submitted in lieu of Form 3160-5

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

1. **Type of Well**
   GAS

2. **Name of Operator**
   MERIDIAN OIL

3. **Address & Phone No. of Operator**
   PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. **Location of Well, Footage, Sec., T, R, M**
   990'FSL, 990'FEL, Sec.17, T-26-N, R-10-W, NMPM

5. **Lease Number**
   NM-02874A

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**
   Huerfano Unit

8. **Well Name & Number**
   **Huerfano Unit #104**

9. **API Well No.**
   30-045-05830

10. **Field and Pool**
    Basin Dakota

11. **County and State**
    **San Juan Co, NM**

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

| Type of Submission | Type of Action | |
|---|---|---|
| _X_ Notice of Intent | _X_ Abandonment | ___ Change of Plans |
| | ___ Recompletion | ___ New Construction |
| ___ Subsequent Report | ___ Plugging Back | ___ Non-Routine Fracturing |
| | ___ Casing Repair | ___ Water Shut off |
| ___ Final Abandonment | ___ Altering Casing | ___ Conversion to Injection |
| | ___ Other - | |

**13. Describe Proposed or Completed Operations**

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

RECEIVED
FEB 15 1995
OIL CON. DIV.
DIST. 3

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

Signed _____ (ROS1) Title Regulatory Affairs Date 2/3/95

(This space for Federal or State Office use)
APPROVED BY _____ Title _____ Date _____
CONDITION OF APPROVAL, if any:

APPROVED
FEB 14 1995
DISTRICT MANAGER

NMOCD

# PERTINENT DATA SHEET

| | | | |
|---|---|---|---|
| **WELLNAME:** | Huerfano Unit #104 | **DP NUMBER:**<br>**PROP. NUMBER:** | 53050A<br>007970900 |
| **WELL TYPE:** | Basin Dakota | **ELEVATION:** | **GL:** 6534'<br>**KB:** N/A |
| **LOCATION:** | 990' FSL 990' FEL<br>SE Sec. 17, T26N, R10W<br>San Juan County, New Mexico | **INITIAL POTENTIAL:**<br>**SICP:** July, 1981 | AOF 6,863 MCF/D<br>200 PSIG |
| **OWNERSHIP:** | **GWI:** 61.865922%<br>**NRI:** 46.852851% | **DRILLING:** | **SPUD DATE:** 10-27-58<br>**COMPLETED:** 01-12-59<br>**TOTAL DEPTH:** 6742'<br>**PBTD:** 6698'<br>**COTD:** 6698' |

**CASING RECORD:**

| HOLE SIZE | SIZE | WEIGHT | GRADE | DEPTH | EQUIP. | CEMENT | TOC |
|---|---|---|---|---|---|---|---|
| 12-1/4" | 10-3/4" | 32.75# | S.W. | 363' | - | 200 sx & 50 cf | surface |
| 9-5/8" | 7-5/8" | 26.40# | J-55 | 5974' | DV tool @ 2350'<br>1st Stg @ 5974' | 200 sx<br>230 sx | 1560' (TS)<br>4713' (75%) |
| 6-3/4" | 5-1/2" Liner | 17.0# | J-55 | 5936' - 6741' | - | 300 sx | 5936' (Circ) |
| Tubing | 2-3/8" | 4.7# | J-55 | 6612' | | | |

Ran 1 jt, SN @ 6579', 207 jts 2-3/8", 4.7#, J-55, tbg set @ 6612'. Locator sub @ 5910'.

**FORMATION TOPS:**

| | | | |
|---|---|---|---|
| Nacimiento | Surface | Mesaverde | 3530' |
| Ojo Alamo | 1005' | Gallup | 5565' |
| Kirtland | 1137' | Graneros | 6450' |
| Fruitland | 1748' | Dakota | 6553' |
| Pictured Cliffs | 1998' | Morrison | 6737' |

**LOGGING:** IES, ML, Temp Survey

**PERFORATIONS** (Dakota) 6516' - 24', 6556' - 70', 6578' - 86', 6626' - 36', Total 168 Holes.

(Gallup) 5580' - 5600', 5606' - 14', 5619' - 28', 5636' - 48', 5702' - 14', 5720' - 26', 5758' - 70', 5778' - 94', 5800' - 06', 5824' - 48', 5864' - 74', Total 416 Holes.

**STIMULATION:**
(Dakota) Oil frac DK perf. int. 6626'-36', w/44,520 gal. oil & 45,000# sand. Flush w/12,600 gal.
(Dakota) Oil frac DK perf. int. 6516'-86', w/60,000 gal. oil & 60,000# sand. Flush w/14,700 gal.

(Gallup) Oil frac GP perf. int. 5702'-5874', w/82,141 gal. oil & 85,000# sand. Flush w/13,650 gal.
(Gallup) Oil frac GP perf. int. 5580'-5648', w/60,000 gal. oil & 60,000# sand. Flush w/12,600 gal.

**WORKOVER HISTORY:**
April 1974: Plug back Gallup formation. TIH w/tbg. Dropped fish. Top of fish @ 5904'. Set RBP @ 5894'. Set sqz pkr @ 5400'. Sqz'd GP perfs w/472 cf cmt. WOC 12 hrs. Drl cmt. Test sqz to 1500#, O.K. Retreive RBP. Pulled fish loose. Ran 208 jts, 2-3/8", 4.7#, J-55, tbg set @ 6612' (SN @ 6579', Locator sub @ 5910'). Returned well to production.
Oct. 1970: Removed Rods from Gallup tubing.
Aug. 1959: Ran rods in Gallup tubing.

| **PRODUCTION HISTORY:** | Gas | Oil |
|---|---|---|
| **Cumulative as of Nov. 94:** | 3940.9 MMcf | 57.8 MBo |
| **Current Rate:** | 0 Mcfd | 0 Bopd |

| **DATE OF LAST PRODUCTION:** | Gas | Oil |
|---|---|---|
| Oct., 1989 | 4.03 Mcf/D | 0.65 bbl/D |
| Dec., 1991 | 0 Mcf/D | 3.23 bbl/D |

**PIPELINE:** EPNG

1-31-95

Huerfano Unit #104
Basin Dakota
SE Section 17, T-26-N, R-10-W
San Juan 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/or test rig anchors. Prepare blow pit. Comply to all NMOCD, BLM and Meridian safety rules and regulations.

2. MOL and RU daylight pulling unit. Blow well down; kill with water if necessary. ND wellhead and NU BOP and stripping head; test BOP.

3. Pull seal assembly with locator latch from Baker Model "D" Packer at 5909'; POH and tally 2-3/8", 4.7#, tubing (208 joints @ 6612', 186 joints above and 22 joints below seal assembly); LD seal assembly and visually inspect the tubing. If necessary, PU 2" workstring.

4. **Plug #1 (Dakota Perforations, 6686' - 6466'):** RIH with open ended tubing to 6686' or as deep as possible. Pump 30 bbls water. Mix 49 sx Class B cement and spot a balanced plug from 6686' to 6466' over Dakota perfs. POH to 5000' and WOC. RIH and tag cement. POH to 6024'. Load well with water and circulate clean. Pressure test casing to 500#.

5. **Plug #2 (7-5/8" casing shoe and 5-1/2" liner top, 6024' - 5886'):** Mix 33 sx Class B cement and set a balanced plug inside casing to cover 7-5/8" casing shoe and 5-1/2" liner top from 6024' to 5886'. POH 5615'.

6. **Plug #3 (Gallup top, 5615' - 5515'):** Mix 34 sx Class B cement and set a balanced plug inside casing from 5615' to 5515' to cover Gallup top. POH with tubing. Pressure test casing to 500#.

7. **Plug #4 (Mesaverde top, 3580' - 3480'):** Perforate 4 squeeze holes at 3580'. If casing pressure tested, establish rate into squeeze holes. PU 7-5/8" cement retainer and RIH; set at 3530'. Pressure test tubing to 1000#. Establish rate into squeeze holes. Mix and pump 66 sx Class B cement, squeeze 32 sx cement outside casing from 3580' to 3480' and leave 34 sx inside casing to cover Mesaverde top to 3480'. Pull above cement and load well with water; circulate clean. POH to 2048'.

8. **Plug #5 (Pictured Cliffs and Fruitland tops, 2048' - 1698'):** Mix 90 sx Class B cement and spot a balanced plug inside casing from 2048' to 1698' to cover Pictured Cliffs and Fruitland tops. POH with tubing and setting tool. Pressure test casing to 500#.

9. **Plug #6 (Kirtland and Ojo Alamo tops, 1187' - 955'):** Perforate 4 squeeze holes at 1187'. If casing tested, establish rate into squeeze holes. PU 7-5/8" cement retainer and RIH; set at 1087'. Establish rate into squeeze holes. Mix and pump 138 sx Class B cement, squeeze 74 sx cement outside casing from 1187' to 955' and leave 64 sx cement inside casing from 1187' to 955' to cover Kirtland and Ojo Alamo tops. POH and LD tubing and setting tool.

10. **Plug #7 (Surface):** Perforate 4 squeeze holes at 413'. Establish circulation out bradenhead valve. Mix approximately 167 sx Class B cement and pump down 7-5/8" casing, circulate good cement out bradenhead valve. Shut in well and WOC.

11. ND BOP and cut off casing below surface casing flange. Install P&A marker with cement to comply with regulations. RD, Move off location, cut off anchors and restore location.

Recommended: _____
Operations Engineer

Approval: _____
Production Superintendent

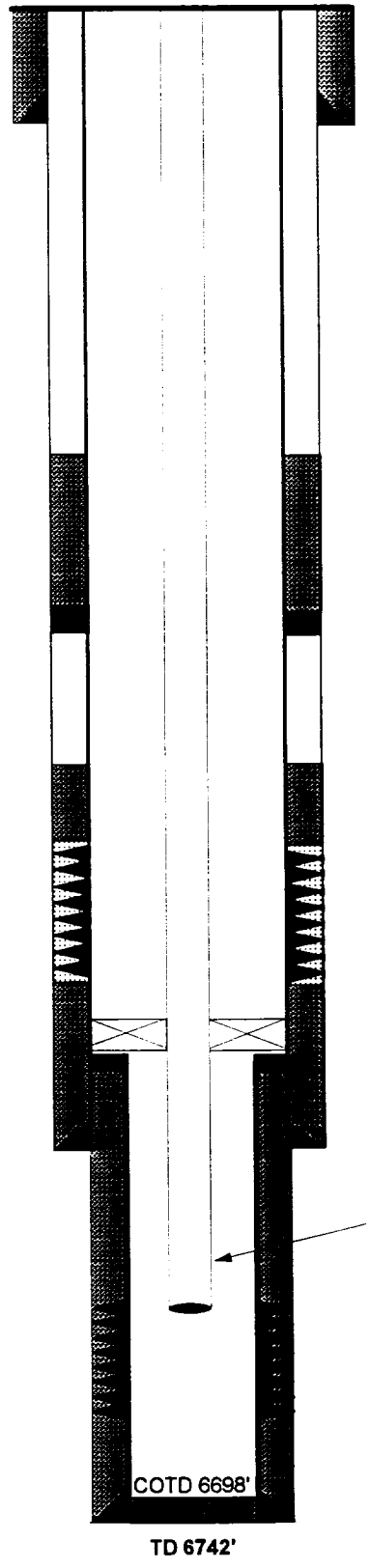
# *Huerfano Unit #104*

***Current***

***Basin Dakota***

**SE Section 17, T-26-N, R-10-W, San Juan County, NM**

Today's Date: 1/31/95
Spud: 10/27/58
Completed: 1/12/59



12-1/4" Hole

10-3/4", 32.75#, Armco S.W., Csg set @ 363',
Cmt w/200 sx & 50 cf (Circulated to Surface)

## Workover History

**August 1959** - Ran rods and pump in Gallup tbg.
**October 1970** - Removed rods from Gallup tbg.
**April 1974** - Plug Gallup Perfs. Pull 2" Gallup tbg; Model "D" seal assembly stuck at 5904'; fished and milled, did not recover; set RBP @ 5894' ,squeezed Gallup perfs with 400 sxs cmt; drll out cmt; test csg; pull RBP; recovered DK fish; ran 2 3/8" tbg and seal assmbly in Model "D" Prk @ 5911'.

Ojo Alamo @ 1005'

Kirtland @ 1137'

Top of Cmt @ 1560' (TS)

Fruitland @ 1748'

Pictured Cliffs @ 1998'

DV Tool @ 2350',
Cmt 2nd Stg w/200 sx

Mesaverde @ 3530'

Top of Cmt @ 4713' (Calc, 75%)

Gallup @ 5565'

Gallup Perforations: 5580'- 5864',
Total 416 Holes. Sqz'd off w/400 sx cmt

Model "D" Pkr @ 5909'

Liner Top @ 5936'
TOC 5936' (TS)

9-5/8" Hole

7-5/8", 26.4#, N-80 & J-55, Csg @ 5974',
Cmt w/230 sx

Ran 208 jts, 2-3/8", 4.7#, J-55, tbg set @ 6612',
(SN @ 6579', Locator sub @ 5910')

Graneros @ 6450'

Dakota @ 6553'

Dakota Perforations: 6516' - 6636',
Total 168 Holes

Morrison @ 6737'

COTD 6698'

6-3/4" Hole

5-1/2", 17.0#, J-55, Liner set @ 6741',
Cmt w/300 sx

**TD 6742'**

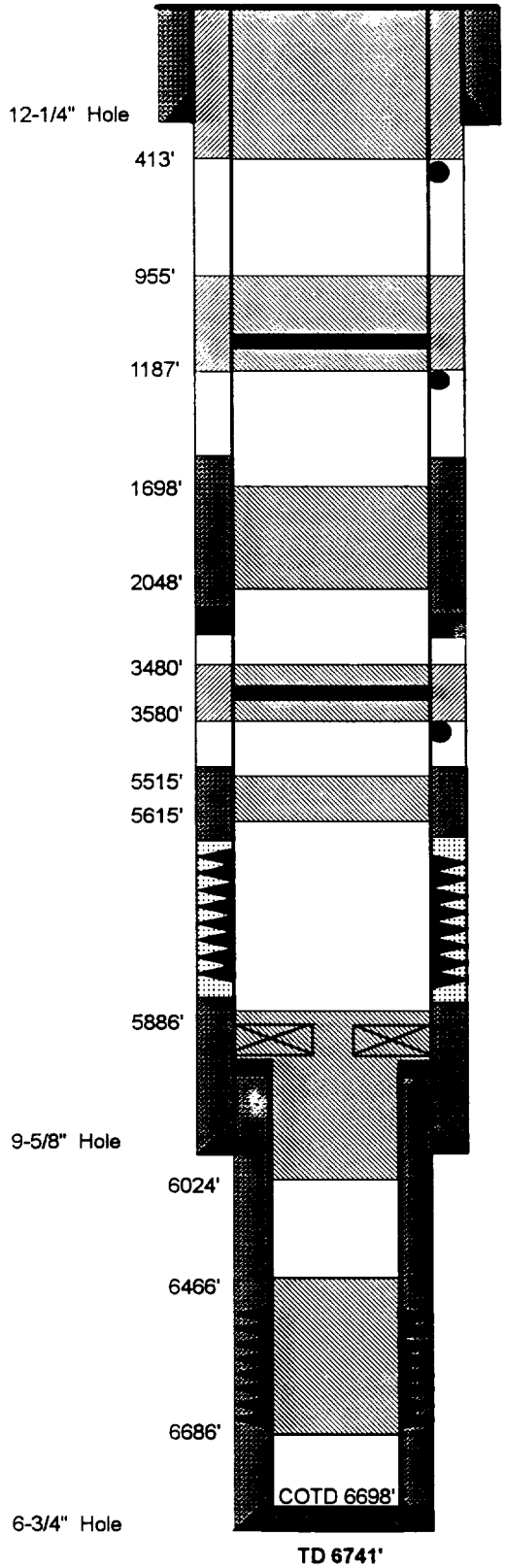
# *Huerfano Unit #104*

***Proposed P & A***

***Basin Dakota***

**SE Section 17, T-26-N, R-10-W, San Juan County, NM**

Today's Date: 1/31/95
Spud: 10/27/58
Completed: 1/12/59




Ojo Alamo @ 1005'

Kirtland @ 1137'

Fruitland @ 1748'

Pictured Cliffs @ 1998'

Mesaverde @ 3530'

Gallup @ 5565'

Graneros @ 6450'

Dakota @ 6553'

Morrison @ 6737'

**Plug #7:** 413' - Surface, Cmt w/167 sx Class B cmt

10-3/4", 32.75#, Armco S.W., Csg set @ 363', Cmt w/200 sx & 50 cf (Circulated to Surface)

**Perforate @ 413'**

**Plug #6:** 1187' - 955', Cmt w/138 sx cmt, 74 sx outside & 64 sx inside csg

**Cement Rt @ 1087'**

**Perforate @ 1187'**

Top of Cmt @ 1560' (TS)

**Plug #5:** 2048' - 1698', Cmt w/90 sx Class B cmt

DV Tool @ 2350', Cmt 2nd Stg w/200 sx

**Plug #4:** 3580' - 3480', Cmt w/66 sx cmt, 32 sx outside & 34 sx inside csg

**Cement Rt @ 3530'**

**Perforate @ 3580'**

Top of Cmt @ 4713' (Calc. 75%)

**Plug #3:** 5615' - 5515', Cmt w/34 sx Class B cmt

Gallup Perforations: 5580' - 5864', Total 416 Holes, Sqz'd off w/400 sx cmt

Model "D" Pkr @ 5909'
Liner Top @ 5936'
TOC 5936' (TS)

**Plug #2:** 6024' - 5886', Cmt w/33 sx Class B cmt

7-5/8", 26.4#, N-80 & J-55, Csg @ 5974', Cmt w/230 sx

**Plug #1:** 6686' - 6466', Cmt w/49 sx Class B cmt

Dakota Perforations: 6516' - 6636', Total 168 Holes

5-1/2", 17.0#, J-55, Liner set @ 6741', Cmt w/300 sx