STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

March 24, 1997

RECEIVED
MAR 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-3779

Dear Ms. Bradfield:

Reference is made to your application dated January 28, 1997 for an unorthodox "infill" gas well location for both the Blanco-Mesaverde and Basin-Dakota Pools for the proposed San Juan "28-5" Unit Well No. 73-M to be drilled 765 feet from the South line and 2075 feet from the East line (Lot 2/Unit O) of Section 35, Township 28 North, Range 5 West, NMPM, Rio Arriba County, New Mexico.

Production from the Blanco-Mesaverde Pool is to be included in an existing standard 361.36-acre gas spacing and proration unit comprising Lots 1 through 4 and the N/2 S/2 (S/2 equivalent) of said Section 35 which is currently dedicated to Burlington Resources' San Juan "28-5" Unit Well No. 21 (**API No. 30-039-07239**), located at a standard gas well location 1650 feet from the South line and 1075 feet from the West line (Unit L) of said Section 35 and production from the Basin-Dakota Pool is to be included in an existing non-standard 330.92-acre gas spacing and proration unit (approved by Division Order No. R-2948, dated August 16, 1965) comprising Lot 2, the NE/4, and the N/2 SE/4 of said Section 35 and the NE/4 NE/4 of Section 36, Township 28 North, Range 5 West, NMPM, Rio Arriba County, New Mexico, which is currently dedicated to Burlington Resources' San Juan "28-5" Unit Well No. 73 (**API No. 30-039-20036**), located at a standard gas well location 1845 feet from the North and East lines (Unit G) of said Section 35.

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 "28-5" Unit Well No. 73-M is hereby approved.

Sincerely,

William J. LeMay
Director

WJL/MES/kv

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

102

BURLINGTON RESOURCES

SAN JUAN DIVISION

January 28, 1997

Sent Federal Express

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

Re: San Juan 28-5 Unit #73M
765'FSL, 2075'FEL Section 35, T-28-N, R-5-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 due to the presence of pipelines, terrain, and at the request of the Bureau of Land Management.

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 offset operator
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,

Peggy Bradfield
Regulatory/Compliance Representative

RECEIVED
JAN 28 1997
OIL CON. DIV.
DIST. 3

3535 East 30th St., 87402-8891, P.O. Box 4289, Farmington, New Mexico 87499-4289, Telephone 505-326-9700, Fax 505-326-9833

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. **Type of Work**
DRILL

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OIL CON. DIV.
DIST. 3

5. **Lease Number**
SF-079522
Unit Reporting Number
8910000949A-Dk
89100009490-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 28-5 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**
73M

4. **Location of Well**
765'FSL, 2075'FEL

Latitude 36° 36' 43", Longitude 107° 19' 34"

10. **Field, Pool, Wildcat**
Blanco Mesa Verde/
Basin Dakota
11. **Sec., Twn, Rge, Mer. (NMPM)**
Sec 35, T-28N, R-5-W
API # 30-039-

14. **Distance in Miles from Nearest Town**
8 miles to Gobernador

12. **County** Rio Arriba
13. **State** NM

15. **Distance from Proposed Location to Nearest Property or Lease Line**
765'

16. **Acres in Lease**

17. **Acres Assigned to Well**
330.92 Dk/361.36 MV

18. **Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease**
1200'

19. **Proposed Depth**
8013'

20. **Rotary or Cable Tools**
Rotary

21. **Elevations (DF, FT, GR, Etc.)**
6736'GR

22. **Approx. Date Work will Start**

23. **Proposed Casing and Cementing Program**
See Operations Plan attached

24. **Authorized by:** Peggy Bradfield
Regulatory/Compliance Administrator

1-21-97
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, Artesia, 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, 1
Instructions on t
Submit to Appropriate District O
State Lease - 4 Co
Fee Lease - 3 Co

☐ AMENDED REPO

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	73M

OGRID No.	Operator Name	Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	6736'

Surface Location

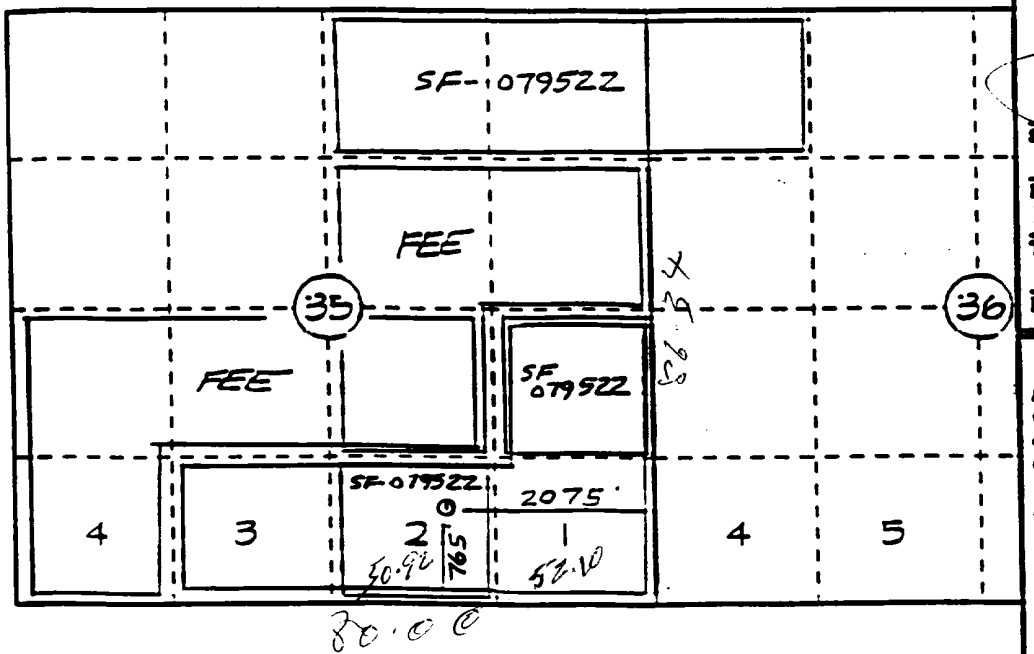
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	35	28-N	5-W		765	South	2075	East	R.A.

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
MV-S/361.36 DK-330.92			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATE
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATI

I hereby certify that the information contained herein
true and complete to the best of my knowledge and b

Signature: Peggy Bradfield

Printed Name: Peggy Bradfield

Title: Regulatory Administrato

Date: 1-21-97

SURVEYOR CERTIFICATI

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

Date of Survey: 12-20-96

Signature and Seal of Professional Surveyor: NEAL C. EDWARDS, NEW MEXICO, 6857, REGISTERED PROFESSIONAL SURVEYOR

Certificate Number: 6857

OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #73M
Location: 765'FSL, 2075'FEL Sec 35, T-28-N, R-5-W
Rio Arriba County, NM
Latitude 36° 36' 43", Longitude 107° 19' 34"
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6736'GL

Formation Tops:	***Top***	***Bottom***	***Contents***
Surface	San Jose	2988'	
Ojo Alamo	2988'	3238'	aquifer
Fruitland	3238'	3588'	gas
Pictured Cliffs	3588'	3688'	gas
Lewis	3688'	4273'	gas
Intermediate TD	**3738'**		
Mesa Verde	4273'	4543'	gas
Chacra	4543'	5278'	
Massive Cliff House	5278'	5408'	gas
Menefee	5408'	5733'	gas
Massive Point Lookout	5733'	6923'	gas
Gallup	6923'	7668'	gas
Greenhorn	7668'	7775'	gas
Graneros	7775'	7873'	gas
Dakota	7873'		gas
TD	**8013'**		

Logging Program:
Cased hole -Gamma Ray/Neutron

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200-3738'	LSND	8.4-9.0	30-60	no control
3738-8013'	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):

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3738'	7"	20.0#	J-55
6 1/4"	3638' - 6855'	4 1/2"	10.5#	J-55
6 1/4"	6855' - 8013'	4 1/2"	11.6#	J-55

Tubing Program:

0' - 8013'	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/353 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 (1126 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 3238'. Two turbolating centralizers at the base of the Ojo Alamo at 3238'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 116 sx 65/35 Class "B" poz with 6% gel, 5# gilsonite/sx and 1/4# flocele/sx. Tail with 296 sx 50/50 Class "B" Poz with 1/4# flocele/sx, 5# gilsonite/sx, and 0.3% fluid loss additive (608 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.

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 dedication to the Mesa Verde and Dakota in this well is as shown on the C102 plat attached.
- This gas is dedicated.

Drilling Engineer

1/21/97
Date

BURLINGTON RESOURCES

San Juan 28-5 Unit #73M
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 600' 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 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 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

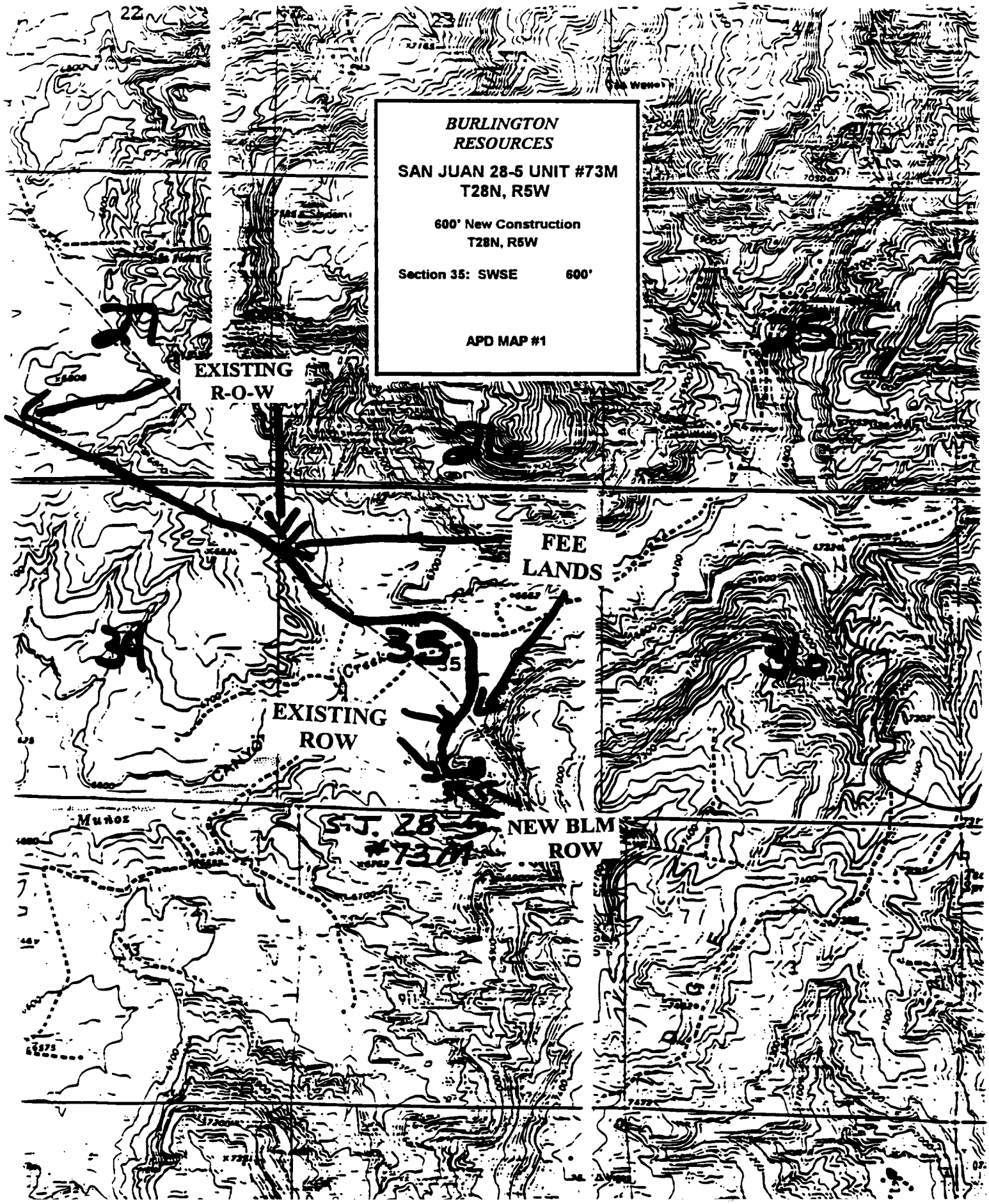
12. Other Information - Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.

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.

Peggy Bradfield 1-21-97

Regulatory/Compliance Administrator Date

pb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23
BURLINGTON RESOURCES
SAN JUAN 28-5 UNIT #73M
T28N, R5W
600' New Construction
T28N, R5W
Section 35: SWSE 600'
APD MAP #1
EXISTING R-O-W
FEE LANDS
EXISTING ROW
NEW BLM ROW
S.J. 28-5 #73M
Muñoz

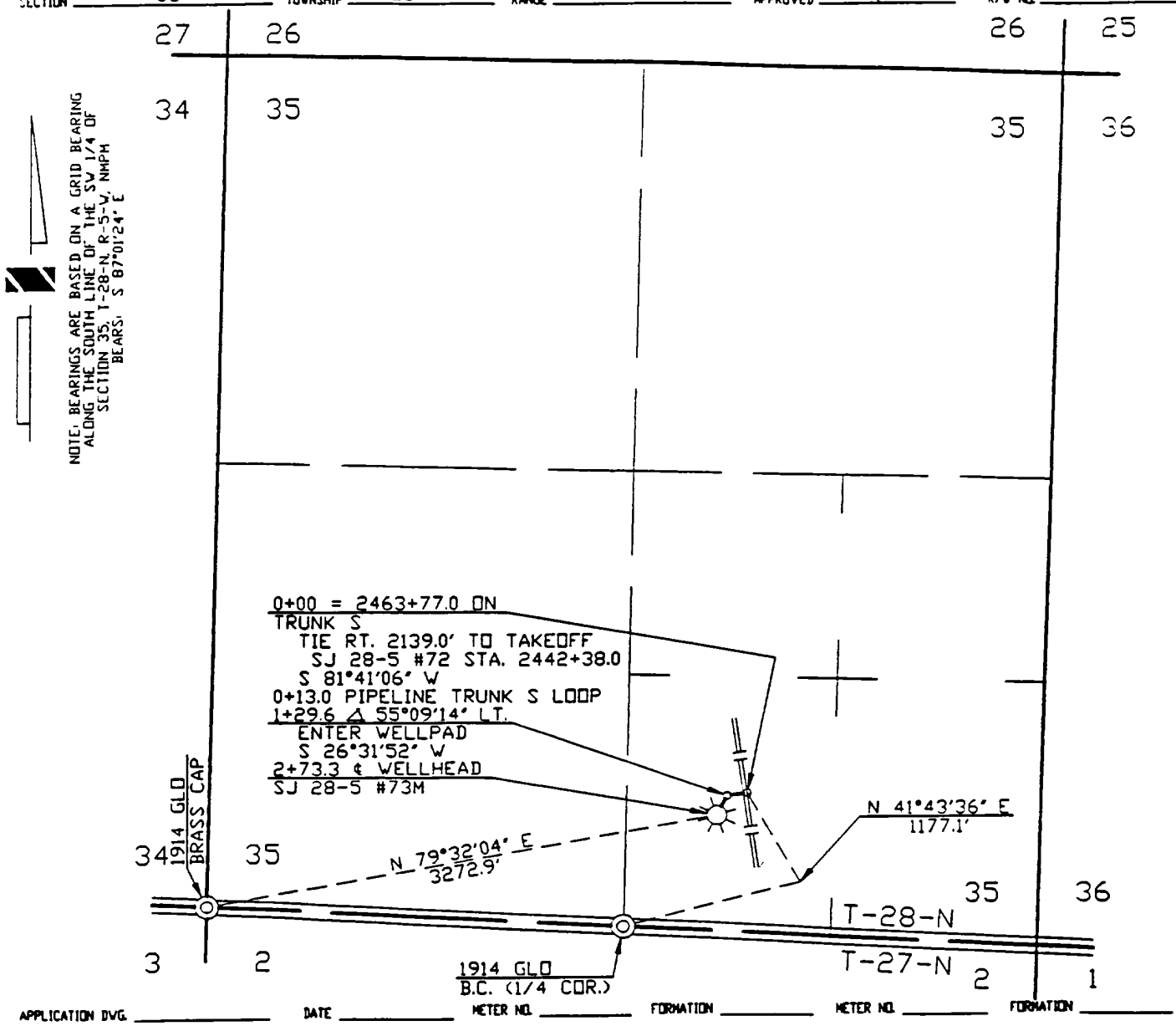
WILLIAMS GAS PROCESSING
ONE OF THE WILLIAMS COMPANIES

SAN JUAN GATHERING SYSTEM

LINE: BURLINGTON RESOURCES - SJ 29-5 #73M
FROM: 0+00 = 2463+77.0 ON TRUNK S
(REF. DWG. S765.0-1)
COUNTY: RIO ARRIBA STATE: NEW MEXICO
SECTION: 35 TOWNSHIP: 28-N RANGE: 5-W

SCALE: 1"=1000'
DRAWN BY: PB
CHECKED BY: CJF
APPROVED: RR
APPROVED: CL

DWG. NO. S765.0-215-1
DATE: 12/30/96
SURVEYED: 12/23/96
W.O. NO.
R/W NO.



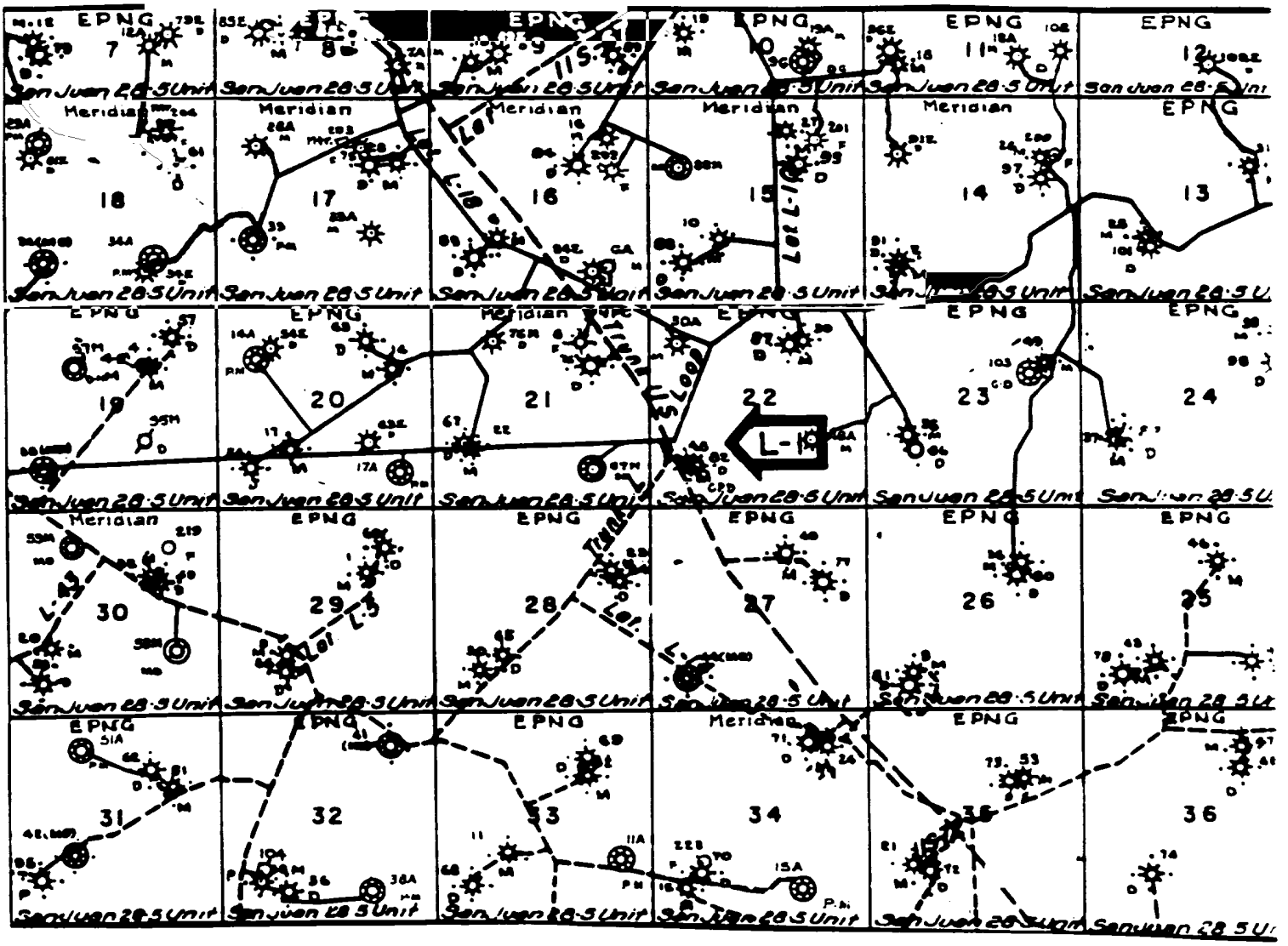
APPLICATION DWG. _____ DATE _____ METER NO. _____ FORMATION _____ METER NO. _____ FORMATION _____

AS-BUILT PIPE DATA

OWNERSHIP

SUBDIVISION	OWNER	LEASE	FEET	MILES	ACRES	ROD
0+00 TO 2+73.3	BUREAU OF LAND MANAGEMENT		273.3	0.052	0.314	16.5

1	12/30/96	PB	ISSUED FOR REVIEW	CL				



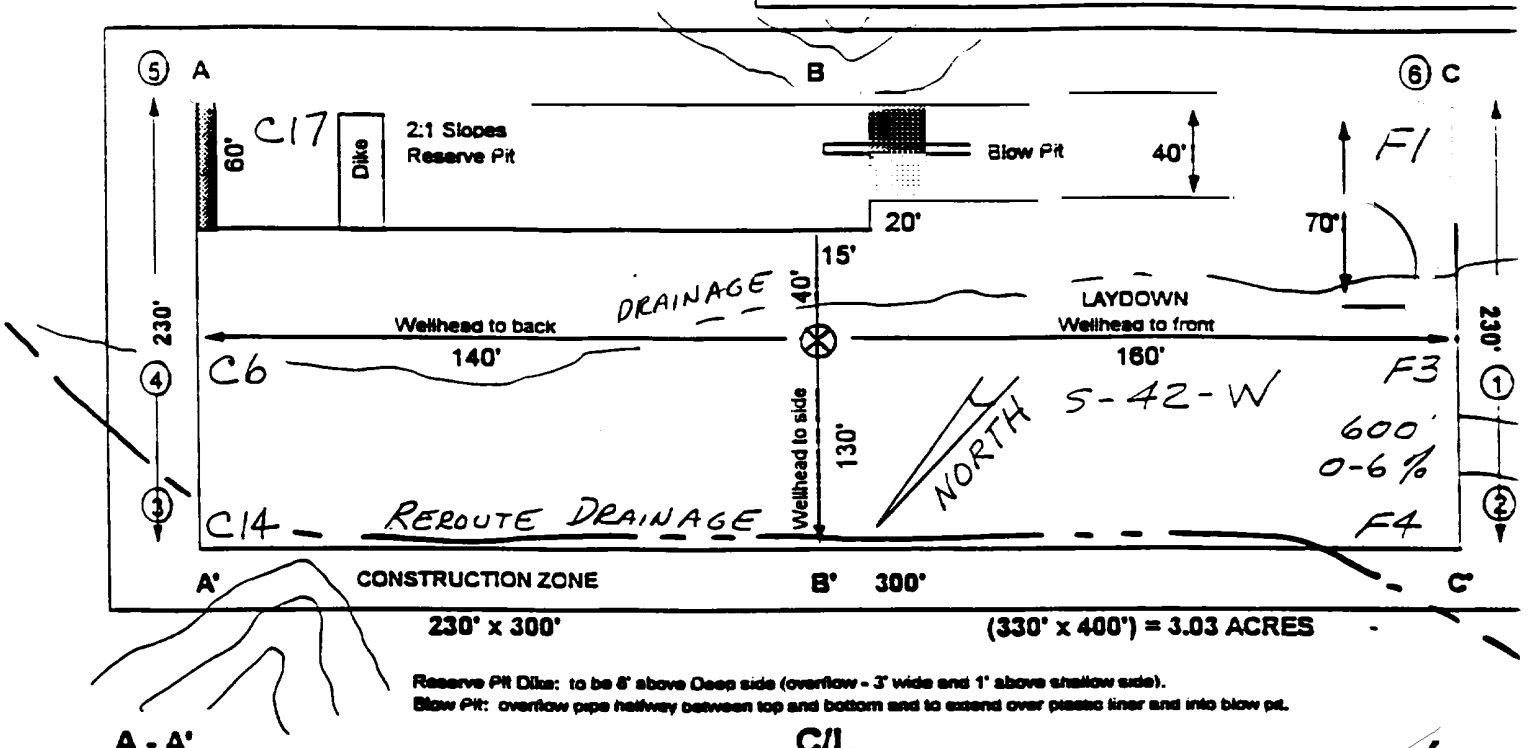
MERIDIAN OIL INC.
Pipeline Map
T-28-N, R-05-W
San Juan County, New Mexico
San Juan 28-5 Unit #73M
Map 1A

3/91 adw/mjb

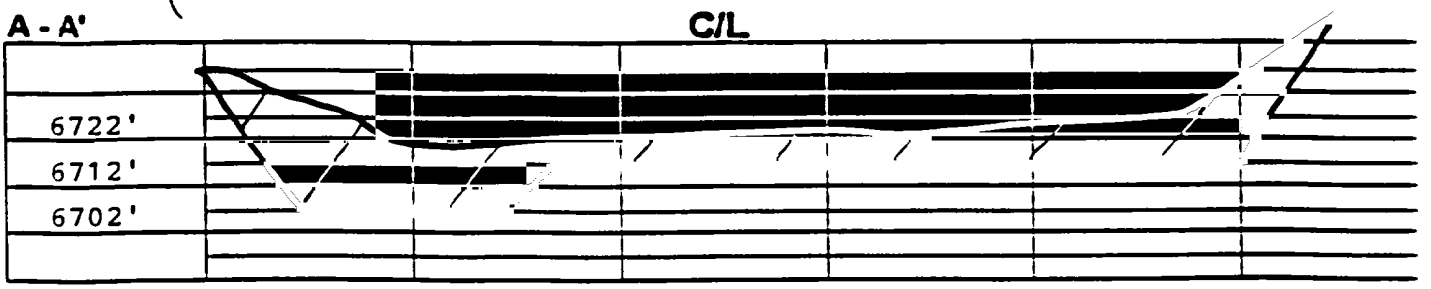
BURLINGTON RESOURCES

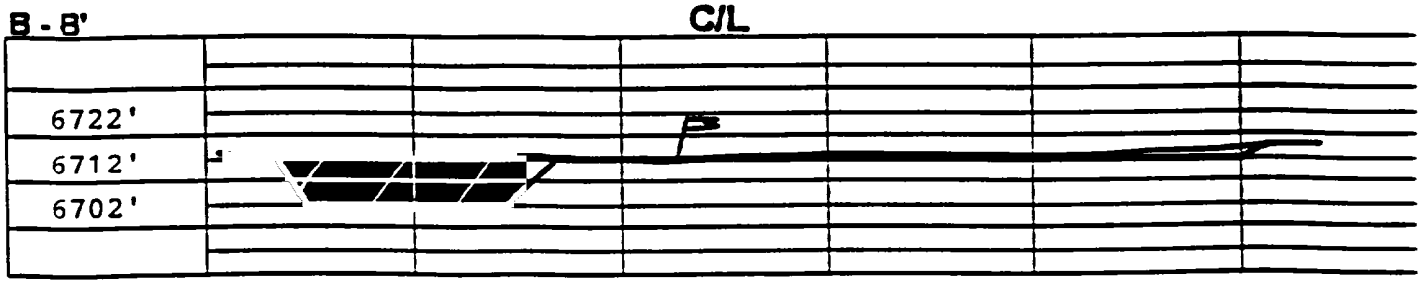
PLAT #1

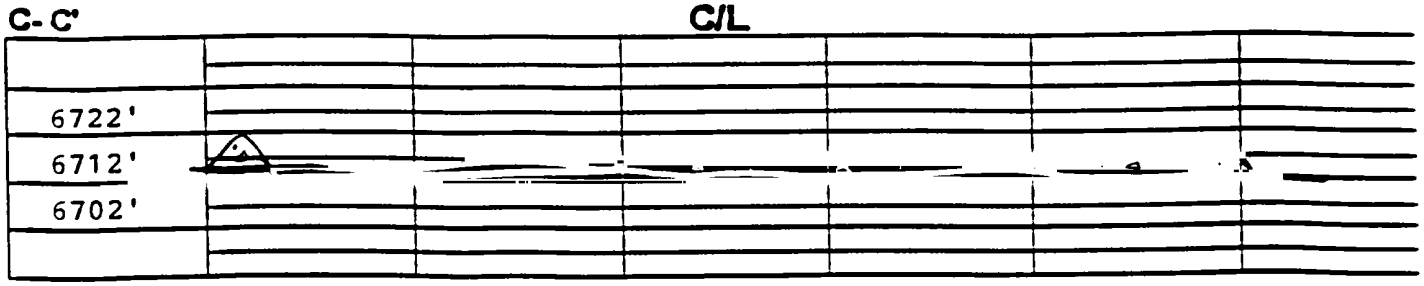
NAME: San Juan 28-5 Unit #73M
FOOTAGE: 765' FSL, 2075' FEL,
SEC 35 TWN 28 N.R 5 W NMPM
CO: Rio Arriba ST: New Mexico
ELEVATION: 6712' DATE: 12-20-96



Reserve Pit Dike: to be 6' 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.



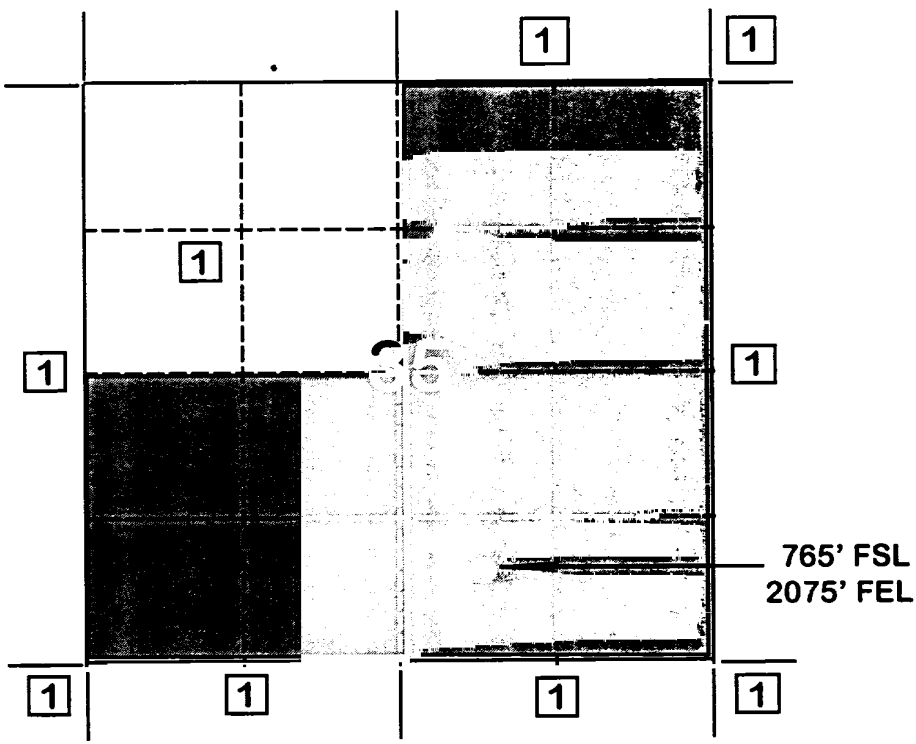




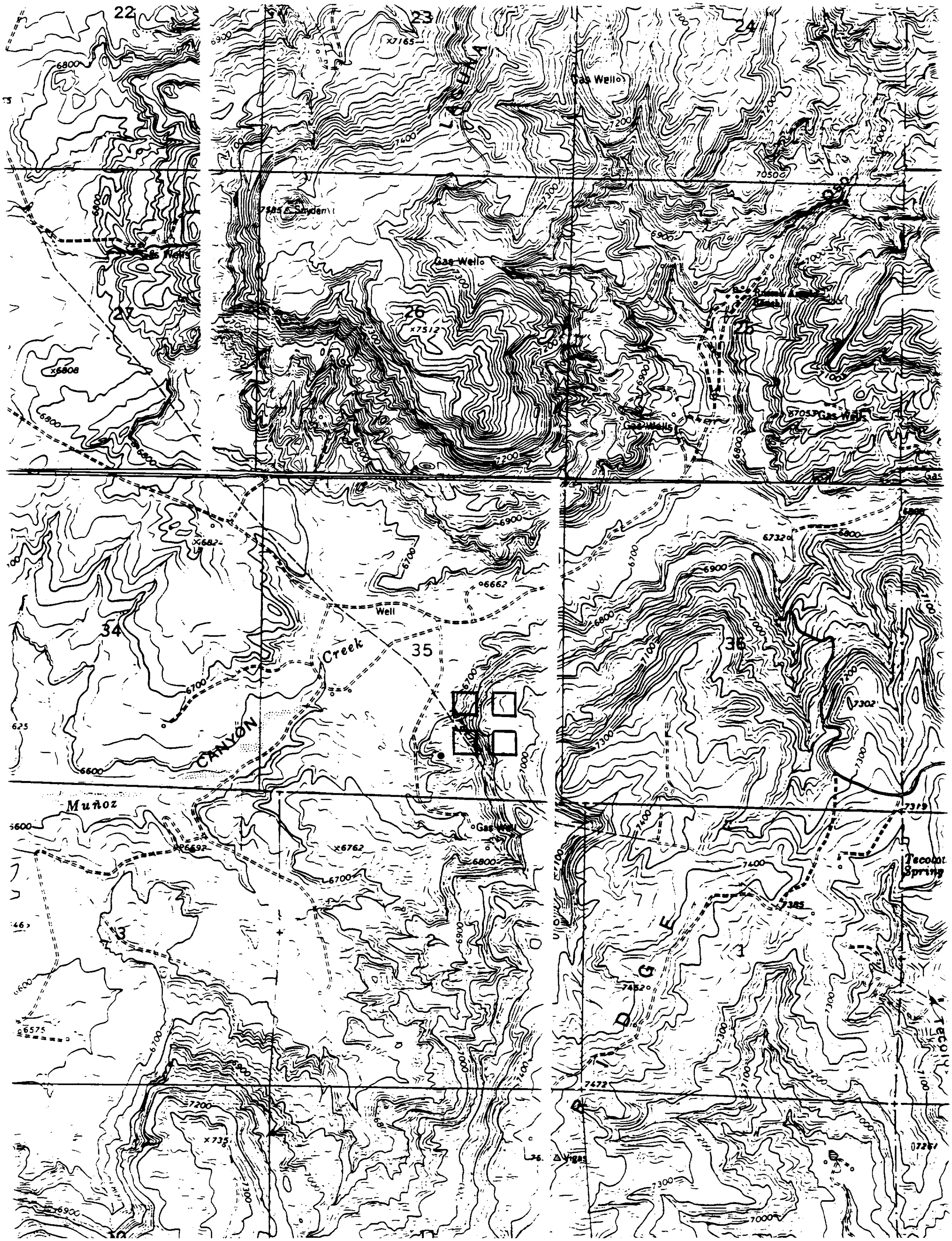
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 28-5 Unit #73M
OFFSET OPERATOR \ OWNER PLAT
Nonstandard Location
Mesaverde (S/2)/Dakota (E/2) Formations Well

Township 28 North, Range 5 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.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Gas Well
Gas Well
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Gas Wells
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Well
Creek
CANYON
Muñoz
Gas Well
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6732
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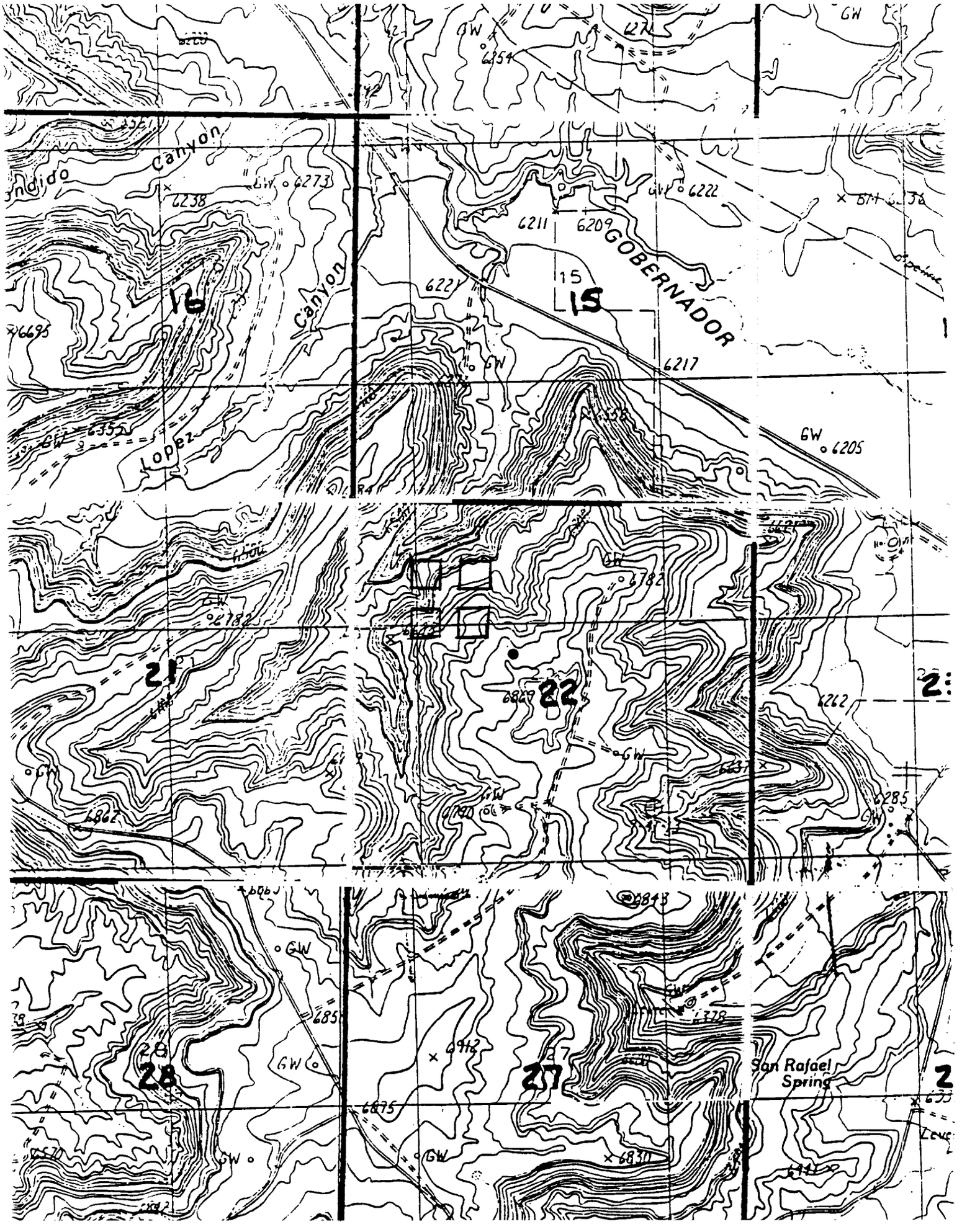
Canyon
Indido
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GOBERNADOR
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San Rafael
Spring
GW
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