

**NM OIL CONS. COMMISSION**  
**DRAWER L**  
**ARTESIA, NM 88210**

Form 3160-3  
 (December 1990)

SUBMIT IN TRIPLICATE\*  
 (Other instructions on  
 reverse side)

Form approved.  
 Budget Bureau No. 1004-0136  
 Expires: December 31, 1991

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

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

<b>1a. TYPE OF WORK</b> DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> <b>b. TYPE OF WELL</b> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> NM 0331649 (A)																				
<b>2. NAME OF OPERATOR</b> Collins & Ware, Inc.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b>  																				
<b>3. ADDRESS AND TELEPHONE NO.</b> 508 W. Wall, Suite 1200, Midland, Texas 79701 (915) 687-3435		<b>7. UNIT AGREEMENT NAME</b>  																				
<b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)</b> At surface 2240' FSL & 2240' FEL At proposed prod. zone Same		<b>8. FARMOR LEASE NAME, WELL NO.</b> Ram Ewe Federal #4																				
<b>14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*</b> 4 miles SW from Carlsbad, New Mexico		<b>9. API WELL NO.</b> 30-015-27738																				
<b>15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)</b> 400' / 400'	<b>16. NO. OF ACRES IN LEASE</b> 440	<b>10. FIELD AND POOL, OR WILDCAT</b> Happy Valley Delaware																				
<b>18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.</b> 400'	<b>19. PROPOSED DEPTH</b> 5100	<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> J, Sec 33, T-22S, R-26E																				
<b>21. ELEVATIONS (Show whether DF, RT, GR, etc.)</b> 3316' GL		<b>12. COUNTY OR PARISH</b> Eddy																				
<b>23. PROPOSED CASING AND CEMENTING PROGRAM</b> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>SIZE OF HOLE</th> <th>GRADE, SIZE OF CASING</th> <th>WEIGHT PER FOOT</th> <th>SETTING DEPTH</th> <th>QUANTITY OF CEMENT</th> </tr> </thead> <tbody> <tr> <td>17 1/2</td> <td>13 3/8 K55</td> <td>54.5#</td> <td>500</td> <td>400 sx - Circulate</td> </tr> <tr> <td>11</td> <td>8 5/8 J55</td> <td>24#</td> <td>1650</td> <td>650 sx - Circulate</td> </tr> <tr> <td>7 7/8</td> <td>5 1/2 K55</td> <td>15.5#</td> <td>5100</td> <td>800 sx - Tie back into 8 5/8" cs</td> </tr> </tbody> </table>		SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	17 1/2	13 3/8 K55	54.5#	500	400 sx - Circulate	11	8 5/8 J55	24#	1650	650 sx - Circulate	7 7/8	5 1/2 K55	15.5#	5100	800 sx - Tie back into 8 5/8" cs	<b>13. STATE</b> NM
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<b>20. ROTARY OR CABLE TOOLS</b> Rotary		<b>22. APPROX. DATE WORK WILL START*</b> Unknown																				

Operator proposes to drill the Delaware formation to test for possible commercial production of oil and gas. If productive, production casing will be set to TD. If non-productive, the well will be P&A'd in a manner consistent with Federal and State regulations and according to good engineering practices. Specific programs according to Onshore Oil and Gas Order #1 are outlined in the following attachments:

1. Well location and acreage dedication plat
2. Drilling Program  
 Exhibit #1: BOP and Choke Manifold
3. Surface Use and Operating Plan  
 Exhibit #2: Existing Roads  
 Exhibit #2A: Planned Access Roads  
 Exhibit #3: One-Mile Radius Map with Lease Boundry  
 Exhibit #3A: Well Status

- Exhibit #4: Drilling Rig Layout  
 Exhibit #5: Production Facilities Layout

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.

SIGNED: [Signature] TITLE: Dianne Sumrall  
Production Clerk  
 DATE: 11/10/94

(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: (ORIG. SGD.) RICHARD L. MANFRE

**AREA MANAGER**

DATE: 12/15/94

\*See Instructions On Reverse Side

APPROVAL SUBJECT TO  
 GENERAL REQUIREMENTS AND  
 SPECIAL STIPULATIONS  
 ATTACHED