| (December 1990)   | UNIT<br>DEPARTMEN  |   | ROPERTY NO.   |  | <b>≈\$TE*</b>   | Form appro  | oved.  |
|---|--|---|---|--|---|---|--|
|   |  |   | DOL CODE  |  | 5   | DESIGNATION A   | ND SERIAL NO.  |
| í   |  |   |   | 0 /  | • NM052   |   |  |
|   | APPLICATION FOR P  |   |   | · · · · · · · · · · · · · · · · · · ·  | ÷   | IAN, ALLOTTEE   | OR TRIBE NAME  |
| la TYPE OF WORK:  | DRILL 🔀  | DEE AF  | PINO. 30.   | 025-33046  | N/A   |   |  |
| h TYPE OF WELL:   | _  |   |   |  | - 7.0NIT 7<br>89100   | GREEMENT NAME   |  |
| WELL  | WELL Other   | _ <del></del>   | ZONE  | ZONE   |   | R LEASE NAME,   | WELL NO.   |
| 2 NAME OF OPERAT  |  |   |   |  | Mesca   | lero Ridge  | 85 Unit #19  |
| ADDRESS AND TE  | DEVON ENERGY C   | ORPORATION  | (NEVADA)  |  | 9.1091 WE   |   |  |
|   | 20 N. BROADWAY,  | SUITE 1500, OF  | KC, OK 73102 (  | 405) 235-3611  | 30-025  | AND POOL, OR  | WILDCAR AL   |
|   | LL (Report location clearly an   | nd in accordance wi   | th any State requirer   | nents)*  |   | Ridge (Dela   |  |
| At surface 550'   | FNL & 330' FWL   |   |   |  | _   | ·   | LOCK AND SURVEY OR ARE   |
| At top proposed prod.   | zone (SAME)  |   |   |  | UNIT  | D SECTI   | ON 35-T19S-R34E  |
|   | AND DIRECTION FROM NEAREST   | TOWN OF BOST OFFIC  |   |  | 12 000  | NTY OR PARISH   |  |
| 25 miles west of H  |  | IOWN OR POST OFFIC  |   |  | LEA   | NTI OR PARISH   | 13. STATE<br>NM  |
|   | -  |   |   | ·····  |   | <b></b> .   |  |
| 15. DISTANCE FROM PROPO<br>LOCATION TO NEAREST  |  | 16.NO. 0<br>1240  | F ACRES IN LEASE  |  |   |   | F ACRES ASSIGNED<br>IS WELL  |
| PROPERTY OR LEASE I   |  | 1440  |   |  |   | 40  |  |
| 18.DISTANCE FROM PROPO<br>TO NEAREST WELL, DR   |  |   | SED DEPTH   | ·····  |   | 1   | Y OR CABLE TOOLS*  |
| OR APPLIED FOR, ON  |  | 6300'   |   |  |   | ROTAR   | Ŷ  |
| 1. ELEVATIONS (Show whe   | ther DF, RT, GR, etc.)   |   |   |  |   |   | WORK WILL START*   |
| GL 3714'  |  |   |   |  | JUI   | .Y 15, 1995   |  |
|   |  | BDODOGR   |   |  |   |   | · · · · · · · · · · · · · · · · · · ·  |
| SIZE OF HOLE  | GRADE, SIZE OF CASING  |   | CASING AND CI   | EMENTING PROGRAM<br>SETTING DEPT   | H   | OUA   | NTITY OF CEMENT  |
|   |  |   |   |  |   |   |  |
| 7 1/2"  | 14"  |   |   | 40'  |   | CMT W/RE  | ADI-MIX TO SUPE  |
|   | 14"<br>8 5/8" J-55   | 24#   |   | 40°<br>1500'   |   |   | ADI-MIX TO SURF  |
| 2 1/4"<br>7/8"  | 8 5/8" J-55<br>5 1/2" J-55   | 15.5#   | 5.  |  |   | 500 SX LITI   | ADI-MIX TO SURF<br>E + 200 SX CLASS C<br>E + 500 SX CLASS C<br>E MUNIMUM)  |
| 2 1/4"<br>778"<br>We plan to circulate<br>Devon Energy prop<br>leemed noncomme<br>regulations are outl  | 8 5/8" J-55  | 15.5#<br>11 casing strings<br>test the Queen<br>be plugged and  | and Delaware S<br>abandoned per I   | 1500°<br>6300°±  | nmercial qu<br>ograms to a  | 500 SX LITH<br>550 SX LITH<br>(Hie bac  | E + 200  SX CLASS C<br>E + 500  SX CLASS C<br>E  minimum<br>il. If the well is   |
| 2 1/4"<br>7/8"<br>We plan to circulate<br>Devon Energy prop<br>leemed noncomme<br>egulations are outl<br>Drilling Program   | 8 5/8" J-55<br>5 1/2" J-55<br>e cement to surface on a<br>coses to drill to 6300'* to<br>rcial, the well bore will<br>ined in the following ex   | 15.5#<br>11 casing strings<br>test the Queen<br>be plugged and  | and Delaware S<br>abandoned per I<br>hments.  | 1500'<br>6300'±<br>and formations for com<br>Federal regulations. Pr   | ograms to a   | 500 SX LITH<br>550 SX LITH<br>(fie bac<br>antities of ou  | E + 200 SX CLASS C<br>E + 500 SX CLASS C<br>E minimum)<br>il. If the well is<br>shore oil and gas  |
| 2 1/4"<br>7/8"<br>We plan to circulate<br>Devon Energy prop<br>leemed noncomme<br>egulations are outl<br>Drilling Program<br>Surface Use and Op<br>Exhibits #1/1-A = F  | 8 5/8" J-55<br>5 1/2" J-55<br>e cement to surface on a<br>coses to drill to 6300' to<br>rcial, the well bore will<br>ined in the following ex<br>perating Plan<br>Blowout Prevention Equ   | 15.5#<br>11 casing strings<br>test the Queen<br>be plugged and<br>hibits and attac  | and Delaware S<br>abandoned per I<br>hments.<br>The u   | 1500°<br>6300°±<br>and formations for con<br>Federal regulations. Pr<br>ndersigned accepts all a   | ograms to a applicable to   | 500 SX LITT<br>550 SX LITT<br>(fie bac<br>antities of oi<br>dhere to ons<br>erms, condit  | E + 200 SX CLASS C<br>E + 500 SX CLASS C<br>C min mwm)<br>il. If the well is<br>shore oil and gas<br>tions, stipulations                         |
| 2 1/4"<br>7/8"<br>We plan to circulate<br>Devon Energy prop<br>leemed noncomme<br>egulations are outl<br>Drilling Program<br>Surface Use and Op<br>Exhibits #1/1-A = E<br>Exhibit #2 = Locati   | 8 5/8" J-55<br>5 1/2" J-55<br>e cement to surface on a<br>coses to drill to 6300'* to<br>rcial, the well bore will<br>ined in the following ex-<br>perating Plan<br>Blowout Prevention Equ-<br>on and Elevation Plat   | 15.5#<br>11 casing strings<br>test the Queen<br>be plugged and<br>hibits and attact<br>ipment   | and Delaware S<br>abandoned per I<br>hments.<br>The u<br>and re   | 1500'<br>6300'±<br>and formations for com<br>Federal regulations. Pr   | ograms to a<br>applicable to<br>perations co  | 500 SX LITT<br>550 SX LITT<br>(fie bac<br>antities of oi<br>dhere to ons<br>erms, condit  | E + 200 SX CLASS C<br>E + 500 SX CLASS C<br>C min mwm)<br>il. If the well is<br>shore oil and gas<br>tions, stipulations                         |
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le 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 ments or representations as to any matter within its jurisdiction

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#### **DRILLING PROGRAM**

Attached to Form 3160-3 Devon Energy Corporation (Nevada) Mescalero Ridge 35 Unit #19 550' FNL & 330' FWL Section 35-T19S-R34E, Unit D Lea County, New Mexico

### 1. <u>Geologic Name of Surface Formation</u>

Quaternary Alluvium

# 2. Estimated Tops of Important Geologic Markers

| Rustler      | 1774' |
|--------------|-------|
| Salado       | 3609' |
| Yates        | 3512' |
| Seven Rivers | 3859' |
| Queen        | 4579' |
| Delaware     | 5638' |
| Bone Springs | 6098' |

# 3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

The estimated depths at which water, oil and gas will be encountered are as follows:

- Water: Random fresh water from surface to approximately 300' and a water injection interval at 3,300'.
- Oil: Queen at 4579' and Delaware at 5638'
- Gas: None anticipated.

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 8 5/8" casing at 1500' and circulating cement back to surface. The Queen and Delaware intervals will be isolated by setting 5-1/2" casing to total depth and bring the cement top to approximately 1300'.

### MESCALERO RIDGE 35 UNIT #19 DRILLING PLAN PAGE 2

4. <u>Casing Program</u>

| <u>Hole Size</u> | Interval         | Casing OD | Weight | Grade     | Type          |
|------------------|------------------|-----------|--------|-----------|---------------|
| 17 1/2"          | 0' - 40'         | 14"       |        | Conductor | 0.30" wall    |
| 12 1/4"          | 0' - 1500'       | 8 5/8"    | 24#    | J-55      | ST&C, new R-3 |
| 7 7/8"           | 0' - TD (6300'±) | 5 1/2"    | 15.5#  | J-55      | ST&C, new R-3 |

## Cementing Program

| 14" Conductor Casing:        | Cement with Ready-mix to surface.   |
|------------------------------|---|
| 8 5/8" Surface Casing:       | Cement to surface: 500 sks Lite (35% Poz, 65% Class C, 6% gel) with 2% CaCl <sub>2</sub> and 1/4 lb/sk Cellophane flakes + 200 sks Class C with 2% CaCl <sub>2</sub> and 1/4 lb/sk Cellophane flakes. |
| 5 1/2" Production<br>Casing: | Cement to 1300': 550 sks Lite (35% Poz, 65% Class C, 6% gel) with 5 lb/sx salt and 1/4 lb/sk Cellophane flakes + 500 sks Class C with 3% salt, .5% Fluid Loss, 1/4 lb/sk Cellophane flakes.           |

The cement volumes for the 5 1/2" casing could be revised pending the caliper measurement from the open hole logs.

# 5. Minimum Specifications for Pressure Control

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (3000 psi WP) preventor and a bag-type (Hydril) preventor (3000 psi WP). Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOP's will be installed on the 8 5/8" surface casing and utilized continuously until total depth is reached. As per BLM Drilling Operations Order #2, prior to drilling out the 8-5/8" casing shoe, the BOP's and Hydril will be function tested.

### MESCALERO RIDGE 35 UNIT #19 DRILLING PLAN PAGE 3

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a kelly cock, floor safety valve, choke lines and choke manifold having 3000 psi WP rating.

#### 6. <u>Types and Characteristics of the Proposed Mud System</u>

The well will be drilled to total depth brine with starch mud systems. Depths of systems are as follows:

| <u>Depth</u> | Type              | Weight (ppg) | Viscosity (1/sec) | Water Loss (cc) |
|--------------|-------------------|--------------|-------------------|-----------------|
| 0' -1500     | Fresh Water       | 8.8          | 34-36             | No control      |
| 1500' - TD   | Brine with starch | 10.1         | 28-30             | 10-20           |

The necessary mud products for weight addition and fluid loss control will be on location at all times.

## 7. Auxiliary Well Control and Monitoring Equipment

- A. A kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

### 8. Logging, Testing and Coring Program

- A. No drillstem tests are planned.
- B. The open hole electrical logging program will be:

CNL/FDC/LDT/GR from TD to 3300' with GR/CNL to surface DLL/MSFL/GR from TD to 3300'

#### C. No coring program is planned.

D. Additional testing will be initiated subsequent to setting the 5-1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drillstem tests.

#### 9. <u>Abnormal Pressures, Temperatures and Potential Hazards</u>

No abnormal pressures or temperatures are foreseen. The anticipated bottom hole temperature at total depth is 130 degrees and maximum bottom hole pressure is 2700 psig. Small quantities of hydrogen sulfide gas are associated with the Yates and Queen formations in this area. A hydrogen sulfide operations plan will be implemented prior to penetrating the Yates formation (see attached "Hydrogen Sulfide Operations Plan"). No major loss circulation intervals have been encountered in adjacent wells.

#### 10. Anticipated Starting Date and Duration of Operations

Cathleen Borovac of the Carlsbad, New Mexico BLM office has performed the onsite inspection for the proposed pad site of this location. A Cultural Resources Examination will be completed by Desert West Archaeological Services and a copy forwarded to the Carlsbad, New Mexico BLM office.

Road and location preparation will not be undertaken until approval has been received from the BLM. If approved, this well will be drilled as part of a development project. The anticipated spud date for the project is approximately July 15, 1995. The drilling operation should require approximately 15 days. If the well is deemed productive, completion operations will require, at minimum, an additional 30 days of testing to ascertain whether permanent production facilities will be constructed. MINIMUM BLOWOUT PREVENTER REQU.

#### ÆNTS.

### 3.000 psi Werking Pressure

J MWP

Mescalero Ridge 35 Unit #19 Lea County, New Mexico Exhibit #1

CONFIGURATION



|                  | OPTIONAL |
|------------------|----------|
| 16 Flanged valve | 1-13/16* |

CONTRACTOR'S OPTION TO FURNISH:

- 1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 pel, minimum.
- 2. Automatic accumulator (80 patien, minimum) capable of closing BOP in 30 seconds or less and, helding them closed against juli rated working pressure.
- 3.BOP controls, to be incalled near drillers Doellion
- 4.Kelly equipped with Kelly cock. 5.Inside blowout provvenier or its equivalent on dervick floor at all times
- with proper threads to it pipe being used. 6.Kelly sever-sub equipped with subber casing protector at all times.
- 7. Plug type blowout preventer tester.
- S.Extra not pipe rame to it drill pipe in use on location at all times.
- S. Type RX ring gaskets in place of Type R.

### MEC TO FURNESH:

- 1. Bradenhead or casinghead and aide
- 2. Weer bushing, if required.

### GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All enmections, valves, littings, piping, etc., subject to well or pump pressure must be Banged (autable clemp connections acceptable) and have minimum working pressure equal to rated working ure of proveniers up through chore. Valves must be tull opening and suitable for high pressure must service.
- 3.Centrois to be of standard design and each marked, showing eponing and closing position.
- 4. Choice will be peoblemed so as not to hamper or delay changing at choke boons. Replaceable parts for edjustal shake, ather bean sizes, relainers, and choise wrenches to be conveniently located for immediate use.
- S.All velves to be equipped with handwhools or handles ready for immediate UDC. 6. Choke lines must be suitably anchored.

- Gı 0 ANNULAR ◙ PREVENTER BLIND RAMS E 0 PIPE RANS 0منا DRILLING SPOOL  $oldsymbol{O}$ ര CABING HEAD 11ba CASIN 6
  - 7. Handwheels and extensions to be connecied and ready for use.
  - 8. Valves adjacent to drilling speel to be hept open. Lies outside velves except for emergency.
  - 9.All exemises sieci centrel piping (3000 pel working pressure) to have flexible joints to avaid strees. House will be permitted.
  - 18.Conlugheed connections shall not be used succept in case of emergency.
  - 11.Do not use kill line for routing fill-up operations.

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

DISTRICT 11 P.O. Drawer DD, Artesia, NM 88210

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

#### State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Exhibit 2

#### OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

|   |                |             | Pool Code |           | N                                      | e lea                                 | Pool Name                     |  |            |
|---|----------------|-------------|-----------|-----------|--|---------------------------------------|-------------------------------|--|------------|
| 3D-025-33046 37584 Quail Ridge Delaware |                |             |           |           |  |                                       |                               |  |            |
| Property Code                           | ¥              | Prop        | erty Nam  |           |  | Well Ni                               | Well Number                   |  |            |
| 3479                                    | MESC           | ALERO       | RIDG      | E 35 UNIT |  |                                       | 19                            |  |            |
| OGRID No.                               | · · ·          | Ореги       | ator Nam  |           | ······································ | Eleva                                 |                               |  |            |
| 6137                                    |                |             | DEVON     |           |  |                                       | NEVADA)                       | 371  |            |
|   |                |             | DEVOI     |           |  |                                       | NEVADA)                       |  |            |
|   |                | T           | ·····     |           | e Loci                                 | · · · · · · · · · · · · · · · · · · · |                               |  |            |
| UL or lot No. Section                   | · ·            | Range       | Lot Idn   | Feet fro  | m the                                  | North/South line                      | Feet from the                 | Bast/West line                             | County     |
| D 35                                    | 19 S           | 34 E        |           | 55        | 50 NORTH 330                           |                                       | 330                           | WEST                                       | LEA        |
|   | <b>.</b>       | Bottom      | Hole Loc  | ation I   | f Diffe                                | rent From Sur                         | face                          | L  | L          |
| UL or lot No. Section                   | Township       | ·           |           |           |  | i                                     |                               |  |            |
| UL OF IOL NO. SECUO                     | Township       | Range       | Lot Idn   | Feet fro  | ть                                     | North/South line                      | Feet from the                 | East/West line                             | County     |
|   |                |             |           |           |  |                                       |                               |  |            |
| Dedicated Acres Join                    | t or Infill Co | nsolidation | Code Ore  | der No.   |  |                                       |                               |  |            |
|   |                |             |           |           |  |                                       |                               |  |            |
| NO ALLOWARIE                            | WILL BE AS     | SSIGNED     | רח זדעוק  | COMPIE    | TION U                                 | NTIL ALL INTER                        | POTO UAUT DI                  | EN CONCOLD                                 |            |
| NO ALLOWADLE                            | OR A N         | ION-STAN    | DARD UN   | TT HAS    | BEEN                                   | APPROVED BY                           | COIS HAVE BE                  | LEN CONSOLIDA                              | ATED       |
|   |                |             |           |           |  |                                       |                               |  |            |
|   |                |             |           |           | 1                                      |                                       | ODEDATO                       | R CERTIFICAT                               |            |
| 3713.7" 3715.3                          |                |             |           |           | 1                                      |                                       | U OI ERATC                    | K CENTIFICA                                |            |
| 330                                     | 1              |             |           |           |  |                                       |                               | y certify the the inj                      |            |
|   |                |             |           |           |  |                                       | 11                            | r is true and comple<br>blodge and belief. | ete to the |
| 3710.8' 3712.87                         |                |             |           |           | 1                                      |                                       |                               |  |            |
|   | 1              |             |           |           | ł                                      |                                       |                               | <i>.</i> .                                 | , [        |
|   | 1              |             |           |           | . 1                                    |                                       | 1 = 7                         | . K. Hina                                  | A MI       |
|   | 4              |             |           |           |  |                                       | Signature                     | V=mark-                                    |            |
|   | 1              |             |           |           | 1                                      | ·····                                 | E.L. But                      | tross, Jr.                                 |            |
|   | 1              |             |           |           | 1                                      |                                       | Printed Nam                   |  |            |
|   | t<br>r         |             |           |           |  |                                       | District                      | Engineer                                   |            |
|   |                |             |           |           | I                                      |                                       | Title                         |  |            |
|   | l              |             |           |           | 1                                      |                                       | June,                         | 5, 1995                                    |            |
|   |                |             |           |           |  |                                       | Date                          |  |            |
|   | 1              |             |           |           | 1                                      |                                       | CUDUDUO                       |  |            |
| ┝─────                                  | ·              |             |           |           |  |                                       | - SURVEYO                     | R CERTIFICAT                               | ION        |
|   | 1              |             |           |           |  |                                       | I hereby certify              | that the well locati                       | on shorin  |
|   |                |             |           |           | i                                      |                                       | on this plat we               | s plotted from field                       | notes of   |
|   | i              |             |           |           | i                                      |                                       |                               | made by me or<br>i that the same is        |            |
|   | i              |             |           |           | 1                                      |                                       |                               | pest of my belief                          |            |
|   | 1              |             |           |           | 1                                      |                                       |                               |  |            |
|   | 1              |             |           |           | 1                                      |                                       | -  / · Mo                     | iy 5, 1995                                 |            |
|   | I              |             |           |           |  |                                       | Date Surveye                  | A CONTRACTOR                               |            |
|   | +              |             |           |           | - + -                                  |                                       | - Signature &<br>Professional |  |            |
|   | 1              |             |           |           | 1                                      |                                       | 1 (i-m) (                     | Surveyor                                   |            |
|   | I              |             |           |           | 1                                      |                                       |                               |  |            |
|   | 1              |             |           |           | 1                                      |                                       | A Free                        | XXX  |            |
|   | 1              |             |           |           | 1                                      |                                       | IN Marine                     | <b>NOL</b>                                 | <b>6</b>   |
|   | •              |             |           |           | i                                      |                                       |                               | Chilling and 54745                         |            |
|   | i              |             |           |           | 1                                      |                                       | W.U.                          | Num: 5131f                                 |            |
| , <i>.</i>                              | i<br>I         |             |           |           | ł                                      |                                       | Certificate No                | ». Gary L. Jones                           | 7977       |
|   |                |             |           |           |  |                                       |                               |  | ł          |



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A Constants