

**OIL CONSERVATION DIVISION**  
**P.O. Box 2088**  
**Santa Fe, NM 87504-2088**

Instructions on back  
Submit to Appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

District I  
PO Box 1900, Hobbs, NM 88241-1900  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brumas Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|  |  |   |
|--|--|---|
| <sup>1</sup> Operator name and Address<br><b>Phillips Petroleum Company</b><br><b>4001 Penbrook Street</b><br><b>Odessa, TX 797962</b> |  | <sup>2</sup> OGRID Number<br><b>017643</b>      |
| <sup>4</sup> Property Code<br><b>009166</b>  |  | <sup>3</sup> API Number<br><b>30-0 25-33326</b> |
| <sup>5</sup> Property Name<br><b>EAST VACUUM GRAYBURG/SAN ANDRES UNIT</b>  |  | <sup>6</sup> Well Number<br><b>391</b>          |

| <sup>7</sup> Surface Location |           |             |             |          |               |                  |               |                |            |
|-------------------------------|-----------|-------------|-------------|----------|---------------|------------------|---------------|----------------|------------|
| UL or lot no.                 | Section   | Township    | Range       | Lot. Idn | Feet from the | North/South Line | Feet from the | East/West line | County     |
| <b>B</b>                      | <b>34</b> | <b>17-S</b> | <b>35-E</b> |          | <b>1155'</b>  | <b>NORTH</b>     | <b>1523'</b>  | <b>EAST</b>    | <b>LEA</b> |

| <sup>8</sup> Proposed Bottom Hole Location If Different From Surface |           |             |             |          |               |                  |               |                |            |
|--|-----------|-------------|-------------|----------|---------------|------------------|---------------|----------------|------------|
| UL or lot no.  | Section   | Township    | Range       | Lot. Idn | Feet from the | North/South Line | Feet from the | East/West line | County     |
| <b>B</b>   | <b>34</b> | <b>17-S</b> | <b>35-E</b> |          | <b>1155'</b>  | <b>NORTH</b>     | <b>1523'</b>  | <b>EAST</b>    | <b>LEA</b> |

|   |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|
| <sup>9</sup> Proposed Pool 1<br><b>VACUUM GRAYBURG/SAN ANDRES</b> |  |  |  |  | <sup>10</sup> Proposed Pool 2<br><b>VACUUM GRAYBURG/SAN ANDRES</b> |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|

|  |   |   |   |  |
|--|---|---|---|--|
| <sup>11</sup> Work Type Code<br><b>N</b> | <sup>12</sup> Well Type Code<br><b>P</b>      | <sup>13</sup> Cable/Rotary<br><b>ROTARY</b> | <sup>14</sup> Lease Type Code<br><b>STATE</b> | <sup>15</sup> Ground Level Elevation<br><b>3926'</b> |
| <sup>16</sup> Multiple<br><b>NO</b>      | <sup>17</sup> Proposed Depth<br><b>4,900'</b> | <sup>18</sup> Formations<br><b>GB/SA</b>    | <sup>19</sup> Contractor<br><b>NA</b>         | <sup>20</sup> Spud Date<br><b>UPON APPROVAL</b>      |

| <sup>21</sup> Proposed Casing and Cement Program |               |                    |               |                      |                |
|--|---------------|--------------------|---------------|----------------------|----------------|
| Hole Size  | Casing Size   | Casing weight/foot | Setting Depth | Sacks of Cement      | Estimated TOC  |
| <b>12-1/4"</b>                                   | <b>8-5/8"</b> | <b>24#, J-55</b>   | <b>1600'</b>  | <b>600sx Class C</b> | <b>Surface</b> |
| <b>7-7/8"</b>                                    | <b>5-1/2"</b> | <b>15.5#, J-55</b> | <b>4900'</b>  | <b>950sx Class C</b> | <b>Surface</b> |
|  |               |                    |               |                      |                |
|  |               |                    |               |                      |                |
|  |               |                    |               |                      |                |

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

**SEE ATTACHED BLOW OUT PREVENTER SCHEMATIC**  
**ATTACHED CASING & CEMENTING PROGRAM**  
**ATTACHED MUD PROGRAM.**

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway

OPER. OGRID NO. 17343  
PROPERTY NO. 7166  
POOL CODE 62180  
EFF. DATE 3/13/96  
API NO. 30-025-33326

|  |                              |  |                  |
|--|------------------------------|--|------------------|
| <sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. |                              | <b>OIL CONSERVATION DIVISION</b>                             |                  |
| Signature: <u>L.M. Sanders</u>   |                              | Approved by: <b>ORIGINAL SIGNED BY JERRY SEXTON</b>          |                  |
| Printed name: <b>Larry M. Sanders</b>  |                              | Title: <b>DISTRICT I SUPERVISOR</b>                          |                  |
| Title: <b>Senior Regulation Analyst</b>  |                              | Approval Date: <b>MAR 13 1996</b>                            | Expiration Date: |
| Date: <b>03/11/96</b>  | Phone: <b>(915) 368-1488</b> | Conditions of Approval:<br>Attached <input type="checkbox"/> |                  |

DISTRICT I  
P.O. Box 1880, Hobbs, NM 88241-1880

State of New Mexico  
Energy, Minerals and Natural Resources Depart

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

## OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

|                         |   |   |
|-------------------------|---|---|
| API Number              | Pool Code<br>62180                          | Pool Name<br>Vacuum Grayburg/San Andres |
| Property Code<br>009166 | Property Name<br>EVGSAU                     | Well Number<br>391                      |
| OGRID No.<br>017643     | Operator Name<br>PHILLIPS PETROLEUM COMPANY | Elevation<br>3926                       |

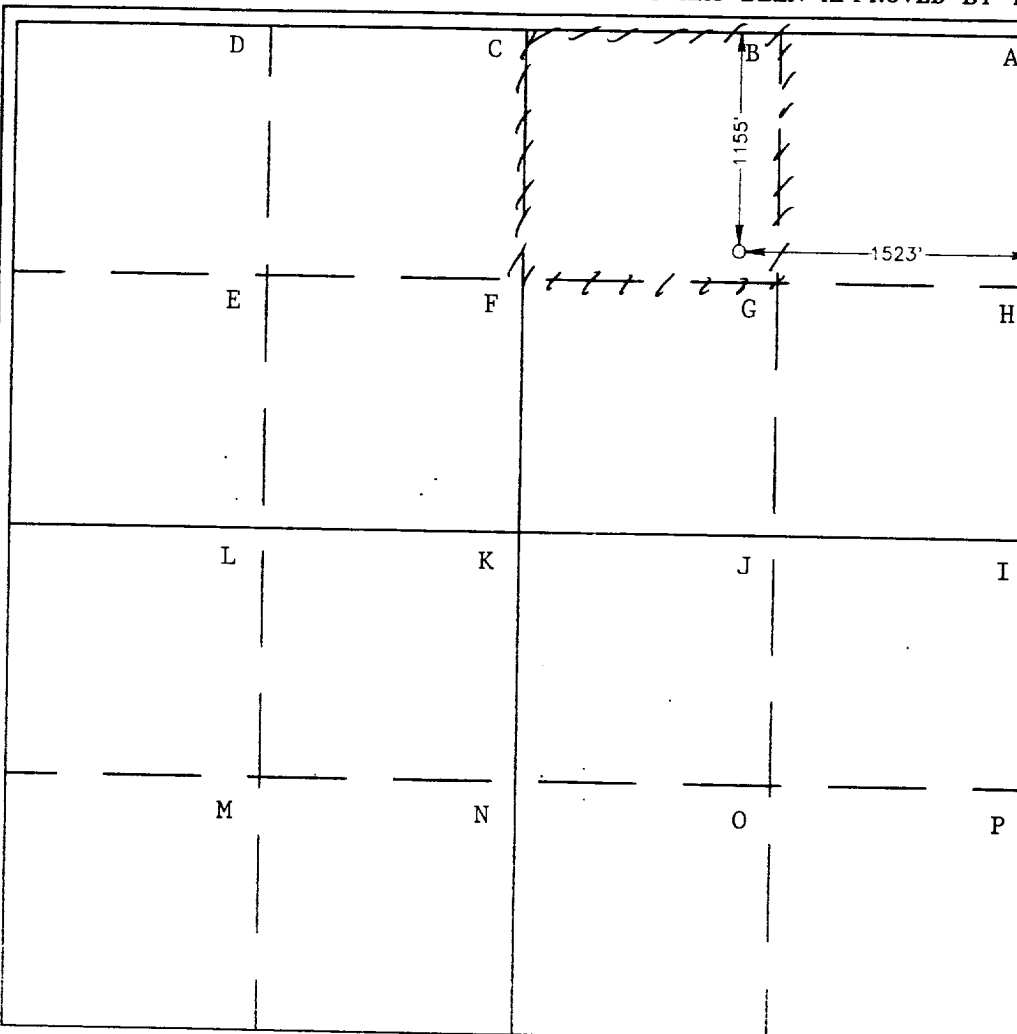
#### Surface Location

|                    |               |                  |               |         |                       |                           |                       |                        |               |
|--------------------|---------------|------------------|---------------|---------|-----------------------|---------------------------|-----------------------|------------------------|---------------|
| UL or lot No.<br>B | Section<br>34 | Township<br>17 S | Range<br>35 E | Lot Idn | Feet from the<br>1155 | North/South line<br>NORTH | Feet from the<br>1523 | East/West line<br>EAST | County<br>LEA |
|--------------------|---------------|------------------|---------------|---------|-----------------------|---------------------------|-----------------------|------------------------|---------------|

#### Bottom Hole Location If Different From Surface

|                       |                 |                    |           |         |               |                  |               |                |        |
|-----------------------|-----------------|--------------------|-----------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot No.         | Section         | Township           | Range     | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| Dedicated Acres<br>40 | Joint or Infill | Consolidation Code | Order No. |         |               |                  |               |                |        |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



#### OPERATOR CERTIFICATION

I hereby certify the the information  
contained herein is true and complete to the  
best of my knowledge and belief.

*L. M. Sanders*  
Signature

L. M. Sanders  
Printed Name

Sr. Regulations Analyst  
Title

March 11, 1996  
Date

#### SURVEYOR CERTIFICATION

I hereby certify that the well location shown  
on this plat was plotted from field notes of  
actual surveys made by me or under my  
supervision, and that the same is true and  
correct to the best of my belief.

FEBRUARY 16, 1996

Date Surveyed  
Signature & Seal of  
Professional Surveyor

*Ronald E. Eidson*  
2-22-96  
SW O. Num 96-180223

Certificate No. JOHN M. WEST 676  
RONALD E. EIDSON 3239  
PROFESSIONAL SURVEYOR 12641

## CASING & CEMENTING PROGRAM

EVGSAU 3467-391

### 8 5/8" 24 lb/ft J-55 Surface Casing Set at 1600' - 12 1/4" Hole:

Lead: 450 sx Class "C" +4% Gel + 2% CaCl<sub>2</sub>.  
Desired TOC = Surface.

|                    |                          |
|--------------------|--------------------------|
| Slurry Weight:     | 13.5 ppg                 |
| Slurry Yield:      | 1.72 ft <sup>3</sup> /sx |
| Water Requirement: | 9.06 gals/sx             |

Tail: 150 sx Class "C" + 2% CaCl<sub>2</sub>.  
Desired TOC = 1300'.

|                    |                          |
|--------------------|--------------------------|
| Slurry Weight:     | 14.8 ppg                 |
| Slurry Yield:      | 1.32 ft <sup>3</sup> /sx |
| Water Requirement: | 6.3 gals/sx              |

### 5 1/2" 15.5 lb/ft J-55 Production Casing Set at 4900' - 7 7/8" Hole:

Lead: 700 sx Class "C" 65/35 Poz + 6% Gel + 3% Salt.  
Desired TOC = Surface.

|                    |                          |
|--------------------|--------------------------|
| Slurry Weight:     | 12.8 ppg                 |
| Slurry Yield:      | 1.85 ft <sup>3</sup> /sx |
| Water Requirement: | 9.9 gals/sx              |

Tail: 250 sx Class "C" 50/50 Poz + Fluid Loss + 1.5% CaCl<sub>2</sub>.  
Desired TOC = 4000'.

|                    |                          |
|--------------------|--------------------------|
| Slurry Weight:     | 14.6 ppg                 |
| Slurry Yield:      | 1.15 ft <sup>3</sup> /sx |
| Water Requirement: | 5.0 gals/sx              |

## **MUD PROGRAM**

**East Vacuum Grayburg San Andres (3467 - 391 & 2738 - 392)**

| <b>DEPTH</b>  | <b>MUD WEIGHT</b> | <b>VISCOSITY</b>    | <b>FLUID LOSS</b> | <b>CL PPM</b> | <b>% SOLIDS</b> | <b>ADDITIVES</b> |
|---------------|-------------------|---------------------|-------------------|---------------|-----------------|------------------|
| Surf. - 1600' | 8.3 - 9.0 ppg     | 28 - 36 sec/1000 cc | N/C               | -             | -               | Native Solids    |
| 1600' - 4000' | 10.0 ppg          | 28 - 32 sec/1000 cc | N/C               | Saturated     | -               | Native Solids    |
| 4000' - TD    | 10.0 - 10.2 ppg   | 32 - 36 sec/1000 cc | 20 cc             | Saturated     | -               | Starch/Drispac+  |

The Mud Engineer shall include on each test report the materials used for the previous 24 hour period. Daily fax the test reports to (915) 368-1507 Attn: J.C. Shoumaker / L.E. Robinson.

Send two copies of the Well Recap (Final Cost & Engineering Summaries) to Philips Petroleum Company , Attn: J.C. Shoumaker / L.E. Robinson, 4001 Penbrook, Odessa, Texas 79762

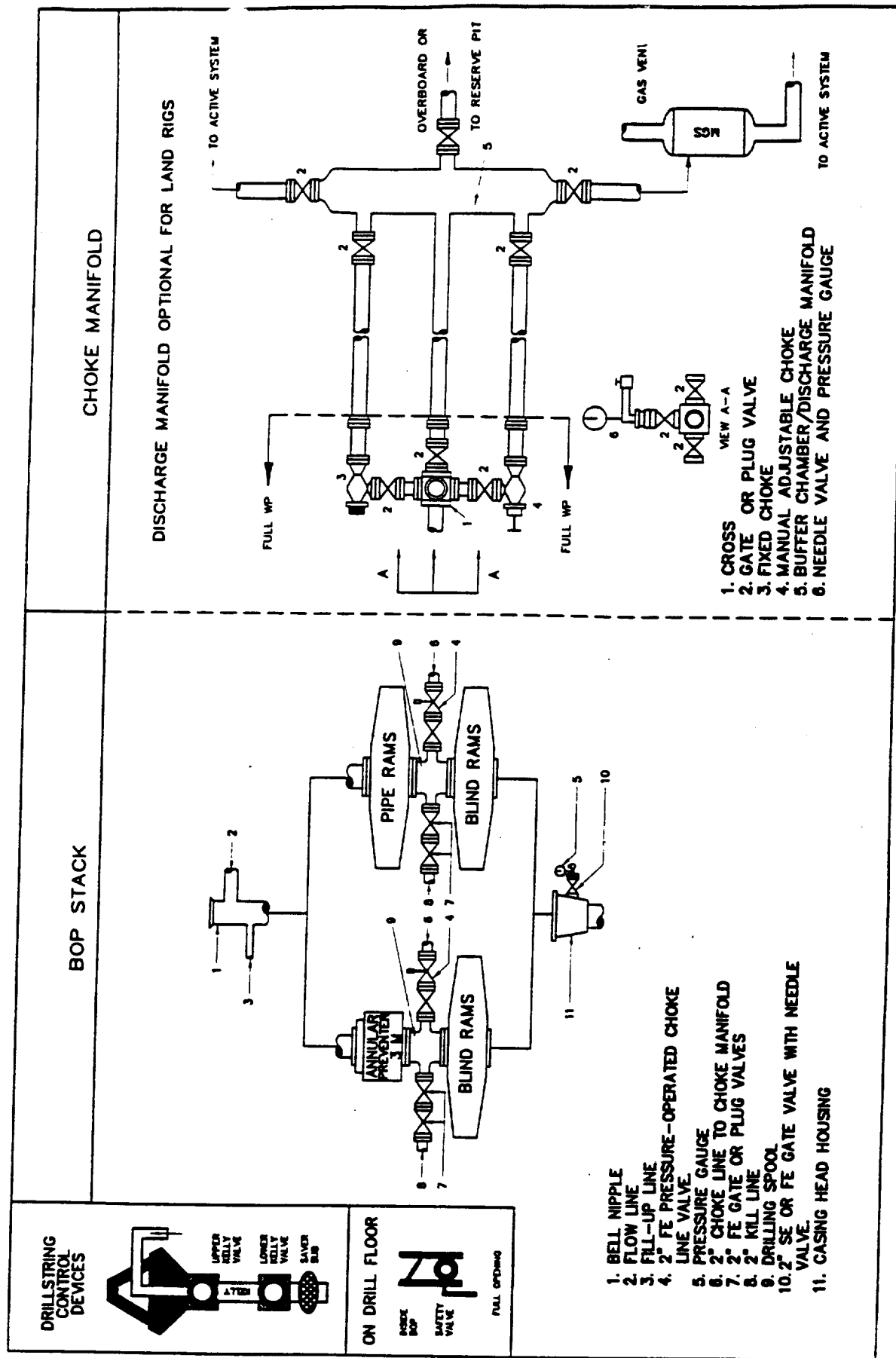


Fig. 2.4. Class 2 BOP and Choke Manifold.