

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2001 OCT - 2 PM 2:55  
070 71 123 30 30 12 3 17

1a. Type of Work  
DRILL

Lease Number  
SF-078081

Unit Reporting Number

1b. Type of Well  
GAS

6. If Indian, All. or Tribe

2. Operator  
**BURLINGTON RESOURCES** Oil & Gas Company

Unit Agreement Name  
Huerfanito Unit

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499  
(505) 326-9700

8. Farm or Lease Name  
Huerfanito Unit

9. Well Number  
26R

4. Location of Well  
930' FSL, 1295' FEL  
Latitude 36° 31.6'N, Longitude 107° 47.3'W

10. Field, Pool, Wildcat  
Ballard Pictured Cliffs

11. Sec., Twn, Rge, Mer. (NMPM)  
Sec. 33, T-27-N, R-9-W  
API # 30-045- 30865

14. Distance in Miles from Nearest Town  
26 miles from Bloomfield

12. County  
San Juan

13. State  
NM

15. Distance from Proposed Location to Nearest Property or Lease Line  
930'

16. Acres in Lease

17. Acres Assigned to Well  
160 SE/4

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease  
2000'

19. Proposed Depth  
2494'

This action is subject to technical and procedural review pursuant to 43 CFR 3165.2 and appeal pursuant to 43 CFR 3165.4.

20. Rotary or Cable Tools  
Rotary

21. Elevations (DF, FT, GR, Etc.)  
6536' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program  
See Operations Plan attached

24. Authorized by: [Signature]  
Regulatory/Compliance Supervisor

Date 9-28-01

OPERATING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

PERMIT NO.

APPROVAL DATE 10/29/01

APPROVED BY [Signature]

TITLE AFM minerals

DATE 10/29/01

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 II  
PO Drawer DD, Artesia, NM 88211-0719

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

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

## OIL CONSERVATION DIVISION

PO Box 2088-2 PM 2: 58  
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-30865	*Pool Code 71439	*Pool Name Ballard Pictured Cliffs
*Property Code 7138	*Property Name HUFANITO UNIT	*Well Number 26R
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	*Elevation 6536'


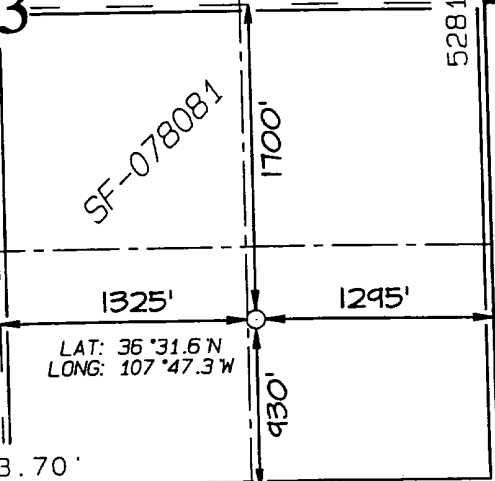
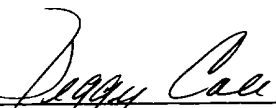

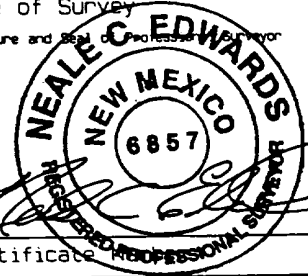
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	33	27N	9W		930	SOUTH	1295	EAST	SAN JUAN

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres SE/4 160				<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.		

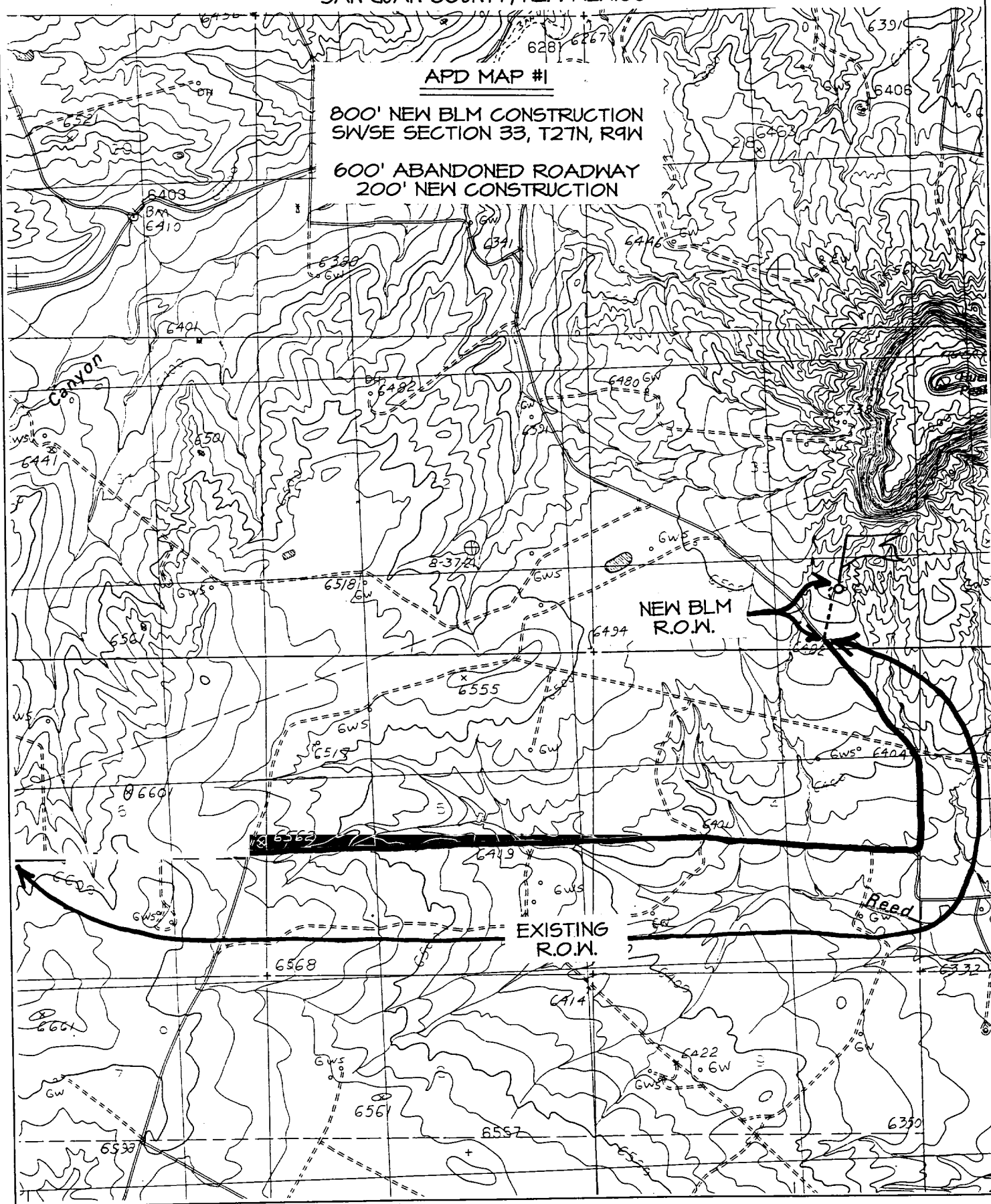
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div style="text-align: center;">5243.70'</div> <div style="text-align: center; font-size: 2em; font-weight: bold;">33</div> <div style="text-align: center; margin-top: 20px;">  </div> <div style="text-align: center; margin-top: 20px;">  </div> <div style="text-align: center;">5243.70'</div>	<div style="text-align: center;">5281.32'</div>	<div> <div>16</div> <div>5212.02'</div> </div> <div> <div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</div> <div style="margin-top: 20px;">   Signature </div> <div> Peggy Cole  Printed Name  Regulatory Supervisor  Title </div> <div> 9.28.01  Date </div> </div> <div> <div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div style="margin-top: 20px;"> JULY 28, 2001  Date of Survey </div> <div>   Signature and Seal of Registered Professional Surveyor </div> <div style="text-align: center;">  </div> <div> Certificate      6857 </div> </div>
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930' FSL & 1295' FEL, SECTION 33, T27N, R9W, N.M.P.M.  
SAN JUAN COUNTY, NEW MEXICO

800' NEW BLM CONSTRUCTION  
SW/SE SECTION 33, T27N, R9W

600' ABANDONED ROADWAY  
200' NEW CONSTRUCTION



## OPERATIONS PLAN

**Well Name:** Huerfanito Unit #26R  
**Location:** 930' FSL, 1295' FEL, Section 33, T-27-N, R-9-W  
San Juan County, New Mexico  
Latitude 36° 31.6', Longitude 107° 47.3'  
**Formation:** Ballard Pictured Cliffs  
**Elevation:** 6536' GR

Formation:	Top	Bottom	Contents
Surface	San Jose	1403'	
Ojo Alamo	1403'	1555'	aquifer
Kirtland	1555'	1898'	gas
Fruitland	1898'	2294'	gas
Pictured Cliffs	2294'		gas
<b>Total Depth</b>	<b>2494'</b>		

**Logging Program:** cased hole - CBL/GR/CCL TD to surface

**Coring Program:** None

**Mud Program:**

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2494'	FW	8.4-9.0	32-45	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
9 7/8"	0 - 120'	7"	20#	J-55
6 1/4"	0 - 2494'	2 7/8"	6.5#	J-55

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

2 7/8" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Seven centralizers run every 3rd joint to the base of the Ojo Alamo @ 1555'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1555'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

**Wellhead Equipment:** 7" x 2 7/8" 2000 psi screw on independent wellhead.

**Cementing:**

7" surface casing - cement with 27 sx Class A, B Portland Type I, II cement (32 cu.ft. of slurry, bring cement to surface through 3/4" line). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

2 7/8" production casing - Lead w/335 sx Premium Lite cement w/3% calcium chloride, 1/4 pps flocele, 5 pps LCM-1, 0.4% FL-52, and 0.4% SMS. Tail w/90 sx Type III cement w/1% calcium chloride, 1/4 pps flocele, and 0.2% FL-52 (838 cu.ft. of slurry, 100% excess to circulate to surface).

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

**BOP and tests:**

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

Completion - 7 1/16" 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.

**BOP and tests (If a coiled tubing drilling (CTD) rig is utilized.):**

Surface to TD: 7-1/16" 2000 psi (minimum) Torus annular BOP stack (Reference Figure #1b). Prior to drilling out surface casing, test annular BOP to 600psi/30 min.

Completion: 7-1/16" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test blind rams and casing to 1500 psi for 30 minutes; all pipe rams and casing to 1500 psi for 30 minutes each. **Same as in original APD operations plan.**

From surface to TD: choke manifold (Reference Figure #3). **Same as in original APD operations plan.**

The annular BOP will be actuated to close on drill pipe (coiled tubing) at least once each day and to close on open hole once each trip to test proper functioning.

**Additional information:**

- \* The Pictured Cliffs formation will be completed.
- \* Anticipated pore pressure for the Pictured Cliffs is 500 psi.
- \* This gas is dedicated.
- \* The southeast quarter of Section 33 is dedicated to the Pictured Cliffs.

Eric J. Giles  
Drilling Engineer

10/1/01  
Date