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ENERG	Y AND MINERALS DEPAR MENT POST OFFICE BOX 2008 STATE LAND OFFICE BUX.DING SANTA FE NEW MEXICO 87501
APPLICA	TION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance Dinnosal Storage Application qualifies for administrative approval? Eyes no
II.	Operator: DETRUCT ROBETIES TRC.
	Address: 16 PARCER 11346 PHOCANN, TX 79702
	Contact party: JAmes Discuss Phone: 1-800-433-7945
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? \square yes \square no $\cancel{R}3229 + \cancel{R}-3033$. If yes, give the Division order number authorizing the project \square
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.
VII.	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. Attach data on the proposed operation, including: 1. Proposed average and maximum daily rate and volume of the table of the system is open or closed; 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. —	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.

- injection interva IX. Describe the prop
- Attach appropriate with the Division
- XI. Attach a chemical available and prolocation of wells
 - 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.
- Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIII.
- XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. JAMES AKEH DICUNT DUPCRVISER Title Name: Signature: Date:

* 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:
 - 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 its injurious the date this application was mailed to them.

INJECTION WELL DATA SHEET

Schematic Surface Casing Size 858 "Camented with 675 100 Surface Feet determined by Wisual Hole size 124" Intermediate Casing Size 5/2 "Camented with 560 Toc Feet determined by Hole size 778" Total depth 4317' Injection interval 4239' Feet to 4282 (perforated)or open-hole, indicate which) CBL TOC 2150' CBL TOC	Schematic Surface Casing Size S-18 Comented with 67	33-E
Surface Coming Size 85/8 " Comented with 675 or TOC Surface feet determined by Visual Hole size 12 4" Intermediate Coming Size 5/2 " Comented with 1560 or TOC 2/50' feet determined by Hole size 5/2 " Comented with 1560 or TOC 2/50' feet determined by Hole size 77%" Total depth 4/317' Injection interval 4/317' I	Surface Casing Size 85/8 "Cemented with 67 TOC Surface feet determined by 1/30 Hole size 12/4" Intermediate Casing Size 5/2 "Cemented with TOC feet determined by Hole size Ungastring Size 5/2 "Cemented with TOC feet determined by Hole size 5/2 "Cemented with TOC Feet determined by Hole size 7/8" Total depth 4317' Injection interval 4239' feet to 4317' Injection interval 4239' feet to 4282 (perforated) or open-hole, indicate which) CSL TOC 2150' CSL TOC 2150' CSL TOC 2150' AND COL ADD (Tension) packer at 4150' (Insterial) packer	
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Wells in Area of Review Application for Authorization to Inject Southwest Royalties, Inc.

Gonzales 31 Fed #1

Location: 1980' FSL & 1980' FEL

Type: Oil

Sec 31, T9S, R33E Date Drilled: 12/71

Total Depth: 4320'

Casing Record:

Size Depth 8 5/8" 364'

Sacks Cement 250

4 1/2"

4320'

200

Completion:

12/71

Perforated 4214-80'.

9/66

Acidized well w/4000 gal acid. Put well on pump.

Gonzales 31 Fed #2

Location: 1980' FNL & 660' FEL

Type: Oil

Sec 31, T9S, R33E

Date Drilled: 12/71

Total Depth: 4370'

Casing Record:

Size

Depth

Sacks Cement

8 5/8" 4 1/2"

371' 4370' 250 200

Completion:

1/72

Perforated 4261-94'.

1/72

Acidized well w/5000 gal acid. Put well on pump.

Gonzales 31 Fed #3

Location: 660' FSL & 760' FEL

Sec 31, T9S, R33E

Type: Oil

Date Drilled: 2/72

Total Depth: 4356'

Casing Record:

Size 8 5/8" Depth 368'

Sacks Cement

4 1/2" 4356' 250 200

Completion:

2/72

Perforated 4235-67'.

2/72

Acidized well w/5000 gal acid. Put well on pump.

Wells in Area of Review Application for Authorization to Inject Southwest Royalties, Inc.

Gonzales 31 Fed #5 (originally Belco's U.S. Coastal #1)

Location: 660' FSL & 660' FEL

Type: Oil

Sec 31, T9S, R33E

Date Drilled: 10/71

Total Depth: 9100'

Casing Record:

Size	Depth	Sacks Cement
12 3/4"	378'	375
8 5/8"	3560'	400
5 ½"	9100' cut off @ 4550'	200
5 ½"	4489'	250

Completion:

11/71 Perforated 9001-19'. Acidized w/3000 gal acid. Put well on pump.

3/73 Set CIBP @ 8900' w/40' cmt on top. Cut 5 ½" csg @ 4550'. Set 25 sx plug from 4566-4489'. Set 5 ½" csg @ 4489' & cmtd w/250 sx.

Perforated 4239-70'. Acidized w/3000 gal acid. Put well on pump.

Gonzales 31 Fed #7

Location: 1980' FNL & 1980' FEL

Type: Oil

Date Drilled: 3/81

Total Depth: 4311'

Casing Record:

 Size
 Depth
 Sacks Cement

 8 5/8"
 1716"
 200

 5 ½"
 4311"
 200

Completion:

4/81 Perforated 4232-66'.

4/81 Acidized well w/4500 gal acid. Put well on pump.

Wells in Area of Review Application for Authorization to Inject Southwest Royalties, Inc.

Gonzales 31 Fed #9

Location: 760' FSL & 1980' FEL

Type: Oil

Date Drilled: 10/82
Total Depth: 4300'

Casing Record:

 Size
 Depth
 Sacks Cement

 8 5/8"
 401'
 250

 5 ½"
 4300'
 1420

Completion:

11/82 Perforated 4196-4260'.

11/82 Acidized well w/9000 gal acid. Put well on pump.

Warren American #2

Location: 660' FSL & 660' FWL Sec 32, T9S, R33E

Type: Oil Date Drilled: 1/80

Total Depth: 4550'

Casing Record:

 Size
 Depth
 Sacks Cement

 9 5/8"
 379'
 400

 5 ½"
 4550'
 350

Completion:

2/80 Perf 4294-4329'.

2/80 Acidized w/3000 gal acid. Put well on pump.

SOUTHWEST ROYALTIES

PROJECT_	FEDER	AL	31 #	#2Y	
1909	FSL	4	2051'	FWL	

SEC 31, T95, R33E

P+A'2 10/91

50 sx SURF PLUG

50 sx Plug @ 1319-1474'

51/2" CUT @ 1415'

85/8" @ 1580' CMTD w/900 sx

40 sx PLUG 3990-4280'

PERFS: 4206-28'

5%" @ 4366' emTO w/550 sx

TD: 4366'

SOUTHWEST ROYALTIES

PROJECT	(TAT	ξ	32	#	/	_
1981	<u> </u>	FSI	+	198	<u>, , , , , , , , , , , , , , , , , , , </u>		

SEC 32, T95, R33E

D+A'A 10/64

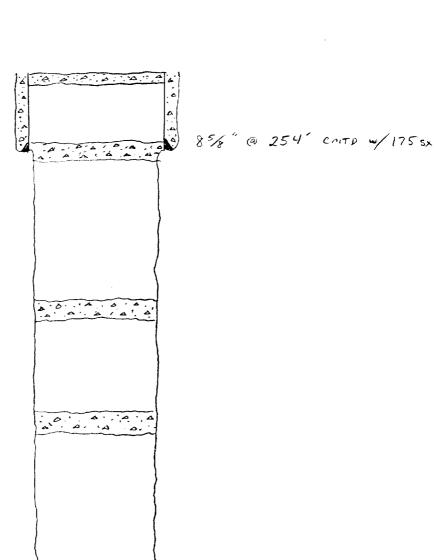
10 sx SURF PLUG

15 sx Plus @ 260'

15 sx PLUG @ 1800'

25 sx Pluc @ 2500'

50 sx Pluc @ 4600'



TO: 4600'

VII. Proposed Operation

This well will be used to inject produced water from other wells in the Flying M (SA) Field via a closed system. The anticipated average injection rate and pressure is 500 BWPD @ 800 psi. The anticipated maximum rate and pressure is 1000 BWPD @ 2100 psi.

VIII. Geological Data

The produced water will be injected into the San Andres formation from 4239' to 4282'. The San Andres consists of dolomite.

The source of underground drinking water in the area is the Ogallala formation (base 400').

VIII. Proposed Stimulation

We will clean out the wellbore to PBTD. Set Model AD-1 packer at 4150' and acidize with 2000 gal 20% NEFE acid.

XII. I have examined available geologic and 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.



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SOUTHWEST ROYALTIES, INC. ATTN: JAMES BLOUNT P.O. BOX 11390 MIDLAND, TX 79702-8390 FAX TO:

Receiving Date: 04/24/98
Reporting Date: 04/30/98
Project Number: NOT GIVEN

Project Name: NOT GIVEN

Project Location: 14 MILES W. OF CROSSROADS, NM

03/2 4 NW/4 SEC 24, T45, R33E

Sampling Date: NOT GIVEN
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT

Sample Received By: JS

Analyzed By: AH

		Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u mhos/cm)	(mgCaCO ₃ /L)
ANALYSIS DA	TE:	04/30/98	04/28/98	04/28/98	04/28/98	04/28/98	04/28/98
H3606-1	WINDMILL H2O	234	776	175	10.1	6208	116
Quality Control		NR	42	50	ND.	4445	A/ID
Quality Control True Value QC				53	NR	1445	NR
		NR	50	50	NR NR	1413	NR
% Accuracy	1.577	NR	84	106	NR	102	NR
Relative Percer	it Difference	NR	16.0	6.0	NR	0.3	NR.
METHODS:		SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
		cı [–]	SO₄	CO ₃	HCO₃	рН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DAT	TE:	04/30/98	04/28/98	04/28/98	04/28/98	04/28/98	04/28/98
H3606-1	WINDMILL H2O	1185	1342	0	142	7.70	4500
Quality Control		476	50.2	NR	NR	6.95	NR
True Value QC		500	50.0	NR	NR	7.00	NR
% Accuracy		95	100	NR	NR	99.3	NR
Relative Percer	nt Difference	0.8	0.3	NR	NR	0.8	0.8

SM4500-CI-B

Gayle A. Potter, Chemist

METHODS:

Date

310.1

150.1

160.1

310.1

375.4

SURFACE OWNER

1864 - GONZAES FED 31

E/2 SECTION 31-9S-33E LEA CO., NM ANNETTE O. MARTIN TRUST 8516 STONE HARBOR CT LAS VEGAS, NV 89128

1865 - FLYING "M" 34-2

SWSW SECTION 29-9S-33E LEA CO., NM

1869 - MCGUFFIN #2

SWNW SECTION 29-9S-33E LEA CO., NM MARGART MCGUFFIN BOX 344 CAPROCK, NM 88213

Flying M SWD/Injection Prospect

OFFSET OPERATORS REPORT

Based on a cursory review of the records of Lea County, New Mexico and the Oil Conservation Division

ELLIS & ELLIS

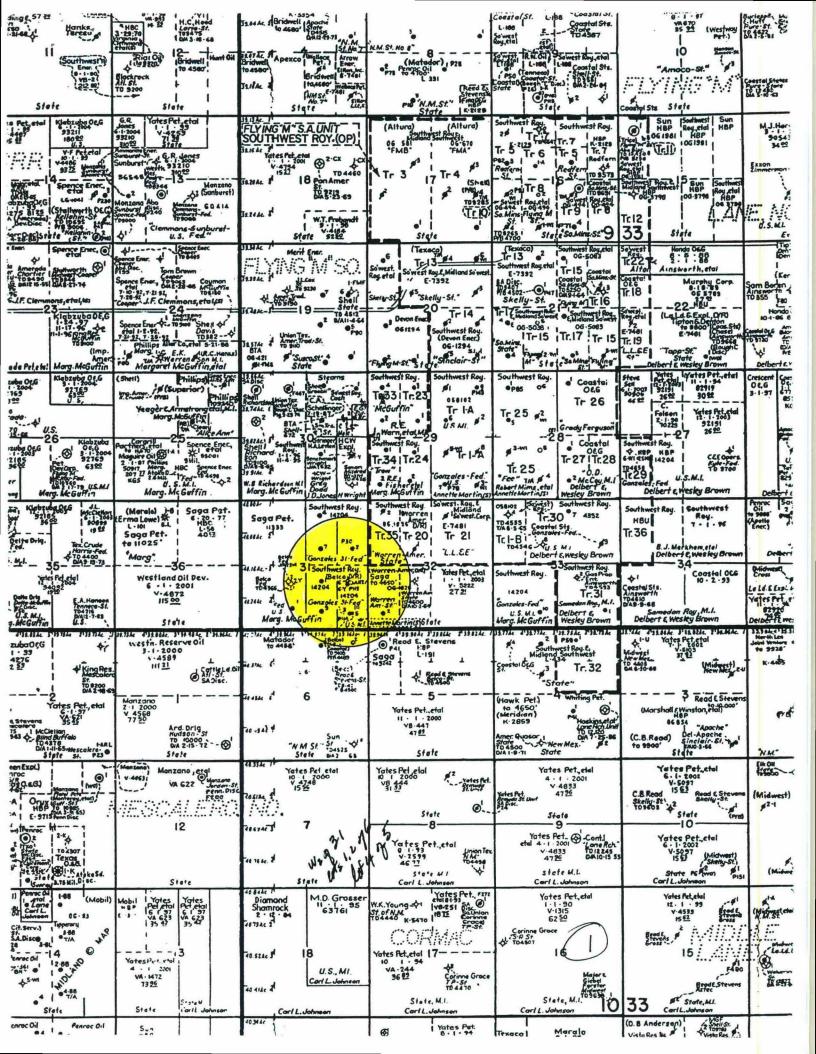
P. O. Box 2522 Midland, Texas 79702 Telephone: 915-685-3863 Fax: 915-685-0955

Dongolow 31-10

April 24, 1998

Lands offsetting Proposed Injection well located in the E/2 SE/4 of Section 31, T-9-S, R-33-E, NMPM, Lea County, New Mexico, and not operated by Southwest Royalties (Plat attached).

Land	Operator	Comments
SW/4 of Section 32, T9S, R33E, NMPM, Lea County, NM	Saga Petroleum Limited Liability Company of Colorado 415 W. Wall, Suite 835 Midland, Texas 79701	
Lot 4 and the SW/4 NW/4 of Section 5, T10S, R33E, NMPM, Lea County, NM	Saga Petroleum Limited Liability Company of Colorado 415 W. Wall, Suite 835 Midland, Texas 79701	
Lots 1, 2 and 3, Section 6, T10S, R33E, NMPM, Lea County, NM	Matador Operating Co. Matador Petroleum Corporation Suite 158, Pecan Creek 8340 Meadow Road Dallas, Texas 75231	Matador Operating Co. is the operator indicated on Oil Conservation District records while the county records reflect Matador Petroleum Corporation.
W/2 of Section 31, T9S, R33E, NMPM, Lea County, NM	Saga Petroleum Limited Liability Company of Colorado 415 W. Wall, Suite 835 Midland, Texas 79701	



AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

•	T7 4	COLT	Dr.	DD.	
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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.

of1	
	weeks.
Beginning with the issue	dated
April 23	1998
and ending with the issue	dated
April 23	1998
Haki Prande	·
Publisher Sworn and subscribed t	o before
me this 23rd	day of
April	1998

My Commission expires October 18, 2000 (Seal)

Ti tenson

LEGAL NOTICE April 23, 1998

Southwest Royalties, Inc., intends to convert to water injection...
(3) wells in the Flying "M" (SA) Field. The wells involved are as follows:

Flying "M" (SA) Unit Tract 34 Well #2, located 660' FSL & 660', FWL of Section 29, T-9-S, R-33-E, Unit Letter M, in Lea County, New Mexico. Injection will be to provide pressure maintenance in the San Andres formation from 4333' - 4381' at a maximum rate and pressure of 1200 BWPD and 2100 PSI. McGuffin #2, located 1980 FNL & 660 FWL of section 29, T-9-S, R-33-E, Unit Letter E, in Lea County, New Mexico. Injection will be to provide pressure maintenance in the San Andres formation from 4340-64' at a maximum rate and pressure of 1200 BWPD and 2100 PSI.

Gonzales 31 Federal #6Y, located 1980 FSL & 860 FEL or Section 31, T-9-S, R-33-E, Unit Letter I, In Lea County, New Mexico. Injection will be to provide pressure maintenance in the San Andres formation from 4239-4282 at a maximum rate and pressure of 1200 BWPD and 2100 PSI.

Interested parties must file objections or requests for hearings within 15 days to the following:

Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

If you have any questions concerning this application, please contact the following:

Southwest Royalties, Inc. P.O. Box 11390 Midland, Tx 79702 Attention: Jim Blount

#15879

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

01101469000 02515156 Southwest Royalties, Inc. P.O. Box 11390 a/c# 476043 Midland, TX 79702

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