

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Form approved  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL GAS  
WELL WELL X DRY Other

b. TYPE OF COMPLETION:  
NEW WORK DEEP- PLUG DIFF.  
WELL OVER X EN BACK RESVR. X Other

2. NAME OF OPERATOR

CAULKINS OIL COMPANY

3. ADDRESS OF OPERATOR

P.O. BOX 340  
BLOOMFIELD, NM 87413

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1165' F/S 1025' F/W

At top prod. interval reported below

At total depth

14. PERMIT NO.

30-039-25690

DATE ISSUED

6-6-97

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

15. DATE SPUNDED

9-14-97

16. DATE T.D. REACHED

11-13-98

17. DATE COMPL. (Ready to prod.)

12-31-97

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

6917 GR

19. ELEV. CASINGHEAD

6917 GR

20. TOTAL DEPTH, MD & TVD

7565'

21. PLUG, BACK T.D., MD & TVD

7565'

22. IF MULTIPLE COMPL.  
HOW MANY\*

TWO

23. INTERVALS  
DRILLED BY

→

ROTARY TOOLS

0' - 7565'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*

4647' to 5534' Mesa Verde

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE OF ELECTRIC AND OTHER LOGS RUN

GSL, Density, Induction

27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT, LB/FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD        | AMOUNT PULLED |
|-------------|----------------|----------------|-----------|-------------------------|---------------|
| 9 5/8"      | 36#            | 321'           | 12 1/4"   | 150 sacks (180 cu. ft.) |               |
| 5 1/2"      | 15.5# & 17#    | 7565'          | 7 7/8"    | 1320 (2172.2 cu. ft.)   |               |
|             |                |                |           |                         |               |
|             |                |                |           |                         |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE    | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|---------|----------------|-----------------|
|      |          |             |               |             | 2 1/16" | 7468'          | 3955'           |
|      |          |             |               |             |         |                |                 |
|      |          |             |               |             |         |                |                 |

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

Twenty .32 holes at following depths:

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 5534' | 5337' | 5091' | 4782' | 4684' |
| 5464' | 5333' | 4863' | 4739' | 4677' |
| 5574' | 5103' | 4853' | 4725' | 4655' |
| 5371' | 5096' | 4788' | 4703' | 4647' |

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED                         |
|---------------------|----------------------------------------------------------|
| 4647' - 5534'       | 101,599# 20/40 Brady sand and<br>2075 bbls nitrogen foam |
|                     |                                                          |
|                     |                                                          |

33. \* PRODUCTION

|                       |                 |                                                                        |                         |            |              |                                    |                 |
|-----------------------|-----------------|------------------------------------------------------------------------|-------------------------|------------|--------------|------------------------------------|-----------------|
| DATE FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) |                         |            |              | WELL STATUS (Producing or shut-in) |                 |
|                       |                 |                                                                        |                         |            |              | Shut-in                            |                 |
| DATE OF TEST          | HOURS TESTED    | CHOKE SIZE                                                             | PROD'N. FOR TEST PERIOD | OIL - BBL. | GAS - MCF.   | WATER - BBL.                       | GAS - OIL RATIO |
|                       |                 |                                                                        | →                       |            |              |                                    |                 |
| FLOW. TUBING PRESS.   | CASING PRESSURE | CALCULATED<br>24-HOUR RATED                                            | OIL - BBL.              | GAS - MCF. | WATER - BBL. | OIL GRAVITY API (CORR.)            |                 |
|                       |                 | →                                                                      |                         |            |              | ACCEPTED FOR RECORD                |                 |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

DEC 11 1998

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Robert I. Vargues

TITLE

Superintendent

DATE

November 19, 1998

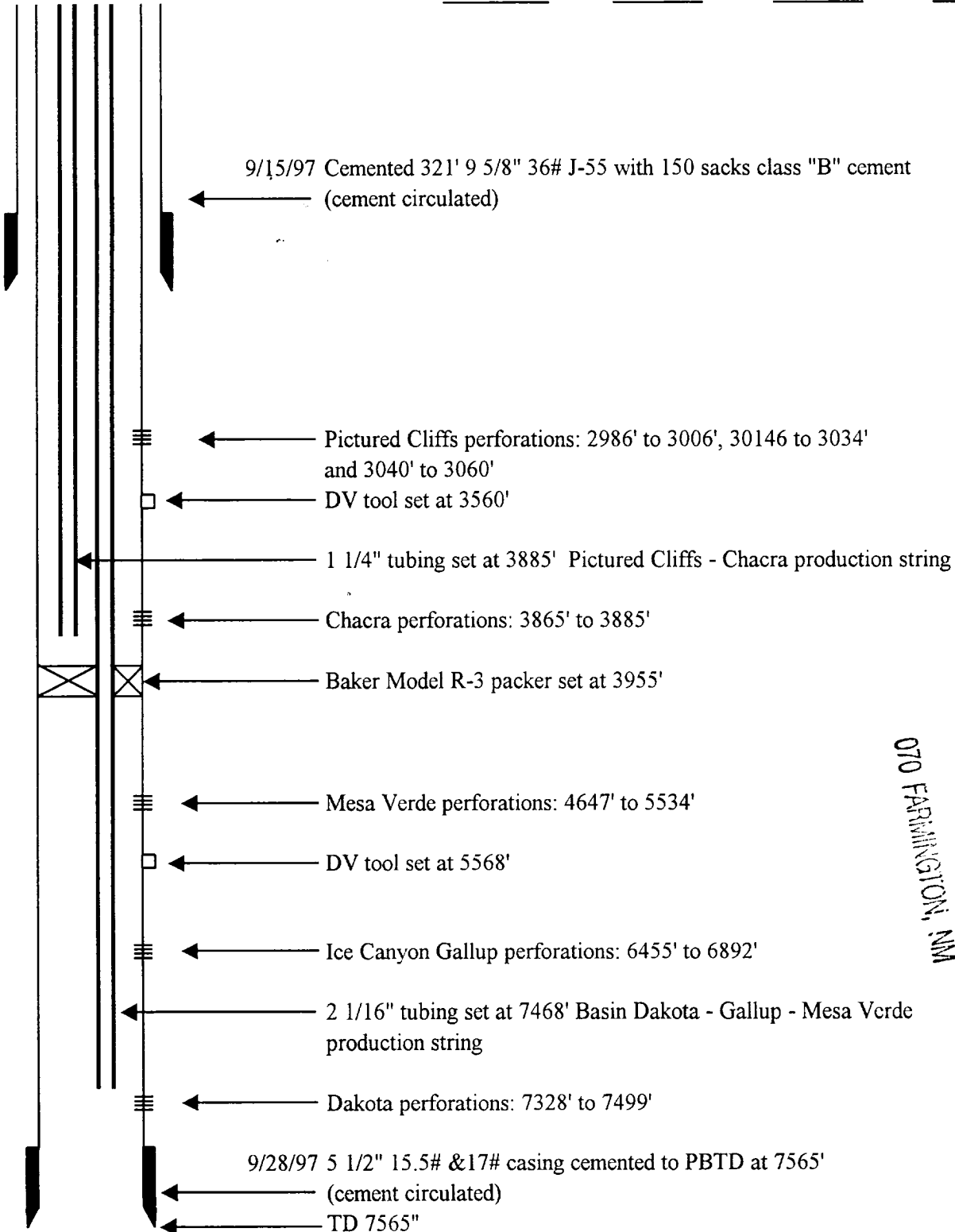
37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

| FORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TOP     | BOTTOM | DESCRIPTION, CONTENTS, ETC. |  | NAME            | MEAS. DEPTH | TRUE DEPTH |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|-----------------------------|--|-----------------|-------------|------------|-------|---------|-------|-----|------|-------|-----|----|-------|------|----|-------|------|--------|-------|-------|----|-------|-------|--------|-------|-------|----|-------|-------|----|-------|-------|--------|--|-------|--------|--|-------|--------|--|-------|----|--|-------|------|--|-------|------|--|-------|------|--|-------|------|--|-------|------|--|
| Alamo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2418'   | 2464'  | Water Sands                 |  | Alamo           | 2418'       |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| Pictured Cliffs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3000'   | 3043'  | Gas Sand                    |  | Pictured Cliffs | 3000'       |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| Chacra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3878'   | 3908'  | Gas Sand                    |  | Chacra          | 3878'       |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| Mesa Verde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4658'   | 5437'  | Gas Sand                    |  | Mesa Verde      | 4658'       |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| Gallup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6452'   | 6990'  | Gas Sand                    |  | Gallup          | 6452'       |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| Dakota                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7315'   | 7504'  | Gas Sand                    |  | Dakota          | 7315'       |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| <div>Hole Deviation Report</div> <table><tr><th>Depth</th><th>Degrees</th><th>Depth</th></tr><tr><td>88'</td><td>3/4°</td><td>5084'</td></tr><tr><td>77'</td><td>1°</td><td>5241'</td></tr><tr><td>325'</td><td>1°</td><td>5641'</td></tr><tr><td>652'</td><td>1 1/4°</td><td>5896'</td></tr><tr><td>1153'</td><td>3°</td><td>6083'</td></tr><tr><td>1247'</td><td>2 3/4°</td><td>6583'</td></tr><tr><td>1372'</td><td>3°</td><td>7083'</td></tr><tr><td>1496'</td><td>3°</td><td>7542'</td></tr><tr><td>1683'</td><td>2 1/2°</td><td></td></tr><tr><td>1901'</td><td>2 3/4°</td><td></td></tr><tr><td>2215'</td><td>2 3/4°</td><td></td></tr><tr><td>2459'</td><td>2°</td><td></td></tr><tr><td>2873'</td><td>3/4°</td><td></td></tr><tr><td>3360'</td><td>3/4°</td><td></td></tr><tr><td>3867'</td><td>3/4°</td><td></td></tr><tr><td>4081'</td><td>3/4°</td><td></td></tr><tr><td>4588'</td><td>3/4°</td><td></td></tr></table> |         |        |                             |  |                 |             |            | Depth | Degrees | Depth | 88' | 3/4° | 5084' | 77' | 1° | 5241' | 325' | 1° | 5641' | 652' | 1 1/4° | 5896' | 1153' | 3° | 6083' | 1247' | 2 3/4° | 6583' | 1372' | 3° | 7083' | 1496' | 3° | 7542' | 1683' | 2 1/2° |  | 1901' | 2 3/4° |  | 2215' | 2 3/4° |  | 2459' | 2° |  | 2873' | 3/4° |  | 3360' | 3/4° |  | 3867' | 3/4° |  | 4081' | 3/4° |  | 4588' | 3/4° |  |
| Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Degrees | Depth  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 88'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3/4°    | 5084'  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 77'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1°      | 5241'  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 325'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1°      | 5641'  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 652'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 1/4°  | 5896'  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 1153'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3°      | 6083'  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 1247'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 3/4°  | 6583'  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 1372'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3°      | 7083'  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 1496'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3°      | 7542'  |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 1683'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 1/2°  |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 1901'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 3/4°  |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 2215'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 3/4°  |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 2459'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2°      |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 2873'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3/4°    |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 3360'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3/4°    |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 3867'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3/4°    |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 4081'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3/4°    |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |
| 4588'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3/4°    |        |                             |  |                 |             |            |       |         |       |     |      |       |     |    |       |      |    |       |      |        |       |       |    |       |       |        |       |       |    |       |       |    |       |       |        |  |       |        |  |       |        |  |       |    |  |       |      |  |       |      |  |       |      |  |       |      |  |       |      |  |

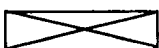
# CAULKINS OIL COMPANY

## REMARKS

DATE \_\_\_\_\_ LEASE BREECH WELL NO. 377  
 FIELD BASIN DAKOTA - GALLUP - MESA VERDE & PICTURED CLIFFS - OTERO CHACRA  
 UNIT LTR. M SEC. 23 TWP. 26N RGE. 7W



RECEIVED  
 BLM  
 98 NOV 25 AM 11:54  
 070 FARMINGTON, NM



BRIDGE PLUG



PACKER



PERFORATIONS