



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

May 7, 1998

**Burlington Resources Oil & Gas Company**  
**P. O. Box 4289**  
**Farmington, New Mexico 87499-4289**  
**Attention: Peggy Bradfield**

*Administrative Order NSL-4030*

Dear Ms. Bradfield:

Reference is made to your application dated April 17, 1998 for a replacement Pictured Cliffs gas well to be drilled at an unorthodox gas well location within a standard 160-acre gas spacing and proration unit comprising the NE/4 of Section 11, Township 25 North, Range 8 West, NMPM, Ballard-Pictured Cliffs Pool, San Juan County, New Mexico.

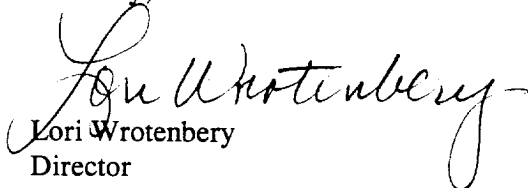
It is our understanding that the proposed Quitzau Well No. 8-R is to be located 2100 feet from the North line and 2255 feet from the East line (Unit G) of said Section 11. *25N-08W*

Initial development of Ballard-Pictured Cliffs gas pool production within the subject 160-acre gas spacing and proration unit commenced in 1956 when Benson-Montin drilled its Quitzau Well No. 8 (API No. 30-045-13306) at a standard gas well location 1204 feet from the North line and 1160 feet from the East line (Unit A) of said Section 11. In 1993 Meridian Oil Company, successor operator, plugged and abandoned the Quitzau Well No. 8 well.

The application has been duly filed under the provisions of Rule 104.F of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division").

By the authority granted me under the provisions of Division General Rule 104.F(2), the above-described unorthodox gas well location for the proposed Quitzau Well No. 8-R is hereby approved.

Sincerely,

  
Lori Wrotenbery  
Director

LW/MES/kv

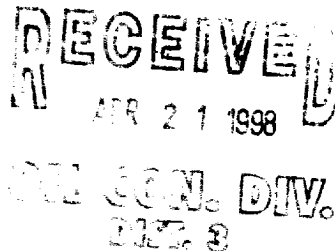
cc: New Mexico Oil Conservation Division - Aztec  
U. S. Bureau of Land Management - Farmington

# BURLINGTON RESOURCES

SAN JUAN DIVISION  
April 17, 1998

Sent Federal Express

Ms. Lori Wrotenbery, Director  
New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505



Re: Quitzau #8R  
2100'FNL, 2255'FEL, Section 11, T-25-N, R-8-W, San Juan County, New Mexico  
30-045-not assigned

Dear Ms. Wrotenbery:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Ballard Pictured Cliffs pool. This application for the referenced location is due to extremely rough terrain and extensive archaeology on the topographical benches.

Production from the Ballard Pictured Cliffs pool is to be included in a standard 160 gas spacing and proration unit comprising the northeast quarter (NE/4) of said Section 11. Attached is a map showing the proposed non-standard location for the subject well. This map also shows the other wells in Section 11, T-25-N, R-8-W.

The Quitzau #8 (30-045-13306) was originally drilled and completed at 1204' FNL, 1160' FEL as a single Ballard Pictured Cliffs well in 1955. In September 1993 the well was plugged and abandoned.

The following attachments are for your review:

1. Application for Permit to Drill.
2. Completed C-102 at referenced location.
3. Offset operators/owners plat
4. 7.5 minute topographic map showing the orthodox windows, and enlargement of the map to define topographic features.

Three copies of this application are being submitted to all offset owners/ operators by certified mail with a request that they furnish you with a Waiver of Objection, return one copy to this office, and retain one copy for their file.

We appreciate your earliest consideration of this application.

Sincerely,

A handwritten signature in cursive script, appearing to read "Peggy Bradfield".

Peggy Bradfield  
Regulatory/Compliance Administrator

## WAIVER


\_\_\_\_\_ hereby waives objection to Burlington Resources' application for a non-standard location for their Hanks #5R as proposed above.

By: \_\_\_\_\_ Date: \_\_\_\_\_

xc: Redwolf Production  
Taurus Exploration USA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a.	Type of Work DRILL	5. Lease Number NM-04224 Unit Reporting Number
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator <b>BURLINGTON RESOURCES</b> Oil & Gas Company	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name Quitza 9. Well Number 8R
4.	Location of Well 2100' FNL, 2255' FEL  Latitude 36° 24.9, Longitude 107° 39.0	10. Field, Pool, Wildcat Ballard Pic.Cliffs 11. Sec., Twn, Rge, Mer. (NMPM) Sec 11, T-25-N, R-8-W API # 30-045-
14.	Distance in Miles from Nearest Town 10 miles to Huerfano	12. County SJ 13. State NM
15.	Distance from Proposed Location to Nearest Property or Lease Line 2100'	
16.	Acres in Lease	17. Acres Assigned to Well 160
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1900'	
19.	Proposed Depth 2975'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 7117' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: <u></u> Regulatory/Compliance Administrator	<u>1/17/98</u> Date

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Archaeological Report to be submitted  
Threatened and Endangered Species Report to be submitted  
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3  
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 presentations as to any matter within its jurisdiction.

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

District II  
PO Drawer 00, 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 C-10  
Revised February 21, 199  
Instructions on Back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number <b>30-045</b>		*Pool Code <b>71439</b>	*Pool Name <b>Ballard Pictured Cliffs</b>
*Property Code <b>7408</b>	*Property Name <b>QUITZAU</b>		*Well Number <b>8R</b>
*OGRID No. <b>14538</b>	*Operator Name <b>BURLINGTON RESOURCES OIL &amp; GAS COMPANY</b>		*Elevation <b>7117'</b>

<sup>10</sup> Surface Location

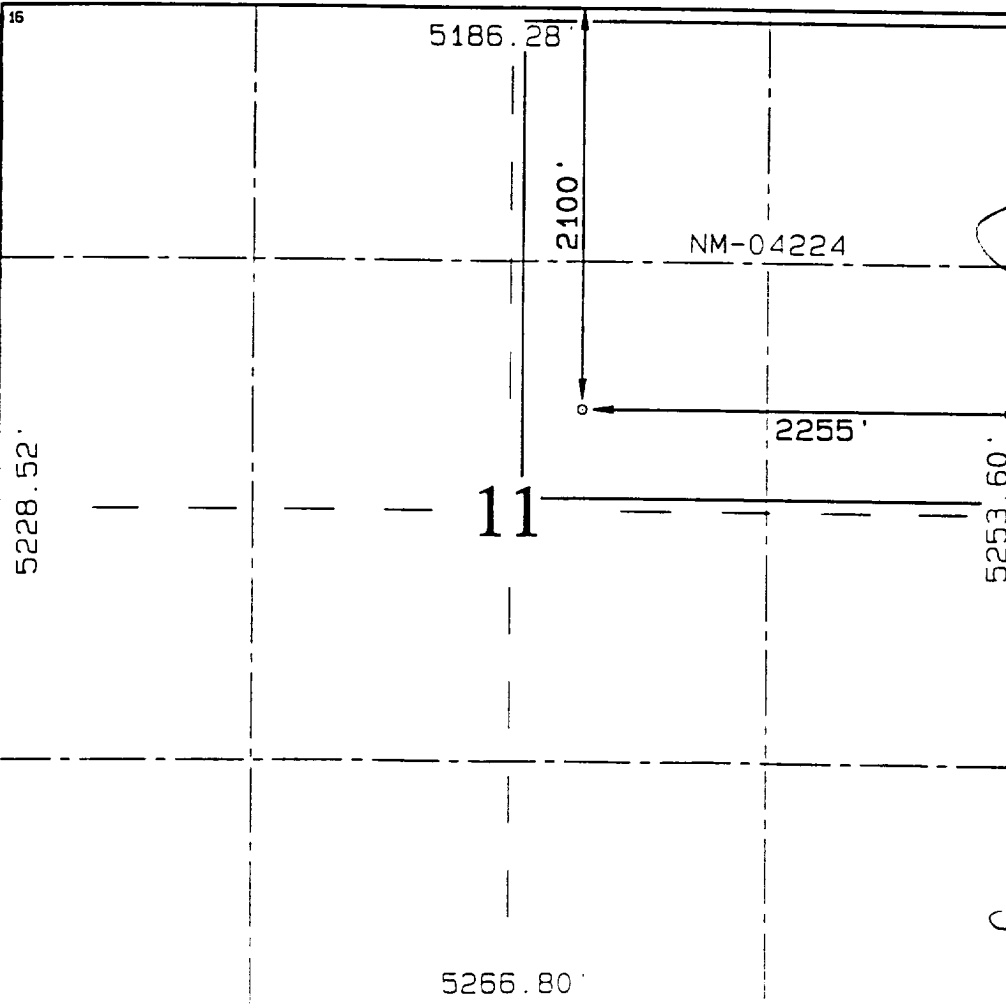
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
G	11	25N	8W		2100	NORTH	2255	EAST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

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

<sup>12</sup> Dedicated Acres <b>160</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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



<sup>17</sup> OPERATOR CERTIFICATION

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

*Peggy Bradfield*  
Signature

**Peggy Bradfield**  
Printed Name

**Regulatory Administrator**  
Title

*1/17/98*  
Date

<sup>18</sup> SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

**JANUARY 28, 1998**  
Date of Survey

Signature and Seal of the Surveyor

**NEALE C. EDWARDS**  
NEW MEXICO  
6857  
Professional Surveyor  
Certificate Number

April 17, 1998

OPERATIONS PLAN

**Well Name:** Quitzau #8R  
**Location:** 2100' FNL, 2255' FEL Section 11, T-25-N, R-8-W  
 San Juan County, New Mexico  
 Latitude 36° 24.9', Longitude 107° 39.0  
**Formation:** Ballard Pictured Cliffs  
**Elevation:** 7117' GL

<b>Formation:</b>	<b>Top</b>	<b>Bottom</b>	<b>Contents</b>
Surface	Nacimiento	1997'	
Ojo Alamo	1997'	2172'	aquifer
Kirtland	2172'	2634'	
Fruitland	2634'	2750'	
Upper Coal	2676'	2735'	gas
Basal Coal	2735'	2750'	gas
Pictured Cliffs	2750'		gas
Total Depth		2975'	

**Logging Program:** Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

**Mud Program:**

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120-2975'	LSND	8.4-9.0	40-60	no control

**Casing Program (as listed, equivalent, or better):**

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csq. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0 - 120'	7"	20.0#	J-55
6 1/4"	0 - 2975'	3 1/2"	7.7#	WC-70

**Tubing Program:** - none

**Float Equipment:** 7" surface casing - saw tooth guide shoe.  
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 2172'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2172'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

**Wellhead Equipment:** 7" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

**Cementing:**

7" surface casing - cement with 46 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/208 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (499 cu.ft. of slurry, 75% excess to circulate to surface). WOC 8 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

**BOP and tests:**

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

**Additional information:**

- \* The Pictured Cliffs formation will be completed.
- \* Anticipated pore pressure for the Fruitland Coal is 300 psi and for the Pictured Cliffs is 600 psi.
- \* This gas is dedicated.
- \* The northeast quarter of the section is dedicated to the Pictured Cliffs.
- \* New casing will be utilized.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

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Drilling Engineer

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Date

# ***BURLINGTON RESOURCES***

Quitau #8R

## Multi-Point Surface Use Plan

1. Existing Roads - Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
2. Planned Access Road - Refer to Map No. 1. The required new access road is shown on Map No. 1. The gradient, shoulder, crowning and other design elements will meet or exceed those specified by the responsible government agency. The new access road surface will not exceed twenty feet (20') in width. No additional turnarounds or turnouts will be required. Upon completion of the project, the access road will be adequately drained to control soil erosion. Approximately of access road will be constructed. Pipelines are indicated on Map No. 1A.
3. Location of Existing Wells - Refer to Map No. 1A.
4. Location of Existing and/or Proposed Facilities if Well is Productive -
  - a. On the Well Pad - Refer to Plat No. 1, anticipated production facilities plat.
  - b. Off the Well Pad - Anticipated pipeline facilities as shown on the attached plat from El Paso Field Services.
5. Location and Type of Water Supply - Water will be hauled by truck for the proposed project and will be obtained from Palluche Wash Water Hole located NE/4 Section 17, T-25-N, R-7-W, New Mexico
6. Source of Construction Materials - If construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.
7. Methods of Handling Waste Materials - All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying waste materials into the watershed. Reserve pits will be lined as needed with either 12 mil bio-degradable plastic liner or a bentonite liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.
8. Ancillary Facilities - None anticipated.
9. Wellsite Layout - Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.
11. Surface Ownership - Bureau of Land Management
12. Other Information - Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
13. Operator's Representative and Certification - Burlington Resources Oil & Gas Company Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan, are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Burlington Resources Oil and Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Regulatory/Compliance Administrator      4-17-98  
Date

pb

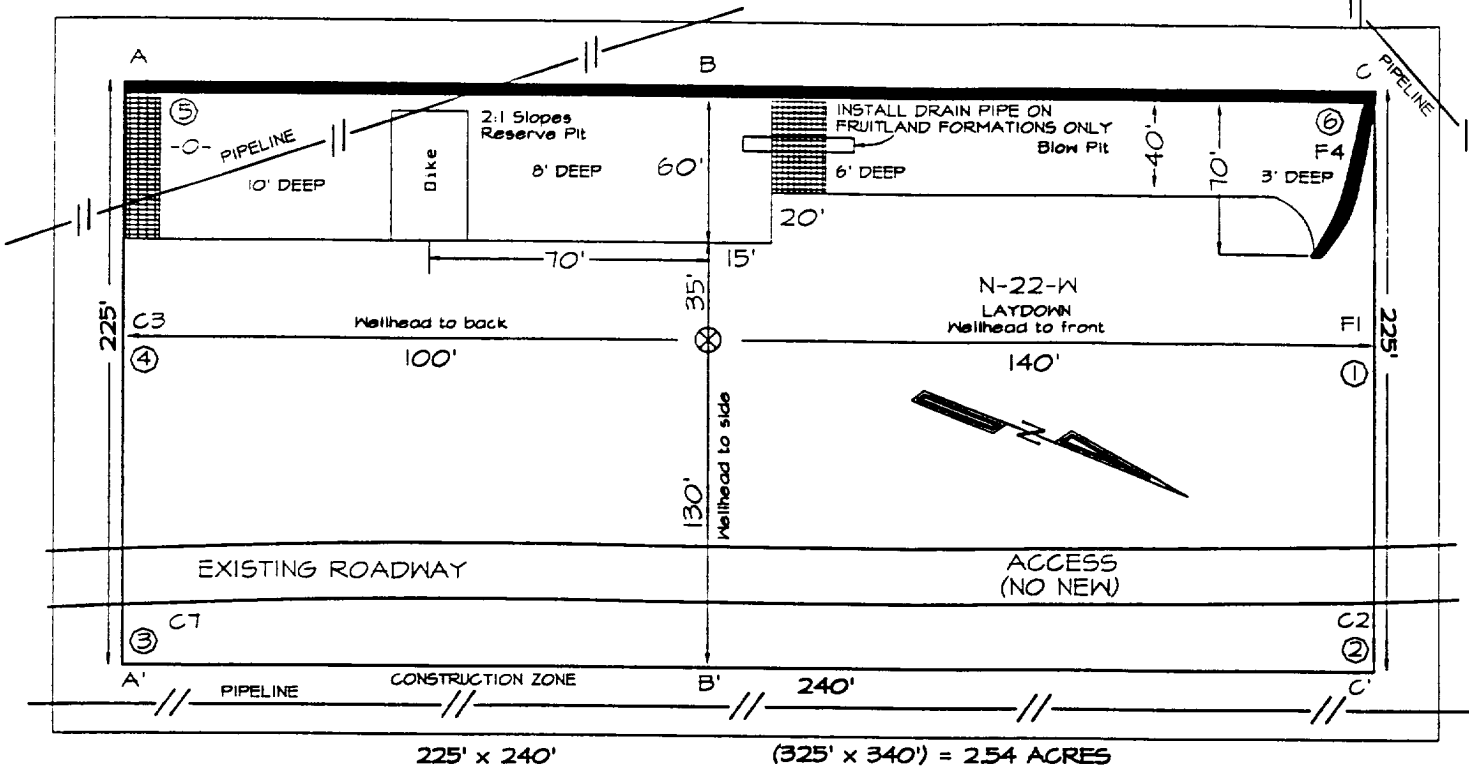






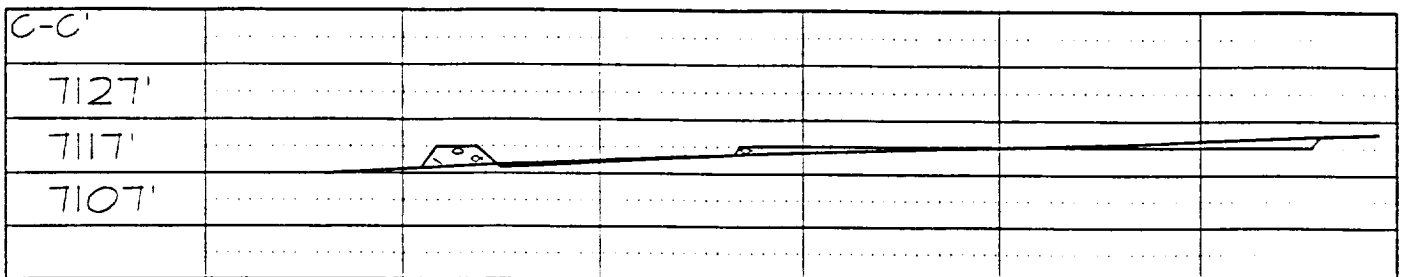
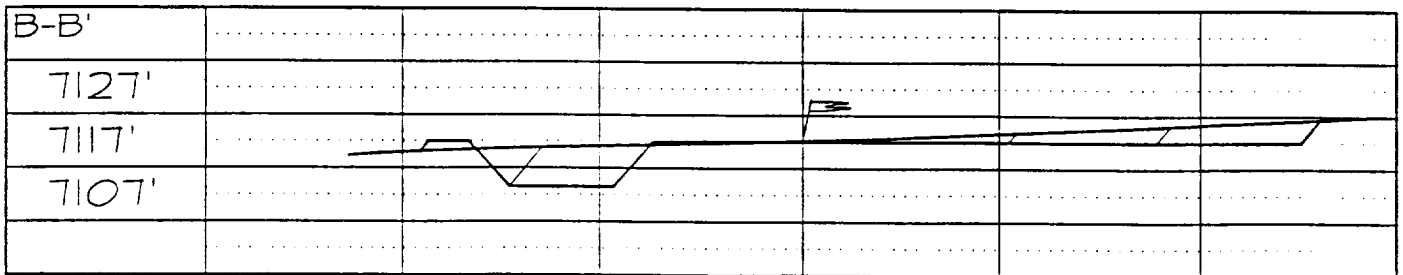
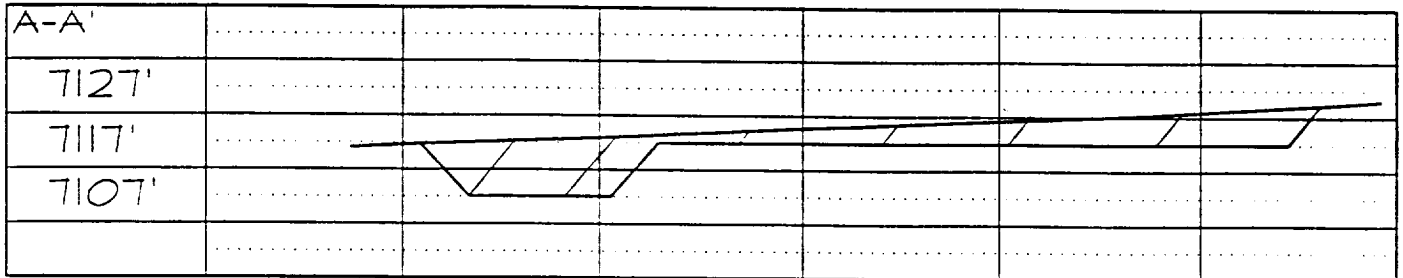
**PLAT #1**

**BURLINGTON RESOURCES OIL & GAS COMPANY**  
**QUITZAU #8 2100' FNL & 2255' FEL**  
**SECTION 11, T25N, R8W, NMPM, SAN JUAN COUNTY, NEW MEXICO**  
**GROUND ELEVATION: 7117' DATE: JANUARY 28, 1998**



225' x 240' (325' x 340') = 2.54 ACRES

Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side).  
 Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit.



Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

**BURLINGTON RESOURCES OIL AND GAS COMPANY**

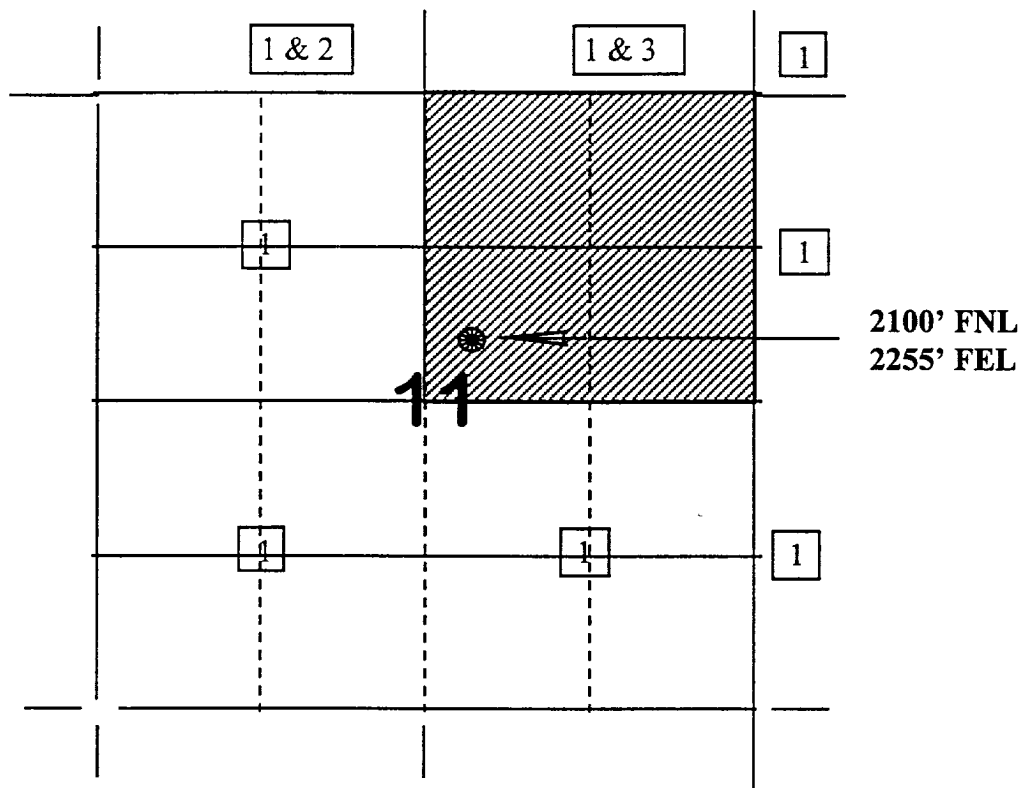
**Quitzeau #8R**

**OFFSET OPERATOR/OWNER PLAT**

**Non Standard Location**

**Pictured Cliffs Formation Well**

**Township 25 North, Range 8 West**



- 1) Burlington Resources
- 2) Redwolf Production Inc.  
P.O. Box 5382  
Farmington, NM 87499
- 3) Taurus Exploration U.S.A.  
2198 Bloomfield Highway  
Farmington, NM 87401

Re: Quitzau #8R  
2100'FNL, 2255'FEL, Section 11, T-25-N, R-8-W, San Juan County, New Mexico  
30-045-not assigned

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

Redwolf Production Inc.  
PO Box 5382  
Farmington, NM 87499

Taurus Exploration USA  
2198 Bloomfield Highway  
Farmington, NM 87401

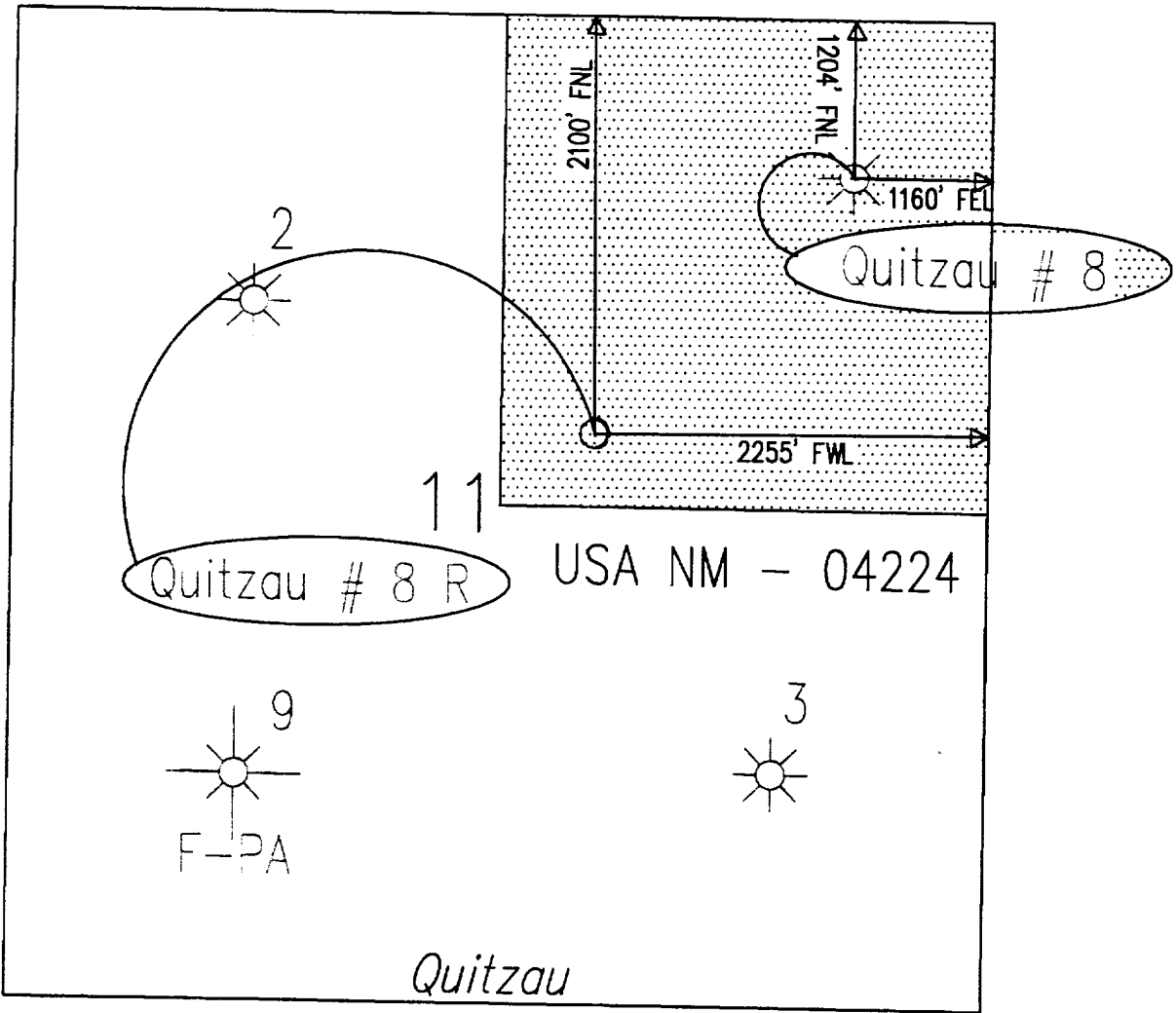


Peggy Bradfield  
Regulatory/Compliance Administrator





# WELL LOCATION PLAT



QUITZAU # 8 WELL  
 UNIT A (NENE) SECTION 11, T25N,R8W  
 (1204' FNL / 1160' FEL)

QUITZAU # 8 R WELL  
 UNIT G (SWNE) SECTION 11, T25N,R8W  
 (2100' FNL / 2255' FWL)  
 SAN JUAN CO., NEW MEXICO