

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 SF-079520A
	Unit Reporting Number 891000949A - Dk 8910009490 - MV
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company 14538	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 78M
4. Location of Well 2585' FNL, 2050' FWL Latitude 36° 38.0, Longitude 107° 16.2	10. Field, Pool, Wildcat 72319 Blanco MV/Basin Dk 71599
	11. Sec., Twn, Rge, Mer. (NMPM) F Sec 25, T-28-N, R-5-W API # 30-039-25969
14. Distance in Miles from Nearest Town 6 miles to Gobernador	12. County RA
	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 2050'	
16. Acres in Lease	17. Acres Assigned to Well N/ 344.64 MV, 320 DK
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 75'	
19. Proposed Depth 8140'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6753'	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"
24. Authorized by: <u>[Signature]</u> Regulatory/Compliance Administrator	6-9-98 Date

PERMIT NO. _____

APPROVAL DATE SEP 09 1998

APPROVED BY /s/ Duane W. Spencer

TITLE _____

DATE SEP 10 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.

NSL-4100(E)

NMCO

THESE RESULTS ARE THE BASIS OF THE
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EXCISE

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

District II
PO Box 20, Artesia, NM 88211-0020

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

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

State of New Mexico
Energy, Mineral & Natural Resources Department

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

Form C-1
Revised February 21, 1988
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Cops:
Fee Lease - 3 Cops:

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25969		Pool Code 72319/71599		Pool Name Blanco Mesaverde/Basin Dakota	
Property Code 7460		Property Name SAN JUAN 28-5 UNIT			Well Number 78M
GRID No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			Elevation 6753'

10 Surface Location

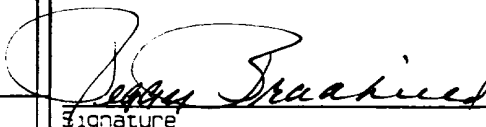
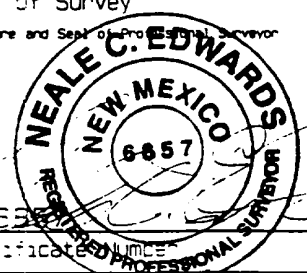
Lot or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	25	28N	5W		2585	NORTH	2050	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

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

Dedicated Acres MV-N/344.64 DK-W/320	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

2640.00'		1320.00'	1727.88'	17 OPERATOR CERTIFICATION: I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Peggy Bradfield Printed Name Regulatory Administrator Title 6-9-98 Date	
NMSF-079520A		NMSF-079520A			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 1, 1998 Date of Survey  Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 6857 Certified Professional Surveyor
2585'		2			
2050'		4			
2640.00'		1320.00'	1722.60'		

25 RECEIVED SEP 14 1998 OIL CON. DIV. DIST. 3

OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #78M
Location: 2585'FNL, 2050'FWL Sec 25, T-28-N, R-5-W
Rio Arriba County, NM
Latitude 36° 38.0, Longitude 107° 16.2
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6753'GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	3029'	
Ojo Alamo	3029'	3195'	aquifer
Kirtland	3195'	3273'	
Fruitland	3273'	3673'	gas
Pictured Cliffs	3673'	3775'	gas
Lewis	3775'	4324'	gas
Intermediate TD	3875'		
Huerfanito Bentonite	4324'	4648'	gas
Chacra	4648'	5436'	
Massive Cliff House	5436'	5513'	gas
Menefee	5513'	5787'	gas
Massive Point Lookout	5787'	6411'	gas
Mancos Shale	6411'	7034'	
Gallup	7034'	7795'	gas
Greenhorn	7795'	7855'	gas
Dakota	7855'		gas
TD (4 1/2"liner)	8140'		

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
200-3875'	LSND	8.4-9.0	30-60	no control
3875-8140'	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):

<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' - 3875'	7"	20.0#	J-55
6 1/4"	3775' - 8140'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 8140' 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 -

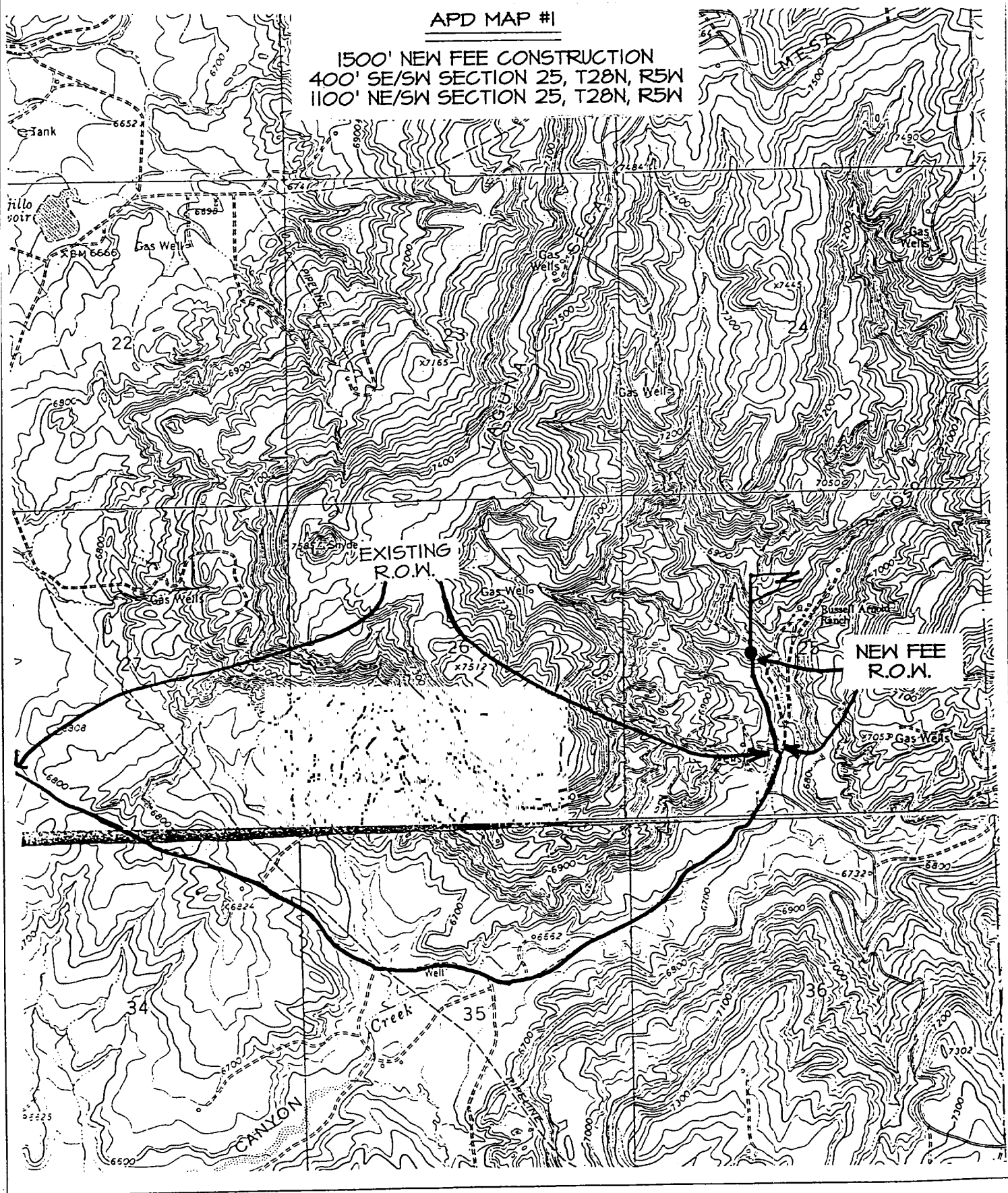
11" 2000 psi minimum double gate BOP stack (Reference Figure #1).
After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 28-5 UNIT #78M

2585' FNL & 2050' FWL, SECTION 25, T28N, R5W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO

APD MAP #1

1500' NEW FEE CONSTRUCTION
400' SE/SW SECTION 25, T28N, R5W
1100' NE/SW SECTION 25, T28N, R5W





NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

July 23, 1998

RECEIVED
JUL 29 1998
OIL CON. DIV.
DIST. 3

#17821
25-38-5

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

Administrative Order NSL-4100

Dear Ms. Bradfield:

Reference is made to your application dated July 13, 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. 78-M to be drilled at an unorthodox infill gas well location in both the Blanco-Mesaverde and Basin-Dakota Pools 2585 feet from the North line and 2050 feet from the West line (Unit F) of Section 25, 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 344.64-acre lay-down gas spacing and proration unit comprising Lots 1 and 2, the W/2 NE/4, and the NW/4 (N/2 equivalent) of Section 25 which is currently dedicated to Burlington's San Juan "28-5" Unit Well No. 46 (API No. 30-039-07342), located 1340 feet from the North line and 2349 feet from the East line (Unit G) of Section 25. 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 W/2 of Section 25, which is currently dedicated to Burlington's San Juan "28-5" Unit Well No. 78 (API No. 30-039-20105), located at a standard gas well location 990 feet from the South line and 964 feet from the West line (Unit M) of Section 25.

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. 78-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

July 13, 1998

Sent Federal Express

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

RECEIVED
JUL 14 1998
OIL CON. DIV.
DIST. 3

Re: San Juan 28-5 Unit #78M
2585'FNL, 2050'FWL, Section 25, T-28-N, R-5-W, Rio Arriba County, NM
30-039-not assigned

Dear Ms. Wrotenberg:

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 344.64 acre gas spacing and proration unit comprising of the north half (N/2) of Section 25 which is currently dedicated to the San Juan 28-5 Unit #78 (30-039-20105) located at 990'FSL, 964'FWL of Section 25. The Mesa Verde pool is to be opened in the San Juan 28-5 Unit #78 in 1998; DHC-1756 has been received. Production from the Basin Dakota is to be included in a standard 320 acre gas spacing and proration unit comprising of the west half (W/2) of Section 25 which was dedicated to the San Juan 28-5 Unit #78(30-039-20105) located at 990'FSL, 964'FWL of Section 25.

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 – 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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-079520A
1b. Type of Well GAS	Unit Reporting Number 891000949A - Dk 8910009490 - MV
2. Operator BURLINGTON RESOURCES Oil & Gas Company	6. If Indian, All. or Tribe
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name San Juan 28-5 Unit
4. Location of Well 2585' FNL, 2050' FWL Latitude 36° 38.0, Longitude 107° 16.2	8. Farm or Lease Name San Juan 28-5 Unit
	9. Well Number 78M
	10. Field, Pool, Wildcat Blanco MV/Basin Dk
	11. Sec., Twn, Rge, Mer. (NMPM) Sec 25, T-28-N, R-5-W API # 30-039-
14. Distance in Miles from Nearest Town 6 miles to Gobernador	12. County RA
	13. State NM
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18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 75'	
19. Proposed Depth 8140'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6753'	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u><i>Tommy Skadnick</i></u> Regulatory/Compliance Administrator	<u>6-9-98</u> Date

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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Prayer CC, Antelope, 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
P.O. Box 2038, Santa Fe, NM 87504-2038

☐ AMENDED RE

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number	*Pool Code	*Pool Name
30-039-	72319/71599	Blanco Mesaverde/Basin Dakota
*Property Code	*Property Name	*Well Number
7460	SAN JUAN 28-5 UNIT	78M
*UGRID No.	*Operator Name	*Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	6753'

10 Surface Location

1. or lot no.	Section	Township	Range	Lot 101	Feet from the	North/South line	Feet from the	East/West line	County
=	25	28N	5W		2585	NORTH	2050	WEST	R ARF

¹¹Bottom -ple Location If Different From Surface

Ac or lot no	Section	Township	Range	1st 10h	Feet from the	North/South line	Feet from the	East/West line	Co.
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13 SPECIFIED ACRES MV-N/344.64 DK-W/320	14 JOINT or [initial]	16 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLID.
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

2640.00'		1320.00'	1727.88	<p>" OPERATOR CERTIFICATE</p> <p>I hereby certify that the information contained true and complete to the best of my knowledge.</p> <p><i>Peggy Bradfield</i> Signature</p> <p>Peggy Bradfield Printed Name</p> <p>Regulatory Administrator Title</p> <p>6-9-98 Date</p> <p>" SURVEYOR CERTIFICATE</p> <p>I hereby certify that the well location shown on was plotted from field notes of actual surveys or under my supervision, and that the same is t correct to the best of my belief.</p> <p>APRIL 1, 1998 Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>NEALE C. EDWARDS NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR</p>
NMSF-079520A		NMSF-079520A	1	
2585'			2	
2050'				
25				
FEE		RECEIVED JUL 14 1998 OIL CON. DIV. DIST. 3		
2640.00'		1320.00'	1722.80	

OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #78M
Location: 2585' FNL, 2050' FWL Sec 25, T-28-N, R-5-W
Rio Arriba County, NM
Latitude 36° 38.0, Longitude 107° 16.2
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6753' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
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Chacra	4648'	5436'	
Massive Cliff House	5436'	5513'	gas
Menefee	5513'	5787'	gas
Massive Point Lookout	5787'	6411'	gas
Mancos Shale	6411'	7034'	
Gallup	7034'	7795'	gas
Greenhorn	7795'	7855'	gas
Dakota	7855'		gas
TD (4 1/2" liner)	8140'		

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
200-3875'	LSND	8.4-9.0	30-60	no control
3875-8140'	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):

<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' - 3875'	7"	20.0#	J-55
6 1/4"	3775' - 8140'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 8140' 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/316 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 (1019 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 3195'. Two turbolating centralizers at the base of the Ojo Alamo at 3195'. 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 471 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.

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 tubing will be run for completion.

Special Drilling Operations (Gas/Mist Drilling):

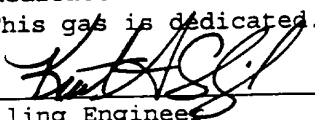
The following equipment will be operational while gas/mist drilling:

- 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 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 west half is dedicated to the Dakota and the north half is dedicated to the Mesa Verde in this well.
- This gas is dedicated.


Drilling Engineer

6/11/98
Date

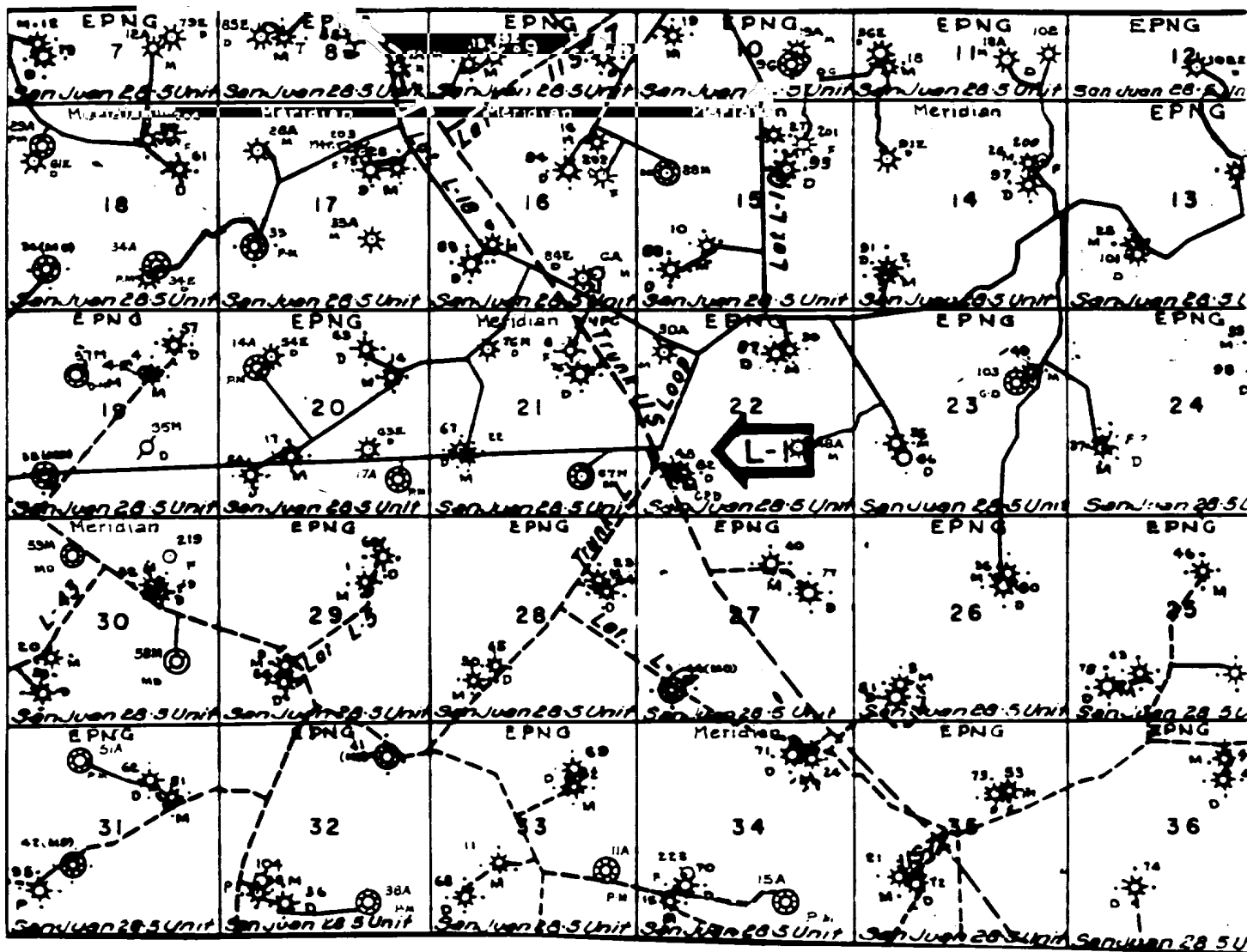
BURLINGTON RESOURCES

San Juan 28-5 Unit #78M
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. 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 1500' of access road will be constructed. Pipelines are indicated on Map No. 1A.
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.
5. Location and Type of Water Supply - Water will be hauled by truck for the proposed project and will be obtained from 44 Crossing located NE/4 Section 18-27-4, 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.

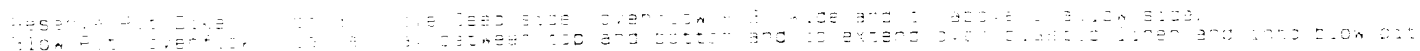

Regan Shaahid 6-9-98
Regulatory/Compliance Administrator Date



MERIDIAN OIL INC.
 Pipeline Map
 T-28-N, R-05-W
 Rio Arriba County, New Mexico
 San Juan 28-5 Unit #78M
 Map 1A

3/91 adw/mjb

#1 BURLINGTON RESOURCES OIL & GAS COMPANY
 SANITARIUM 23-3 UNIT #73M, 2485' ETL & 2050' ETL
 SECTION 10, T23N, R5W, N4E/4 SEC 10 ALBUQUERQUE COUNTY, NEW MEXICO
 SECOND ELEVATION: 6753' DATE: APRIL 1, 1998

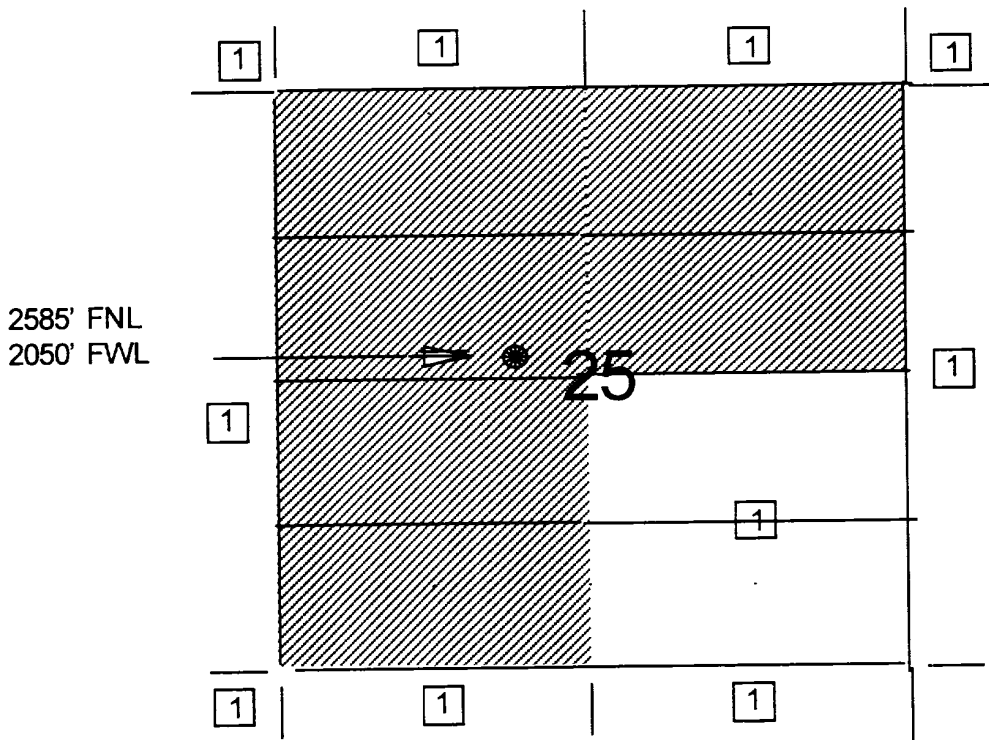


BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 28-5 Unit #78M
OFFSET OPERATOR \ OWNER PLAT
Non Standard Location**

Mesaverde (N/2) / Dakota (W/2) Formations Well

Township 28 North, Range 5 West



1) Burlington Resources

