

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

- |   |  |
|---|--|
| <p>1. Type of Well<br/>GAS</p> <p>2. Name of Operator<br/><b>MERIDIAN OIL</b></p> <p>3. Address &amp; Phone No. of Operator<br/>PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <p>4. Location of Well, Footage, Sec., T, R, M<br/>1650'FSL, 1683'FWL, Sec.10, T-25-N, R-6-W, NMPM</p> | <p>5. Lease Number<br/>SF-078885</p> <p>6. If Indian, All. or<br/>Tribe Name</p> <p>7. Unit Agreement Name<br/>Canyon Largo Unit</p> <p>8. Well Name &amp; Number<br/>Canyon Largo U #164</p> <p>9. API Well No.<br/>30-039-20408</p> <p>10. Field and Pool<br/>Otero Chacra</p> <p>11. County and State<br/>Rio Arriba Co, NM</p> |
|---|--|

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Notice of Intent | <input checked="" type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans         |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Recompletion           | <input type="checkbox"/> New Construction        |
| <input type="checkbox"/> Final Abandonment           | <input type="checkbox"/> Plugging Back          | <input type="checkbox"/> Non-Routine Fracturing  |
|  | <input type="checkbox"/> Casing Repair          | <input type="checkbox"/> Water Shut off          |
|  | <input type="checkbox"/> Altering Casing        | <input type="checkbox"/> Conversion to Injection |
|  | <input type="checkbox"/> Other -                |  |

13. Describe Proposed or Completed Operations

It is intended to plug & abandon the subject well according to the attached procedure & wellbore diagram.

RECEIVED  
SEP 28 1994  
OIL CON. DIV.  
DIST. 3

SEP 14 PM 3:24  
OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (ROS3) Title Regulatory Affairs Date 8/22/94

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

CONDITION OF APPROVAL, if any:

APPROVED  
AS AMENDED

SEP 25 1994  
DISTRICT MANAGER

## PERTINENT DATA SHEET

| <b>WELLNAME:</b> Canyon Largo Unit #164  | <b>DP NUMBER:</b> 44601A<br><b>PROP. NUMBER:</b> 007971700  |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
|--|---|---|-------------------------------------|---------------|-------------------------------------|---------------|---|---------------|---|-----------------------|------------|-----------------------|--------|--------|-------|-------|---------|-----------------|--------|------|------|-------|---|--------|-------------|-----------|--|--|--|--|--|--|--|
| <b>WELL TYPE:</b> Otero Chacra   | <b>ELEVATION:</b> GL: 6688'<br>KB: 6699'  |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>LOCATION:</b> 1650' FSL 1683' FWL<br>SW Sec. 10. T25N, R6W<br>Rio Arriba County, New Mexico   | <b>INITIAL POTENTIAL:</b> AOF 1,798 MCF/D<br><br><b>SICP:</b> June, 1979 222 PSIG                               |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>OWNERSHIP:</b> GWI: 71.2677%<br>NRI: 60.3226%   | <b>DRILLING:</b> SPUD DATE: 09-03-71<br>COMPLETED: 10-25-71<br>TOTAL DEPTH: 3791'<br>PBTD: 3781'<br>COTD: 3781' |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>CASING RECORD:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>HOLE SIZE</u></th> <th style="text-align: left;"><u>SIZE</u></th> <th style="text-align: left;"><u>WEIGHT</u></th> <th style="text-align: left;"><u>GRADE</u></th> <th style="text-align: left;"><u>DEPTH</u></th> <th style="text-align: left;"><u>EQUIP.</u></th> <th style="text-align: left;"><u>CEMENT</u></th> <th style="text-align: left;"><u>TOC</u></th> </tr> </thead> <tbody> <tr> <td>12-1/4"</td> <td>8-5/8"</td> <td>24.0#</td> <td>J-55</td> <td>137'</td> <td>-</td> <td>90 sx</td> <td>surface</td> </tr> <tr> <td>7-7/8" &amp; 6-3/4"</td> <td>2-7/8"</td> <td>6.4#</td> <td>J-55</td> <td>3791'</td> <td>-</td> <td>350 sx</td> <td>2491' (75%)</td> </tr> <tr> <td colspan="8">No Tubing</td> </tr> </tbody> </table> |   | <u>HOLE SIZE</u>  | <u>SIZE</u>                         | <u>WEIGHT</u> | <u>GRADE</u>                        | <u>DEPTH</u>  | <u>EQUIP.</u>   | <u>CEMENT</u> | <u>TOC</u>  | 12-1/4"               | 8-5/8"     | 24.0#                 | J-55   | 137'   | -     | 90 sx | surface | 7-7/8" & 6-3/4" | 2-7/8" | 6.4# | J-55 | 3791' | - | 350 sx | 2491' (75%) | No Tubing |  |  |  |  |  |  |  |
| <u>HOLE SIZE</u>   | <u>SIZE</u>   | <u>WEIGHT</u>   | <u>GRADE</u>                        | <u>DEPTH</u>  | <u>EQUIP.</u>                       | <u>CEMENT</u> | <u>TOC</u>  |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| 12-1/4"  | 8-5/8"  | 24.0#   | J-55                                | 137'          | -                                   | 90 sx         | surface   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| 7-7/8" & 6-3/4"  | 2-7/8"  | 6.4#  | J-55                                | 3791'         | -                                   | 350 sx        | 2491' (75%)   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| No Tubing  |   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>FORMATION TOPS:</b> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td>Nacimiento</td><td>520'</td></tr> <tr><td>Ojo Alamo</td><td>2190'</td></tr> <tr><td>Kirtland</td><td>2265'</td></tr> <tr><td>Fruitland</td><td>2560'</td></tr> <tr><td>Pictured Cliffs</td><td>2742'</td></tr> <tr><td>Lewis</td><td>2828'</td></tr> <tr><td>Chacra</td><td>3608'</td></tr> </tbody> </table>   |   | Nacimiento  | 520'                                | Ojo Alamo     | 2190'                               | Kirtland      | 2265'   | Fruitland     | 2560'   | Pictured Cliffs       | 2742'      | Lewis                 | 2828'  | Chacra | 3608' |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Nacimiento   | 520'  |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Ojo Alamo  | 2190'   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Kirtland   | 2265'   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Fruitland  | 2560'   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Pictured Cliffs  | 2742'   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Lewis  | 2828'   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Chacra   | 3608'   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>LOGGING:</b> IEL, GR, CD  |   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>PERFORATIONS:</b> 3612' - 28', 3708' - 16'. w/32 SPZ. Total 64 holes  |   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>STIMULATION:</b> Fraced w/30,000# 20/40 sand, 25,800 gal. water. Dropped 1 sets of 32 balls, flushed w/1,500 gal. water.  |   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>WORKOVER HISTORY:</b> None  |   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
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| <u>Gas</u>   | <u>Oil</u>  |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Cumulative as of May 94: 496.0 MMcf  | 0 MBbl  |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| Current Rate: 0 Mcfd   | 0 Bopd  |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <u>Gas</u>   | <u>Oil</u>  |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| July, 1991 0.13 Mcf/D  | 0 bb/D  |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |
| <b>PIPELINE:</b> EPNG  |   |   |                                     |               |                                     |               |   |               |   |                       |            |                       |        |        |       |       |         |                 |        |      |      |       |   |        |             |           |  |  |  |  |  |  |  |

## PLUG & ABANDONMENT PROCEDURE

Canyon Largo Unit #164  
Otero Chacra  
SW Section 10, T-25-N, R-06-W  
Rio Arriba Co., New Mexico

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test location rig anchors. Prepare blow pit. Comply to all NMOCD, BLM, and MOI regulations.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line. Blow down well and kill with water as necessary. ND wellhead and NU BOP. Test BOP.
3. Open bradenhead valve. Establish a rate down casing with 50 bbls water, record pump rate and pressure. Monitor bradenhead for flow. If bradenhead flows water, move in rig with workstring to plug well. If not, pump 21 frac balls in additional water and monitor pressure, rate, and volumes pumped, to confirm perforations taking water.
4. **Plug #1 (Chacra, Lewis, Pictured Cliffs, and Fruitland tops):** Establish a rate into perforations with water. Mix and pump 38 sx Class B cement. Displace with water to 2510'. WOC.
5. Tag cement top with wireline. Pressure test 2-7/8" casing to 500 psi. Cut off 2-7/8" casing at 2510'. If pressure test holds, continue with step #5. If not, TOOH with 2-7/8" casing and replace bad joints. TIH with 2-7/8" to 2315'.
6. **Plug #2 (Kirtland and Ojo Alamo tops):** Mix 101 sx of Class B cement and spot a balanced plug from 2315' - 2140'. Pull above cement and spot water to 570'.
7. **Plug #3 (Surface):** Mix approximately 173 sx Class B cement and spot a balanced plug from 570' - surface. Shut in well and WOC.
8. ND BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RD, MOL, cut off anchors, and restore location.

Recommended: \_\_\_\_\_  
Operations Engineer

Approval: \_\_\_\_\_  
Production Superintendent

# Canyon Largo Unit #164

**CURRENT**

Otero Chacra

SW Section 10, T-25-N, R-6-W, Rio Arriba County, NM

Today's Date: 9/8/94

Spud: 9/3/71

Completed: 10/25/71

Nacimiento @ 520'

Ojo Alamo @ 2190'

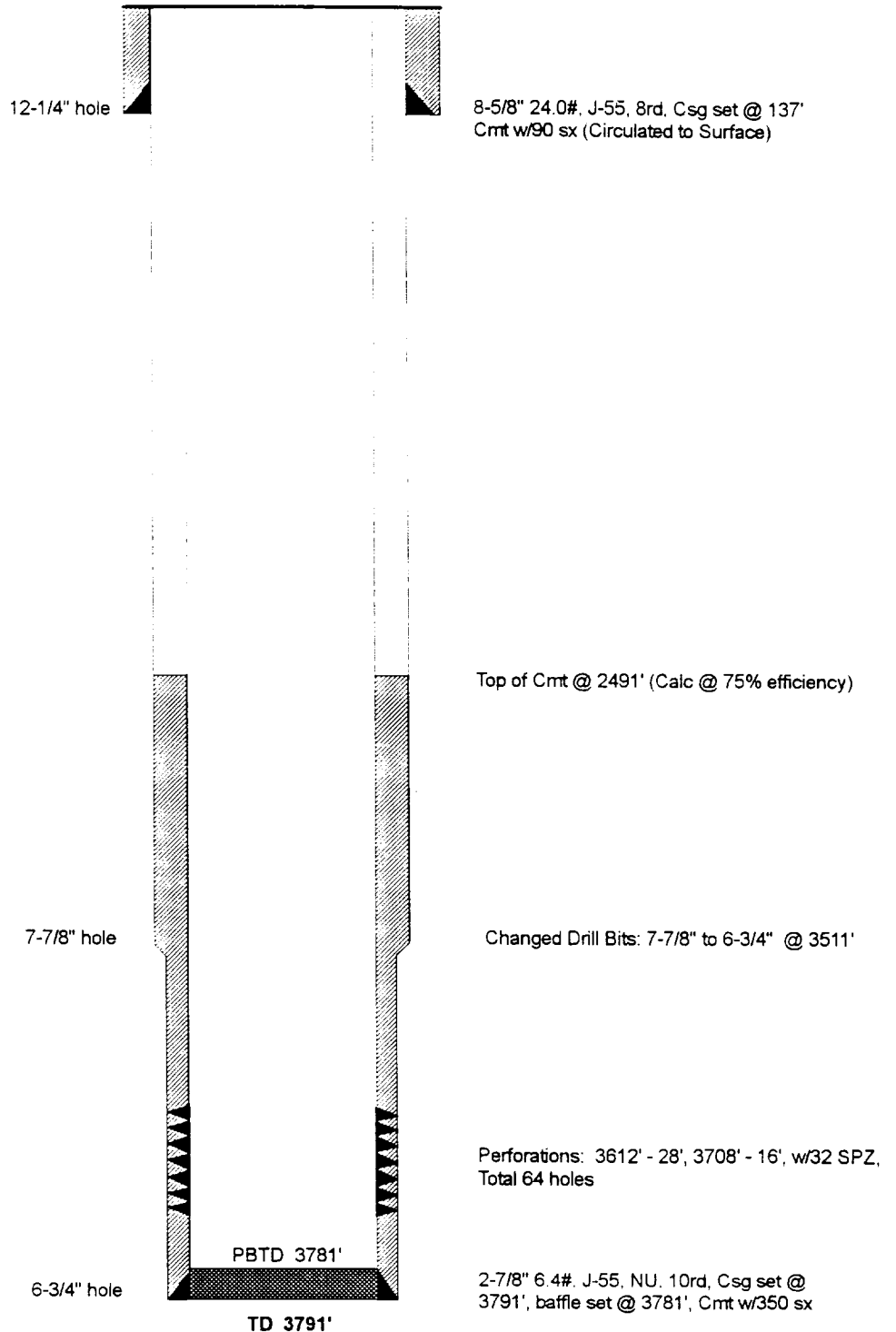
Kirtland @ 2265'

Fruitland @ 2560'

Pictured Cliffs @ 2742'

Lewis @ 2828'

Chacra @ 3608'



# Canyon Largo Unit #164

## PROPOSED

Otero Chacra

SW Section 10, T-25-N, R-6-W, Rio Arriba County, NM

Today's Date: 9/8/94

Spud: 9/3/71

Completed: 10/25/71

Nacimiento @ 520'

12-1/4" hole

570'

8-5/8" 24.0#, J-55, 8rd, Csg set @ 137'  
Cmt w/90 sx (Circulated to Surface)

Plug #3: Surface - 570',  
173 sx Class B Cement

Ojo Alamo @ 2190'

Kirtland @ 2265'

Fruitland @ 2560'

Pictured Cliffs @ 2742'

Lewis @ 2828'

2140'

2315'

2510'

Plug #2: 2140' - 2315',  
101 sx Class B Cement

Top of Cmt @ 2491' (Calc @ 75% efficiency)

Plug #1: 2510' - 3716',  
38 sx Class B Cement

7-7/8" hole

Changed Drill Bits: 7-7/8" to 6-3/4" @ 3511'

Chacra @ 3608'

Perforations: 3612' - 28', 3708' - 16', w/32 SPZ,  
Total 64 holes

6-3/4" hole

PBTD 3781'

TD 3791'

2-7/8" 6.4#, J-55, NU, 10rd, Csg set @  
3791', baffle set @ 3781', Cmt w/350 sx