

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work  
DRILL

1b. Type of Well  
GAS

2. Operator  
**BURLINGTON RESOURCES** Oil & Gas Company  
14538

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

4. Location of Well  
670' FSL, 1865' FEL  
Latitude 36° 38.5, Longitude 107° 19.5

5. Lease Number  
SF-079509A

6. If Indian, All. or Tribe

7. Unit Agreement Name  
San Juan 28-5 Unit  
7460

8. Farm or Lease Name  
San Juan 28-5 Unit

9. Well Number  
103M

10. Field, Pool, Wildcat  
12319 Blanco MV/Basin Dk 71599

11. Sec., Twn, Rge, Mer. (NMPM)  
Sec 23, T-28-N, R-5-W  
API # 30-039-25957

12. County  
Rio Arriba

13. State  
NM

14. Distance in Miles from Nearest Town  
6 miles

15. Distance from Proposed Location to Nearest Property or Lease Line  
670'

16. Acres in Lease

17. Acres Assigned to Well  
320 E/2-Dk; S/2-MV

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease  
3000'

19. Proposed Depth  
8845'

20. Rotary or Cable Tools  
Rotary

21. Elevations (DF, FT, GR, Etc.)  
7468'

22. Approx. Date Work will Start  
4-27-98

23. Proposed Casing and Cementing Program  
See Operations Plan attached

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

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

RECEIVED  
AUG 25 1998  
OIL CON. DIV.  
DIST. 3

RECEIVED  
50 JUL 15 PM 2:08

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY AS/ Duane W. Spencer

TITLE \_\_\_\_\_

DATE AUG 21 1998

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.

NSA-4066 (2)

NMOCD

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-  
Revised February 21, 1988  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Cop  
Fee Lease - 3 Cop

District II  
PO Drawer 00, Artesia, NM 88211-0719

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

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

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

1998 JUN 15 PM 2:03 AMENDED REPORT

070 EAST ARIZONA, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-25957		2 Pool Code 72319/71599		3 Pool Name Blanco Mesaverde/Basin Dakota	
4 Property Code 7460		5 Property Name SAN JUAN 28-5 UNIT			6 Well Number 103M
7 GRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			9 Elevation 7468'

10 Surface Location

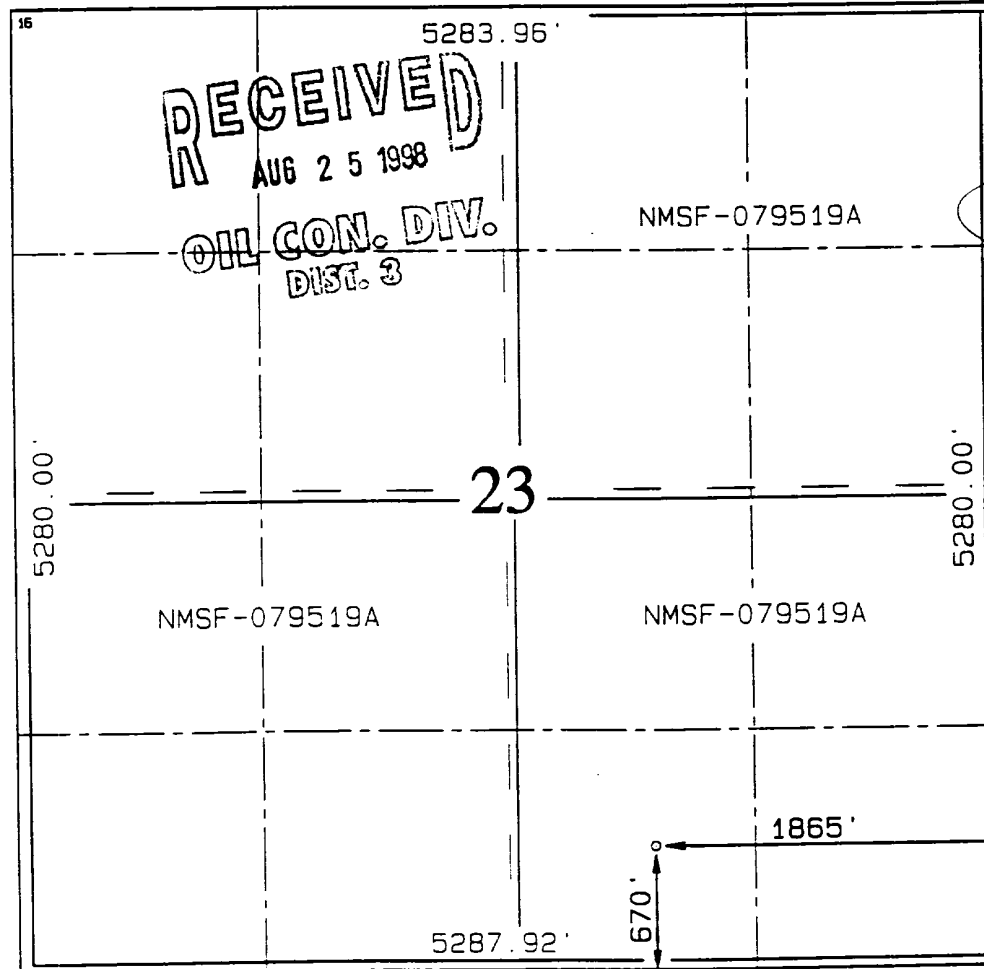
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	28N	5W		670	SOUTH	1865	EAST	RIO ARIZONA

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 MV-S/320, DK-E/320				13 Joint or Infill		14 Consolidation Code		15 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



17 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  
4-27-98  
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.

APRIL 2, 1998  
Date of Survey  
Signature and Seal of Professional Surveyor  
*Neale G. Edwards*  
NEALE G. EDWARDS  
NEW MEXICO  
6857  
Professional Surveyor  
Certificate Number

OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #103M  
Location: 670' FSL, 1865' FEL Sec 23, T-28-N, R-5-W  
Rio Arriba County, NM  
Latitude 36° 38.5, Longitude 107° 19.5  
Formation: Blanco Mesa Verde/Basin Dakota  
Elevation: 7468' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	3736'	
Ojo Alamo	3736'	3900'	aquifer
Kirtland	3900'	3992'	
Fruitland	3992'	4385'	gas
Pictured Cliffs	4385'	4495'	gas
Lewis	4495'	5051'	gas
<b>Intermediate TD</b>	<b>4595'</b>		
Huerfanito Bentonite	5051'	5367'	gas
Chacra	5367'	6168'	
Massive Cliff House	6168'	6241'	gas
Menefee	6241'	6522'	gas
Massive Point Lookout	6522'	7142'	gas
Mancos Shale	7142'	7756'	
Gallup	7756'	8510'	gas
Greenhorn	8510'	8660'	gas
Dakota	8660'		gas
TD (4 1/2" liner)	8845'		

Logging Program:

Cased hole - CBL - TD to 200' above TOC, GR/CNL across MV/Dk

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200-4595'	LSND	8.4-9.0	30-60	no control
4595-8845'	Gas/Air	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the 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' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 4595'	7"	20.0#	J-55
6 1/4"	4495' - 8845'	4 1/2"	10.5#	K-55

Tubing Program:

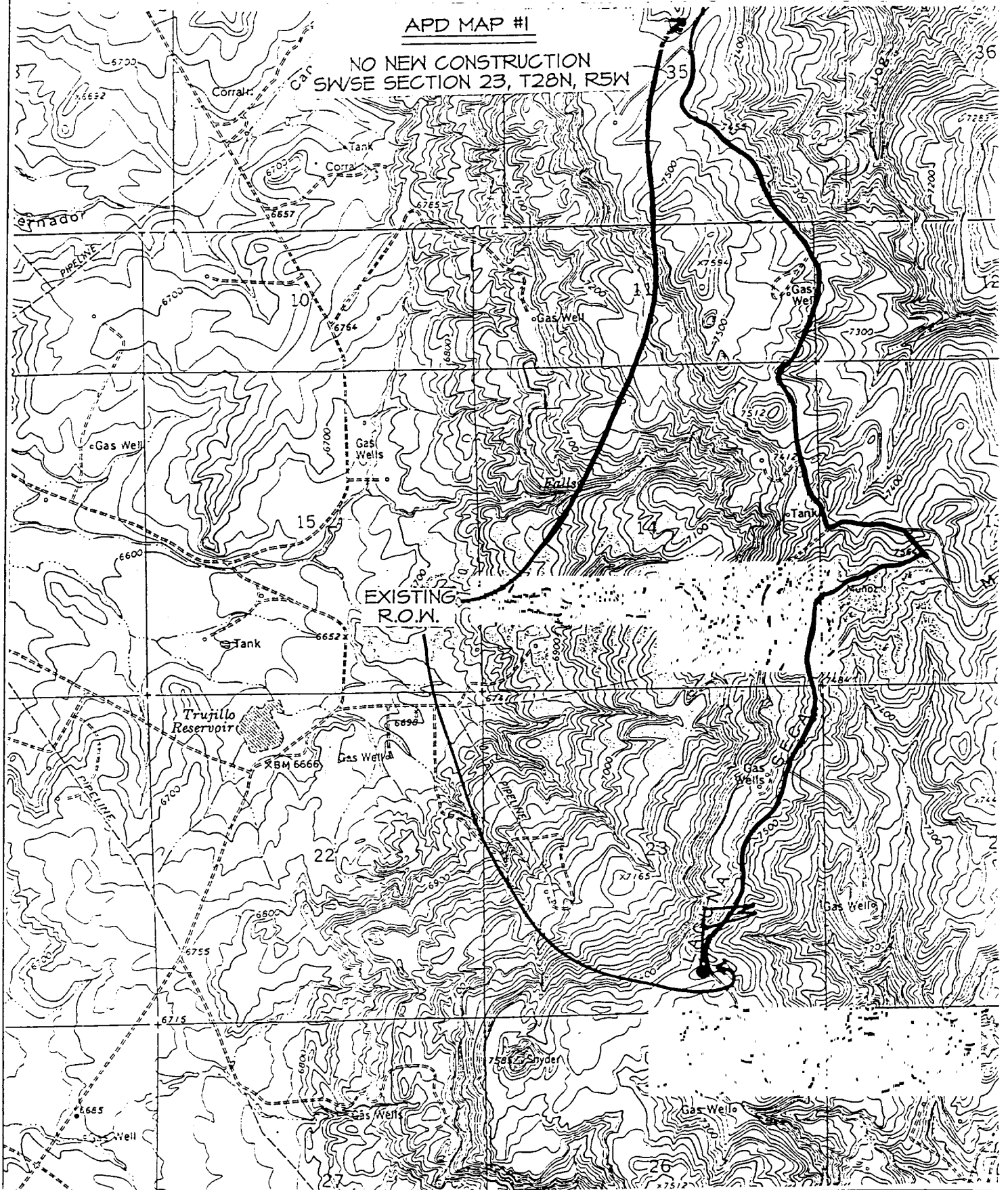
0' - 8845'      2 3/8"      4.70# EUE

BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 28-5 UNIT #103M

670' FSL & 1865' FEL, SECTION 23, T28N, R5W, N.M.P.M.  
RIO ARRIBA COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION  
SWSE SECTION 23, T28N, R5W





NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

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

June 25, 1998

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

RECEIVED  
JUL 1 1998  
OIL CON. DIV.  
DIST. 3

# 103M  
23-28-5

Administrative Order NSL-4066

Dear Ms. Bradfield:

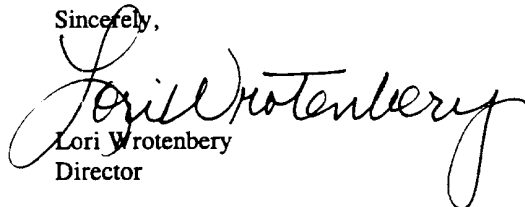
Reference is made to your application dated June 22, 1998 for an exception to the well location requirements provided within the "Special Rules and Regulations for the Blanco-Mesaverde Pool/Special Rules and Regulations for the Basin-Dakota Pool," as promulgated by Division Order No. R-10987, for Burlington Resources Oil & Gas Company's ("Burlington") proposed San Juan "28-5" Unit Well No. 103-M to be drilled at an unorthodox "infill" gas well location in both the Blanco-Mesaverde and Basin-Dakota Pools 670 feet from the South line and 1865 feet from the East line (Unit O) of Section 23, Township 28 North, Range 5 West, NMPM, Rio Arriba County, New Mexico.

Gas production from the Blanco-Mesaverde Pool is to be included in an existing standard 320-acre lay-down gas spacing and proration unit comprising the S/2 of Section 23 which is currently dedicated to Burlington's San Juan "28-5" Unit Well No. 55 (API No. 30-039-07369), located at a standard gas well location 1800 feet from the South line and 1020 feet from the West line (Unit L) of Section 23. Gas production from the Basin-Dakota Pool is to be included in an existing standard 320-acre stand-up gas spacing and proration unit comprising the E/2 of Section 23, which is currently dedicated to Burlington's San Juan "28-5" Unit Well No. 103 (API No. 30-039-21866), located at a standard gas well location 1840 feet from the North line and 1190 feet from the East line (Unit H) of Section 23.

The application has been duly filed under the provisions of Rules 104.F and 605.B of the Rules and Regulations of the New Mexico Oil Conservation Division ("Division").

By the authority granted me under the provisions of Division Rule 104.F(2), the above-described unorthodox Basin-Dakota/Blanco-Mesaverde "infill" gas well location for the San Juan "28-5" Unit Well No. 103-M is hereby approved. All of the aforementioned wells and both spacing units will be subject to all existing rules, regulations, policies, and procedures applicable to prorated gas pools in Northwest, New Mexico.

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

June 22, 1998

Sent Federal Express

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

RECEIVED  
R JUN 23 1998

OIL CONSERV. DIV.  
SANTA FE, N.M.

Re: San Juan 28-5 Unit #103M  
670'FSL, 1865'FEL, Section 23, T-28-N, R-5-W, Rio Arriba County, NM  
30-039-not assigned

Dear Ms. Wrotenbery:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Blanco Mesa Verde and Basin Dakota pools. This application for the referenced location is for topographic and archaeological reasons, and at the request of the Bureau of Land Management.

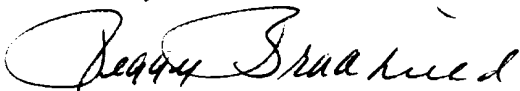
Production from the Blanco Mesa Verde pool is to be included in a standard 320 acre gas spacing and proration unit comprising of the south half (S/2) of Section 23 which is currently dedicated to the San Juan 28-5 Unit #55 (30-039-07369) located at 1800'FSL, 1020'FWL of Section 23. Production from the Basin Dakota is to be included in a standard 320 acre gas spacing and proration unit comprising of the east half (E/2) of Section 23 which is currently dedicated to the San Juan 28-5 Unit #103 (30-039-21866) located at 1840'FNL, 1190'FEL of Section 23.

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, and enlargement of the map to define topographic features.

We appreciate your earliest consideration of this application.

Sincerely,




Peggy Bradfield  
Regulatory/Compliance Administrator

xc: NMOCD - Aztec District Office  
Bureau of Land Management - Farmington District Office

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	<b>RECEIVED</b> JUN 29 1993 OIL & GAS DIV. BTLB	5. Lease Number SF-079519A
1b. Type of Well GAS		Unit Reporting Number 891000949A - Dk 8910009490 - MV
2. Operator <b>BURLINGTON RESOURCES</b> Oil & Gas Company	6. If Indian, All. or Tribe	7. Unit Agreement Name San Juan 28-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name San Juan 28-5 Unit	9. Well Number 103M
4. Location of Well 670' FSL, 1865' FEL  Latitude 36° 38.5, Longitude 107° 19.5	10. Field, Pool, Wildcat Blanco MV/Basin Dk	11. Sec., Twn, Rge, Mer. (NMPM) Sec 23, T-28-N, R-5-W API # 30-039-
14. Distance in Miles from Nearest Town 6 miles	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 670'	17. Acres Assigned to Well 320 E/2-Dk; S/2-MV	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 3000'	
19. Proposed Depth 8845'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7468'	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by:  Regulatory/Compliance Administrator	Date 4-27-98	

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

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form  
Revised February 2  
Instructions  
Submit to Appropriate District  
State Lease - 4  
Fee Lease - 3

District II  
PO Drawer 00, Artesia, NM 88211-0719

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

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

AMENDED RE

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7460	Property Name SAN JUAN 28-5 UNIT		Well Number 103M
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 7468'

<sup>10</sup> Surface Location

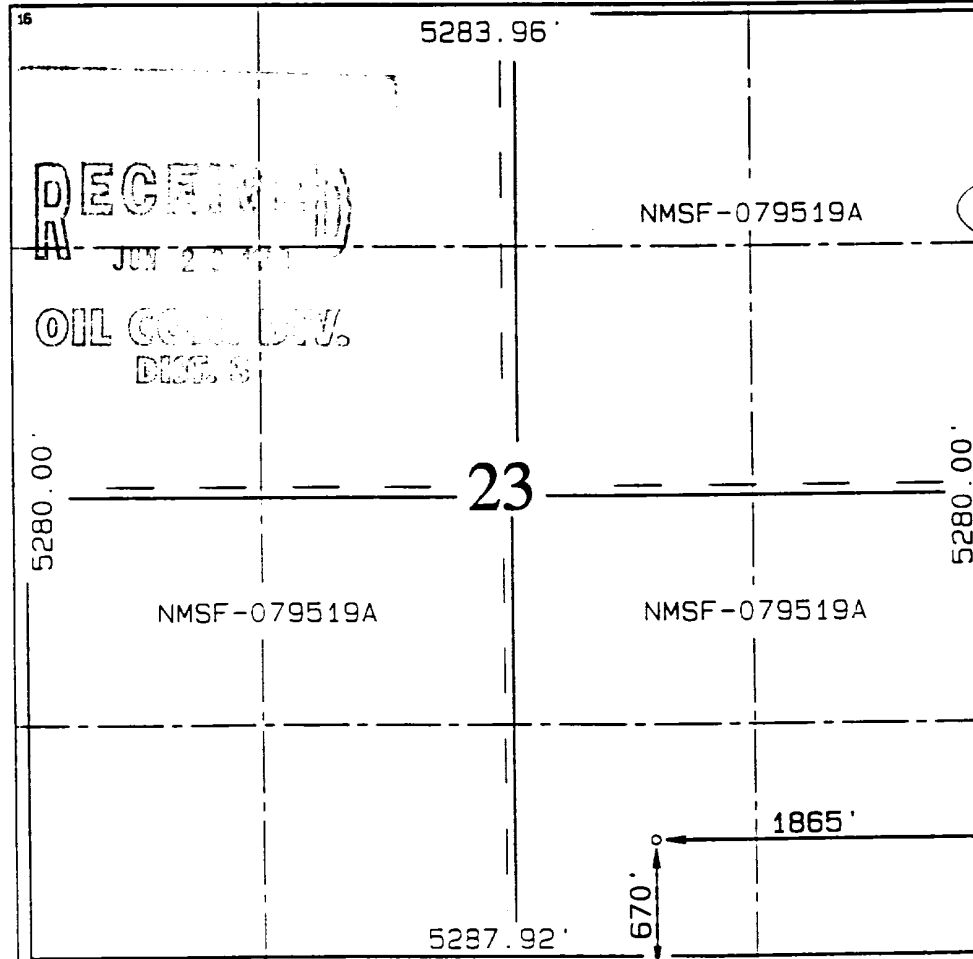
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Co. R. ARR
0	23	28N	5W		670	SOUTH	1865	EAST	

<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	Co.

Dedicated Acres MV-S/320, DK-E/320	Joint or Infill	Consolidation Code	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



<sup>17</sup> OPERATOR CERTIFICATION

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

*Peggy Bradfield*  
Signature  
Peggy Bradfield  
Printed Name  
Regulatory Administrator  
Title  
4-27-98  
Date

<sup>18</sup> SURVEYOR CERTIFICATION

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

APRIL 2, 1998  
Date of Survey  
Signature and Seal of Professional Surveyor  
  
Certification Number



## OPERATIONS PLAN

**Well Name:** San Juan 28-5 Unit #103M  
**Location:** 670' FSL, 1865' FEL Sec 23, T-28-N, R-5-W  
Rio Arriba County, NM  
Latitude 36° 38.5, Longitude 107° 19.5  
**Formation:** Blanco Mesa Verde/Basin Dakota  
**Elevation:** 7468' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	3736'	
Ojo Alamo	3736'	3900'	aquifer
Kirtland	3900'	3992'	
Fruitland	3992'	4385'	gas
Pictured Cliffs	4385'	4495'	gas
Lewis	4495'	5051'	gas
Intermediate TD	4595'		
Huerfanito Bentonite	5051'	5367'	gas
Chacra	5367'	6168'	
Massive Cliff House	6168'	6241'	gas
Menefee	6241'	6522'	gas
Massive Point Lookout	6522'	7142'	gas
Mancos Shale	7142'	7756'	
Gallup	7756'	8510'	gas
Greenhorn	8510'	8660'	gas
Dakota	8660'		gas
TD (4 1/2" liner)	8845'		

### Logging Program:

Cased hole - CBL - TD to 200' above TOC, GR/CNL across MV/Dk

### Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200-4595'	LSND	8.4-9.0	30-60	no control
4595-8845'	Gas/Air	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

### Casing Program (as listed, the 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' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 4595'	7"	20.0#	J-55
6 1/4"	4495' - 8845'	4 1/2"	10.5#	K-55

### Tubing Program:

0' - 8845'      2 3/8"      4.70# EUE

**BOP Specifications, Wellhead and Tests:****Surface to Intermediate TD -**

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

**Intermediate TD to Total Depth -**

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

**Surface to Total Depth -**

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

**Completion Operations -**

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top 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.

**Cementing:**

9 5/8" surface casing - cement with 163 sx Class "B" cement with 1/4# flocele/sx and 2% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

**7" intermediate casing -**

Lead w/310 sx Class "B" w/3% metasilicate, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride, 2% gel, 1/2# flocele/sx, 10# gilsonite/sx 1012 cu.ft. of slurry, 75% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 3900'. Two turbolating centralizers at the base of the Ojo Alamo at 3900'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

#### 4 1/2" Production Liner -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Cement with 467 sx 50/50 Class "B" Poz with 2% gel, 1/4# flocele/sx, 5# gilsonite/sx, and 0.4% fluid loss additive (621 cu.ft., 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. Instead, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" CIBP will be set above the last fracturing job to cut and pull the 4 1/2" casing above the 7" casing shoe. The 4 1/2" bridge plug will then be milled and the two strings of tubing will be run for a dual completion.

#### 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:

Fruitland Coal	800 psi
Pictured Cliffs	800 psi
Mesa Verde	700 psi
Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The east half is dedicated to the Dakota and and the south half is dedicated to this Mesa Verde in this well.
- This gas is dedicated.

---

Drilling Engineer

---

Date

# ***BURLINGTON RESOURCES***

San Juan 28-5 Unit #103M  
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. None required.
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 44 Crossing Water Hole located NE Section 18, T-27-N, R-4-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.

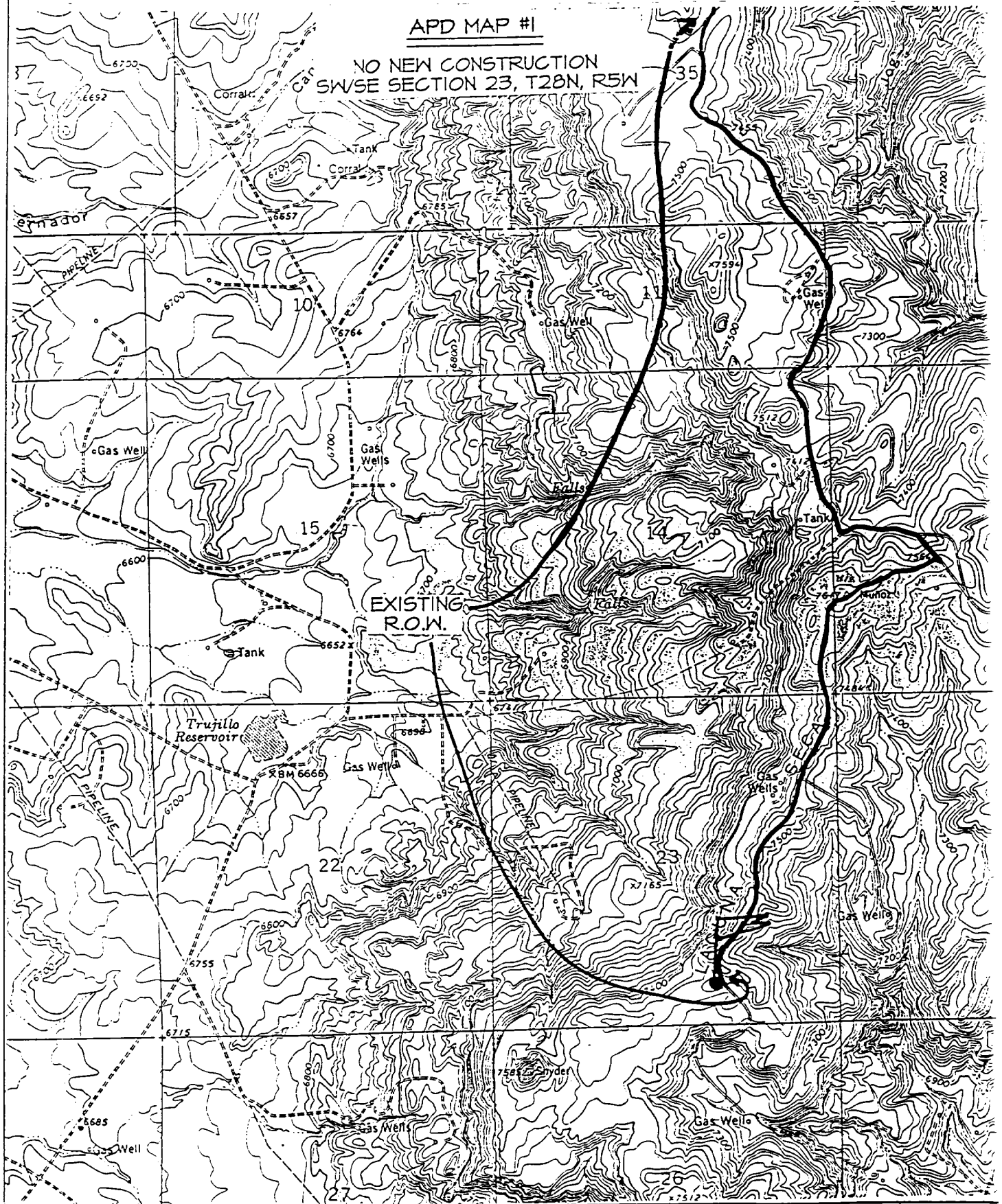
  
Regulatory/Compliance Administrator      4-27-98  
Date

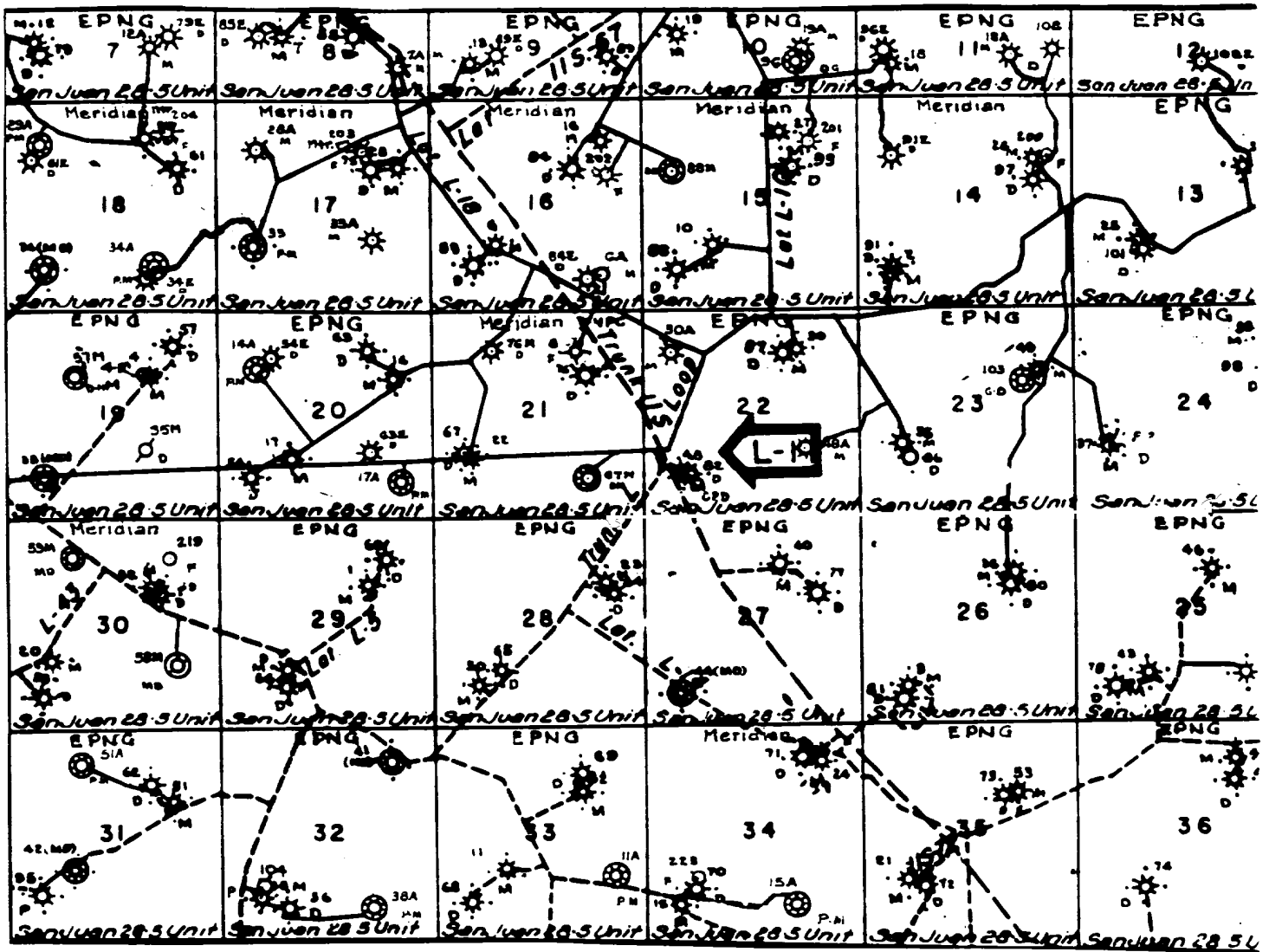
# BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 28-5 UNIT #103

670' FSL & 1865' FEL, SECTION 23, T28N, R5W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION  
SWSE SECTION 23, T28N, R5W



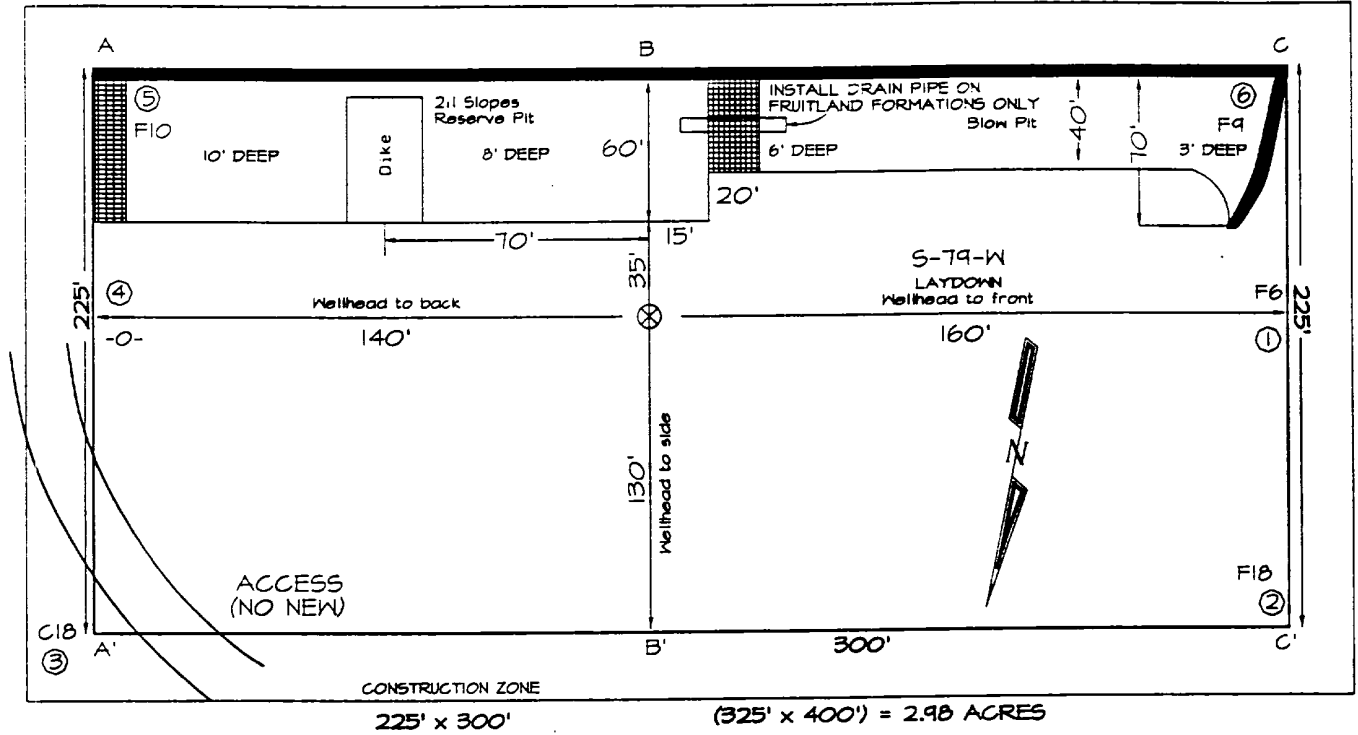


MERIDIAN OIL INC.  
 Pipeline Map  
 T-28-N, R-05-W  
 Rio Arriba County, New Mexico  
 San Juan 28-5 Unit #103M  
 map 1A

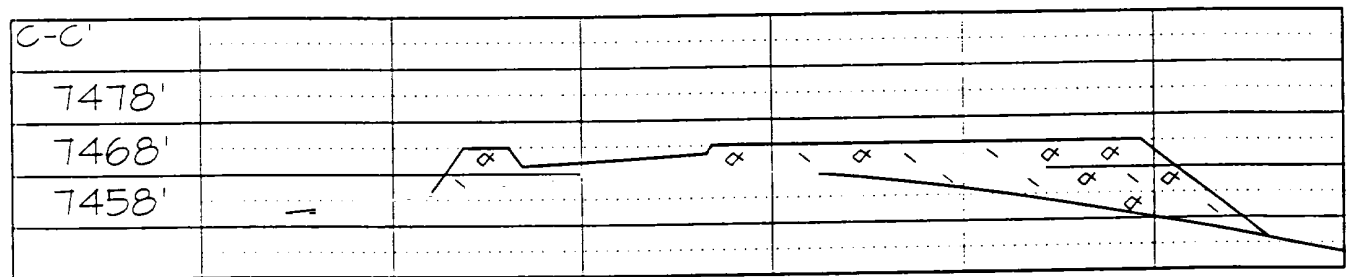
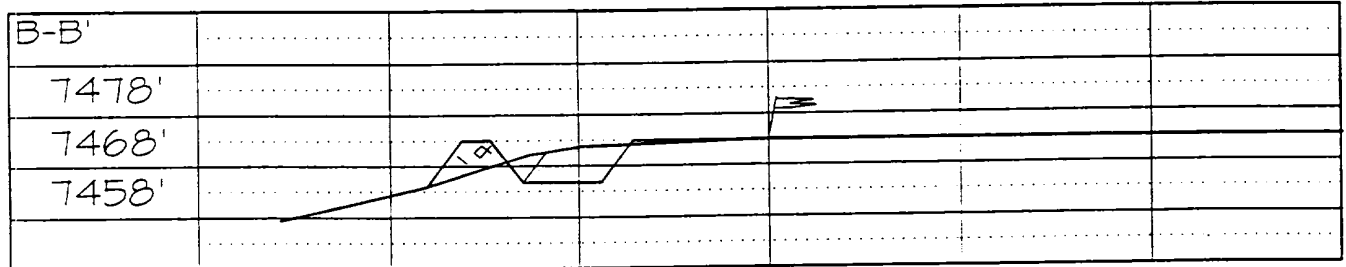
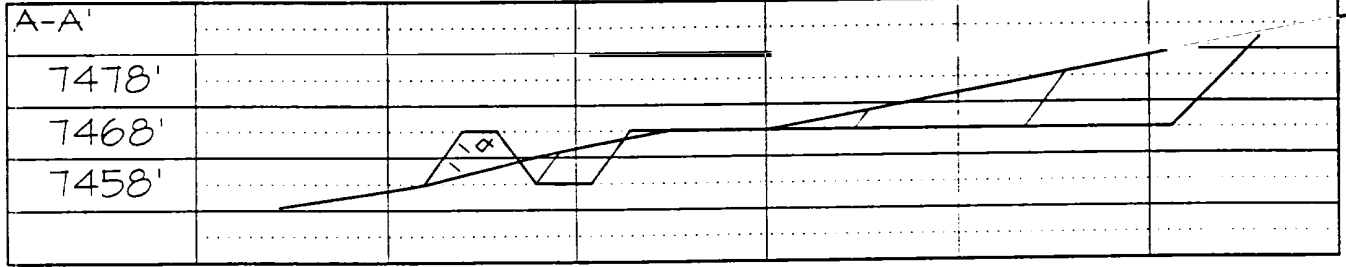


**PLAT #1**

**BURLINGTON RESOURCES OIL & GAS COMPANY**  
**SAN JUAN 28-5 UNIT #103M, 670' FSL & 1865' FEL**  
**SECTION 23, T28N, R5W, NMPM, RIO ARRIBA COUNTY, NEW MEXICO**  
**GROUND ELEVATION: 7468' DATE: APRIL 2, 1998**



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 p



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

**BURLINGTON RESOURCES OIL AND GAS COMPANY**

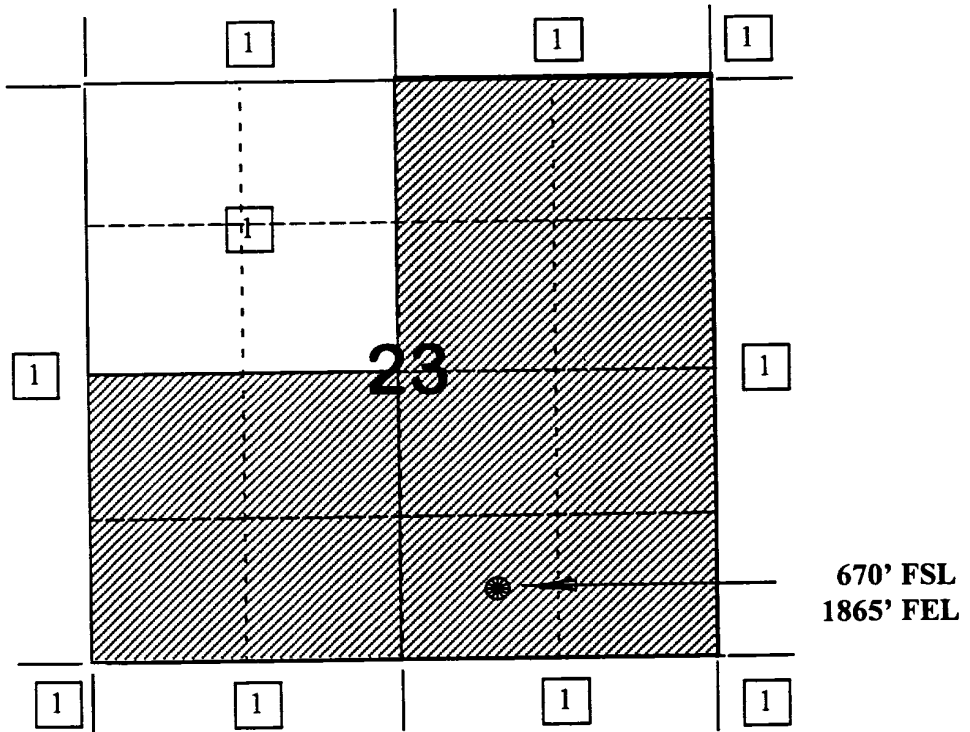
**San Juan 28-5 Unit #103M**

**OFFSET OPERATOR/OWNER PLAT**

**Nonstandard Location**

**Mesaverde (S/2) / Dakota (E/2) Formations Well**

**Township 28 North, Range 5 West**



1) Burlington Resources

