

Submit 3 Copies To Appropriate  
District Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W Grand Ave., Artesia, NM  
88210  
District III  
1000 Rio Brazos Rd., Aztec, NM  
87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM,  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
May 27, 2004

**HOBBS OGD**  
**NOV 03 2011**  
**RECEIVED**  
CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|   |
|---|
| WELL API NO.<br>30-025-28458 ✓  |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>                                 |
| 6. State Oil & Gas Lease No.  |
| 7. Lease Name or Unit Agreement<br>Name<br>LANGLIE MATTIX PENROSE SAND<br>UNIT ✓  |
| 8. Well Number 1 ✓  |
| 9. OGRID Number 240974 ✓  |
| 10. Pool name or Wildcat<br>Langlie Mattix; 7 Rvrs-Qn-Grayburg ✓  |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)  |
| Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>                                    |
| Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface<br>water _____ |

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. 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 checked="" 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"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>  | MULTIPLE COMPL <input type="checkbox"/>              | CASING/CEMENT JOB <input type="checkbox"/>       |  |
| OTHER: <input type="checkbox"/>                |  | OTHER: <input type="checkbox"/>                  |  |

13 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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

----- PLEASE SEE ATTACHED PROCEDURE -----

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Kent Williams TITLE: Senior Engineer DATE: 11/03/11

Type or print name Kent Williams E-mail address: \_\_\_\_\_ Telephone No. (432) 689-5200  
For State Use Only

APPROVED BY: [Signature] TITLE: Staff mgr DATE: 11-3-2011

THE OIL CONSERVATION DIVISION **MUST**  
**BE NOTIFIED 24 HOURS PRIOR TO THE**  
**BEGINNING OF PLUGGING OPERATIONS**

NOV 03 2011

## **PLUG AND ABANDONMENT PROCEDURE**

### **Langlie Mattix Penrose Sand Unit #1**

Date: 10/25/11

#### **(Observation Well)**

Field/Pool: Langlie Mattix 7Rivers-Queen-Grayburg  
Lea Co., NM

Engineer: Kent Williams  
Company: Legacy Reserves Operating, LP

**Purpose Of Procedure:** Plug and abandon the subject salt zone observation well. Well drilled in 1983 by Anadarko Petroleum at the request of NMOCD to evaluate and monitor an area salt zone waterflow. The NMOCD has now requested Legacy plug this well as the current operator.

#### **Pre-Job:**

- Check location for required dirtwork and clearing of mesquite to accommodate plugging equipment
- Test pulling unit anchors, as necessary

#### **Procedure:**

1. MIRU plugging company. NU 2000# min. rated BOP.
2. RIH w/ 2 3/8" workstring tbg. to PBTD (Max PBTD=2470')
3. Plug 1 - Open Hole Plug - Spot 525 sxs cement from 2470'-1050' (1420'). WOC. Tag plug.
4. RIH w/ tbg and top off Plug #1 with addl cement as necessary to bring plug to 1050'. WOC. Re-tag plug.
5. Circulate hole w/ 9.5 PPG mud laden fluid (25 sxs of 50 # gel sxs in 100 bbs brine). Est 67 bbls mud needed from 1050'.
6. POH w/ tbg to 400'.
7. Plug 2 - Surface Plug -Spot 110 sxs cement from 400'-0' (400'). Top off w/ cement.
8. Cut off well head. Weld on dry hole marker. Clean location.

#### **Note:**

- Use Class "C" Cement
- Notify NMOCD 48 hrs. prior to commencing operation. NMOCD-Hobbs (575-393-6161)

#### **Misc Information:**

AFE Cost - \$ 37,000 (Gross)

AFE# Pending

Openhole calculations assume 9 000" average open-hole size (Hole drilled w/ 7 7/8" bit). No open-hole caliper available. Also added 10% additional cement to account for cement loss to drinkage.

## WELLBORE SCHEMATIC

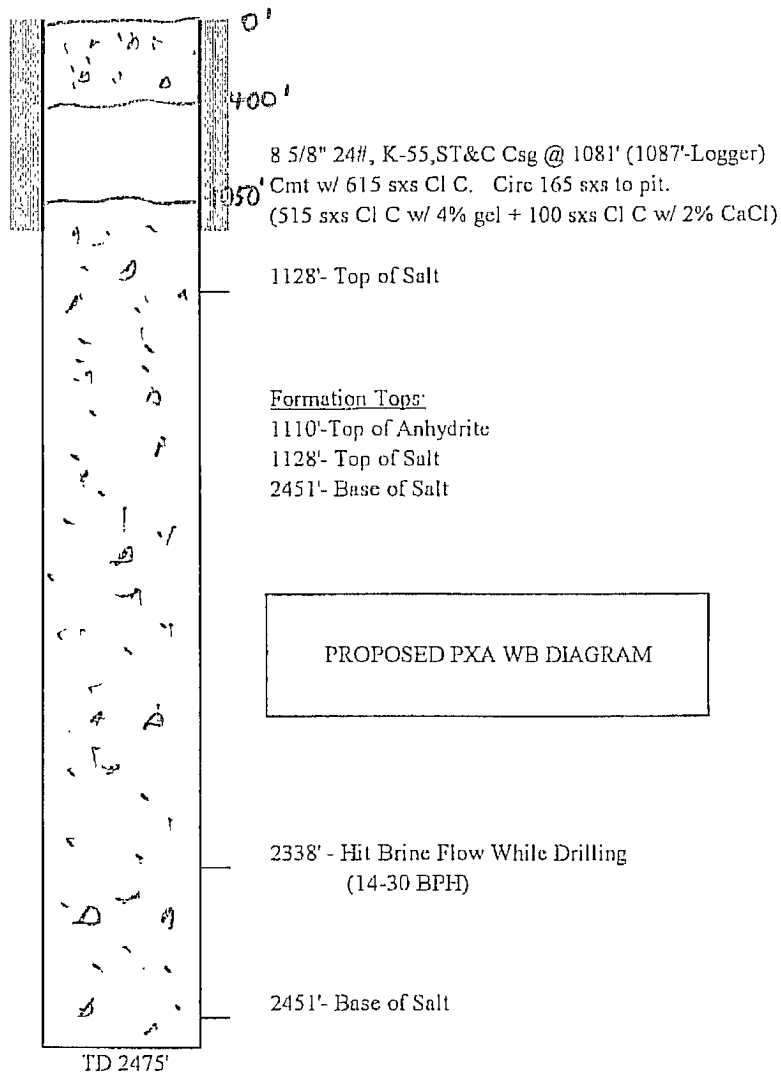
|                  |   |                  |                   |
|------------------|---|------------------|-------------------|
| Well Name & No.: | LMPSU #1 (Observation Well)                                   |                  |                   |
| Field:           | Langlie Mattix (7R/Q/GB)                                      |                  |                   |
| Location:        | 510' FN L x 2070' FWL, Sec. 27, Unit Letter C, T-22-S, R-37-E |                  |                   |
| County:          | Lea   | API #:           | 30-025-28458      |
| State:           | NM  | Spud Date:       | 12/30/83          |
| GR Elev:         | 3340.2  | Orig. Operator:  | Anadarko Prod Co. |
| KB:              | 5.0   | Orig. Well Name: | Observation #1    |
| GR Elev:         | 3345.2  |                  |                   |

Plug #2 - 0'-400'  
(400')  
Cmt w/ 110 sxs cmt.

12 1/4" Hole  
@ 1108'  
Plug #1 - 1050'-2470'  
(1420')  
Cmt w/ 525 sxs cmt.  
WOC. Tag.

Well Drilled To Evaluate &  
Monitor The Salt Zone Pressure  
At The Request of the NMOC

7 7/8" Hole  
2470'-PBTD  
(Logger)



## WELLBORE SCHEMATIC

|                  |   |                  |                          |
|------------------|---|------------------|--------------------------|
| Well Name & No.: | <u>LMPSU #1 (Observation Well)</u>                                    |                  |                          |
| Field:           | <u>Langlie Mattix (7R/Q/GB)</u>                                       |                  |                          |
| Location:        | <u>510 ' FN L x 2070' FWL, Sec. 27, Unit Letter C, T-22-S, R-37-E</u> |                  |                          |
| County:          | <u>Len</u>  |                  |                          |
| State:           | <u>NM</u>   | API #:           | <u>30-025-28458</u>      |
| GR Elev:         | <u>3340.2</u>   | Spud Date:       | <u>12/30/83</u>          |
| KB:              | <u>5.0</u>  | Orig. Operator:  | <u>Anadarko Prod Co.</u> |
| GR Elev:         | <u>3345.2</u>   | Orig. Well Name: | <u>Observation #1</u>    |

