

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: SOUTHWEST ROYALTIES, INC.

Address: P.O. BOX 11390 MIDLAND, TX 79702

Contact party: James Blount Phone: 1-800 433-7945 or 915 686-9927

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 NA.

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: JAMES BLOUNT Title: AREA SUPERVISOR

Signature: James Blount Date: 9-9-97

* 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.

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.

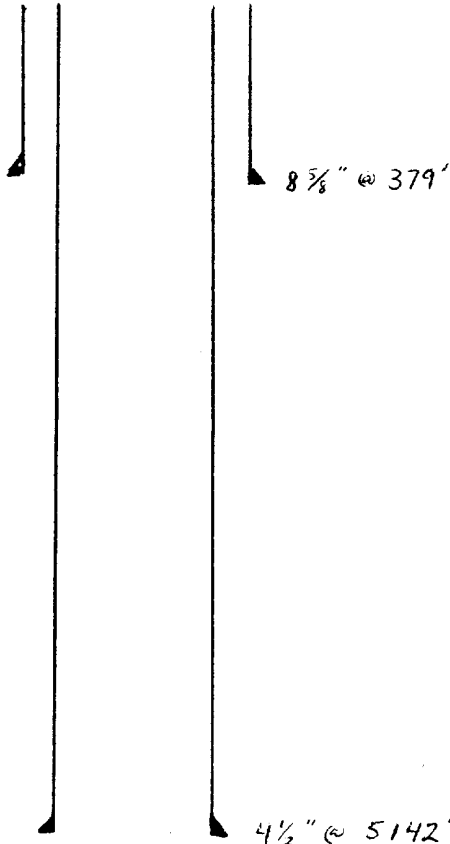
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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

INJECTION WELL DATA SHEET

INJECTION WELL DATA SHEET

SOUTHWEST ROYALTIES, INC.		AMMONS MADERA		30 025 23992	
OPERATOR		LEASE			
1	1980' FSL & 990' FWL	15	26S	33E	
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE	

SchematicTabular DataSurface Casing

Size 8-5/8 " Cemented with 250 ex.
TOC Surf. feet determined by Circ.
Hole size 12-1/4"

Intermediate Casing

Size " Cemented with ex.
TOC feet determined by
Hole size

Long string

Size 4-1/2 " Cemented with 200 ex.
TOC 4035 feet determined by CALC
Hole size 7-7/8"
Total depth 5150'

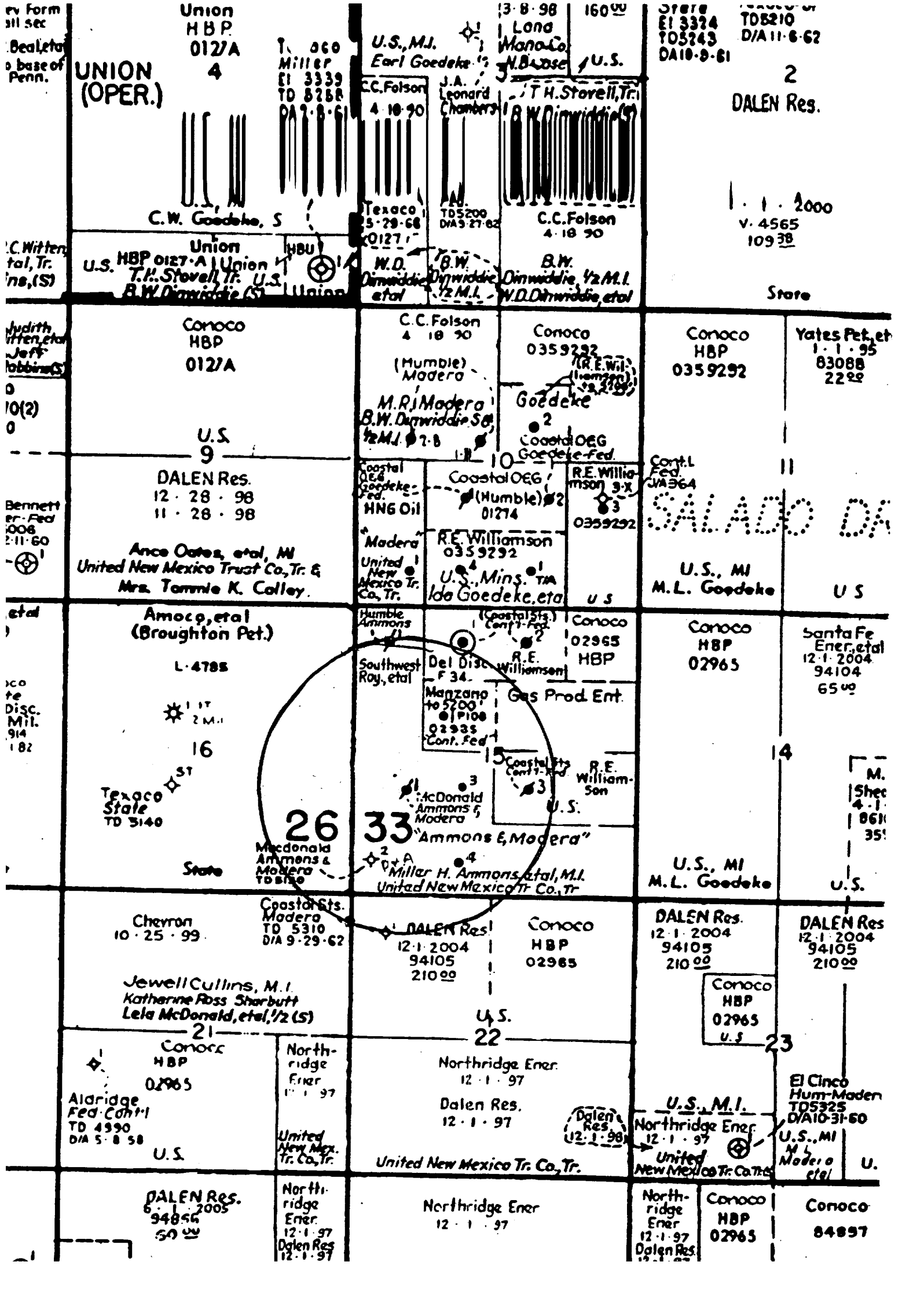
Injection interval

5002 feet to 5023 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with Plastic Coated set in a
(material)
Baker Model AD-1 (Tension) packer at 4950 feet
(brand and model)
(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Delaware
- Name of Field or Pool (if applicable) Salado Draw
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Oil
- 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 Perforations
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. No Overlying or Underlying Oil & Gas Zones.



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Penn.

UNION
(OPER.)

Union
HBP
012/A
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T. 060
Miller
EI 3339
TD 8268
DA 7-8-61

U.S., M.I.
Earl Goedeke
C.C. Folsom
4-10-90

13-8-98
Lona
Mano Co.
N.B. Rose / U.S.

State
EI 3324
105243
DA 10-8-61

2
DALEN Res.

C.W. Goedeke, S

Texaco
25-29-68
K0127

TDS200
DA 9-27-62

C.C. Folsom
4-10-90

1-1-2000
V. 4565
10938

C. Witten
tal, Tr.
ns, (S)

Union
U.S. HBP 0127-A
T.H. Stovell, Jr.
B.W. Dimmickie (S)

W.D.
Dimmickie, et al

B.W.
Dimmickie, et al

B.W.
Dimmickie, et al

State

Judith
tiffen, et al
Jeff
Robbins

Conoco
HBP
012/A

C.C. Folsom
4-10-90
(Humble)
Madera

Conoco
0359292
(R.E. Wil-
liamson)

Conoco
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Yates Pet, et
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DALEN Res.
12-28-98
11-28-98

M.R. Madera
B.W. Dimmickie, et al
1/2 M.I.

Goedeke
2
Coastal OEG
Goedeke-Fed.

Cont. L
Fed.
DA 364

SALADO DA

Bennett
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006
2-11-60

Anco Oates, et al, MI
United New Mexico Trust Co., Tr. &
Mrs. Tammie K. Colley.

Coastal
OEG
Goedeke-Fed.
MNG Oil
Madera
United
New
Mexico Tr.
Co., Tr.

Coastal OEG
(Humble)
01274
R.E. Williamson
0359292
U.S., Mins. TM
Ida Goedeke, et al

R.E. William-
son 3-X
0359292
U.S.

U.S., MI
M.L. Goedeke

U.S.

etal
ico
fe
Disc.
Mil.
914
182

Amoco, et al
(Broughton Pet.)

L-4785

1 IT
2 M.I.

16

Texaco
State
TD 3140

26
Macdonald
Ammons &
Madera
TD 5130

Humble
Ammons
Southwest
Roy, et al

(Coastal Sts.)
Conf. Fed.
Del Disc
F 34.
Manzano
to 5200
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02935
Conf. Fed.

Conoco
02965
HBP

Conoco
HBP
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Santa Fe
Ener, et al
12-1-2004
94104
6500

33
"Ammons & Madera"
Miller H. Ammons, et al, M.I.
United New Mexico Tr. Co., Tr.

Gas Prod. Ent.
R.E. William-
son
U.S.

U.S., MI
M.L. Goedeke

M.
Shee
4-1-
861
351

U.S.

Chevron
10-25-99

Coastal Sts.
Madera
TD 5310
DA 9-29-62

DALEN Res.
12-1-2004
94105
21000

Conoco
HBP
02965

DALEN Res.
12-1-2004
94105
21000

DALEN Res.
12-1-2004
94105
21000

Jewell Cullins, M.I.
Katherine Ross Sharbutt
Lela McDonald, et al, 1/2 (S)

21

Conoco
HBP
02965

Alaridge
Fed. Conf.
TD 4990
DA 5-8-58

U.S.

North-
ridge
Ener
12-1-97

United
New Mex.
Tr. Co., Tr.

Northridge Ener.
12-1-97

Dalen Res.
12-1-97

United New Mexico Tr. Co., Tr.

Dalen Res.
12-1-98

U.S., M.I.
Northridge Ener.
12-1-97

United
New Mexico Tr. Co., Tr.

El Cinco
Hum-Maden
TD 5325
DA 10-31-60

U.S., MI
M.L.
Madera
et al

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DALEN Res.
12-1-2005
94856
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North-
ridge
Ener.
12-1-97
Dalen Res
12-1-97

Northridge Ener
12-1-97

North-
ridge
Ener
12-1-97
Dalen Res

Conoco
HBP
02965

Conoco
84897

SOUTHWEST ROYALTIES

PROJECT MADERA FED #1
660' FNL + 660' FWL

PAGE _____ OF _____
BY _____ DATE _____

SEC 22, T26 S, R33 E

P + A'd 12/63

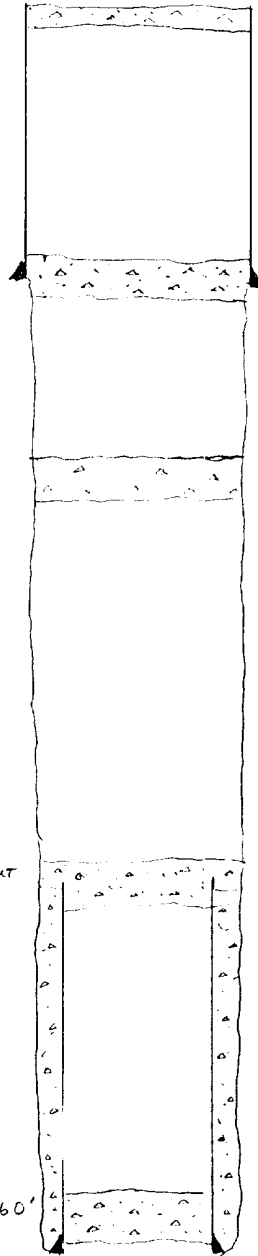
10 SX SURF PLUG

100 SX PLUG 300-400'

25 SX PLUG @ 1233'

CSG CUT OFF @ 4400'
w/25 SX PLUG ACROSS CUT

40 SX PLUG 4940-5260'



8 5/8" @ 356' CMTD w/240 SX

4 1/2" @ 5276' CMTD w/150 SX

SOUTHWEST ROYALTIES

PROJECT CONOCO FED #3
1980' FEL + 1980' FSL

PAGE _____ OF _____
BY _____ DATE _____

SEC 15, T26S, R33E

P+A'd 2/65

10 SX SURF PLUG

25 SX PLUG @ 400'

25 SX PLUG @ 3513'

8 5/8" @ 355' CMTD w/ 200 SX

CSG COLLAPSED/PARTED @ 3513'

PERFS: 5031-34'

4 1/2" @ 5300' CMTD w/ 150 SX

SOUTHWEST ROYALTIES

PROJECT AMMONS MADERA #2
660' FSL + 330' FWL

PAGE _____ OF _____
BY _____ DATE _____

SEC 15, T26S, R33E

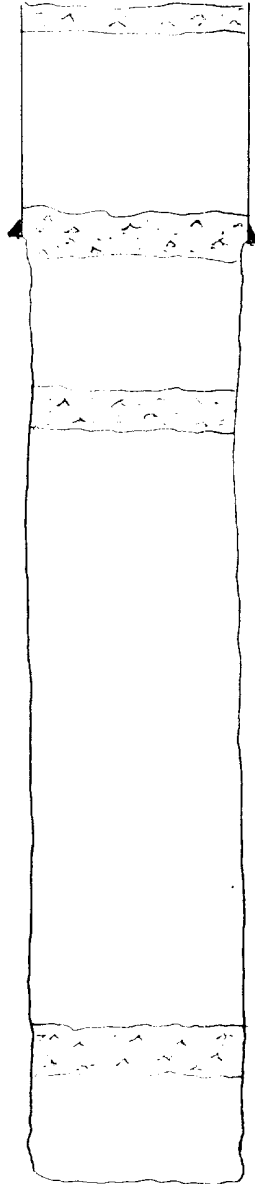
D + A'd 5/72

5 SX PLUG 0-10'

35 SX PLUG 300-400'

35 SX PLUG 820-920'

35 SX PLUG 4950-5050'



8 5/8" @ 375 CMTD w/ 150 SX

TD: 5150'

VII Proposed Operation

This well will be used to inject produced water from other wells in the Salado Draw Field lease via a closed pressure maintenance system.

Proposed average injection rate & pressure: 400 BWPD @ 600 psi.
Proposed maximum injection rate & pressure: 1000 BWPD @ 650 psi.

VIII Geological DATA

This produced water will be injected into the Delaware formation which is located from 5002' to 5023'. The Delaware formation consists mostly of sand.

The source of underground drinking water in the area is the Ogallala formation (base at \pm 300').

IX Proposed Stimulation

We will clean out the wellbore to PBTD @ 5100'. Set Baker Model AD-1 packer at 4950' and acidize with 1000 gallons acid if necessary.

XII I have examined available geologic & engineering data and find no evidence of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water.

Mailing List

Surface Owners

Ms. Catherine R. Madera
8612 Plymouth Rock NE
Albuquerque, NM 87109

Ms. Ellen Madera
P.O. Box 1686
Carlsbad, NM 88221

Norwest Investment Management & Trust
Attn: Sylvian Gillespie
P.O. Box 1977
Roswell, NM 88202

Offset Operators

Conoco
10 Desta Dr., Ste. 100W
Midland, TX 79705-4500

Altura Energy, Ltd.
P.O. Box 4072
Odessa, TX 79760

Dalen RES
6688 N. Central Expressway Ste. 1000
Dallas, TX 75206-3922

R.E. Williamson
P.O. BOX 994
Midland, TX 79701

MANZANO
P.O. Box 2107
Roswell, NM 88202-2107

A COPY OF THE APPLICATION TO INJECT FOR THE AMMONS MADERA #1 WAS
MAILED TO THE ABOVE ON 9-9-97.


BEVERLY HATFIELD
REGULATORY COORDINATOR

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs Daily News-Sun, a
daily newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of 1
_____ weeks.

Beginning with the issue dated

September 12 1997
and ending with the issue dated

September 12 1997

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 12th day of

September 1997

Godi Henson

Notary Public.

My Commission expires
October 18, 2000
(Seal)

This newspaper is duly qualified
to publish legal notices or adver-
tisements within the meaning of
Section 3, Chapter 167, Laws of
1937, and payment of fees for
said publication has been made.

LEGAL NOTICE
September 12, 1997
APPLICATION FOR
AUTHORIZATION TO
INJECT

Southwest Royalties, Inc.,
PO Box 11390, Midland, TX.
79702, (915) 686-9927, is
seeking approval from the
New Mexico Oil Conservation
Division to inject in the Am-
mons Madera #1, salt water
for pressure maintenance lo-
cated at 1980 FNL & 990
FWL Sec. 15, T26S, R33E,
Lea County, New Mexico. The
proposed injection zone is the
Delaware formation of the
Salado Draw Field through
perforations from 5002-23'.
Southwest Royalties, Inc., in-
tends to inject a maximum of
1,000 BWPD @ 650 psi.

Interested parties must file
objections or requests for
hearing with the Oil Conser-
vation Division: PO Box 2088,
Santa Fe, New Mexico, 87501
within 15 days.
#15413

01101469000 01510919

Southwest Royalties, Inc.
P.O. Box 11390
a/c# 476043
Midland, TX 79702