

RECEIVED

816

SEP 30 2005

APPLICATION FOR AUTHORIZATION TO INJECT  
CONSERVATION DIVISION

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

II. OPERATOR: Southwest Royalties, Inc.

ADDRESS: 6 Desta Drive Midland, Texas 79705

CONTACT PARTY: Kerry Miller PHONE: 432-688-3221

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: R-3229, R-3033, R-6171 *case 8092*

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: DAWN M. HOWARD TITLE: OPERATIONS ASSISTANT

SIGNATURE: *Dawn M. Howard* DATE: 8/31/05

E-MAIL ADDRESS: dhoward@claytonwilliams.com

\* 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: \_\_\_\_\_

*[Signature]* ABOVE THIS LINE FOR DIVISION USE ONLY *WFX*

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR
- [D] Other: Specify \_\_\_\_\_
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply
- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office.
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name \_\_\_\_\_ Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ e-mail Address \_\_\_\_\_



SOUTHWEST ROYALTIES, INC.

SOUTHWEST ROYALTIES, INC.  
6 Desta Drive, Suite 2100  
Midland, Texas 79705  
(432) 686-9927, (800) 658-6227

Wednesday, August 31, 2005

Offset Operators, Producers & Surface Owners  
(per attached listing)

Re: Application for Authorization to Inject  
Lea County, New Mexico

Dear Ladies and Gentlemen:

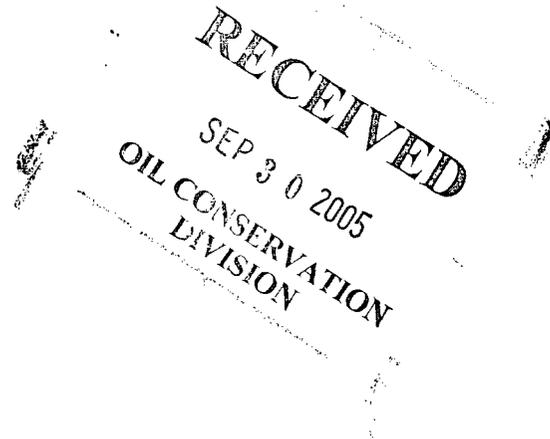
Enclosed please find Southwest Royalties Inc.'s Application for Authorization to Inject for the conversion of three wells into water injection wells for the purpose of waterflooding in the Flying "M" (SA) Field in Section 29, T9S, R33E, Lea County, New Mexico.

Please let me know if you need additional information.

Sincerely,

*Dawn M. Howard*  
Operations Assistant  
Southwest Royalties, Inc./Clayton Williams Energy  
6 Desta Drive, Ste 2100  
Midland, Texas 79705  
432/688-3267  
432/688.3268 fax

enclosed: Form C-108, Legal Notice, Affidavit of Publication & Plat



## LEGAL NOTICE

Southwest Royalties, Inc., intends to convert to water injection three (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 1000 BWPD @ 1200 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' - 4364' at a maximum rate and pressure of 1000 BWPD @ 1200 PSI.

Flying "M" (SA) Unit Tract 24 Well #1, located 1980' FSL & 1980' FWL of Section 24, T-9-S, R-33-E, Unit Letter K in Lea County, New Mexico. Injection will be to provide pressure maintenance in the San Andres formation from 4342' - 4412' at a maximum rate and pressure of 1000 BWPD @ 1200 PSI.

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

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

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

Attn: Dawn Howard  
Southwest Royalties, Inc.  
6 Desta Drive, Suite 2100  
Midland, Texas 79705

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a 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 August 13 2005

and ending with the issue dated August 13 2005

*Kathi Bearden*

Publisher

Sworn and subscribed to before

me this 15th day of

August 2005

Notary Public.

My Commission expires  
February 07, 2009  
(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

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  
August 13, 2005

Southwest Royalties, Inc., intends to convert to water injection three (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 1000 BWPD @ 1200 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' - 4364' at a maximum rate and pressure of 1000 BWPD @ 1200 PSI.  
Flying "M" (SA) Unit Tract 24 Well #1, located 1980' FSL & 1980' FWL of Section 24, T-9-S, R-33-E, Unit Letter K in Lea County, New Mexico. Injection will be to provide pressure maintenance in the San Andres formation from 4342' - 4412' at a maximum rate and pressure of 1000 BWPD @ 1200 PSI.  
Interested parties must file objections or request for hearings within 15 days to the following:  
NM Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501  
#21720

01101469000 67532551  
SOUTHWEST ROYALTIES, INC.  
P.O. BOX 11390  
MIDLAND, TX 79702

**Application for Authorization to Inject  
Flying M Unit wells #24-1, #34-2 and McGuffin #2  
Lea County, New Mexico**

VII. Proposed Operation

1. Average anticipated rate and pressure 300 BPD @ 800 psi. Proposed maximum rate and pressure 1000 BPD @ 1200 psi.
2. This is a closed system.
3. The fluid to be injected is predominantly produced water from within the Flying M Unit. If additional water is needed, fresh water will be utilized from a well approximately 5 miles south of the unit. This system has been in use for several years.

- VIII. The recommended injection zone in the proposed injection wells is the San Andres formation ranging from 4327' - 4412'. The lithological description of the San Andres in the Flying M Field consists of a dense to porous dolomite with minor vertical fracturing. The porosity is vugular to intercrystalline. The proposed injection interval has been the main producing interval in the field. Geologically it is known as the Slaughter producing zone of the San Andres.

The underground source of drinking water in this area is the Ogallala formation which occurs from 0'-400'.

- IX. Small volume (3000-4000 gallons) matrix acid jobs will be performed on the proposed injection wells.
- X. Logs from the proposed wells are on file with the Division.
- XI. A chemical analysis of fresh water from wells in the area is attached.

99000

ons-Sunburst-  
S. Fed."

1-1-2004  
VA-1092  
115.00

State

State

T09265  
P/B 4700

Spence Ener.  
Cooper  
To 8405

Brown  
1063  
1-28-68  
Coyman  
McGuffin  
TD 8180

Armstrong, et al (S)

Shell  
Davis  
TD 382

Co., et al 5-21-88

E.K. (R.C. Hankal)  
Arrendo San M.  
McGuffin, et al

Merit Ener.

39.38 Ac

39.39 Ac

39.48 Ac

39.57 Ac

Union Tex.  
Armer. Trad.-St.  
TO 9110

"Susco St."  
State

Shell  
State

TD 4512  
D/A 11-4-64  
P 90

1 F.M.F.

J.L. Cox  
To 9230

Armer. Trad.  
To 9196

(Texaco)  
Tr 13

Southwest Roy. et al

Southwest Roy. E. Midland Southwest  
E-7392

Skelly-St

Skelly-St

Jetta  
061294

Tr 14

Southwest Roy.  
(Devon Ener.)  
06-1294

"Flying M-St."  
State

"Sinclair-St"

(Texaco)  
Tr 13

Southwest Roy.  
E-7392

SA Disc.  
TD 407  
P/B 4502

Skelly-S

Tr 17

Southwest  
E. Midland:  
06-50

ITr

So. Minn.  
State  
Fynn  
M

Phillips (Superior)

Phillips  
No 3240

Armstrong et al, M.I.

3. McGuffin  
(FB)  
"Alice Ann"

Spence Ener.,  
et al  
55001  
9 Mil.

HBC Spence Ener  
"Fed" 10 4698  
S. M.I.

McGuffin

Gulf Coast  
6-6-2002  
NW 4

Shell  
Richardson  
39.74 Ac

Union Tex.  
C. Disc  
19-29-78

BT A  
672

Gulf Coast  
2-15-2002

39.82 Ac

W.T  
11-16-2003  
12-15-2003  
3-17-2002

W.B. Richardson M.I.  
Marg. McGuffin

Starns

Sherrill  
Grobbin  
Southwest Roy.  
Cosh

Schellinger  
E.G.  
2-19-87

St. Male

Springer  
H.A. Lemmon

Benchmark  
W.R. 901  
JIA 632

1CW-  
Wright  
Greg  
Dodd  
D. Jones  
Wright

Southwest Roy.

Tr. 33 | Tr. 23

McGuffin

M. Gresham,  
et al, M.I.

Southwest Roy.

Tr. 34 | Tr. 24

"Trow"

2 R.E.

Fisher, et al

Marg. McGuffin

Southwest Roy.

Tr. 25

Tr. 25

"Fee" T.H.  
Robert Mim  
D. Brown,

Southwest

0685

Tr 25

Tr. 25

Tr. 25

"Fee" T.H.  
Robert Mim  
D. Brown,

Saga Pet.  
6-20-77  
HBC  
L-58  
4092

36

Blanco Co.  
2006  
V. 6408  
7813

State

Southwest Roy

14204

Aghorn Oper.  
11333

48.16 Ac

48.24 Ac

Gonzales 31 Fed

Southwest Roy.  
(Belco, D/R)

14204

Gonzales 31 Fed

Marg. McGuffin

US M.I.

Southwest Roy

14204

Southwest Roy

Warren  
Amer.  
06-826 (A/R)

Tr. 35 | Tr. 20

Tr. 21

Warren-Amer.  
Aghorn  
Oper.  
to 4650  
06-1026  
Warren  
Am.-St.  
TD 4600  
D/A 10-2-64

Warren Am  
State  
TD 4600  
D/A 10-2-64

Yates Pet., et al  
2003  
V. 5222  
2T 91

LL & E

State

Southwest

OS 8102

TD 4535  
T/A 8-5-65

Tr. 1-B

TD 4541

Southwest

14204

Gonzales-  
U.S.  
Marg. Mc

5 Pet., et al  
2006  
V. 6409  
62 62

Cattle Land Oil  
A/H-St.  
SA Disc.

Tom Brown, Inc.  
to 4458

60.37 Ac

60.43 Ac

6

(Belco  
Coastal)  
TD 9105  
P/B 4489

(Belco)  
Read &  
Stevens-St.  
TD 9142  
64500

39.94 Ac

39.90 Ac

39.86 Ac

39.82 Ac

39.77 Ac

Read E. Stevens  
HBP  
L-191

Aghorn  
Oper.  
to 9242

Read & Stevens  
Belco-St.  
to 4506

5

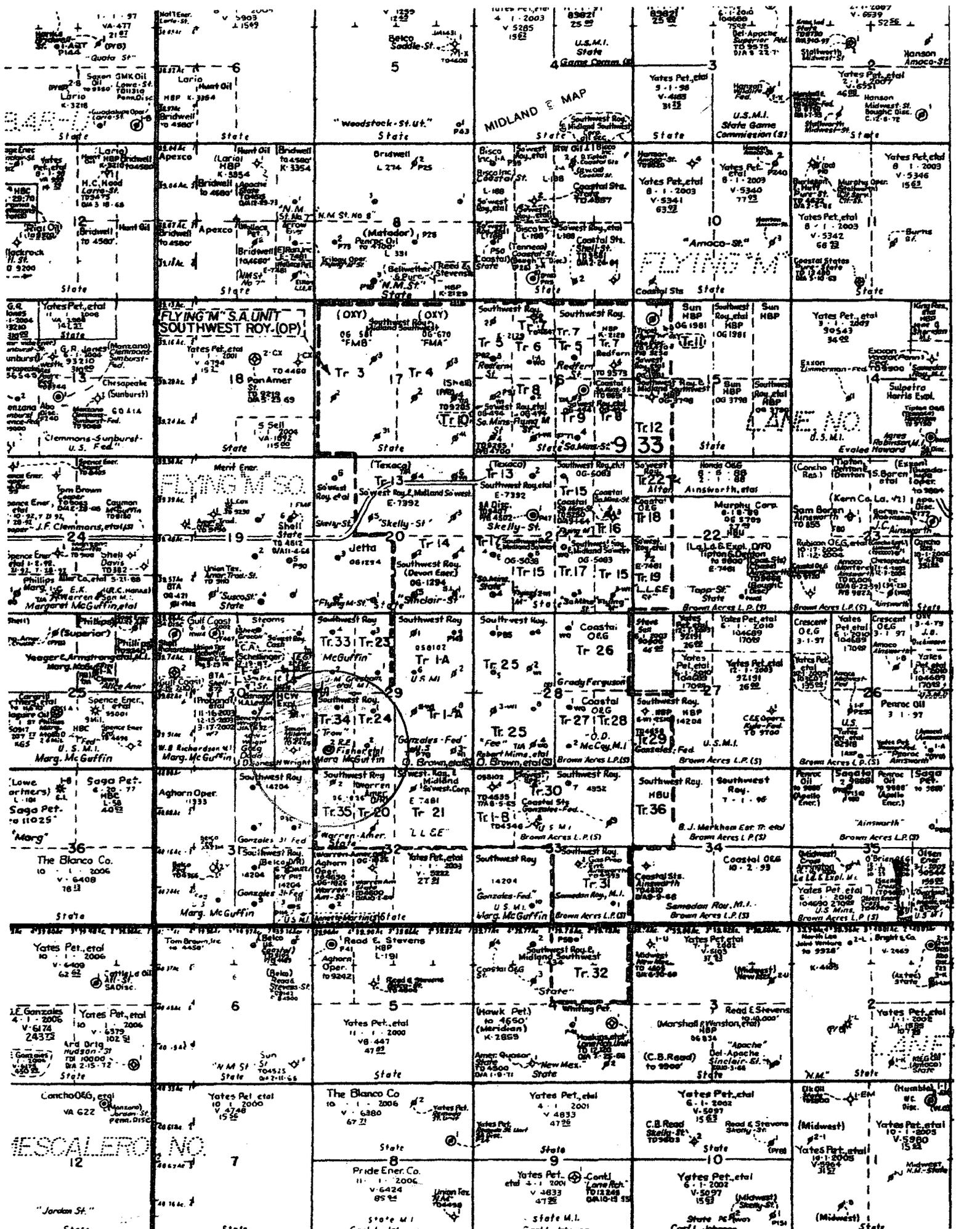
Yates Pet et al

Southwest

Coastal  
St.

Hawk  
to 46  
lateride





ESCALERO NO. 12

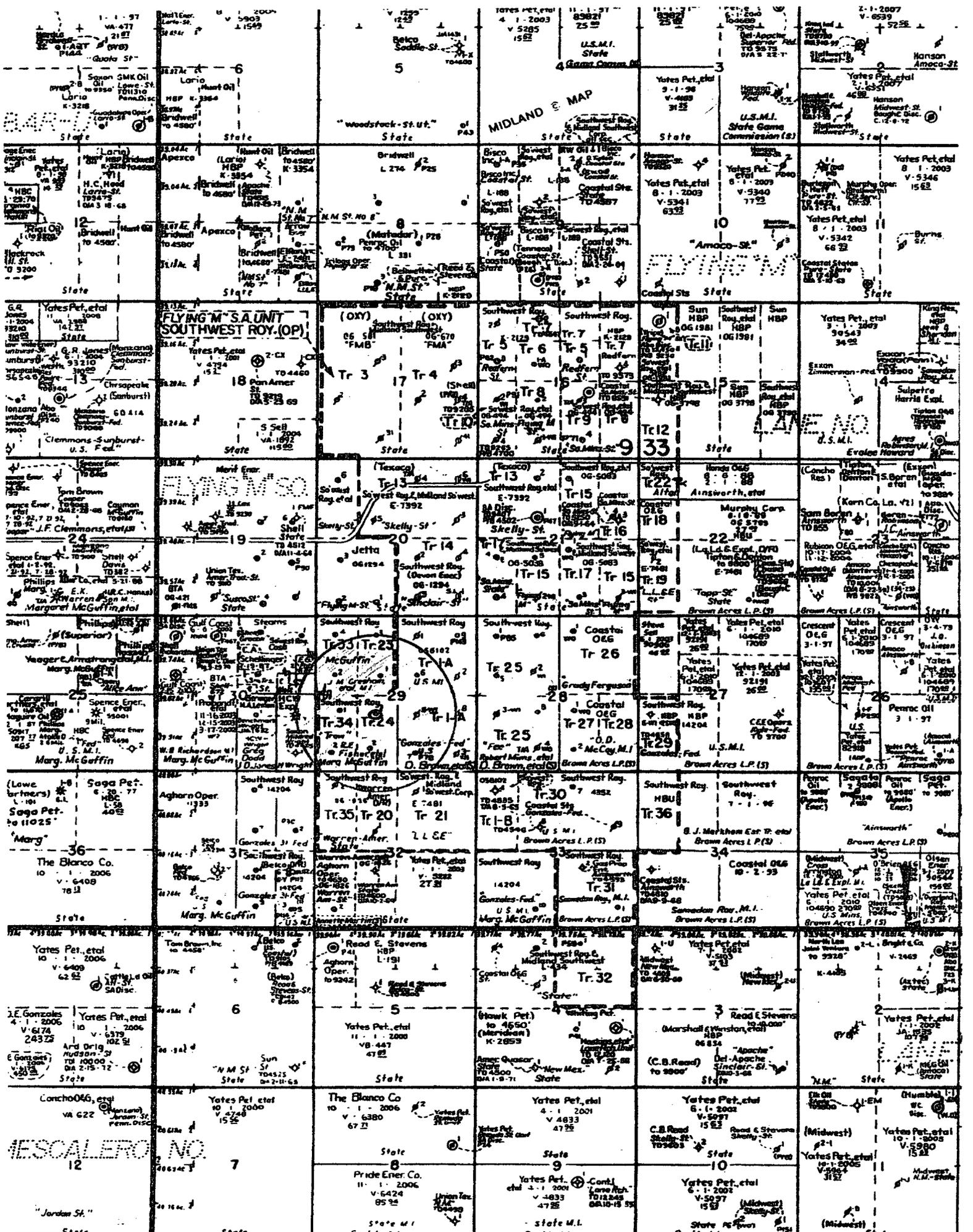
"Jordan St." State

State

State

State

State M.I. Carl L. Johnson



MIDLAND E. MAP

FLYING M S.A. UNIT  
SOUTHWEST ROY. (OP)

FLYING W S.O.

ESCALERO NO. 12

Jordan St.

7

8

9

10

11

12

13

14

Yates Pet. et al  
1-1-2006  
V. 6409  
62 52

Yates Pet. et al  
1-1-2006  
V. 6379  
402 52

Yates Pet. et al  
1-1-2006  
V. 4833  
47 95

Yates Pet. et al  
1-1-2006  
V. 5097  
15 52

Yates Pet. et al  
1-1-2006  
V. 5980  
15 52

Yates Pet. et al  
1-1-2006  
V. 5980  
15 52

Yates Pet. et al  
1-1-2006  
V. 6409  
62 52

Yates Pet. et al  
1-1-2006  
V. 6379  
402 52

Yates Pet. et al  
1-1-2006  
V. 4833  
47 95

Yates Pet. et al  
1-1-2006  
V. 5097  
15 52

Yates Pet. et al  
1-1-2006  
V. 5980  
15 52

Yates Pet. et al  
1-1-2006  
V. 5980  
15 52

Yates Pet. et al  
1-1-2006  
V. 6409  
62 52

Yates Pet. et al  
1-1-2006  
V. 6379  
402 52

Yates Pet. et al  
1-1-2006  
V. 4833  
47 95

Yates Pet. et al  
1-1-2006  
V. 5097  
15 52

Yates Pet. et al  
1-1-2006  
V. 5980  
15 52

Yates Pet. et al  
1-1-2006  
V. 5980  
15 52

Yates Pet. et al  
1-1-2006  
V. 6409  
62 52

Yates Pet. et al  
1-1-2006  
V. 6379  
402 52

Yates Pet. et al  
1-1-2006  
V. 4833  
47 95

Yates Pet. et al  
1-1-2006  
V. 5097  
15 52

Yates Pet. et al  
1-1-2006  
V. 5980  
15 52

Yates Pet. et al  
1-1-2006  
V. 5980  
15 52



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR  
SOUTHWEST ROYALTIES  
ATTN: KERRY MILLER  
6 DESTA DRIVE SUITE 2100  
MIDLAND, TX  
FAX TO:

Receiving Date: 08/08/05  
Reporting Date: 08/15/05  
Project Number: NOT GIVEN  
Project Name: NOT GIVEN  
Project Location: FLYING M FIELD

Sampling Date: 08/08/05  
Sample Type: WATER  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: NF/JD

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity ( $\mu$ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		08/09/05	08/09/05	08/09/05	08/09/05	08/09/05	08/09/05
H10055-1	-	1911	403	43	9.00	3801	122
Quality Control		NR	46	54	5.24	1391	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	92.0	108.0	105.0	98.4	NR
Relative Percent Difference		NR	1.0	1.6	5.6	4.9	NR
METHODS:		SM3500-Ca-D	3500-Mg E		8049	120.1	310.1

		Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		08/09/05	08/09/05	08/09/05	08/09/05	08/09/05	08/12/05
H10055-1	-	3099	830	0	148	7.12	6491
Quality Control		970	48.52	NR	985	7.10	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		97.0	97.0	NR	98.5	101	NR
Relative Percent Difference		3.0	4.8	NR	0.9	0	1.1
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Amy Hill  
Chemist

8/15/05  
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

INJECTION WELL DATA SHEET

197

OPERATOR: Southwest Royalties, Inc

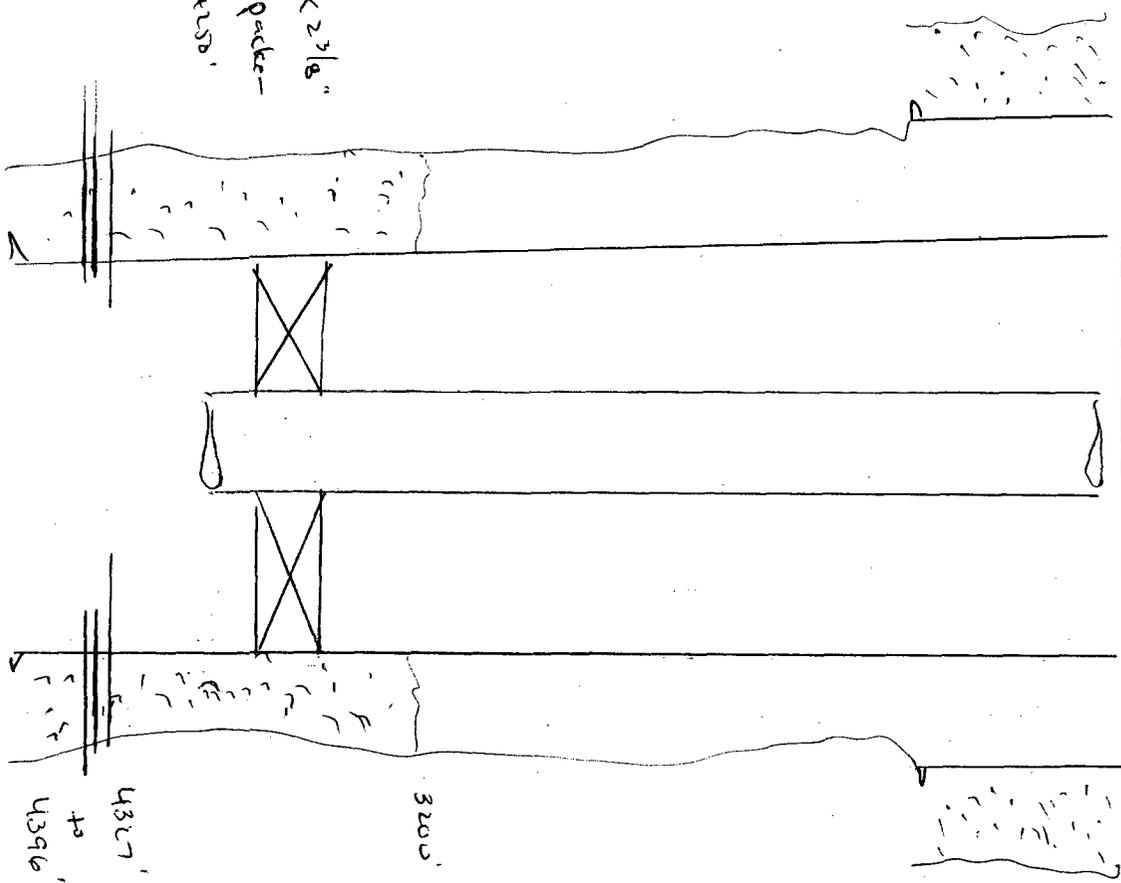
30-025-24693

WELL NAME & NUMBER: McGuffin Well #2

Date Drilled: 5/74

WELL LOCATION: 1980 FNL 660 FNL UNIT LETTER: E SECTION: 29 TOWNSHIP: 9 S RANGE: 32 E  
FOOTAGE LOCATION

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Hole Size: 11" Casing Size: 8 1/8" @ 407  
 Cemented with: 350 sx. or          ft<sup>3</sup>  
 Top of Cement: Surface Method Determined: Circ  
Intermediate Casing

Hole Size:          Casing Size:           
 Cemented with:          sx. or          ft<sup>3</sup>  
 Top of Cement:          Method Determined:           
Production Casing

Hole Size: 7 7/8" Casing Size: 4 1/2 @ 4440  
 Cemented with: 250 sx. or          ft<sup>3</sup>  
 Top of Cement: 3200 Method Determined: Calc  
 Total Depth: 4440

Injection Interval 4327 feet to 4396

(Perforated or Open Hole; indicate which)

4 1/2" x 2 3/8"  
40' packer-  
@ 4350'

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Informed Plastic Coating

Type of Packer: AD-1 (Tension)

Packer Setting Depth: 4250'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? Yes  No

If no, for what purpose was the well originally drilled? Oil Production

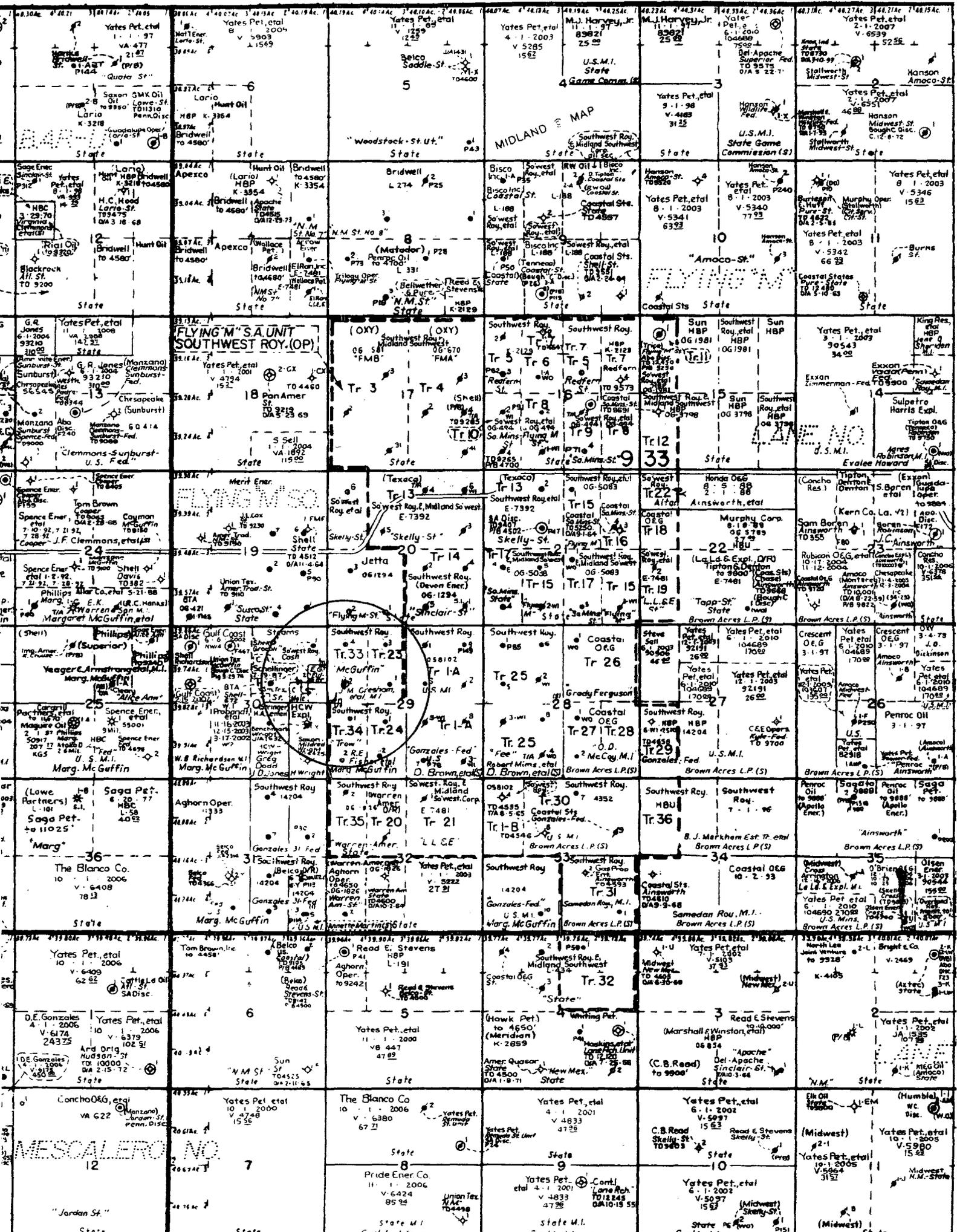
2. Name of the Injection Formation: San Andres

3. Name of Field or Pool (if applicable): Flying M

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Abso ± Basos

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Yates Pet. et al  
VA 477  
2127  
"Quito St."  
State

Yates Pet. et al  
V 5903  
1569  
"Woodstock St. U."  
State

Yates Pet. et al  
V 1259  
104600  
"Woodstock St. U."  
State

Yates Pet. et al  
V 2003  
V 5285  
1582  
"Game Comm. (S)"  
State

M.J. Harvey, Jr.  
V 11-1-1979  
25 02  
"U.S.M.I. State Game Commission (S)"  
State

Yates Pet. et al  
V 2-1-2007  
V 6539  
"Hanson Amoco-St."  
State

Saxon GMK Oil  
Lorio  
K 3218  
"State"

Hunt Oil  
Bridwell  
K 3354  
"State"

Bridwell  
L 274 P25  
"State"

Bisco Inc.  
V 1-1-2003  
V 5340  
"State"

Yates Pet. et al  
V 3-1-96  
V 4463  
3125  
"State"

Yates Pet. et al  
V 2-1-2003  
V 5346  
1582  
"State"

HBC  
V 3-23-70  
"State"

Hunt Oil  
Bridwell  
to 4580'  
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Southwest Roy.  
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Tr 6  
Tr 7  
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Tr 10  
"State"

Yates Pet. et al  
V 8-1-2003  
V 5341  
6323  
"State"

Yates Pet. et al  
V 8-1-2003  
V 5342  
6632  
"State"

G.R. Jones  
V 4-1-2004  
93210  
310 00  
"State"

Yates Pet. et al  
V 1-1-2001  
V 4794  
152  
"State"

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Yates Pet. et al  
V 9-1-2009  
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"State"

Yates Pet. et al  
V 9-1-2009  
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Spence Ener.  
V 7-20-92  
7-21-92  
7-22-92  
7-23-92  
7-24-92  
7-25-92  
7-26-92  
7-27-92  
7-28-92  
7-29-92  
7-30-92  
7-31-92  
"State"

Yates Pet. et al  
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Yates Pet. et al  
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Yates Pet. et al  
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"State"

Southwest Roy.  
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Tr 34  
Tr 35  
"State"

Yates Pet. et al  
V 10-1-2006  
V 6400  
62 02  
"State"

Yates Pet. et al  
V 10-1-2006  
V 6379  
102 51  
"State"

Yates Pet. et al  
V 11-1-2000  
V 447  
47 82  
"State"

Yates Pet. et al  
V 4-1-2001  
V 4833  
47 25  
"State"

Yates Pet. et al  
V 6-1-2002  
V 5097  
15 83  
"State"

Yates Pet. et al  
V 1-1-2005  
V 2905  
15 82  
"State"

Concho O&G, et al  
VA G22  
"State"

Yates Pet. et al  
V 10-1-2006  
V 6380  
67 12  
"State"

Yates Pet. et al  
V 4-1-2001  
V 4833  
47 25  
"State"

Yates Pet. et al  
V 6-1-2002  
V 5097  
15 83  
"State"

Yates Pet. et al  
V 1-1-2005  
V 2905  
15 82  
"State"

Yates Pet. et al  
V 10-1-2005  
V 2905  
15 82  
"State"

**Area of Review**  
**Application for Authorization to Inject**  
**McGuffin Well #2**

**McGuffin #1**

Location: 1980' FNL, 2155' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 8/66  
Total Depth: 4480'

Casing Record:

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

Completion:

8/66                      Perforated 4354'-81'. Acidize w/ 1000 gals.  
1967                      Add perms 4395'-4404'. Acidize w/4000 gals.

**McGuffin #3**

Location: 660' FNL, 1980' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 5/74  
Total Depth: 4449'

Casing Record:

Size	Depth	Sacks Cement
8 5/8"	408'	300
4 1/2"	4449'	250

Completion:

5/74                      Perforated 4354'-4422'. Acidize w/ 9000 gals.

**McGuffin #4**

Location: 660' FNL, 660' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 4/76  
Total Depth: 4456'

Casing Record:

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

Completion:

4/76                      Perforated 4309-82'. Acidize w/ 5000 gals.

**Flying M Unit #34-1**

Location: 2112' FSL, 796' FWL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 7/67

Total Depth: 4465'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	288'	200
4 1/2"	4465'	250

## Completion:

7/67	Perforated 4348'-83'. Acidize w/5000 gals.
1994	Add perfs 4399'-4405'. Acidize w/2600 gals.

**Flying M Unit #34-2**

Location: 660' FSL, 660' FWL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 12/85

Total Depth: 4404'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	1790'	900
5 1/2"	4404'	775

## Completion:

12/85	Perforated 4333'-81'. Acidize w/18000 gals.
-------	---

**Flying M Unit #24-2**

Location: 794' FSL, 1856' FWL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 7/67

Total Depth: 4460'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	279'	200
4 1/2"	4459'	250

## Completion:

7/67	Perforated 4367'-4404'. Acidize w/6000 gals.
1994	Add perfs 4422'-26'. Acidize w/3000 gals.

**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	Sacks Cement
8 5/8"	404'	300
4 1/2"	4450'	250

## Completion:

3/74 Perforated 4346' -84'. Acidize w/9000 gals.  
1994 Add perfs 4342' - 4412'. Acidize w/6800 gals.

**Flying M Unit #1A-6**

Location: 1980' FNL, 1980' FEL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 4/74

Total Depth: 4450'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	366'	300
4 1/2"	4450'	250

## Completion:

4/74 Perforated 4361' -4412'. Acidize w/9000 gals.

**Cash #1**

Location: 660' FNL, 460' FEL

Type: Oil

Sec 30, T9S, R33E

Date Drilled: 2/78

Total Depth: 4463'

## Casing Record:

Size	Depth	Sacks Cement
7 5/8"	1818'	750
4 1/2"	4463'	200

## Completion:

2/78 Perforated 4329' -74'. Acidize w/ 5000 gals.  
11/94 Add perfs 4393' -4415'. Acidize w/1000 gals.

**Cash #2**

Location: 1839' FNL, 519' FEL

Type: Oil

Sec 30, T9S, R33E

Date Drilled: 8/80

Total Depth: 4421'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	1805'	900
4 1/2"	4410'	450

## Completion:

2/78 Perforated 4329'-66'. Acidize w/ 5000 gals.

**Flying M State #1**

Location: 500' FSL, 1980' FWL

Type: Oil

Sec 20, T9S, R33E

Date Drilled: 8/76

Total Depth: 4500'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	371'	265
4 1/2"	4499'	1675

## Completion:

8/76 Perforated 4342'-4410'. Acidize w/ 10000 gals.

**Flying M State #2**

Location: 500' FSL, 710' FWL

Type: Oil

Sec 20, T9S, R33E

Date Drilled: 4/77

Total Depth: 4480'

## Casing Record:

Size	Depth	Sacks Cement
7"	1916'	525
4 1/2"	4480'	675

## Completion:

4/77 Perforated 4342'-98'. Acidize w/ 5000 gals.

**Shell Groebli #1**

Location: 525' FNL, 1840' FEL

Type: Oil

Sec 30, T9S, R33E

Date Drilled: 3/79

Total Depth: 4503'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	503'	325
4 1/2"	4503'	1000

Completion: 4/77 Perf 4308-78, acidize w/ 5000 gals

# SOUTHWEST ROYALTIES

PROJECT SHELL 672 LTD. #1  
1955' FNL + 1955' FEL

PAGE \_\_\_\_\_ OF \_\_\_\_\_  
BY \_\_\_\_\_ DATE \_\_\_\_\_

SEC 30, T9S, R33E

P+Ad 10/67

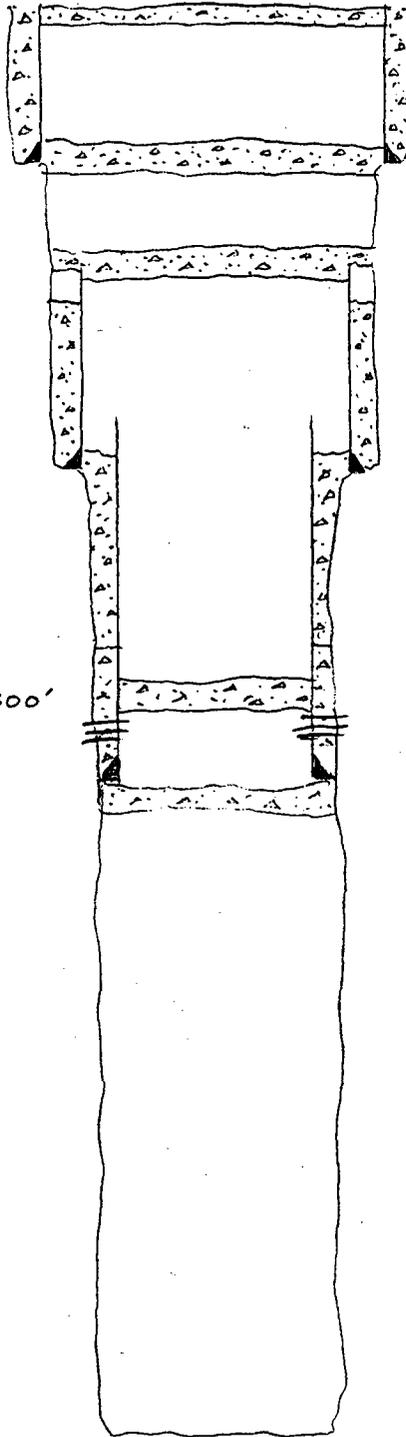
10 SX SURF PLUG

50 SX PLUG 335-405'

25 SX PLUG 1150-1210'  
8<sup>5</sup>/<sub>8</sub>" CUT @ 1210'

4<sup>1</sup>/<sub>2</sub>" CUT @ 3353'

25 SX PLUG 4120-4300'



12<sup>3</sup>/<sub>4</sub>" @ 370' CMTD w/150 SX

8<sup>5</sup>/<sub>8</sub>" @ 3670' CMTD w/300 SX

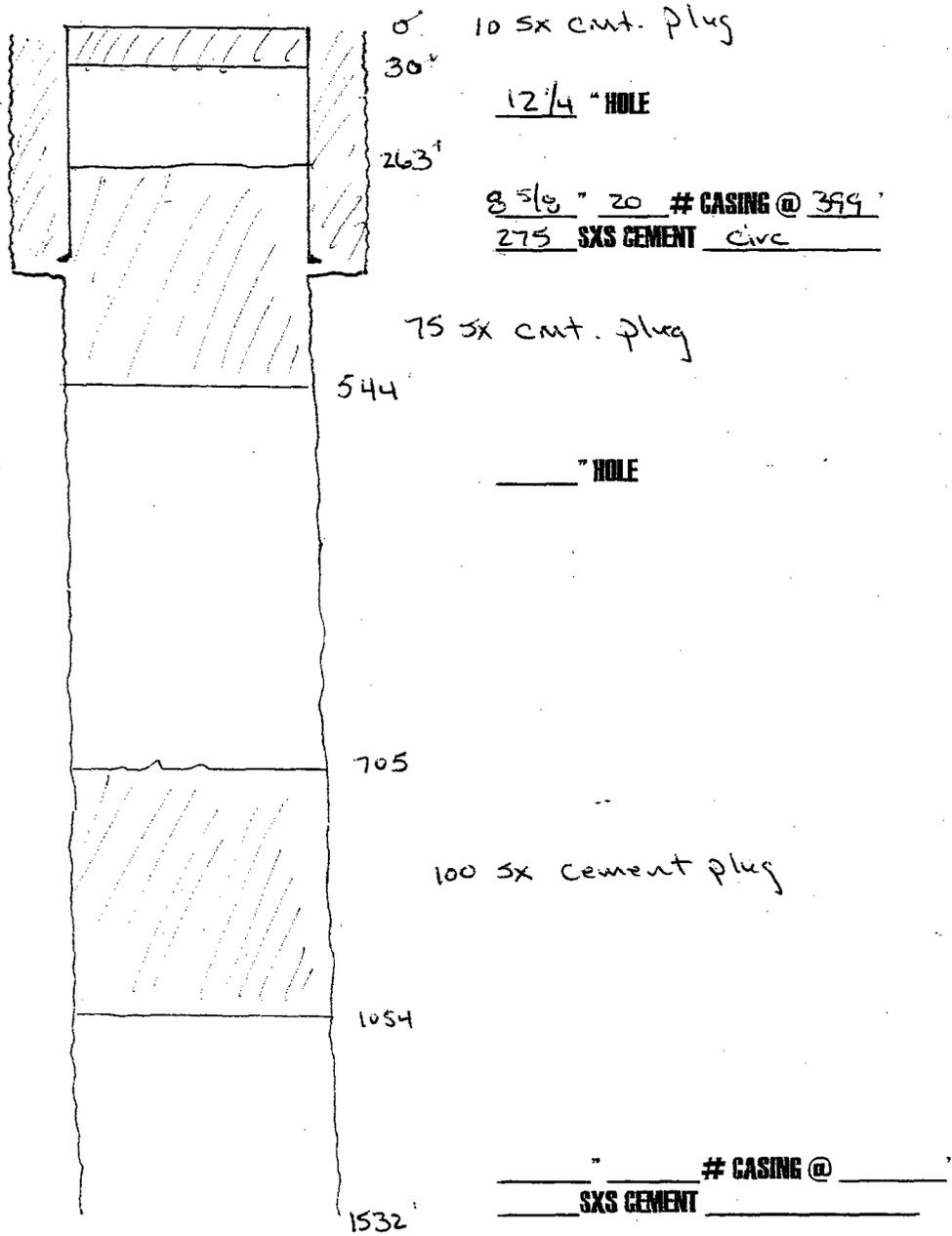
PERFS: 4305-40'

4<sup>1</sup>/<sub>2</sub>" @ 4487' CMTD w/275 SX

TD: 9150'

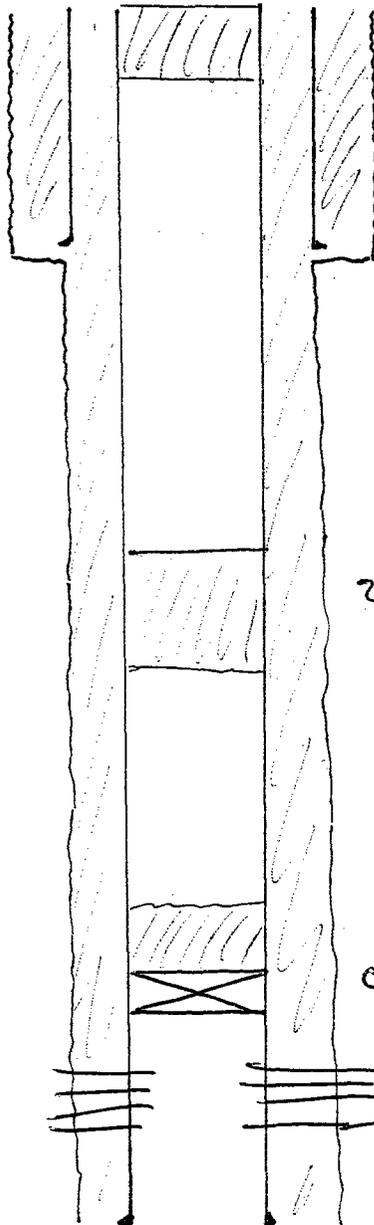
LEASE Wright WELL NO. 1 OPERATOR Benchmark Oil Co, Ltd.  
 TYPE Junked Abd DATE DRILLED 7/6/78 ELEV 4375 (GL)  
 LOCATION 1990 FT FROM THE S LINE 660 FT FROM THE E LINE  
 UNIT LETTER \_\_\_\_\_ SECTION 30 TOWNSHIP 9 S RANGE 33 E  
 COUNTY Lea STATE NM TO 1532

COMPLETION Severe shale sloughing @ 1532'  
Hole abandoned



LEASE Wright WELL NO. 1Y OPERATOR HCW Exploration  
 TYPE P/A DATE DRILLED 8/78 ELEV 4375  
 LOCATION 1880 FT FROM THE S LINE 160 FT FROM THE E LINE  
 UNIT LETTER \_\_\_\_\_ SECTION 30 TOWNSHIP 9S RANGE 33E  
 COUNTY Lea STATE NM TD 4500'

COMPLETION Perf 4329-31, 4334-45, 4349-53,  
4375-80, 4384-89, 4404-08  
IP 2780 95BW 430 MCF P/A 1986



10 sx plug @ surface (150')

12 1/4" HOLE

8 5/8" 20 # CASING @ 525'  
225 SXS CEMENT circ

7 7/8" HOLE

25 sx plug @ 1500' (320')

CIP @ 4250' w/35' cement

4329

4408

4 1/2" 10.5 # CASING @ 4500'  
700 SXS CEMENT circ

INJECTION WELL DATA SHEET

30-025-24692

OPERATOR: Southwest Royalties, Inc

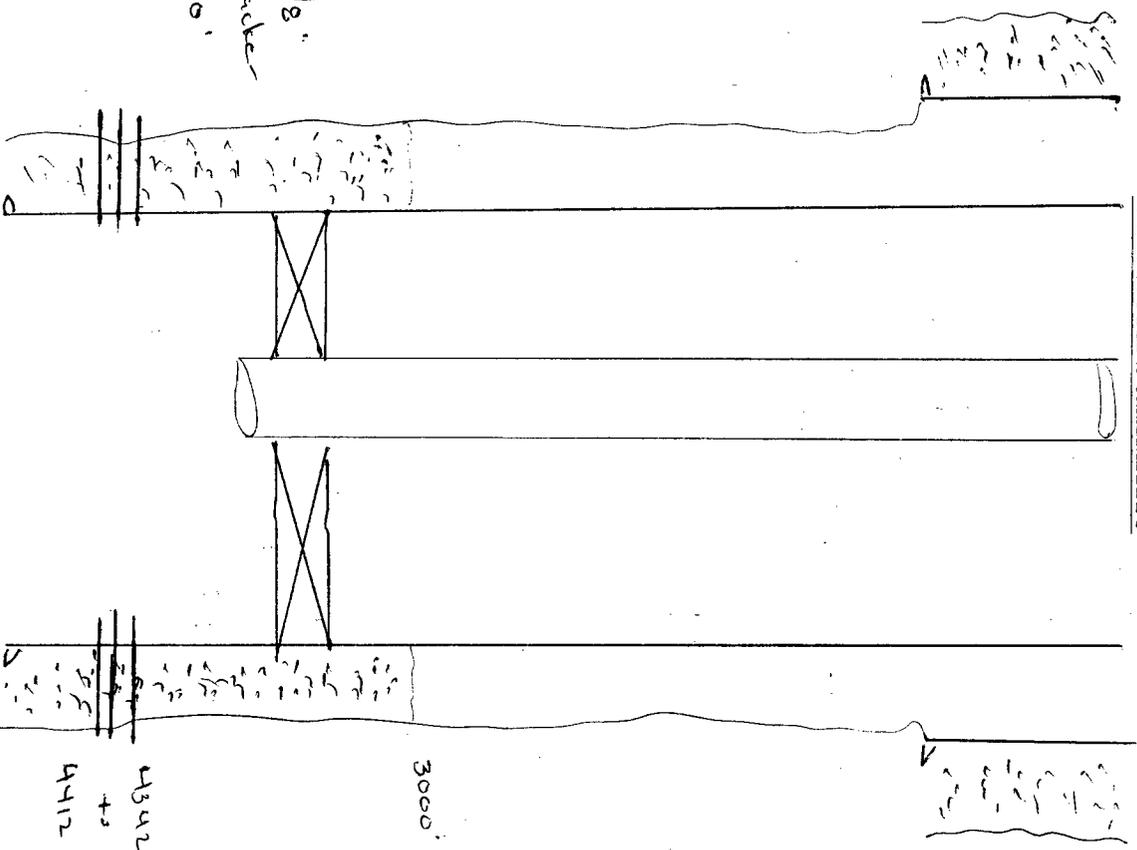
WELL NAME & NUMBER: Flying W Unit # 24-1

Date Drilled: 3/14

WELL LOCATION: 1480 FSL 1480 FUL UNIT LETTER K SECTION 29 TOWNSHIP 9S RANGE 33E

FOOTAGE LOCATION 1480 FSL 1480 FUL UNIT LETTER K SECTION 29 TOWNSHIP 9S RANGE 33E

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11" Casing Size: 8 5/8" @ 404'

Cemented with: 300 sx. or          ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circ

Intermediate Casing

Hole Size:          Casing Size:         

Cemented with:          sx. or          ft<sup>3</sup>

Top of Cement:          Method Determined:         

Production Casing

Hole Size: 7 7/8" Casing Size: 4 1/2" @ 4450'

Cemented with: 250 sx. or          ft<sup>3</sup>

Top of Cement: 3000' Method Determined: Calc

Total Depth: 4450'

Injection Interval

4342 feet to 4412

(Perforated or Open Hole; indicate which)

4 1/2 x 2 3/8"  
AD - 1 packer  
@ 4250'

4342  
+  
4412

3000'

404'

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Interned Plastic Coating

Type of Packer: AD-1 (Tension)

Packer Setting Depth: 4250'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? Yes \_\_\_\_\_ No X

If no, for what purpose was the well originally drilled? Oil Production

2. Name of the Injection Formation: San Andres

3. Name of Field or Pool (if applicable): Flying M

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Abo ± 8600'



**Area of Review**  
**Application for Authorization to Inject**  
**Flying M (SA) Unit #24-1**

**McGuffin #1**

Location: 1980' FNL, 2155' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 8/66  
Total Depth: 4480'

**Casing Record:**

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

**Completion:**

8/66                      Perforated 4354'-81'. Acidize w/ 1000 gals.  
1967                      Add perfs 4395'-4404'. Acidize w/4000 gals.

**McGuffin #2**

Location: 1980' FNL, 660' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 5/74  
Total Depth: 4440'

**Casing Record:**

Size	Depth	Sacks Cement
8 5/8"	407'	350
4 1/2"	4440'	250

**Completion:**

5/74                      Perforated 4340'-74'. Acidize w/ 4500 gals.  
5/74                      Squeeze perfs & reperf 4340'-64'  
5/00                      Add perfs 4386-96. Acidize w/2200 gals.

**McGuffin #3**

Location: 660' FNL, 1980' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 5/74  
Total Depth: 4449'

**Casing Record:**

Size	Depth	Sacks Cement
8 5/8"	408'	300
4 1/2"	4449'	250

**Completion:**

5/74                      Perforated 4354'-4422'. Acidize w/ 9000 gals.

**Flying M Unit #34-1**

Location: 2112' FSL, 796' FWL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 7/67

Total Depth: 4465'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	288'	200
4 1/2"	4465'	250

## Completion:

7/67	Perforated 4348'-83'. Acidize w/5000 gals.
1994	Add perfs 4399'-4405'. Acidize w/2600 gals.

**Flying M Unit #34-2**

Location: 660' FSL, 660' FWL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 12/85

Total Depth: 4404'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	1790'	900
5 1/2"	4404'	775

## Completion:

12/85	Perforated 4333'-81'. Acidize w/18000 gals.
-------	---

**Flying M Unit #24-2**

Location: 794' FSL, 1856' FWL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 7/67

Total Depth: 4460'

## Casing Record:

Size	Depth	Sacks Cement
8 5/8"	279'	200
4 1/2"	4459'	250

## Completion:

7/67	Perforated 4367'-4404'. Acidize w/6000 gals.
1994	Add perfs 4422'-26'. Acidize w/3000 gals.

**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	Sacks Cement
8 5/8"	404'	300
4 1/2"	4450'	250

Completion:

3/74 Perforated 4346'-84'. Acidize w/9000 gals.

1994 Add perfs 4342' - 4412'. Acidize w/6800 gals.

**Flying M Unit #1A-7**

Location: 659' FSL, 1991' FEL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 1974

Total Depth: 4429'

Casing Record:

Size	Depth	Sacks Cement
8 5/8"	342'	300
4 1/2"	4429'	250

Completion:

1974 Perforated 4356'-4427'. Acidize w/9000 gals.

**Flying M Unit #1A-6**

Location: 1980' FNL, 1980' FEL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 4/74

Total Depth: 4450'

Casing Record:

Size	Depth	Sacks Cement
8 5/8"	366'	300
4 1/2"	4450'	250

Completion:

4/74 Perforated 4361'-4412'. Acidize w/9000 gals.

**Flying M Unit #1A-5**

Location: 1980' FSL, 1983' FEL

Type: Injection

Sec 29, T9S, R33E

Date Drilled: 4/66

Total Depth: 4485'

Casing Record:

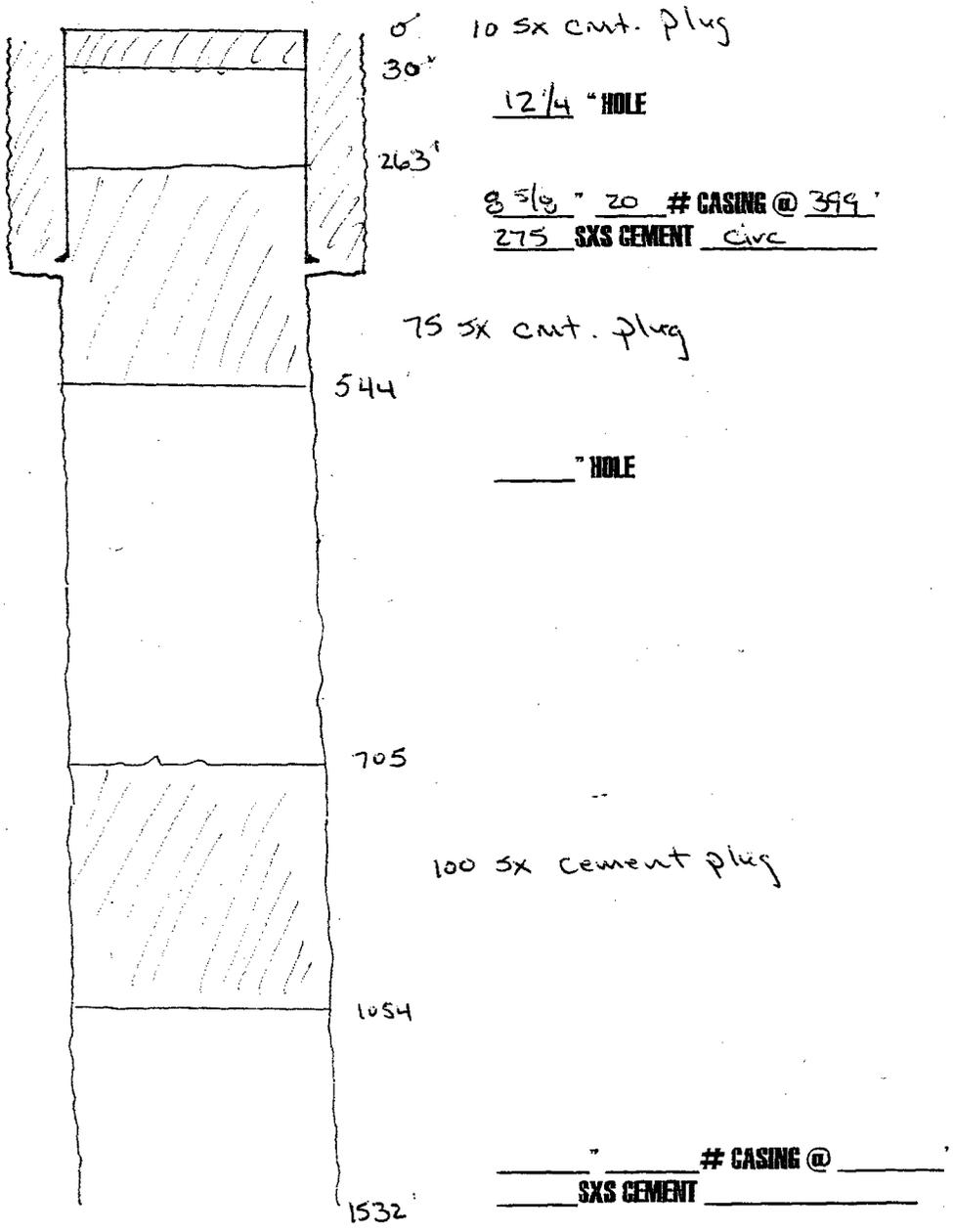
Size	Depth	Sacks Cement
8 5/8"	250'	200
4 1/2"	4485'	250

Completion:

4/66	Perforated 4350'-75'. Acidize w/10000 gals.
1967	Add perfs 4379'-4403'
1975	Convert to water injection. Packer @4300'.

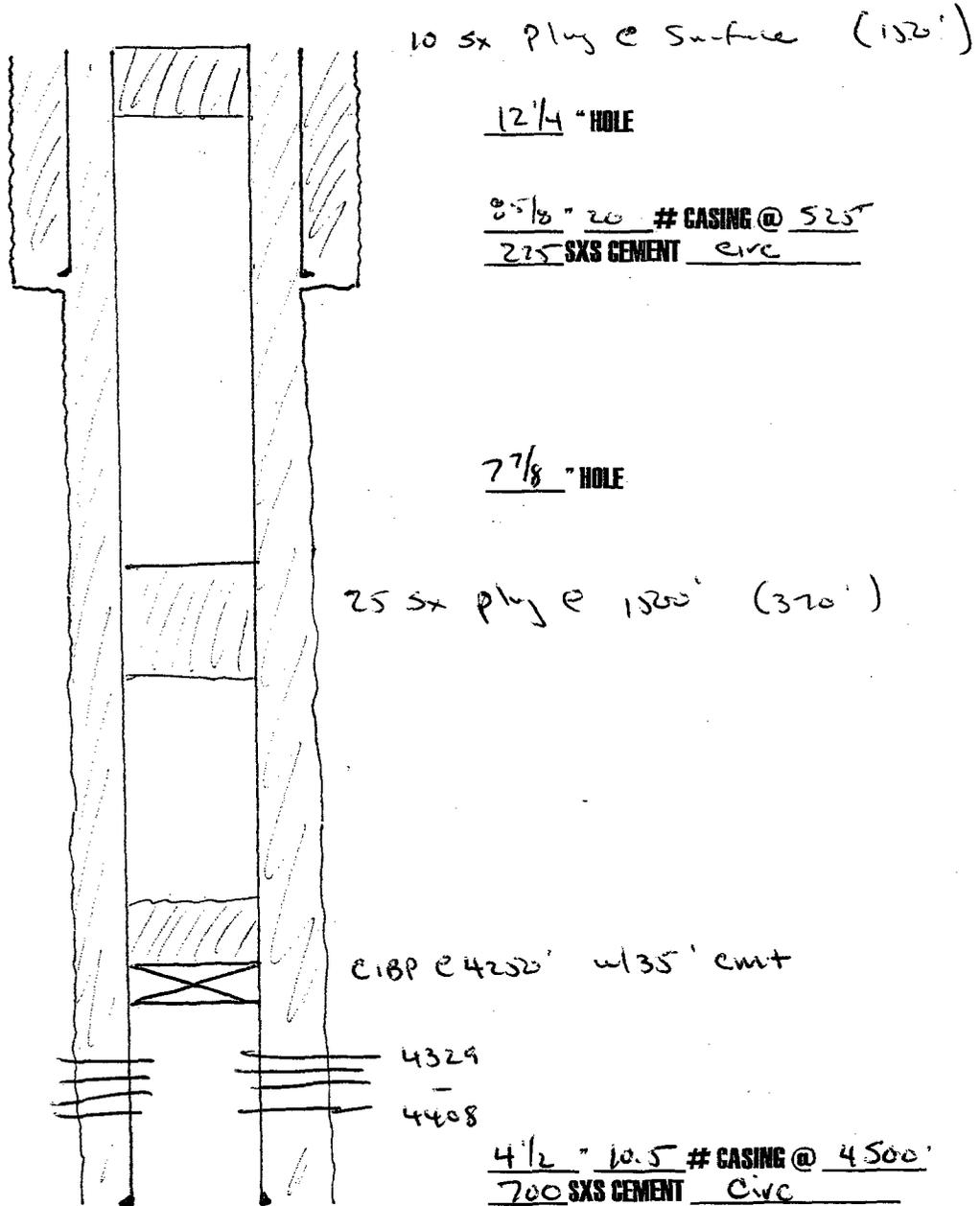
LEASE Wright WELL NO. 1 OPERATOR Benchmark Oil Co, Ltd.  
 TYPE Junct'd. Abd DATE DRILLED 7/6/78 ELEV 4375 (GL)  
 LOCATION 1980 FT FROM THE S LINE 460 FT FROM THE E LINE  
 UNIT LETTER \_\_\_\_\_ SECTION 30 TOWNSHIP 9 S RANGE 33 E  
 COUNTY Lea STATE NM TO 1532

COMPLETION Severe shale sloughing @ 1532'  
Hole abandoned



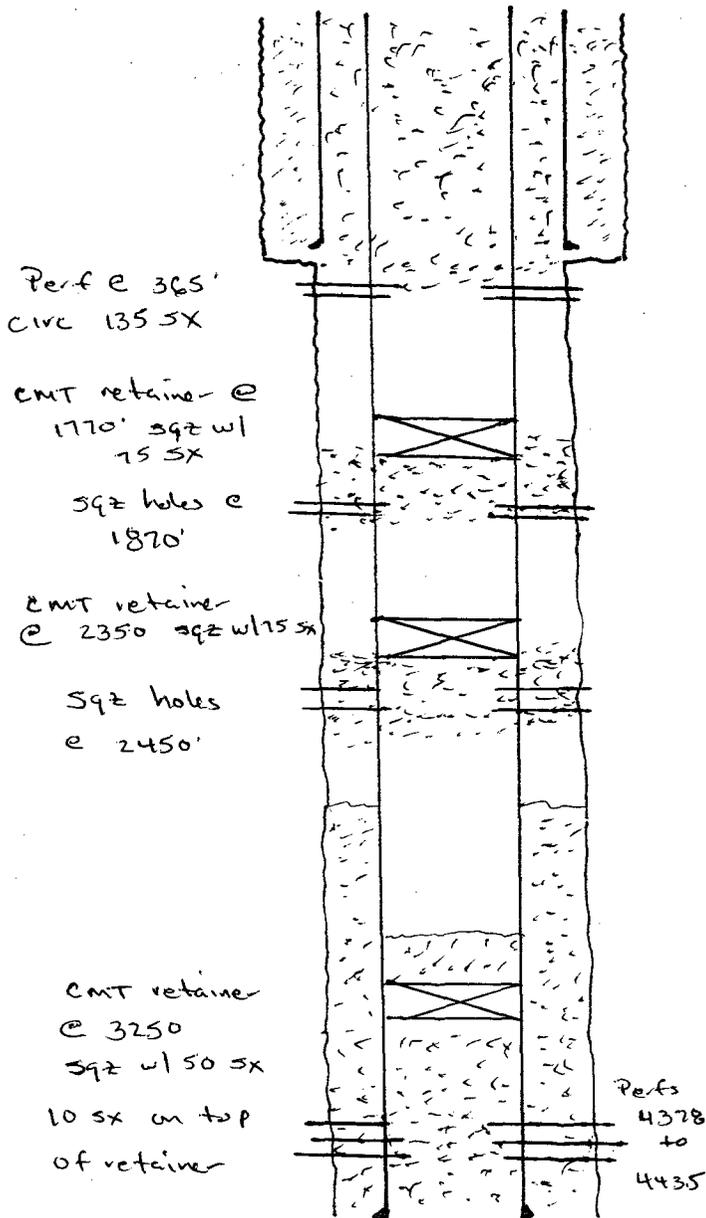
LEASE Wright WELL NO. 1Y OPERATOR HCW Exploration  
 TYPE P:A DATE DRILLED 8/78 ELEV 4375  
 LOCATION 1880 FT FROM THE S LINE 660 FT FROM THE E LINE  
 UNIT LETTER \_\_\_\_\_ SECTION 30 TOWNSHIP 9S RANGE 33E  
 COUNTY Lea STATE NM TD 4500

COMPLETION Perf 4329-31 4334-45 4349-53  
4375-80 4384-89 4404-08  
IP 2780 95BW 430 MCF P:A 1986



LEASE Flying M. Unit WELL NO. 1A-8 OPERATOR SWR  
 TYPE P.A DATE DRILLED 4/74 ELEV 4307  
 LOCATION 1480 FT FROM THE S LINE 660 FT FROM THE E LINE  
 UNIT LETTER I SECTION 29 TOWNSHIP 9S RANGE 33E  
 COUNTY Lea STATE NM TD 4490

COMPLETION 4/74 Perf 4378-4435 Acidize w/ 9000 gals.



12 1/4 " HOLE

8 5/8 " 32 # CASING @ 315 '  
350 SXS CEMENT CIRC

7 7/8 " HOLE

4 1/2 " 9.5 # CASING @ 4490 '  
250 SXS CEMENT TOC 3040 (Est.)

INJECTION WELL DATA SHEET

OPERATOR: Southwest Royalties Inc

30-025-29488

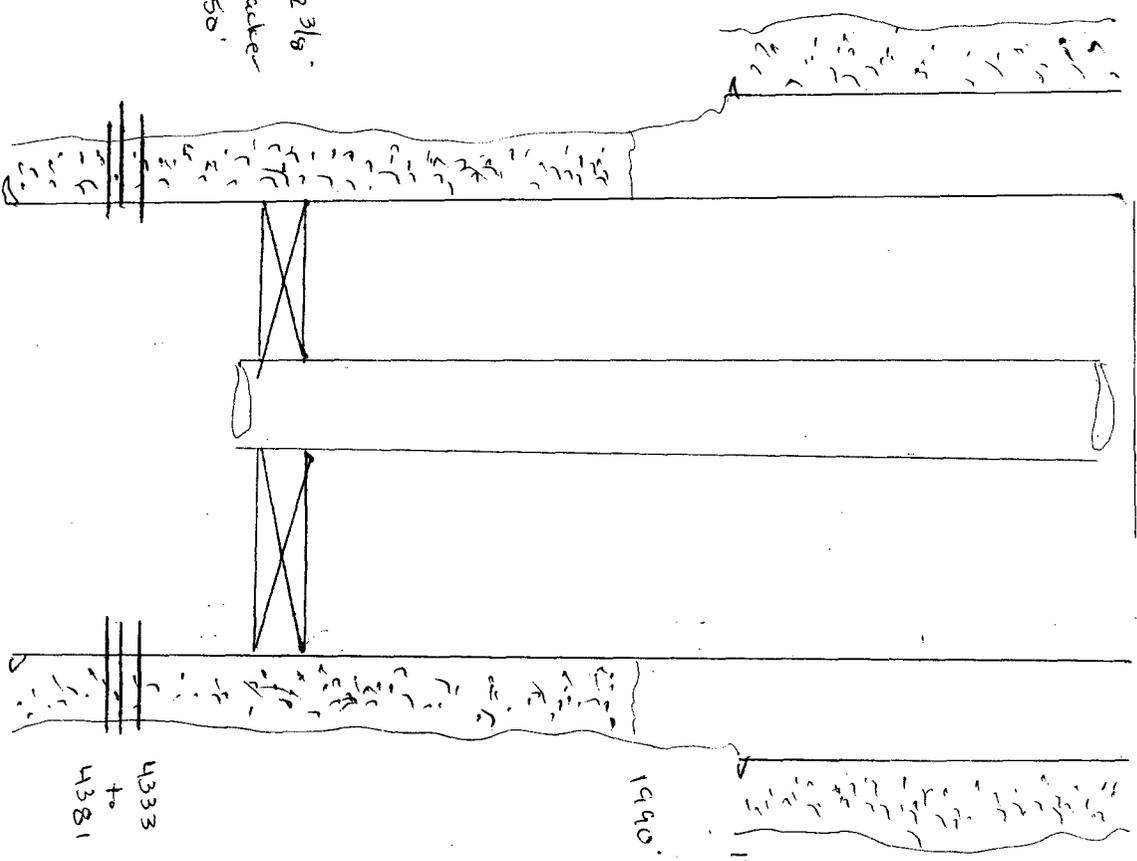
WELL NAME & NUMBER: Flying M Unit # 34-2

Date Filled: 12/85

WELL LOCATION: 460 FSL 460 FUL UNIT LETTER: M SECTION: 29 TOWNSHIP: 45 RANGE: 33E

FOOTAGE LOCATION: 460 FSL 460 FUL UNIT LETTER: M SECTION: 29 TOWNSHIP: 45 RANGE: 33E

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 1/4" Casing Size: 8 5/8" @ 1790'

Cemented with: 950 sx. OR          OR          ft<sup>3</sup>

Top of Cement: Surface Method Determined: CIRC

Intermediate Casing

Hole Size:          Casing Size:         

Cemented with:          sx. OR          OR          ft<sup>3</sup>

Top of Cement:          Method Determined:         

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 4404'

Cemented with: 775 sx. OR          OR          ft<sup>3</sup>

Top of Cement: 1950' Method Determined: CBL

Total Depth: 4404'

Injection Interval

4333' feet to 4381'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Internal Plastic Coating

Type of Packer: AD-1 (Tension)

Packer Setting Depth: 4250'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? Yes  No

If no, for what purpose was the well originally drilled? Oil Production

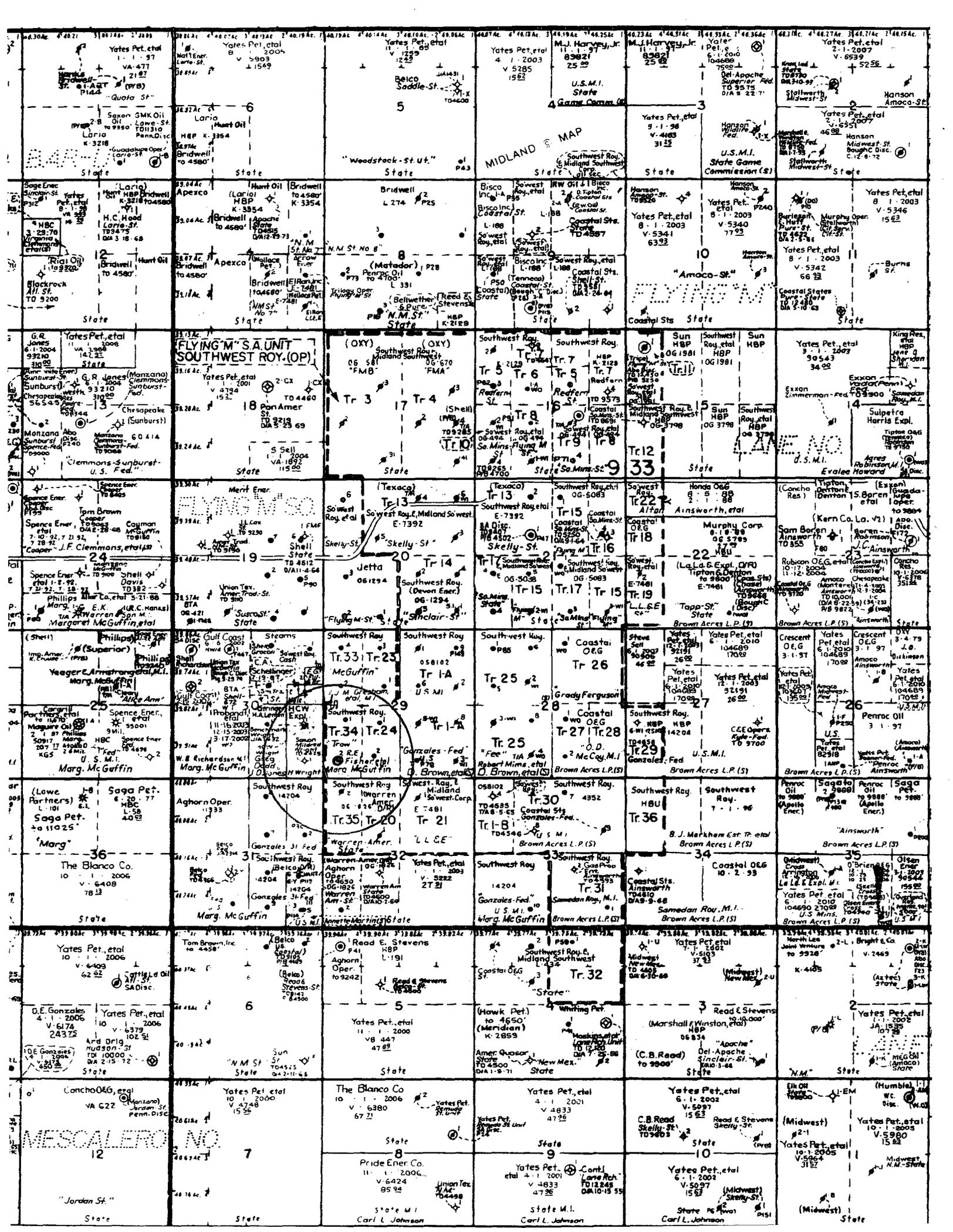
2. Name of the Injection Formation: Sav Andres

3. Name of Field or Pool (if applicable): Flying M

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Abb ± 2600'



**Area of Review**  
**Application for Authorization to Inject**  
**Flying M (SA) Unit #34-2**

**McGuffin #2**

Location: 1980' FNL, 660' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 5/74  
Total Depth: 4440'

**Casing Record:**

Size	Depth	Sacks Cement
8 5/8"	407'	350
4 1/2"	4440'	250

**Completion:**

5/74	Perforated 4340'-74'. Acidize w/ 4500 gals.
5/74	Squeeze perfs & reperf 4340'-64'
5/00	Add perfs 4386-96. Acidize w/2200 gals.

**Flying M Unit #34-1**

Location: 2112' FSL, 796' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 7/67  
Total Depth: 4465'

**Casing Record:**

Size	Depth	Sacks Cement
8 5/8"	288'	200
4 1/2"	4465'	250

**Completion:**

7/67	Perforated 4348'-83'. Acidize w/5000 gals.
1994	Add perfs 4399'-4405'. Acidize w/2600 gals.

**Flying M Unit #24-2**

Location: 794' FSL, 1856' FWL  
Type: Oil

Sec 29, T9S, R33E  
Date Drilled: 7/67  
Total Depth: 4460'

**Casing Record:**

Size	Depth	Sacks Cement
8 5/8"	279'	200
4 1/2"	4459'	250

**Completion:**

7/67	Perforated 4367'-4404'. Acidize w/6000 gals.
1994	Add perfs 4422'-26'. Acidize w/3000 gals.

**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	Sacks Cement
8 5/8"	404'	300
4 1/2"	4450'	250

**Completion:**

3/74

Perforated 4346'-84'. Acidize w/9000 gals.

1994

Add perfs 4342' - 4412'. Acidize w/6800 gals.

**Flying M Unit #1A-7**

Location: 659' FSL, 1991' FEL

Type: Oil

Sec 29, T9S, R33E

Date Drilled: 1974

Total Depth: 4429'

**Casing Record:**

Size	Depth	Sacks Cement
8 5/8"	342'	300
4 1/2"	4429'	250

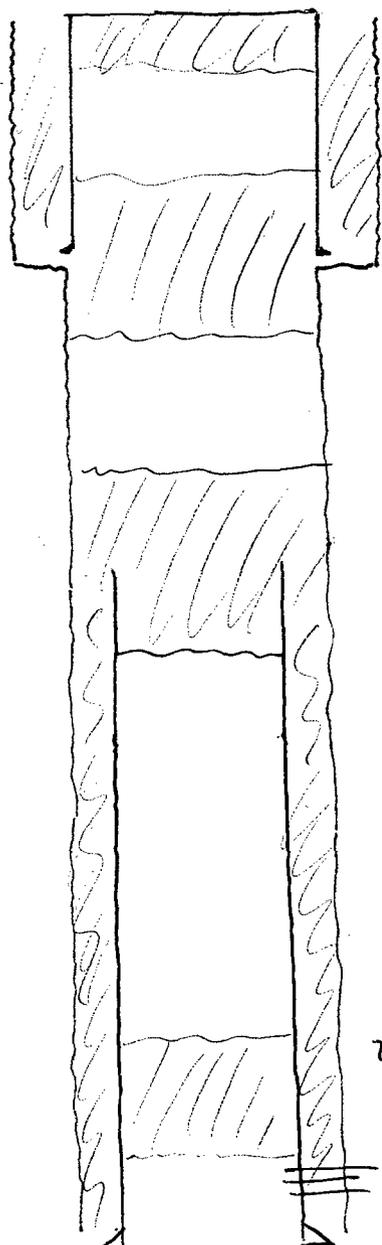
**Completion:**

1974

Perforated 4356'-4427'. Acidize w/9000 gals.

LEASE Mildred wright WELL NO. 1 OPERATOR Saxon oil  
 TYPE Dry Hole DATE DRILLED 6/72 ELEV 4344  
 LOCATION 659 FT FROM THE S LINE 659 FT FROM THE E LINE  
 UNIT LETTER \_\_\_\_\_ SECTION 30 TOWNSHIP 9S RANGE 33E  
 COUNTY Lea STATE NM TO 4425

COMPLETION Perf 4317-4360 Acidize w/ 6000 gals  
Swab test  
Plug 6/1/73



5 sx plug @ surface

10 3/4" HOLE

8 5/8" 20 # CASING @ 375'  
275 SXS CEMENT cvc

35 sx plug 425-325

7 3/4" HOLE

cut & pull casing @ 1209'

30 sx plug 1260-1160'

25 sx plug 4360-410

4 1/2" 9.5 # CASING @ 4413'  
200 SXS CEMENT

WA state

2

LEASE Flying M Unit WELL NO. 35-2 OPERATOR SWR  
 TYPE P: A DATE DRILLED 1967 ELEV 4325  
 LOCATION 469 FT FROM THE N LINE 660 FT FROM THE W LINE  
 UNIT LETTER D SECTION 32 TOWNSHIP 9S RANGE 33E  
 COUNTY Lea STATE NM TD 4440

COMPLETION (67) perf 4344-83 Acidize w/ 9000 gals.

P: A 1969

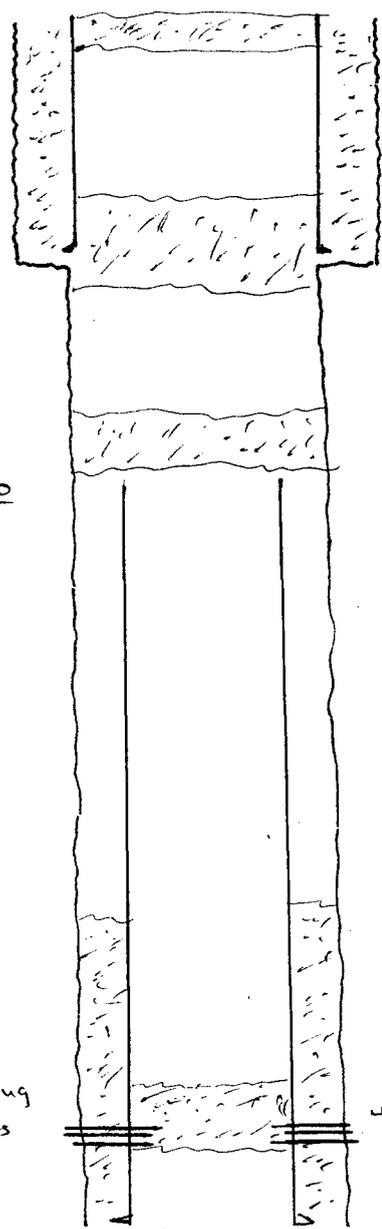
10 sx  
Surface plug

30 sx plus  
200-300'

30 sx plus  
1360-1460'

cut casing @  
1494'

30 sx plug  
across perfs



12 1/4" HOLE

8 5/8" 32 # CASING @ 286'  
200 SXS CEMENT

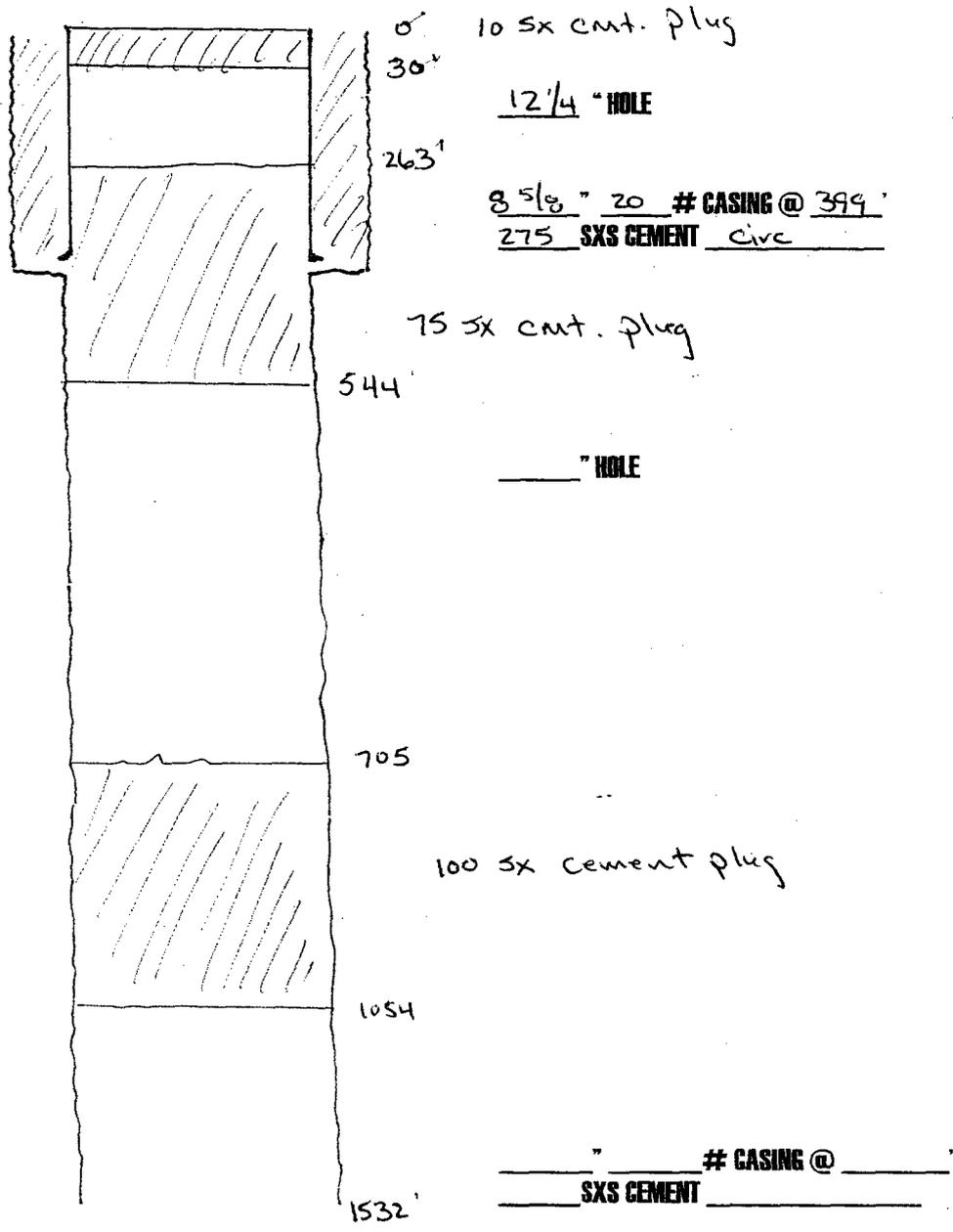
7 7/8" HOLE

4 1/2" 105 # CASING @ 4438'  
250 SXS CEMENT

TD 4440'

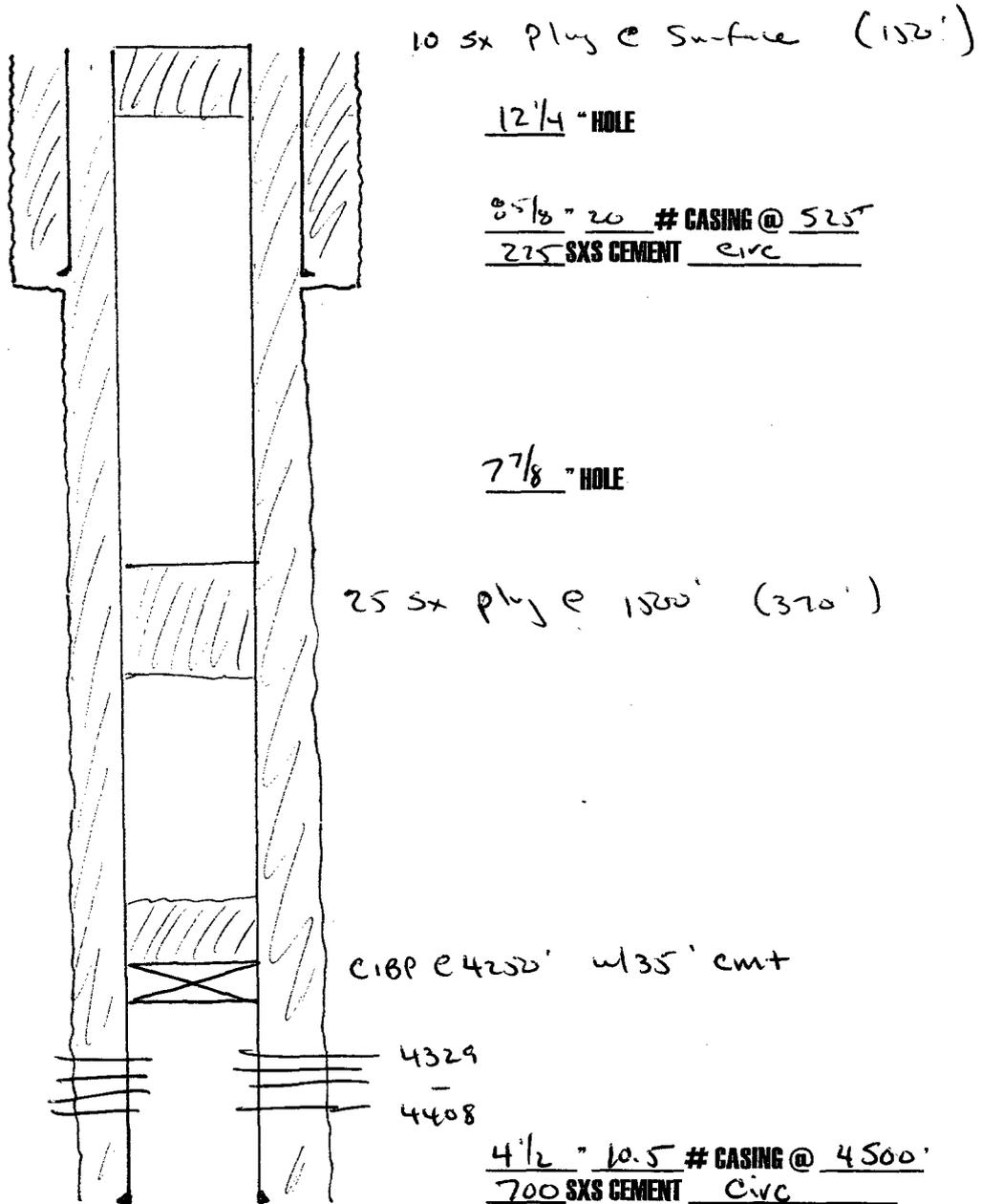
LEASE Wright WELL NO. 1 OPERATOR Benchmark Oil Co, Ltd.  
 TYPE Junked' Abd DATE DRILLED 7/6/78 ELEV 4375 (GL)  
 LOCATION 1980 FT FROM THE S LINE 460 FT FROM THE E LINE  
 UNIT LETTER \_\_\_\_\_ SECTION 30 TOWNSHIP 9 S RANGE 33 E  
 COUNTY Lea STATE NM TD 1532

COMPLETION Severe shale sloughing @ 1532'  
hole abandoned



LEASE Wright WELL NO. 1Y OPERATOR HCW Exploration  
 TYPE P:A DATE DRILLED 8/78 ELEV 4375  
 LOCATION 1880 FT FROM THE S LINE 660 FT FROM THE E LINE  
 UNIT LETTER \_\_\_\_\_ SECTION 30 TOWNSHIP 9S RANGE 33E  
 COUNTY Lea STATE NM TD 4500'

COMPLETION Perf 4329-31, 4339-45, 4349-53,  
4375-80, 4384-89, 4404-08  
IP 2760 95BW 430 MCF P:A 1986





SOUTHWEST ROYALTIES, INC.

SOUTHWEST ROYALTIES, INC.  
6 Desta Drive, Suite 2100  
Midland, Texas 79705  
(432) 686-9927, (800) 658-6227

Wednesday, August 31, 2005

Offset Operators, Producers & Surface Owners  
(per attached listing)

Re: Application for Authorization to Inject  
Lea County, New Mexico

Dear Ladies and Gentlemen:

Enclosed please find Southwest Royalties Inc.'s Application for Authorization to Inject for the conversion of three wells into water injection wells for the purpose of waterflooding in the Flying "M" (SA) Field in Section 29, T9S, R33E, Lea County, New Mexico.

Please let me know if you need additional information.

Sincerely,

*Dawn M. Howard*  
Operations Assistant  
Southwest Royalties, Inc./Clayton Williams Energy  
6 Desta Drive, Ste 2100  
Midland, Texas 79705  
432/688-3267  
432/688.3268 fax

enclosed: Form C-108, Legal Notice, Affidavit of Publication & Plat

**Flying M Field, Section 29**  
**Offset Operators, Producers & Surface Owners**

Merit Energy Company  
13727 Noel Road, Suite 500  
Dallas, Texas 75240

Sundown Energy LP  
Two Galleria Tower  
13455 Noel Road, Suite 2000  
Dallas, Texas 75240

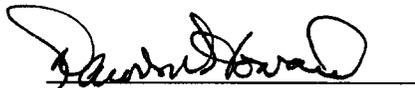
John R. Stearns, et ux Lou Ann  
Stearns, d/b/a Stearns  
P.O. Box 988  
Crossroads, NM 87114

Dale Todd or Vanica Todd  
P.O. Box 310  
Boxque, NM 87006

Joseph E. & Twila M. Goodding  
1009 Crestview Circle  
Farmington, NM 87401

Laura Kaempf, ssp  
1325 Valley View Road, Apt. 302  
Glendale, CA 91202

I, Dawn M. Howard, certify that a true and correct copy of the Application to Inject Fluid a Reservoir Productive of Oil and Gas has been mailed to the above parties by Certified Return Receipt mail.

  
Dawn M. Howard

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: 6 Desta Drive Midland, Texas 79705

CONTACT PARTY: Kerry Miller PHONE: 432-688-3221

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: R-3229, R-3033, R-6171

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).

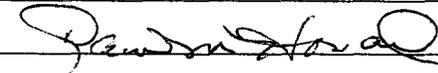
\*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: DAWN M. HOWARD TITLE: OPERATIONS ASSISTANT

SIGNATURE:  DATE: 8/31/05

E-MAIL ADDRESS: dhoward@claytonwilliams.com

\* 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.

## LEGAL NOTICE

Southwest Royalties, Inc., intends to convert to water injection three (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 1000 BWPD @ 1200 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' - 4364' at a maximum rate and pressure of 1000 BWPD @ 1200 PSI.

Flying "M" (SA) Unit Tract 24 Well #1, located 1980' FSL & 1980' FWL of Section 24, T-9-S, R-33-E, Unit Letter K in Lea County, New Mexico. Injection will be to provide pressure maintenance in the San Andres formation from 4342' - 4412' at a maximum rate and pressure of 1000 BWPD @ 1200 PSI.

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

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

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

Attn: Dawn Howard  
Southwest Royalties, Inc.  
6 Desta Drive, Suite 2100  
Midland, Texas 79705

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a 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 August 13 2005 and ending with the issue dated August 13 2005

*Kathi Bearden*  
Publisher

Sworn and subscribed to before me this 15th day of

August 2005  
*Dora Montz*  
Notary Public.

My Commission expires February 07, 2009  
(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

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  
August 13, 2005

Southwest Royalties, Inc., intends to convert to water injection three (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 fro 4333' - 4381' at a maximum rate and pressure of 1000 BWPD @ 1200 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' - 4364' at a maximum rate and pressure of 1000 BWPD @ 1200 PSI.  
Flying "M" (SA) Unit Tract 24 Well #1, located 1980' FSL & 1980' FWL of Section 24, T-9-S, R-33-E, Unit Letter K in Lea County, New Mexico. Injection will be to provide pressure maintenance in the San Andres formation from 4342' - 4412' at a maximum rate and pressure of 1000 BWPD @ 1200 PSI.  
Interested parties must file objections or request for hearings within 15 days to the following:  
NM Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501  
#21720

01101469000 67532551  
SOUTHWEST ROYALTIES, INC.  
P.O. BOX 11390  
MIDLAND, TX 79702

09088

ons-Sunburst-  
S. Fed."

1-1-2004  
VA-1892  
11500

State

TD9255  
P/B 4700

Spence Ener.  
To 8405

39.30 Ac Merit Ener.

(Texas)  
Tr 13

(Texas)  
Tr 13

Brown  
1063  
1-28-68  
Coyman  
McGuffin  
TD8150

39.39 AC  
J.L. Cox  
TD 9230  
Amer. Trad.  
TD 9150  
Shell  
State  
TD 4512  
D/All-4-64  
P90

Southwest Roy. et al  
Southwest Roy. E. Midland Southwest  
E-7392  
Skelly-St.  
"Skelly-St"

Southwest Roy  
E-7392

8A Disc.  
109407  
P/B 4502  
Skelly-S

24  
Shells  
Davis  
TD 382

39.48 Ac  
Union Tex.  
Amer. Trad.-St.  
TD 9110  
"Susco-St."  
State

Jetta  
061294  
Southwest Roy.  
(Devon Ener.)  
06-1294

Tr 17  
Southwest  
E. Midland  
06-50  
Tr  
"S.A. Minn.  
State"  
"Flyin  
M"

Co., et al 5-21-88  
E.K. (R.C. Hank)  
arren  
Son M.  
McGuffin, et al

39.57 Ac  
BTA  
06-421  
"Susco-St."  
State

"Flying M-St."  
State  
"Sinclair-St"

Tr 17  
Southwest  
E. Midland  
06-50  
Tr  
"S.A. Minn.  
State"  
"Flyin  
M"

Phillips  
Superior)

39.74 Ac  
Gulf Coast  
6-6-2002  
NWA  
Shell  
Richardson  
Union Tex.  
McGuffin  
C. Disc  
Fig. 3-29-78  
Schellinger  
E.G.  
20-19-87

Southwest Roy.  
Tr. 33 | Tr. 23  
"McGuffin"

Southwest  
0685

Armstrong et al, M.L.  
J. McGuffin  
"Alice Ann"

39.74 Ac  
Gulf Coast  
2-15-2002  
W.T.  
Probant  
et al  
11-16-2003  
12-15-2003  
3-17-2002  
W.8 Richardson M.I.  
Marg. McGuffin

Southwest Roy.  
Tr. 33 | Tr. 23  
"McGuffin"

Tr 25  
05

25  
Spence Ener.  
1 et al  
9 Mil.  
55001

39.82 Ac  
Gulf Coast  
2-15-2002  
W.T.  
Probant  
et al  
11-16-2003  
12-15-2003  
3-17-2002  
W.8 Richardson M.I.  
Marg. McGuffin

Southwest Roy.  
Tr. 34 | Tr. 24  
"Trow"  
2 R.E.  
Fisher, et al  
Marg McGuffin

Tr 25  
3-wi

HBC  
Spence Ener  
Fed" TD 4698  
S. M.I.  
McGuffin

39.91 Ac  
W.8 Richardson M.I.  
Marg. McGuffin

Southwest Roy.  
Tr. 34 | Tr. 24  
"Trow"  
2 R.E.  
Fisher, et al  
Marg McGuffin

Tr 25  
"Fee" Tr  
Robert Mim  
D. Brown,

10  
Saga Pet.  
6-20-77  
HBC  
L-58  
4052

40.08 Ac  
Aghorn Oper.  
11333

Southwest Roy.  
14204  
Southwest Roy.  
2 Warren  
06-926  
0AR1  
Tr. 35 | Tr. 20  
Tr. 21  
"Warren-Amr.  
State"

Southwest  
058102  
TD 4535  
T/A 8-5-65  
Tr. 1-8  
TD 4541

36  
Blanco Co.  
1-2006  
V-6408  
7813

40.16 Ac  
Belco  
Fed  
TD 4366

Southwest Roy.  
14204  
Southwest Roy.  
2 Warren  
06-926  
0AR1  
Tr. 35 | Tr. 20  
Tr. 21  
"Warren-Amr.  
State"

Southwest  
058102  
TD 4535  
T/A 8-5-65  
Tr. 1-8  
TD 4541

36  
Blanco Co.  
1-2006  
V-6408  
7813

40.16 Ac  
Belco  
Fed  
TD 4366

Southwest Roy.  
14204  
Southwest Roy.  
2 Warren  
06-926  
0AR1  
Tr. 35 | Tr. 20  
Tr. 21  
"Warren-Amr.  
State"

Southwest  
058102  
TD 4535  
T/A 8-5-65  
Tr. 1-8  
TD 4541

36  
Blanco Co.  
1-2006  
V-6408  
7813

40.16 Ac  
Belco  
Fed  
TD 4366

Southwest Roy.  
14204  
Southwest Roy.  
2 Warren  
06-926  
0AR1  
Tr. 35 | Tr. 20  
Tr. 21  
"Warren-Amr.  
State"

Southwest  
058102  
TD 4535  
T/A 8-5-65  
Tr. 1-8  
TD 4541

36  
Blanco Co.  
1-2006  
V-6408  
7813

40.16 Ac  
Belco  
Fed  
TD 4366

Southwest Roy.  
14204  
Southwest Roy.  
2 Warren  
06-926  
0AR1  
Tr. 35 | Tr. 20  
Tr. 21  
"Warren-Amr.  
State"

Southwest  
058102  
TD 4535  
T/A 8-5-65  
Tr. 1-8  
TD 4541

36  
Blanco Co.  
1-2006  
V-6408  
7813

40.16 Ac  
Belco  
Fed  
TD 4366

Southwest Roy.  
14204  
Southwest Roy.  
2 Warren  
06-926  
0AR1  
Tr. 35 | Tr. 20  
Tr. 21  
"Warren-Amr.  
State"

Southwest  
058102  
TD 4535  
T/A 8-5-65  
Tr. 1-8  
TD 4541

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Blanco Co.  
1-2006  
V-6408  
7813

40.16 Ac  
Belco  
Fed  
TD 4366

Southwest Roy.  
14204  
Southwest Roy.  
2 Warren  
06-926  
0AR1  
Tr. 35 | Tr. 20  
Tr. 21  
"Warren-Amr.  
State"

Southwest  
058102  
TD 4535  
T/A 8-5-65  
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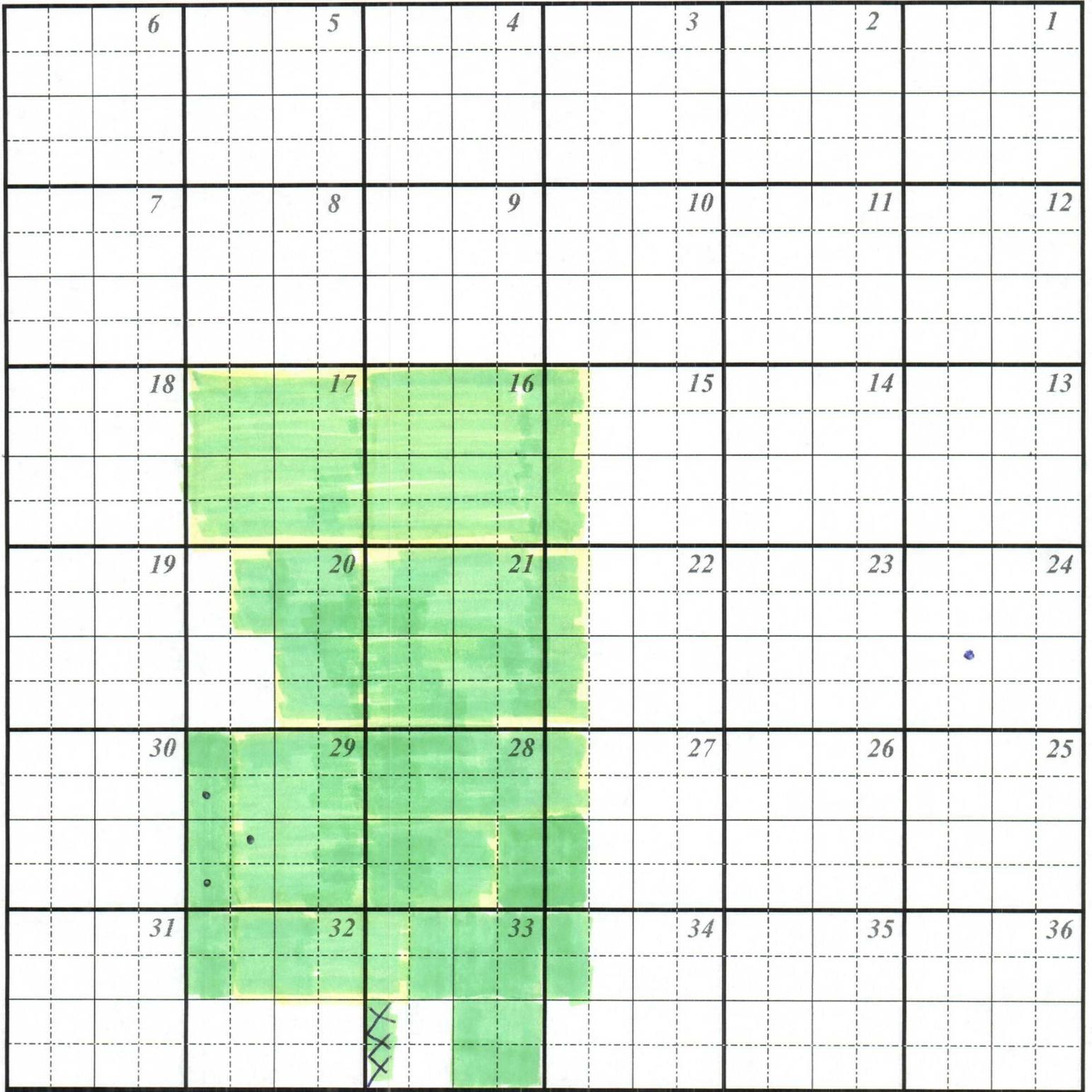
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T/A 8-5-65  
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TD 4541



Township \_\_\_\_\_ Range \_\_\_\_\_

## Catanach, David, EMNRD

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**From:** Howard, Dawn [DHoward@claytonwilliams.com]  
**Sent:** Wednesday, October 26, 2005 9:22 AM  
**To:** Catanach, David, EMNRD  
**Subject:** RE: C-108 Application Flying M (SA) Field / Lea County, NM



20650001.pdf (350  
KB)

Good morning-

You are correct in that there was an Administrative Order No. PMX-197 approved in 1998 (pdf attached).

These wells were not converted.

1865	038	FLYING M SA TR 34 #2	OIL WELL
1869	002	MCGUFFIN JOHN R #2	OIL WELL

I'm new at this, so I didn't know if there was an expiration date. When I checked w/Dorothy Phillips in July of this year, she told me that they expired. This is also true of Administrative Order No. PMX-194.

Please do not hesitate if I may provide further information. Thank you and have a great day! - Dawn

-----Original Message-----

**From:** Catanach, David, EMNRD [mailto:david.catanach@state.nm.us]  
**Sent:** Wednesday, October 26, 2005 9:45 AM  
**To:** Howard, Dawn  
**Subject:** RE: C-108 Application Flying M (SA) Field / Lea County, NM

Dawn,

I was working on this permit and I happened to notice that two of the Wells, the McGuffin and the 34-2 were previously permitted for injection by Division Order No. PMX-197 dated July 30, 1998. Were these wells never converted to injection? If they were not converted to injection, PMX-197 had a one-year expiration provision. Is that what happened? Please let me know.

David

-----Original Message-----

**From:** Howard, Dawn [mailto:DHoward@claytonwilliams.com]  
**Sent:** Tuesday, October 25, 2005 2:59 PM  
**To:** Catanach, David, EMNRD  
**Subject:** RE: C-108 Application Flying M (SA) Field / Lea County, NM

Afternoon David:

The revised Legal Notice has been publicized in the Hobbs News-Sun with the correct information and the original is in the mail to you this date. Thank you for patience.

Have a great day!

Dawn M. Howard  
Operations Assistant  
Southwest Royalties, Inc./Clayton Williams Energy  
6 Desta Drive, Ste 2100  
Midland, Texas 79705

432/688-3267  
432/688.3250 fax

> <<20590001.pdf>>  
From: Howard, Dawn  
Sent: Monday, October 17, 2005 3:26 PM  
To: 'Catanach, David, EMNRD'  
Subject: Will do - thank you.

-----Original Message-----

From: Catanach, David, EMNRD  
[mailto:david.catanach@state.nm.us]  
Sent: Monday, October 17, 2005 3:15 PM  
To: dhoward@claytonwilliams.com  
Subject: Form C-108

Dawn,  
I am currently reviewing your Form C-108 Application to convert three wells to injection within the Flying "M" SA Waterflood Project. Please be advised that the newspaper ad is incorrect.

Please correct the following mistakes and re-run the advertisement:

Ad shows Tract 24 Well No. 1 to be in Section 24. Should be Section 29.

Ad shows injection interval for the McGuffin Well No. 2 to be 4,340'-4,364'.

Should be

4,327'-4,396'.

Please send me the corrected newspaper ad, and at that time, I will continue

to

process the application.

If you have any questions, call me at (505) 476-3466.

Sincerely,

David Catanach

Engineer

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