced Delaware Sand water into the Delaware Sand formation.

Yates Petroleum plans to convert this well to a water disposal well into the Delaware Sand.

II. Operator: Yates Petroleum Corporation

105 South Fourth Street

Artesia, NM 88210

Brian Collins (505) 748-4182

- III. Well Data: See Attachment A
- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B
- VI. No wells within the area of review penetrate the proposed injection zone.
- VII. 1. Proposed average daily injection volume approximately 500 BWPD Maximum daily injection volume approximately 5,000 BWPD.
 - 2. This will be a closed system.
 - Proposed average injection pressure--unknown Proposed maximum injection pressure--883 psi.
 - 4. Sources of injected water would be produced water from the Delaware Sand. (See Attachment C)
 - 5. See Attachment C.
- VIII. 1. The proposed injection interval is the portion of the Delaware Sand formation consisting of porous Sandstone from estimated

depths: 4415'-4665'

4878'-5136' 5266'-5510'

5638'-5800'

- 2. Possible Fresh water zones overlie the proposed injection formations at depths to approximately 634' feet. There are no fresh water zones underlying the formation.
- IX. The proposed disposal interval will be acidized with 7-1/2% HCL acid and/or fraced with crosslinked gelled water and 20/40 Sand.
- X. Logs were filed at your office when the well was drilled.
- XI. No windmills exist within a one mile radius of the subject location.
- XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.
- XIII. Proof of Notice
 - A. Certified letters sent to the surface owner and offset operators-attached. (Attachment D)
 - B. Copy of legal advertisement attached. (Attachment E)
- XIV. Certification is signed.

Yates Petroleum Corporation Gunnison SWD #1 J 34-T25S-R31E

Attachment A Page 1

III. Well Data

A. 1. Lease Name/Location: Gunnison SWD #1 J 34-T25S-R31E 1880'FSL & 2180' FEL

- 2. Casing Strings:
 - a. Present Well Condition
 11 3/4", 42 ppf, H40 @ 634' w/425 sx
 8 5/8", 32#, K55 @ 4209' w/1518 sx
 25 sx 0-50'
 75 sx 450'-713'
 200 sx 4000'-4300'
 100 sx 7980'-8280'
 TD @ 9400'

Present Status: Drilled and abandoned by Enron 2-7-94.

3. Proposed well condition:

Option 1:

100 sx cement plug 7980'-8280' Casing same as above except 5 1/2", 15.5#, J55 @ 6000' with sufficient cement to bring TOC to 4100'.

Option 2:

Casing same as above except 5 1/2", 15.5# & 17#, J55 @ 8400' with sufficient cement to bring TOC to 4100'.

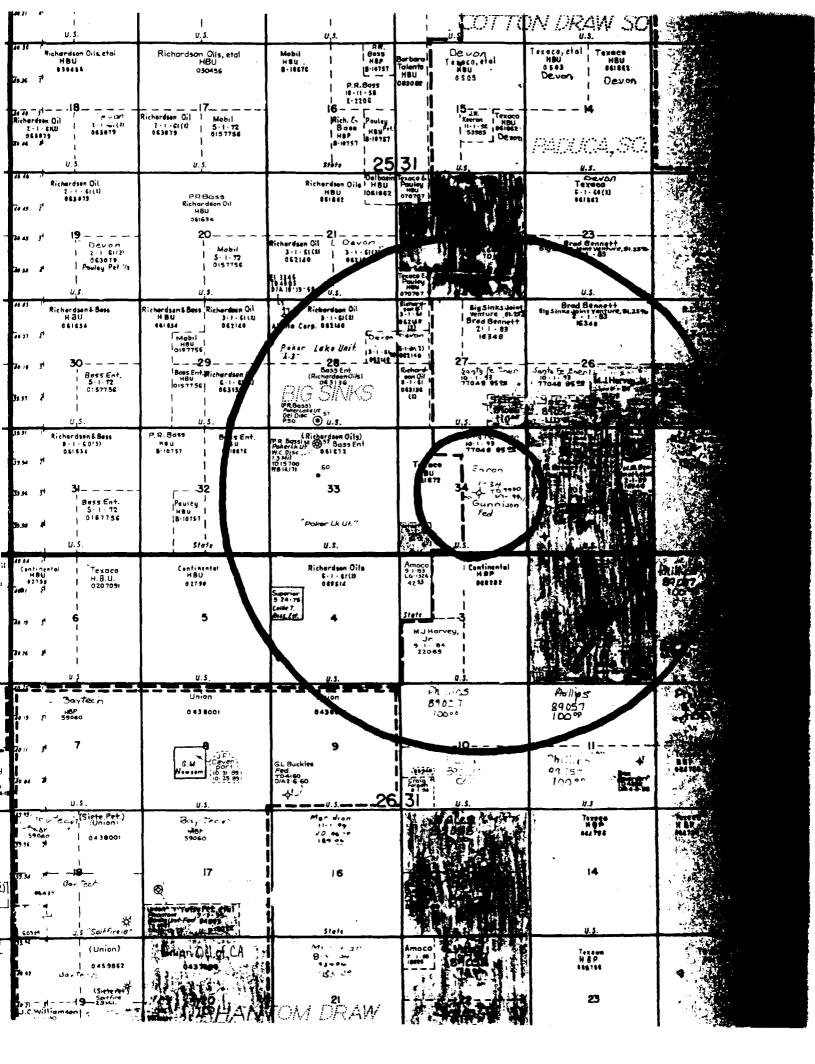
3 1/2", 9.3, J55 or 2 7/8", 6.5, J55 plastic-coated injection tubing @ 4350'.

- Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at 4350'.
- B. 1. Injection Formation: Delaware Sand
 - Injection Interval will be through perforations from approximately 4415'-5800'.
 - Well was originally drilled as an exploratory well. Well will be Delaware Sand water disposal well (4415'-5800') when work is completed.
 - 4. Perforations: None
 - Next higher (shallower) oil or gas zone within 2 miles--None
 Next lower (deeper) oil or gas zone within 2 miles--Delaware Sand

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WELL NAME: Gunnison SWD#1	FIELD AREA: WC
LOCATION: 1880'FSL, 2180'FEL J- 34	- 255 - 31e Eddy NM
GL: 3340' ZERO: 16.7 ' AGL:	. /
KB:' ORIG. DRLG./COMPL. DATE:	CASING PROGRAM: '
COMMENTS:	SIZE/WT./GR./CONN. DEPTH SET 1/1/4 42 H40 57 634'
	85/8 32 KSS STC 42091
	51/2 15.5 755 LTC 600'
	3/2 9.3 JSS EVE Plastic Lined 4350"
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WELL NAME: Gunnison SWD#1	FIELD AREA: WC
LOCATION: 1880'FSL, 2180'FEL J- 34-	255-31e Eddy NM
GL: <u>3340'</u> ZERO: <u>16.7</u> ' AGL:'	./
KB:' ORIG. DRLG./COMPL. DATE:	CASING PROGRAM: '
COMMENTS:	SIZE/WT./GR./CONN. DEPTH SET
	1/34 42 H40 STC 634' 85% 32 K55 STC 4209'
	51/2 17.15.5 JSS LTC 8400'
	3/2 9.3 J55 EVE Mastic Lined 4350'
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YATES PETROLEUM CORPORATION GUNNISON SWD #1

PROPOSED SALT WATER DISPOSAL SEC. 34-T25S-31E 1880'FSL & 2180'FEL EDDY COUNTY, NEW MEXICO

ATTACHMENT B

Yates Petroleum - Almost Texas Unit #1 (Unit N) 2-26S-31E Eddy Co., NM

8-7-95

bbls.	Initial	fluid	level	at	surface.	Swabbed	as
follows	s:						

TIME	${ t FL}$	#SR	OIL	WATER
4 PM	1500'	4		22
5 PM	1800'	4		25
6 PM	1800'	4		20
7 PM	1800'	4	1%	25
8 PM	2500'	4	skim	20
9 Pm	2500'	4	skim	18
10 PM	2500'	4	skim	20
11 Pm	2500'	4	skim	19
12 AM	2500'	4	skim	20
1 AM	2500'	4	skim	17
2 AM	2500'	4	skim	19
3 AM	2500'	4	skim	20
4 AM	2500'	4	skim	21
5 AM	2500'	4	skim	18
6 AM	2500'	4	skim	17

Total recovered 301 bbls water, 166 bbls water overload. Continued swab. DC \$17,356

8-6-95 Continued swabbing as follows:

TIME	${ t FL}$	#SR	OIL	WATER
7 AM	2800'	4	0	19
8 AM	3000'	3	0	15
9 AM	3200'	3	0	14
10 AM	3400'	3	0	14
11 AM	3400'	3	0	14
12 P M	3400'	3	0	15
1 PM	3400'	3	0	14
2 PM	3400'	3	0	14
3 PM	3400'	3	0	16
4 PM	3400'	3	0	14
5 P M	3400'	3	0	16
6 PM	3400'	3	0	16
7 PM	3400'	3	0	15
8 PM	3400'	3	0	16
9 P M	3400'	3	0	14
10 P M	3400'	3	0	14
11 PM	3500'	3	0	15
12 AM	3500'	3	0	16
1 AM	3500'	3	0	14
2 AM	3500'	3	0	15
3 AM	3500'	3	0	15
4 AM	3500'	3	0	14
5 AM	3500'	3	0	16
6 AM	. 3500'	3	0	16

Total recovered for well 662 bbls water, 527 bbls water overload. Continued swabbing. DC \$2297

Continued swabbing til Noon. Swabbed as follows: TIME ${ t FL}$ #SR OIL WATER 7 AM 8 AM 3500' 3 0 3500' 3 15 0 3500' 9 **AM** 3 0 16 3500' 10 AM 3 0 16 11 AM י3500' 3 0 15 3500' 3 0 16 Noon

Total recovered for day 93 bbls water. Total recovered for well 755 bbls water, 620 bbls water overload. Shut well in. Prep to squeeze. DC \$949

WATER ANALYSI			
Sp. Gravity	1.150 @ 72	Resistivity	.025 @ 75
рн	7.51	Iron	50
Sulfate	945	Calcium	12,174
Tot Hardness	33,043	Magnesium	634
Bicarbonate	361	Chloride	132,144
CALC	217,377	Sod & Pot	95,866
Tot Dis Sol	262,360	H2S	nil
KCL	450		

ATTACHMENT D

4**



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

RANDY G. PATTERSON SECRETARY DENNIS G. KINSEY

S. P. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES

PRESIDENT

PEYTON YATES

EXECUTIVE VICE PRESIDENT

September 1, 1995

Tim Gum State of New Mexico OIL CONSERVATION DIVISION P. O. Drawer DD Artesia, NM 88210

Dear Mr. Gum,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4182.

Sincerely,

Brian Collins

Petroleum Engineer

BC/th



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

S. P. YATES CHAIRMAN OF THE BOARD

September 1, 1995

Bureau of Land Management P. O. Box 1778 Carlsbad, NM 88220

Ladies & Gentlemen,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

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SECRETARY

S. P. YATES

DENNIS G. KINSEY

September 1, 1995

Texaco, Inc. P. O. Box 3900 Midland, TX 79702-3900

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

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Petroleum Engineer

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S. P. YATES

DENNIS G. KINSEY TREASURER

September 1, 1995

Santa Fe Energy 500 West Illinois Suite 500 Midland, TX 79701-4319

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

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BC/th -



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SECRETARY

DENNIS G. KINSEY
TREASURER

S. P. YATES

September 1, 1995

Phillips Petroleum P. O. Box 1967 Houston, TX 77251-1967

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4182.

Sincerely,

Brian Collins

Petroleum Engineer

Prin Collin

BC/th



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210 TELEPHONE (505) 748-1471

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SECRETARY
DENNIS G. KINSEY

S. P. YATES

September 1, 1995

Conoco, Inc. 10 Desta Drive Suite 100W Midland, TX 79705

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

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S. P. YATES

September 1, 1995

M. B. Bennett, Inc.P. O. Box 2062Midland, TX 79702

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

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Sincerely,

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Petroleum Engineer

This lestin

BC/th



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SECRETARY
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TREASURER

S. P. YATES CHAIRMAN OF THE BOARD

JOHN A. YATES

PRESIDENT

PEYTON YATES

EXECUTIVE VICE PRESIDENT RANDY G. PATTERSON

TELEPHONE (505) 748-1471

September 1, 1995

Amoco P. O. Box 591 Tulsa, OK 74102

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Gunnison SWD #1 located in unit J of Section 34-T25S-R31E, Eddy County, New Mexico.

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Sincerely,

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Petroleum Engineer

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DENNIS G. KINSEY
TREASURER

September 1, 1995

Buck Jackson Trust c/o B&B Cattle Company 1420 Airway #24 El Paso, TX 79925

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DENNIS G. KINSEY TREASURER

S. P. YATES CHAIRMAN OF THE BOARD

September 1, 1995

Artesia Daily Press 503 W. Main Artesia, NM 88210

Ladies & Gentlemen,

Yates Petroleum Corporation desires to place a public notice in your newspaper for one day. The notice is enclosed.

Please place this notice in your paper on Sunday, September 3, 1995 and forward a copy of it along with your billing as soon as possible to:

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210 Attn: Brian Collins

If you have any questions, please contact me at (505) 748-4182.

Sincerely,

Brian Collins

Petroleum Engineer

Pari Collini

BC/th

Attachment E

Legal Notice

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the Gunnison SWD #1 located 1880'FSL & 2180' FEL of Section 34, Township 25 South, Range 31 East of Eddy County, New Mexico, will be used for saltwater disposal. Disposal waters from the Delaware Sand will be reinjected into the Delaware Sand at a depth of 4415'-5800' with a maximum pressure of 883 psi and a maximum rate of 5,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting Brian Collins at (505) 748-4182.