ABOVE THIS LINE FOR DIVISION USE ONLY

# NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -2040 South Pacheco, Santa Fe, NM 87505



ND-BIMV

# **ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE **Application Acronyms:** [NSL-Non-Standard Location] **INSP-Non-Standard Proration Unit1** [SD-Simultaneous Dedication] [DD-Directional Drilling] [PLC-Pool/Lease Commingling] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [PMX-Pressure Maintenance Expansion] [WFX-Waterflood Expansion] [SWD-Sait Water Disposal] [IPI-Injection Pressure Increase] [PPR-Positive-Production Response] [EOR-Qualified Enhanced Oll Recovery Certification] [1] TYPE OF APPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling [A] □ NSP OIL CONSERVATION DIVISION Check One Only for [B] or [C] Commingling - Storage - Measurement [B]☐ CTB □ PLC □ OLS □ OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX □ PMX □ EOR □ SWD ☐ IPI **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  $\square$  Does Not Apply [2] ☐ Working, Royalty or Overriding Royalty Interest Owners [A][B] ☐ Offset Operators, Leaseholders or Surface Owner [C] ☐ Application is One Which Requires Published Legal Notice [D]Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office ☐ For all of the above, Proof of Notification or Publication is Attached, and/or. [E] [F] ☐ Waivers are Attached

## [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. <u>I understand that any omission of data</u> (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

		pied Seglidm	
Print or Type Name	Signature	Title 2	Date

Note: Statement must be completed by an individual with managerial and/or supervisory canacity

# 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

Re:

San Juan 27-4 Unit #142A

2450'FSL, 1010'FEL, Section 21, T-27-N, R-4-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 pool. This application for the referenced location is for topographic and archaeological reasons, and especially at the request of the U.S. Forest Service that is the surface owner.

Production from the Blanco-Mesa-Verde is to be included in a standard 320 acre gas spacing and proration unit comprising of the east half (E/2) of Section 21 which is currently-dedicated to the San Juan 27-4 Unit #142 (30-039-22803) located at 860'FNL, 850'FEL of Section 21.

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.

Staahued

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 5. Lease Number SF-080674 DRILL **Unit Reporting Number** 891001054A 6. If Indian, All. or Tribe 1b. Type of Well GAS 2. Operator 7. Unit Agreement Name BURLINGTON RESOURCES Oil & Gas Company San Juan 27-4 Unit 3. Address & Phone No. of Operator 8. Farm or Lease Name PO Box 4289, Farmington, NM 87499 San Juan 27-4 Unit 9. Well Number (505) 326-9700 142A 10. Field, Pool, Wildcat 4. Location of Well 2450'FSL, 1010'FEL Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Latitude 36° 33' 30", Longitude 107° 15' 02" Sec 21, T-27-N, R-4-W API # 30-039-14. Distance in Miles from Nearest Town 12. County 13. State 60 miles to Bloomfield RA NM 15. Distance from Proposed Location to Nearest Property or Lease Line 1010' 16. Acres in Lease 17. Acres Assigned to Well 320 E/2 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 19. **Proposed Depth** 20. Rotary or Cable Tools 6523 Rotary 22. Approx. Date Work will Start 21. Elevations (DF, FT, GR, Etc.) 7111'GR 23. **Proposed Casing and Cementing Program** See Operations Plan attached 5-20-98 24. Regulatory/Compliance Administrator APPROVAL DATE PERMIT NO.

Archaeological Report to be submitted

APPROVED BY

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.

TITLE

DATE \_\_\_\_\_

District I PO Box 1980, Hobbs NM 88241-1980

State of New Mexico Energy, Minerais & Natural Resources Depa

Form C Revised February 21,

District II PO Drawer KK, Artesia, NM 87211-0719

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION PO Box 2088

Instructions on Submit to Appropriate District O

District III

Santa Fe, NM 87504-2088

State Lease - 4 C. Fee Lease - 3 C

District IV

AMENDED REP

PROFESSION

7016 Certificate Number

## PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 30-039-72319 Blanco Mesaverde Well Number # 142A 7452 SAN JUAN 27-4 UNIT 1 OGRID No. 14538 BURLINGTON RESOURCES OIL & GAS COMPANY 7111 Surface Location Bast/West line County Post from the UL or Lot No. Ranan Lot Ide **RIO ARF** SOUTH **EAST** 2450 1010 21 27 N 4 W I "Bottom Hole Location If Different From Surface East/West line Country UL or lot no. North/South inne Dedicated Acres D Joint or Infill <sup>14</sup> Consolidation Code NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDAT: OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION "OPERATOR CERTIFICATI I bereby certify that the information contained he true and complete to the best of my knowledge and rachuel NMSF - 080674 Date "SURVEYOR CERTIFICATI I hereby certify that the well location shown on th. 1010' was plotted from field notes of actual surveys made or under my supervision, and that the same is tr: correct to the best of my belief. April 21, 1998 Date of Survey Signature and So

#### OPERATIONS PLAN

Well Name: San Juan 27-4 Unit #142A

Location: 2450'FSL, 1010'FEL Section 21, T-27-N, R-4-W

Rio Arriba County, New Mexico

Latitude 36° 33′30″, Longitude 107° 15′02″

Formation: Blanco Mesa Verde

**Elevation:** 7111'GL

Formation Tops:	<u>Top</u>	Bottom	<u>Contents</u>
Surface	San Jose	3392'	aquifer
Ojo Alamo	3392'	3536′	aquifer
Kirtland	3536 <i>'</i>	3630′	
Fruitland	3630'	3980′	
Pictured Cliffs	3980'	4068'	gas
Lewis	4068'	4435'	gas
Intermediate TD	4168'		
Huerfanito Bentonite	4435'	4943′	
Chacra	4943'	5682′	
Massive Cliff House	5682′	5800′	gas
Menefee	5800'	6123'	gas
Massive Point Lookout	6123'		gas
Total Depth	6523'		

### Logging Program:

Cased hole logging - Gamma Ray Neutron Coring/DST - none

#### Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200-4168'	LSND	8.4-9.0	30-60	no control
4168-6523'	Gas/Mist	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>	Depth Interval	<u>Csq.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 4168'	7"	20.0#	J-55
6 1/4"	4068' - 6523'	4 1/2"	10.5#	J-55

#### Tubing Program:

0' - 6523' 2 3/8" 4.7# J-55

# 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.

Operations Plan - San Juan 27-4 Unit #142A

## BOP Specifications, Wellhead and Tests (cont'd):

#### 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 2000 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 drill crew.
- All BOP tests & 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 3% 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/393 sx Class "B" w/3% econolite, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 0.5# flocele/sx, and 10# gilsonite/sx (986 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 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 3536'. Two turbolating centralizers at the base of the Ojo Alamo at 3536'. 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 circulate liner top. Cement with 289 sx 50/50 Class "B" Poz w/2% gel, 1/4# flocele/sx, 5# gilsonite/sx and 0.3% fluid loss additive (353 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.
- The pipe will be rotated and/or reciprocated, if hole conditions permit.

## 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.
- 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 Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 800 psi Pictured Cliffs 800 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The east half of the section is dedicated to the Mesa Verde.
- This gas is dedicated.

Drilling Engineer

Date



## San Juan 27-4 Unit #142A Multi-Point Surface Use Plan

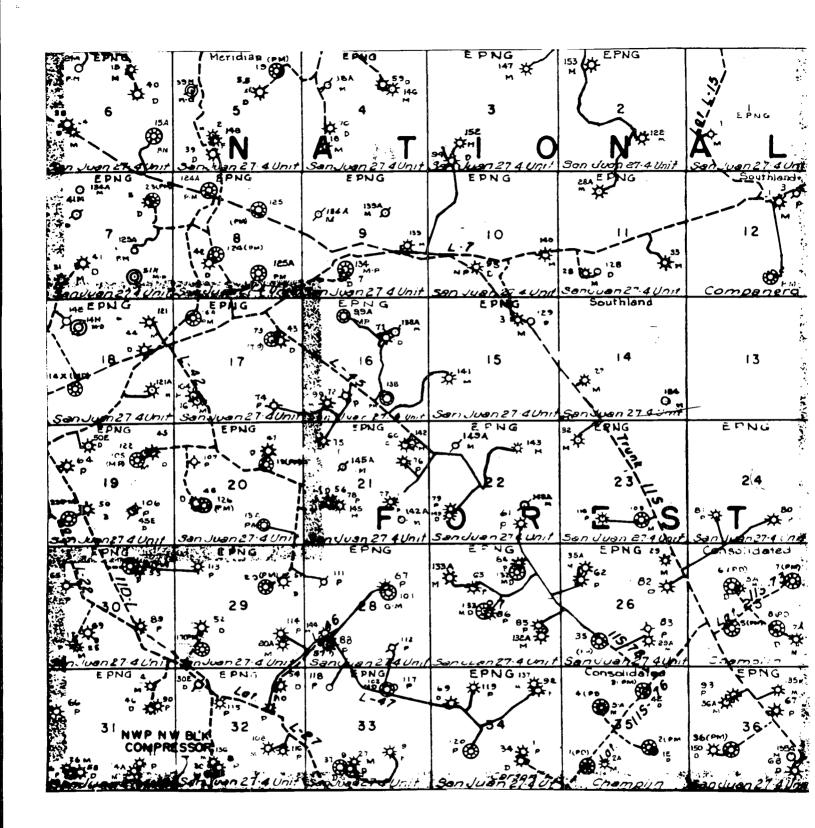
- 1. Existing Roads Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
- 2. Planned Access Road Refer to Map No. 1. None required.
- 3. 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 Williams Field Service.
- 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 Carson National Forest
- 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.

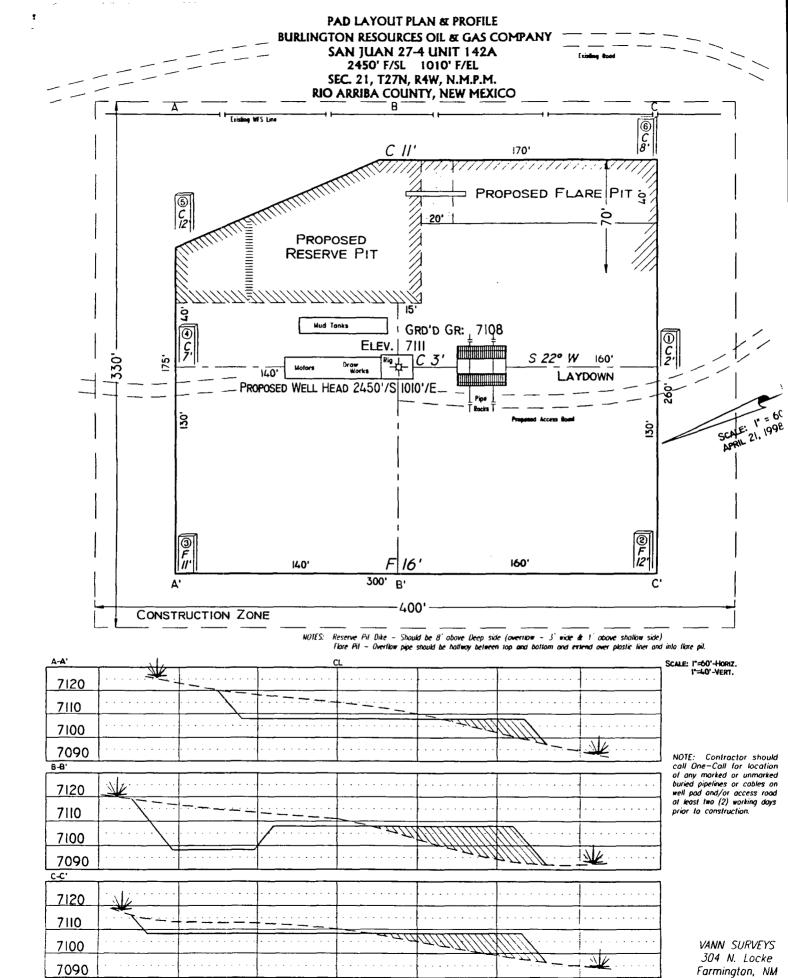
Regulatory/Compliance Administrator Date

pb





MERIDIAN OIL INC.
Pipeline Map
T-27-N, R-04-W
Rio Arriba County, New Mexico
Map 1A
San Juan 27-4 Unit 142A



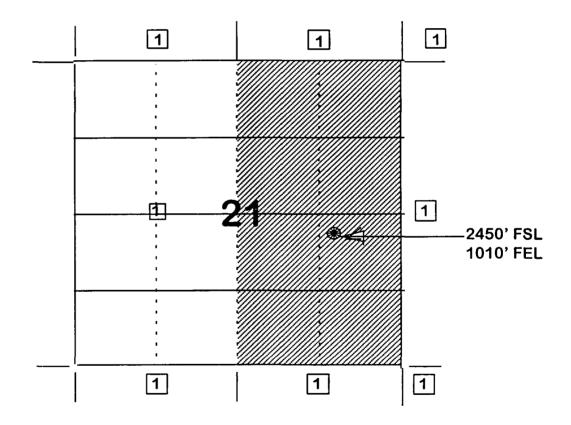
# **BURLINGTON RESOURCES OIL AND GAS COMPANY**

# San Juan 27-4 Unit #142A OFFSET OPERATOR \ OWNER PLAT

# **Mesaverde Formation**

# **Nonstandard Location**

Township 27 North, Range 4 West



1) Burlington Resources

