

**EXXON** COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

MIDLAND PRODUCTION ORGANIZATION

OPERATIONS INTEGRITY

March 17, 1995

Application for Fluid Injection  
New Mexico "S" State, Well No. 104  
Lea County, New Mexico

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, New Mexico 87504

Exxon Corporation respectfully requests administrative approval of the enclosed application for fluid injection in the subject well. This well has been previously approved administratively for fluid injection into the San Andres formation. We are now seeking approval to inject into the San Andres and Grayburg formation. In support of this request, Form C-108 and its attachments are enclosed. The proof of publication of a legal notice will be forwarded to you as soon as received along with copies of certified mail cards showing proof that the application copies were sent to offset operators and the surface owner.

If you have any questions concerning this application, please call me at 915/688-7871.

Sincerely,

*Marsha Wilson*

Marsha Wilson  
Operations Integrity

/mw

Attachments

c: New Mexico OCD  
District I Office  
Attn: Jerry Sexton  
P. O. Box 1980  
Hobbs, N.M. 88240

Offset Operators, Surface Owner



APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Exxon Corporation  
Address: P. O. Box 1600 Midland TX 79702  
Contact party: Marsha Wilson Phone: 915/688-7871
- 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 and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate 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: Marsha Wilson Title Staff Office Assistant  
Signature: Marsha Wilson Date: March 17, 1995
- \* 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. Log sent with initial completion report dated 4/46.
- Crosssection showing geologic data for proposed injection interval submitted with original\*  
DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.  
\*application dated 3-18-92.

## 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.

## INJECTION WELL DATA SHEET

| Exxon Corporation |                    | NM "S" State |          |       |
|-------------------|--------------------|--------------|----------|-------|
| OPERATOR          | LEASE              |              |          |       |
| 104               | 1980' FEL 660' FSL | 2            | 225      | 37E   |
| WELL NO.          | FOOTAGE LOCATION   | SECTION      | TOWNSHIP | RANGE |

Schematic

See Attached

Tubular DataSurface Casing

Size 10-3/4 " Cemented with 400 sx.  
 TOC Surface feet determined by Used 400% excess  
 Hole size 13-3/8"

Intermediate Casing

Size 7-5/8 " Cemented with 1400 sx.  
 TOC Surface feet determined by \_\_\_\_\_  
 Hole size 9-7/8"

Long string

Size 5-1/2 " Cemented with 500 sx.  
 TOC 1025 feet determined by temp survey  
 Hole size 6-3/4"  
 Total depth 5195'

Injection interval

3650 feet to 4220 feet  
 (perforated or open-hole, indicate which)

Tubing size 2-3/8 lined with cement lined set in a  
 (material)  
Baker TSN or Lockset packer at 3830 feet.  
 (brand and model)  
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres and Grayburg
- Name of Field or Pool (if applicable) Eunice San Andres (South) Penrose-Skelly (Grayburg)
- Is this a new well drilled for injection? ☐ Yes ☒ No  
 If no, for what purpose was the well originally drilled? Oil production in the San Angelo formation
- 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) Perfed 5050-5180' and plugged back by setting a CIBP @ 4955' capped w/30' cmt; perfed 3890-4220' and plugged by setting CIBP @ 4020' w/10' cmt cap, set add'l CIBP @ 3880' w/40' cmt cap; perfed 3660-3808'
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
Underlying - Glorieta @ 4985 (Paddock pool)  
Overlying - Queen not productive

**SUPPLEMENT TO APPLICATION FOR AUTHORIZATION TO INJECT  
NEW MEXICO "S" STATE #104  
API #30-025-09954**

- V. Map is attached.
- VI. Attached are wellbore sketches and tabular data on wells within the area of review.
- VII. Proposed Operations
1. Average daily rate - 200 BPD  
Maximum daily rate - 700 BPD  
Volume of fluids to be injected - 400,000 Bbls
  2. System is open.
  3. Average injection pressure - 200 psig  
Maximum injection pressure - 775 psig
  4. The source of water that will be disposed of is from the Blinebry, Drinkard, Tubb, Abo, and Granite Wash pools. The water is being produced from wells in the Exxon operated New Mexico "S" State lease, located in Section 2, T-22-S, R-37-E. This salt water is already being disposed into the San Andres formation through a commercial well; therefore, there should be no compatibility problems. Additionally, water is trucked from the Exxon-operated Paddock Unit, Hardison, S State, V State, Penrose, G State, and Eumont Gas Com #1 leases.
  5. NA
- VIII. The proposed interval for injection (3650-4750) in the New Mexico "S" State #104 is a porous and permeable zone within the San Andres & Grayburg dolomite and limestone.

|                       |               |                                                        |
|-----------------------|---------------|--------------------------------------------------------|
|                       | Top           | Base                                                   |
| Grayburg              | 3650 (SS-288) | 3825 (SS-463)<br>(top of San Andres)<br>175' thickness |
| San Andres            | 3825 (SS-463) | 4985 (SS-1623)<br>(top of Glorieta)<br>1160' thickness |
| Total Thickness 1335' |               |                                                        |

The San Andres interval is stratigraphically equivalent to existing injection in the Warren Petroleum, Eunice Plant #161 (Sec. 3/T22S/R37E), the Agua, #C-2 State SWD (Sec. 2/T22S/R37E) and the Exxon New Mexico "S" State WS #4 (Sec. 2/T22S/R37E). Injected fluids will be confined by impermeable limestones and anhydrite that occur at the base of the overlying Queen formation and at the base of the San Andres formation. No updip pathways or open faults are known to exist that would provide a connection with fresh water intervals near the surface. (cross section attached)

Fresh water in this area occurs in formations above the Salado salt and anhydrite. The top of the anhydrite/salt at this location is approximately 2350'. This unit also serves as an effective barrier between injected fluids and fresh water zones near the surface. No fresh water occurs below the proposed injection zone.

- IX. Proposed stimulation program on Exxon New Mexico S State #104 SWD
  - 1. Add perforations at 3680-3825 and 4220-4750.
  - 2. Acidize perfs with 15% HCL using balls to divert.
  - 3. Clean wellbore and prepare to inject.
- X. Logs sent with initial completion report dated 4/46.
- XI. Chemical analysis on 3 fresh water wells within one mile of the proposed disposal well are included.
- XII. *There are no indications of open faults or other hydrological connections between the proposed disposal interval and the shallower fresh water zones.*
- XIII. A signed statement of mailing of notice is attached, along with proof of publication.

RESULT OF WATER ANALYSES

TO: Ms. Trisha Plemons LABORATORY NO. 39287  
P. O. Box 3116, Midland, TX 79701 SAMPLE RECEIVED 3-16-92  
RESULTS REPORTED 3-17-92

COMPANY Exxon Company, U.S.A. LEASE New Mexico "S"  
FIELD OR POOL BDT  
SECTION      BLOCK      SURVEY      COUNTY Lea STATE NM  
SOURCE OF SAMPLE AND DATE TAKEN:

- NO. 1 Raw water - taken @ windmill (100 yds S. of Chevron's Rollon Brunson Letter "B" Unit #6.  
NO. 2 Raw water - taken @ windmill (200 yds W. of Texaco's Baker "B" Battery #1).  
NO. 3 Raw water - taken from water supply well (50 yds N. of John Hendrix Corp. Cossator "L" #2).  
NO. 4

REMARKS: Samples taken by Tom Elrod, Martin Water Laboratories, Inc. 3-16-92

| CHEMICAL AND PHYSICAL PROPERTIES     |        |        |        |       |
|--------------------------------------|--------|--------|--------|-------|
|                                      | NO. 1  | NO. 2  | NO. 3  | NO. 4 |
| Specific Gravity at 60° F.           | 1.0018 | 1.0015 | 1.0026 |       |
| pH When Sampled                      |        |        |        |       |
| pH When Received                     | 7.20   | 7.21   | 7.17   |       |
| Bicarbonate as HCO <sub>3</sub>      | 293    | 281    | 325    |       |
| Supersaturation as CaCO <sub>3</sub> |        |        |        |       |
| Undersaturation as CaCO <sub>3</sub> |        |        |        |       |
| Total Hardness as CaCO <sub>3</sub>  | 152    | 172    | 852    |       |
| Calcium as Ca                        | 29     | 36     | 168    |       |
| Magnesium as Mg                      | 19     | 20     | 105    |       |
| Sodium and/or Potassium              | 205    | 99     | 342    |       |
| Sulfate as SO <sub>4</sub>           | 233    | 88     | 488    |       |
| Chloride as Cl                       | 81     | 47     | 582    |       |
| Iron as Fe                           | 0.04   | 0.04   | 0.07   |       |
| Barium as Ba                         |        |        |        |       |
| Turbidity, Electric                  |        |        |        |       |
| Color as Pt                          |        |        |        |       |
| Total Solids, Calculated             | 860    | 570    | 2,010  |       |
| Temperature °F.                      |        |        |        |       |
| Carbon Dioxide, Calculated           |        |        |        |       |
| Dissolved Oxygen,                    |        |        |        |       |
| Hydrogen Sulfide                     | 0.0    | 0.0    | 0.0    |       |
| Resistivity, ohm-cm at 77° F.        | 9.06   | 14.90  | 3.20   |       |
| Suspended Oil                        |        |        |        |       |
| Filtrable Solids as mg/l             |        |        |        |       |
| Volume Filtered, ml                  |        |        |        |       |
| Nitrate, as N                        | 1.0    | 2.0    | 4.6    |       |

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

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

# WELL CORE SKETCH AND WELL HISTORY

ELEV.: KB 3363' ± 11.4' ABOVE CHF

LEASE & WELL NAME: NEW MEXICO "S" STATE #104  
 FIELD: BLINERY-PRIMARD-TURB COUNTY: Lea ST: N.M.  
 LOCATION: 1980' FEL, 1460 FSL, SEC-2, T-2E-S,  
 R-37 E, 2 MI. SE OF EUNICE, NEW MEXICO  
 DATE: 3-25-1991 BY: MME REV: BY:

## CASING RECORD

### SURFACE CASING

| O.D.    | WT/FT | GRADE | SET AT |
|---------|-------|-------|--------|
| 10 3/4" | 40.5* | 14-40 | 359'   |
| 7 5/8"  | 26.4* | 5-80  | 2824'  |

### PRODUCTION CASING

|        |     |       |       |
|--------|-----|-------|-------|
| 5 1/2" | 14* | 14-40 | 5195' |
|        |     |       |       |
|        |     |       |       |
|        |     |       |       |
|        |     |       |       |
|        |     |       |       |

### TUBING

| NO. JTS. | O.D. | THD. | TYPE | WT. | GDE. | SET |
|----------|------|------|------|-----|------|-----|
|          |      |      |      |     |      |     |

### WELL HISTORY:

4/46 - O'G' - PERF'D THE SAN ANGELO FROM 5115'-5180' w/ 4 JSPF  
 IP = 464 BOPD, GOR 795  
 10/72 - Added PERFS IN SAN ANGELO.  
 PERF 5050' - 5085' w/ 1 JSPF  
 7/73 - Plug BACK SAN ANGELO, RE-COMPLE  
 IN SAN ANGELO; SET CIBP 4955';  
 CAPPED w/ 30' CMT. PERF'D w/ 15 JTS/5  
 3890' - 3905' - 4 SHOTS  
 3912' - 3925' - 4 SHOTS  
 3940' - 3955' - 4 SHOTS  
 3970' - 3985' - 7 SHOTS  
 4042' - 4055' - 4 SHOTS  
 4095' - 4098' - 4 SHOTS  
 4125' - 4220' - 20 SHOTS  
 47 SHOTS TOTAL  
 3/80 - SET CIBP @ 4030' ± DUMPS  
 1 SX (±10') CMT ON TOP  
 8/80 - Plug BACK SAN ANGELO AND  
 RE-COMPLE IN GRAYBURG; SET CIBP  
 @ 3880' ± CAPPED w/ 4 SX (±40')  
 CMT. PERF'D FROM 3660' - 3808' w/  
 36 HOLES. Rm w/ MUD JT. PS. SN. 120  
 JTS TOG. \* THERE MAY BE A TAC  
 IN STRING. \*\*

HOLE SIZE: 13 3/8"

TOC: SURF' USING 2400 TO EXCESS

10 3/4" • 359'  
 CMT. 400 SX

HOLE SIZE: 9 7/8"  
 TOC: SURF'

2 7/8" Cement lined  
 tubing

7 5/8" • 2824'  
 CMT. 1400 SX

HOLE SIZE: 6 3/4"  
 TOC: 1025' BY TS.

SQZD

3660' - 3808' (136 HOLES)

PKR @ 3717'

3890' - 3905' (4 HOLES)

3912' - 3925' (4 HOLES)

3940' - 3955' (4 HOLES)

3970' - 3985' (7 HOLES)

4042' - 4055' (4 HOLES)

4075' - 4090' (4 HOLES)

4125' - 4220' (20 HOLES)

CMT.: 4955' - CIBP

5050' - 5085' w/ 1 JSPF

5115' - 5180' w/ 4 JSPF

5 1/2" • 5195'

CMT. 500 SX

After conversion

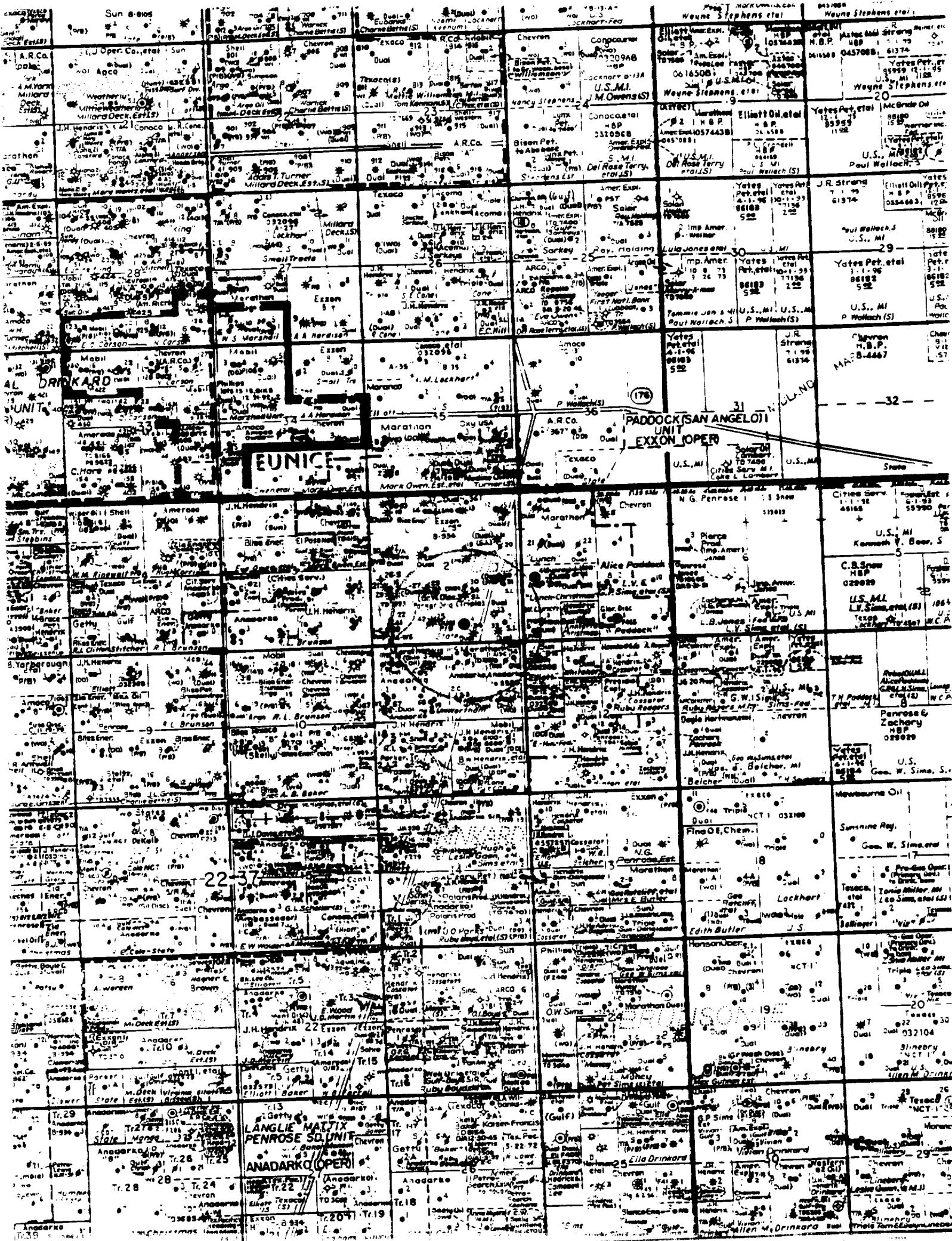
TD: 5195' PBD: ±3840'

ORIG PBD = 5185'

TOC @ ± 3840'

TOC @ ± 4010'

TOC @ ± 4425'



**WELLS WITHIN 1/2 MILE RADIUS OF  
NEW MEXICO 'S' STATE #104  
T-22-S, R-37-E LEA COUNTY**

| WELL NAME        | SECT. # | FOOTAGE           | DATE<br>DRILLED | DEPTH | COMPLETION<br>(PERFS)  | CSG                         | DEPTH               | CMT(SX)            |
|------------------|---------|-------------------|-----------------|-------|------------------------|-----------------------------|---------------------|--------------------|
| Walter Lynch #2  | 1       | 1980 FS, 660 FW   | 10-13-45        | 5220  | 5100-5160              | 13-3/8"<br>9-5/8"<br>7"     | 337<br>2854<br>5170 | 350<br>2100<br>350 |
| Walter Lynch #3  | 1       | 660 FS, 660 FW    | 11-15-45        | 5220  | 5120-5180              | 13-3/8"<br>9-5/8"<br>7"     | 336<br>2856         | 250                |
| Walter Lynch #5  | 1       | 330 FSL, 330 FWL  | 7/28/77         | 7897  | 7338-66                | 8-5/8"<br>5-1/2"            | 1175<br>7897        | 350<br>1230        |
| Elliott B-12 #1  | 12      | 660 FN, 660 FW    | 4-3-85          | 5151  | 4124-4220              | 13-3/8"<br>7"               | 169<br>5151         | 150<br>450         |
| Elliott B-12 #2  | 12      | 567 FN, 467 FW    | 12-12-75        | 7425  | 6221-7001<br>7326-7388 | 9-5/8"<br>7"                | 1150<br>7425        | 550<br>1250        |
| Lou Wortham #5   | 11      | 990 FN, 1650 FW   | 12-20-70        | 4750  | 4116-4123              | 9-5/8"<br>7"                | 366<br>4750         | 200<br>450         |
| Lou Wortham #3   | 11      | 660 FN, 1800 FW   | 11-26-61        | 3950  | 3742-3784              | 8 5/8"<br>5 1/2"            | 290<br>3950         | 225<br>350         |
| Anadarko #5      | 11      | 660 FN, 1980 FW   | 7-10-46         | 5165  | 5087-5165              | 13-3/8"<br>8-5/8"<br>5-1/2" | 310<br>2798<br>5087 | 300<br>3000<br>500 |
| Lou Wortham #13  | 11      | 330 FN, 2080 FW   | 7-18-75         | 7390  | 6244-6339<br>7115-7211 | 8-5/8"<br>4-1/2"            | 1255<br>7390        | 675<br>1300        |
| Lou Wortham #1-C | 11      | 330 FN, 2310 FE   | 2-13-70         | 4700  | 3870-4186<br>4023-4186 | 9-5/8"<br>7"                | 354<br>4700         | 225<br>530         |
| Lou Wortham #1-B | 11      | 660 FN, 1980 FE   | 4-26-46         | 5150  | 5090-5150              | 13-3/8"<br>8-5/8"<br>5-1/2" | 304<br>2794<br>5090 | 850<br>4000<br>500 |
| Anadarko #13     | 11      | 330 FN, 1980 FE   | 12-2-78         | 7580  | 6344-6411              | 9-5/8"<br>7"                | 1288<br>7580        | 650<br>2000        |
| Lou Wortham #3-C | 11      | 660 FN, 990 FE    | 10-15-83        | 4320  | 3830-4320              | 8-5/8"<br>5-1/2"            | 302<br>3830         | 150<br>250         |
| Lou Wortham #2-C | 11      | 1878 FN, 2407 FE  | 5-11-70         | 4700  | 3866-4238              | 9-5/8"<br>7"                | 355<br>4700         | 250<br>675         |
| Lou Wortham #1-A | 11      | 660 FN, 660 FE    | 1-18-46         | 5147  | 5095-5147              | 13-3/8"<br>8-5/8"<br>5-1/2" | 300<br>2807<br>5095 | 250<br>300         |
| Lou Wortham #14  | 11      | 520 FN, 330 FE    | 4-22-76         | 7540  | 7289-7515              | 9-5/8"<br>7"                | 1265<br>7540        | 650<br>2680        |
| Lou Wortham #19  | 11      | 680 FN, 880 FW    | 2-4-86          | 7400  | 6549-7024              | 9-5/8"<br>7"                | 1200<br>7400        | 700<br>1995        |
| Lou Wortham #1   | 11      | 660 FNL, 2310 FEL | 6-27-66         | 3820  |                        | 8-5/8"<br>5-1/2"            | 301<br>3820         | 200<br>250         |

**NOTE: See attached wellbore sketches for wells located in Section 2**

DATE : 3/5/86

WELLCORE  
SKETCH

LEAS.- WELL : Paddock UNIT #24

FIELD: Paddock

FIELD SUPT: EB TAYLOR

TUBING: SIZE \_\_\_\_\_ GRADE \_\_\_\_\_  
STS \_\_\_\_\_ SET \_\_\_\_\_

BOTTOM HOLE ARRANGEMENT

DF  
Elev RKO 2370, 13' above GL

Well History

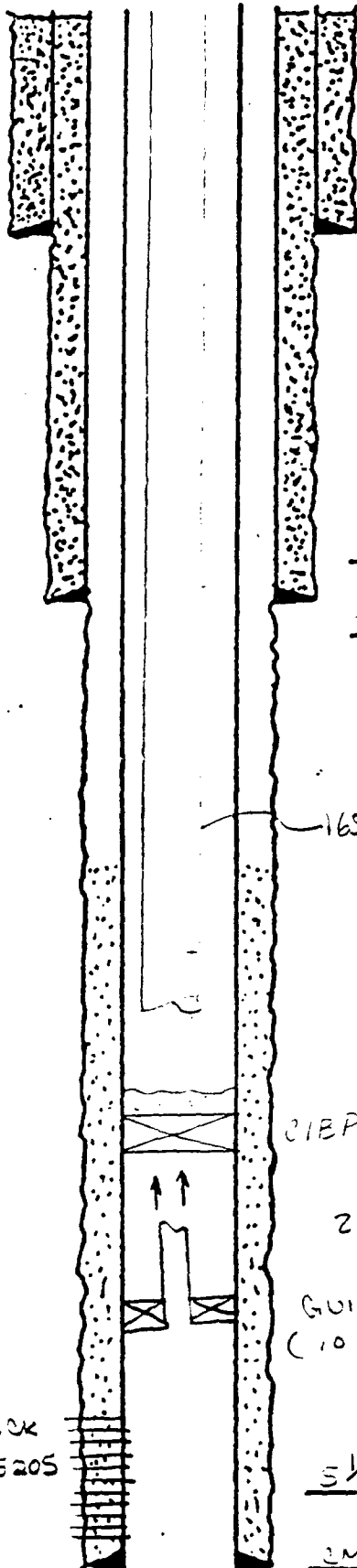
4/46 PERF 5070-5205  
AC W/ 4000 GAL 15% HCL

9/59 AC W/ 10,000 GAL 15% HCL

1/68 PERF 5055-5070  
AC W/ 3000 GAL 15% HCL

3/86 St CIBP 4955' up w/ 25' vent

PTH 10/1/83 @ 238' HCL



0 3/4" @ 366'

CIP 3MT TO SURF

7 7/8" @ 2788'

TOL 440 BY TS

165' is 2 3/8" HCL

CIBP 4955' up w/ 25' vent

2 3/8" TBG (PC)

GUIDERSON HOOKWALL PKR @ 5016  
(10 PT TENSION)

5 1/2" 14# @ 5209'

3MT W/ 300 SX TOL 2980 (TS)

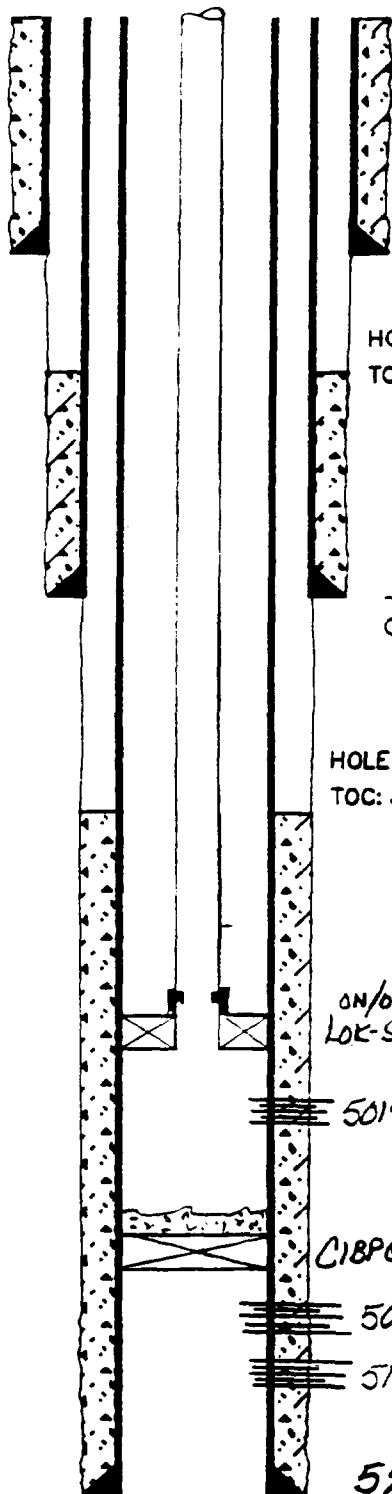
Paddock  
5055-5205

# WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3364 - 10 ABOVE 5 1/2" CHF

LEASE & WELL NAME: Paddock Unit #31  
 FIELD: Paddock COUNTY: LEA ST.: NM  
 LOCATION: 1980' EBL, 660' EEL, SEC 2, T22S, R37E

DATE: 6-18-91 BY: R3 Rose REV.: \_\_\_\_\_ BY: \_\_\_\_\_



HOLE SIZE: 10 3/4"  
 TOC: \_\_\_\_\_

10 3/4" - 342  
 CMT 300 SX

HOLE SIZE: 7 7/8"  
 TOC: 1200 (TS)

7 7/8" - 2809  
 CMT 2050 SX

HOLE SIZE: 6 7/8"  
 TOC: 3440 (TS)

ON/OFF TOOL W/ PROFILE  
 LOK-SET PRR @ 4990'

5014'-32' (2SPF)

C18PC @ 5086' w/ 10' CMT

5090'-5175' (4SPF)

5195'-5212' (4SPF)

5 1/2" - 5218  
 CMT 400 SX

## CASING RECORD

### SURFACE CASING

| O.D.           | WT/FT       | GRADE       | SET AT           |
|----------------|-------------|-------------|------------------|
| <u>10 3/4"</u> | <u>40.5</u> | <u>H-40</u> | <u>342</u>       |
| <u>7 7/8"</u>  | <u>26.4</u> | <u>S-80</u> | <u>8-2430</u>    |
|                | <u>24</u>   | <u>H-40</u> | <u>2430-2809</u> |

### PRODUCTION CASING

|               |             |             |                  |
|---------------|-------------|-------------|------------------|
| <u>5 1/2"</u> | <u>14</u>   | <u>J-55</u> | <u>0-4693</u>    |
| <u>5 1/2"</u> | <u>15.5</u> | <u>J-55</u> | <u>4693-5218</u> |

## TUBING

| NO. JTS. | O.D.          | THD.       | TYPE       | WT.        | GDE.        | SET AT      |
|----------|---------------|------------|------------|------------|-------------|-------------|
|          | <u>2 3/8"</u> | <u>8RD</u> | <u>EUE</u> | <u>4.7</u> | <u>J-55</u> | <u>4990</u> |

## WELL HISTORY:

11/45 DEP PERF 5090'-5175' (4SPF) AND 5195'-5212' (4SPF). ACIDIZE EACH w/ 2000 GAL 20% HCL.

1/53 ACIDIZE 5090'-5212' w/ 1500 GAL GEL AND 10000 GAL UNISOL ACID

10/59 ACIDIZE 5090'-5212' w/ 10000 GAL ACID USING BALL SEALERS

AFTER WORKOVER SKETCH

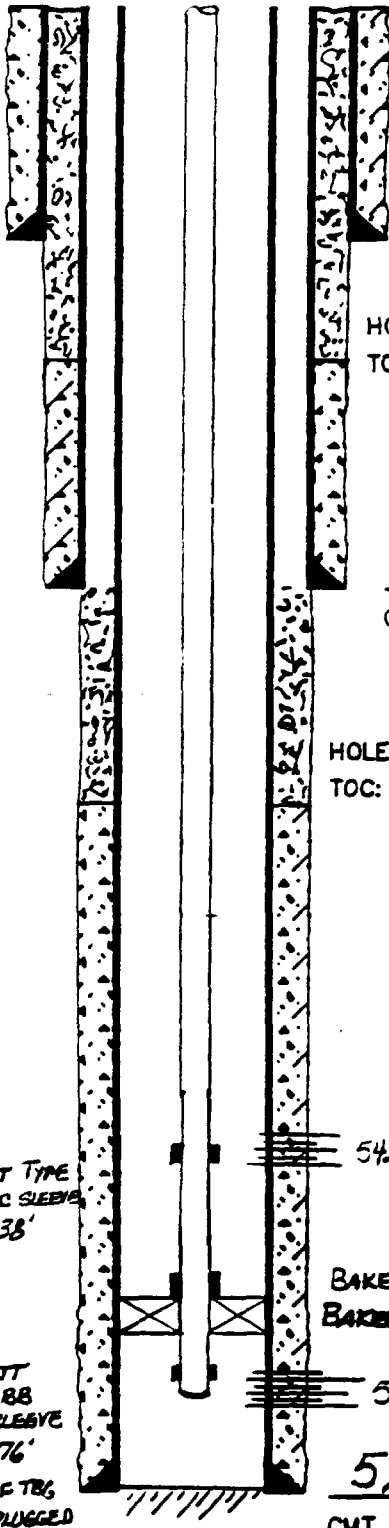
TD: 5220 PBD: 5214

# WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3362 ' 12 ' ABOVE RHF

LEASE & WELL NAME: NEW MEXICO 'S' STATE #23  
 FIELD: B-D-T COUNTY: LEA ST.: NM  
 LOCATION: 990' FEASL, SEC 2, T22S, R37E

DATE: 5-31-91 BY: RSB REV.: \_\_\_\_\_ BY: \_\_\_\_\_



HOLE SIZE: 13 3/4  
 TOC: SURE CIRC 70SX

10 3/4 - 347  
 CMT 300 SX

HOLE SIZE: 9 7/8  
 TOC: SURE CIRC 60SX

7 7/8 - 2595  
 CMT 1050 SX

HOLE SIZE: 6 3/4  
 TOC: 2600 (TS)

5428'-5545' (2SPF) BLINERBY

BAKER RECEPTACLE  
 BAKER D-5 PKR 5975

5996'-6185' (2SPF) TUBB

5 1/2 - 6200  
 CMT 400 SX

## CASING RECORD

### SURFACE CASING

| O.D.          | WT/FT       | GRADE       | SET AT      |
|---------------|-------------|-------------|-------------|
| <u>10 3/4</u> | <u>40.5</u> | <u>H-40</u> | <u>347</u>  |
| <u>7 7/8</u>  | <u>24</u>   | <u>H-40</u> | <u>2595</u> |

### PRODUCTION CASING

|              |             |             |                  |
|--------------|-------------|-------------|------------------|
| <u>5 1/2</u> | <u>14</u>   | <u>J-55</u> | <u>0-552</u>     |
| <u>5 1/2</u> | <u>15.5</u> | <u>J-55</u> | <u>5528-6200</u> |
|              |             |             |                  |
|              |             |             |                  |
|              |             |             |                  |

### TUBING

| NO. JTS.   | O.D.         | THD.       | TYPE       | WT.        | GDE.        | SET A       |
|------------|--------------|------------|------------|------------|-------------|-------------|
| <u>196</u> | <u>2 3/8</u> | <u>REG</u> | <u>EUE</u> | <u>4.7</u> | <u>J-55</u> | <u>6110</u> |

### WELL HISTORY:

4/55 DEC PERF 5996'-6011' (2SPF) 4023'-48' (2SPF) 4040'-118'  
6128'-46' (2SPF) 6154'-85' (2SPF) ACIDIZING  
3000 GAL & 9000 GAL 15%  
PERF BLINERBY 5428'-70' 5490'-5508'  
5515'-45' (2SPF) ACIDIZING W/ 500 GALS  
MUD ACID AND 3000 GALS 15%

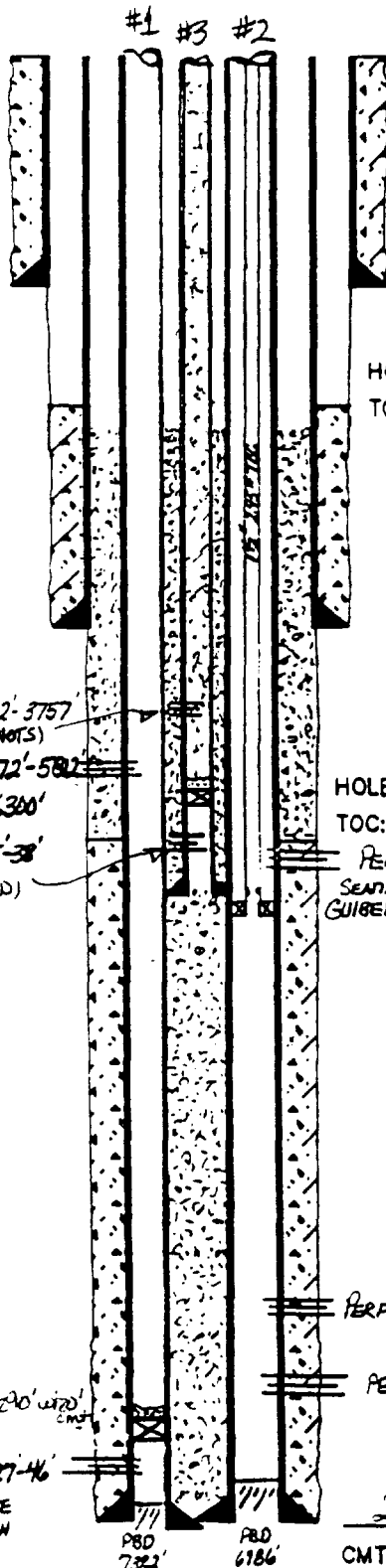
TD: 6200 PBD: 6199

# WELL ORE SKETCH AND WEL HISTORY

ELEV.: KB 3367', 11' ABOVE GL

LEASE & WELL NAME: NEW MEXICO'S STATE 24  
 FIELD: B-D-T COUNTY: LEA ST.: N  
 LOCATION: 1650' FSL, 1980' FEL SEC 2 T22S R37E

DATE: 8-8-90 BY: REB REV.: \_\_\_\_\_ BY: \_\_\_\_\_



HOLE SIZE: 17 1/2"  
 TOC: 395' CMC

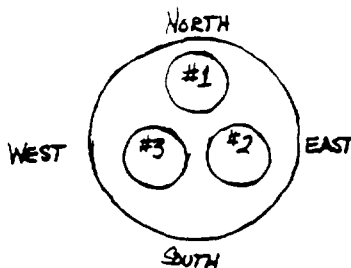
13 3/8" • 295'  
 CMT 335' SX

HOLE SIZE: 12 1/4"  
 TOC: 1600' (TS)

9 5/8" • 2645'  
 CMT 600' SX

PERF 3672'-3757' (8 SHOTS)  
 PERFS 5672'-5812' (Blinary)  
 CIBP @ 6300'  
 PERF 6425'-38' (DEWKARD)

HOLE SIZE: 8 3/4"  
 TOC: 1875' (TS)  
 PERF 6257'-6428' DEWKARD  
 SEATING NAME  
 GIBBERSON KV T8G PKR @ 6512'



PERF 6749'-6873' (ABO)  
 PERF 6880-86' (ABO)

2 7/8" • VARIOUS'  
 CMT 1670' SX

CIBP @ 7200' w/ 70' CMT  
 PERF 7327'-46'  
 GRANITE WASH

TD: 7411' PBD: \_\_\_\_\_

## CASING RECORD

### SURFACE CASING

| O.D.   | WT/FT | GRADE | SET A' |
|--------|-------|-------|--------|
| 13 3/8 | 48    | H-40  | 295'   |
| 9 5/8  | 32.3  | H-40  | 2645'  |

### PRODUCTION CASING

| #  | O.D.  | WT/FT | GRADE | SET A' |
|----|-------|-------|-------|--------|
| #1 | 2 7/8 | 6.4   | J-55  | 7405'  |
| #2 | 2 7/8 | 6.4   | J-55  | 7404'  |
| #3 | 2 7/8 | 6.4   | J-55  | 6506'  |

### TUBING

| NO. | JTS. | O.D.  | THD. | TYPE | WT.  | GDE. | SE |
|-----|------|-------|------|------|------|------|----|
| #2  | 203  | 1 1/2 | 10RD |      | 2.45 | N-80 | 6' |

### WELL HISTORY:

5/63 PERF DEWKARD 6425'-6438', PERF ABO 6878'-6889'  
 PERF GRANITE WASH 7327'-7346'. SAND FRAC GRIND  
 WASH W/ 4000#. ACIDIZE ABO W/ 1000 GALS. S2  
 ABO W/ 500X. REPERF 6880-86'. ACIDIZE ABO.  
 2000 GAL. S2. REPERF 6880-86'. ACIDIZE W/ 300X  
 ACIDIZE DEWKARD W/ 2250 GAL. FRAC W/ 10000#  
 SET CIBP @ 6300'. PERF GRANITE WASH 7327'-3757'  
 HOLES). SAND FRAC W/ 40000#.

10/63 SAND FRAC ABO W/ 25000#.

12/67 SAND FRAC GRANITE W/ 30000#.

3/75 PERF ABO 6749'-6873'. SAND FRAC. PERF 6257'-  
 SAND FRAC. RAN TOG PER.

12/91 String #3 P.A.H.  
 CMT to surface

String #1 Set CIBP @ 7200 w/ 70' CMT  
 PERF 5672-5812' (Blinary)  
 Frac w/ 25 bbl 15% HCl w/ N.F.  
 Stuck swap rods @ 5981'

STRING #3 HAS BEEN SE SURF 4/68

#1 ROD STRING: 2" x 1 1/4" x 12' 3/4" RHTC, 210 - 3/4" x 25' RODS, 7 -  
 25' RODS, 22' OF 7/8" SUBS, 1 1/2" x 1 1/4" P.D. SUB. K1.  
 1-2" x 3/4" SUB ON TOP OF PUMP

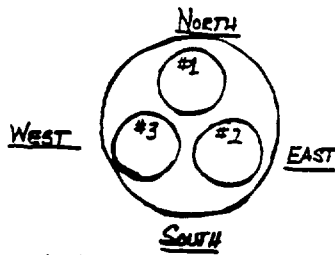
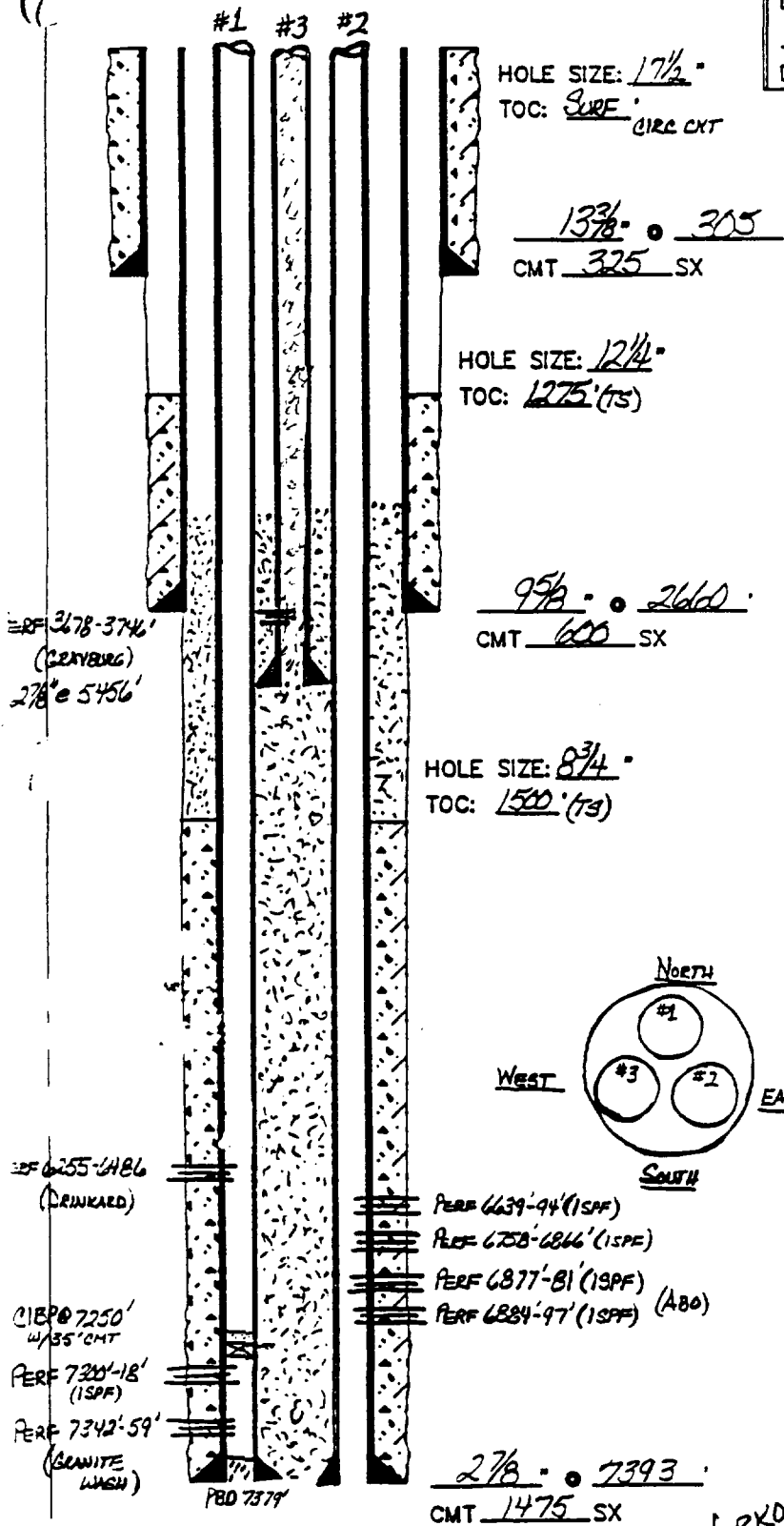
AFTER WORKOVER  
 SKETCH

# WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3368 ". 11 ' ABOVE GL

LEASE & WELL NAME: NEW MEXICO 'B' STATE #25  
 FIELD: B-D-T COUNTY: LEA ST.: NM  
 LOCATION: 810' FSL, 2130' FWL, SEC 2, T22S, R37E

DATE: 8-1-90 BY: RSB REV.: \_\_\_\_\_ BY: \_\_\_\_\_



## CASING RECORD

### SURFACE CASING

| O.D.          | WT/FT       | GRADE       | SET AT      |
|---------------|-------------|-------------|-------------|
| <u>13 3/8</u> | <u>48</u>   | <u>H-40</u> | <u>305</u>  |
| <u>9 5/8</u>  | <u>32.3</u> | <u>H-40</u> | <u>2660</u> |

### PRODUCTION CASING

| #2 | <u>2 7/8</u> | <u>6.4</u> | <u>J-55 NUIE</u> | <u>7393</u> |
|----|--------------|------------|------------------|-------------|
| #3 | <u>2 7/8</u> | <u>6.4</u> | <u>J-55 NUIE</u> | <u>5456</u> |
| #1 | <u>2 7/8</u> | <u>6.4</u> | <u>J-55 NUIE</u> | <u>7393</u> |

### TUBING

| NO. JTS. | O.D.         | THD.        | TYPE | WT.         | GDE. | SET        |
|----------|--------------|-------------|------|-------------|------|------------|
| #3       | <u>1 1/2</u> | <u>1020</u> |      | <u>1.87</u> |      | <u>381</u> |

### WELL HISTORY:

7/63 DEC PERE GRAYING IN STRING #3 3678-374  
PERE ABO IN STRING #2 6877-81, 6884-97, PERE  
GRANITE WASH 7300-18' & 7342-59'

2/76 SET CIPP IN STRING #1 @ 7250' CAPPED W/ 35' C.  
PERE STRING #2 6758-6866'. PERE STRING #1  
FROM 6255-6486' (532005) PERE STRING #2  
6639-94'

12/91 String #3 Pumped 26 bbls  
current - cmt @ surface  
P.A.I.D

AFTER WORKOVER  
 SKETCH

TD: 7395 ' PBD: \_\_\_\_\_

# WELLBORE SKETCH AND WELL HISTORY

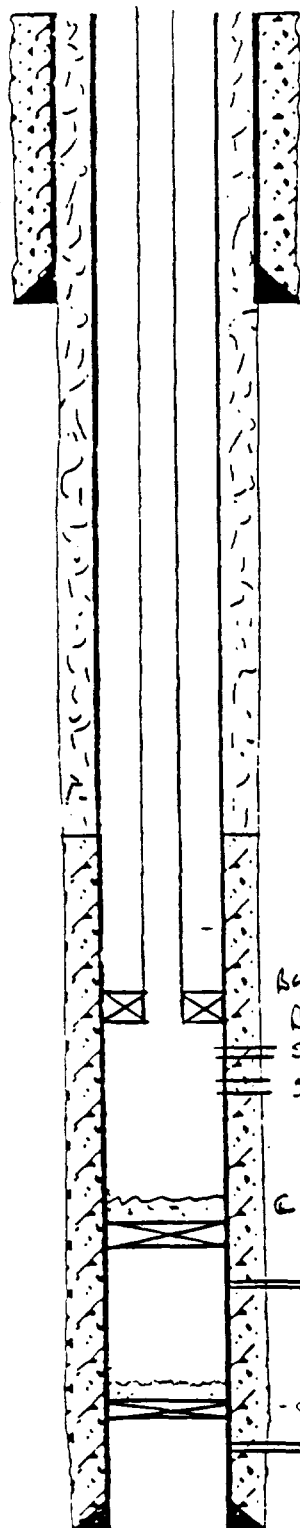
KB 3383 " 15.5' ABOVE SL

LEASE & WELL NAME: N.M. "S" ST. #28

FIELD: BDT COUNTY: LEA ST.: NM

LOCATION: SE/NW SEC. 2, T22S, R37E

DATE: 11/22/89 BY: RWG REV.: 4/17/90 BY: GWM



HOLE SIZE: 13 3/4"  
TOC: SURF

10 3/4" - 1120'  
CMT 620 SX

After

HOLE SIZE: 8 3/4"  
TOC: SURF

Baker loc. set @ 5615'  
Blindbry  
5708-5752 (20)  
5798-5816 (10)

CIBP @ 6158' 20' cmt on top

6267-6447' (DRINKARD)

CIBP @ 6740' 20' cmt on top

6768-6916' (ABO)

7 - 7192'  
CMT 1550 SX

## CASING RECORD

### SURFACE CASING

| O.D.    | WT/FT      | GRADE  | SET AT |
|---------|------------|--------|--------|
| 10 3/4" | 40.5/41.85 | K-55/A | 1120'  |

### PRODUCTION CASING

| O.D. | WT/FT | GRADE | SET AT |
|------|-------|-------|--------|
| 7"   | 23/26 | N-80  | 7190'  |

### TUBING

| NO. JTS. | O.D.   | THO. | TYPE | WT. | GDE. | SET AT |
|----------|--------|------|------|-----|------|--------|
| 184      | 2 1/8" | 3rd  | CUE  | 4.7 |      | 3700'  |

### WELL HISTORY:

5/76 DEC. PERF 6768-916' (47) TRT W/  
12000 GAL K-1 + 13000 GAL 20% HCL  
IP 221 BO 401 MCF 218W  
PERF 6267-447' (51) TRT W/ 17500  
GAL K-1 + 19,500 GAL 20% HCL  
IP 2400 MCF

7190 Set CIBP @ 6740' capped w/ 20' cmt  
Set CIBP @ 6158' capped w/ 20' cmt  
Perf 5708-5752 (20' f), 5798-5816  
PPI Acid job w/ 37 bbl acid  
Frac 28735 gals. Fluid, 6035/# 20/40 sand

ILLEGIBLE

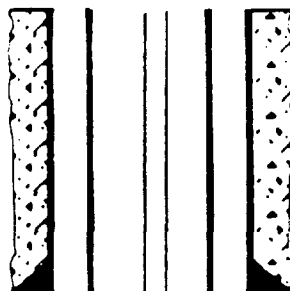
TD: 7200' PBD: 7067'

# WELLBORE SKETCH AND WELL HISTORY

KB 3370 " 16 ' ABOVE GL

LEASE & WELL NAME: NEW MEXICO "S" STATE #30  
 FIELD: B-D-T COUNTY: LEA ST.: NM  
 LOCATION: 2160'ESL, 690'EEI, SEC.2, TWP.22-S,  
R.37E

DATE: 1-11-91 BY: RJB REV.: \_\_\_\_\_ BY: \_\_\_\_\_



HOLE SIZE: 13 3/4 "  
 TOC: SURF CIRC 100SX

10 3/4 " • 1144  
 CMT 670 SX

HOLE SIZE: 8 3/4 "  
 TOC: 1230 (73)

DV TOOL @  
4084 '  
 (1400SX)  
 CIRC 10 BBL CMT  
 OUT DV FROM STG  
 1 JOB.

PERFS 6270'-6320' (SQZ'D)  
 (DRINKARD)

SEATING NIPPLE  
 LOK-SET PKR @ 6500' w/ON-OFF TOOL

6538'-6715' (18 HOLES)  
 (ABO)

6784'-6885' (18 HOLES)  
 (ABO)

6945'-7108' (18 HOLES)  
 (ABO)

CIBP @ 7140' w/10' CMT.

7 • 7180  
 CMT 700 SX

2 6 1/4" HOLE  
 (GRANITE WASH)

## CASING RECORD

### SURFACE CASING

| O.D.   | WT/FT | GRADE | SET AT |
|--------|-------|-------|--------|
| 10 3/4 | 51    | K-55  | 1144   |

### PRODUCTION CASING

|   |    |      |             |
|---|----|------|-------------|
| 7 | 26 | N-80 | 7180'-6444' |
| 7 | 26 | K-55 | 6440'-4444' |
| 7 | 23 | K-55 | 4440'-1517' |
| 7 | 23 | K-55 | 1517'-40'   |
| 7 | 26 | K-55 | 40'-SURF    |

### TUBING

| NO. JTS. | O.D.  | THD. | TYPE | WT. | GDE. | SET |
|----------|-------|------|------|-----|------|-----|
|          | 2 3/8 |      |      |     |      |     |

### WELL HISTORY:

10/76 DEC AS DUAL COMPLETION.  
 ACIDIZE GRANITE WASH w/7000 GALS  
 GELLED 15% HCL, PERE DRINKARD  
 6270-79, 6291-96, 6305-08, 6312-20  
 (ISPE) ACIDIZE w/100 GAL 20% HCL  
 FRAC w/7500 GAL K-1 PAD, 8500 GAL 20%  
 HCL. RUN W/DR PKR HIT GRANITE  
 WASH ON PUMP.

7/91 Set CIBP @ 7140' cap w/10' cmt.  
 SQZ 6270-6320', DIXF 6538-7108' A/B  
 Hcd 7 w 4900 gal - SXF

**ILLEGIBLE**

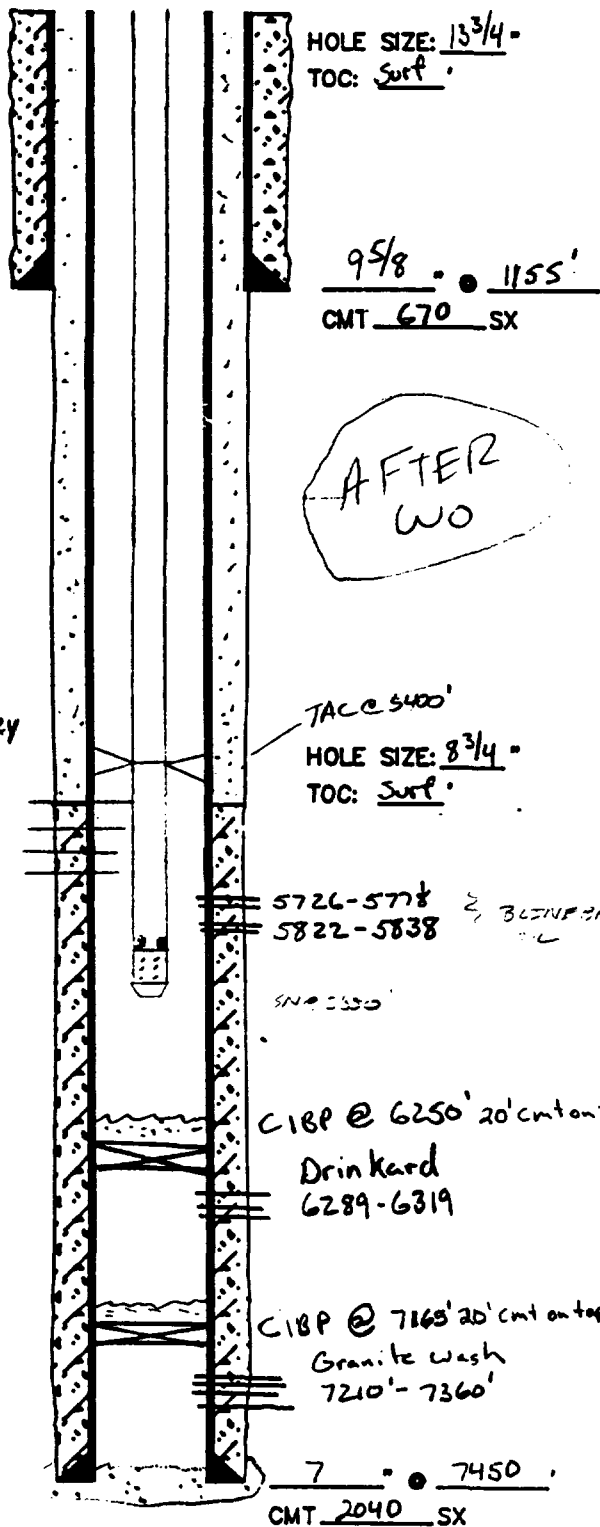
AFTER WORKOVER  
 SKETCH

TD: 7610 ' PBD: 7610 '

# WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB 3375' 16' ABOVE GL

LEASE & WELL NAME: New Mexico "S" State #32  
 FIELD: BDT COUNTY: Lea ST.: N.M.  
 LOCATION: Unit 6 Sec 2 TWP-22S R6E 37E  
 DATE: 4/18/90 BY: hym REV.: 1/AS BY: 6/3/94



HOLE SIZE: 13 3/4\"  
 TOC: Surf.

9 5/8\" • 1155'  
 CMT 670 SX

AFTER  
 WO

TAC @ 5400'  
 HOLE SIZE: 8 3/4\"  
 TOC: Surf.

5726-5778  
 5822-5838  
 5900-5950

CIBP @ 6250' 20' cmt on top  
 Drinkard  
 6289-6319

CIBP @ 7165' 20' cmt on top  
 Granite Wash  
 7210'-7360'

7\" • 7450'  
 CMT 2040 SX

7" 29# 075 KB-83'  
 23# K55 83'-1707'  
 20# L55 1707'-2957'  
 23# L55 2957'-7433'

TD: 7450' PBD: 7407' 26# K55 4438'-6237'  
 29# 075 6232'-7450'

## CASING RECORD

### SURFACE CASING

| O.D.   | WT/FT | GRADE    | SET AT |
|--------|-------|----------|--------|
| 9 5/8" | 36 #  | K-55 LTC | 1155'  |

### PRODUCTION CASING

|                         |                |      |       |
|-------------------------|----------------|------|-------|
| 7"                      | 20, 23, 26, 29 | K-55 | 7450' |
| SEE CSG. SHOE FOR TALLY |                |      |       |

### TUBING

| NO. JTS. | O.D.   | THD. | TYPE | WT. | GDE. | SET AT |
|----------|--------|------|------|-----|------|--------|
| 184      | 2 7/8" | 8rd  | EUE  | 4.7 |      | 5700'  |

### WELL HISTORY:

12/76 DFC Completed in Drinkard i 6W  
 Perf Granite Wash 7210 - 7360'  
 Acid w/ 15% HCL, sand oil frac 7279-7360'  
 w/ 30,000 gal gelled oil, 34000 # 20-40 sand  
 Perf Drinkard 6289 - 6319, Acid frac  
 w/ 25000 gal K-1 pad i 20% Hcl  
 8/90 Set CIBP @ 7165 w/ 20' cmt  
 Set CIBP @ 6250 w/ 20' cmt

Perf Blinebry 5726 - 5838' 5000L 15% HCL  
 Frac 738 bbls slurry, 55000 # 20/40 sand  
 PWOP 120 Bbls BW 200 KCF

6/94 Perf 5451-5643  
 Frac w/ 169K # sd 1PF25 bopd/736 KCF

ILLEGIBLE

## WELLBORE SKETCH AND WELL HISTORY

ELEV: KB 3367 " \_\_\_\_\_ ' ABOVE \_\_\_\_\_

LEASE & WELL NAME: NM S Stati #33

FIELD: B-D-T COUNTY: Lea ST: NM

LOCATION: 380' FSL & 860' FFL Sec 2

T-22-S, R-37-E

DATE: 1/20/95 BY: TAP REV.: \_\_\_\_\_ BY: \_\_\_\_\_

## CASING RECORD

## SURFACE CASING

| O.D.    | WT/FT       | GRADE | SET AT |
|---------|-------------|-------|--------|
| 10 3/4" | 40.5 ± 41.8 | K 55  | 1132   |

## PRODUCTION CASING

|    |         |     |      |
|----|---------|-----|------|
| 74 | 23 & 26 | 155 | 7680 |
|----|---------|-----|------|

## TUBING

| NO. JTS. | O.D.   | THD. | TYPE | WT. | GDE. | SET AT |
|----------|--------|------|------|-----|------|--------|
| 174      | 2 3/8" |      |      |     |      |        |

**WELL HISTORY:**

76-DIC GW: Drinkard dual

77 - Sand frac GW

6/93 - Set CIBP @ 7050' cap w/ 35' cmr  
 Perf 566B-578B, frac 66 K<sup>th</sup> sd <sup>screened</sup> out  
 Perf 5403-5557, frac 141 K<sup>th</sup> sd  
 IP 147 bopd / 1114 Kcf/d

HOLE SIZE: \_\_\_\_\_"

TOC: Surface

10<sup>3/4</sup> " @ 1132

CMT 670 SX  
Circ.

HOLE SIZE: 8 3/4

TOC: Surface

TAC @ 5382'

Blinebry

6403-5557

5668-5788'

RBP @ 5964'

6237-6276' Drinkarel

CIBP @ 7050'

7106-7172 Detrital

## Granite Wash

7276-7339

7479-7520

7. 7620

CMT 1240 SX

TD: 7683 PBD: 764D

No: 4/19/90

Lease, Well: NEW MEXICO "S" STATE # 34

Elev. 3351',

above

H2S 0 PPM

Field: BDT

Field Supt: McBE

Tubing Size 2 3/8" Grade

Bottom Hole Arrangement

AFTER  
WELLBORE  
CONFIGURATION

10 3/4" @ 1138' Well history:

11/76 D+C DUAL COMP.

Drinkard perfed, frac w/ 12,000

gal. K-1 + 13,000 gals 20% HCL.

Acidized w/ 2000 gals 7 1/2% HCL

IP = 1105 MCF/DAY

ABO perfed, frac w/ 15,000 gal. K-1

+ 16,000 gals. 20% HCL

IP = 12 BLO, 798 MCF/DAY

Granite Wash was tested and  
plugged back.

11/90 SPZ Drinkard Perfs 6216-6266

w/ 75 SXS Perf 6460-6992' ABO

Acid z w/ 30000 gals SXS

ILLEGIBLE

Squeezed

6216'-6263'

DRINKARD

Packer @ +/- 6435'

6460-6992

WANTZ ABO

CIBP @ 7500' PBD @ 7465'

7568'-7750'

GRANITE WASH

7" casing @ 7847'

TD @ 7847'

# PLUS 1 ADDITION

WYOMING COUNTY, N.M. - Oklahoma District

WATERMETER WATCH

(Exceeds NM's 'SL #6)

Circ.  
by Dr. 12 p.

12 3/4" Hole

AFE 31929

Date 11-17-78

Field/Pool Name:

Padlock (5 in. L. 1 in. W.)

Lease Name/Well No.:

Padlock Unit # 2

Field Supt.

Cost \$

10 3/4" - 40.5 #

csg.

Tbg.

Size

2 3/8

Grade

450

set @ 2244'

w/ 5000

sxs.

No.

Jnts.

171

set

at

5102

30sxs @ 1200'

(Circ.)

Bottom  
Arrangement

Roll Plug, 1 Jnt.

Perf. Hdg. 2/14, 170 Jnts

9 3/8" Hole

1220 - T.O.C. by T.S.

RDB

Elev

3207

Zero

Pt.

14

Ft.

Above

Oil Str.

Cs:

"Fl.

Loc: Unit J Sec 2 T-22-S 2-37.

198 - 3/4" rods

7 7/8"

26.4- #

C-30

csg.

set @ 2310'

w/ 1500

sxs.

20 sxs @ 3300'

(Circ.)

6/79 Set CIBP @ 4995' w/ 10 sxs

Spot 20sx plug @ 3800'

20sx plug @ 3300'

30sx plug @ 1200'

Pulled 5 1/2" csg @ 78

6 3/4" Hole

20 sxs @ 3800'

ILLEGIBLE

CIBP @ 4945' w/ 10 sxs

5010-5025

5025

Sqrd. w/ 50 sx

5010-5115

PRD. 5150

5120-5204 - Sqrd w/ 2-5000 sqd.

5 1/2"

#

csg.

set @ 5000'

w/ 110

sxs.

240 sx neat, 100 sx 2 3/8 sqd.

5210 T.D.

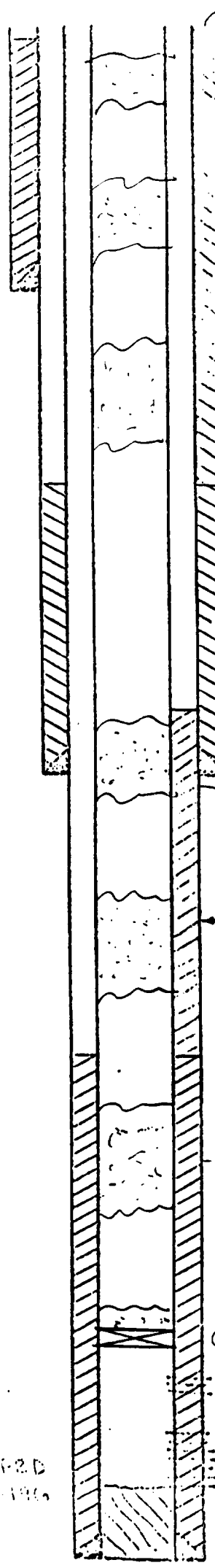
5045-5105

100-443887-1000

ECT @ 1.5% w/ 400 sys.

10 x 10 @ surface

**ILLEGIBLE**



Circ.  
by Data Rep.  
13 3/4" Hole  
10 SXS @ 360'  
30 SXS @ 690'  
10 3/4", 40.5 # C-155 csg.  
set @ 311' w/ 280 SXS.  
35 SXS @ 1200' (Circ.)  
9 7/8" Hole  
2700 - TOC by T.S.  
7 5/8", 26.4 # S-30 csg.  
set @ 2319' w/ 1500 SXS.  
20 SXS @ 2820' (Circ.)  
6 3/4" Hole  
20 SXS @ 3300'  
20 SXS @ 3800'  
CIBP @ 4950' w/ 10 SXS  
5050 - 5060  
5072  
5176  
5 1/2", 14 # H 40 csg.  
set @ 5200' w/ 280 SXS.  
(100 ft. 280 gal. 280 SXS. used)

(Exxon's NH'S'SI #7)

AFE 31931 Date 11-17-73  
Field/Pool Name: Paddock (South 2nd)  
Lease Name/Well No.: Paddock (Unit #14)  
Field Supt. JCSherill Cost \$  
Tbg. Size 2 3/8 Grade C-40  
No. 168 set at 5173  
Jnts. 168 at  
Bottom Arrangement Bull Plug, Int., Per.  
Nip, S/N, 167 Jnts, Comb.  
Sub 10 V X 8 knld Thrd, Tbg Sub 85  
RDB Elev 3370 Zero Ft. 13 Above Oil Str Csg. "Flg"

Loc: Unit N, Sec. 2, T-22-S, R-37E

① Tbg tally S-20-57  
1972 Well Service Report  
Shows 203 rods -  
5019

6/79 Set CIBP @ 4950' spot 10 SXS  
Spot 20 SXS @ 3800'  
20 SXS @ 3300'  
20 SXS @ 2820'  
35 SXS @ 1200'  
Pulled 5 1/2" csg at 690'  
30 SXS @ 690'  
10 SXS @ 360'

**ILLEGIBLE**

P2D  
1196

TD 5200

The following were mailed a copy of Form C-108 on March 17, 1995.

**OFFSET OPERATORS**

Exxon Corporation

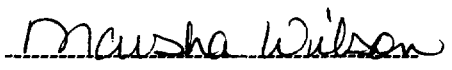
Marathon  
P. O. Box 552  
Midland, TX 79702

John H. Hendrix Corp.  
223 W. Wall, Ste. 525  
Midland, TX 79701

ORYX Energy Co.  
P. O. Box 2880  
Dallas, TX 75221-2880

**SURFACE OWNER**

William Owen Stephens  
P. O. Box 115  
Eunice, N.M. 88231

  
Marsha Wilson  
Operations Integrity

**EXXON** COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

~~RECEIVED~~  
OIL CONSERVATION DIVISION  
RECEIVED

'95 MAR 24 PM 8 52

MIDLAND PRODUCTION ORGANIZATION  
OPERATIONS INTEGRITY

March 27, 1995

Fluid Injection Application  
New Mexico "S" State, Well No. 104

State of New Mexico  
Energy and Minerals Department  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, New Mexico 87504

Attached are copies of the certified mail cards showing proof that the application copies were sent to the surface owner and offset operators. The fluid injection application was previously submitted to you on March 17, 1995.

If there are any questions, please give me a call at 915/688-7871.

Sincerely,

*Marsha Wilson*

Marsha Wilson  
Operations Integrity

/mw  
Attachment

Nm 5 St. 104

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>SENDER:</b> Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.</p> <p>Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.</p> <p>1. <input type="checkbox"/> Show to whom delivered, date, and addressee's address. (Extra charge)      2. <input type="checkbox"/> Restricted Delivery (Extra charge)</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>3. Article Addressed to:</p> <p>William Owen Stephens<br/>P.O. Box 115<br/>Gurice, Nm 88231</p> <p><i>William Owen Stephens</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>4. Article Number</p> <p>P 047 805 384</p> <p>Type of Service:</p> <p><input type="checkbox"/> Registered      <input type="checkbox"/> Insured<br/> <input checked="" type="checkbox"/> Certified      <input type="checkbox"/> COD<br/> <input type="checkbox"/> Express Mail      <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <u>DATE DELIVERED</u>.</p> |
| <p>5. Signature — Addressee</p> <p>X</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>8. Addressee's Address (ONLY if requested and fee paid)</p>                                                                                                                                                                                                                                                                                                                                                                      |
| <p>6. Signature — Agent</p> <p>X</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>7. Date of Delivery</p> <p>3.23.95</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |

PS Form 3811, Apr. 1989

★ U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

Nm 5 St. 104

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| <p>3. Article Addressed to:</p> <p>Oryx Energy Co.<br/>P.O. Box 2880<br/>Dallas, TX 75221-2880</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>4. Article Number</p> <p>P 047 805 385</p> <p>Type of Service:</p> <p><input type="checkbox"/> Registered      <input type="checkbox"/> Insured<br/> <input checked="" type="checkbox"/> Certified      <input type="checkbox"/> COD<br/> <input type="checkbox"/> Express Mail      <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <u>DATE DELIVERED</u>.</p> |
| <p>5. Signature — Addressee</p> <p>X</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>8. Addressee's Address (ONLY if requested and fee paid)</p>                                                                                                                                                                                                                                                                                                                                                                      |
| <p>6. Signature — Agent</p> <p>X</p> <p><i>N. J. J.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>7. Date of Delivery</p> <p>MAR 20 1995</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                     |

PS Form 3811, Apr. 1989

★ U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

NM 5 St. 104

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| <p>3. Article Addressed to:</p> <p>Marathon<br/>P.O. Box 552<br/>Midland, TX 79702</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>4. Article Number</p> <p>PO47 805 387</p> <p>Type of Service:</p> <p><input type="checkbox"/> Registered      <input type="checkbox"/> Insured<br/> <input checked="" type="checkbox"/> Certified      <input type="checkbox"/> COD<br/> <input type="checkbox"/> Express Mail      <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <u>DATE DELIVERED</u>.</p> |
| <p>5. Signature — Addressee</p> <p>X</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>8. Addressee's Address (ONLY if requested and fee paid)</p>                                                                                                                                                                                                                                                                                                                                                                     |
| <p>6. Signature — Agent</p> <p>X <i>[Signature]</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>7. Date of Delivery</p> <p>MAR 20 1995</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                    |

PS Form 3811, Apr. 1989

★ U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

NM 5 St. 104

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| <p>3. Article Addressed to:</p> <p>John H. Hendrix Corp.<br/>223 W. Wall, Suite 525<br/>Midland, TX 79701</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>4. Article Number</p> <p>PO47 805 386</p> <p>Type of Service:</p> <p><input type="checkbox"/> Registered      <input type="checkbox"/> Insured<br/> <input checked="" type="checkbox"/> Certified      <input type="checkbox"/> COD<br/> <input type="checkbox"/> Express Mail      <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and <u>DATE DELIVERED</u>.</p> |
| <p>5. Signature — Addressee</p> <p>X</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>8. Addressee's Address (ONLY if requested and fee paid)</p>                                                                                                                                                                                                                                                                                                                                                                     |
| <p>6. Signature — Agent</p> <p>X <i>Nita Henderson</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>7. Date of Delivery</p> <p>3/25/95</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                    |

PS Form 3811, Apr. 1989

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DOMESTIC RETURN RECEIPT