



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

June 20, 1997

RECEIVED
JUN 26 1997

OIL CON. DIV.
DIST. 3

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

Administrative Order NSL-3808

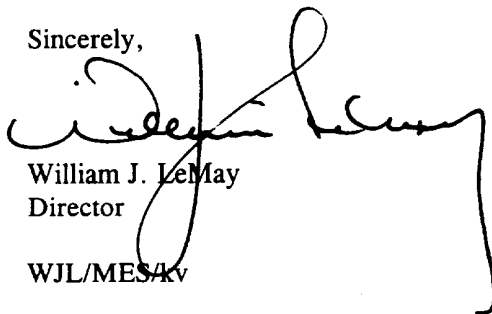
Dear Ms. Bradfield:

Reference is made to your application dated May 9, 1997 for an unorthodox "infill" gas well location for both the Blanco-Mesaverde and Basin-Dakota Pools for the proposed San Juan "28-6" Unit Well No. 205-M to be drilled 1570 feet from the North line and 2415 feet from the West line (Unit F) of Section 9, Township 27 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

Production from the Basin-Dakota Pool is to be included in an existing standard 320-acre gas spacing and proration unit comprising the N/2 of said Section 9 which is currently dedicated to your San Juan "28-6" Unit Well No. 205 (API No. 30-039-20850), located at a standard gas well location 1800 feet from the North line and 1840 feet from the East line (Unit G) of said Section 9 and production from the Blanco-Mesaverde Pool is to be included in an existing standard 320-acre gas spacing and proration unit comprising the N/2 of said Section 9 which is currently dedicated to Burlington's San Juan "28-6" Unit Well No. 23 (API No. 30-039-07104), located at a standard gas well location 1090 feet from the South line and 1100 feet from the West line (Unit M) of said Section 9.

By the authority granted me under the provisions of Rule 2(d) of the "General Rules For The Prorated Gas Pools of New Mexico/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-8170, as amended, the above-described unorthodox "infill" gas well location for the San Juan "28-6" Unit Well No. 205-M is hereby approved.

Sincerely,



William J. LeMay
Director

WJL/MES/AV

cc: Oil Conservation Division - Aztec
U. S. Bureau of Land Management - Farmington

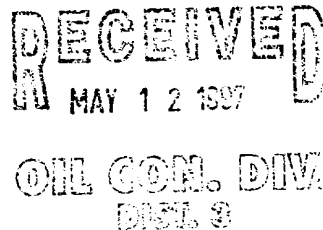
BURLINGTON RESOURCES

SAN JUAN DIVISION

May 9, 1997

Sent Federal Express

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505



Re: San Juan 28-6 Unit #205M
1570'FNL, 2415'FWL Section 9, T-27-N, R-6-W, Rio Arriba County, New Mexico
API # 30-039-(not yet assigned)

Dear Mr. LeMay:

Burlington Resources is applying for administrative approval of a non-standard location for the above location in both the Mesa Verde and Dakota formations. This application for the referenced location is at the request of the Bureau of Land Management to minimize new surface disturbance.

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, and certification of notification
4. 7.5 minute topographic map showing the orthodox windows, and enlargement of the map to define topographic features.

We appreciate your earliest consideration of this application.

Sincerely,

A handwritten signature in cursive script, appearing to read "Peggy Bradfield".

Peggy Bradfield
Regulatory/Compliance Representative

xc: Bureau of Land Management
NMOCD - Aztec District Office

WAIVER

_____ hereby waives objection to Burlington Resources' application for a non-standard location for their San Juan 28-6 Unit #205M as proposed above.

By: _____ Date: _____

xc: Unocal Corp

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator <i>BURLINGTON RESOURCES</i></p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1570' FNL, 2415' FWL Section 9, T-27-N, R-6-W</p>	<p>5. Lease Number SF-079049C</p> <p>6. If Indian, All. or Tribe Name</p> <p>7. Unit Agreement Name</p> <p>San Juan 28-6 Unit</p> <p>8. Well Name & Number San Juan 28-6 U #205M</p> <p>9. API Well No. 30-039-</p> <p>10. Field and Pool Blanco MV/Basin Dk</p> <p>11. County and State Rio Arriba Co., NM</p>
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12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

Attached is a C102 plat showing the revised location of this well. Also attached is a revised cut and fill diagram, topographic map, and pipeline survey map. An Application for Permit to Drill has been submitted for this well.

14. I hereby certify that the foregoing is true and correct.

Signed *[Signature]* Title Regulatory Admin. Date 5/8/97


(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

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-079049C Unit Reporting Number 891001051B-Dk 8910010510-MV
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name San Juan 28-6 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 28-6 Unit 9. Well Number 205M
4. Location of Well 1070' FNL, 1520' FWL Latitude 36° 35.6, Longitude 107° 28.5	10. Field, Pool, Wildcat Blanco Mesa Verde/ Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec 9, T-27-N, R-6-W API # 30-039-
14. Distance in Miles from Nearest Town 7 miles to Gobernador	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 1070'	13. State NM
16. Acres in Lease	17. Acres Assigned to Well 320 W/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1800'	20. Rotary or Cable Tools Rotary
19. Proposed Depth 7610'	22. Approx. Date Work will Start
21. Elevations (DF, FT, GR, Etc.) 6468' GR	23. Proposed Casing and Cementing Program See Operations Plan attached
24. Authorized by:  Regulatory/Compliance Administrator	1-13-97 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

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesa, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C
Revised February 21, 1997
Instructions on
Submit to Appropriate District Office
State Lease - 4 Cc
Fee Lease - 3 Cc

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-	Pool Code 72319/71599	Pool Name Blanco Mesaverde/ Basin Dakota
Property Code 7462	Property Name San Juan 28-6 Unit	Well Number 205M
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6481'

10 Surface Location

UL or lot no. F	Section 9	Township 27-N	Range 6-W	Lot Ida	Feet from the 1570	North/South line North	Feet from the 2415	East/West line West	County R.A.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres MV-W/320 DK-N/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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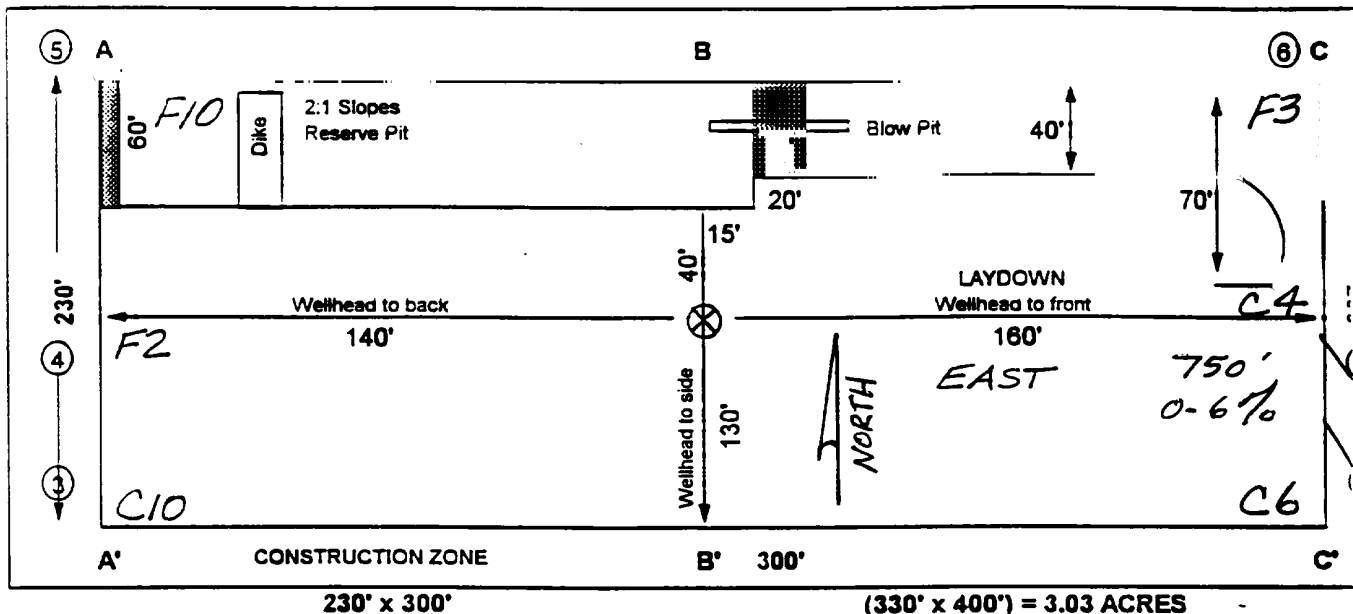
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 Reissued to show amended location SF-079049-C 2415' SF-079049-C 5250.96' 5254.92'	5229.18' 1570' 9 5238.42'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein true and complete to the best of my knowledge and belief Signature Peggy Bradford Printed Name Regulatory Administrator Title 5-8-97 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 or under my supervision, and that the same is true and correct to the best of my belief. 4/23/97 Date of Survey Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 6857 6857 Certificate Number
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BURLINGTON RESOURCES

PLAT #1

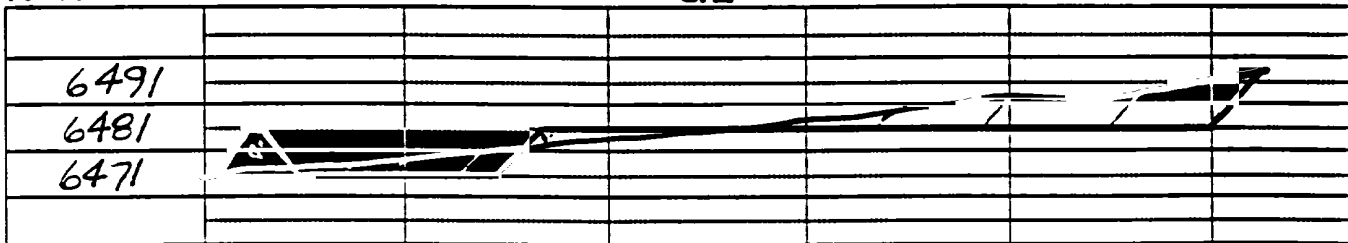
NAME: SAN JUAN 28-6 UNIT # 205 M
 FOOTAGE: 1570' FNL 2415' FWL
 SEC 9 TWN 27 N.R. 6 W NMPM
 CO: RIO ARRIBA ST: N.M.
 ELEVATION: 6481' DATE: 4-23-97



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 pit.

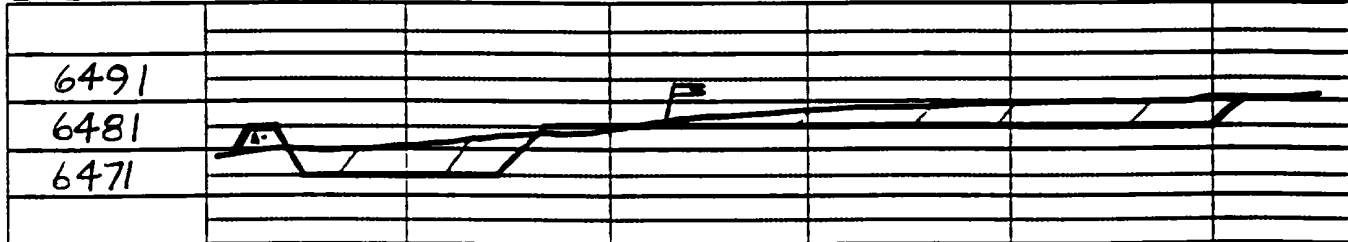
A - A'

C/L



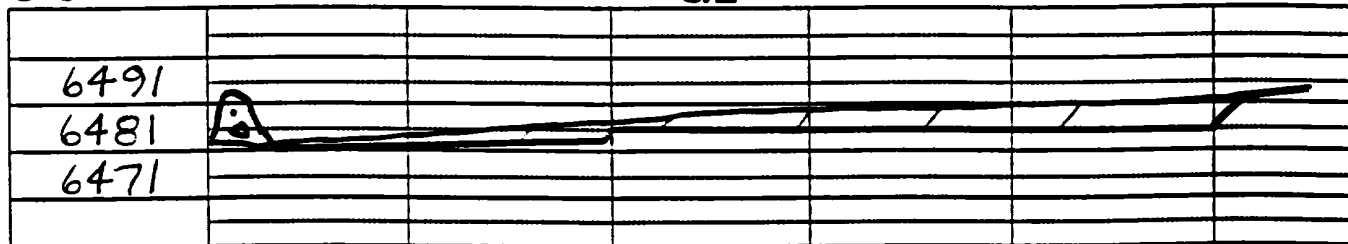
B - B'

C/L



C - C'

C/L



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

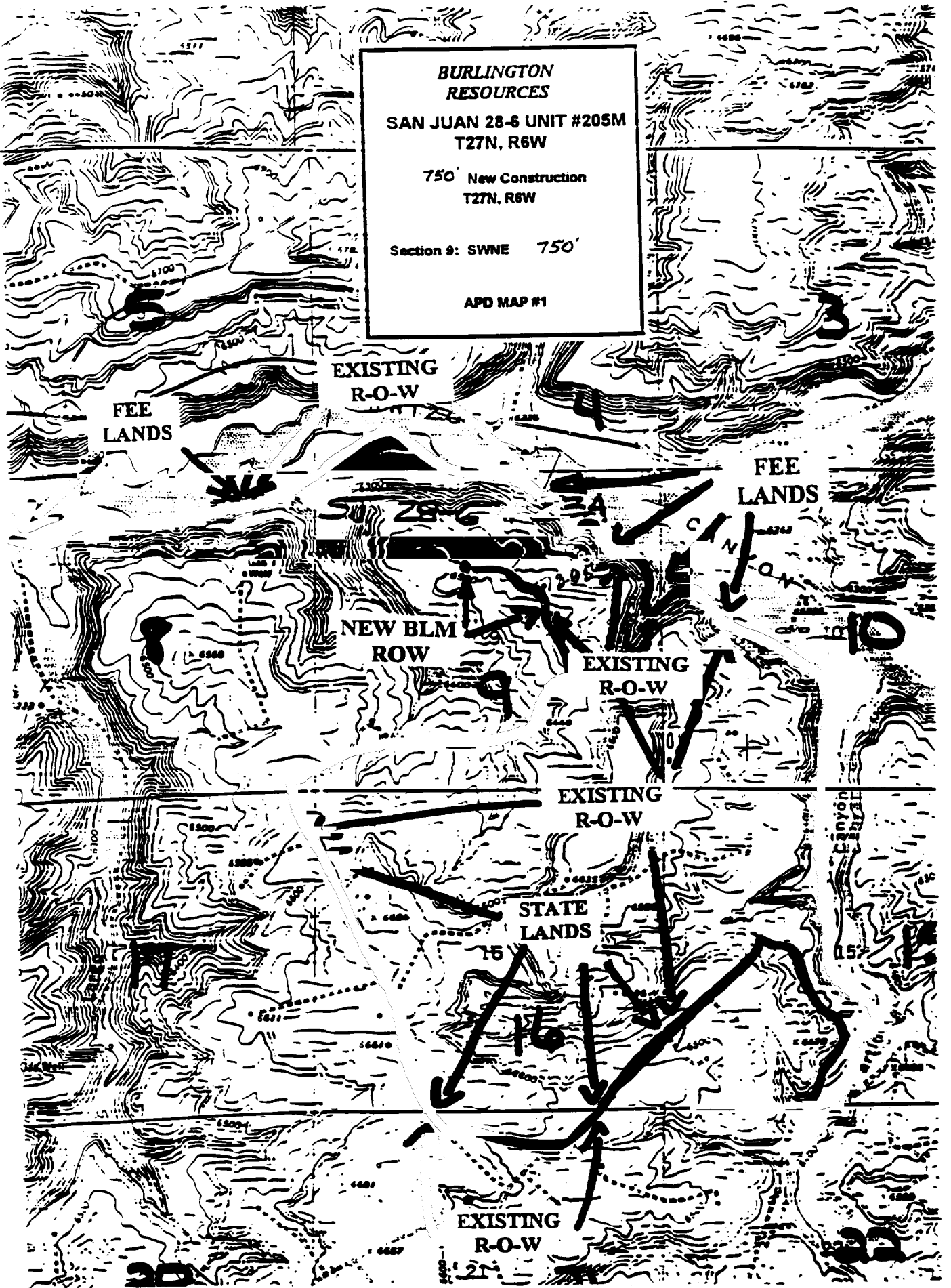
**BURLINGTON
RESOURCES**

**SAN JUAN 28-6 UNIT #205M
T27N, R6W**

**750' New Construction
T27N, R6W**

Section 9: SWNE 750'

APD MAP #1



OPERATIONS PLAN

Well Name: San Juan 28-6 Unit #205M
Location: 1070' FNL, 1520' FWL Sec 9, T-27-N, R-6-W
 Rio Arriba County, NM
 Latitude 36° 35.6, Longitude 107° 28.5
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6468' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2420'	
Ojo Alamo	2420'	2790'	aquifer
Fruitland	2790'	2790'	gas
Pictured Cliffs	3160'	3285'	gas
Lewis	3285'	3605'	gas
Intermediate TD	3335'		
Mesa Verde	3605'	4120'	gas
Chacra	4120'	4800'	
Massive Cliff House	4800'	4945'	gas
Menefee	4945'	5350'	gas
Massive Point Lookout	5350'	6540'	gas
Gallup	6540'	7280'	gas
Greenhorn	7280'	7380'	gas
Graneros	7380'	7478'	gas
Dakota	7478'		gas
TD (4 1/2" liner)	7610'		

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
200-3335'	LSND	8.4-9.0	30-60	no control
3335-7610'	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>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3335'	7"	20.0#	J-55
6 1/4"	3235' - 6855'	4 1/2"	10.5#	K-55
6 1/4"	6855' - 7610'	4 1/2"	11.6#	K-55

Tubing Program:

0' - 7610' 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 12 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/267 sx Class "B" w/3% medisilicate, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride (877 cu.ft. of slurry, 75% excess to circulate to surface.) WOC minimum of 12 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 2790'. Two turbolating centralizers at the base of the Ojo Alamo at 2790'. 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. Lead with 109 sx 65/35 Class "B" poz with 6% gel, 5# gilsonite/sx and 1/4# flocele/sx. Tail with 315 sx 50/50 Class "B" Poz with 1/4# flocele/sx, 5# gilsonite/sx, and 0.3% fluid loss additive (606 cu.ft., 35% 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. In its place, 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" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The liner top can then be pressure tested to ensure a seal between the liner top and the 7" casing has been achieved. The test pressure shall be the maximum anticipated pressure to which the seal will be exposed (700 psi for the Mesa Verde and 2500 psi for the Dakota). The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

- 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.
 - 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.
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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:

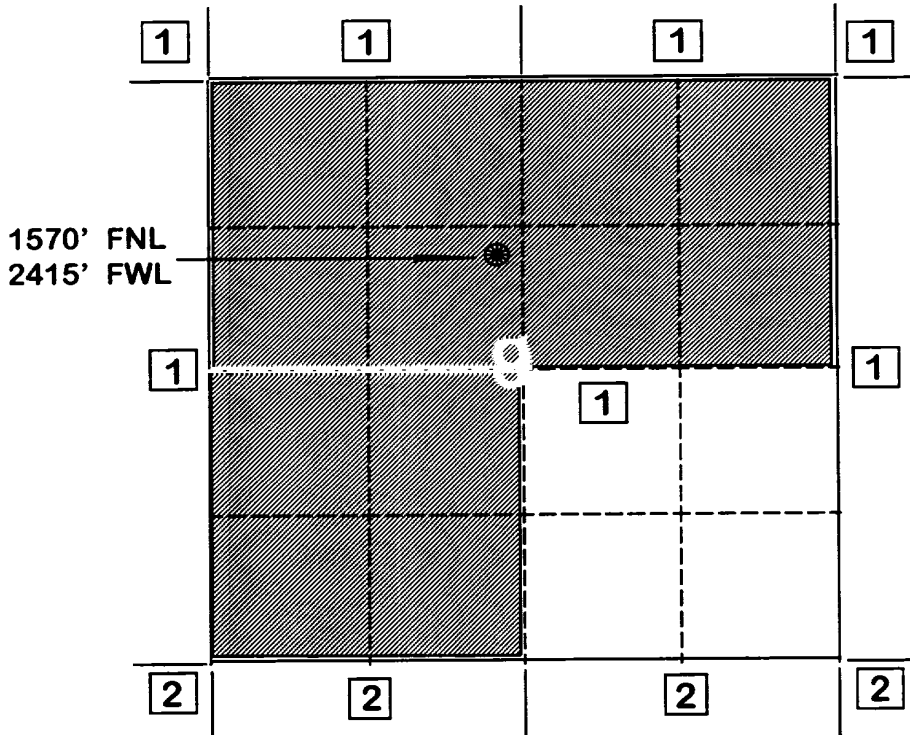
Fruitland Coal	800 psi
Pictured Cliffs	800 psi
Mesa Verde	700 psi
Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half is dedicated to the Mesa Verde and Dakota in this well.
- This gas is dedicated.


Drilling EngineerDate 1/14/97

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 28-6 Unit #205M
OFFSET OPERATOR \ OWNER PLAT
Nonstandard Location
Mesaverde (W/2)/Dakota (N/2) Formations Well**

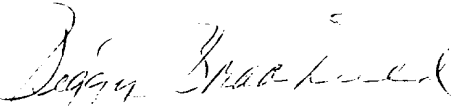
Township 27 North, Range 6 West



- 1) Burlington Resources Oil and Gas Company
- 2) Unocal Corp.
3300 N. Butler Avenue
Farmington, NM 87401

Re: San Juan 28-6 Unit #205M
1570'FNL, 2415'FWL Section 9, T-27-N, R-6-W, Rio Arriba County, New Mexico
API # 30-039-(not yet assigned)

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.



Unocal Corporation
3300 North Butler Avenue
Farmington, NM 87401

Peggy Bradfield
Regulatory/Compliance Administrator

