STATE OF NEW MEXICO ENERGY AND MINERALS DEPAR MENT

FOST OFFICE BOX 2008
STATE LAND OFFICE BUXEDING
GANTA PE NEW MEXICO 87501

TO POST OFFICE BOX 2008
STATE LAND OFFICE BUXEDING
GANTA PE NEW MEXICO 87501

APPLIC	ATION FOR AUTHORIZATION TO INJECT
. I.	Purpose: Secondary Recovery Pressure Maintenance Disnosal Storage Application qualifies for administrative approval? yes no
II.	Operator: SOUTH WEST ROYALTIES, INC. Address: P.O. DRAWER 11390 MIDLAND, TX 79702
	Address: P.O. DRAWER 11390 MIDLAND, TX 79702
	Contact party: JAMES BLOUNT Phone: 1-800-433-7945
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 \cancel{R} -3229 $+$ \cancel{R} -3033. CS 3555
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: MAY 2 1998
	 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.).
<u>.*</u> 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.
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
ere ^s	to the best of my knowledge and belief. Name: JAMES BLOUNT TILL AREA SUPERVISOR
	Name: JAMES BLOUNT Title AREA SUPERVISOR Signature: James Blow Date: 5-6-98
submi	e information required under Sections VI, VIII, X, and XI above has been previously tted, it need not be duplicated and resubmitted. Please show the date and circumstance e 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 in the late this application was a mailed to them.

INJECTION WELL DATA SHEET

LL NO.	660' FSL: 60	60' FWL 29	T-9.5	· R-33-E
•	FOOTAGE LOCATION	FLYING M UNITED 150' FWL 29 SECTION	TOWNSHIP	RANGE
Schemat		Tak	·lan Daka	
Serromae			ılar Data	••
		Surface Casing Size 8 5/8 "		900
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	Tut .	TOC Surface for	eet determined by	VISUAL
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	85/8" - 24" C59. C 1790'	Intermediate Casing		
	85/8" - 24" Cs3.	Size	Cemented wit	h
1111	()	TOC fe	eet determined by	
	·	Hole size	•	
		Long string		775
		Size 5 1/2 " TOC 1990' for	Cemented wit	h //3
		TOC 1970' fe	et determined by	CBL
		Hole size	3 *	
		Total depth 440	94'	
		Injection interval		
		4333' feet to perforated or open-hole	4:381	feet
	·	(perforated)or open-hole	, indicate which	T
	51/2" x 23/8" AD-1 } 4333' 4381' 51/2" - 15.5" Csq. (
	Land Company of the second			
		ed with Internel P.	LASTIC COATING	set in a
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McGuffin #2

Location: 1980' FNL & 660' FWL Sec 29, T9S, R33E

Type: Oil Date Drilled: 5/74

Total Depth: 4440'

Casing Record:

Size Depth Sacks Cement 8 5/8" 407' 350

4 ½" 4440' 250

Completion:

5/74 Perforated 4340-74'. Acidized well w/4500 gal acid.

5/74 Squeezed perfs w/32 bbls Injectrol + 40 sx cmt.

1/67 Reperforated 4340-64'. Acidized w/2000 gal acid.

Flying M Unit #34-1

Location: 2112' FSL & 796' FWL Sec 29, T9S, R33E
Type: Oil Date Drilled: 7/67

Total Depth: 4465'

Casing Record:

 Size
 Depth
 Sacks Cement

 8 5/8"
 288'
 200

 4 ½"
 4465'
 250

Completion:

7/67 Perf 4348-83'.

7/67 Acidized well w/5000 gal acid. Put well on pump.

Flying M Unit #24-2

Location: 794' FSL & 1857' FWL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 7/67

Total Depth: 4459'

Casing Record:

 Size
 Depth
 Sacks Cement

 8 5/8"
 279'
 200

 4 ½"
 4459'
 250

Completion:

8/67 Perf 4367-4406'.

8/67 Acidized well. Put well on pump.

Flying M Unit #24-1

Location: 1980' FSL & 1980' FWL

Type: Oil

Sec 29, T9S, R33E Date Drilled: 3/74

Total Depth: 4450'

Casing Record:

Size Depth 8 5/8" 404'

Sacks Cement 300

4 1/2"

4450'

250

Completion:

4/74

Perf 4346-84'.

4/74

Acidized well. Put well on pump.

Flying M Unit #1A-7

Location: 659' FSL & 1991' FEL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 5/74

Total Depth: 4429'

Casing Record:

Size Depth 8 5/8" 342'

Sacks Cement

4 ½"

4429'

300 250

Completion:

6/74

Perf 4356-4427'.

6/74

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

PROJECT	MIL	DRED	WRI	GI+T_	# /
659	FSL	+ 6	59'	FEL	

PAGE_____OF____ BY_____DATE____

SEC 30, T95, R33E

P+A'd 6/73

5 sx SURF PLUG

35 sx Plus 325-425'

4/2" cut @ 1209' 30 sx Plus 1160-1260' 8 % " @ 375" CMTD W/275 sx

25 sx PLUG 4110-4360'

PERFS: 4317-60'

41/2" @ 4413' CMTD w/250 sx

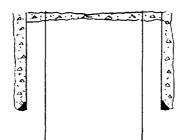
TD: 4425'

PROJECT	WRI	GH	Т	#	1- Y	
1880	FSL	4	660	,	FEL	

SEC 30, T95, R33E

P+A'd 9/86

10 SX SURF PLUG



P. A. C. A.

8 5/8" @ 425 CMTD W/500 SX

25 sx Plug @ 1500'

CIBP @ 4250' W/ 35'CMT

PERFS: 4329-4408 4/2" @ 4500' CMTD w/500 5x

TD: 4500'

PROJECT WARREN AMERICAN #2	(AKA FMU 35-2) PAGE	OF
469' FNL + 660' FWL	BY	DATE

SEC 32, T95, R33E

P+A'd 5/69

10 sx SURF PLUG

30 sx @ 286'

85/8" @ 286' CMTD w/200 SX

30 sr Pluc 1360-1460' 4%" cut @ 1494'

30 SX PLNG ACROSS PERFS

PERFS: 4344-83'

41/2" @ 4438' cmTD w/250 sx

TD: 4440'

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 4333' to 4381'. 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 4250' 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

W/2 4 NW/4 SEC 29 T95, R33E

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

Sample Received By: JS

Analyzed By: AH

W/2 **	May 9, See 29, 1	13, 13,0					
		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 DAT	FE:	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	53	NR	1445	NR
True Value QC		NR	50	50	NR		
% Accuracy		NR	84	106	NR	102	
Relative Percen	nt Difference	NR	16.0	6.0	NR	0.3	NR
METHODS:	······································	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
		cı ⁻	00	00	uco	-1.1	TDC
			SO ₄	CO ₃	HCO ₃	•	
		(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	
Relative Percen	nt Difference	0.8	0.3	NR	NR	0.8	0.8

SM4500-CI-B

METHODS:

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

stying m 34-2

April 24, 1998

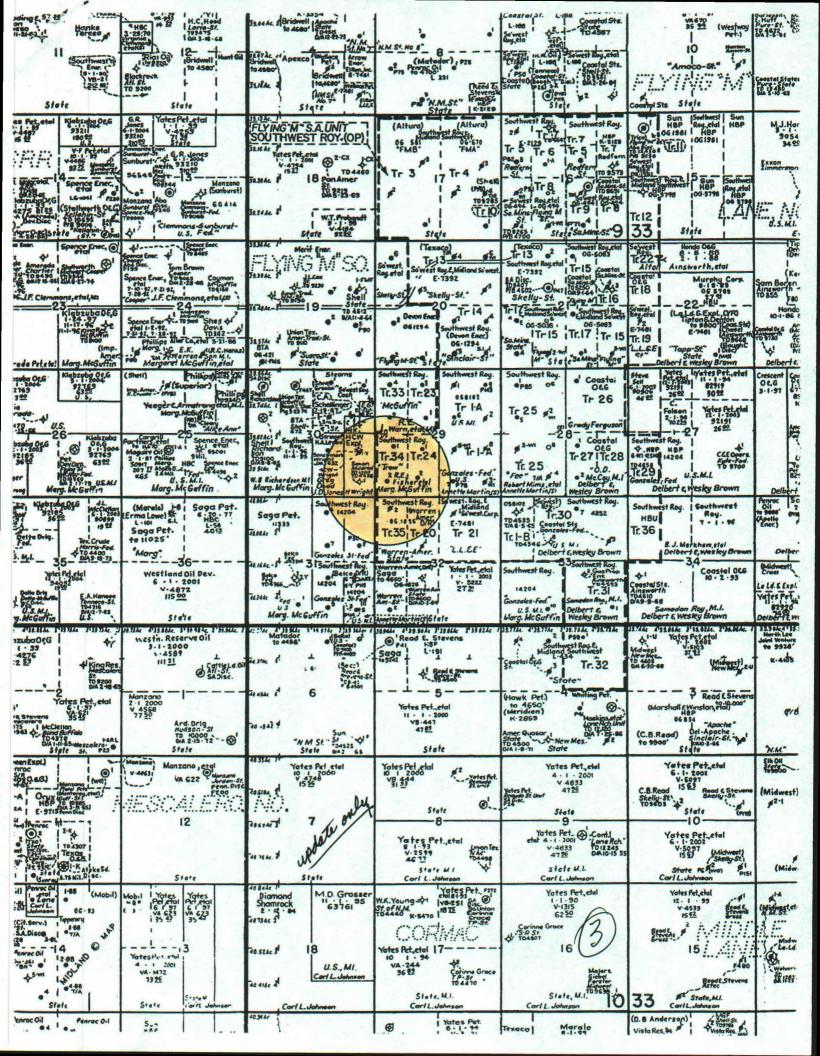
Lands offsetting Proposed Injection well located in the W/2 SW/4 of Section 29, T-9-S, R-33-E, NMPM, Lea County, New Mexico, and not operated by Southwest Royalties (Plat attached).

Land	Operator	Comments
W/2 NE/4 of Section 30, T9S, R33E, NMPM, Lea County, NM	John R. Stearns, et ux Lou Ann Stearns, d/b/a Stearns PO Box 988 Crossroads, NM 88114	
E/2 SE/4 of Section 30, T9S, R33E, NMPM, Lea County, NM	Joseph E. & Twila M. Goodding Living Trust dated 7/12/89, Twila M. Goodding, Trustee (3/4 interest) 1009 Crestview Circle Farmington, NM 87401 and Laura Kaempf, ssp (1/4 interest) 1325 Valley View Road, Apt. 302 Glendale, CA 91202	Unleased Mineral Interest

W/2 SE/4 of Section 30, T9S, R33E, NMPM, Lea County, NM	This tract was formerly produced and the last Operator of record was Hulen H. Lemon, PO Box 485, Midland, Texas. Apparently, the well located on this tract has never been plugged and the well's allowable has been canceled for more than ten (10) years. Therefore, we are assuming the lease has expired and your offset operator notification should be directed to the mineral owner see NOTE below.
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NOTE:

Dale Todd or Vanica Todd acquired this tract of land from the Property Tax Division of the Taxation and Revenue Department of the State of New Mexico. We cannot ascertain if the deed conveys all or any part of the mineral estate under the subject tract. The mineral estate prior to this Tax Deed was vested in J. D. Jones, et ux Alice Jones as to 1/16 interest and Gregg Dodd and Monte Sue Dodd as to 15/16 interest. In 1989, a Suit to Quiet Title styled Dale Todd and Vanica Todd vs J. D. Jones, Alice Jones, Gregg Dodd and Monta Sue Dodd, all if living and if not, then their unknown heirs and all unknown claimants of interest adverse to the plaintiffs. This suit was dismissed prior to any of the defendants being served. Verification of what interest in the mineral estate, if any, passed under the subject Tax Deed should be obtained from the State of New Mexico Department of Taxation and Revenue — Property Tax Division.



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.

ofl	
	weeks.
Beginning with the issue	dated
April 23	1998
and ending with the issue	
April 23	1998
Kaki Prandu	
Publisher	
Sworn and subscribed t	o before
me this 23rd	day of
April	1998

tenson

My Commission expires October 18, 2000 (Seal)

Notary Public.

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.

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

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 for-

mation 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

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

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of the earlier submittal.

APPLIC	ATION FOR AUTHORIZATION TO INJECT	
. 1.	Purpose: Secondary Recovery X Pressure Application qualifies for administrative ap	Maintenance ☐ Disnosal ☐ Storage proval? ☑ yes ☐ no
11.	Operator: South WEST ROYALTIES	, INC.
	Address: P.O. DRAWER 11390 A	MIDLAND, TX 79702
	Contact party: JAMES BLOUNT	Phone: 1-800 - 433 - 7945
III.	Well data: Complete the data required on the proposed for injection. Additional	reverse side of this form for each well l sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? If yes, give the Division order number authori	\boxtimes yes \square no $R-3229 + R-3033$
٧.	Attach a map that identifies all wells and leadinjection well with a one-half mile radius circularity. This circle identifies the well's area	ses within two miles of any proposed cle drawn around each proposed injection
* VI.	Attach a tabulation of data on all wells of pulpenetrate the proposed injection zone. Such described type, construction, date drilled, located schematic of any plugged well illustrating at	ata shall include a description of each
VII.	Attach data on the proposed operation, including	ng:
		pressure; injection fluid and compatibility with reinjected produced water; and into a zone not productive of oil or gas d well, attach a chemical analysis of ay be measured or inferred from existing
<u>.</u> #VIII. ~	detail, geological name, thickness, and depth- bottom of all underground sources of drinking v total dissolved solids concentrations of 10,000 injection zone as well as any such source known injection interval.	Give the geologic name, and depth to water (aquifers containing waters with mg/l or less) overlying the proposed
IX.	Describe the proposed stimulation program, if a	any.
* x.	Attach appropriate logging and test data on the with the Division they need not be resubmitted.	
* xI.	Attach a chemical analysis of fresh water from available and producing) within one mile of any location of wells and dates samples were taken.	injection or disposal well showing
XII.	Applicants for disposal wells must make an affi examined available geologic and engineering dat or any other hydrologic connection between the source of drinking water.	a and find no evidence of open faults
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 to the best of my knowledge and belief.	and the contract of the contra
	Name: JAMES BLOUNT	TITLE MIKEA SUPERVISOR
		Title AREA SUPERVISOR Date: 5-6-98

III. WELL DATA

- A. The following well data must be aubmitted 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 lessehold 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. C. 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 fit any objections or requests for hearing of administrative applications within in its room the date this application was mailed to them.

INJECTION WELL DATA SHEET

2	1980' FNL: 6	McGuffini LEASE 60'FWL 29 SECTION	T-9.5	P-33-E
ELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
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	85/8" - 24" Css.	Size		
		TOC		/
		Hole size		
		Long string		
		Size 4 1/2 "	Cemented wit	h 250
	,	TOC3200'	feet determined by	, <u>Calculation</u>
		Hole size 7	7/8 "	
		Total depth 45	440'	
		Injection interval		
		4340' feet to perforated or open-ho	. 4364	feet
		perforated or open-ho	ole, indicate which	1)
	4340'	pkr. 6 4° 3'		
	4364' ": 41/2" - 9,5 " Csq.	e 4440'	,	
	75-11 12 0 110 00 11.			
	23/2" 47#/	Tulerash	PLASTIC COATING	
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BAKER	2 Model AD-1 (Ta	packer a	t <u>4250</u>	feet
r describ	e any other casing-tub:	ing seal).		
ther Dato				
, Name of	the injection formation	on SAN Andres		
Name of	Field or Pool (if app	licable) Flying M.	(SA)	
. Is this	a new well drilled for	r injection? Yes	Ø No	
If no,	for what purpose was t	he well originally drilled	or Dil produ	ctron
	· · · · · · · · · · · · · · · · · · ·	······································		
. Has the	well ever been perfor ve plugging detail (sac	ated in any other zone(s)? ks of cement or bridge plu	? List all such pe ug(s) used)	erforated interv
	,	No		
. Give th	ne depth to and name of	any overlying and/or under this the flying M	erlying oil or gas	zones (pools) in
enite di		ctors. The ABO form		
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Honks!	*HBC H-55 H.C. Hood *JONE 10 H-55 H.C. H.C. H.C. H.C. H.C. H.C. H.C. H.	HBP K: 3354 K: 3354 Z 33.04 Åc. 1 Bridwell Apoctor to 4580' Stories 0/AI2-19-79 M.M.	3. •	Lies Coastal Sts.	McBride OEG P240 9 - 97 VA 670 35 34 (Westway	Burleson Murphy Open
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McGuffin #1

Sec 29, T9S, R33E Location: 1980' FNL & 2155' FWL Type: Oil Date Drilled: 8/66

Total Depth: 4480'

Casing Record:

Size Sacks Cement Depth 8 5/8" 271' 150 4 1/2" 4480' 250

Completion:

8/66 Perforated 4354-81'

Acidized well w/1000 gal BDA acid. Put well on pump. 9/66 Perforated 4395-4404'. Acidized w/4000 gal 28% acid. 1/67

McGuffin #3

Location: 660' FNL & 1980' FWL Sec 29, T9S, R33E Date Drilled: 5/74 Type: Oil Total Depth: 4449'

Casing Record:

Sacks Cement Size Depth 377 8 5/8" 300 4 1/2" 4449' 250

Completion:

5/74 Perforated 4354-4422'.

5/74 Acidized well w/4500 gal acid. Put well on pump.

McGuffin #4

Location: 660' FNL & 660' FWL Sec 29, T9S, R33E Date Drilled: 4/76 Type: Oil Total Depth: 4456'

Casing Record:

Depth Sacks Cement Size 364' 8 5/8" 250 4 1/2" 4456' 230

Completion:

5/76 Perforated 4309-82'.

5/76 Acidized well w/5000 gal acid. Put well on pump.

Flying M Unit #34-1

Location: 2112' FSL & 796' FWL Sec 29, T9S, R33E
Type: Oil Date Drilled: 7/67
Total Depth: 4465'

Casing Record:

 Size
 Depth
 Sacks Cement

 8 5/8"
 288'
 200

 4 ½"
 4465'
 250

Completion:

7/67 Perf 4348-83'.

7/67 Acidized well w/5000 gal acid. Put well on pump.

Flying M Unit #34-2

Location: 660' FSL & 660' FWL Sec 29, T9S, R33E

Type: Oil Date Drilled: 12/85

Total Depth: 4404'

Casing Record:

 Size
 Depth
 Sacks Cement

 8 5/8"
 1790'
 700

 5 ½"
 4404'
 775

Completion:

12/85 Perf 4333-81'.

12/85 Acidized well w/9000 gal gelled acid. Put well on pump.

2/86 Frac'ed well w/51,000# sand.

Flying M Unit #24-1

Location: 1980' FSL & 1980' FWL Sec 29, T9S, R33E

Type: Oil Date Drilled: 3/74

Total Depth: 4450'

Casing Record:

 Size
 Depth
 Sacks Cement

 8 5/8"
 404"
 300

 4 ½"
 4450"
 250

Completion:

4/74 Perf 4346-84'.

4/74 Acidized well. Put well on pump.

Flying M Unit #1A-6

Location: 1980' FNL & 1980' FEL Sec 29, T9S, R33E

Type: Oil Date Drilled: 4/74
Total Depth: 4450'

Casing Record:

Size Depth Sacks Cement

8 5/8" 366' 300 4 ½" 4450' 250

Completion:

4/74 Perf 4361-4412'.

4/74 Acidized well. Put well on pump.

Cash #1

Location: 660' FNL & 460' FEL Sec 30, T9S, R33E

Type: Oil Date Drilled: 2/78

Total Depth: 4463'

Casing Record:

 Size
 Depth
 Sacks Cement

 7 5/8"
 1818'
 750

 4 ½"
 4463'
 200

Completion:

2/78 Perf 4329-74'. Acidized w/5000 gal 15% acid. Put well on pump.

11/94 Add perfs 4393-4415'. Acidized w/1000 gal 15% NEFE.

Cash #2

Location: 1839' FNL & 519' FEL Sec 30, T9S, R33E Type: Oil Date Drilled: 8/80

Total Depth: 4416'

Casing Record:

 Size
 Depth
 Sacks Cement

 8 5/8"
 1805'
 900

 4 ½"
 4416'
 450

Completion:

9/80 Perf 4329-69'.

9/80 Acidized w/5000 gal Mod 303 acid. Put well on pump.

2 A 2 A 2 A

PROJECT_	SHEL	٤	672	LTD.	#/
1955	FNL	4	1955	5' F	EL

PAGE ____OF DATE

SEC 30, T95, R33E

P+A2 10/67

10 SX SURF PLUG

25 sx Plug 1150-1210' 85/8" CUT @ 1210'

4%" CUT @ 3353"

25 sx PLAG 4/20-4300'

50 sx Pluc 335-405' 1234" @ 370' CMTD W/150 sx

8 5/8" @ 3670' CMT, w/300 5x

PERFS: 4305-40'

41/2" @ 4487' CMTD W/275 SX

TD: 9150'

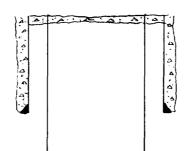
PROJECT	WR	GH	1T	#	1- Y_	
1880-	FSL	4	660	,	FEL	

PAGE_____OF____ BY_____DATE__

SEC 30, T95, R33E

P+A'd 9/86

10 SX SURF PLUG



0.4.4

8 5/8" @ 425' CMTD W/500 SX

25 SX PLUG @ 1500'

CIBP @ 4250' W/ 35'cMT

PER. 4/2'

PERFS: 4329-4408 4/2" @ 4500' CMTD W/500 5X

TD: 4500'

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 4340' to 4364'. 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 4250' 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 W/2 4 NW/4 SEC 29, T 95, R33E

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

Sample Received By: JS

Analyzed By: AH

		Na	Ca	Mg	K Conductivity	I-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L) (u mhos/cm)	(mgCaCO ₃ /L)

ANALYSIS D	ATE:	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 Contro	ol	NR	42	53	NR	1445	NR
True Value Q	С	NR	50	50	NR	1413	NR
% Accuracy		NR	84	106	NR	102	NR
Relative Perce	ent Difference	NR	16.0	6.0	NR	0.3	NR

METHODS:	SM3500-Ca-D 3500-Mg E	8049	120.1	310.1

CI	SO₄	CO ₃	HCO₃	pН	TDS
(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)

ANALYSIS DATE:		04/30/98	04/28/98	04/28/98	04/28/98	04/28/98	04/28/98
H3606-1 WIN	IDMILL H2O	1185	1342	0	142	7.70	4500
Quality Control		476	50.2	NR	NR	6.95	NR
Quality Control True Value QC		500	50.2	NR	NR	7.00	NR
% Accuracy		95	100	NR	NR	99.3	NR
Relative Percent Diff	erence	0.8	0.3	NR	NR	0.8	0.8

METHODS: SM4500-CI-B 375.4 310.1 310.1 150.1 160.1

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

mc Duffin 2

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

April 24, 1998

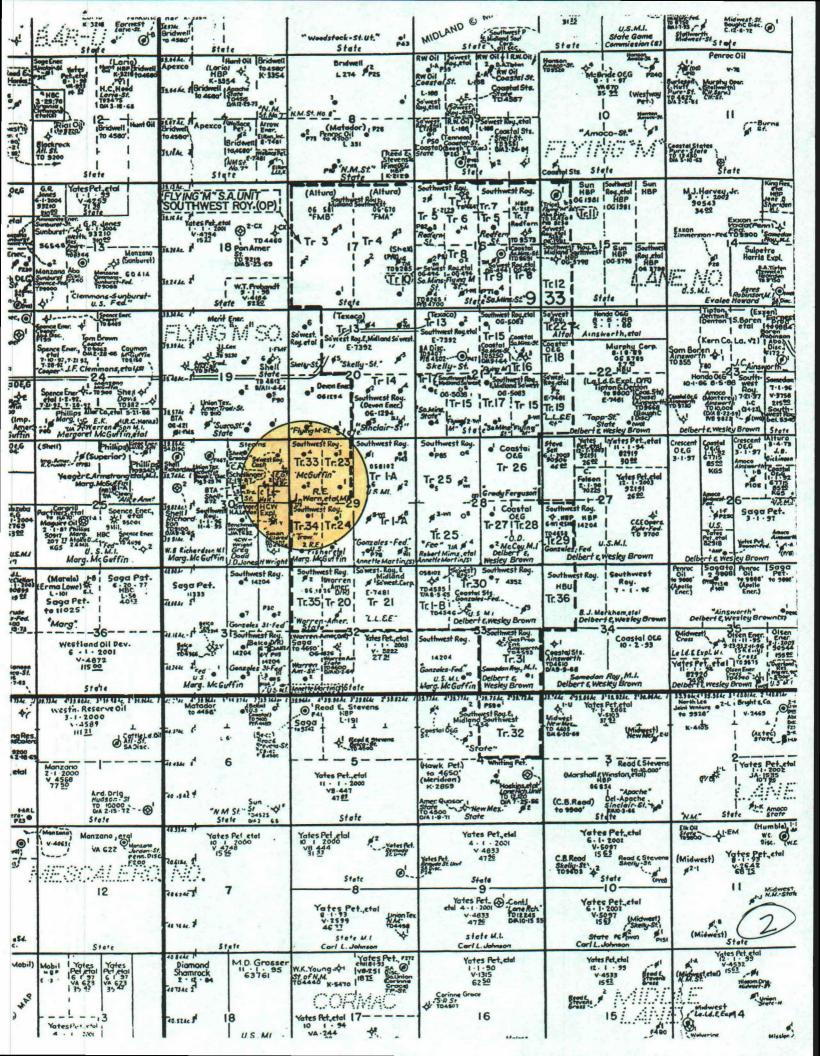
Lands offsetting Proposed Injection well located in the W/2 NW/4 of Section 29, T-9-S, R-33-E, NMPM, Lea County, New Mexico, and not operated by Southwest Royalties (Plat attached).

Land	Operator	Comments
SW/4 of Section 20, T9S, R33E, NMPM, Lea County, NM	Devon Energy Corporation (Nevada) 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102	
SE/4 of Section 19, T9S, R33E, NMPM, Lea County, NM	Merit Energy Company Merit Energy Partners, L.P. Merit Energy Partners, II, L.P. Merit Energy Partners, III, L.P. Merit Energy Partners, VII, L.P. Merit Energy Partners, VII, L.P. 12221 Merit Dr. Dallas, Texas 75251	Merit Energy Company is the operator indicated on Oil Conservation District records while the county records reflect leasehold ownership in the various Limited Partnerships.
W/2 NE/4 of Section 30, T9S, R33E, NMPM, Lea County, NM	John R. Stearns, et ux Lou Ann Stearns, d/b/a Stearns PO Box 988 Crossroads, NM 88114	
E/2 SE/4 of Section 30, T9S, R33E, NMPM, Lea County, NM	Joseph E. & Twila M. Goodding Living Trust dated 7/12/89, Twila M. Goodding, Trustee (3/4 interest) 1009 Crestview Circle Farmington, NM 87401 and Laura Kaempf, ssp (1/4 interest) 1325 Valley View Road, Apt. 302 Glendale, CA 91202	Unleased Mineral Interest

W/2 SE/4 of Section 30, T9S, R33E, NMPM, Lea County, NM	Unleased Mineral Interest. This tract was formerly produced and the last Operator of record was Hulen H. Lemon, PO Box 485, Midland, Texas. Apparently, the well located on this tract has never been plugged and the well's allowable has been canceled for more than ten (10) years. Therefore, we are assuming the lease has expired and your offset operator notification should be directed to the mineral owner see NOTE below.
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NOTE:

Dale Todd or Vanica Todd acquired this tract of land from the Property Tax Division of the Taxation and Revenue Department of the State of New Mexico. We cannot ascertain if the deed conveys all or any part of the mineral estate under the subject tract. The mineral estate prior to this Tax Deed was vested in J. D. Jones, et ux Alice Jones as to 1/16 interest and Gregg Dodd and Monte Sue Dodd as to 15/16 interest. In 1989, a Suit to Quiet Title styled Dale Todd and Vanica Todd vs J. D. Jones, Alice Jones, Gregg Dodd and Monta Sue Dodd, all if living and if not, then their unknown heirs and all unknown claimants of interest adverse to the plaintiffs. This suit was dismissed prior to any of the defendants being served. Verification of what interest in the mineral estate, if any, passed under the subject Tax Deed should be obtained from the State of New Mexico Department of Taxation and Revenue — Property Tax Division.



AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, KATHI BEARDEN

Pı	ıb	lis	her	
Τt	JU.	119	HCI	

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
Karpi Prearder
Publisher
Sworn and subscribed to before
me this 23rd day of
April 1998

My Commission expires October 18, 2000 (Seal) 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 & 880 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

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

Complete Items 1 and/or 2 for additional services. **Complete Items 3, 4a, and 4b. **Print your name and address on the reverse of this form so the card to you. **Attach this form to the front of the mailpiece, or on the back if permit. **Write "Return Receipt Requested" on the mailpiece below the **The Return Receipt will show to whom the article was delivered. 3. Article Addressed to: **MARGART MCGUFFIN BOX 344 CAPROCK, NM 88213 5. Received By: (Print Name)	4a. Article 1 4b. Service Register Express Return Re 7. Date of D	1. Addressee's Add	ress ry e. tiffied ared	or usi nber. date	Ling P329 365274	Registered KZ Certified	Return Receipt for Merchandise	8. Addresses's Address (Only if requested and fee is paid) and fee is paid) 10585-87-8-0729 Domestic Return Receipt	
6. Signature: (Addressee or Agent) PS Form 3811, December 1994		Domestic Return Rec	eipt	nailpiece below article was de	مارم مارم	こととってい	n 87%	Jahr	:
omplete items 1 and/or 2 for additional services. omplete items 3, 4a, and 4b. rint your name and address on the reverse of this form so that ward to you. Itach this form to the front of the mailpiece, or on the back if sparemit. Irite "Return Receipt Requested" on the mailpiece below the article Return Receipt will show to whom the article was delivered at elivered. Article Addressed to: DEVON ENERGY	te can return this ce does not cle number. not the date	9365268 De XX Certifie	d E		3. Article Addressed to: 3. Article Addressed to:	1009 Crestuica	Farmington, NM	5. Regelved By: (Print Name) 22. 6. Signature: (Addressee or Agent) X PS Form 3811 December 1994	
Received By: (Print Name) Signature: (Addressee or Agent)	Return Receip 7. Date of Deliv 8. Addressee's and fee is pa	pt for Merchandise COD yery Address (Only if requested	 Thank you for	Addressee's Address Restricted Delivery postmaster for fee.	65273	773	Merchandise COD COD to tor using	if requested	Domestic Return Receipt
NDER: Implete items 1 and/or 2 for additional services. Implete items 3, 4a, and 4b. Int your name and address on the reverse of this form so that we or do to you. Itach this form to the front of the mailpiece, or on the back if space irmit. Intellete Return Receipt Requested on the mailpiece below the article in Return Receipt will show to whom the article was delivered and	can return this does not 1 number. 2	so wish to receive the owing services (for an ra fee): . Addressee's Address . Restricted Delivery	ms ext	space does not 1. Thick number. 2. and and the date Consult	8 C		☐ Express Mail ☐ Return Receipt for 7. Date of Delivery	10 5	102595-97-8-0179 Dorr
MERIT ENERGY 12222 MERIT DR. STE. 1500 DALLAS, TX 75251	4a. Article Number 4b. Service Type Registered Express Mail Return Receipt (7. Date of Deliver	Certified Insured for Merchandise COD Coddress (Only if requested	Thank you for using Return Receipt Service.	card to you. Mattach this form to the front of the mailpiece, or on the back if space does not extract this form to the front of the mailpiece catow the fluide number. Write 'Return Receipt Requested' on the mailpiece catow the fluide number. The return Receipt will show to whom the article was delivered and the date delivered.	Addressed to:	3,0	594e, NM 87006	ad By: (Print Name)	3811 December 1994 >
NDER: Complete items 1 and/or 2 for additional services.	l als	mestic Return Receipt so wish to receive the owing services (for an	Print your			compli	ADDRESS	Syour RETURN 6. Signature	PS Form
Complete items 3, 4a, and 4b. Print your name and address on the neverse of this form so that we could to you. Attach this form to the front of the mailpiece, or on the back in space permit. Write "Return Receipt Requested" on the mailpiece below the article The Return Receipt will show to whom the article was delivered and delivered.	does not 1 number. 2 the date Co	ra fee): . Addressee's Address . Restricted Delivery nsult postmaster for fee.	ecelpt Service.	Red	ostal Se	rvice for C	365 27 ertified	Mail	
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5. Signature: (Addressee or Agent)	and fee is paid	ddress (Only if requested	Thank you for us	Sperior Sperio	ial Deliver	very Fee	of g	6	YN S N W

County,						
TownshipRange	Township	Range				
Township Range	Township	Range				

Form 104-(Four on Township)

