

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports on Wells

97 APR 14 PM 3:58

1. Type of Well
GAS

070 FARMINGTON, NM

5. Lease Number
SF-079521A
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1650' FSL, 790' FEL, Sec. 29, T-28-N, R-5-W, NMPM

I

San Juan 28-5 Unit
8. Well Name & Number
San Juan 28-5 U #66M
9. API Well No.
30-039- 25681
10. Field and Pool
Blanco MV/Basin DK
11. County and State
Rio Arriba Co, NM

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 checked="" 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

Please find attached the amended pipeline and road plat for the subject well.

RECEIVED
APR 25 1997

OIL CON. DIV.
DIST. 3

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

Signed [Signature] (CDS) Title Regulatory Administrator Date 4/11/97

(This space for Federal or State Office use)

APPROVED BY _____ Title _____ Date _____

CONDITION OF APPROVAL, if any:

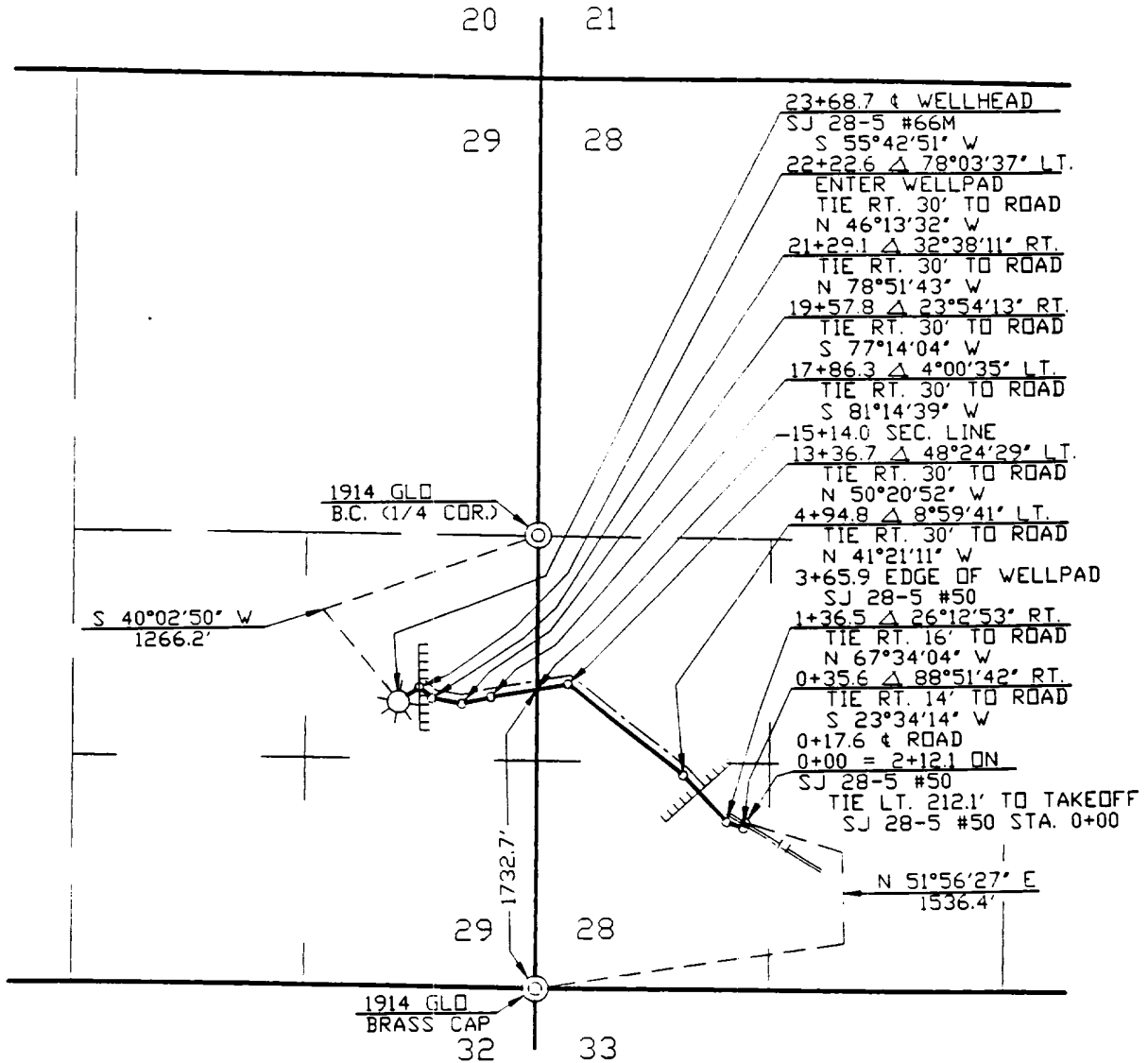
NMOCD

SAN JUAN GATHERING SYSTEM

LINE BURLINGTON RESOURCES - SJ 28-5 #66M
FROM 0+00 = 2+12.1 ON SJ 28-5 #50
(REF. DWG. L765.0-48-1)
COUNTY RIO ARriba STATE NEW MEXICO
SECTION 28 & 29 TOWNSHIP 28-N RANGE 5-W

SCALE 1"=1000'
DVG. NO. L765.0-82-1
DATE 12/2/96
DRAWN BY PB
CHECKED BY JF
SURVEYED 11/23/96
APPROVED WB
VOL. NO. 12966
APPROVED CK
R/W NO.

NOTE: BEARINGS ARE BASED ON A GRID BEARING
ALONG THE WEST LINE OF THE SW 1/4 OF
SECTION 28, T-28 N, R-5-W, NHPM
BEARS: N 1°23'31" E



APPLICATION DVG. _____ DATE _____ METER NO. _____ FORMATION _____ METER NO. _____ FORMATION _____

AS-BUILT PIPE DATA

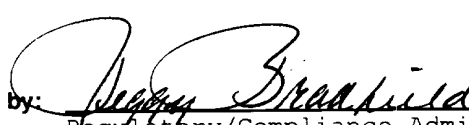
OWNERSHIP	SUBDIVISION		OWNER	LEASE	FEET	MILES	ACRES	ROD
	0+00 TO 23+68.7		BUREAU OF LAND MANAGEMENT		2368.7	0.449	2.719	143.5
2	12/31/97	JDB	REVISED PER LINE CHANGE 3/25/97	CK				
1	12/2/96	PB	ISSUED FOR REVIEW	RR				
NO.	DATE	BY	REVISION DESCRIPTION	APP.	NO.	DATE	BY	REVISION DESCRIPTION

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

97 JAN 27 AM 9:51

1a. Type of Work DRILL	5. Lease Number SF-079521A 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 66M	
4. Location of Well 1650' FSL, 790' FEL Latitude 36° 37' 47", Longitude 107° 22' 34"	10. Field, Pool, Wildcat Blanco Mesa Verde/ Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec 29, T-28N, R-5-W API # 30-039-	
14. Distance in Miles from Nearest Town 5 miles to Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 790'	17. Acres Assigned to Well 320 S/2	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 2000'	
19. Proposed Depth 7895'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6618' GR	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"	
23. Proposed Casing and Cementing Program See Operations Plan attached	24. Authorized by:  Regulatory/Compliance Administrator	
	Date 1-21-97	

PERMIT NO. _____

APPROVAL DATE 

APPROVED BY /s/ Duane W. Spencer

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

OPERATOR

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

RECEIVED
Form C-10
Revised February 21, 199
Instructions on bac
Submit to Appropriate District Office
State Lease - 4 Copies
Free Lease - 3 Copies
070 FARMINGTON, NM
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-	Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7460	Property Name San Juan 28-5 Unit	Well Number 66M
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6618'

10 Surface Location

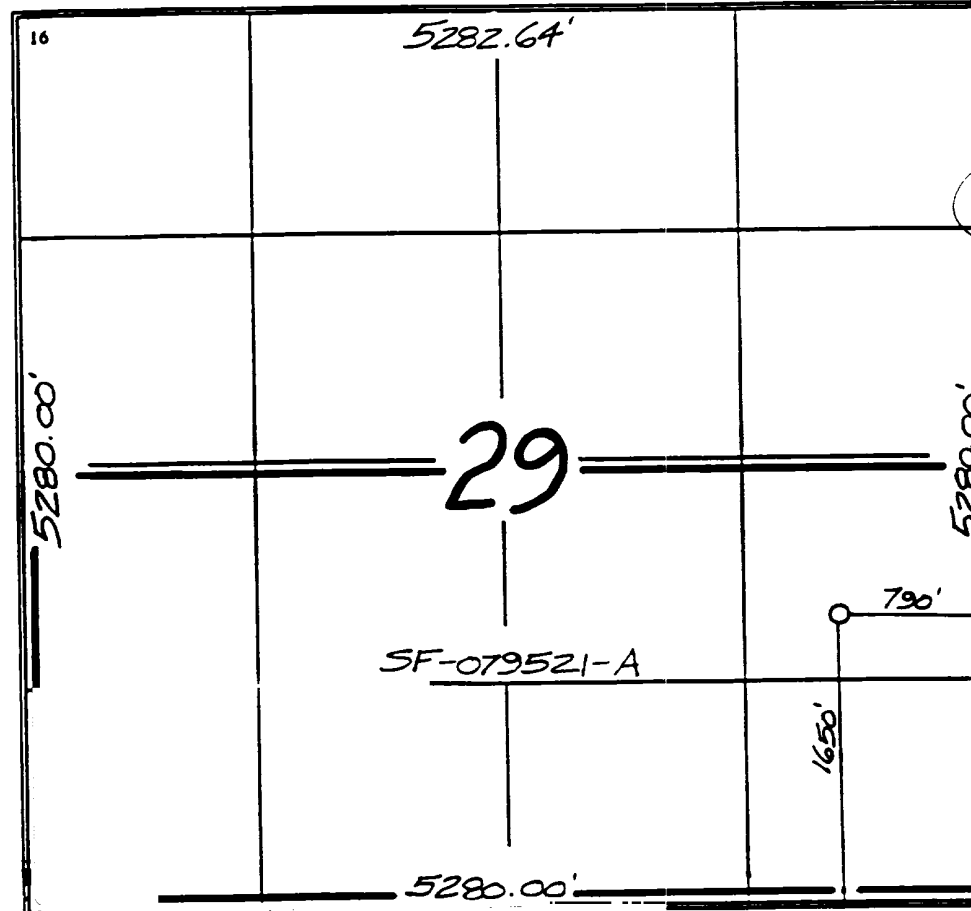
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
I	29	28-N	5-W		1650	South	790	East	R.A.

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

12 Dedicated Acres MV-S/320 DK-S/320	13 Joint or Infill	14 Consolidation Code	15 Order No.
--------------------------------------------	--------------------	-----------------------	--------------

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



17 OPERATOR CERTIFICATION

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

Peggy Bradfield
Signature
Peggy Bradfield
Printed Name
Regulatory Administrator
Title
1-21-97
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 me or under my supervision, and that the same is true and correct to the best of my belief.

11/02/96

Date of Survey
Signature and Seal of Professional Surveyor
NEALE C. EDWARDS
NEW MEXICO
6857
6857
Certificate Number

OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #66M
Location: 1650' FSL, 790' FEL Sec 29, T-28-N, R-5-W
 Rio Arriba County, NM
 Latitude 36° 37' 47", Longitude 107° 22' 34"
Formation: Blanco Mesa Verde/Basin Dakota
Elevation: 6618' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2780'	
Ojo Alamo	2780'	3020'	aquifer
Fruitland	3020'	3445'	gas
Pictured Cliffs	3445'	3580'	gas
Lewis	3580'	4030'	gas
Intermediate TD	3630'		
Mesa Verde	4030'	4405'	gas
Chacra	4405'	5130'	
Massive Cliff House	5130'	5290'	gas
Menefee	5290'	5620'	gas
Massive Point Lookout	5620'	6805'	gas
Gallup	6805'	7550'	gas
Greenhorn	7550'	7658'	gas
Graneros	7658'	7754'	gas
Dakota	7754'		gas
TD	7895'		

Logging Program:

Cased hole -Gamma Ray/Neutron

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
200-3630'	LSND	8.4-9.0	30-60	no control
3630-7895'	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' - 3630'	7"	20.0#	J-55
6 1/4"	3530' - 6855'	4 1/2"	10.5#	J-55
6 1/4"	6855' - 7895'	4 1/2"	11.6#	J-55

Tubing Program:

0' - 7895' 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/341 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 (1092 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 3020'. Two turbolating centralizers at the base of the Ojo Alamo at 3020'. 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 113 sx 65/35 Class "B" poz with 6% gel, 5# gilsonite/sx and 1/4# flocele/sx. Tail with 299 sx 50/50 Class "B" Poz with 1/4# flocele/sx, 5# gilsonite/sx, and 0.3% fluid loss additive (607 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.

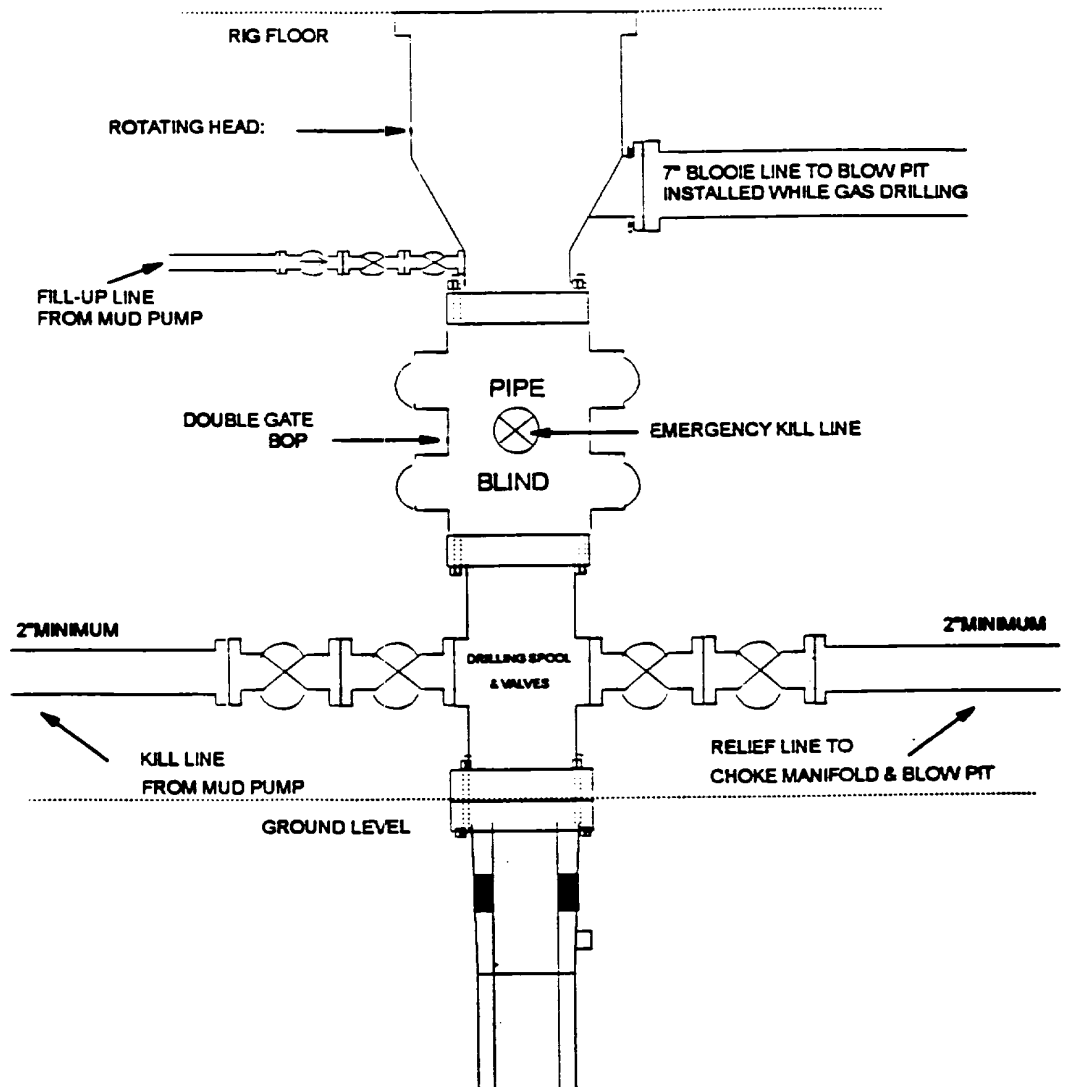


Drilling Engineer

Date 1/21/97

BURLINGTON RESOURCES

BOP Configuration 2M psi System

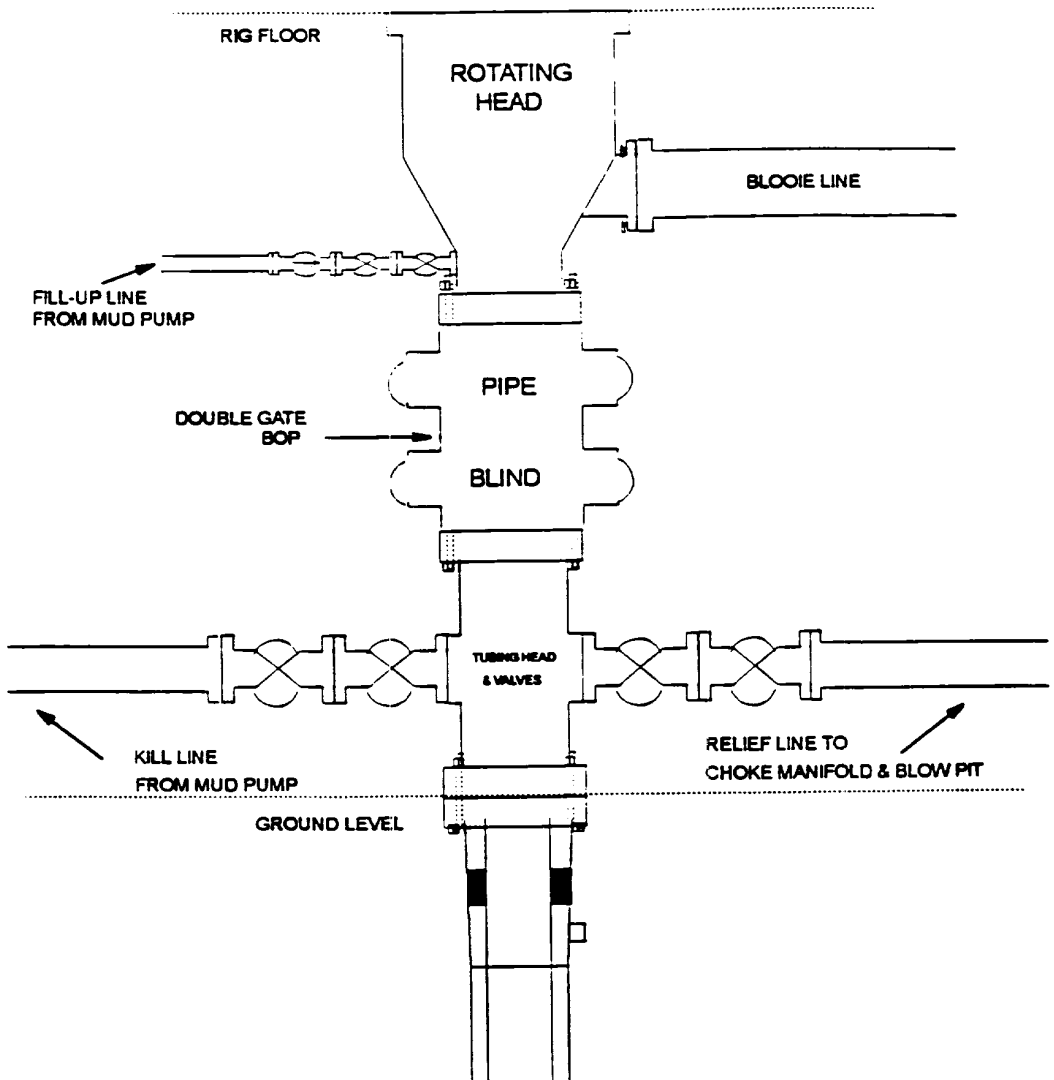


11" Bore, 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of the BOP. All equipment is 2000psi working pressure/or greater.

FIGURE #1

BURLINGTON RESOURCES

BOP Configuration 2M psi System

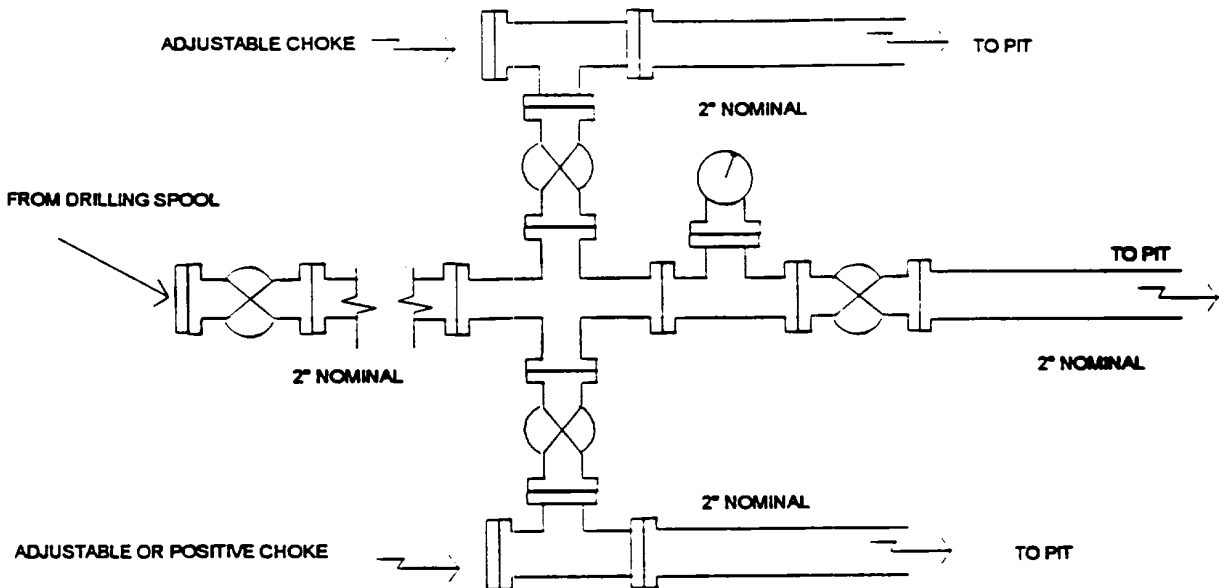


Minimum BOP installation for Completion operations. 7 1/16" Bore (6" Nominal), 2,000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams.

FIGURE #2

BURLINGTON RESOURCES

Choke Manifold Configuration 2M System



Minimum choke manifold installation from surface to Total Depth.
2" minimum, 2000psi working pressure equipment with two chokes.

Figure #3

BURLINGTON RESOURCES

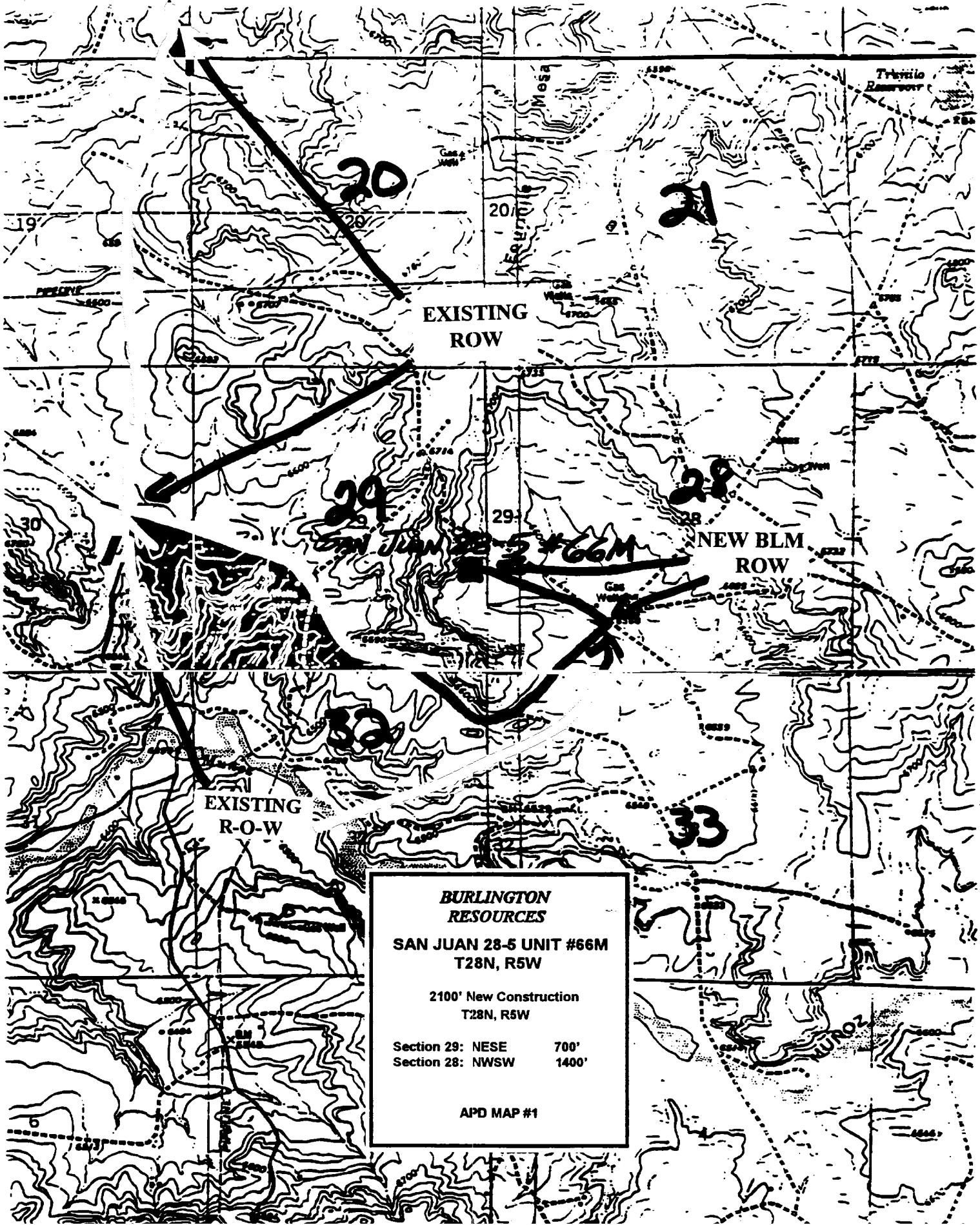
San Juan 28-5 Unit #66M
Multi-Point Surface Use Plan

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 2100' 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 Services.
5. Location and Type of Water Supply - Water will be hauled by truck for the proposed project and will be obtained from San Juan 28-6 Water Well located SW/4 Section 23, T-28-N, R-6-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.


Regulatory/Compliance Administrator

1-21-97
Date



**BURLINGTON
RESOURCES**

**SAN JUAN 28-5 UNIT #66M
T28N, R5W**

**2100' New Construction
T28N, R5W**

**Section 29: NESE 700'
Section 28: NWSW 1400'**

APD MAP #1

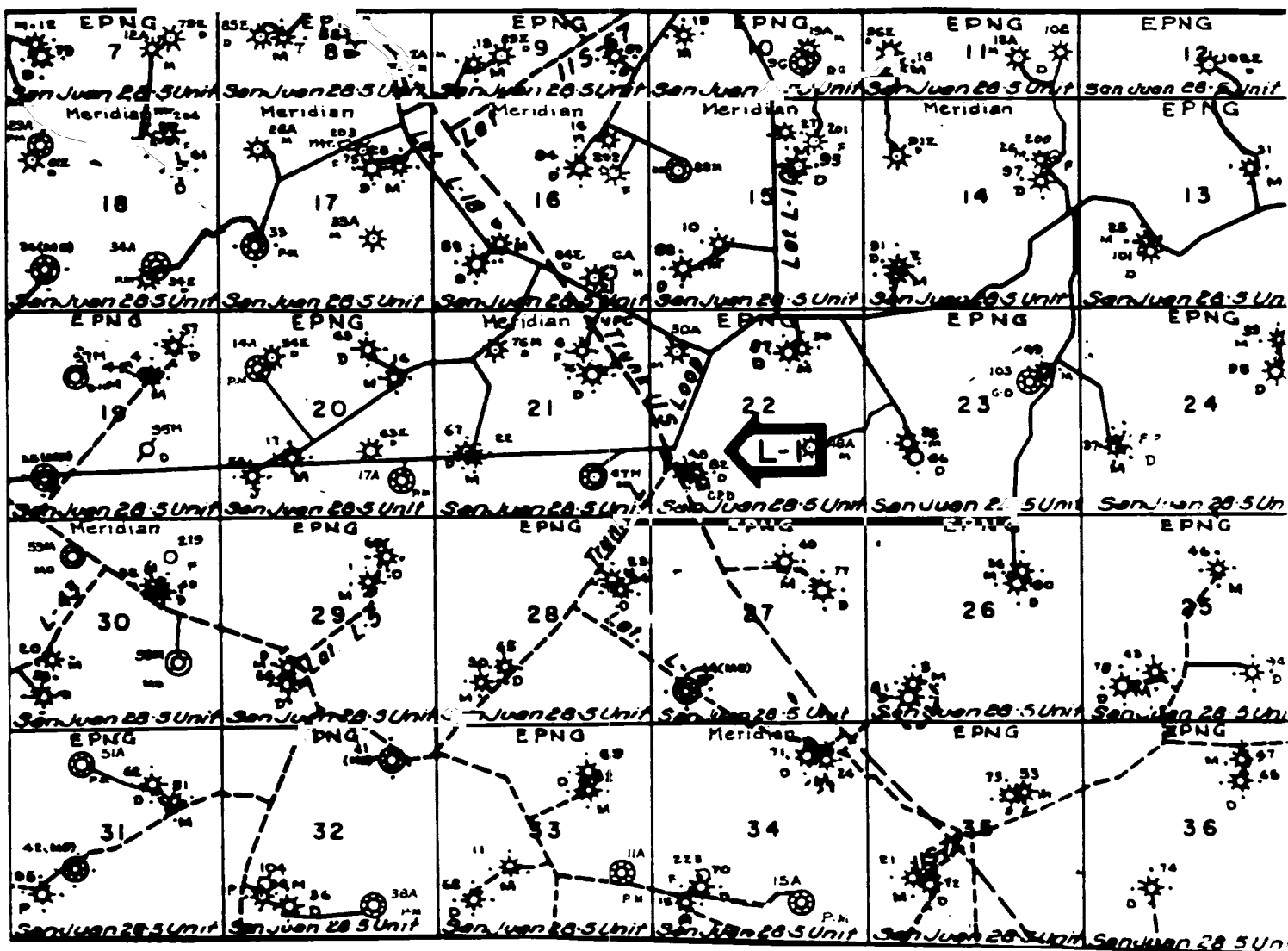
WILLIAMS GAS PROCESSING
ONE OF THE WILLIAMS COMPANIES

DWG. NO. 1765.0-82-1
DATE 12/2/96
SURVEYED 11/23/96
V/L NO. 12966
R/V NO. _____

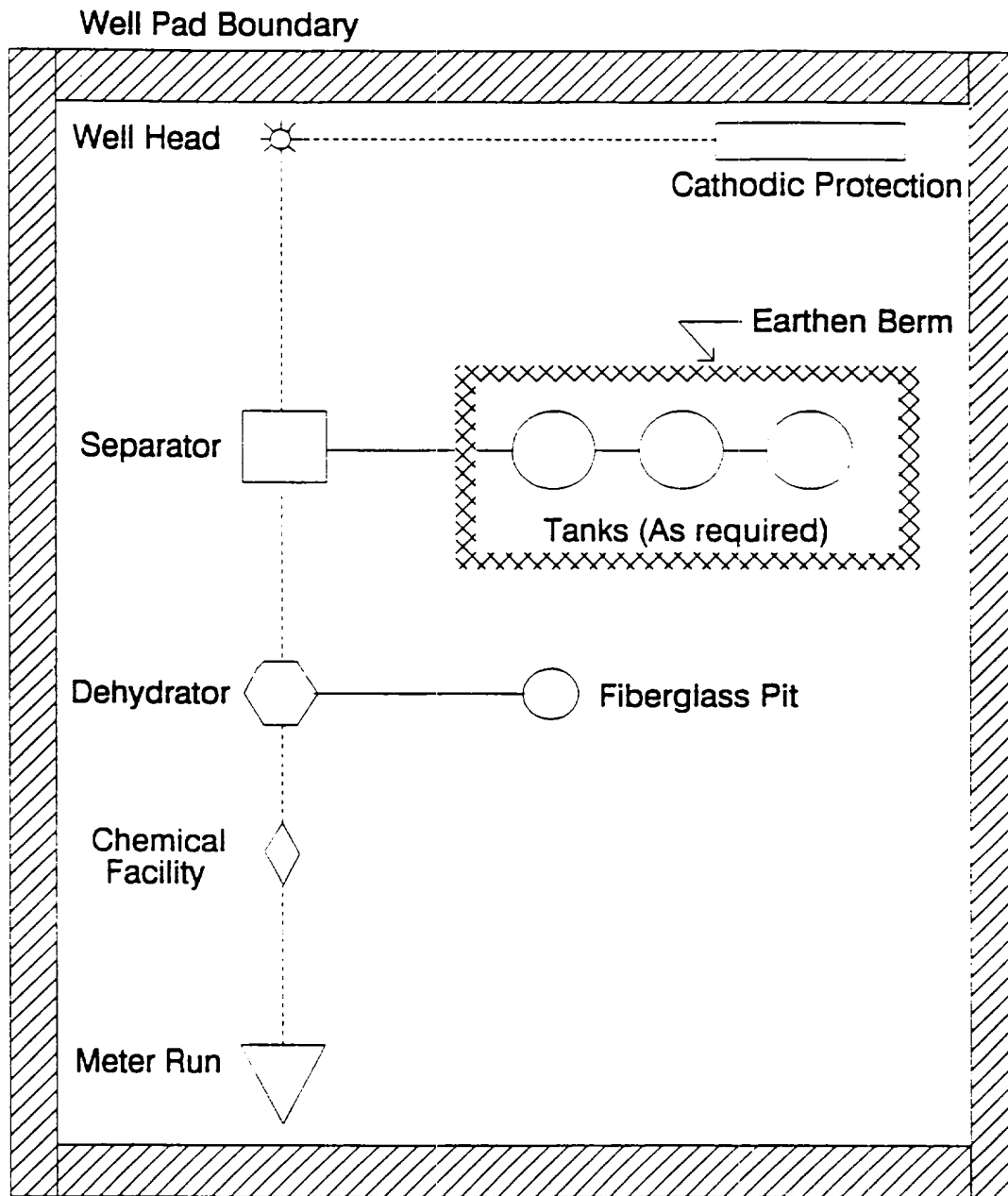


AS-BUILT PIPE DATA

OWNERSHIP	SUBDIVISION		OWNER	LEASE	FEET	MILES	ACRES	RODS	
	0+00 TO 22+54.3		BUREAU OF LAND MANAGEMENT		2254.3	0.427	2.588	136.624	
1	12/2/96	PB	ISSUED FOR REVIEW	RR					
NO.	DATE	BY	REVISION DESCRIPTION	APP.	NO.	DATE	BY	REVISION DESCRIPTION	APP.



MERIDIAN OIL INC.
 Pipeline Map
 T-28-N, R-05-W
 San Juan County, New Mexico
 San Juan 28-5 Unit #66M
 Map 1A



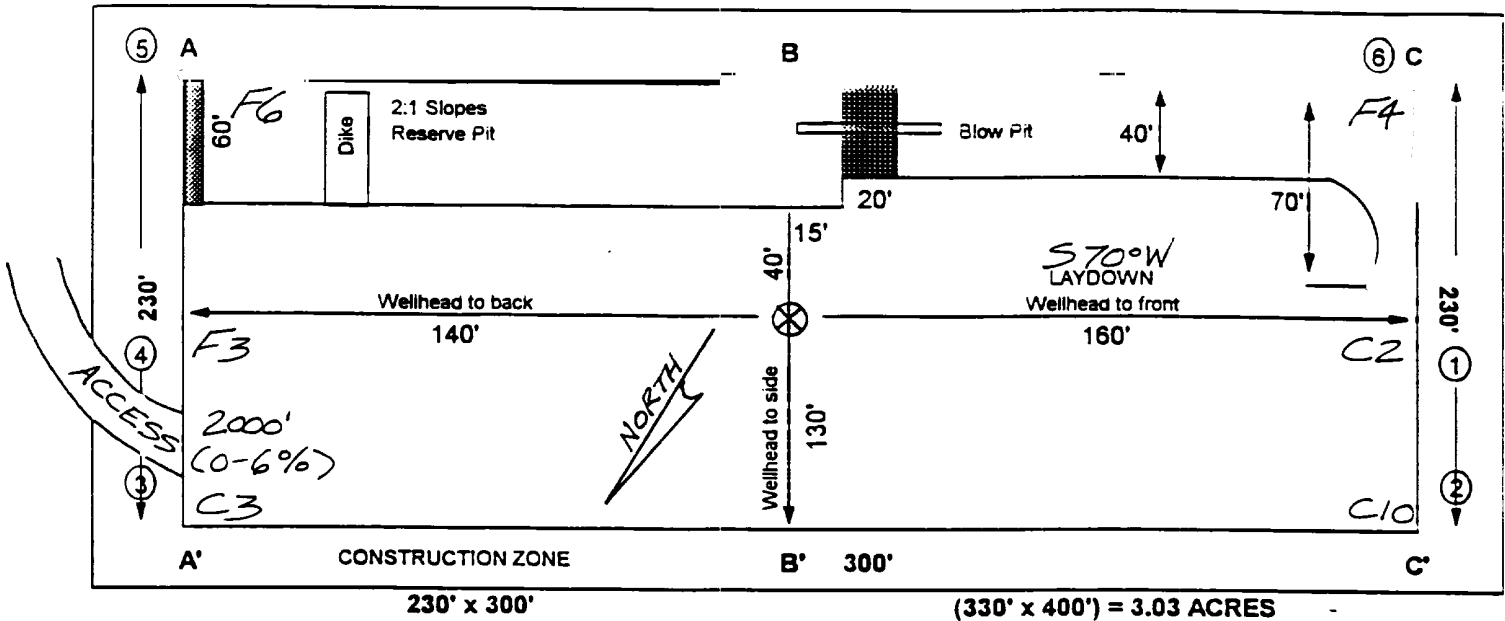
PLAT #1

ANTICIPATED
PRODUCTION FACILITIES
FOR A
DAKOTA WELL

BURLINGTON RESOURCES

PLAT #1

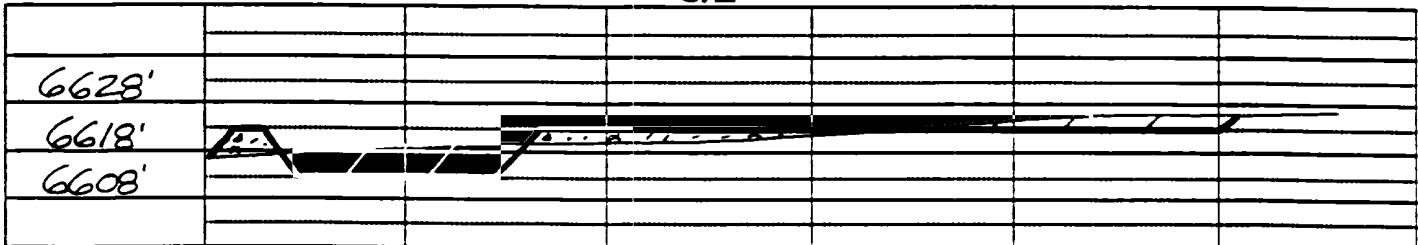
NAME: SAN JUAN 28-5 UNIT #66M
 FOOTAGE: 1650' FSL 790' FEL
 SEC 29 TWN 28 N.R. 5 W NMPM
 CO: RIO ARriba ST: NEW MEXICO
 ELEVATION: 6618' DATE: 11/02/96



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.

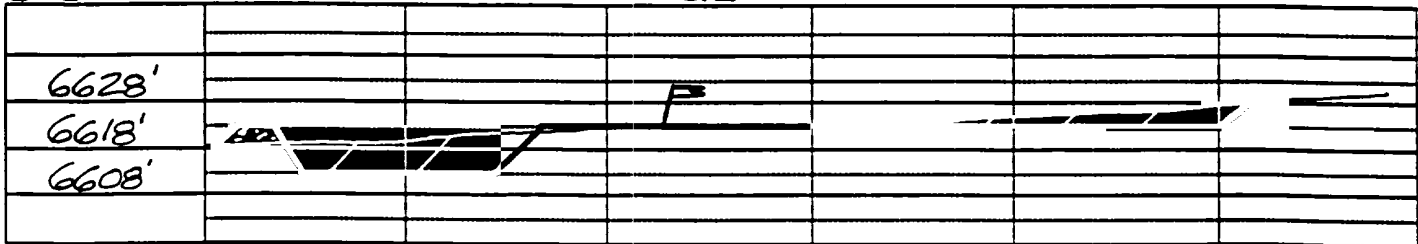
A - A'

C/L



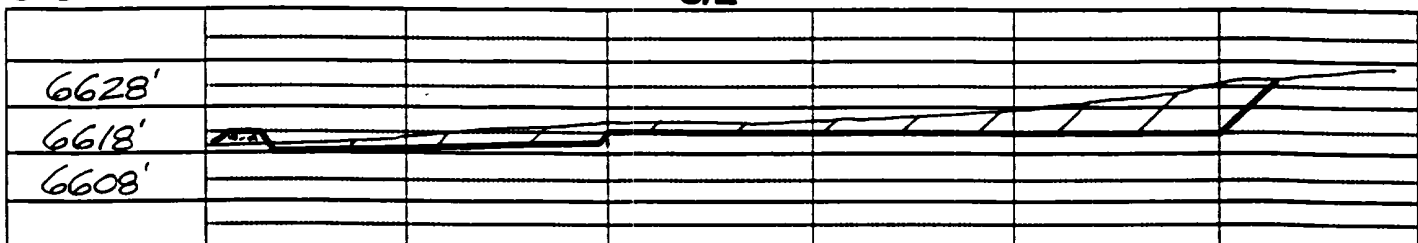
B - B'

C/L



C - C'

C/L



Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables