

220047246

SWD

8/2/02

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: Southwest Royalties, Inc.

ADDRESS: P.O. Box 11390 Midland, Tx 79702

CONTACT PARTY: C.M. "Marty" Bloodworth, P.E. PHONE: 915-686-9927

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes No
If yes, give the Division order number authorizing the project: N/A

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.).

JUL 18

*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: C.M. Bloodworth, P.E. TITLE: Area Supervisor

SIGNATURE: [Signature] DATE: 06/19/02

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

INJECTION WELL DATA SHEET

OPERATOR: Southwest Royalties, Inc.

WELL NAME & NUMBER: Green Federal "A" No 10 (30-015-21748)

WELL LOCATION: 4920' FW & SL

UNIT LETTER: F

SECTION: 29

TOWNSHIP: 17S

RANGE: 29E

FOOTAGE LOCATION

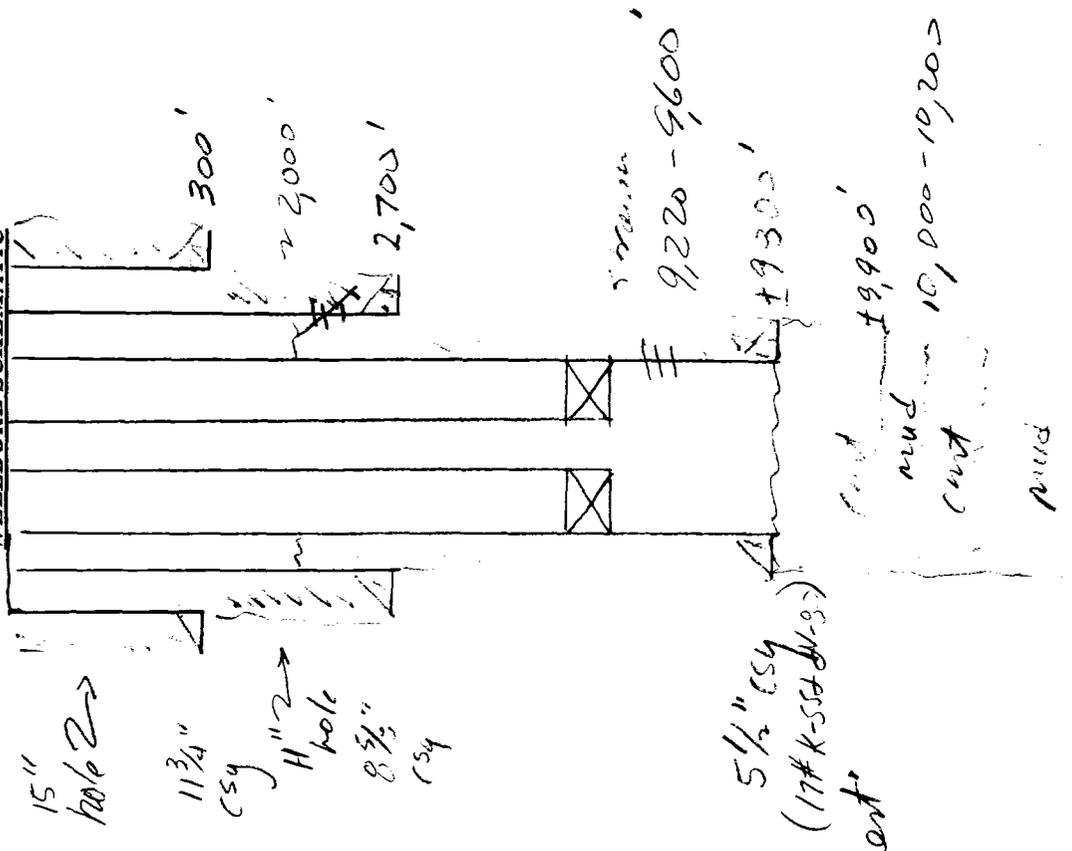
UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15" Casing Size: 1 1/4" ft³
 Cemented with: 300 sx. or
 Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 11" Casing Size: 8 3/4" ft³
 Cemented with: 300 sx. or
 Top of Cement: 1600' Method Determined: bond log

Production Casing (Proposed)

Hole Size: 7 7/8" Casing Size: 5 1/2" ft³
 Cemented with: 4100 sx. or
 Top of Cement: est. 2000 Method Determined: Calc.

Total Depth: 9800'
 Injection Interval (Proposed parts)
9220 feet to 9600 ft

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 1/8" Lining Material: plastic Coating
 Type of Packer: Baker Jok-Set
 Packer Setting Depth: ± 9300'
 Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? The well was drilled to test Morrow and Atoka Zones
2. Name of the Injection Formation: Strawn
3. Name of Field or Pool (if applicable): N/A
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. San Andres 2306' - 2440'. The San Andres will be squeezed prior to completion for disposal!
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Underlying the Strawn is the Morrow @ 10,000', overlying the zone are Yates @ 817', Queen/Thivers @ 1736', San Andres @ 2300', Abco @ 6,200', and Wolfcamp @ 7000'.

ITEM V
"5-19"
E-4
rador
12
19
State

Mack
PSS
Mesquite St
C. Williams
St. 20-8
Chase
Hunt
Mack Ener
to 5000
Fenneco
Rincon St
Muskegon
Mack Ener
to 5000
Fenneco
State

Maralo
St 34
IGRA
WES

use Oil
29267
Mack
Gold
Star Fed
Mack
Vestn.
Mack
Novato
Fed

So Western
Ener
Empire DP
Fed.
Mack
Whitestar
"A"
Phillips
Green
Mack Ener
to 5000
Fenneco
State
Roy et al
8-16-2003
Mack Ener
Whitestar-Fed.
Prairie Sun Inc
Palome Res
Mack
Eger
White
Star
Fed.
Eddy
Mack
Ener
White
Star Fed.
So West
Mack
Ener
Blue Star
Fed

28
P18 Mack
Solar
Geraldine
TD 6381
MA
OPER

Mack
269
Novato
Fed
Chase
Oil
Mack Ener
Eylene Fed.
Fed. U.S.

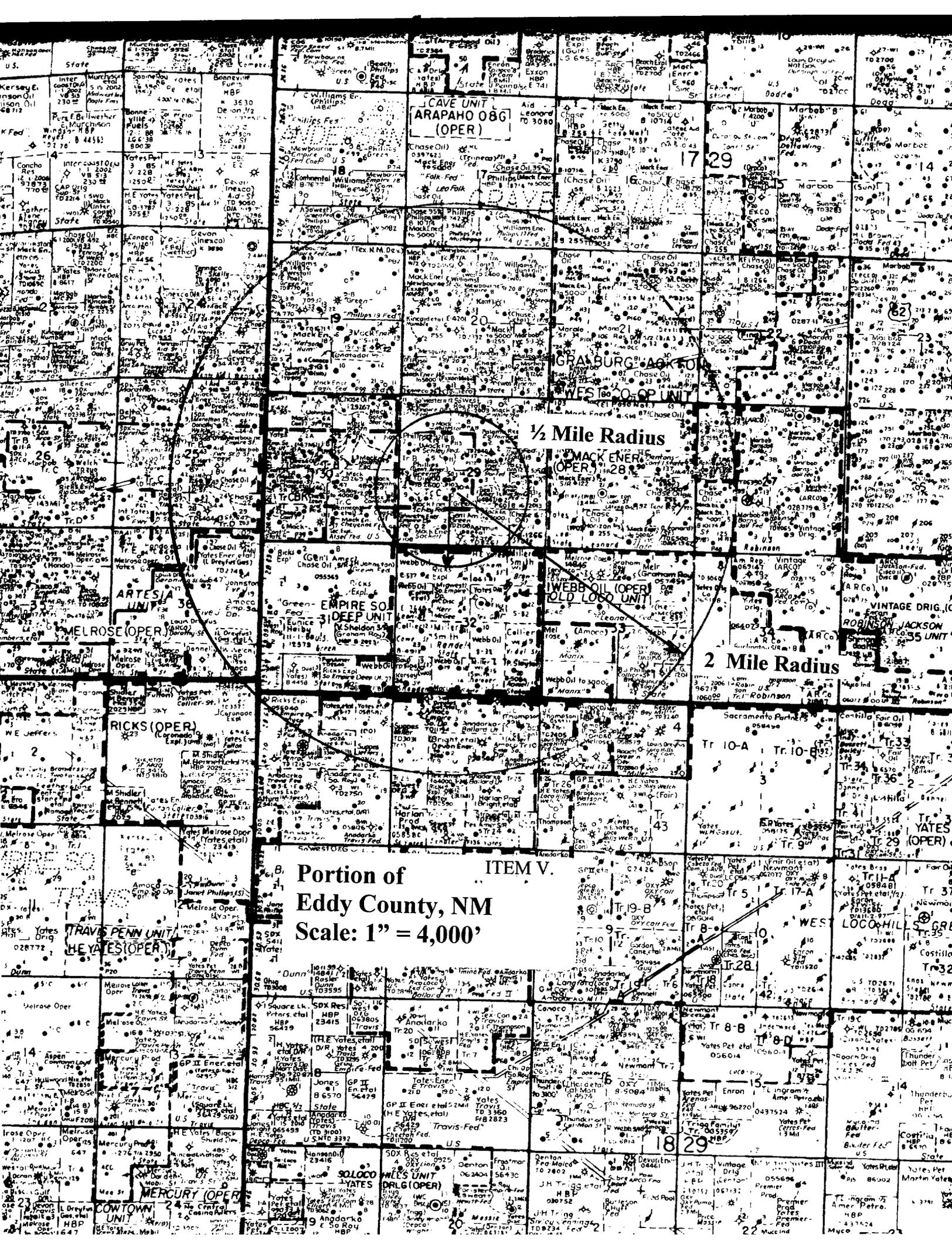
29
Mack Ener
"Green"
Schley Fed
Spwesty Ener
Empire DP
Fed.
Mack Ener
Sockett
Gentl Am
Green
TD 2108
Ashmun
State
Mack Ener
to 5000
Chase
Oil
Mack Ener
to 5000
Chase
Oil
Mack Ener
to 5000
Chase
Oil
Mack Ener
to 5000
Chase
Oil

Mack Ener
SIR
122
Melros
14845
Tenneco
Fed
TD 3200
WEBB
OLD L

31
Johnston
Green Fed
Ricks
Expl.
RE SO
EP UNIT

32
Webb Oil
Ricks
Expl
Webb Oil
Midwest
Empire
So. Empire
Fed
Kerr
McGee
Portion of Eddy Co., NM
Operators within 1/2 Mile
of proposed SWD
Collier
Mel

Melros
14845
Tenneco
Fed
TD 3200
WEBB
OLD L



Portion of
Eddy County, NM
Scale: 1" = 4,000'

ITEM V.

CAVE UNIT
ARAPAHO 08G
(OPER)

GRABURG AOKO
WES CO. OP UNIT

1/2 Mile Radius

MACK ENER (OPER)

WEBB OIL (OPER)

OLD LOGO UNIT

2 Mile Radius

ARTESIA UNIT 38

MELROSE (OPER)

RICKS (OPER)

TRAVIS PENN UNIT
(HE YATES) (OPER)

SOLOCO WHEELS UNIT
(OPER)

MERCURY (OPER)

Green "A" Well No. 10
1,980' FWL, & 1,980 FSL
Unit Letter K, Sec 29, T17S, R29E
Eddy County, New Mexico

ITEM VI:

Table of data for all wells within one half mile which have penetrated the prospective disposal zone. Please note that although there are many wells shown on the maps provided under ITEM IV, only the well below and the prospective disposal well penetrated the target disposal zone within the area of review.

Current

<u>Operator</u>	<u>Lease Name/Well No.</u>	<u>Status</u>	<u>Spudded</u>	<u>Completed</u>
*Chase Oil Co.	Green Fed "A" No. 3	TA'ed	08/11/74	10/17/74

**Southwest Royalties, Inc.

Green Fed "A" No.10	Producing	03/10/76	06/11/76
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*The well history and construction are shown on the original completion forms, and well schematic.

**Additional information provided in Item III.

RECEIVED
SUBMIT IN 5591
NOV 21 1974
(See instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ITEM VI.

5. LEASE DESIGNATION AND SERIAL NO.
NM 014840

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Green "A"

9. WELL NO.
3

10. FIELD AND POOL, OR WILDCAT
Undesignated

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
29 - 17S - 29E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other

2. NAME OF OPERATOR
General American Oil Company of Texas

3. ADDRESS OF OPERATOR
P. O. Box 416 Loco Hills, New Mexico 88255

G A O C
RECEIVED
NOV - 9 1974
NEW MEXICO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **1980' FSL and 660' FKL Sec. 29, T-17S, R-29E**
At top prod. interval reported below
At total depth

12. COUNTY OR PARISH
Eddy

13. STATE
New Mexico

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED **8-11-74** 16. DATE T.D. REACHED **9-28-74** 17. DATE COMPL. (Ready to prod.) **10-12-74**

18. ELEVATIONS (DF, RES, RT, OR, ETC.)* **3595' KB 3582 GR** 19. ELEV. CASINGHEAD **3580**

20. TOTAL DEPTH, MD & TVD **10,927** 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS **0 - 10,927** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
10,350' - 10,389' Atoka

25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
Gamma Ray

27. WAS WELL CORED
NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11-3/4"	42	344' KB	17-1/2"	300 sacks	NONE
8-5/8"	24 & 32	2657' KB	11"	300 sacks	NONE
5-1/2"	15-1/2 & 17	10,497' KB	7-7/8"	750 sacks	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET
2" EUE	10,171	

31. PERFORATION RECORD (Interval, size and number)

10,350' - 10,369' (1 shot per foot)

10,377' - 10,389' (1 shot per foot)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	Perforated in Acid

33. PRODUCTION

DATE FIRST PRODUCTION **October 12, 1974** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) **Flowing** WELL STATUS (Producing or shut-in) **Shut-in**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-31-74	4			10	1.5 MCFD	NONE	25,000/1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1081	0		60	1.5 MCFD	NONE	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Shut-in** TEST WITNESSED BY **W. E. Walter**

35. LIST OF ATTACHMENTS
Logs, Deviation, and DST's and Multipoint Tests.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Ray Cow TITLE District Superintendent DATE November 7, 1974

*(See Instructions and Spaces for Additional Data on Reverse Side)

ITEM VI.

OPERATOR'S COPY
NOV 11 1974

Form 9-331
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
NM-014840

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Green "A"

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

29 - 17S - 29E

12. COUNTY OR PARISH 13. STATE

Eddy New Mexico

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
General American Oil Company of Texas

3. ADDRESS OF OPERATOR
P. O. Box 416 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980' FSL and 660' FEL Sec. 29, T-17S, R-29E

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3582 GR 3595 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)
PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)
REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 1. Spud in 17-1/2" hole at 8:00 P.M. August 11, 1974.
- 2. On August 12, 1974 we ran 11-3/4" 42# casing new H 40 casing and set at 344' KB with 300 sacks class "C" cement with 1/4" Flocel and 2% CaCl per sack. Pressure tested to 800# for 30 minutes. Tested OK.
- 3. On August 18, 1974 we ran 8-5/8" 24 and 32# new casing and set at 2657' KB and cemented with 300 sacks class "C" cement with 2% CaCl. Plug down at 1:10 P.M. August 18, 1974. Pressure Tested casing to 2000#. Tested OK.
- 4. September 30, 1974 ran 5-1/2" 15-1/2# and 17# new casing and cemented at 10,497' KB with 450 sacks class "C" cement, 50/50 posmix, 5# salt per sack, and 300 sacks class "A" cement with 5# salt, 3/4 of 1% CFR-2 per sack. Plug down at 12:15 A.M. Oct. 1, 1974.
- 5. We perforated in acid 10,350' - 10,369' (1 shot per foot) and 10,377' - 10,389' (1 shot per foot).

RECEIVED
NOV - 8 1974
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

NWK
JTR
ROC
KN
JB
BB
CLM
BE
JM
BB
RS
FIL

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE District Superintendent DATE November 7, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

ITEM VI.

WELL NAME & Green A Fed #3 TE: 5/93 BJA

OPERATOR: SWIR COUNTY: Eddy, NM

LOCATION: 1980F5L 660FEL, Sec 29 T17S R29E

FIELD: Undesignated Abo TD: 10927' PB ~~8490~~ 7,115'

DATE DRILLED: 8-11-74 DATE COMPLETED: 10-12-74

ELEV: 3595' KB

API 30-015-21308

1 1/4" 42# @ 344'
300yx - TOC 78' calc

8 5/8" 24+32# @ 2657'
300yx - TOC 1618' calc

1993 CIRP @ 7150' w/ 35' cmt

(1983) 7170-7209 (28)

(12-82) CIRP @ 8525' w/ 35' cmt on top

(1979) 8575-8587 (24)

(1979) CIRP @ 8798' w/ 35' cmt on top

(1978) 9074-9090 (32)

(1978) CIRP @ 10100' w/ 30' cmt on top

(1978) 10228-10245 (17)

(10-78) CIRP @ 10315' w/ 30' cmt on top

(1974) 10350-10369 (19)

10377-10389 (12)

5 1/2" 15 1/2 + 17# @ 10497'
750yx - TOC 6689' calc

10-13-74 Spot
250 gal 15% acid.

12-13-74 Acidize
w/ 3000 gal 7 1/2% +
107000 CF Nitro. Flush
w/ 2% KCL wtr.
10 BO 1.5 MMCF ORW

9-75 2000 MCF 96 BO

10-78 Pmp 38 bbls 2% CaCl
set CIRP 10315'

Displace w/ 2% CaCl
Perf 10228-10245

Pmp 1000 gal 15% acid +
2% KCL, 3oz acid

Set CIRP @ 10100' 30'
cmt on top. Spot 250

gal 10% perf 9074-9090
Pmp 20 bbls 20% KCL

FL keeps rising.

3-79 Set CIRP @ 8798'
35' cmt on top.

Spot 20% acid & perf
8575-8587.

4-79 Pmp 250 gal MCA
acid + 1650 gal 2% KCL

12-82 Set CIRP @ 8525'
w/ 35' cmt on top.

3-83 Spot 150 gal 10%
acid Perf 7170-7209

Acidize w/ 1000 gal 15%

1984 - Pmp size
2 1/2 x 1 1/2 x 24

No info on depth set.
No info on rods

TD 10927'

Green "A" Well No. 10
1,980' FWL, & 1,980 FSL
Unit Letter K, Sec 29, T17S, R29E
Eddy County, New Mexico

ITEM VII.

1. The maximum injected volume is anticipated to be 15,000 BWPD, with an average volume of 8,000 BWPD.
2. Injection will be through a closed system.
3. The maximum injection pressure is expected to be 3,000 psig, with an average pressure of 1,500 psig.
4. Water from the Atoka, Abo, Cisco, Glorieta, Morrow, Pennsylvanian, Queen, San Andres, Seven Rivers, Wolfcamp, and Yeso zones is anticipated to be disposed. Water from these zones should be compatible with the Strawn disposal zone.
5. The chemical make of typical Strawn water is as per the enclosed analysis.

ITEM VII.

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. C. M. Bloodworth LABORATORY NO. RESEARCH
P.O. Box 11390, Midland, TX 79702 SAMPLE RECEIVED 1-20-93
RESULTS REPORTED 6-18-02

COMPANY Southwest Royalties, Inc. LEASE _____
FIELD OR POOL Hackberry
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Eddy STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Strawn production in Hackberry field (approximately 18 miles southeast of Loco Hills area)
NO. 2 _____
NO. 3 _____
NO. 4 _____

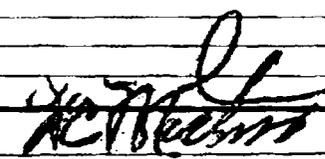
REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0906			
pH When Sampled				
pH When Received	6.25			
Bicarbonate as HCO ₃	122			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	29,000			
Calcium as Ca	9,600			
Magnesium as Mg	1,215			
Sodium and/or Potassium	45,726			
Sulfate as SO ₄	124			
Chloride as Cl	90,904			
Iron as Fe	10.5			
Barium as Ba	0			
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	147,691			
Temperature °F				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Reactivity, ohm/cm at 77° F	0.070			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Form No. 3

By 
Waylan C. Martin, M. A.

Green "A" Well No. 10
1,980' FWL, & 1,980 FSL
Unit Letter K, Sec 29, T17S, R29E
Eddy County, New Mexico

Item VIII:

The proposed disposal is in the Pennsylvania System, Strawn Series. It is primarily limestone with some inter-bedded sandstone. The Strawn in the subject well is 960 feet thick. The top of the Strawn is at 8,960 feet (5,342 feet sub sea) and the base is at 9,920 feet (6,302 feet sub sea).

There are two Ogallala wells approximately 200 feet in depth north of the proposed disposal well. One well is TA'ed and the other is not used for drinking water. A water analysis of the active well is enclosed with this application. The proposed disposal well had 300 feet of surface casing set and cemented to protect this freshwater interval. There are no other reported freshwater zones in this area, either overlaying or underlaying the proposed disposal zone.

Green "A" Well No. 10
1,980' FWL, & 1,980 FSL
Unit Letter K, Sec 29, T17S, R29E
Eddy County, New Mexico

Item IX..

If stimulation is necessary the perforations will be treated with 5,000 gallons of 15% hydrochloric acid with appropriate non-emulsifying and corrosion additives.

Item X.

Logs were filed when the well was completed in 1974.

Item XI.

Attached is an analysis from the only active fresh water well near the proposed disposal well.

Item XII.

There is no engineering nor geologic evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Item XIII.

Notification list is enclosed

Item XI.

Permian Treating Chemicals WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **OK Trucking Yard (In Yard)**
 Lease : **N/A**
 Well No. :
 Location:
 Attention:

Date Sampled : **11-June-2002**
 Date Analyzed: **14-June-2002**
 Lab ID Number: **Jun1402.001- 6**
 Salesperson :

File Name : F:\ANALYSES\Jun1402.001

ANALYSIS

- 1. Ph **8.010**
- 2. Specific Gravity 60/60 F. **1.008**
- 3. CaCO3 Saturation Index **0.841**
 @ 80F
 @ 140F **1.541**

Dissolved Gases

- 4. Hydrogen Sulfide **Not Present**
- 5. Carbon Dioxide **Not Determined**
- 6. Dissolved Oxygen **Not Determined**

Cations

- | | | | |
|------------------------------|-----------------------|----------|--------------|
| 7. Calcium (Ca++) | 150 | / 20.1 = | 7.46 |
| 8. Magnesium (Mg++) | 61 | / 12.2 = | 5.00 |
| 9. Sodium (Na+) (Calculated) | 254 | / 23.0 = | 11.04 |
| 10. Barium (Ba++) | Not Determined | | |

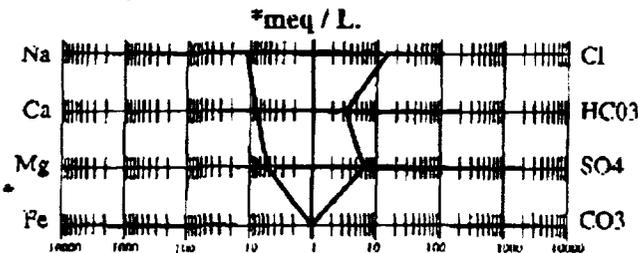
Anions

- | | | | |
|--------------------------------------|--------------|----------|--------------|
| 11. Hydroxyl (OH+) | 0 | / 17.0 = | 0.00 |
| 12. Carbonate (CO3=) | 0 | / 30.0 = | 0.00 |
| 13. Bicarbonate (HCO3-) | 195 | / 61.1 = | 3.19 |
| 14. Sulfate (SO4=) | 300 | / 48.8 = | 6.15 |
| 15. Chloride (Cl-) | 500 | / 35.5 = | 14.08 |
| 16. Total Dissolved Solids | 1,460 | | |
| 17. Total Iron (Fe) | 2 | / 18.2 = | 0.08 |
| 18. Total Hardness as CaCO3 | 626 | | |
| 19. Resistivity @ 75 F. (Calculated) | 4.504 | /cm. | |

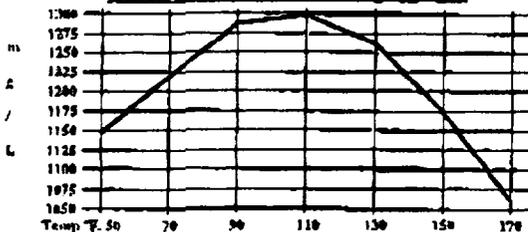
PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT. X	*meq/L =	mg/L.
Ca(HCO3)2	81.04	3.19	259
CaSO4	68.07	4.27	291
CaCl2	55.50	0.00	0
Mg(HCO3)2	73.17	0.00	0
MgSO4	60.19	1.88	113
MgCl2	47.62	3.12	149
NaHCO3	84.00	0.00	0
NaSO4	71.03	0.00	0
NaCl	58.46	10.96	641

LOGARITHMIC WATER PATTERN



Calcium Sulfate Solubility Profile



*± 200 deep
 Ogalla*

Green "A" Well No. 10
1,980' FWL, & 1,980 FSL
Unit Letter K, Sec 29, T17S, R29E
Eddy County, New Mexico

Item IX..

If stimulation is necessary the perforations will be treated with 5,000 gallons of 15% hydrochloric acid with appropriate non-emulsifying and corrosion additives.

Item X.

Logs were filed when the well was completed in 1976.

Item XI.

Attached is an analysis from the only active fresh water well near the proposed disposal well.

Item XII.

There is no engineering nor geologic evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Item XIII.

Notification list is enclosed

Notification List

Green "A" Well No. 10
1,980' FWL, & 1,980 FSL
Unit Letter K, Sec 29, T17S, R29E
Eddy County, New Mexico

Surface Owner :

Bureau of Land Management
c/o Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220

Operators:

BP Permian Performance Unit
200 Westlake Pk. Blvd.
Houston, Texas 77079

Chase Oil Company
P.O. Box 1767
Artesia, NM 88211-1767

Mack Energy Corporation
P.O. Box 960
Artesia, NM 88211-0960

Phillips Petroleum Corporation
4001 Penbrook
Odessa, Tx 79762

Prairie Sun, Inc.
P.O. Box 8280
Roswell, NM 88202

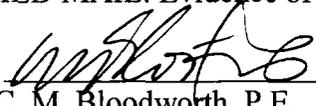
Ricks Exploration Incorporated
210 Park Avenue #3000
Oklahoma City, Oklahoma 73102

Southwestern Energy Production Company
2350 N. Sam Houston Pkwy, Ste. 300
Houston, Texas 77032

Webb Oil Company
2409 Cerr Road
Artesia, NM

Harvey E. Yates Company
P.O. Box 1933
Roswell, NM 88202-1933

A copy of the disposal application was furnished to the above by
CERTIFIED MAIL. Evidence of same is enclosed.

Signed: 

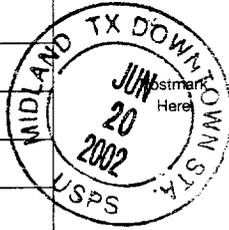
C. M. Bloodworth, P.E.
Area Supervisor

Date: 06/21/02

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.63



Sent: BP Permian Performance Unit
Street or PO: 200 Westlake Pk. Blvd.
City: Houston, Texas 77079

PS Form 3849 Instructions

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.63



Sent: Mack Energy Corporation
Street or PO: P.O. Box 960
City: Artesia, NM 88211-0960

PS Form 3849 Instructions

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.63



Sent: Prairie Sun, Inc.
Street or PO: P.O. Box 8280
City: Roswell, NM 88202

PS Form 3849 Instructions

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.63



Sent: Ricks Exploration Incorporated
Street or PO: 210 Park Avenue #3000
City: Oklahoma City, Oklahoma 73102

PS Form 3849 Instructions

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$ 1.02
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.62



Sent: Harvey E. Yates Company
Street or PO: P.O. Box 1933
City: Roswell, NM 88202-1933

PS Form 3849 Instructions

**U.S. Postal Service
CERTIFIED MAIL RECEIPT**
(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.63



Sent: Webb Oil Company
Street or PO: 2409 Cerr Road
City: Artesia, NM 88210

PS Form 3849 Instructions

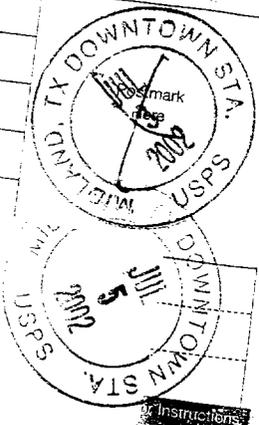
U.S. Postal Service
CERTIFIED MAIL RECEIPT

(Domestic Mail Only, No Insurance Coverage Provided)

7001 0320 0004 3739 1992

Shirley Green

Postage	\$ 106
Certified Fee	
Return Receipt Fee (Endorsement Required)	230
Restricted Delivery Fee (Endorsement Required)	175
Total Postage & Fees	\$ 511



Bureau of Land Management
c/o Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220

Ser
Str
or
Cit

or Instructions

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

0502 4E2E 3739 203E
 7001 0320 0004 4000 02E0 1001

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.63

Sent To: Phillips Petroleum Corporation
 4001 Penbrook
 Odessa, Tx 79762

Postmark: MIDLAND TX, JUN 20 2002, USPS

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

9E02 4E2E 3739 203E
 7001 0320 0004 4000 02E0 1001

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.63

Sent To: Chase Oil Company
 11352 Artesia Highway
 Artesia, NM 88210

Postmark: MIDLAND TX, JUN 20 2002, USPS

Corrected

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

2T02 4E2E 3739 203E
 7001 0320 0004 4000 02E0 1001

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	1.50
Total Postage & Fees	\$ 4.63

Sent To: Chase Oil
 P.O. Box 1767
 Artesia, NM 88211-1767

Postmark: MIDLAND TX, JUN 27 2002, USPS

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

1T02 4E2E 3739 203E
 7001 0320 0004 4000 02E0 1001

OFFICIAL USE

Postage	\$ 1.03
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	1.50
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 4.63

Sent To: Southwestern Energy Prod Co.
 2350 N. Sam Houston Pkwy,
 Ste. 300
 Houston, Texas 77032

Postmark: MIDLAND TX, JUN 20 2002, USPS

Webb Oil Company
 2409 Central Road
 Artesia, NM 88210

1. Article Addressed to:
- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
 - Print your name and address on the reverse so that we can return the card to you.
 - Attach this card to the back of the mailpiece, or on the front if space permits.

SENDER: COMPLETE THIS SECTION

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Phillips Petroleum Corporation
 4001 Penbrook
 Odessa, Tx 79762

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) *NAOMI Mendez* B. Date of Delivery *6-20*
 C. Signature *X Naomi Mendez* Agent Addressee
 D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type *RR*
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.
 4. Restricted Delivery? (Extra Fee) Yes

2. *7001 0320 0004 3739 2050*

3. Service Type *RR*
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

A. Received by (Please Print Clearly) *PHIL WEBB* B. Date of Delivery *6-21-02*
 C. Signature *X Phil Webb* Agent Addressee
 D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

COMPLETE THIS SECTION ON DELIVERY

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Prairie Sun, Inc.
 P.O. Box 8280
 Roswell, NM 88202

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) *GWE LEE* B. Date of Delivery
 C. Signature *X GWE LEE* Agent Addressee
 D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type *RR*
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.
 4. Restricted Delivery? (Extra Fee) Yes

7001 0320 0004 3739 2067

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Harvey E. Yates Company
 P.O. Box 1933
 Roswell, NM 88202-1933

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) *AMY OWENS* B. Date of Delivery *6-21-02*
 C. Signature *X Amy Owens* Agent Addressee
 D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type *RR*
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.
 4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (From front service label)
7001 0320 0004 3739 1923

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits. *Green*

1. Article Addressed to:

Mack Energy Corporation
P.O. Box 960
Artesia, NM 88211-0960

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) *6-24-02* B. Date of Delivery

C. Signature Agent
X Addressee

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type *RR*
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

7001 0320 0004 3739 2043
PS Form 3811, July 1999 Domestic Return Receipt 102595-00-M-0952

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits. *Green*

1. Article Addressed to:

BP Permian Performance Unit
200 Westlake Pk. Blvd.
Houston, Texas 77079

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) *6/24/02* B. Date of Delivery

C. Signature Agent
X Addressee

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type *RR*
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

7001 0320 0004 3739 2029
PS Form 3811, July 1999 Domestic Return Receipt 102595-00-M-0952

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits. *Green*

1. Article Addressed to:

Ricks Exploration Incorporated
210 Park Avenue #3000
Oklahoma City, Oklahoma 73102

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) *Howard 6-27-02* B. Date of Delivery

C. Signature Agent
X Addressee

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type *RR*
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

7001 0320 0004 3739 2074
PS Form 3811, July 1999 Domestic Return Receipt 102595-00-M-0952

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits. *Green*

1. Article Addressed to:

Bureau of Land Management
c/o Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) *Ashley Echavarría* B. Date of Delivery *7-8*

C. Signature **Ashley Echavarría* Agent
 Addressee

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type *RK*
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

7001 0320 0004 3739 1992

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. <i>Green</i> 	A. Received by (Please Print Clearly) <i>Sarah Hernandez</i>	B. Date of Delivery <i>06-28-02</i>
	C. Signature <i>[Signature]</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <i>Chase Oil Company P. O. BOX 1767 Artesia, NM 88211-1767</i>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. <i>7001 0320 0004 3739 2012</i>	3. Service Type <i>RR</i> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. <i>Green</i> 	A. Received by (Please Print Clearly) <i>Roxanne Mills</i>	B. Date of Delivery
	C. Signature <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <i>Southwestern Energy Prod Co 2350 N. Sam Houston Pkwy, Ste. 300 Houston, Texas 77032</i>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. <i>7001 0320 0004 3739 2081</i>	3. Service Type <i>RR</i> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	

Affidavit of Publication

NO. 17764

STATE OF NEW MEXICO

County of Eddy:

Gary D. Scott being duly

sworn, says: That he is the Publisher of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and county and state, and that the here to attached

Legal Notice

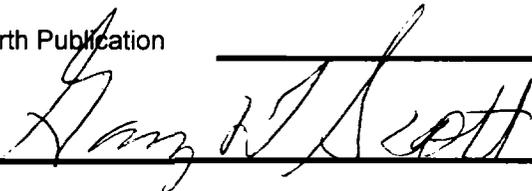
was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 consecutive weeks/days on the same day as follows:

First Publication June 23 2002

Second Publication

Third Publication

Fourth Publication



Subscribed and sworn to before me this

24th day of June 2002



Notary Public, Eddy County, New Mexico

My Commission expires September 23, 2003

Copy of Publication:

LEGAL NOTICE

Southwest Royalties, Inc., P.O. Box 13390, Midland, TX 79702 (915) 686-9927 is seeking approval from the New Mexico Oil Conservation Division to deepen and complete for commercial salt water disposal the Green "A" Federal Well No. 10, the well is located at 1,980 ft from the South and West lines of Section 29, T17S, R29E, Eddy County, N.M. The proposed disposal interval is the Strawn formation. Disposal is planned through perforations from 9,220 to 9,600 ft.

Southwest Royalties, Inc. plans to dispose of a maximum of 15,000 BWPD with a maximum pressure of 3,000 psig.

Parties with questions regarding this proposal can contact Marty Bloodworth with Southwest Royalties, Inc. at the address or phone number above.

Interested parties must file objections or requests for hearing within 15 days to the Oil Conservation Division: 1220 S. St. Francis Dr., Santa Fe, NM 87505.

Published in the Artesia Daily Press, Artesia, N.M. June 23, 2002.

Legal 17764

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMITTING INFORMATION - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other *Saltwater disposal*

2. Name of Operator
Southwest Royalties, Inc.

3a. Address
P.O. Box 11390 Midland, Tx 7970

3b. Phone No. (include area code)
(915)-636-9927

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
*1930' F5+W4
 W1/4 E, Sec 29, T175R 29E*

5. Lease Serial No.
NM 014840

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
Green "A" No. 10

9. API Well No.
30-015-21748

10. Field and Pool, or Exploratory Area
N/A

11. County or Parish, State
Eddy Co, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input type="checkbox"/> Other _____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Southwest Royalties plans to convert the subject well to commercial disposal service as follows:

- ① RU WS. TOH & lay down prod. equip.
- ② PU bit, DC's & tbg. D/O CIBP @ 2400'
- ③ RU Service Co. Squeeze San Andres parts by 2306-2460' w/ 150 sx Class C cmt.
- ④ D/O & tst sgr. Resqueeze as needed.
- ⑤ D/O cmt plugs @ 2,600-2,700'; 6,050-6,350'; 7,000'-7,150'; & 8,500'-8,650'.

**QUEST TO
LINE APPROVAL
BY STATE**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) *C.M. Bloodworth, P.E.* Title *Area Supervisor*

Signature *[Signature]* Date *06/25/02*

ACCEPTED FOR RECORD

Approved by _____ Title _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office _____

Date *26 2002*
IES BABYAK
PETROLEUM ENGINEER

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

COPY

SOUTHWEST ROYALTIES

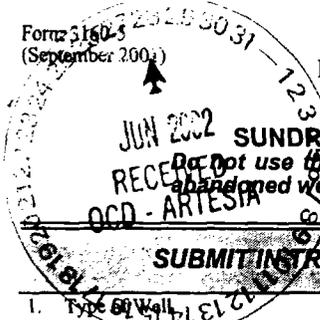
PROJECT Green "A" No. 10
Convert to Saltwater Disposal

PAGE 2 OF _____
BY CMB DATE 06/10/02

Form 3160-05 Continued

- ⑥. Spot 150' cmt plus fr/ 9800' - 9950'
- ⑦. T1H w/ 5 1/2" 17 lb/ft K-55 & N-80 LT&C csy & land @ 9800'. Cmt csy w/ sufficient cmt to reach 2000'
- ⑧. WOC & RU WL.
- ⑨. Perforate Strawn fr/ 9220' - 9600' OA.
- ⑩. T1H w/ tbg & pkr. Break down parts & acidize w/ 5000 gals 15% HCl acid if needed.
- ⑪. T0H w/ tbg. T1H w/ 2 7/8" 6.5 lb/ft N-80 ord EUE internally plastic coated tbg & Baker Lok-Set pkr. Set pkr @ \pm 9200'.
- ⑫. Load csy/tbg annulus w/ treated wtr. NU WH. RD Service Co.
- ⑬. Construct disposal facility & begin disposal.

SF



1301 W. Grand Avenue
Artesia, NM 88210

SUNDRY NOTICES AND REPORTS ON ABANDONED WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

Case Serial No. **NM 014840**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No. **Green "A" No 10**

9. API Well No. **30-015-21748**

10. Field and Pool, or Exploratory Area **N/A**

11. County or Parish, State **Eddy Co, NM**

1. Type of Well
 Oil Well Gas Well Other **Saltwater disposal**

2. Name of Operator
Southwest Royalties, Inc.

3a. Address
P.O. Box 11390 Midland Tx 7970

3b. Phone No. (include area code)
(915)-636-9927

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1930' FS+WL
 W F, Sec 29, T17S, R 29E**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Southwest Royalties plans to convert the subject well to commercial disposal service as follows:

- ① RU WS. TOH & lay down prod. equip.
- ② PU bit, DC's & tbg. D/O CIBP @ 2400'
- ③ RU service co. Squeeze San Andres parts fr 2306-2460' w/ 150sx class C cmt.
- ④ D/O & tst sqz. Re squeeze as needed.
- ⑤ D/O cmt plugs @ 2,600-2,700'; 6,050-6,350'; 7,000'-7,150'; & 8,500'-8,650'



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **C.M. Bloodworth, P.E.** Title **Area Supervisor**

Signature *[Signature]* Date **06/25/02**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE		ACCEPTED FOR RECORD	
Approved by	Title	Date	
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	JUN 26 2002	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		PETROLEUM ENGINEER	

(Instructions on reverse)

*Accepted for record in Artesia 7-1-02
 Copy to State file*

SOUTHWEST ROYALTIES

PROJECT Green "A" No. 10
Convert to Saltwater Disposal

PAGE 2 OF _____
BY CMB DATE 06/10/02

Form 3160-05 Continued

- ⑥. Spot 150' cmt plus fr/ 9800' - 9950'
- ⑦. T1H w/ 5 1/2" 17 lb/ft K-55 & N-80 LTC csg & land @ 9800'. Cmt csg w/ sufficient cmt to reach 2000'
- ⑧. WOC & RU WL.
- ⑨. Perforate Strawn fr/ 9220' - 9400' OA.
- ⑩. T1H w/ tbg & pkr. Break down parts & acidize w/ 5000 gals 15% HCl acid if needed.
- ⑪. T0H w/ tbg. T1H w/ 2 1/2" 6.5 lb/ft N-80 8rd EUE internally plastic coated tbg & Baker Lok-Set pkr. Set pkr @ \pm 9200'.
- ⑫. Load csg/tbg annulus w/ treated wtr. NU WH. RD Service Co.
- ⑬. Construct disposal facility & begin disposal.



SOUTHWEST ROYALTIES

SOUTHWEST ROYALTIES, INC.
Southwest Royalties Building
407 N. Bag Spring, Midland, TX 79701-6326
P.O. Box 11390, Midland, TX 79702-8390
(915) 686-9927, 1-800-433-7945
FAX (915) 688-0190

TELECOMMUNICATION TRANSMITTAL

FAX

DATE: 8/19/02
ATTENTION: Will Jones
COMPANY: NMOCC
FAX NUMBER: 505-476-3462
FROM SOUTHWEST ROYALTIES PRODUCTION DEPT: Marty Bloodworth
MESSAGE/INSTRUCTIONS: - Note Southwestern Energies well is shown as a Morrow not Strawn
If you need additional info. Please advise

.....
5 (The cover)
If you do not receive all pages please call (800) 433-7945 or (915) 686-9927 and ask for Marty.

CONFIDENTIALITY NOTE: The information contained in this facsimile message is legally privileged and confidential information intended only for the use of the individual or entity name above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this telecopy is strictly prohibited. If you have received this telecopy in error, please immediately notify us by telephone and return the original message to us at the address set forth above via the United States Postal Service. Thank You.

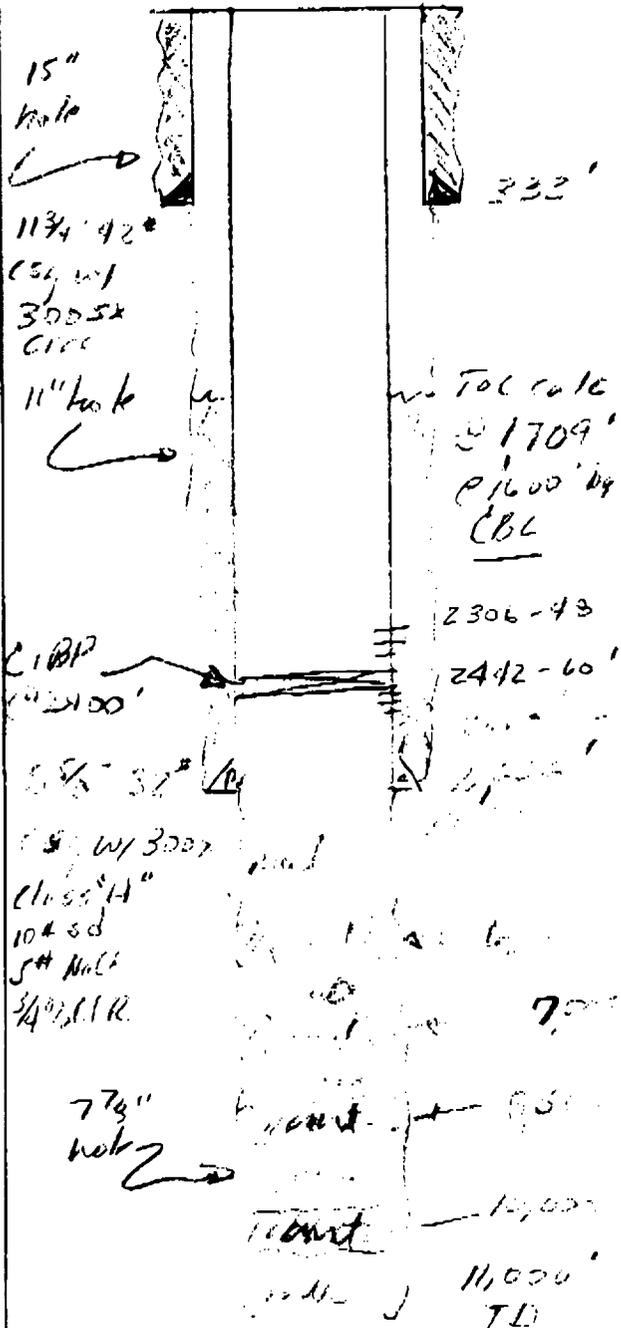
SOUTHWEST ROYALTIES

PROJECT Green "A" Well No 10
Grayburg Jackson Field

PAGE 1 OF 1
BY CMB DATE 11/7/01

3600' h.R.
3618' R.B.
18' CORR

NNT 14340
UTK 1980' FSL & 1980' FWD
Sec 27 T17S R29E
Eddy County, NM
Spud Log 3/10/70 by Gen. Am.
Completed 6/11/70
W. Hunter Oil Co.



- History -
No k; see deviation survey
2 3/4 - 4 3/4" below 5 7/8" CSG
Tops by Gen. Am. Rpt
Yates - 317'
Queen - 1,736'
S.A. - 2431'
PLD - 6125'

4/4/76
Perimeter

- 2306 - 2309 (shales)
- 2342 - 2349 (12 holes)
- 2342 - 2349 (shales)
- 2342 - 2349 (shales)
- 2342 - 2349 (shales)

6th Floor 730 - 2100
w/ 2" ...
20/100sd AIR 218PM
ATP 2100 psi, EDDP
1500 psi

SOUTHWEST ROYALTIES

PROJECT Green A No 10
Gray bay Jackson Fir 1dPAGE 2 OF 2
BY CM B DATE 11/7/01Work History Cont'd

7/26/79 A 2306-2348' w/ 500 gals. Pump to 2000 psi
 & broke down. AIR 388PM ATP 1800 psi, ISDP
 1400 psi down 2 7/8" Hg. RHP @ 2,400'

7/27/79 Free mixer 2306-2348 down 2 7/8" Hg
 w/ 20000 gals & 20,000 lbs 20/40 sd
 AIR 1388PM, ATP 2,500 psi, ISDP 1700 psi

8/19/79 Set RHP @ 2,400' on WL.

8/16/02 12 AM

Marty Bloodworth -

Called For

- Wellone Schmitt

- TOPS

8/19/02 Talked w/ Marty, about

about "Strawn" well. This is actually
a separate lease unit to

SW Energy has been talking about it.

He said the well will be commercial
and will be injecting into a 'Thief' zone
in the STRAWN.

Will Jones

Southwest Royalties, Inc. Green Federal "A" No. 10 30-015-21748																
1980S 1980W																
API	WELL NAME	Short Operator	NS	EW	Dist	UL2 Sec	Tsp	Rge	UL1	TVD	LAND TYPE	WELL TYPE	Orig Form.(or Notes)	Last	Status	P. Code
30-015-32318	SCHLEY FEDERAL #014	MACK	2310S	2385W	522	K	29 17S	29E	K	0	F	O	E EMPIRE YESO	NONE	NO COMPL	0
30-015-32243	SCHLEY FEDERAL #012	MACK	2215S	990W	1017	L	29 17S	29E	L	5300	F	O	E EMPIRE YESO	NONE	NO COMPL	0
30-015-32368	SCHLEY FEDERAL #015	MACK	2185N	455W	1889	E	29 17S	29E	E	0	F	O	E EMPIRE YESO	NONE	NO COMPL	0
30-015-32370	NAVAHO FEDERAL #005	MACK	2310S	330E	2333	I	30 17S	29E	I	0	F	O	E EMPIRE YESO	NONE	NO COMPL	0
30-015-32252	EMPIRE DEEP 29 FEDERAL #002	SOUTHWESTERN	660S	660W	1866	M	29 17S	29E	M	11000	F	G	S EMPIRE MORROW	NONE	ACTIVE	0
30-015-21748	GREEN A FEDERAL #010	SW Royalties	1980S	1980W	0	K	29 17S	29E	K	0	F	O		05-2002	ACTIVE	28509
30-015-06184	EMPIRE ABO UNIT #050	BP	2310S	1650W	466	K	29 17S	29E	K	289	F	I		05-2002	ACTIVE	22040
30-015-25502	SACKETT FEDERAL #002	MACK	660S	1650W	1360	N	29 17S	29E	N	3243	F	O		04-2002	ACTIVE	28509
30-015-03185	EMPIRE ABO UNIT #049	ARCO PERMIAN	2310S	330W	1882	L	29 17S	29E	L	6303	F	I		03-1997	ZONE ABAN	0
30-015-03180	EMPIRE ABO UNIT #049	BP	1980N	330W	2113	E	29 17S	29E	E	6300	F	S		05-2002	ACTIVE	22040
30-015-25132	SACKETT FEDERAL #001	MACK	330S	330W	2333	M	29 17S	29E	M	0	F	O		04-2002	ACTIVE	28509
30-015-21308	BLUE STREAK FEDERAL #001	MACK	1980S	660E	2640	I	29 17S	29E	I	6497	F	G		11-1983	ZONE ABAN	0

PIA PLUES 7.5 ← OPEN

Proposed New Security

10,124-42 STRAWN (TOP = 9,900) (TOP = 8800) (w Energy)

Proposed by 9220-9600 STRAWN

17000 28509

Southwest Royalties, Inc. Green Federal "A" No.												
API	WELL NAME	Latest Pool	Days 2002	Gas 2000	Oil 2002	Wat 2002	PROP NBR	WATER INJ 2002	WATER INJ 2001	WATER INJ 2000		
30-015-32318	SCHLEY FEDERAL #014		0	0	0	0	22367	0	0	0		
30-015-32243	SCHLEY FEDERAL #012		0	0	0	0	22367	0	0	0		
30-015-32368	SCHLEY FEDERAL #015		0	0	0	0	22367	0	0	0		
30-015-32370	NAVAHO FEDERAL #005		0	0	0	0	25079	0	0	0		
30-015-32252	EMPIRE DEEP 29 FEDERAL #002		0	0	0	0	28088	0	0	0		
30-015-21748	GREEN A FEDERAL #010	GRAYBURG JACKSON;SR-Q-G-SA	121	0	142	0	10633	0	0	0		
30-015-03184	EMPIRE ABO UNIT #050	EMPIRE; ABO	0	0	0	0	29358	73804	275555	275000		
30-015-25502	SACKETT FEDERAL #002	GRAYBURG JACKSON;SR-Q-G-SA	120	232	168	864	6185	0	0	0		
30-015-03185	EMPIRE ABO UNIT #049	P&A 2000-05-17	0	0	0	0	1465	0	0	0		
30-015-03180	EMPIRE ABO UNIT #049	EMPIRE; ABO	0	0	0	0	29358	210341	836012	846367		
30-015-25132	SACKETT FEDERAL #001	GRAYBURG JACKSON;SR-Q-G-SA	120	471	345	936	6185	0	0	0		
30-015-21308	BLUE STREAK FEDERAL #001	P&A 2002-05-13	0	0	0	0	23468	0	0	0		