

N. M. OIL CONS. COMMISSION  
P. O. BOX 51810  
HOBBES, NEW MEXICO 870240  
SUBMIT IN TRIPLIC.  
(Other instructions on reverse side)

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

4-30-97 ALN

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

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

<b>1a. TYPE OF WORK</b> <div style="display: flex; justify-content: space-around;"><span><b>DRILL</b> <input checked="" type="checkbox"/></span><span><b>DEEPEN</b> <input type="checkbox"/></span></div> <b>b. TYPE OF WELL</b> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> <b>2. NAME OF OPERATOR</b> Burlington Resources Oil & Gas Company <b>3. ADDRESS AND TELEPHONE NO.</b> P.O. Box 51810 Midland, TX 79710-1810 915-688-6943 <b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.) At surface 1101' FNL & 829' FEL At proposed prod. zone <u>UNIT A</u> <b>14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*</b> 31 miles northwest of Jal, NM <b>15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.</b> (Also to nearest drlg. unit line, if any) 829' <b>18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.</b> N/A <b>21. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) 3681		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> NM 89055-87059 <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b>  <b>7. UNIT AGREEMENT NAME</b>  <b>8. FARM OR LEASE NAME, WELL NO.</b> Red Ruby '35' # 1 Federal <b>9. API WELL NO.</b>  <b>10. FIELD AND POOL, OR WILDCAT</b> Triste Draw Delaware Triste Draw Bone Spring <b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> 35, 23S, 32E <b>12. COUNTY OR PARISH</b> Lea <b>13. STATE</b> NM <b>16. NO. OF ACRES IN LEASE</b> 320 <b>17. NO. OF ACRES ASSIGNED TO THIS WELL</b> 40 <b>20. ROTARY OR CABLE TOOLS</b> Rotary <b>22. APPROX. DATE WORK WILL START*</b> Upon Approval
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23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" H-40	36#	850'	850 SXS
8 3/4"	7" K-55	23#	4650'	1550 SXS
6 1/8"	4 1/2" K-55	11.6#	9100'	500 SXS

**CARLSBAD CONTROLLED WATER BASIN**

Not in Potash Area  
Not in Prairie Chicken Area  
No Hydrogen Sulfide anticipated

Notice of Staking submitted on 4/7/97.

Contact Person: Donna Williams  
915-688-6943

OPER. GRID NO. 26485  
PROPERTY NO. 20925  
POOL CODE 96603  
EFF. DATE 6-5-97  
NO. 30-025-34003

**APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED**

aca  
5/29/97

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. [Signature] SIGNED TITLE Regulatory Compliance DATE 4/24/97

(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 \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 5-29-97

\*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

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

Form C-102  
Revised 02-10-94  
Instructions on back

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

## OIL CONSERVATION DIVISION

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

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

DISTRICT III  
1000 Rio Brazos Rd.  
Aztec, NM 87410

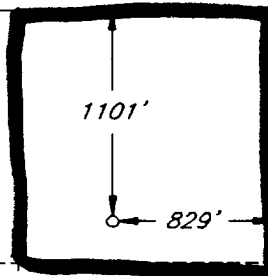
☐ AMENDED REPORT

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-34003		2 Pool Code 46603		3 Pool Name Triste Draw Delaware/Triste Draw Bone Spring					
4 Property Code		5 Property Name RED RUBY '35' FEDERAL						6 Well Number 1	
7 OGRID No. 26485		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY						9 Elevation 3681'	
10 SURFACE LOCATION									
UL or lot no. A	Section 35	Township 23 SOUTH	Range 32 EAST, N.M.P.M.	Lot Ida	Feet from the 1101'	North/South line NORTH	Feet from the 829'	East/West line EAST	County 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 40		13 Joint or Infill		14 Consolidation Code		15 Order No. NSL-3795			

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



#### 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  
4/24/97

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

Signature and Seal of  
Professional Surveyor

Certificate No.  
ROGER M. ROBBINS P.S. #12128  
JOB #51082-1 / 47 SW / V.H.B.

<b>OPERATORS NAME:</b>	<b>Burlington Resources Oil &amp; Gas Company</b>
<b>LEASE NAME AND WELL NO.:</b>	<b>Red Ruby '35' Federal # 1</b>
<b>LOCATION:</b>	<b>1101' FNL &amp; 829' FEL, Sec. 35, T23S, R32E</b>
<b>FIELD NAME:</b>	<b>Triste Draw Delaware/Triste Draw Bone Spring</b>
<b>COUNTY:</b>	<b>Lea County, New Mexico</b>
<b>LEASE NUMBER:</b>	<b>NM 89055</b>

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.

<u>FORMATION</u>	<u>DEPTH</u>
Rustler	1200'
Delaware	4850'
Bone Spring	8865'

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	8865'

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.

11" 3M BOP stack to be installed on the 7" 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 7" 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:

12 1/4" hole, 9 5/8" H-40 36# csg, set @ 850'

8 3/4" hole, 7" K-55 23# csg, set @ 4650'

6 1/8" hole, 4 1/2" K-55 11.6# 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. 9 5/8" csg: Cmt w/650 sxs Class 'C' + 4% gel + 2% CaCl<sub>2</sub> + 1/4 pps flocele, tail w/200 sxs Class 'C' + 2% CaCl<sub>2</sub> + 1/4 pps flocele. Circ. to surface.
  - b. 7" 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% CaCl<sub>2</sub>. Circ. to surface
  - c. 4 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

0850'-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

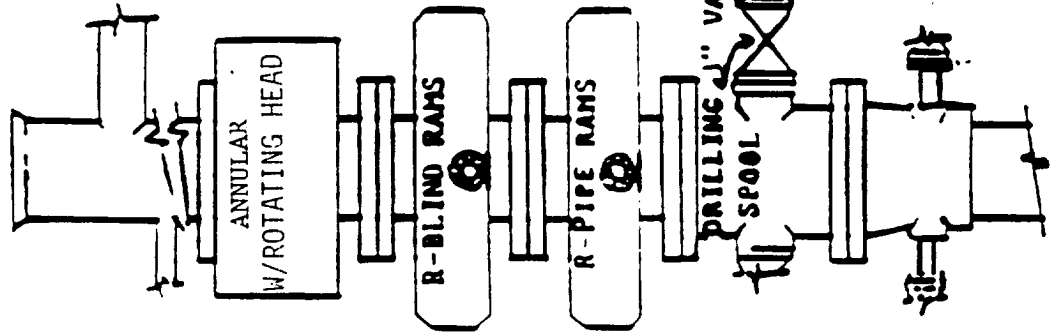
The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter 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.

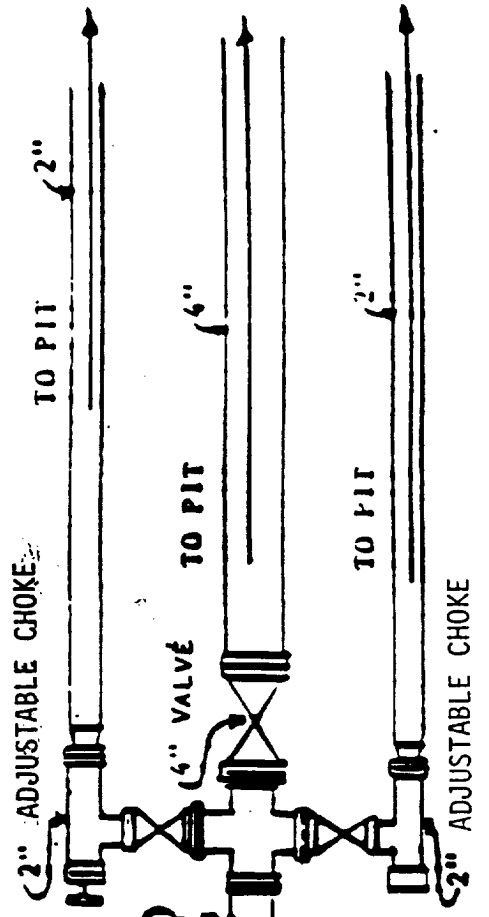
9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

Anticipated drilling time expected to be 18 days to TD.

DOUBLE RAM



BLOW OUT PREVENTION EQUIPMENT  
10" 900s ALL FLANGED CONNECTIONS  
3000# WORKING PRESSURE



## 12-POINT SURFACE USE PLAN OF OPERATIONS

1. **Existing Roads:** A legible map (USGS topographic, county road, or other such map) labeled and showing the access route to the location, shall be used for locating the proposed well site in relation to a town, village, or other locatable point, such as a highway or county road. All access roads shall be appropriately labeled. Any plans for improvement and/or maintenance of existing roads shall be provided. All roads shall be provided. All roads shall be improved or maintained in a condition the same as or better than before operations. The information provided for use and construction of roads will also be used by BLM for the required Plan of Development for a R/W application as described in Section II C of this Order No. 1.

See Exhibit "A" - topographic land surveyors plat showing existing roads and directions to well site.

2. **Access Roads to be Constructed or Reconstructed:** All permanent and temporary access roads to be constructed or reconstructed in connection with the drilling of the proposed well shall be appropriately identified and submitted on a map or plat. The proposed route to the proposed drill site shall be shown, including distances from the point where the access route exists established roads. All permanent and temporary access roads shall be located and designed to implement the goals of transportation planning and meet applicable standards of the appropriate SMA, and shall be consistent with the needs of the users. Final selection of the route location may be accepted by the SMA as early as the predrill inspection or during approval of the APD.

See Exhibit "B" plat for road to be constructed and description.

3. **Location of Existing Wells:** This information shall be submitted on a map or plat, which includes all recorded wells (water, injection, or disposal, producing, or being drilled) within a 1-mile radius of the proposed location.

See Exhibit "C" - portion of land map showing surrounding wells in area.

4. **Location of existing and/or proposed production facilities:** For facilities planned either on or off the well pad, a plat or diagram shall be included showing, to the extent known or anticipated, the location of all production facilities and lines to be installed if the well is successfully completed for production. If new construction is planned, the dimensions of the facility layouts are to be shown. This information for off-pad production facilities may be used by BLM for R/W application information as specified in Section II C of Order No. 1.

Production facilities for this well will be built at the location.

**Location of Types of Water Supply:** Information concerning water supply, such as rivers, creeks, springs, lakes, ponds, and wells, may be shown by quarter-quarter section on a map or plat, or may be described in writing. The source and transportation method for all water to be used in drilling the proposed well shall be noted if the source is located on Federal or Indian Lands or if water is to be used from a Federal or Indian project. If the water is obtained from other than Federal or Indian lands, the location and transportation method shall be identified. Any access roads crossing Federal or Indian lands that are needed to haul the water shall be described as provided in paragraphs (1) and (2) of this Section. If a water supply well is to be drilled on the lease, the APD shall so state. The authorized officer of BLM may require the filing of a separate APD of a water well.

No available surface or sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported or pumped to the drill site from the nearest commercial source.

6. **Construction Materials:** The operator shall state the character and intended use of all construction material, such as sand, gravel, stone, and soil material. If the materials to be used are Federally owned, the proposed source shall be shown either on a quarter-quarter section on a map or plat, or in a written description.

Will try to use Caliche from reserve pit. If unable to use Caliche from reserve pit, then will get Caliche from a Federal or State approved caliche pit.

7. **Methods of Handling Waste Disposal:** A written description of the methods and locations proposed for safe containment and disposal of each type of waste material (e.g. cuttings, garbage, salts, chemicals, sewage, etc.) that results from the drilling and completion of the proposed well shall be provided.

- Drill cuttings - disposed into drilling pits.
- Drill fluids - allowed to evaporate in drill pits until pits dry.
- Produced water during testing - drill pits.
- Produced oil during testing - storage tank until sold.
- Current laws and regulations pertaining to disposal of human waste will be observed.
- Reserve pit will be plastic lined.
- Waste paper, garbage, and junk will be disposed of into a special container on location and removed regularly to an approved landfill site. All waste material will be covered with a screen or lid and contained to prevent scattering by wind.
- All trash and debris will be removed from well site within 30 days after drilling and/or completion operations are finished.



8. **Ancillary Facilities:** All ancillary facilities such as camps and airstrips shall be identified on a map or plat. Information as to location, land area required, and methods to be used in construction shall also be provided.

0 Information unavailable at this time.

9. **Well Site Layout:** A plat of suitable scale (not less than 1 inch = 50 feet) showing the proposed drill pad, reserve pit location, access road entry points, and its approximate location with respect to topographic features, along with cross section diagrams of the drill pad and the reserve pit showing all cuts and fills and the relation to topography. The plat shall also include the approximate proposed location and orientation of the drilling rig, dikes and ditches to be constructed, and topsoil and/or spoil material stockpiles.

See Exhibit "D"

10. **Plans for Reclamation of the Surface:** A proposed interim plan for reclamation stabilization of the site and also final reclamation plan shall be provided. The interim portion of the plan shall cover areas of the drillpad not needed for production. The final portion of the plan shall cover final abandonment of the well. The plan shall include, as appropriate, configuration of the reshaped topography, drainage systems, segregation of spoil materials, surface manipulations, redistribution of topsoil, soil treatments, revegetation, and any other practices necessary to reclaim all disturbed areas, including any access roads and pipelines. An estimate of the time for commencement and completion of reclamation operations, including consideration of weather conditions and other local uses of the area, shall be provided.

- After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well in as aesthetically pleasing a condition as possible.
- Any unguarded pits containing fluids will be fenced until filled.
- After abandonment of well, surface restoration will be in accordance with the Bureau of Land Management Surface Requirements.

11. **Surface Ownership:** The surface ownership (Federal, Indian, State or private) and administration (BLM, FS, BIA, Department of Defense, etc.) at the well location, and of all lands crossed by roads which are to be constructed or upgraded, shall be indicated. Where the surface of the proposed well site is privately owned, the operator shall provide the name, address and telephone number of the surface owner.

Bureau of Land Management  
620 E. Green Street  
Carlsbad, New Mexico 88220

12. **Other Information:** Type of bond. The operator shall be covered by a bond in its own name as principal, or by a bond in the name of the lessee or sublessee.

Burlington Resources Oil & Gas is covered by a statewide bond.

**Operator's Representatives:**

Field representatives (Responsible for compliance with approved surface use operations plan.)

Burlington Resources Oil & Gas Company  
P.O. Box 837  
Hobbs, NM 88240  
Office: 505-393-5844

Mr. Ed Jackson, Drilling Foreman  
Loco Hills, NM  
Home: 505-677-2323  
Mobil: 505-365-7206

Mr. Frank Raybon, Drilling Foreman  
Eunice, NM  
Home: 505-394-2449  
Mobile: 505-369-5367

Les Sinclair, Drilling Engr.  
P.O. Box 51810  
Midland, TX 79710-1810  
Office: 915-688-6855  
Home: 915-685-3254

Hal Lee, Drilling Superintendent  
P.O. Box 51810  
Midland, TX 79710-1810  
Office: 915-688-6834  
Home: 915-685-6073

### OPERATORS CERTIFICATION

I hereby certify that I, **Les Sinclair, Drilling Engineer**, under my direct supervision, have inspected the proposed drill site and access route that I am familiar with the conditions that currently exist; that the statements made in the APD package are, to the best of my knowledge, true and correct, and that the work associated with operations proposed herein will be performed by **not yet determined** contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM **statewide** bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DATE:

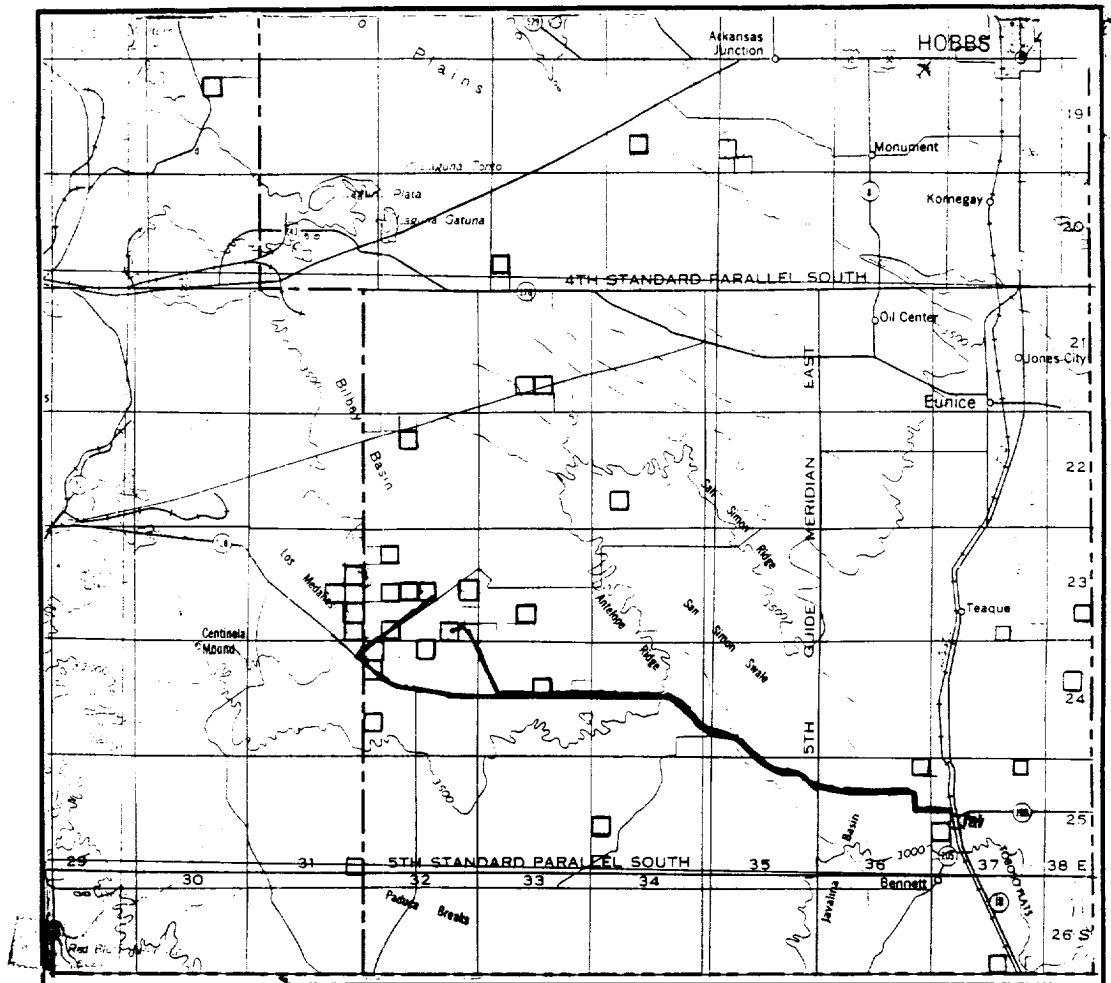
4/24/97

NAME AND TITLE: Les Sinclair, Drilling Engineer

SIGNATURE:



# VICINITY MAP



SECTION 35 TWP 23-S RGE 32-E  
 SURVEY NEW MEXICO PRINCIPAL MERIDIAN  
 COUNTY LEA STATE NM  
 DESCRIPTION 1101' FNL & 829' FEL

OPERATOR BURLINGTON RESOURCES OIL & GAS CO.  
 LEASE RED RUBY "35" FEDERAL #1

DISTANCE & DIRECTION FROM THE JCT. OF STATE HWY.  
18 & STATE HWY. 128 IN JAL, GO WESTERLY ±26 MILES  
STATE HWY. 128, THENCE NORTHWESTERLY 4.8 MILES ON  
CALICHE ROAD, THENCE WESTERLY 0.3 MILE ON LEASE  
ROAD TO A POINT ±400' NORTH OF THE LOCATION.

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.  
 Review this plat and notify us immediately of any possible discrepancy.

## TOPOGRAPHIC LAND SURVEYORS

*Surveying & Mapping for the Oil & Gas Industry*

1307 N. HOBART  
 PAMPA, TX. 79065  
 (800) 658-6382

6709 N. CLASSEN BLVD.  
 OKLAHOMA CITY, OK. 73116  
 (800) 654-3219

2903 N. BIG SPRING  
 MIDLAND, TX. 79705  
 (800) 767-1653

LEA COUNTY, NEW MEXICO

27 26 S 89°50' W. 2640.1' 26 25  
34 35 35 36

EXISTING LEASE ROAD  
PROPOSED LEASE ROAD  
S 02°29' E 400'  
WATER LINES  
1101'  
829'

BURLINGTON RESOURCES O. & G. CO.  
RED RUBY #35 FEDERAL #1  
GROUND ELEVATION: 3681'

S 00°02' E. 2640.1'  
S 00°04' W. 2639.3'  
S 00°01' E. 2642.4'

34 35 T-23-S  
3 2 T-24-S N 89°49' E. 5288.1' 35 36  
2 1

PLAN VIEW  
1" = 1000'

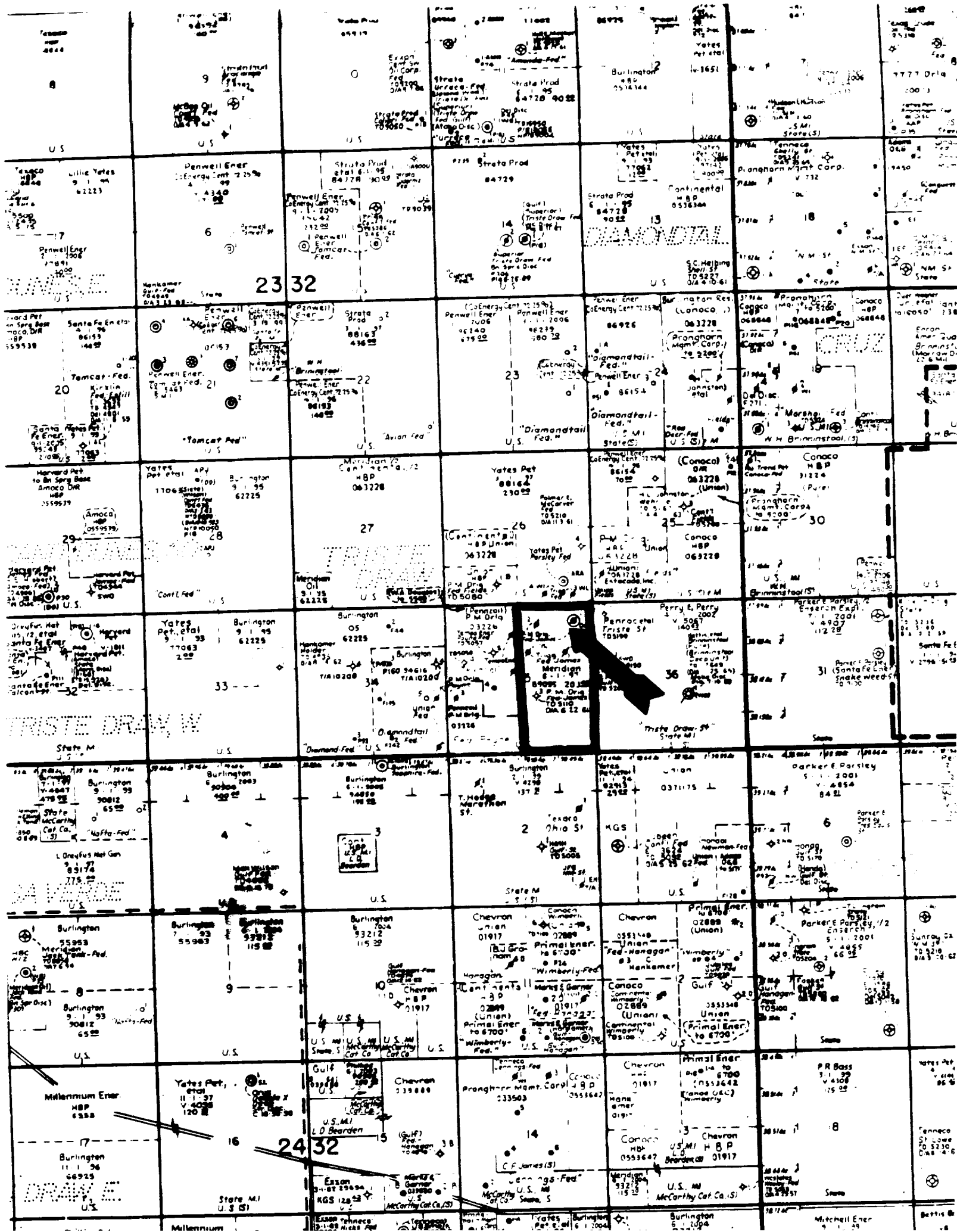
PROPOSED LEASE ROAD  
POWER LINE  
WATER LINE  
PROPOSED PIT AREA  
PROPOSED WELL LOCATION  
ELEV.: 3681'

WATER LINES TO BE RELOCATED

DETAIL VIEW  
1" = 100'

47 SW

SHEET : 1 OF 1



**BURLINGTON RESOURCES OIL & GAS COMPANY**

**MID-CONTINENT DIVISION  
DRILL WELL LOCATION SPECIFICATIONS**

