

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

| | | | |
|---|--|---|--|
| 1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO CONT 145 | |
| b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> | | 6 IF INDIAN, ALLOTTEE OR TRIBE NAME JICARILLA | |
| 2. NAME OF OPERATOR Conoco Inc. 5073 | | 7 UNIT AGREEMENT NAME | |
| a. ADDRESS AND TELEPHONE NO 10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500 915-686-5794 | | 8 FARM OR LEASE NAME WELL NO 1823 JICARILLA K #17A1 | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements *) At surface 790' FSL & 1850' FEL At proposed prod. zone 790' FNL & 1850' FEL | | 9. API WELL NO 30-039-25842 | |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* | | 10. FIELD AND POOL, OR WILDCAT 72319 71599 Blanco MV/Basin Dakota | |
| 5. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to nearest drlg. unit line, if Any) | | 11. SEC. T., R., M. OR BLK. AND SURVEY OR AREA 0 Sec. 12, T25N, R5W | |
| 8. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. | | 12 COUNTY OR PARISH Rio Arriba | |
| 16 NO OF ACRES IN LEASE | | 13. STATE NM | |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL 5/320 5/320 | | | |
| 19. PROPOSED DEPTH 8429' | | 20. ROTARY OR CABLE TOOLS Rotary | |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc) 7379' GR | | 22. APPROX. DATE WORK WILL START* 4/15/98 | |

23 PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | GRADE, SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|-----------------------|-----------------|---------------|--------------------|
| 11" | K-55, 8-5/8" | 24# | 300' | 130 sxs, circ. |
| 7-7/8" | K-55, 5-1/2" | 15.5# | 8129' | 1180 sxs, circ. |
| | | | | |

It is proposed to drill vertical wellbore to be downhole commingled in the Blanco Mesaverde and Basin Dakota Pools following the acquisition of sufficient production test data for allocation purposes. A downhole commingling application will be filed with the BLM and NMOCD prior to commingling. A NOS was filed 10/31/97. This well will drilled and equipped according to the following attachments:

1. Well Location & Acreage Dedication Plat (C-102) and other associated plats.
2. Proposed Well Plan Outline.
3. Cementing Plan.
4. Blowout Preventer Hookup.
5. Surface Use Plan with Production Facility Layout.
6. Pipeline survey plat.

This application includes ROW's for the wellpad and access road.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

| | | |
|--|--|---------------------------|
| 24. SIGNED <u>[Signature]</u> | TITLE <u>Mike L. Mankin</u> <u>Right-of-Way Agent</u> | DATE <u>March 4, 1998</u> |
| (This space for Federal or State office use) | | |

PERMIT NO _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY (Original Signed) HECTOR A. VILLALOBOS TITLE Asst. Field Manager DATE APR 23 1998
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I
PO Box 1990, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

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

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form 1-11
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | | | |
|-------------------------------------|--|--|--|---|------------------------------|
| 1 API Number <u>30-039-25842</u> | | 2 Pool Code <u>72319/71599</u> | | 3 Pool Name <u>Blanco Mesaverde/Basin Dakota</u> | |
| 4 Property Code <u>18023</u> | | 5 Property Name <u>JICARILLA K</u> | | | 6 Well Number <u>175M</u> |
| 7 GRID No. <u>005073</u> | | 8 Operator Name <u>CONOCO, INC.</u> | | | 9 Elevation <u>7379'</u> |

10 Surface Location

| | | | | | | | | | |
|---------------|-----------|------------|-----------|---------|---------------|------------------|---------------|----------------|-------------------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| <u>0</u> | <u>12</u> | <u>25N</u> | <u>5W</u> | | <u>790</u> | <u>South</u> | <u>1850</u> | <u>East</u> | <u>RIO ARriba</u> |

11 Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| | | | | | | | | | |

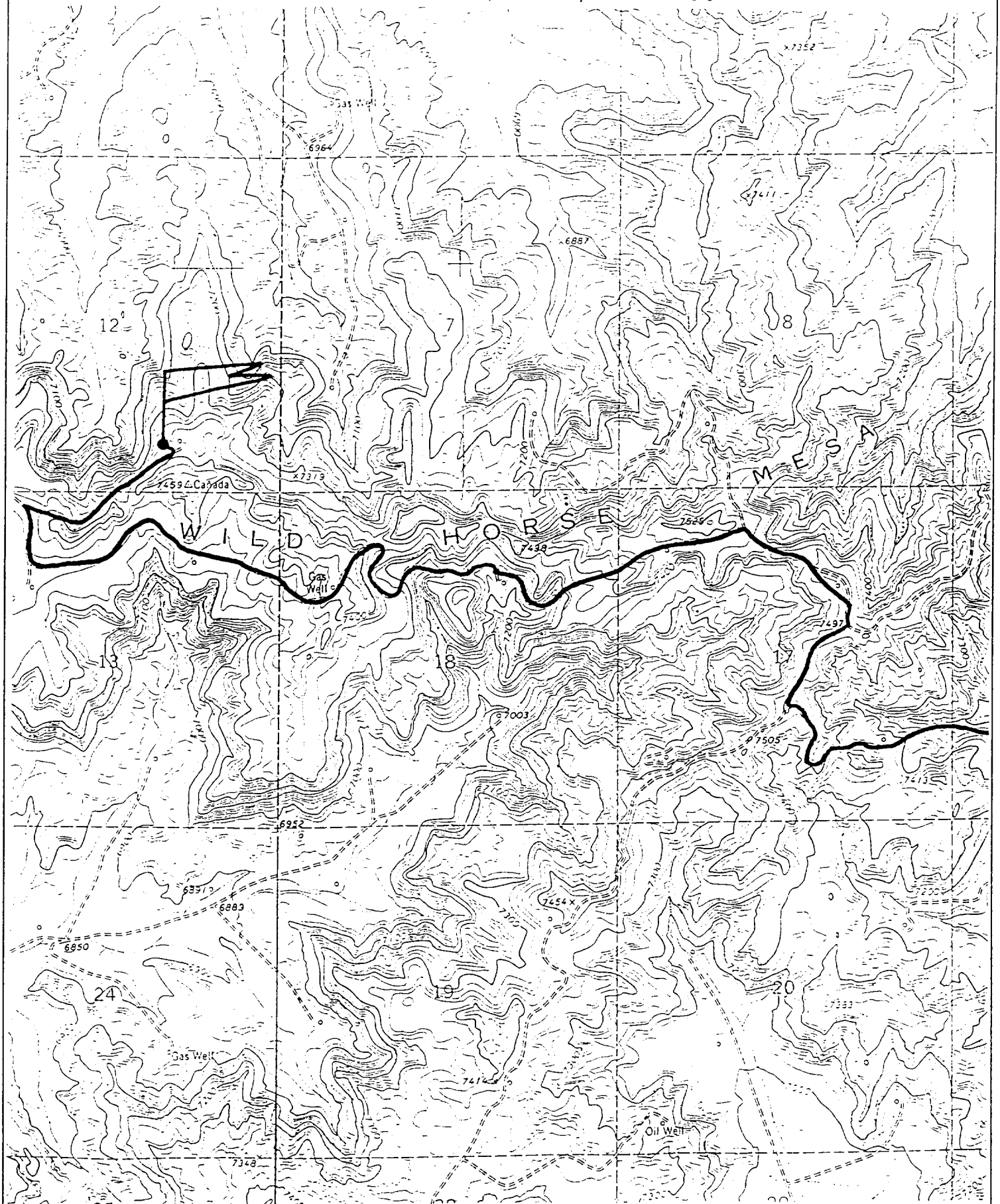
| | | | |
|----------------------------------|--------------------|-----------------------|--------------|
| 12 Dedicated Acres <u>320</u> | 13 Joint or Infill | 14 Consolidation Code | 15 Order No. |
| | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | | | | | |
|----------|--|----------|--|--|--|
| 16 | | 5270.10' | | 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <u>Mike L. Mankin</u> Signature <u>Mike L. Mankin</u> Printed Name <u>Right-of-Way Agent</u> Title <u>3398</u> Date | |
| 5280.00' | | 12 | | 5280.00' | |
| 5266.80' | | 790' | | 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. <u>NOVEMBER 19, 1997</u> Date of Survey <u>NEALE C. EDWARDS</u> Signature and Seal of Professional Surveyor <u>6857</u> Certificate No. | |

CONOCO, INC. JICARILLA K #17E

790' FSL & 1850' FEL SECTION 12, T25N, R5W
RIO ARriba COUNTY, N.M.P.M., NEW MEXICO



PROPOSED WELL PLAN OUTLINE

WELL NAME: **Jicarilla K No. 17E**
 LOCATION: **SEC 12, T-25N, R-5W, RIO ARriba CO., NM**

EST. GL = 7379
 EST. KB = 7392

| TVD IN | FORMATION TOPS & TYPE | DRILLING PROBLEMS | TYPE OF FORMATION EVALUATION | HOLE SIZE | CASING SIZE | DEPTH | FRAC GRAD. psi/ft | FORMATION PRESSURE PSI | MUD WT | TYPE | DAYS |
|-----------|---|---|------------------------------------|--------------|--|-------|-------------------------|--|--|-------------------------------------|------|
| 1000 | MD | | | | | | | | | | |
| 0 | | | | 11" | 8-5/8" 24# K-55 ST&C @ 300' | | | NORMAL | 8.4 - 8.8# SPUD MUD | | 1 |
| | | | | 7-7/8" | CIRC CMT | | | | 8.4 - 8.8# GEL/POLYMER MAINTAIN MW AS LOW AS POSSIBLE | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | OJAM @ 3158' FRLD @ 3332' PCCF @ 3700' LEWS @ 3848' | POSSIBLE WATERFLOW POSSIBLE GAS FLOW POSSIBLE LOST RETURNS POSSIBLE DIFFERENTIAL STICKING | | | | | | 432 PSI 360 PSI | | CONTROL FLUID LOSS PRIOR TO OJAM | |
| 4 | | | | | | | | | | | |
| 5 | CHRA @ 4806' CLFH/MV @ 5397' MENP @ 5411' | | | | DV TOOL SET @ 4200' (CONTINGENT ON LOST CIRCULATION) | | | 400 PSI | | | |
| 6 | PTLK @ 5922' MNCS @ 6283' | POSSIBLE SEVERE LOST RETURNS | | | DV TOOL SET @ 6225' (50'-100' ABOVE MNCS) CMT TO DV TOOL @ 4200' | | 0.5 | 457 PSI | | | |
| 7 | U. GLLP @ 6946' M. GLLP @ 7216' SNST @ 7523' GRHN @ 7822' GRRS DKOT @ 7878' | | | | | | | | | | |
| 8 | PAGU @ 8035' T.O. @ 8129' NOTE: PERMIT TO 8429' | POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE IN DEEP DAKOTA | CASED HOLE LOGS | 7-7/8" | 5-1/2" 15.5# K-55 LTC @ 8129' CMT TO DV TOOL AT TOP OF MNCS | | 0.5 | 715 PSI BHP - 2500 PSI BHT = 175 deg F | ADD 2% KCl @ GRRS DKOT 8.4 - 8.8# GEL/POLYMER | | 16 |

DATE 02/27/98

APPROVALS:

PREPARED: Ricky Joyce/Ted Kelly
 DRILLING ENGINEER

[Signature]
 RES. ENGINEER
[Signature]
 PROD. ENGINEER

GEOLOGIST

DRILLING MGR.

10:13 AM