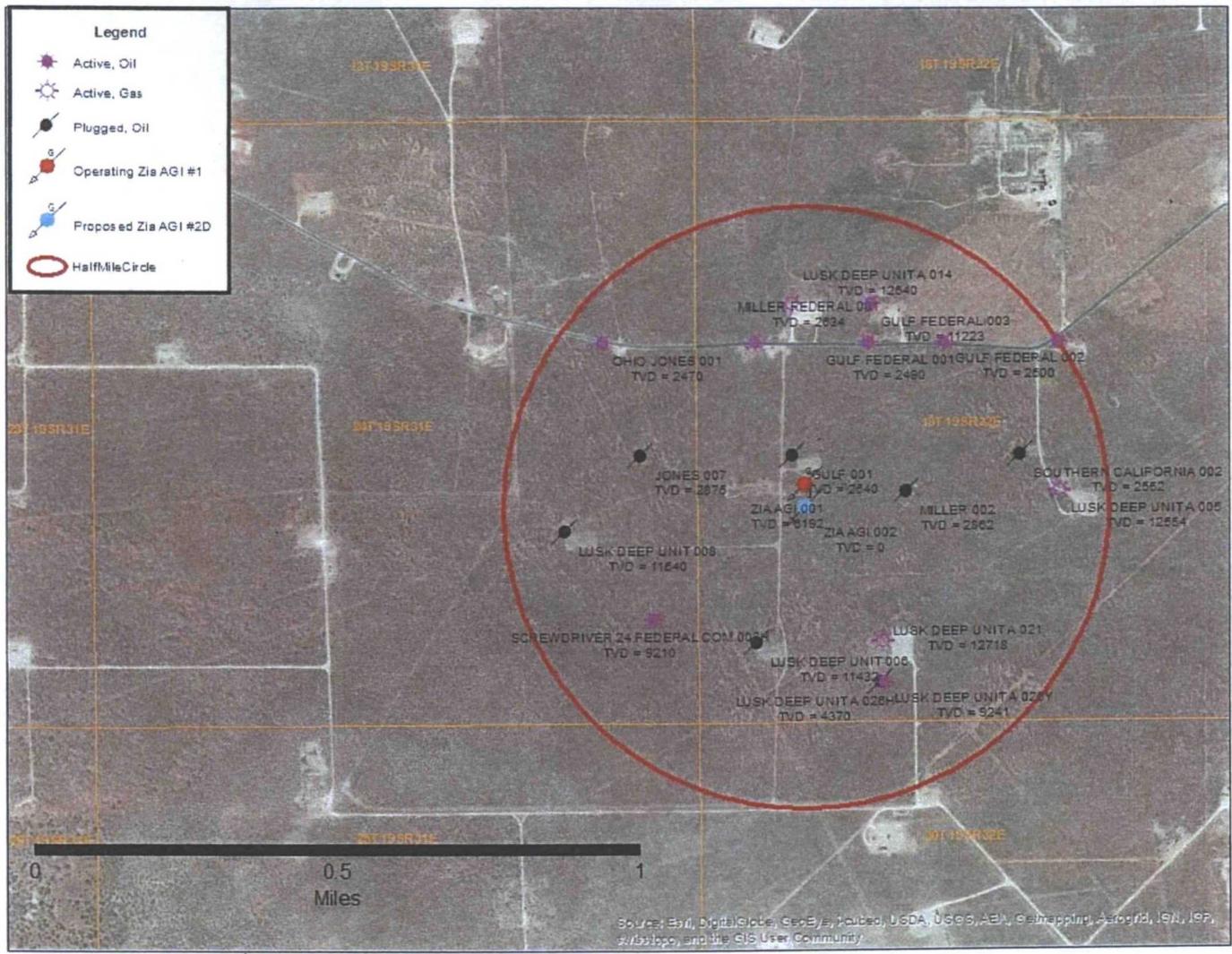


**Figure A2**

**Wells Within One Half Mile of Zia AGI #2D**



**Figure A2: Wells Within One Half Mile of Proposed Zia AGI #2D**

**Exhibit A1: Plugging Records and Drilling Logs, Lusk Deep Unit #2**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIP  
(Other instruction  
verse side)

Form approved.  
Budget Bureau No. 42-1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC 064198A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1.

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

El Paso Products

3. ADDRESS OF OPERATOR

c/o Hobbs Pipe & Supply Co., Box 2010, Hobbs, N.M.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

660' FSL & 1980' FEL

7. UNIT AGREEMENT NAME

Lusk Deep Unit

8. FARM OR LEASE NAME

Lusk Deep Unit

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Lusk Strawn *Narrow*

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

Sec. 18, T19S, R32E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

3585'

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

- 1 - Spotted 30 sx cement plug @ 12,350'.
- 2 - Spotted 35 sx cement plug @ 11,200'.
- 3 - Spotted 35 sx cement plug @ 7,000' at Bone Springs.
- 4 - Spotted 50 sx cement plug @ base of 13 3/8" and 9 5/8" csg. stub at 4462'.
- 5 - Spotted 35 sx cement plug @ 2900'.
- 6 - Spotted 10 sx cement plug at surface with marker.
- 7 - Hole was loaded with mud-laden fluids.
- 8 - Well was plugged and abandoned on 9/4/71.

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

SIGNED

*[Signature]*

TITLE

Agent

DATE

9/9/71

(This space for Federal or State office use)

APPROVED BY

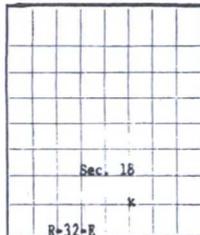
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

J L C  
ACTING DISTRICT ENGINEER



U.S. LAND OFFICE New Mexico  
SERIAL NUMBER LC 064198 A  
LEASE OR PERMIT TO PROSPECT  
Lusk Deep Unit

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address 2005 Wilco Building, Midland, Texas  
Lessor or Tract Lusk Deep Unit Field Lusk - Morrow State New Mexico  
Well No. 2 Sec. 18 T-19 S-R-32 Meridian MPM County Lea  
Location .660' ft. of S. Line and 1280' ft. of E. Line of Sec. 18 Elevation 3585 CL  
The information given herewith is a complete and correct record of the well and all work done thereon  
so far as can be determined from all available records.  
Signed [Signature] Title [Signature]

Date April 14, 1961 Title \_\_\_\_\_

The summary on this page is for the condition of the well at above date.

Commenced drilling October 16 1959 Finished drilling March 13 1961

OIL OR GAS SANDS OR ZONES

(Denot. ga. by G)

No. 1, from 11,220 to 11,250' No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 12,380 to 12,390' No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

| Size casing | Weight per foot | Threads per inch | Make | Amount          | Kind of shoe | Cut and pulled from | Perforated From-To | Purpose      |
|-------------|-----------------|------------------|------|-----------------|--------------|---------------------|--------------------|--------------|
| 13 3/8      | 72#             | 8 round          | new  | 4462'           | Halliburton  |                     |                    | Surface      |
| 9 5/8       | 53.5#           | Buttress         |      | 11400'          |              |                     |                    | Intermediate |
|             | 47#-43.5#       |                  |      |                 |              |                     | 11,220-11,250      |              |
| 5"          | 18#             | 8 round          | "    | 13551' (bottom) |              |                     | 12380-12,398       | Production   |
| liner       |                 |                  |      | 11299' (top)    |              |                     |                    |              |

MUDDING AND CEMENTING RECORD

| Size casing | Where set       | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
|-------------|-----------------|------------------------|-------------|-------------|--------------------|
| 13 3/8      | 4462'           | 340                    | pump & pipe |             |                    |
| 9 5/8       | 11400'          | 525                    |             |             |                    |
| 5"          | 13551' (bottom) | 717 cubic ft.          |             |             |                    |
|             | 11299' (top)    |                        |             |             |                    |

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |

TOOLS USED

Rotary tools were used from \_\_\_\_\_ feet to 13,770 feet and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

Dually Completed 3/31 1961 Put to producing (Strawn) 4/1 1961  
The production for the first 24 hours was 640.8 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, 86.  
If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Rock pressure, lbs. per sq. in. 5799 (BHP - 7585 - datum point = 7585)

EMPLOYEES

\_\_\_\_\_, Driller (Morrow zone shut-in awaiting gas line)  
\_\_\_\_\_, Driller  
\_\_\_\_\_, Driller

FORMATION RECORD

| FROM- | TO-   | TOTAL FEET | FORMATION             |
|-------|-------|------------|-----------------------|
| 0     | 733   | 733        | recbed                |
| 733   | 1044  | 311        | anhydrite, dolo       |
| 1044  | 2290  | 1246       | salt                  |
| 2290  | 2563  | 273        | dolo, anhydrite       |
| 2563  | 2945  | 382        | anhydrite, sand       |
| 2945  | 4515  | 1570       | anhydrite, dolo       |
| 4515  | 6985  | 2470       | dolo, sand, anhydrite |
| 6985  | 10280 | 3295       | lime, sand            |
| 10280 | 11070 | 790        | lime, sand            |
| 11070 | 11505 | 435        | lime                  |
| 11505 | 12510 | 1005       | shale, sand, lime     |
| 12510 | 12605 | 95         | lime                  |
| 12605 | 12755 | 150        | shale                 |
| 12755 | 13300 | 545        | lime                  |
| 13300 | 13414 | 114        | shale                 |
| 13414 | 13974 | 560        | lime, dolo, chert     |

TOPS

|                   |       |
|-------------------|-------|
| Anhyirite         | 733   |
| Salt              | 1044  |
| Tasell            | 2290  |
| Yates             | 2563  |
| Seven Rivers      | 2945  |
| Delaware Mountain | 4515  |
| Bone Springs      | 5985  |
| Wolfcamp          | 10280 |
| Strawn            | 11070 |
| Atoka             | 11505 |
| Barnett           | 12605 |
| Mississippian     | 12755 |
| Woodford          | 13300 |
| Davonian          | 13414 |

**HISTORY OF OIL OR GAS WELL**

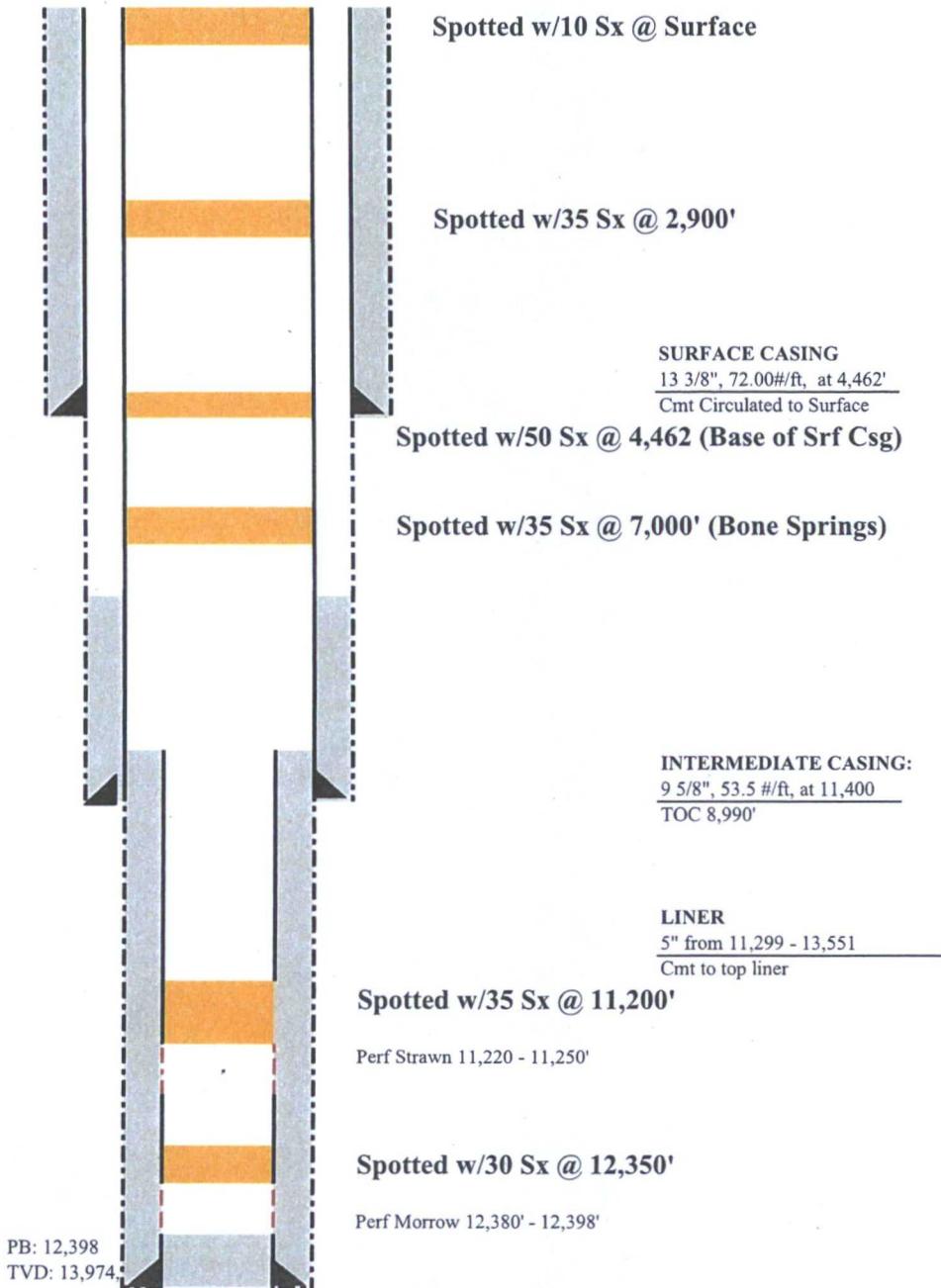
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or testing.

This well is a dual completion, but at the present time only the upper zone (Strawn) is being produced. The lower zone (Morrow) will be shut-in until a gas pipeline is available to this area. There are two strings of tubing in this well. The No. 1 string of 2 3/8" EUE is landed @ 12,416' with a packer set @ 12,280'. The No. 2 string of 2 3/8" EUE is landed @ 11,164' with a packer set @ 11,065'.

**Figure A2: Plugging Diagram for Lusk Deep Unit #2**

**Figure A-2**  
**Plugging Diagram for Lusk Deep Unit**

Location: Lusk Deep Unit 02  
 STR: Section 18, T19S-R32E  
 County, St.: LEA COUNTY, NEW MEXICO



**NOT TO SCALE**

**ATTACHMENT 2**

**Closed-Loop Plan for Zia AGI #2D**

### **Closed Loop System Design Plan (pursuant to 19.15.17.11 NMAC)**

The closed loop design does not incorporate any temporary pits or below-grade tanks. The plan uses above-ground tanks suitable to contain the fluids and cuttings generated during the drilling operations. The volume(s) of the tank(s) will be suitable to contain all anticipated fluids with an adequate freeboard for periodic removal of cuttings and fluids.

The fluids and cuttings will be held in temporary steel tanks, allowing settling of the cuttings and recycling of the drilling fluids. Following completion of drilling operations, the fluids and cuttings will be removed to a permitted disposal facility in Lea County (Controlled Recovery, Inc.).

The grading and operation of the drilling pad will be maintained to minimize and control on-run and off-run from storm water.

### **Closed Loop Operations and Maintenance Plan (pursuant to 19.15.17.12 NMAC)**

1. Any free liquids will be recovered and reused, disposed of at the Controlled Recovery, Inc. facility (Permit #.NM-1-006), or relocated for use in other permitted drilling operations.
2. Drill solids will be periodically removed from the site and transported to the Controlled Recovery facility for disposal, as required to maintain a safe freeboard on the tanks. No on-site disposal or burial of cuttings will occur.
3. All drilling materials and trash will be stored and disposed of in an appropriate manner.
4. The NMOCD and BLM will be notified within 48 hours of the discovery of any compromised integrity of the closed loop containment. Any required repairs will commence immediately.

### **Closed Loop Closure Plan (pursuant to 19.15.17.9 NMAC and 19.15.17.13 NMAC)**

1. Following the completion of drilling operations, the temporary fluid tanks will be cleaned and the final residues hauled and disposed of by Controlled Recovery, Inc. facility (Permit # NM-1-006).
2. The site will be re-graded as necessary to maintain drainage control and minimize erosion. Since the drilling site is owned by the Operator (DCP Midstream, LP), there will be no impacts to Federal lands or any other property owner.
3. Appropriate fencing, signage and other security measures will be installed after well completion and installation of the surface injection facilities.