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-04226
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
BURLINGTON RESOURCES Oil & Gas Company

7. Unit Agreement Name

NOV 2001
RECEIVED
OIL CON. DIV
DIST. 3

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499

(505) 326-9700

8. Farm or Lease Name
McManus
9. Well Number
#8R

4. Location of Well
1305'FNL, 1110'FEL

Latitude 36° 26.9', Longitude 107° 43.1'

10. Field, Pool, Wildcat
Ballard Pict'd Cliffs
11. Sec., Twn, Rge, Mer. (NMPM)
A Sec.31, T-26-N, R-8-W
API # 30-045-30794

14. Distance in Miles from Nearest Town
32 miles from Bloomfield, NM

12. County San Juan **13. State** NM

15. Distance from Proposed Location to Nearest Property or Lease Line
1110'

16. Acres in Lease

17. Acres Assigned to Well
145.74 NE/4

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
126'

19. Proposed Depth
2220'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6366' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Peggy Cole
Regulatory/Compliance Supervisor Date 7-11-01

PERMIT NO. _____ **APPROVAL DATE** 10/31/01

APPROVED BY /s/ Matthews **TITLE** AFM minerals **DATE** 10/31/01

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.

NMOCD

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045- 30794	71439	Ballard Pictured Cliffs

[4] Property Code	[5] Property Name	[6] Well Number
7309	McMANUS	8R

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS INC.	6366

[10] Surface Location

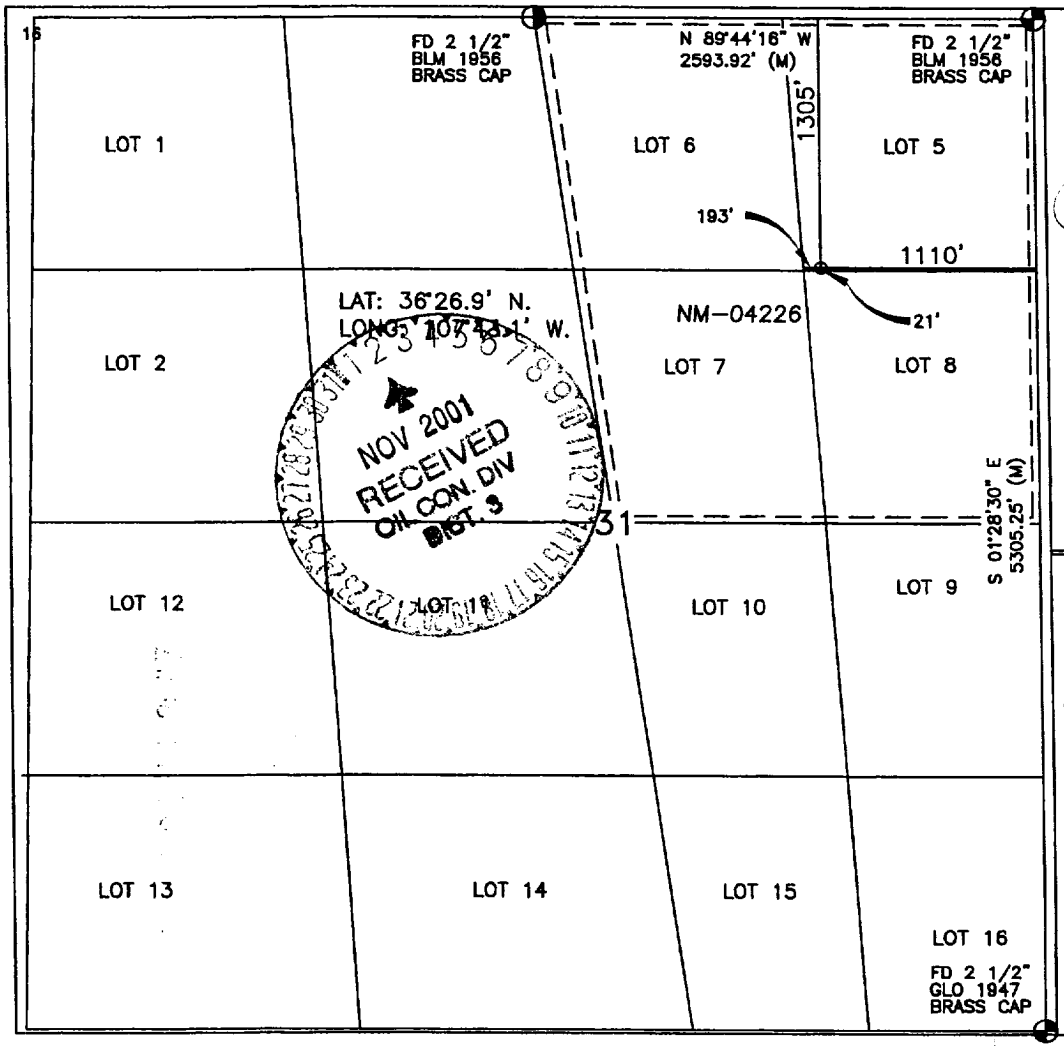
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	26-N	8-W		1305	NORTH	1110	EAST	SAN JUAN

[11] 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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
PC 145.74 NE			

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



[17] OPERATOR CERTIFICATION

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

Peggy Cole
Signature

Peggy Cole
Printed Name

Regulatory Supervisor
Title

7-11-01
Date

[18] 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.

6-5-01
Date of Survey

Signature and Seal of Professional Surveyor

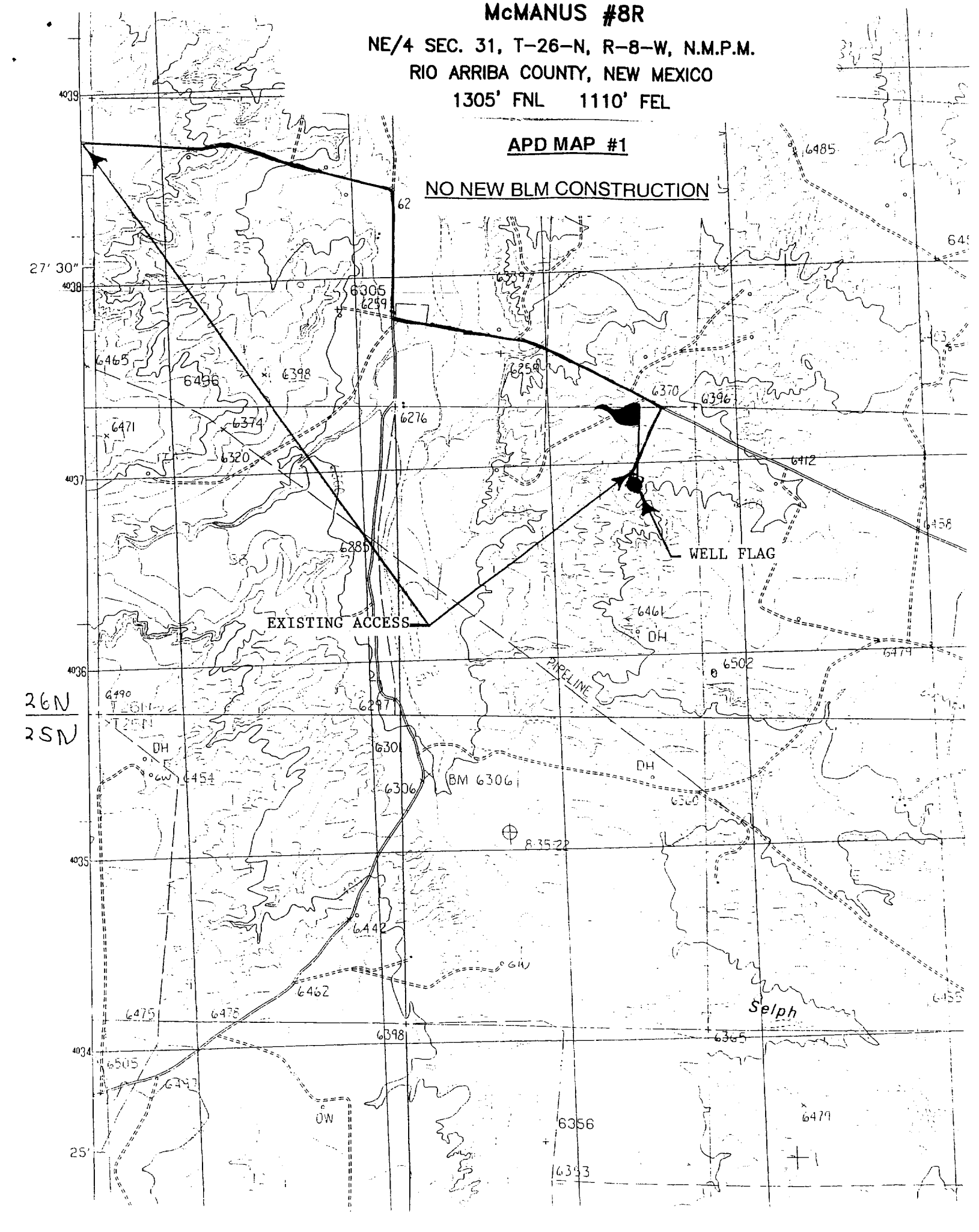
8894
Certificate Number

McMANUS #8R

NE/4 SEC. 31, T-26-N, R-8-W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO
1305' FNL 1110' FEL

APD MAP #1

NO NEW BLM CONSTRUCTION



OPERATIONS PLAN

Well Name: McManus #8R
Location: 1305'FNL, 1110'FEL, Section 31, T-26-N, R-8-W
San Juan County, New Mexico
Latitude 36° 26.9', Longitude 107° 43.1'
Formation: Ballard Pictured Cliffs
Elevation: 6366'GR

Formation:	**Top**	**Bottom**	**Contents**
Surface	San Jose	1249'	
Ojo Alamo	1249'	1339'	aquifer
Kirtland	1339'	1775'	gas
Fruitland	1775'	2013'	gas
Pictured Cliffs	2013'		gas
Total Depth	**2220'**		

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
120-2220'	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 - 2220'	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 @ 1339'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1339'. 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 ¾" line). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

2 7/8" production casing - Lead w/291 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 (746 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 northeast quarter of Section 31 is dedicated to the Pictured Cliffs.

Erin J. Giles
Drilling Engineer

7/13/01
Date