Form 3160-3
(July 1992)

SUBMIT IN TRIPL
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

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

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NM 88163

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME, WELL NO.: Avion '22' Federal # 1

2. NAME OF OPERATOR: Burlington Resources Oil & Gas Company

9. API WELL NO.:

3. ADDRESS AND TELEPHONE NO.: P.O. Box 51810 Midland, TX 79710-1810 915-688-6943

10. FIELD AND POOL, OR WILDCAT: ~~Triste Draw~~ Delaware Diamond Mtn
Wildcat Bone Spring

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1036' FSL & 364' FEL
At proposed prod. zone: Unit P

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 22, T23S, R32E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 32 miles northwest of Jal, New Mexico

12. COUNTY OR PARISH: Lea

13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 364'

16. NO. OF ACRES IN LEASE: 480

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: N/A, 1st well/lease

19. PROPOSED DEPTH: 9100'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF,RT, GR, etc.)

22. APPROX. DATE WORK WILL START*: Upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | GRADE, SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|---|---|---|---|---|
| 17 1/2" | 13 3/8" | #48 | 850' | 850 sxs |
| 12 1/4" | 8 5/8" | 28#/32# | 4650' | 1550 sxs |
| 7 7/8" | 5 1/2" | 17# | 9100' | 500 sxs |

Not in Hydrogen Sulfide Area
Not in Potash Area
Not in Prairie Chicken Area

Contact Person: Donna Williams, 915-688-6943

Notice of Staking submitted on January 13, 1997.

OPER. OGRID NO. 26485
PROPERTY NO. 20480
POOL CODE 17647
EFF. DATE 3/3/97
API NO. 30-025-33852

NSL-3763

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 _____ TITLE Regulatory Compliance DATE 1/23/97

(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.) TONY L. FERGUSON TITLE ADM. MINERALS DATE 2/26/97

*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
P. O. Box 1980
Hobbs, NM 88241-1980

DISTRICT II
P. O. Drawer DD
Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

DISTRICT IV
P. O. Box 2088
Santa Fe, NM 87507-2088

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-102
Revised 02-10-94

Instructions on back

Submit to the Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1 API Number | 2 Pool Code | 3 Pool Name | |
|---|---|---|---|
| 30-025-33852 | 17647 | ~~Triste Draw~~ Diamondtail Delaware/~~Wildcat Bone Spring~~ | |
| **4 Property Code** | **5 Property Name** | | **6 Well Number** |
| 20480 | AVION "22" FEDERAL | | 1 |
| **7 OGRID No.** | **8 Operator Name** | | **9 Elevation** |
| 26485 | BURLINGTON RESOURCES OIL & GAS COMPANY | | 3660' |

### 10 SURFACE LOCATION

| UL or lot no. | Section | Township | Range | Lot Ida | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| P | 22 | 23 SOUTH | 32 EAST, N.M.P.M. | | 1036' | SOUTH | 364' | EAST | LEA |

### 11 BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE

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

| 12 Dedicated Acres | 13 Joint or Infill | 14 Consolidation Code | 15 Order No. |
|---|---|---|---|
| 40 | | | |

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

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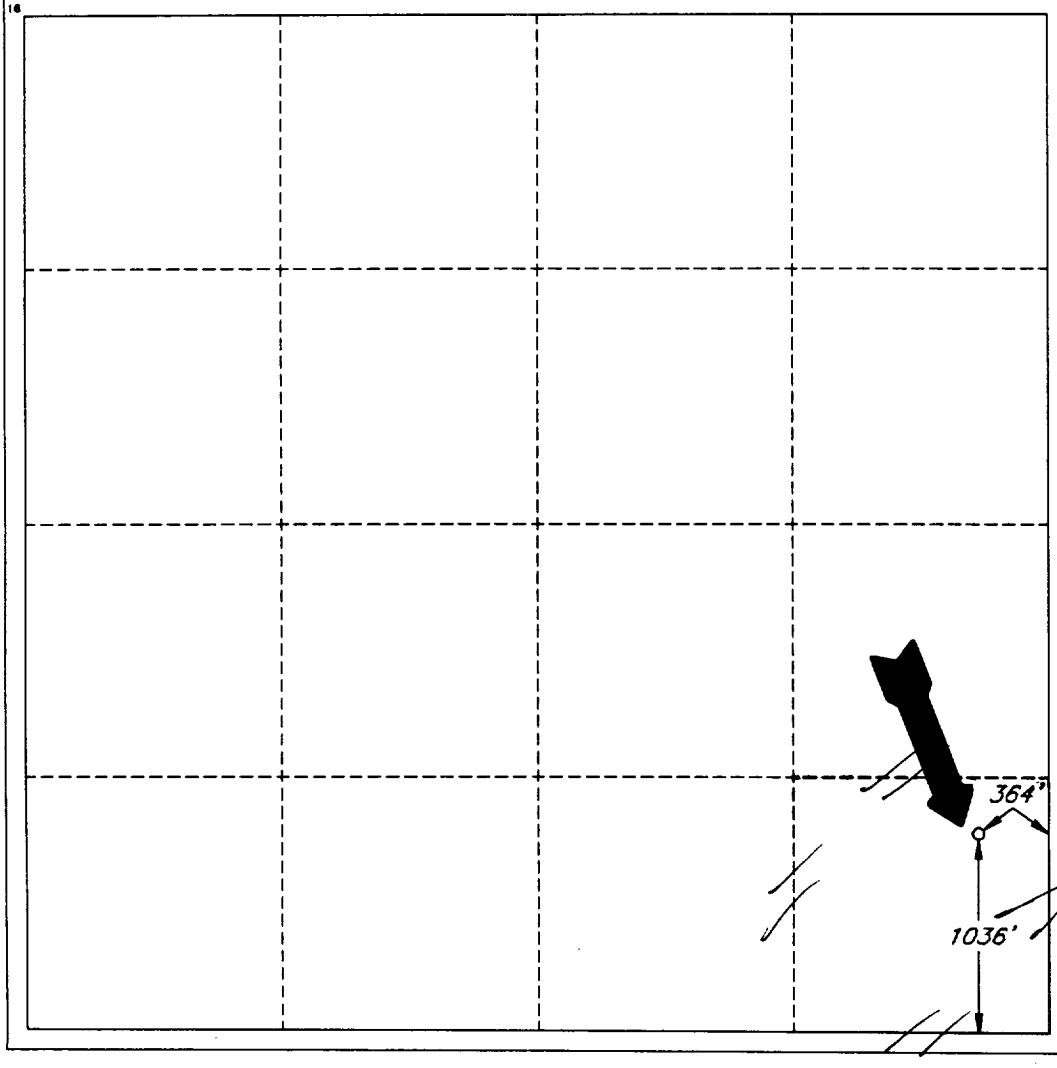


### OPERATOR CERTIFICATION

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

Signature
Donna Williams

Printed Name
Regulatory Compliance

Title
1/24/97

Date

### 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.*

Date of Survey
JANUARY 15, 1997

Signature and Seal of Professional Surveyor

ROGER M. ROBBINS
NEW MEXICO
12128
REGISTERED PROFESSIONAL SURVEYOR

Certificate No.
ROGER M. ROBBINS P.S. #12128

JOB #49573 / 47-SW / V.H.B.

| | |
|---|---|
| **OPERATORS NAME:** | **Burlington Resources Oil & Gas Company** |
| **LEASE NAME AND WELL NO.:** | **Avion '22' Federal Well No. 1** |
| **LOCATION:** | **1036' FSL & 364' FEL, Sec. 22, T23S, R32E** |
| **FIELD NAME:** | **Triste Draw Delaware/Wildcat Bone Spring** |
| **COUNTY:** | **Lea County, New Mexico** |
| **LEASE NUMBER:** | **NM88163** |

The following information is to supplement BLM form 3160-3 Application for permit to drill in accordance with Onshore Oil and Gas Order No. 1:

## 9 - POINT DRILLING PLAN

1. Name and estimated tops of important geologic formation/marker horizons.

| FORMATION | DEPTH |
|---|---|
| Rustler | 970' |
| Salado | 1100' |
| Delaware | 4850' |
| Bone Spring | 8940' |

2. Estimated depths at which the top and bottom of formations potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals are expected to be encountered and the operator's plans for protecting such resources.

| | |
|---|---|
| Delaware | 4850' |
| Bone Spring | 8940' |

3. The operator's minimum specifications for Blowout Preventer (BOP) and related equipment to be used and schematic diagrams thereof showing sizes, pressure ratings, and the testing procedures and testing frequency. BOP and BOP - related equipment (BOPE) schematics shall include schematics of choke manifold equipment. Accumulator systems and remote controls shall be utilized.

13 5/8" 1.5M psi WP BOP w/rotating head to be installed on the 13 3/8" csg. Test to 750 psi before drilling the 13 3/8" csg. shoe.

11" 3M BOP stack to be installed on the 8 5/8" csg. The BOP stack will consist of one blind ram BOP, one pipe ram BOP and a rotating head. Tested to 1500 psi before drilling the 8 5/8" casing shoe.

4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

CASING:

17 1/2" hole, 13 3/8" H-40 48# csg, set @ 850'

12 1/4" hole, 8 5/8" K-55 28#/32# csg, set @ 4650'

7 7/8" hole, 5 1/2" K-55 17# csg, set @ 9100'

5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.

a. 13 3/8" csg: Cmt w/650 sxs Class 'C' + 4% gel + 2% CaCl2 + 1/4 pps flocele, tail w/200 sxs Class 'C' + 2% CaCl2 + 1/4 pps flocele. Circ. to surface.

b. 8 5/8" csg: Cmt w/1100 sxs Class 'C' + 9 pps salt + 5 pps gilsonite + 1 pps econolite + 1/4 pps flocele, tail w/450 sxs 'C' + 2% CaCl2. Circ. to surface

c. 5 1/2" csg: Cmt w/300 sxs 'C' + 3% econolite + .5 pps flocele, tail w/200 sxs 'H' 50/50 Poz + .6% Halad-9 + 2% gel + 3 pps Kcl + .25% flocele. TOC @ +/-4400'.

6. The anticipated characteristics, additives, use, and testing of drilling mud to be employed, along with the types and quantities of mud products to be maintained, shall be given. When air or gas drilling is proposed, the operator shall submit the following specific information:

Mud Program:
0-850' Fresh water, gel and lime system, MW 8.6-9.0
850'-4650' brine, MW, 10.0-10.1 ppg
4650'-9100' Fresh water, MW 8.3-8.5

7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.

a. DST Program: None

b. Core: None

c. Mud Logging: One man unit 4600' to TD

d. Logs to be run: DIL/GR/Density/Neutron/Sonic/Gamma Ray

. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

Bottom hole pressures at TD expected to be 4300 psi. Bottom hole temperature 140 F. There is no anticipated Hydrogen Sulfide in this known drilling area. No abnormal pressures are anticipated.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

Anticipated drilling time expected to be 18 days to TD.

DOUBLE RAM

BLOW OUT PREVENTION EQUIPMENT
10" 900s ALL FLANGED CONNECTIONS

3000# WORKING PRESSURE