

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2001 JUN 19 PM 1:46

1a. Type of Work Deepen	5. Lease Number SF-080313 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 Harrison 9. Well Number 1A
4. Location of Well 810' FNL, 895' FWL Latitude 36° 56.78, Longitude 107° 55.78	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) D Sec. 31, T-32-N, R-10-W API # 30-045-21797
14. Distance in Miles from Nearest Town	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 810'	
16. Acres in Lease	17. Acres Assigned to Well 310.83 W/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease	
19. Proposed Depth 7570' This action is subject to technical and procedural review pursuant to 43 CFR 3105.3 and appeal pursuant to 43 CFR 3105.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6170' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See attached procedure	
24. Authorized by: <u>[Signature]</u> Regulatory/Compliance Supervisor	Date <u>6-19-01</u> DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

PERMIT NO. \_\_\_\_\_ APPROVAL DATE 6/28/01  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 6/28/01

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.

NR0000

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

State of New Mexico  
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

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Form C-102  
Revised February 21, 1994  
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 30-045-21797		Pool Code 72319/71599		Pool Name Blanco Mesaverde/Basin Dakota	
Property Code 18539		Property Name Harrison			Well Number 1A
OGRID No. 14538		Operator Name Burlington Resources Oil & Gas Company			Elevation 6170' GL

## Surface Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
D	31	32N	10W		810	North	895	West	San Juan

## Bottom Hole Location If Different From Surface

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

Dedicated Acres W/310.83	Joint or Infill	Consolidation Code	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

	Original plat from Fred B. Kerr Jr. 4-24-75.	<p><b>17 OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Peggy Cole</i></p> <p>Signature <b>Peggy Cole</b> Printed Name Regulatory Supervisor Title Date 3-28-01</p>
	31	<p><b>18 SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>Date of Survey Signature and Seal of Professional Surveyor: Certificate Number</p>

## OPERATIONS PLAN

**Well Name:** Harrison #1A  
**Location:** 810' FNL, 895' FWL, Sec. 31, T-32-N, R-10-W  
San Juan County, NM  
Latitude 36° 56.7798, Longitude 107° 55.7772  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 6170' GR

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1790'	
Ojo Alamo	1790'	1907'	aquifer
Kirtland	1907'	2540'	gas
Fruitland	2540'	2974'	gas
Pictured Cliffs	2974'	3200'	gas
Lewis	3200'	3662'	gas
Mesa Verde	3662'	4092'	gas
Chacra	4092'	4790'	gas
Massive Cliff House	4790'	4878'	gas
Menefee	4878'	5238'	gas
Massive Point Lookout	5238'	5400'	gas
Mancos	5400'	6600'	gas
Gallup	6600'	7247'	gas
Greenhorn	7247'	7307'	gas
Graneros	7307'	7365'	gas
Dakota	7365'		gas
TD	7570'		

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

<u>Mud Program:</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
<u>Interval</u>		<u>n/a</u>	<u>n/a</u>	<u>n/a</u>
5375-7570'	Air/N2			

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

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
3-7/8"	5371' - 7570'	2-7/8"	6.5#	J-55

**Tubing Program:** 0' - 7570' 1-1/4" 1.9# IJ

### Operations:

It is intended to deepen the subject well to the Dakota formation by pulling the 2-3/8" tubing. Drill to a new total depth of 7,570'. A 2-7/8" 6.5# J-55 flush joint casing string will be run in the well from surface to 7,570' and will be cemented with 56 sacks of Class G cement. The Dakota formation will then be selectively perforated and fracture stimulated. A 1-1/4" tubing string will be run in the well and the well will be returned to production as a Mesa Verde/Dakota commingle completion. A C-102 plat is attached.

The 2-7/8" casing will be cut and recovered at 5,371', 10' below the Point Lookout perforations and 9' above the intermediate casing shoe. Top of cement will be at 6,430', the midpoint in the Mancos formation between the Point Lookout and Gallup formations. 40% excess will be included. We are asking for a variance to the 100' overlap requirement to prevent overlapping current Mesa Verde perforations. The cement top is calculated to isolate the Gallup and Dakota formations yet not overlap existing Mesa Verde perforations.

**BOP Specifications, Wellhead and Tests:****Surface to Total Depth -**

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

**Completion Operations -**

7 1/16" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to drilling out, pipe rams, blind rams, well head, and manifold will be tested to 2000 psi for 15 minutes.

**Wellhead -**

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

**General -**

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

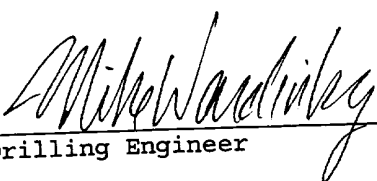
**Special Drilling Operations (Gas/Mist Drilling):**

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

**Additional Information:**

- The Dakota and Mesa Verde formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:  
Dakota 2500 psi

  
Drilling Engineer

6/19/01  
Date

**Harrison 1A**  
Unit D, Sec. 31, T32N, R10W  
San Juan County, NM

CURRENT

PROPOSED

