ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

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



ADMINISTRATIVE APPLICATION COVERSHEET

TH	IS COVERSHEET IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Appli	[DHC-Downh PC-Pool W	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] ole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [FX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] ed Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for A B B B V E Location - Spacing Unit - Directional Drilling NSP DD DD SD
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS CONSERVATION DIVISION
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
[2]	NOTIFICAT: [A]	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[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
	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[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. *I understand that any omission of data* (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note.	prateinent must be completed by	an individual with managerial and/or supervisory cap:	acity.
	Joann S	Explicied Sealism	e e e e e e e e e e e e e e e e e e e
Print or Type Name	(Signature	Title	Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

Sent Federal Express

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

Re:

San Juan 28-4 Unit #32M

2030'FSL, 2470'FEL, Section 32, T-28-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 both the Mesa Verde and Dakota pools. This application for the referenced location is for topographic reasons, archaeology, and at the request of the Carson National Forest Service, especially Mexican Spotted Owl habitat 500' from cliff.

7

Production from the Blanco Mesa Verde pool is to be included in a standard 320 acre-gas spacing and proration-unit-comprising of the east half (E/2) of Section 32 which is currently dedicated to Burlington's San Juan 28-4 Unit #9 (API 30-039-07233), located at 1150'FSL, 1600'FWL of Section 32. Production from the Basin Dakota pool is to be included in a standard 320 acre gas spacing and proration unit comprising of the east half (E/2) of Section 32 which is currently dedicated to Burlington's San Juan 28-4 Unit #32 (API 30-039-20174), located at 1617'FNL, 870'FEL of said Section 32.

The following attachments are for your review:

- 1. Application for Permit to Drill.
- Completed C-102 at referenced location.

Drawhuld

- 3. Offset operators/owners plat Burlington is the operator of the unit.
- 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

<u> </u>	Type of Work	5. Lease Number
	DRILL	SF-079731
		Unit Reporting Number
		891000933B-Dk
		8910998330-MV
1b.	Type of Well	6. If Indian, All. or Tribe
	GAS	
2.	Operator	7. Unit Agreement Name
	BURLINGTON RESOURCES Oil & Gas Company	
	RESOURCES Oil & Gas Company	San Juan 28-4 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	San Juan 28-4 Unit
		9. Well Number
	(505) 326-9700	32M
4.	Location of Well	10. Field, Pool, Wildcat
	2030'FSL, 2470'FEL	Blanco MV/Basin Dk
		11. Sec., Twn, Rge, Mer. (NMPM)
	Latitude 36° 36′ 47″, Longitude 107° 15	
		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
	2030'	
16.	Acres in Lease	17. Acres Assigned to Well
		320
18.	Distance from Proposed Location to Nearest Well, Drig	g, Compl, or Applied for on this Lease
19.	1800' Proposed Depth	20. Rotary or Cable Tools
13.	8657'	Rotary
	0037	Rotaly
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	7269'GR	••
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached	
	(/ (4,	1
24.	Authorized by: Matter Dead her	
	Regulatory/Compliance Admir	nistrator Date
PERMI	Г NO АРГ	PROVAL DATE
	VED BYTITLE	DATE
~: : : I\Q	7 LD D1 III LE	UATE

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 I PO Box 1980, Hobbs NM 88241-1980 PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Departs

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

Form C-10 Revised February 21, 199 Instructions on bac

Submit to Appropriate District Office State Lease - 4 Copi

POFESSIONAL

7016 Certificate Number Fee Lease - 3 Copis

District IV PO Box 2088, Santa Fe, NM 87504-2088 AMENDED REPOR WELL LOCATION AND ACREAGE DEDICATION PLAT ¹ Pool Code ³ Pool Name API Number 72319/71599 30-039-Blanco Mesaverde/Basin Dakota Property Code 7459 SAN JUAN 28-4 UNIT # 32M OCIRID No. BURLINGTON RESOURCES OIL & GAS COMPANY 7269 14538 Surface Location North/South line Feet from the Bast/West line UL or Lot No. Section Range Lot Ida Post from the RIO ARRIB 32 2030 28 N 4 W SOUTH 2470 EAST "Bottom Hole Location If Different From Surface 1 UL or lot no. MV-S/320 DK-E/320 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION "OPERATOR CERTIFICATION hereby certify that the information contained herein true and complete to the best of my knowledge and bel alhuld **NMSF** Administrat "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this a was piotted from field notes of actual surveys made by I or under my supervision, and that the same is true a correct to the best of my belief. 2470' May 15, 1998 Date of Survey NMSF - 079731 Signature and Sea EW INE SURVEYOR 016

OPERATIONS PLAN

Well Name: San Juan 28-4 Unit #32M

Location: 2030'FSL, 2470'FEL Sec 32, T-28-N, R-4-W

Rio Arriba County, NM

Latitude 36° 36′ 47″, Longitude 107° 15′ 58″

Formation: Blanco Mesa Verde/Basin Dakota

Elevation: 7269'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	3606'	
Ojo Alamo	3606'	3760 ′	aquifer
Kirtland	3760 ′	3822 ′	
Fruitland	3822'	4191'	gas
Pictured Cliffs	4191'	4291'	gas
Lewis	4291'	4738'	gas
Intermediate TD	4391'		
Huerfanito Bentonite	4738 ′	5163 ′	gas
Chacra	5163 ′	5976 ′	
Massive Cliff House	5976 '	6052 '	gas
Menefee	6052 '	6354 ′	gas
Massive Point Lookout	6354 ′	6916'	gas
Mancos Shale	6916 ′	7542 ′	
Gallup	7542 '	8317 ′	gas
Greenhorn	8317 '	8382 '	gas
Dakota	8382 ′		gas
TD (4 1/2"liner)	8657'		

Logging Program:

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

Mud Program:

Interva	al Type	Weight	Vis.	Fluid Loss
0- 20	00' Spud	8.4-9.0	40-50	no control
200-439	91' LSND	8.4-9.0	30-60	no control
4391-865	57 ' Gas	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):

		4 ,		_, -
Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 4391'	7"	20.0#	J-55
6 1/4"	4291' - 8657'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 8657' 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/363 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 (1155 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 3760'. Two turbolating centralizers at the base of the Ojo Alamo at 3760'. 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 472 sx 50/50 Class "B" Poz with 2% gel, 1/4# flocele/sx, 5# gilsonite/sx, and 0.4% fluid loss additive (627 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.

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 tubing will be run for 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
- · 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 the south half is dedicated to the Mesa Verde in this well.
- This gas is dedicated.

Drilling Engine

<u>5/s/48</u>



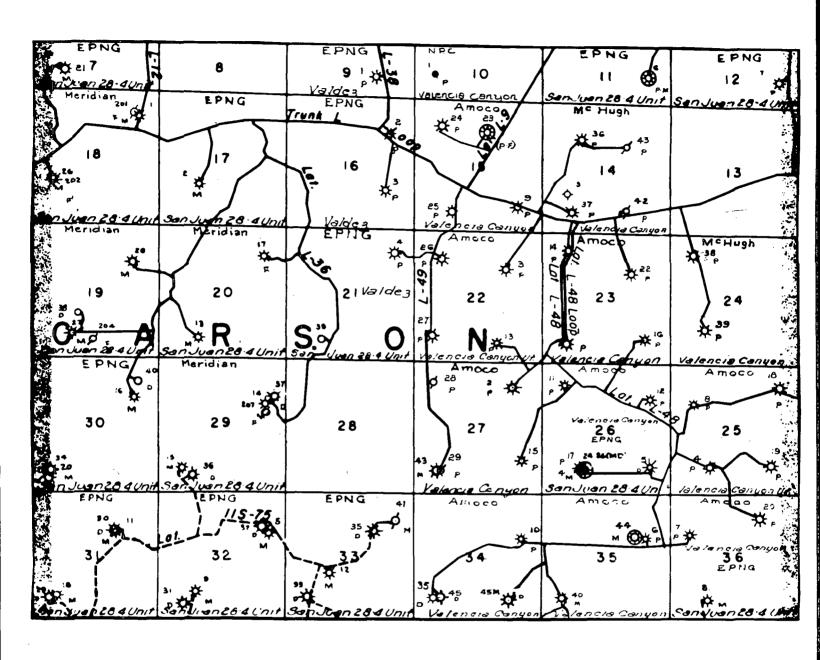
San Juan 28-4 Unit #32M Multi-Point Surface Use Plan

- 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.
- Planned Access Road Refer to Map No. 1. The required new access road is shown on Map No. 1. The gradient, shoulder, crowning and other design elements will meet or exceed those specified by the responsible government agency. The new access road surface will not exceed twenty feet (20') in width. No additional turnarounds or turnouts will be required. Upon completion of the project, the access road will be adequately drained to control soil erosion. Approximately 2300' of access road will be constructed. Pipelines are indicated on Map No. 1A.
- 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.
- 5. Location and Type of Water Supply Water will be hauled by truck for the proposed project and will be obtained from San Juan 27-5 Water Well #1 located NE/4 Section 3, T-27-N, R-5-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 guarry.
- 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

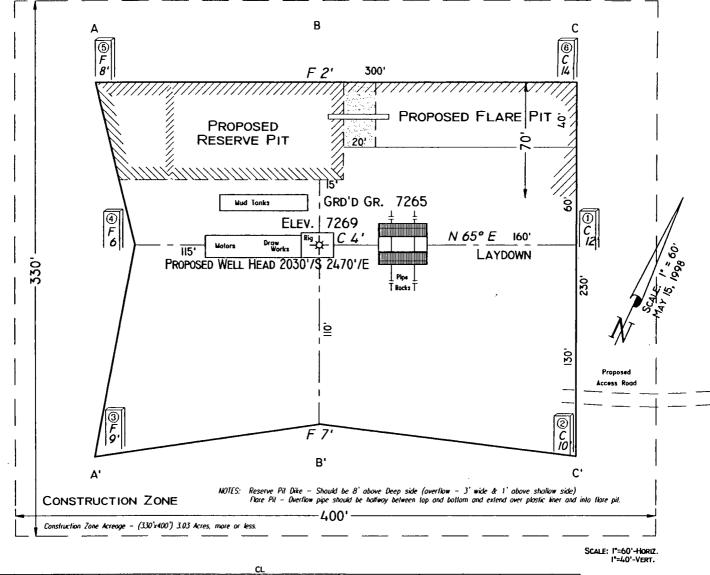
pb

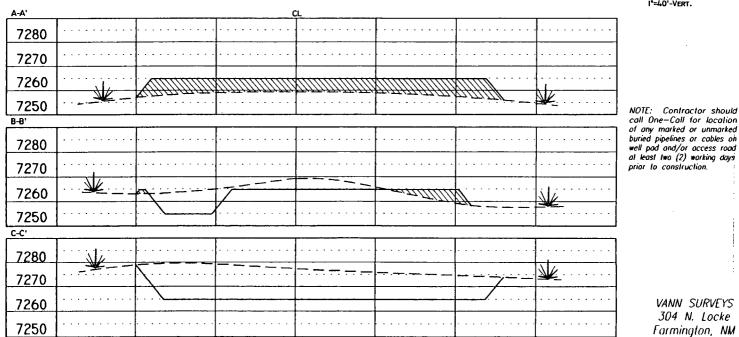


MERIDIAN OIL INC.
Pipeline Map
T-28-N, R-04-W
Rio Arriba County, New Mexico
San Juan 28-4 Unit #32M
Map 1A

PAD LAYOUT PLAN & PROFILE BURLINGTON RESOURCES OIL & GAS COMPANY **SAN JUAN 28-4 UNIT 32M** 2030' F/SL 2470' F/EL SEC. 32, T28N, R4W, N.M.P.M.

RIO ARRIBA COUNTY, NEW MEXICO



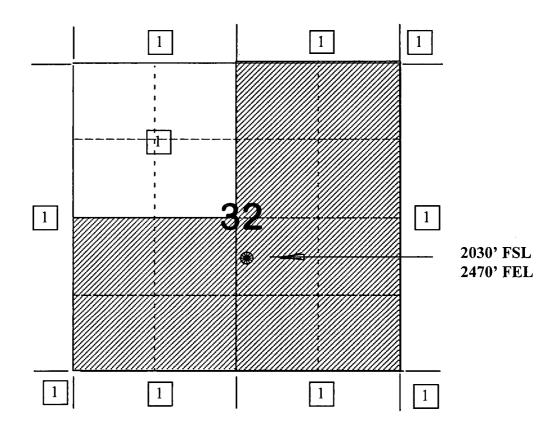


BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-4 Unit #32M OFFSET OPERATOR/OWNER PLAT Nonstandard Location

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

Township 28 North, Range 4 West



1) Burlington Resources

