

PKR10309033148
D-122
WFX

Revised 4-1-98
4/12/03

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? X Yes No

II. OPERATOR: RAY WESTALL

ADDRESS: Box 4 Loco Hills, NM 88255

CONTACT PARTY: RANDALL HARRIS PHONE 505 677 2370

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.

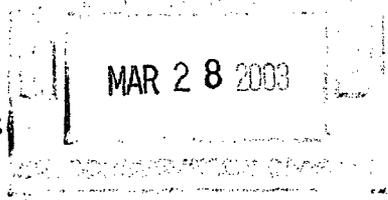
IV. Is this an expansion of an existing project? X Yes No
If yes, give the Division order number authorizing the project: R-3226

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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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: RANDALL HARRIS TITLE: GEOLOGIST

SIGNATURE: [Signature] DATE: 3/21/03

* 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 circumstances 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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

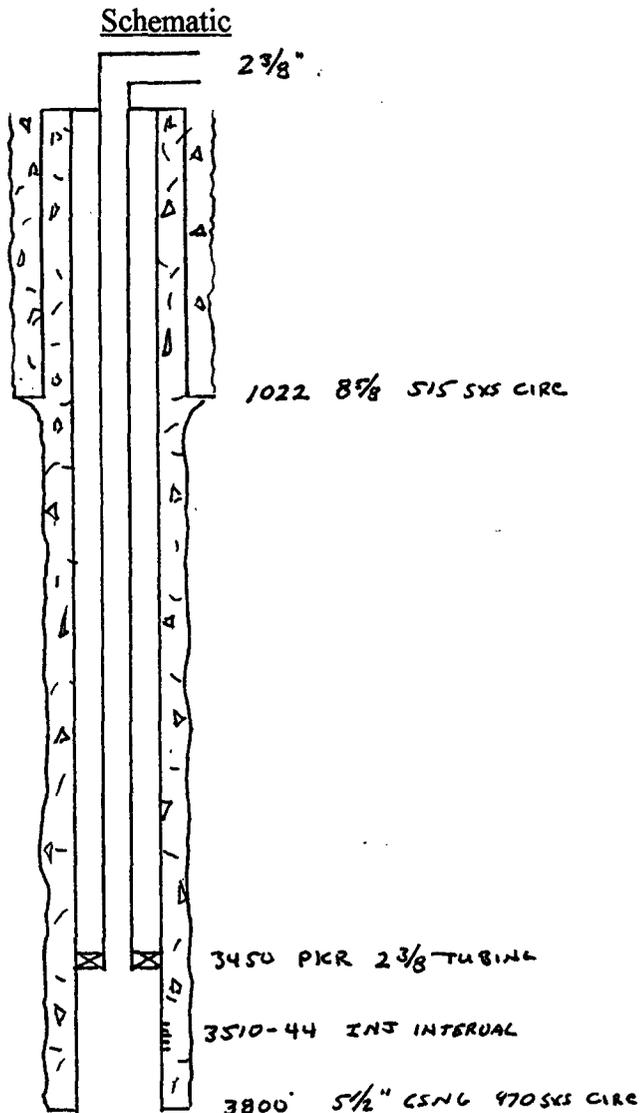
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

INJECTION WELL DATA SHEET

RAY WESTALL
 TAYLOR FEDERAL NO. 20
 1300' FNL & 2620' FWL SECTION 13, T18S-R31E

(30-015-31613)



Tubular Data

Surface Casing

Size 8 5/8" 24# Cemented with 515 sxs
 TOC Circulated.
 Hole size 12 1/4" Total depth 1022'

Long String

Size 5 1/2" 15.5# Cemented with 970 sxs
 TOC Circulated
 Hole size 7 7/8"
 Total depth 3800'

Injection interval

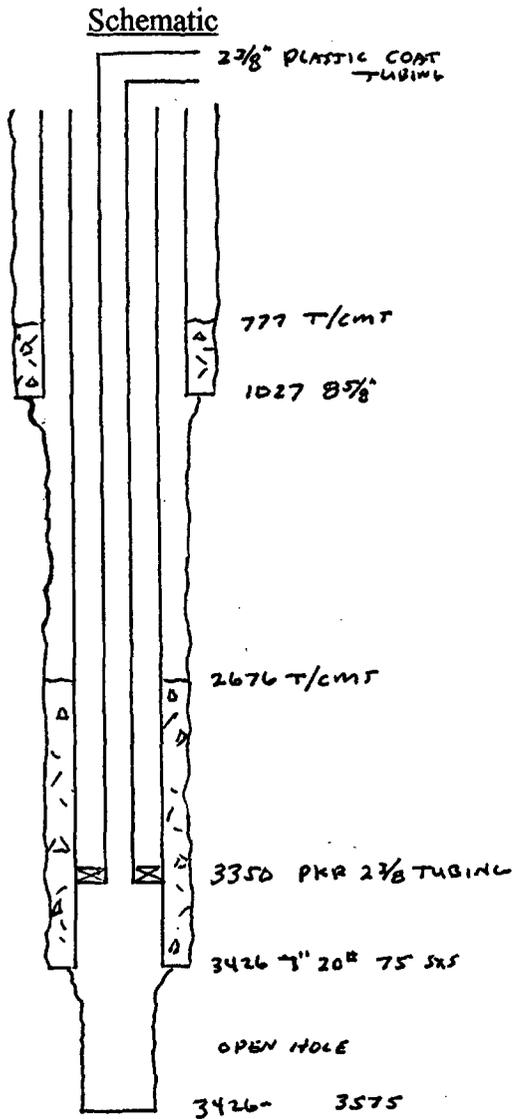
3510' feet to 3544' perforated

Tubing size 2 3/8" lined with Plastic set in a Baker Loc-set packer at 3450 feet

Other Data

1. Name of the injection formation. Queen
2. Name of field or pool. Shugart Y-7rv-Qn-Gb
3. Is this a new well drilled for injection? No
 If no, for what purpose was the well originally drilled? Oil production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug (s) used. No other intervals
5. Give the depth to and name of any overlying or underlying oil or gas zones in this area.

RAY WESTALL
TAYLOR FEDERAL NO. 11
660' FNL & 1980 FEL SECTION 13, T18S-R31E



Tubular Data

Surface Casing

Size 8 5/8" 24# Cemented with 50 sxs
TOC 777 feet determined by Calc.
Hole size 10" Total depth 1027'

Long String

Size 7" 20# Cemented with 75 sxs
TOC 2676 feet determined by Calc.
Hole size 7 3/4"
Total depth 3426'

Injection interval

3426 feet to 3575 feet open hole

Tubing size 2 3/8" lined with Plastic set in a Baker Loc-set packer at 3350 feet

Other Data

1. Name of the injection formation. Queen
2. Name of field or pool. Shugart Y-7rv-Qn-Gb
3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug (s) used. No other intervals
5. Give the depth to and name of any overlying or underlying oil or gas zones in this area.

ATTACHMENT V

Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.

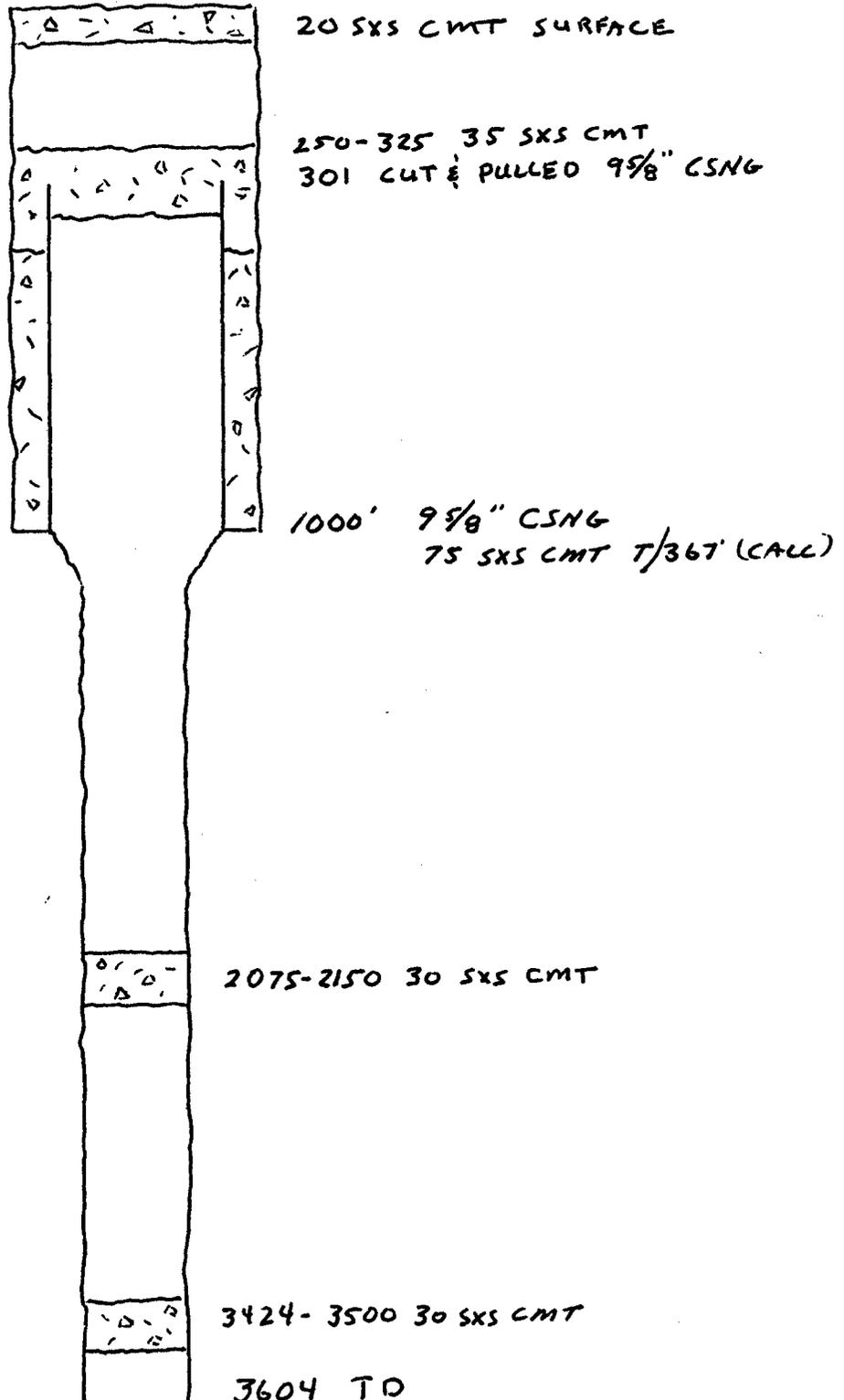
ATTACHMENT VI

Data on all wells of public record within the area of review. Included are schematics of the plugged wells that penetrated the proposed injection zone within the area of review.

Well Name	Location	Spud Date	Sur.Casing	Int. Casing	Prod. Casing	Completion
Ray Westall Taylor Unit #1	NESE Sec. 12 T18S-R31E	4/22/69	8 5/8" @ 750' 350 sxs Circ.		4 1/2" @ 3650 200 sxs TOC 2532' Calc.	3594-3600 Shugart Y-7R-Q-GB Oil
Ray Westall Taylor Unit #3	NESW Sec. 12 T18S-R31E	7/17/48	8 5/8" @ 973' 50 sxs TOC 648' Calc.		7" @ 3435' 100 sxs TOC 1355' Calc.	3549-3588 Shugart Y-7R-Q-GB Oil
Ray Westall Taylor Unit #5	SWSW Sec. 23 T18S-R31E	9/30/38	8 5/8" @ 985' 50 sxs TOC 660' Calc.		7" @ 3435' 100 sxs TOC 1355' Calc.	3535-3549' Shugart Y-7R-Q-GB Oil
Ray Westall Taylor Unit #6	SWSW Sec. 12 T18S-R31E	12/10/49	8 5/8" @ 1005' 50 sxs TOC 680' Calc.		7" @ 3419 100 sxs TOC 1339' Calc.	3551-3567 Shugart Y-7R-Q-GB Oil
Ray Westall Taylor Unit #7	SESW Sec. 12 T18S-R31E	5/1/47	8 5/8" @ 1010' 50 sxs TOC 685' Calc.	7" @ 3448' 100 sxs TOC 1368' Calc.	4 1/2 Liner 3370-3595' Circ cmt	3469-70 Shugart Y-7R-Q-GB INJ (1966)
Ray Westall Taylor Unit #8	SWSE Sec.12 T18S-R31E	7/19/47	8 5/8" @ 1010' 50 sxs TOC 685' Calc.		7" @ 3402 100 sxs TOC 1322' Calc.	3535-3575' Shugart Y-7R-Q-GB Oil
Ray Westall Taylor Unit #9	SESE Sec.12 T18S-R31E	5/3/49	8 5/8" @ 1060' 120 sxs TOC 280' Calc.		7" @ 3409 100 sxs TOC 1329' Calc.	3569-3584' Shugart Y-7R-Q-GB INJ
Ray Westall Taylor Unit #12	NENW Sec. 13 T18S-R31E	4/29/48	8 5/8" @1016' 50 sxs TOC 961' Calc.		7" @ 3400' 100 sxs TOC 1320' Calc.	3535-3565' Shugart Y-7R-Q-GB Oil

Well Name	Location	Spud Date	Sur.Casing	Int. Casing	Prod. Casing	Completion
Ray Westall Taylor Unit #13	NWNW Sec. 13 T18S-R31E	2/7/48	8 5/8" @1018' 120 sxs TOC 278' Calc.		7" @ 3455' 100 sxs TOC 1375' Calc.	3525-3562' Shugart Y-7R-Q-GB INJ
Ray Westall Taylor Unit #14	SWNW Sec. 13 T18S-R31E	8/28/48	8 5/8" @918' 80 sxs TOC 398' Calc.		7" @ 3403' 100 sxs TOC 1323' Calc.	3526-3547' Shugart Y-7R-Q-GB Oil
Ray Westall Taylor Unit #15	SEnw Sec. 13 T18S-R31E	8/29/54	8 5/8" @ 984' 65 sxs TOC 561' Calc.		7" @ 3408' 100 sxs TOC 1328' Calc.	3408-3558' Shugart Y-7R-Q-GB Oil
Ray Westall Taylor Unit #17	NWSE Sec. 12 T18S-R31E	3/8/91	8 5/8" @ 427' 385 sxs Circ.		5 1/2" @ 6000' 1623 sxs TOC Surface	4258-4302' Abandon 3586-3596 Shugart Y-7R-Q-GB Oil
Ray Westall Taylor Unit #19	SEnw Sec. 12 T18S-R31E		8 5/8" @ 936' Circ.		5 1/2" @ 3740' 650 sxs TOC 420'	3542-3562' Shugart Y-7R-Q-GB Oil

MAXWELL OIL CO.
A.C. TAYLOR 'B' #4
1980' FSL & 660' FWL
SEC 13 T18S-R31E
EDDY Co. NEW MEXICO
D & A 9-59



ATTACHMENT VII

1. Proposed average of 150 bbls per day and maximum of 300 bbls per day of injected fluids.
At a rate of one bbl per minuet.
2. System will be closed.
3. Average anticipated pressure of 450 psi and a maximum of 600 psi.
4. Source of produced water is reinjected produced water of the same formation.

ATTACHMENT VIII

The proposed injection zone is a fine grained sand in the Queen Formation. It has an average thickness of 20 feet. There is possible drinking water overlying the injection in the surface sands at a depth of 0-250'. There is no known source underlying the injection interval.

ATTACHMENT IX

No proposed stimulation.

ATTACHMENT XI

There is no active fresh water wells within one mile.

ATTACHMENT XII

All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are: H.E. Yates, Santa Fe Energy, Yates Energy, BP Amoco, Cimarex, EOG and Burlington. Each of the operators were provided a copy of our application by certified mail. Proof of notice is enclosed. The surface owner is the United States of America, BLM.

PROOF OF PUBLICATION

Proof of publication will be from the Artesia Daily Press and will be forwarded.

Copies of this application have been sent to:

Certified Mail #

H. E. Yates
Box 1933
Roswell, NM 88202-1933

7000 0600 0024 2324 0936

B.P. Amoco
Box 1610
Midland, TX. 79702-1610

7000 0600 0024 2324 0929

Santa Fe Energy
550 W. Texas Ave.
Ste. 1330
Midland, TX. 79701

7000 0600 0024 2324 0912

Cimarex Energy
1579 E. 21st St.
Tulsa, OK. 74114

7000 0600 0024 2324 1094

Yates Energy
Box 2323
Roswell, NM 88202-2323

7000 0600 0024 2324 1148

EOG Resources
Box 2267
Midland, Tx. 79702

7000 0600 0024 2324 1162

Burlington Resources
Box 51810
Midland, TX. 79710-1810

7000 0600 0024 2324 1155

BLM
620 E. Greene
Carlsbad, NM 88202

NMOCD
1301 W. Grand Ave.
Artesia, NM 88210

Affidavit of Publication

NO. 18021

STATE OF NEW MEXICO

County of Eddy:

Gary D. Scott being duly

sworn, says: That he is the Publisher of The

Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and county and state, and that the here to attached

Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 consecutive weeks/days on the same

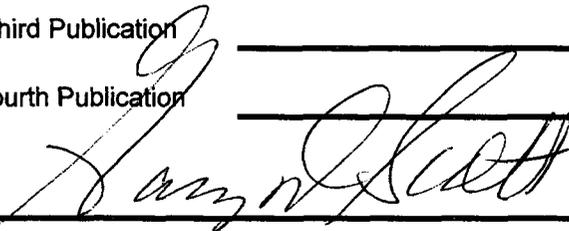
day as follows:

First Publication March 18 2003

Second Publication _____

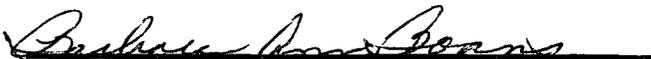
Third Publication _____

Fourth Publication _____



Subscribed and sworn to before me this

18th day of March 2003


Notary Public, Eddy County, New Mexico

My Commission expires September : 23, 2003

Copy of Publication:

LEGAL NOTICE

Ray Westall-Operator, P.O. Box 4, Loco Hills, New Mexico 88255 Phone (505)677-2370. Contact party for Ray Westall-Operator is Randall Harris, is seeking administrative approval from the New Mexico Oil Conservation Division to utilize a well located 1300' FNL & 2620' FWL, Section 13, Township 18 South, Range 31 East, Eddy County, New Mexico, known as the Taylor Federal #20 for water injection. Proposed injection is in the Queen formation through perforations 3510-3544 feet. Expected maximum injection rate of 300 bbls per day at 500 psi. Interested parties must file objection or requests for hearing with the Oil Conservation Division, 1220 So. St. Francis Drive, Santa Fe, NM 87505 within 15 days of the notice. Published in the Artesia Daily Press, Artesia, N.M March 18, 2003. Legal 18021