

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

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

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| WELL API NO.<br>30-045-27342                                                                        |
| 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 6. State Oil & Gas Lease No.                                                                        |
| 7. Lease Name or Unit Agreement Name<br>Santa Fe 20                                                 |
| 8. Well No.<br>4                                                                                    |
| 9. Pool name or Wildcat<br>Snake Eyes Dakota <i>D</i>                                               |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>6,578' GL                                     |

**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" (FORM C-101) FOR SUCH PROPOSALS.)

|                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Type of Well:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER                                                                                                           |
| 2. Name of Operator<br>Merrion Oil & Gas Corp.                                                                                                                                                                     |
| 3. Address of Operator<br>P. O. Box 840, Farmington, N.M. 87499                                                                                                                                                    |
| 4. Well Location<br>Unit Letter <u>I</u> : <u>2310</u> Feet From The <u>South</u> Line and <u>990</u> Feet From The <u>East</u> Line<br>Section <u>20</u> Township <u>21N</u> Range <u>8W</u> NMPM San Juan County |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.)<br>6,578' GL                                                                                                                                                    |

11. 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 type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/>                | ALTERING CASING <input type="checkbox"/>      |
| TEMPORARILY ABANDON <input type="checkbox"/>                                        | CHANGE PLANS <input type="checkbox"/>     | COMMENCE DRILLING OPERATIONS <input type="checkbox"/> | PLUG AND ABANDONMENT <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/>                                       |                                           | CASING TEST AND CEMENT JOBS <input type="checkbox"/>  |                                               |
| OTHER: Complete Dakota and remedial cementation <input checked="" type="checkbox"/> |                                           | OTHER: <input type="checkbox"/>                       |                                               |

**RECEIVED JUN 15 1990 OIL CON. DIV. DIST. 3**

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE TITLE 103

- Requests approval to complete the Dakota and conduct remedial cementation as follows:
1. Drill out 4.5" casing, clean out to 4,900'. (Schematics attached)
  2. Run 2-7/8" liner to 4,900' and cement with 263 sx Class "G" (366 cu ft). Liner top = 4,210'.
  3. Perforate and test Dakota interval.  
4,620' - 4,672' gross interval
  4. Stimulate if necessary.
  5. Set bridge plug above Dakota and place cement across lower Mesaverde to protect from corrosion. Shoot squeeze holes = 2,240' and 2,750'. Set retainer @ 2,700' and and circulate 185 sx "G" (226 cu ft) outside pipe.
  6. Drill out and run production tubing.

This work is part of original completion. Well was originally drilled as an Entrada test but plugged back.

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

SIGNATURE T. Greg Merrion TITLE Production Engineer DATE 6/14/90  
TYPE OR PRINT NAME T. Greg Merrion TELEPHONE NO. 505-327-9801

(This space for State Use)

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT III DATE JUN 10 1990  
CONDITIONS OF APPROVAL, IF ANY:

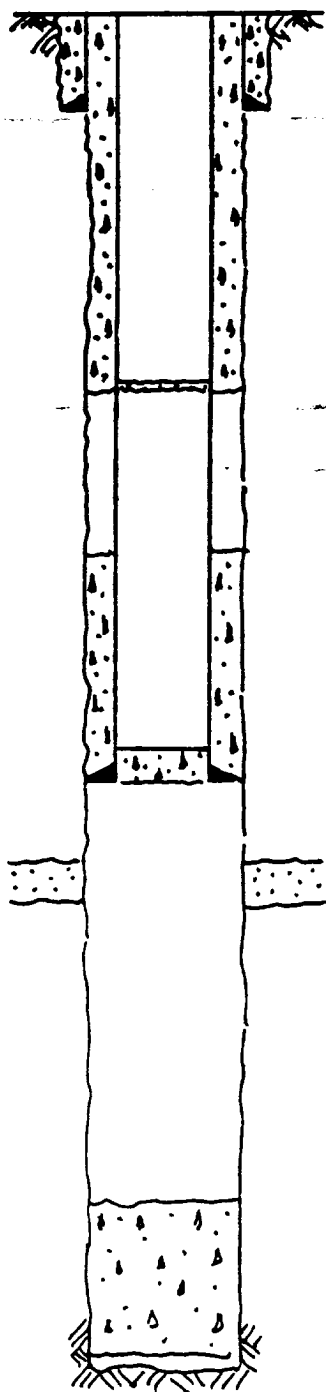
\* MERRION OIL & GAS \*

WELLBORE SCHEMATIC  
(Prior to Completion)

Well: Santa Fe 20 No. 4  
Field: Snake Eyes Dakota

Location: 2310' FSL & 990' FEL  
Sec. 20, T21N, R8W  
San Juan Co, New Mexico  
Operator: Merrion Oil & Gas

Elevation: 6,588' KB  
6,576' GL



TOC @ Surface  
Surf Hole size- 12 1/4"

9 5/8" 36# Surface @ 223'KB w/ 160sx

TOC 2nd Stage @ Surface

Hole size- 8 3/4"

DV tool @ 2,233'KB  
w/450sx 'G'2xd79,  
50sx'G'Neat

TOC @ 3,275'Estimated

Float @ 4,252'KB

4.5" 11.6# @4,296'KB w/  
352 sx 'G'2% gel

Dakota Pay 4,583'-4,610'KB  
(DST 4587-97'KB)

Cmnt Plug (75sx) 5,690'-5,490'KB

TD @ 5,699' KB

Capacities: 2 3/8" Tbg -  
4 1/2" 11.6#Csg-  
4.5 x 2 3/8" Annulus -

| Tops       | Depth   |
|------------|---------|
| Pic Cliffs | Surface |
| Cliffhouse | 875     |
| Pt Lookout | 2,590   |
| Mancos     | 2,692   |
| Gallup     | 3,285   |
| Dakota     | 4,582   |
| Todilto    | 5,589   |
| Entrada    | 5,620   |

0.00387 Bbl/Ft  
0.0155 Bbl/Ft  
0.0101 Bbl/Ft

4/16/1990  
File: SF204.sch

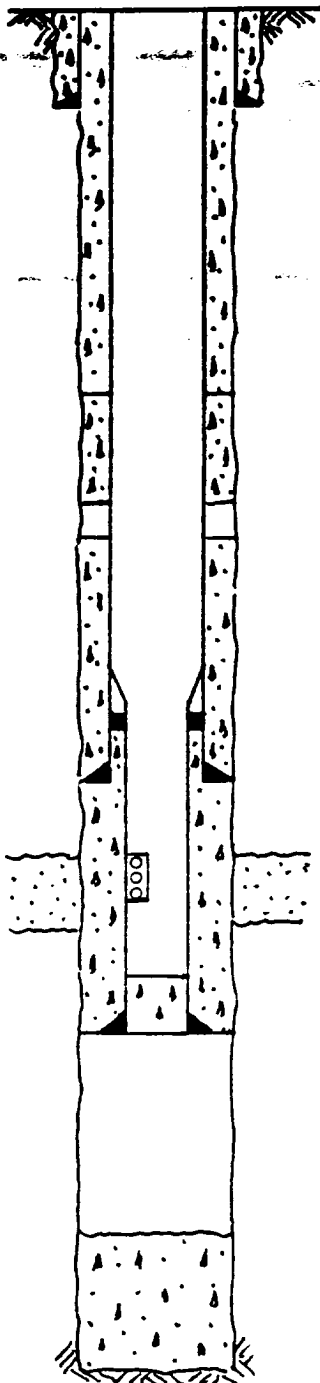
**\* MERRION OIL & GAS \***

**WELLBORE SCHEMATIC  
(After Completion)**

Well: Santa Fe 20 No. 4  
Field: Snake Eyes Dakota

Location: 2310' FSL & 990' FEL  
Sec. 20, T21N, R8W  
San Juan Co, New Mexico  
Operator: Merrion Oil & Gas

Elevation: 6,588' KB  
6,576' GL



TOC @ Surface  
Surf Hole size- 12 1/4"  
9 5/8" 36# Surface @ 223' KB w/ 160sx  
TOC 2nd Stage @ Surface  
Hole size- 8 3/4"

DV tool @ 2,233' KB  
w/450sx 'G' 2 1/2 inch, 50sx 'G' Neat

TOC @ 3,275' Estimated

Float @ 4,252' KB

4.5" 11.6# @ 4,296' KB w/  
352 sx 'G' 2% gel

Dakota Perfs 4,585'-4,594' KB

2 7/8" liner @ 4,900' KB w/ 263 sx G

Cmnt Plug (75sx) 5,690'-5,490' KB

TD @ 5,699' KB

| Tops       | Depth   |
|------------|---------|
| Pic Cliffs | Surface |
| Cliffhouse | 875.0   |
| Pt Lookout | 2590    |
| Mancos     | 2692    |
| Gallup     | 3285    |
| Dakota     | 4582    |
| Todilto    | 5589    |
| Entrada    | 5,620.0 |

Capacities: 2 3/8" Tbg - 0.00387 Bbl/Ft  
4 1/2" 11.6#Csg- 0.0155 Bbl/Ft  
4.5 x 2 3/8" Annulus - 0.0101 Bbl/Ft