

# Shell Western E&P Inc.

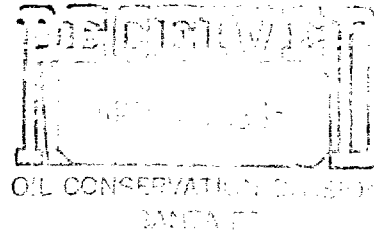
A Subsidiary of Shell Oil Company



April 26, 1985

P.O. Box 991  
Houston, TX 77001

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, NM 87501



Gentlemen:

SUBJECT: AUTHORIZATION TO INJECT  
SHELL - GRIZZELL LEASE  
PENROSE SKELLY GRAYBURG POOL  
UNIT LETTER P, 1300' FSL & 1139' FEL  
WELL NO. 11  
SEC. 8, T-22-S, R-37-E, NMPM  
LEA COUNTY, NEW MEXICO

Shell Western E&P Inc. respectfully requests administrative approval of initial authority to inject within the subject pool and convert the subject well to water injection service.

Grizzell No. 11, formerly well no. 262 of the Gulf operated South Penrose Skelly Unit, was drilled in 1975. Later the same year, after its Grayburg completion tested wet, the well was temporarily abandoned. An intent to permanently plug and abandon the subject well was filed by Gulf in 1983; however, the operator change effective January 1, 1984 concurrently made this intent null and void. We now propose to convert the subject well to injection service for the purpose of enhanced recovery.

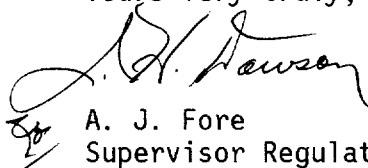
The following information is submitted in support of this request:

1. Plat of lease identifying the proposed injector and its project area.
2. A tabulation of data on all wells of public record within the area of review which penetrate the proposed injection interval.
3. Plugging detail for the two plugged and abandoned wells within the area of review.
4. A well data sheet that includes a diagrammatic sketch of the proposed well, injection tubing, packer, proposed Grayburg injection interval, and an attached proposal for the plugging of perforations downhole.
5. A water analyses of the proposed source water and formation water.  
NOTE: Our proposed water source - produced water from the Drinkard Field - is pending contract negotiations as of this date.

6. Geological data on the injection zone and the fresh water source overlying the injection zone.
7. Our proposed stimulation program will consist of a dump of 1,000 gallons of 15 percent HCl-NEA.
8. Injection will be into the Grayburg formation at an interval of 3663' to 3667'. Initial daily volume of injection water is anticipated to be 400 barrels per day, increasing to a maximum of 500 barrels per day. Expected maximum injection pressure is approximately 700 psi.
9. A correlated well log for the subject well.
10. An Affidavit of Publication certifying the newspaper legal notice.
11. List of offset operators and surface owner.
12. All entities in Item Eleven have been notified by certified mail.

If additional information is required, please advise.

Yours very truly,



A. J. Fore  
Supervisor Regulatory and Permitting  
Production Administration  
Mid-Continent Division

JMW:CMM

#### Attachments

cc: State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
P. O. Box 1980  
Hobbs, NM 88240

State of New Mexico  
Office of Land Commissioner  
P. O. Box 1148  
Santa Fe, NM 87501

## APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: SHELL WESTERN E&P INC.  
Address: P. O. BOX 991, HOUSTON, TX 77001  
Contact party: A. J. FORE Phone: (713) 870-3797
- 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 \_\_\_\_\_.
- 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 <sup>400</sup> and maximum <sup>500</sup> daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure; AVG = 500 PSI; MAX = 700 PSI
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: A. J. FORE Title SUPV. REG. & PERMITTING  
Signature: \_\_\_\_\_ Date: APRIL 26, 1985
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

## III. WELL DATA

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

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

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

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

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

## XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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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.

GRIZZELL #1 (A)

PERFORATING GUNS ATLAS CORP.  
**SIMULTANEOUS RADIATION LOG**  
NATURAL GAMMA RADIATION    INDUCED NEUTRON RADIATION

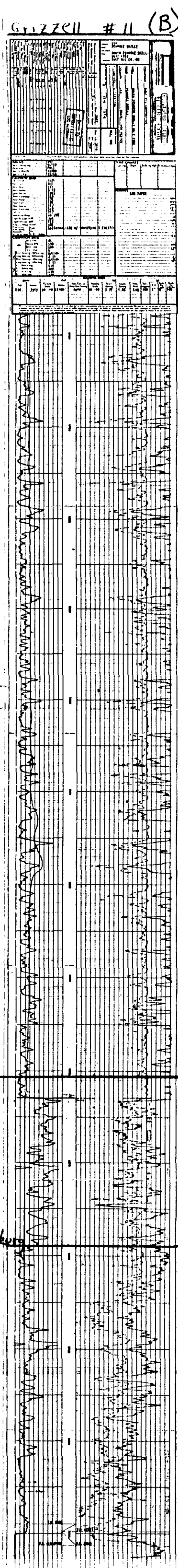
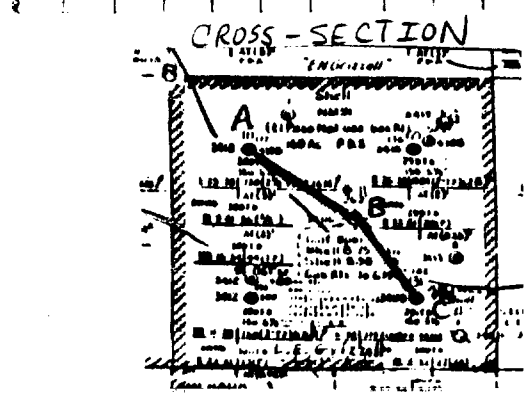
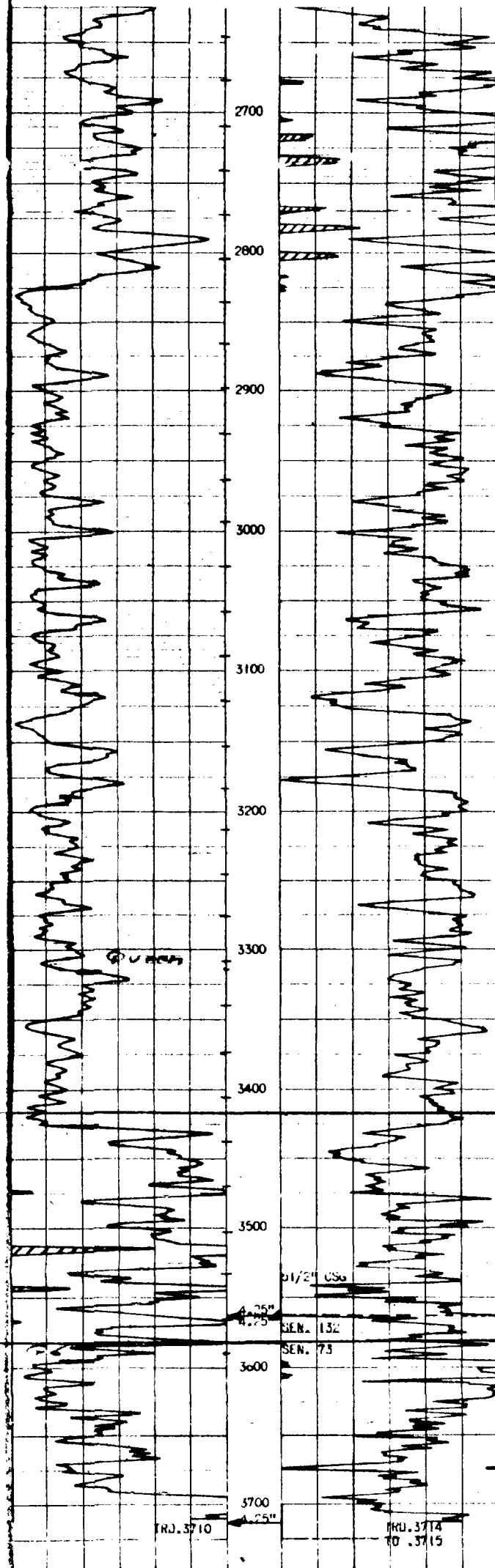
LOCATION: WELL OIL COMPANY  
WELL: GRIZZELL #1  
FIELD: PERMITS WELLY  
COUNTY: LEA STATE: N.M.  
LOCATION: 565° P. 1-660° E. 1-66° S.  
FILE NO: 10000001 225 37E  
LOG NO: 12124

LOG MEAS FROM: DERBY FLOOR ELEV: 3412  
DEPT MEAS FROM: DERBY FLOOR ELEV: 3412  
PEER DATUM: DERBY FLOOR ELEV: 3409

TYPE OF LOG: NEUTRON  
DATE: 5-54  
TOTAL DEPTH (FEET): 3550  
EFFECTIVE DEPTH (FEET): 3550  
TOP OF LOGGED INTERVAL: 3550  
BOTTOM OF LOGGED INTERVAL: 3550  
TYPE OF FLUID IN HOLE: 5/8"  
FLUID LEVEL: 5/8"  
NEUTRON SOURCE TYPE: 5/8"  
SOURCE SPACING: 30"  
LENGTH OF DETECTOR: 30"  
O.D. OF INSTRUMENT: 30"  
TIME CONSTANT: 30"  
LOGGING SPEED: 20-40  
STATISTICAL VARIATION: 275  
SENSITIVITY REFERENCE: 275  
RECORDED BY: VENGEY W. G.  
WITNESSED BY: A. E. FAIRBANK

CASING RECORD

| BUN NO | MT SIZE | CASING | WT-LB | FROM WELL RECORD | INTERVAL      | FROM RA LOG |
|--------|---------|--------|-------|------------------|---------------|-------------|
| CNE    | 4 3/4"  | 5 1/2" |       | SURF. TO 3550    | SURF. TO 3550 |             |



THE WESTERN COMPANY  
**GAMMATRON**  
Simultaneous Radioactivity Log

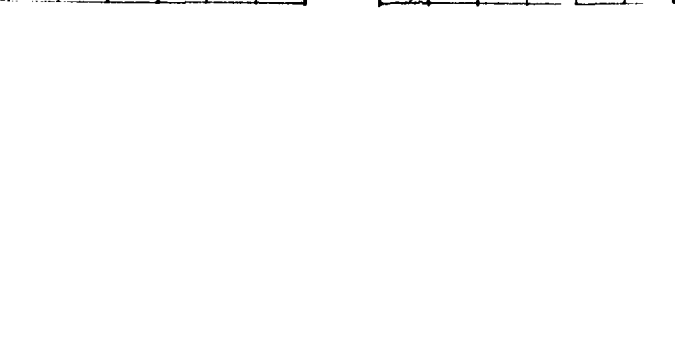
LOCATION: WELL OIL COMPANY  
WELL: GRIZZELL #1  
FIELD: PERMITS WELLY  
COUNTY: LEA STATE: N.M.  
LOCATION: 565° P. 1-660° E. 1-66° S.  
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STATISTICAL VARIATION: 275  
SENSITIVITY REFERENCE: 275  
RECORDED BY: VENGEY W. G.  
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CASING RECORD

| BUN NO | MT SIZE | CASING | WT-LB | FROM WELL RECORD | INTERVAL      | FROM RA LOG |
|--------|---------|--------|-------|------------------|---------------|-------------|
| CNE    | 4 3/4"  | 5 1/2" |       | SURF. TO 3550    | SURF. TO 3550 |             |



### SCALE POTENTIAL OF THIS WATER

VERY:  
LIKELY

**SLIM  
POSSIBILITY**

**NONE**

 $\text{CaCO}_3$ 

四

4

**Caso**

☐ $\text{BaSO}_4$ ☐

☒

### Acid Returns



OSF

○ 〇 〇 〇

□

### SAMPLE DESCRIPTION

COMPANY Shell Western EGP, Inc.

FIELD \_\_\_\_\_

LEASE Agua Water System

WELL NUMBER \_\_\_\_\_

COUNTY & STATE Lea, NM

### PRODUCING FORMATION

WHERE SAMPLED \_\_\_\_\_

REMARKS \_\_\_\_\_

LABORATORY Martin Water Labs., Inc.

LABORATORY NUMBER 784137

LABORATORY NUMBER 7-12-84

DATE SAMPLE TAKEN 7-12-64

DATE SAMPLE RECEIVED 7-13-84

DATE SAMPLE REPORTED 7-18-84

## CHEMICAL AND PHYSICAL PROPERTIES

**TOTAL HARDNESS** Mg/L AS  $\text{CaCO}_3$  5,900

TOTAL ALKALINITY Mg/L AS  $\text{CaCO}_3$  1,700

| CONSTITUENT                                                                                  | MG/LITER | REACT. COEF. | MEQ/LITER |
|----------------------------------------------------------------------------------------------|----------|--------------|-----------|
| SODIUM (INCL. POTASSIUM) AS Na <sup>+</sup>                                                  | 13,063   | 0.04350      | 567.7     |
| CALCIUM - Ca <sup>++</sup>                                                                   | 1,600    | 0.04990      | 79.8      |
| MAGNESIUM - Mg <sup>++</sup>                                                                 | 462      | 0.08224      | 38.0      |
| IRON TOTAL - Fe <sup>++</sup> & Fe <sup>+++</sup>                                            | 1.8      | 0.03581      | 0.1       |
| BARIUM - Ba <sup>++</sup>                                                                    |          | 0.01460      | 0.0       |
| POSITIVE SUB-TOTAL                                                                           | 15,126.8 |              | 685.6     |
| CHLORIDE - Cl <sup>-</sup>                                                                   | 22,549   | 0.02820      | 635.9     |
| <del>CARBONATE</del> BICARBONATE - <del>CO<sub>3</sub></del> 3 HCO <sub>3</sub> <sup>-</sup> | 2,074    | 0.01639 *    | 34.0      |
| SULFATE - SO <sub>4</sub> <sup>=</sup>                                                       | 753      | 0.02082      | 15.7      |
| HYDROXYL - OH <sup>-</sup>                                                                   | 0        | 0.05880      | 0.0       |
| SULFIDE - S <sup>=</sup>                                                                     | 5        | 0.06238      | 0.3       |
| NEGATIVE SUB-TOTAL                                                                           | 25,381   |              | 685.6     |
| TOTAL DISSOLVED SOLIDS                                                                       | 40,507   |              | 1,371.2   |

• BICARBONATE

SPECIFIC GRAVITY 1.0313 @ 60 OF pH 7.57 RES. 0.205 @ 80 OF

ANALYST                       
REQUESTED BY Carolyn Bulovas  
Houston

REACTION VALUE = (MILLIGRAMS/LITER) X (REACTION COEFFICIENT)  
REACTION COEFFICIENT = VALENCE ÷ MOLECULAR WEIGHT.

REACTION COEFFICIENT = VALENCE  $\div$  MOLECULAR WEIGHT.

cc: Mr. Donnie Anderson, Midland

**SHELL OIL COMPANY**  
**WATER ANALYSIS REPORT**  
**MID-CONTINENT DIVISION**

**SCALE POTENTIAL OF THIS WATER**

|                 | VERY<br>LIKELY           | SLIM<br>POSSIBILITY                 | NONE                                |
|-----------------|--------------------------|-------------------------------------|-------------------------------------|
| $\text{CaCO}_3$ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| $\text{CaSO}_4$ | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| $\text{BaSO}_4$ | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Acid Returns    | <input type="checkbox"/> | DSF <input type="checkbox"/>        | Other <input type="checkbox"/>      |

**SAMPLE DESCRIPTION**

COMPANY Shell Western E&P, Inc.  
 FIELD Grizzel  
 LEASE Grizzel  
 WELL NUMBER #3  
 COUNTY & STATE Lea, NM  
 PRODUCING FORMATION Penrose Skelly Grayburg  
 WHERE SAMPLED \_\_\_\_\_  
 REMARKS \_\_\_\_\_

LABORATORY Martin Water Labs., Inc.  
 LABORATORY NUMBER 684393 (Page 2)  
 DATE SAMPLE TAKEN 6-26-84  
 DATE SAMPLE RECEIVED 6-29-84  
 DATE SAMPLE REPORTED 7-5-84

**CHEMICAL AND PHYSICAL PROPERTIES**

TOTAL HARDNESS Mg/L AS  $\text{CaCO}_3$  12,700

TOTAL ALKALINITY Mg/L AS  $\text{CaCO}_3$  2,825

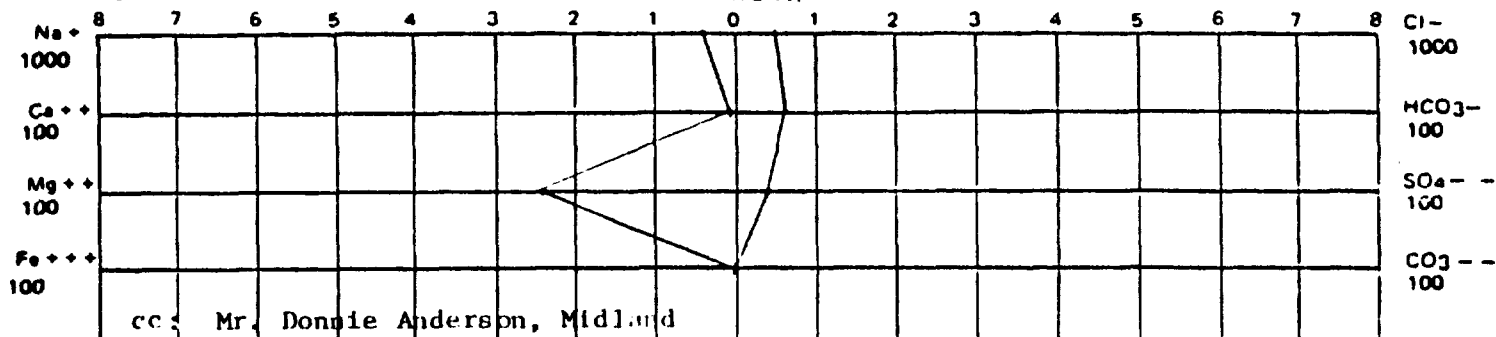
| CONSTITUENT                                                                  | Mg/LITER | REACT. COEF. | Meq/LITER |
|------------------------------------------------------------------------------|----------|--------------|-----------|
| SODIUM (INCL. POTASSIUM) AS $\text{Na}^+$                                    | 8,423    | 0.04350      | 366.2     |
| CALCIUM - $\text{Ca}^{++}$                                                   | 272      | 0.04990      | 13.6      |
| MAGNESIUM - $\text{Mg}^{++}$                                                 | 2,921    | 0.08224      | 240.2     |
| IRON TOTAL - $\text{Fe}^{++}$ & $\text{Fe}^{+++}$                            | 5.3      | 0.03581      | 0.2       |
| BARIUM - $\text{Ba}^{++}$                                                    |          | 0.01460      |           |
| POSITIVE SUB-TOTAL                                                           | 11,621   |              | 620.2     |
| CHLORIDE - $\text{Cl}^-$                                                     | 18,110   | 0.02820      | 510.7     |
| <del>X</del> CARBONATE & BICARBONATE - $\text{CO}_3^{--}$ & $\text{HCO}_3^-$ | 3,447    | 0.01639 *    | 56.5      |
| SULFATE - $\text{SO}_4^{--}$                                                 | 1,995    | 0.02082      | 41.5      |
| HYDROXYL - $\text{OH}^-$                                                     | 0        | 0.05880      | 0.0       |
| SULFIDE - $\text{S}^{--}$                                                    | 184      | 0.06238      | 11.5      |
| NEGATIVE SUB-TOTAL                                                           | 23,736   |              | 620.2     |
| TOTAL DISSOLVED SOLIDS                                                       | 35,357   |              | 1,240.4   |

\* BICARBONATE

SPECIFIC GRAVITY 1.0266 @ 60 °F pH (7.26) RES. 0.225 @ 80 °F

ANALYST \_\_\_\_\_  
 REQUESTED BY Carolyn Bulovas  
Houston

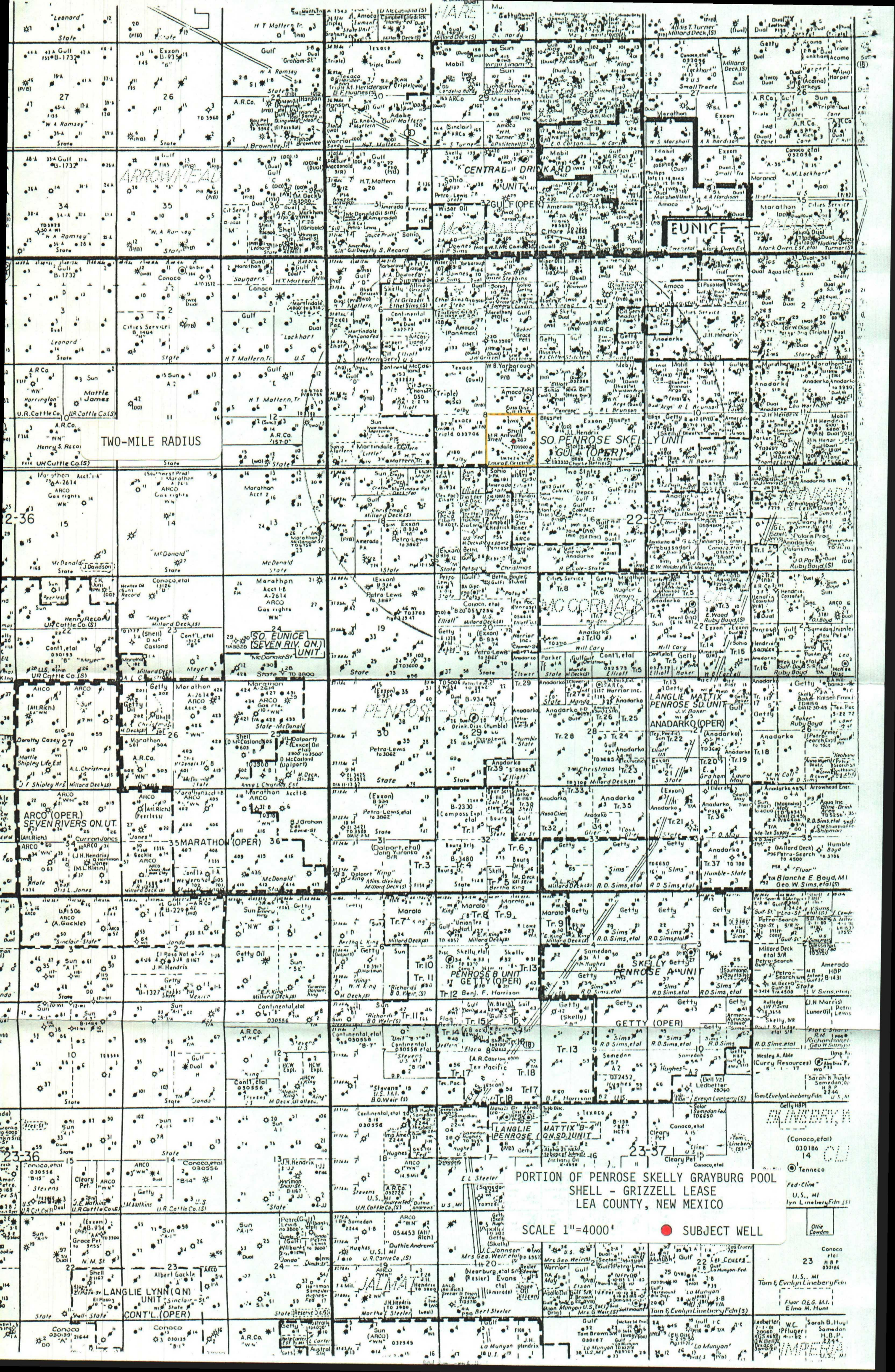
REACTION VALUE = (MILLIGRAMS/LITER) X (REACTION COEFFICIENT)  
 REACTION COEFFICIENT = VALENCE ÷ MOLECULAR WEIGHT.













|                        |  |
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| OPERATOR               |  |

Plugging detail for PA'd wells within area of review

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease  
State ☐ Fee ☒

5. State Oil & Gas Lease No.

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 -" (FORM C-101) FOR SUCH PROPOSALS.)

|                                                                                                                                                                                                        |                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER                                                                                       | 7. Unit Agreement Name                        |
| 2. Name of Operator<br>Morris R. Antweil                                                                                                                                                               | 8. Farm or Lease Name<br>Shell "G"            |
| 3. Address of Operator<br>P O Box 2010                                                                                                                                                                 | 9. Well No.<br>1                              |
| 4. Location of Well<br>UNIT LETTER <u>P</u> <u>330</u> FEET FROM THE <u>South</u> LINE AND <u>330</u> FEET FROM<br>THE <u>East</u> LINE, SECTION <u>8</u> TOWNSHIP <u>22-S</u> RANGE <u>37-E</u> NMPM. | 10. Field and Pool, or Wildcat<br>Undersigned |
| 15. Elevation (Show whether DF, RT, GR, etc.)<br>3411' KB                                                                                                                                              | 12. County<br>Lea                             |

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

|                                                |                                           |                                                      |                                                          |
|------------------------------------------------|-------------------------------------------|------------------------------------------------------|----------------------------------------------------------|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/>               | ALTERING CASING <input type="checkbox"/>                 |
| TEMPORARILY ABANDON <input type="checkbox"/>   | CHANGE PLANS <input type="checkbox"/>     | COMMENCE DRILLING OPNS. <input type="checkbox"/>     | PLUG AND ABANDONMENT <input checked="" type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/>  | OTHER <input type="checkbox"/>            | CASING TEST AND CEMENT JOBS <input type="checkbox"/> |                                                          |

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. Spotted a 25 sx. cement plug across perforations 7319'-7327'.
2. Spotted a 25 sx. cement plug at 4½" casing stub at 2260'.
3. Spotted a 25 sx. cement plug at 8½/8" casing shoe at 1200'.
4. Spotted a 10 sx. cement plug at surface with marker.
5. Hole was loaded with mud laden fluids.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Agent DATE 7-8-70

APPROVED BY [Signature] TITLE Geologist DATE JUL 16 1971

CONDITIONS OF APPROVAL, IF ANY:



|                        |  |
|------------------------|--|
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| DISTRIBUTION           |  |
| SANTA FE               |  |
| FILE                   |  |
| U.S.G.S.               |  |
| LAND OFFICE            |  |
| OPERATOR               |  |

Form C-105  
Revised 1-1-65

# NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                |                                         |
|--------------------------------|-----------------------------------------|
| 5a. Indicate Type of Lease     |                                         |
| State <input type="checkbox"/> | Fee <input checked="" type="checkbox"/> |
| 5. State Oil & Gas Lease No.   |                                         |
| -----                          |                                         |

## 1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☒ OTHER \_\_\_\_\_

## b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER \_\_\_\_\_

## 2. Name of Operator

Morris R. Antweil

## 3. Address of Operator

Box 2010, Hobbs, New Mexico 88240

## 4. Location of Well

UNIT LETTER P LOCATED 330 FEET FROM THE South LINE AND 330 FEET FROM

THE East LINE OF SEC. 8 TWP. 22-S RGE. 37-E NMPM

## 12. County

Lea

15. Date Spudded 3 Oct. 69 16. Date T.D. Reached 19 Oct. 69 17. Date Compl. (Ready to Prod.) P&A 8 Jul. 70 18. Elevations (DF, RKB, RT, GR, etc.) 3411' KB 19. Elev. Casinghead 3401'

20. Total Depth 7424' 21. Plug Back T.D. \_\_\_\_\_ 22. If Multiple Compl., How Many \_\_\_\_\_ 23. Intervals Drilled By all Rotary Tools \_\_\_\_\_ Cable Tools \_\_\_\_\_

## 24. Producing Interval(s), of this completion - Top, Bottom, Name

P & A

## 25. Was Directional Survey Made

No.

## 26. Type Electric and Other Logs Run

Sonic, GR, LL, MLL

## 27. Was Well Cored

No.

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

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|----------------|-----------|-----------|------------------|---------------|
| 8-5/8"      | 32#            | 1193'     | 11"       | 385 sx-Circ.     | None          |
| 4-1/2"      | 9.5 & 11.6#    | 7420'     | 7-7/8"    | 240 sx.          | 2260'         |

## 29. LINER RECORD

## 30. TUBING RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE | DEPTH SET | PACKER SET |
|------|-----|--------|--------------|--------|------|-----------|------------|
|      |     |        |              |        |      |           |            |

## 31. Perforation Record (Interval, size and number)

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

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|----------------|-------------------------------|
|                |                               |
|                |                               |
|                |                               |

## 33. PRODUCTION

|                       |                 |                                                                     |                         |            |              |                                |                 |
|-----------------------|-----------------|---------------------------------------------------------------------|-------------------------|------------|--------------|--------------------------------|-----------------|
| Date First Production |                 | Production Method (Flowing, gas lift, pumping - Size and type pump) |                         |            |              | Well Status (Prod. or Shut-in) |                 |
| Date of Test          | Hours Tested    | Choke Size                                                          | Prod'n. For Test Period | Oil - Bbl. | Gas - MCF    | Water - Bbl.                   | Gas - Oil Ratio |
| Flow Tubing Press.    | Casing Pressure | Calculated 24-Hour Rate                                             | Oil - Bbl.              | Gas - MCF  | Water - Bbl. | Oil Gravity - API (Corr.)      |                 |

## 34. Disposition of Gas (Sold, used for fuel, vented, etc.)

## Test Witnessed By

## 35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Rm Williams TITLE Agent

DATE 7-30-70



|                        |  |  |
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| OPERATOR               |  |  |

# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

|                                |                                         |
|--------------------------------|-----------------------------------------|
| 5a. Indicate Type of Lease     |                                         |
| State <input type="checkbox"/> | Fee <input checked="" type="checkbox"/> |
| 5. State Oil & Gas Lease No.   |                                         |

|                                                                                                                                                                                                                                |  |                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><small>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)</small> |  |                                                        |
| 1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- <b>Dry Hole</b>                                                                                                                                  |  | 7. Unit Agreement Name                                 |
| 2. Name of Operator<br><b>Stolts, Wagner &amp; Brown</b>                                                                                                                                                                       |  | 8. Farm or Lease Name<br><b>Greenwood</b>              |
| 3. Address of Operator<br><b>c/o Oil Reports &amp; Gas Services, Inc., Box 763, Hobbs, N. M. 88240</b>                                                                                                                         |  | 9. Well No.<br><b>1</b>                                |
| 4. Location of Well<br>UNIT LETTER <b>M</b> <b>330</b> FEET FROM THE <b>South</b> LINE AND <b>500</b> FEET FROM<br>THE <b>West</b> LINE, SECTION <b>9</b> TOWNSHIP <b>22 S</b> RANGE <b>37 E</b> N.M.P.M.                      |  | 10. Field and Pool, or Wildcat<br><b>So. McCormack</b> |
| 15. Elevation (Show whether DF, RT, GR, etc.)<br><b>3403 GR</b>                                                                                                                                                                |  | 12. County<br><b>Lea</b>                               |

|                                                                                                                                                                                   |                                                                                    |                                                                                                                                                                                      |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data<br>NOTICE OF INTENTION TO:                                                                           |                                                                                    | SUBSEQUENT REPORT OF:                                                                                                                                                                |                                                                                                      |
| PERFORM REMEDIAL WORK <input type="checkbox"/><br>TEMPORARILY ABANDON <input type="checkbox"/><br>PULL OR ALTER CASING <input type="checkbox"/><br>OTHER <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/><br>CHANGE PLANS <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/><br>COMMENCE DRILLING OPNS. <input type="checkbox"/><br>CASING TEST AND CEMENT JOBS <input type="checkbox"/><br>OTHER <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/><br>PLUG AND ABANDONMENT <input checked="" type="checkbox"/> |

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

**Plugged and abandoned 3/26/71 as follows:**

25 sack plug at 7278'  
cut and pulled 4 1/2" casing from 6875.  
25 sack plugs at 6875, 6160, 6030, 5485,  
5035, 2400 and 1162.  
10 sacks at surface with regulation marker.  
Location cleared and levelled and ready for  
inspection.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Donna Helles TITLE Agent DATE 5/25/71

APPROVED BY John W. Runyan TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



|                        |  |
|------------------------|--|
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Form C-105  
Revised 1-1-65

# NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                |                                         |
|--------------------------------|-----------------------------------------|
| 5a. Indicate Type of Lease     |                                         |
| State <input type="checkbox"/> | Fee <input checked="" type="checkbox"/> |
| 5. State Oil & Gas Lease No.   |                                         |
|                                |                                         |

1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☒ OTHER \_\_\_\_\_

b. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER \_\_\_\_\_

|                        |
|------------------------|
| 7. Unit Agreement Name |
| 8. Farm or Lease Name  |
| <b>Greenwood</b>       |

2. Name of Operator  
**Stelts, Wagner & Brown**

9. Well No.  
**1**

3. Address of Operator  
**c/o Oil Reports & Gas Services, Inc., Box 763, Hobbs, N. M. 88240**

10. Field and Pool, or Wildcat  
**So. McCormack**

4. Location of Well

UNIT LETTER **M** LOCATED **330** FEET FROM THE **South** LINE AND **500** FEET FROM

|            |
|------------|
| 12. County |
| <b>Lea</b> |

THE **West** LINE OF SEC. **9** TWP. **22S** RGE. **37E** NMPM

|                                   |                                         |                                  |                                                          |                      |
|-----------------------------------|-----------------------------------------|----------------------------------|----------------------------------------------------------|----------------------|
| 15. Date Spudded<br><b>2/6/71</b> | 16. Date T.D. Reached<br><b>2/28/71</b> | 17. Date Compl. (Ready to Prod.) | 18. Elevations (DF, RKB, RT, GR, etc.)<br><b>3403 GR</b> | 19. Elev. Casinghead |
|-----------------------------------|-----------------------------------------|----------------------------------|----------------------------------------------------------|----------------------|

|                                |                    |                                  |                                                 |             |
|--------------------------------|--------------------|----------------------------------|-------------------------------------------------|-------------|
| 20. Total Depth<br><b>7335</b> | 21. Plug Back T.D. | 22. If Multiple Compl., How Many | 23. Intervals Drilled By<br><b>Rotary Tools</b> | Cable Tools |
|--------------------------------|--------------------|----------------------------------|-------------------------------------------------|-------------|

24. Producing Interval(s), of this completion - Top, Bottom, Name  
**None P & A 3/26/71**

25. Was Directional Survey Made  
**Yes**

26. Type Electric and Other Logs Run  
**Acoustic Velocity, Guard, Forxo**

27. Was Well Cored

| 28. CASING RECORD (Report all strings set in well) |                |             |               |                  |               |
|----------------------------------------------------|----------------|-------------|---------------|------------------|---------------|
| CASING SIZE                                        | WEIGHT LB./FT. | DEPTH SET   | HOLE SIZE     | CEMENTING RECORD | AMOUNT PULLED |
| <b>8 5/8</b>                                       | <b>24#</b>     | <b>1162</b> | <b>11 1/4</b> | <b>325</b>       | <b>none</b>   |
| <b>4 1/2</b>                                       | <b>10.5#</b>   | <b>7335</b> | <b>7 7/8</b>  | <b>75</b>        | <b>6875</b>   |
|                                                    |                |             |               |                  |               |
|                                                    |                |             |               |                  |               |

| 29. LINER RECORD |     |        |              | 30. TUBING RECORD |      |           |            |
|------------------|-----|--------|--------------|-------------------|------|-----------|------------|
| SIZE             | TOP | BOTTOM | SACKS CEMENT | SCREEN            | SIZE | DEPTH SET | PACKER SET |
|                  |     |        |              |                   |      |           |            |
|                  |     |        |              |                   |      |           |            |

|                                                    |  |                                                |                                    |
|----------------------------------------------------|--|------------------------------------------------|------------------------------------|
| 31. Perforation Record (Interval, size and number) |  | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |                                    |
| 7281 - 7301 1/2" jet shot per foot                 |  | DEPTH INTERVAL                                 | AMOUNT AND KIND MATERIAL USED      |
|                                                    |  | 7281-7301                                      | 11,000 gal 15% N E acid, swab dry. |
|                                                    |  |                                                |                                    |
|                                                    |  |                                                |                                    |

33. PRODUCTION

|                       |                                                                     |                                |
|-----------------------|---------------------------------------------------------------------|--------------------------------|
| Date First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |
|                       |                                                                     | <b>P &amp; A</b>               |
| Date of Test          | Hours Tested                                                        | Choke Size                     |
|                       |                                                                     |                                |
| Flow Tubing Press.    | Casing Pressure                                                     | Calculated 24-Hour Rate        |
|                       |                                                                     |                                |

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

35. List of Attachments  
**1 copy electric logs**

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Wonna Hollos TITLE Agent DATE 5/26/71

**AFFIDAVIT OF PUBLICATION**

State of New Mexico,

County of Lea.

1, \_\_\_\_\_

Robert L. Summers

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

of \_\_\_\_\_

One weeks.

Beginning with the issue dated

August 16, 19 84

and ending with the issue dated

August 16, 19 84

Robert L. Summers  
Publisher.

Sworn and subscribed to before

me this 20 day of

August, 1984

Jane Paulowsky  
Notary Public.

My Commission expires \_\_\_\_\_

3-24, 1987

(Seal)

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 1984  
The undersigned, \_\_\_\_\_  
do hereby certify that the  
clipping attached hereto  
was published once a week  
in the regular and entire  
issue of said paper, and  
not in a supplement thereof  
for a period of \_\_\_\_\_  
weeks.  
Beginning with the issue dated  
\_\_\_\_\_, 19\_\_\_\_  
and ending with the issue dated  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_  
Publisher.  
Sworn and subscribed to before  
me this \_\_\_\_\_ day of  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_  
Notary Public.  
My Commission expires \_\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_  
(Seal)





## GEOLOGICAL DATA

### Injection Zone

Geological Name: Penrose Skelly - Grayburg  
Depth: 3590'  
Lithology: Silty, anhydritic dolomite  
Thickness: 400'

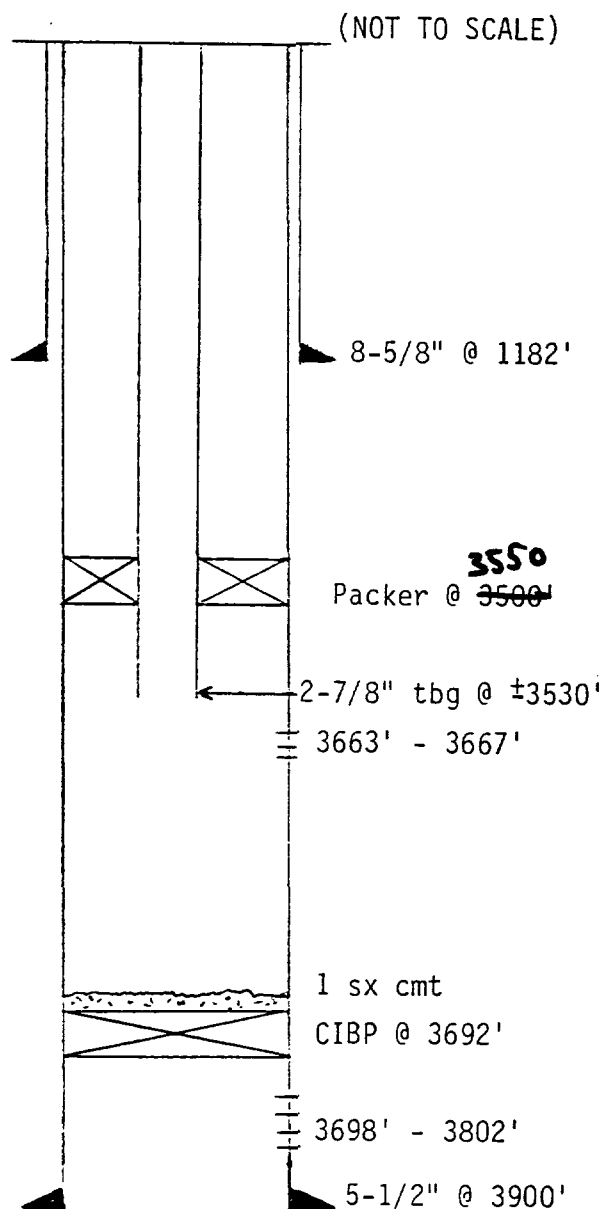
### Fresh Drinking Water Source (10,000 mg/l)

Geological Name: Ogalalla (main source)  
Depth: Base at 1123' (coincides with top of Rustler)  
NOTE: No fresh water source is known to be immediately underlying the injection interval.

## INJECTION WELL DATA SHEET

|                        |                       |          |          |       |
|------------------------|-----------------------|----------|----------|-------|
| SHELL WESTERN E&P INC. |                       | GRIZZELL |          |       |
| OPERATOR               |                       | LEASE    |          |       |
| 11                     | 1300' FSL & 1139' FEL | 8        | 22-S     | 37-E  |
| WELL NO.               | FOOTAGE LOCATION      | SECTION  | TOWNSHIP | RANGE |

## Schematic



## Tabular Data

## Surface Casing

Size 8-5/8 " Cemented with 600 sx.  
TOC SURFACE feet determined by CALCULATION  
Hole size 11"

## Intermediate Casing

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

## Long string

Size 5-1/2 " Cemented with 475 sx.  
TOC 2100 feet determined by CALCULATION  
Hole size 7-7/8"  
Total depth 3915'

## Injection interval

3663 feet to 3667 feet  
(perforated) or open-hole, indicate which)

TD @ 3915'

Tubing size 2-7/8" lined with FIBERGLASS set in a  
(material)  
BAKER TENSION packer at 3500 feet  
(brand and model)  
(or describe any other casing-tubing seal).

## Other Data

- Name of the injection formation PENROSE SKELLY - GRAYBURG
- Name of Field or Pool (if applicable) PENROSE SKELLY GRAYBURG POOL
- Is this a new well drilled for injection? ☐ Yes ☒ No  
If no, for what purpose was the well originally drilled? PRODUCER
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) SEE ATTACHED SHEET
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. YATES @ 2560', 7 RIVERS @ 2815', QUEEN @ 3320', PENROSE @ 3430', GRAYBURG @ 3590', GLORIETA @ 5070', PADDOCK @ 5162', BLINEBRY @ 5523', TUBB @ 6056', DRINKARD @ 6347', FUSSELMAN @ 7188'



INJECTION WELL DATA SHEET  
(ATTACHMENT)

OTHER DATA

B.4.) Well #11 has also been perforated at the following intervals:  
3698' - 3708', 3780' - 3782', 3789' - 3791', 3800' - 3802'.

Proposed Plugging Procedure of Perf's 3698' - 3802':

1. Check for communication between perf's @ 3698' - 3802' and the perf's of the injection interval (3663' - 3667').
2. If no communication exists, set a CIBP w/1 sx cmt @ 3692'.
3. If communication exists, will squeeze all perf's (3663' - 3802') and re-perforate injection interval.

SHELL - GRIZZELL LEASE

WELL NO.

SURFACE OWNER

11

LUCY E. FLOWERS  
P. O. BOX 1453  
HOBBS, NM 88240

OFFSET OPERATORS

AMOCO PRODUCTION COMPANY  
P. O. BOX 68  
HOBBS, NM 88240

GULF OIL EXPLORATION AND PRODUCTION CO.  
P. O. BOX 670  
HOBBS, NM 88240

SOHIO PETROLEUM COMPANY  
10 DESTA DR.  
STE. 600 WEST  
MIDLAND, TX 79705

EXXON COMPANY, U.S.A.  
P. O. BOX 2180  
HOUSTON, TX 77001

CONOCO INC.  
P. O. BOX 460  
HOBBS, NM 88240

TWO STATES OIL CO.  
P. O. BOX 176  
EUNICE, NM 88231

TEXACO INC.  
P. O. BOX 728  
HOBBS, NM 88240



SHELL WESTERN E&P INC -- GRIZZELL NO. 11  
WELLS WITHIN AREA OF REVIEW ALL IN T22S R37E  
LEA COUNTY, N.M.

| Lease Well #                     | Lease Name/Operator Zone | Well Status as of 6/84 | Original Completion Date | Footage    | Location | Total Depth | Perfs          | CASING       |         |                               |         |
|----------------------------------|--------------------------|------------------------|--------------------------|------------|----------|-------------|----------------|--------------|---------|-------------------------------|---------|
|                                  |                          |                        |                          |            |          |             |                | Surface      |         | Production                    |         |
|                                  |                          |                        |                          |            |          |             |                | Size & Depth | Cement  | Size & Depth                  | Cement  |
| Grizzell Lease/Shell (Section 8) |                          |                        |                          |            |          |             |                |              |         |                               |         |
| 1.                               | Penrose Skelly Grayburg  | Producer               | 02/03/1938               | 1980 FSL + | 1980 FEL | 3,718       | 3,568-3,718 OH | 8 5/8 @      | 500 SX  | 5 1/2" @ 3,569                | 175 SX  |
| 2.                               | Penrose Skelly Grayburg  | Producer               | 03/03/1938               | 1980 FSL + | 660 FEL  | 3,712       | 3,563-3,712 OH | 10 3/4 @     | 500 SX  | 5 1/2" @ 3,563                | 100 SX  |
| 3.                               | Penrose Skelly Grayburg  | Producer               | 11/09/1938               | 660 FSL +  | 660 FEL  | 3,709       | 3,559-3,709 OH | 8 5/8 @      | 500 SX  | 5 1/2" @ 3,559                | 125 SX  |
| 4.                               | Penrose Skelly Grayburg  | Shut in                | 12/12/1938               | 660 FSL +  | 1980 FEL | 3,712       | 3,562-3,712 OH | 8 5/8 @      | 500 SX  | 5 1/2" @ 3,562                | 125 SX  |
| 5.                               | Paddock                  | Producer               | 12/09/1947               | 2090 FSL + | 550 FEL  | 5,244       | 5,160-5,235    | 8 5/8 @      | 600 SX  | 5 1/2" @ 5,243                | 800 SX  |
| 6.                               | Blinebry                 | Producer               | 08/01/1952               | 2200 FSL + | 420 FEL  | 6,541       | 6,418-6,511    | 13 3/8 @     | 300 SX  | 5 1/2" liner @ 2,589-6,536 w/ | 700 SX  |
|                                  |                          |                        |                          |            |          |             |                | 8 5/8 @      | 1600 SX |                               |         |
| 7.                               | Blinebry                 | Producer               | 09/04/1952               | 2310 FSL + | 1650 FEL | 6,537       | 6,415-6,515    | 13 3/8 @     | 250 SX  | 5 1/2" liner @ 2,584-6,535 w/ | 700 SX  |
|                                  |                          |                        |                          |            |          |             |                | 8 5/8 @      | 1500 SX |                               |         |
| 8.                               | Blinebry/Drinkard        | Producer               | 10/06/1952               | 990 FSL +  | 330 FEL  | 6,513       | 6,420-6,500    | 13 3/8 @     | 300 SX  | 5 1/2" liner @ 2,559-6,510 w/ | 675 SX  |
|                                  |                          |                        |                          |            |          |             |                | 8 5/8 @      | 1500 SX |                               |         |
| 9.                               | Blinebry                 | Producer               | 07/27/1963               | 810 FSL +  | 1980 FEL | 6,575       | 6,459-6,509    | 8 5/8 @      | 250 SX  | 4 1/2" @ 6,572                | 200 SX  |
| 10.                              | Brunson                  | Producer               | 04/28/1980               | 1940 FSL + | 380 FEL  | 7,508       | 7,188-7,232    | 16 @         | 70      | 8 5/8" @ 3,910                | 1400 SX |
|                                  |                          |                        |                          |            |          |             |                | 11 3/4 @     | 800 SX  | 5 1/2" @ 7,505                | 425 SX  |
| 11.                              | Penrose Skelly Grayburg  | Shut in                | 09/26/1975               | 1300 FSL + | 1139 FEL | 3,900       | 3,663-67       | 8 5/8 @      | 600 SX  | 5 1/2" @ 3,900                | 475 SX  |
|                                  |                          |                        |                          |            |          |             | 3,698-3,708    |              |         |                               |         |
|                                  |                          |                        |                          |            |          |             | 3,780-3,782    |              |         |                               |         |
|                                  |                          |                        |                          |            |          |             | 3,789-3,791    |              |         |                               |         |
|                                  |                          |                        |                          |            |          |             | 3,800-3,802    |              |         |                               |         |

Grizzell "B"/Amoco (Section 8)

|    |          |          |            |            |          |       |             |          |        |                         |        |
|----|----------|----------|------------|------------|----------|-------|-------------|----------|--------|-------------------------|--------|
| 1. | Blinebry | Producer | 11/09/1937 | 1980 FNL + | 1980 FEL | 6,580 | 5,498-5,941 | 10 3/4 @ | 200 SX | 5 1/2" liner @          |        |
|    |          |          |            |            |          |       |             | 7 @      | 325 SX | 3,348-6,579 w/          | 300 SX |
| 2. | Paddock  | Producer | 12/16/1937 | 1980 FNL + | 660 FEL  | 5,260 | 5,228-5,260 | 10 3/4 @ | 200 SX |                         |        |
|    |          |          |            |            |          |       |             | 7 @      | 500 SX | 5 1/2" @ 5,260 w/110 SX |        |

| Lease Well #                                   | Lease Name/Operator Zone | Well Status as of 6/84 | Original Completion Date | Footage Location | Total Depth | Perfs          | CASING         |         |                               |         |
|------------------------------------------------|--------------------------|------------------------|--------------------------|------------------|-------------|----------------|----------------|---------|-------------------------------|---------|
|                                                |                          |                        |                          |                  |             |                | Surface        |         | Production                    |         |
|                                                |                          |                        |                          |                  |             |                | Size & Depth   | Cement  | Size & Depth                  | Cement  |
| <u>Grizzell "B"/Amoco (Section 8) (Cont'd)</u> |                          |                        |                          |                  |             |                |                |         |                               |         |
| 3.                                             | Fusselman                | Producer               | 11/19/1979               | 1830 FNL +       | 7,500       | 7,168-7,202    | 13 3/8 @ 1,162 | 700 SX  | 7"                            | 1250 SX |
| 4.                                             | Drinkard                 | Producer               | 06/20/1980               | 1838 FNL +       | 7,500       | 6,423-6,686    | 9 5/8 @ 3,900  | 1485 SX |                               |         |
|                                                |                          |                        |                          |                  |             |                | 13 3/8 @ 1,163 | 700 SX  |                               |         |
|                                                |                          |                        |                          |                  |             |                | 9 5/8 @ 1,608  | 2100 SX | 7"                            | 600 SX  |
| <u>Falby "A"/Texaco (Section 8)</u>            |                          |                        |                          |                  |             |                |                |         |                               |         |
| 3.                                             | Blinebry                 | Shut in                | 08/11/1938               | 1980 FNL +       | 6,558       | 5,532-5,939    | 10 3/4 @ 398   | 300 SX  | 5"                            | 200 SX  |
|                                                |                          |                        |                          |                  |             |                | 7" @ 3514      | 300 SX  |                               |         |
| <u>Falby "B"/Texaco (Section 8)</u>            |                          |                        |                          |                  |             |                |                |         |                               |         |
| 1.                                             | Eumont-Yates-7 Riv-Queen | Producer               | 03/29/1938               | 1980 FSL +       | 6,550       | 6,490-6,538    | 10 3/4 @ 349   | 300 SX  | 4 1/2" liner @ 3,371-6,549 w/ | 200 SX  |
|                                                |                          |                        |                          |                  |             |                | 7" @ 3500      | 300 SX  |                               |         |
| 2.                                             | Penrose Skelly Grayburg  | Shut in                | 06/13/1939               | 660 FSL +        | 3,720       | 3,512-3,720 OH | 10 3/4 @ 329   | 180 SX  | 5 1/2" @ 3,512                | 300 SX  |
| <u>Elliot U.S./T.P.C.&amp; O. (Section 17)</u> |                          |                        |                          |                  |             |                |                |         |                               |         |
| 3.                                             | Drinkard                 | Producer               | 12/18/1962               | 330 FNL +        | 6,577       | 6,465-6,529    | 10 3/4 @ 330   | 300 SX  | 4 1/2" liner @ 3,730-6,577 w/ | 400 SX  |
|                                                |                          |                        |                          |                  |             |                | 7 5/8 @ 3823   | 2328 SX |                               |         |



| Lease Well #                                | Lease Name/Operator Zone | Well Status as of 6/84 | Original Completion Date | Footage Location   | Total Depth    | Perfs                         | CASING                                                        |                                       |                                  |                  |
|---------------------------------------------|--------------------------|------------------------|--------------------------|--------------------|----------------|-------------------------------|---------------------------------------------------------------|---------------------------------------|----------------------------------|------------------|
|                                             |                          |                        |                          |                    |                |                               | Surface Size & Depth                                          |                                       | Production Size & Depth          |                  |
| <u>State P/Sohio (Section 17)</u>           |                          |                        |                          |                    |                |                               |                                                               |                                       |                                  |                  |
| 1.                                          | Penrose Skelly           | Shut in                | 11/07/1938               | 660 FN + 1980 FE   | 3,710          | 3,490-3,710 OH                | 8 5/8 @ 1138                                                  | 500 SX                                | 5 1/2" @ 3,490                   | 150 SX           |
| <u>State P/Amerada (Section 17)</u>         |                          |                        |                          |                    |                |                               |                                                               |                                       |                                  |                  |
| 3.                                          | Drinkard                 | Producer               | 03/11/1976               | 660 FNL + 2100 FEL | 6,650          | 6,460-6,533                   | 8 5/3 @ 1175                                                  | 450 SX                                | 5 1/2"@ 6,649                    | 1900 SX          |
| <u>U.S. Elliot/Continental (Section 17)</u> |                          |                        |                          |                    |                |                               |                                                               |                                       |                                  |                  |
| 1.                                          | Penrose Skelly Grayburg  | Producer               | 08/05/1938               | 660 FNL + 660 FEL  | 3,703          | 3,530-3,703 OH                | 10 3/4 @ 262                                                  | 225 SX                                | 5 1/2" @ 3,530                   | 425 SX           |
| 2.                                          | Drinkard                 | Producer               | 12/01/1974               | 330 FNL + 330 FEL  | 6,650          | 6,396-6,507                   | 8 5/8 @ 1150                                                  | 600 SX                                | 5 1/2" @ 6,650                   | 750 SX           |
| <u>State Cole/Gulf (Section 16)</u>         |                          |                        |                          |                    |                |                               |                                                               |                                       |                                  |                  |
| 12. 2-B                                     | Silurian Penrose Skelly  | Shut in Producer       | 05/17/1968<br>06/23/1938 | 990 FNL + 600 FNL  | 7,350<br>3,694 | 7,234-7,260<br>3,525-3,694 OH | 9 5/8 @ 1196<br>7 5/8 @ 289                                   | 500 SX<br>150 SX                      | 5 1/2" @ 7,350<br>5 1/2" @ 3,525 | 815 SX<br>250 SX |
| <u>J. L. Greenwood/Exxon (Section 9)</u>    |                          |                        |                          |                    |                |                               |                                                               |                                       |                                  |                  |
| 13.                                         | Brunson Fusselman        | Producer               | 11/20/1947               | 1980 FSL + 990 FWL | 8,133          | 7,208-7,224                   | 10 3/4 @ 319<br>7 5/8 @ 2805                                  | 225 SX<br>1275 SX                     | 5 1/2" @ 8,133<br>7" @ 3,538     | 150 SX<br>400 SX |
| 3.                                          | Penrose Skelly           | Producer               | 11/02/1938               | 660 FSL + 660 FWL  | 3,705          | 3,538-3,705 OH                | 9 5/8 @ 440                                                   | 125 SX                                |                                  |                  |
| 14.                                         | Paddock                  | Producer               | 12/19/1947               | 1905 FSL + 990 FWL | 5,200          | 5,045-5,125                   | 13 3/8 @ 329                                                  | 300 SX                                |                                  |                  |
| 15.                                         | Drinkard                 | Producer               | 01/17/1953               | 760 FSL + 660 FWL  | 6,500          | 6,420-6,492                   | 7 5/8 @ 2799<br>10 3/4 @ 329<br>7 5/8 @ 3178<br>5 1/2 @ 6,499 | 850 SX<br>300 SX<br>1800 SX<br>200 SX | 5 1/2" @ 5,199                   | 350 SX           |

| Lease<br>Well #                       | Lease Name/Operator<br>Zone | Well<br>Status<br>as of 6/84 | Original<br>Completion<br>Date | Footage Location   | Total<br>Depth | Perfs          | CASING              |             |                   |                       |
|---------------------------------------|-----------------------------|------------------------------|--------------------------------|--------------------|----------------|----------------|---------------------|-------------|-------------------|-----------------------|
|                                       |                             |                              |                                |                    |                |                | Surface             |             | Production        |                       |
|                                       |                             |                              |                                |                    |                |                | Size & Depth        | Cement      | Size & Depth      | Cement                |
| <u>Elliot/Continental (Section 9)</u> |                             |                              |                                |                    |                |                |                     |             |                   |                       |
| 1.                                    | Penrose Skelly              | Producer                     | 03/17/1938                     | 1980 FNL + 660 FWL | 3,725          | 3,417-3,725 OH | 10 3/4 @<br>7 5/8 @ | 297<br>1195 | 225 SX<br>425 SX  | 5 1/2" @ 3,417 425 SX |
| <u>Elliot/Sohio (Section 9)</u>       |                             |                              |                                |                    |                |                |                     |             |                   |                       |
| 2.                                    | Paddock                     | Producer                     | 03/15/1946                     | 2086 FNL + 766 FWL | 5,245          | 5,158-5,168    | 13 3/8 @<br>9 5/8 @ | 153<br>2775 | 150 SX<br>1400 SX | 7" @ 5,202 400 SX     |
| 3.                                    | Brunson Ellenburger         | Producer                     | 01/20/1947                     | 1874 FNL + 766 FWL | 8,120          | 8,090-8,120 OH | 13 3/8 @<br>9 5/8 @ | 153<br>2785 | 165 SX<br>1400 SX | 7" @ 8,090 800 SX     |
| 4.                                    | Drinkard                    | Producer                     | 07/02/1953                     | 2310 FNL + 330 FWL | 6,510          | 6,464-6,510 OH | 10 3/4 @<br>7 5/8 @ | 185<br>2783 | 200 SX<br>450 SX  | 5 1/2" @ 6,464 300 SX |

Plugging detail for P&A'd wells within the area of review is attached.



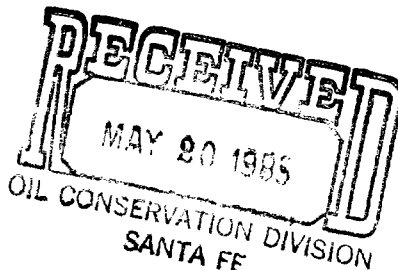
STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

TONY ANAYA  
GOVERNOR

May 10, 1985

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88240  
(505) 393-6161

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501



RE: Proposed:

MC \_\_\_\_\_  
DHC \_\_\_\_\_  
NSL \_\_\_\_\_  
NSP \_\_\_\_\_  
SWD \_\_\_\_\_  
WFX \_\_\_\_\_ X  
PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

|                          |                  |      |       |         |
|--------------------------|------------------|------|-------|---------|
| Shell Western E & P Inc. | Grizzell         | 11   | P     | 8-22-37 |
| Operator                 | Lease & Well No. | Unit | S-T-R |         |

and my recommendations are as follows:

Is within 2 miles of Grayburg Production. Will require hearing.

Yours very truly,

*Jerry Sexton*  
Jerry Sexton  
Supervisor, District 1

/mc

NOTE: NEW Project!  
Needs Hearing

By authority of R.L. Stamato  
approve under order No. R-2794  
Disbanded WF unit in the area.  
Shell must submit any new data in the area.

*gpg*  
*2*