

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-078511 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Quinn 9. Well Number 7B
4. Location of Well 805' FSL, 1685' FEL Latitude 36° 53.6, Longitude 107° 41.7	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 17, T-31-N, R-8-W API # 30-045-30057
14. Distance in Miles from Nearest Town 18 miles from Navajo Dam Post Office	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 805'	
16. Acres in Lease	17. Acres Assigned to Well 320 E/2
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 800'	
19. Proposed Depth 6128'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6543' GR	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>Peggy Cole</u> Regulatory/Compliance Administrator	<u>10-14-99</u> Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Chip Hamaden TITLE Acting team Lead DATE 1/14/00

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.

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AMOC

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-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-30057		*Pool Code 72319	*Pool Name Blanco Mesaverde
*Property Code 7407	*Property Name QUINN		*Well Number 7B
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 6543'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	17	31N	8W		805	SOUTH	1685	EAST	SAN JUAN

¹¹ 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
¹² Dedicated Acres E/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

<div><div>16</div><div>5334.78'</div><div>5230.50'</div><div>17</div><div>SF-078511</div><div>5235.12'</div><div>805'</div><div>1685'</div><div>5212.68'</div></div>	<div><div><div>JAN 2000 RECEIVED OILCON. DIV DIST. 3</div></div></div>	<div><div>¹⁷ OPERATOR CERTIFICATION</div><div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div><div><div>Peggy Cole</div><div>Signature</div><div>Peggy Cole</div><div>Printed Name</div><div>Regulatory Administrator</div><div>Title</div><div>10-14-99</div><div>Date</div></div></div>
	<div><div><div>5235.12'</div><div>805'</div><div>1685'</div><div>5212.68'</div></div></div>	<div><div>¹⁸ SURVEYOR CERTIFICATION</div><div>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.</div><div><div>AUGUST 30, 1999</div><div>Date of Survey</div><div>NEALE C. EDWARDS</div><div>Signature and Seal</div><div>NEW MEXICO</div><div>6857</div><div>CERTIFIED PROFESSIONAL SURVEYOR</div></div></div> <div><div>Certificate Number</div><div>6857</div></div>

OPERATIONS PLAN

Well Name: Quinn #7B
Surface Location: 805' FSL, 1685' FEL, Section 17, T-31-N, R-8-W
San Juan County, New Mexico
Latitude 36° 53.6, Longitude 107° 41.7

Formation: Blanco Mesa Verde
Elevation: 6543' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2193'	aquifer
Ojo Alamo	2193'	2260'	aquifer
Kirtland	2260'	2862'	gas
Fruitland	2862'	3427'	gas
Pictured Cliffs	3427'	3529'	gas
Lewis	3529'	4194'	gas
Intermediate TD	3629'		
Mesa Verde	4194'	4574'	gas
Chacra	4574'	5361'	gas
Massive Cliff House	5361'	5415'	gas
Menefee	5415'	5728'	gas
Point Lookout	5728'		gas
Total Depth	6128'		

Logging Program:

Cased hole logging - Gamma Ray, Cement bond from surface to TD
Mud Logs/Coring/DST - none

Mud Program:

<u>Interval- MD</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- 3629'	LSND	8.4-9.0	30-60	no control
3629- 6128'	Air/Mist	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>Measured Depth</u>	<u>Csg Size</u>	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3629'	7"	20.0#	J-55
6 1/4"	3529' - 6128'	4 1/2"	10.5#	J-55

Tubing Program: 0' -6128' 2 3/8" 4.7# J-55

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.

BOP Specifications, Wellhead and Tests (cont'd):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 2000 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 drill crew.
- All BOP tests & 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 159 sx Class "B" cement with 1/4# flocele/sx and 3% 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/332 sx Class "B" w/3% sodium metasilicate, 7# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 7# gilsonite/sx and 0.5# flocele/sx (1092 cu.ft. of slurry, 100% 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 to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage: Stage collar at 2762'. First stage: cement with 125 sx Class "B" 50/50 poz w/2% gel, 7 pps Gilsonite, 1% calcium chloride, 0.5 pps Cellophane. Second stage: 286 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 7 pps Gilsonite (1092 cu.ft., 100% excess to circulate to surface).

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 2260'. Two turbolating centralizers at the base of the Ojo Alamo at 2260'. 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 circulate liner top. Pump 283 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 2% gel, 0.1% retardant, 5# gilsonite/sx and 0.4% fluid loss additive (374 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

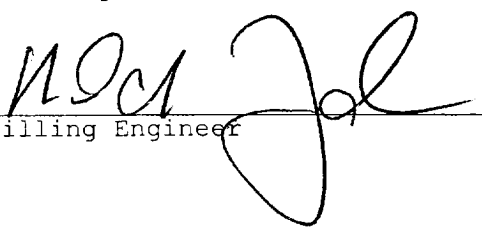
The following equipment will be operational while gas/mist drilling:

- 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.
- 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:

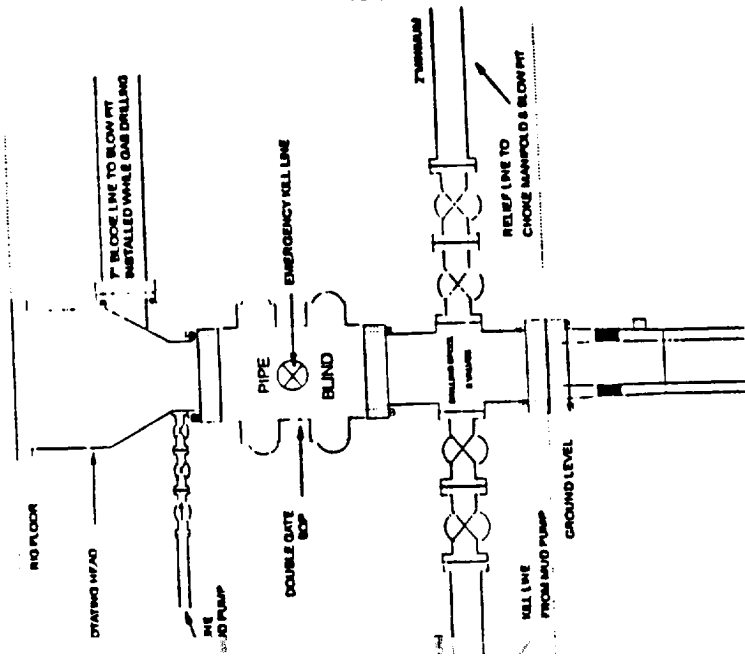
- The Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal	800 psi
Pictured Cliffs	800 psi
Mesa Verde	700 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The east half of Section 17 is dedicated to the Mesa Verde.
- This gas is dedicated.


Drilling Engineer

10/19/99
Date

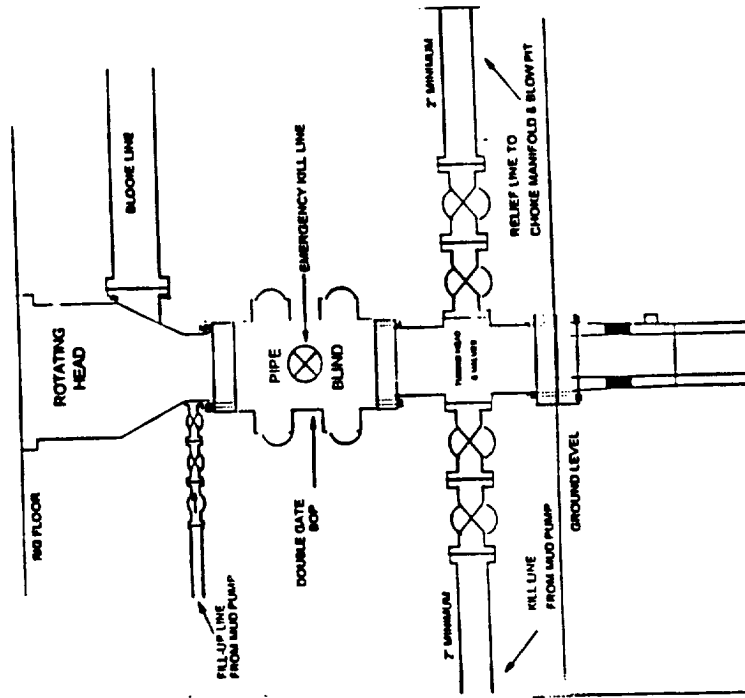
BOP Configuration 2M psi System



ors, 2000psi minimum working pressure double gate BOP to be equipped
blind and pipe rams. A Schaeffer Type 50 or equivalent rotating head to be
lled on the top of the BOP. All equipment is 2000psi working pressure
let.

FIGURE #1

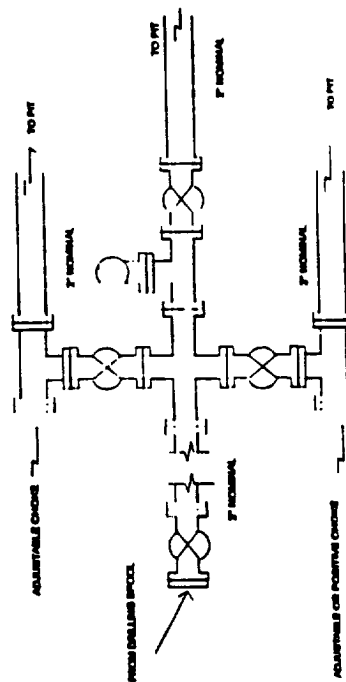
BOP Configuration 2M psi System



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

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

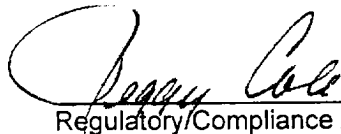
BURLINGTON RESOURCES

Quinn #7B

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 100' new 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 Jacquez Ditch located in Section 19, T-30-N, R-8-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.

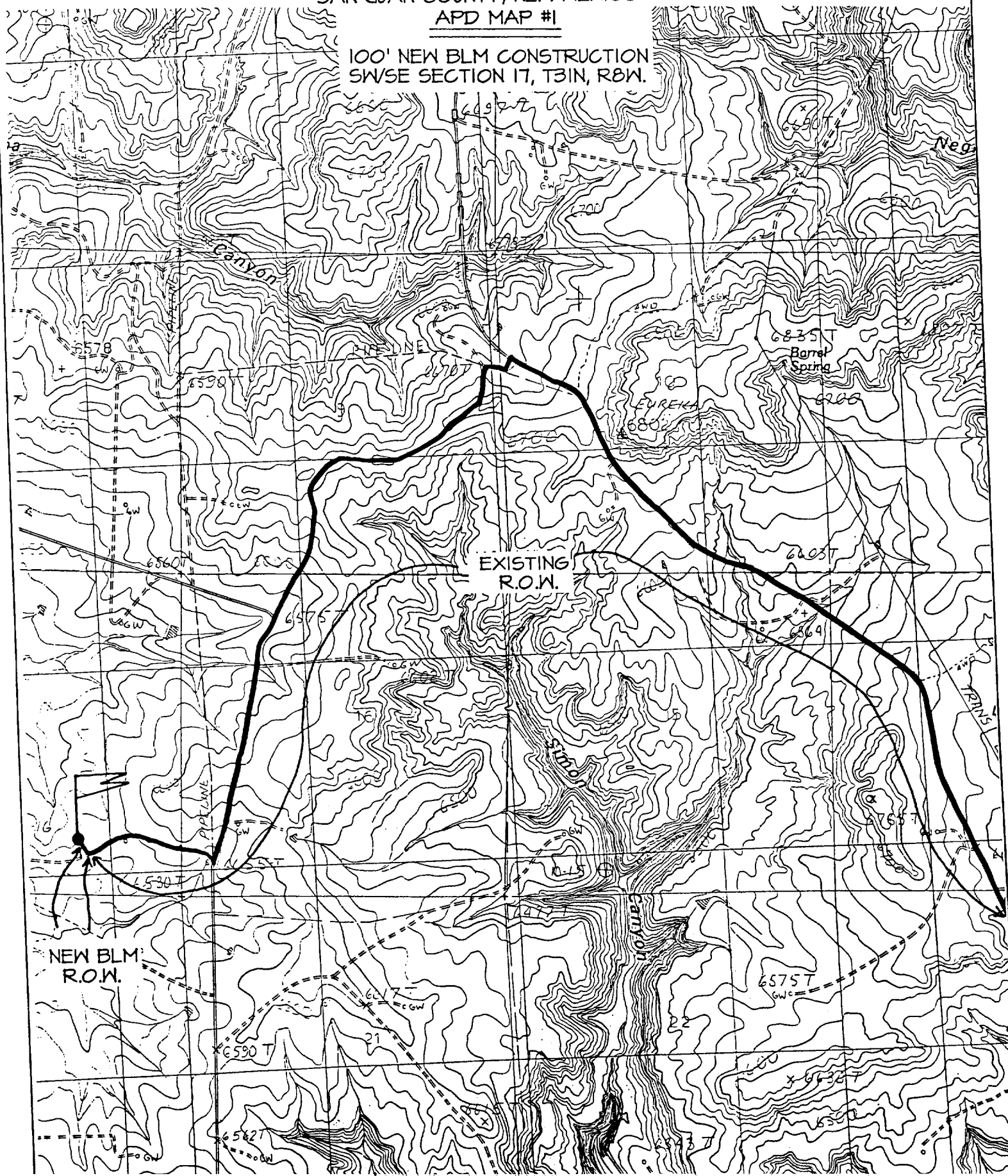
10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be 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.

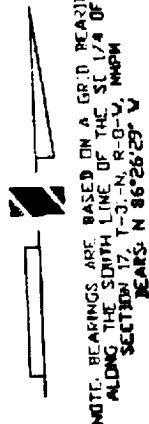

Regulatory/Compliance Administrator

10-14-99
Date

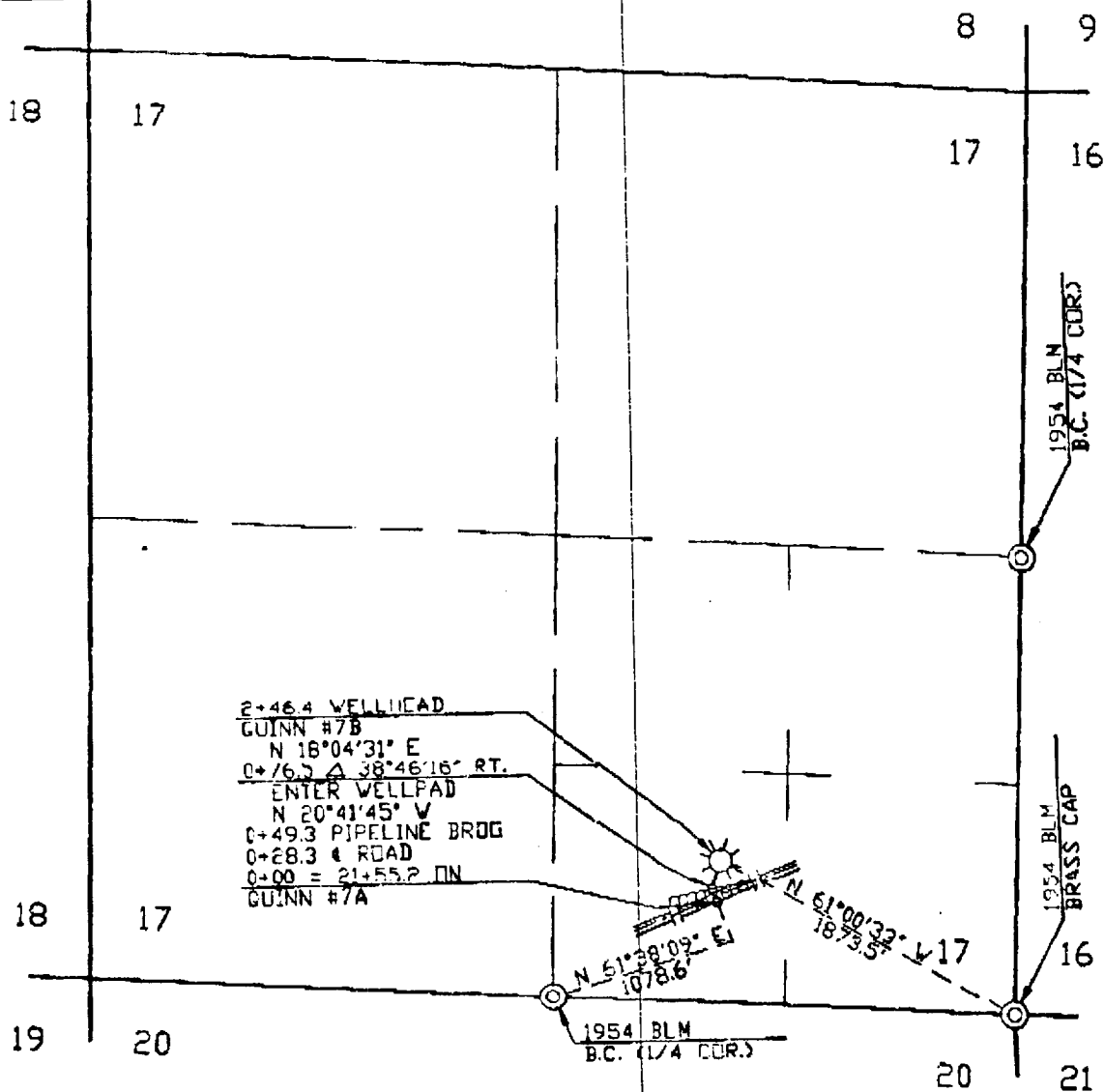
APD MAP #1

100' NEW BLM CONSTRUCTION
SW/SE SECTION 17, T31N, R8W.





NOTE: READINGS ARE BASED ON A GRID BEARING.
ALONG THE SOUTH LINE OF THE SEC 17/4 OF
SECTION 17, T-31-N, R-8-W, NMPM
BEARS N 86°26'29" V



PIPE DATA

OWNERSHIP

REVISION

INFO

R/W#

METER#

SURVEYED

ENGINEER

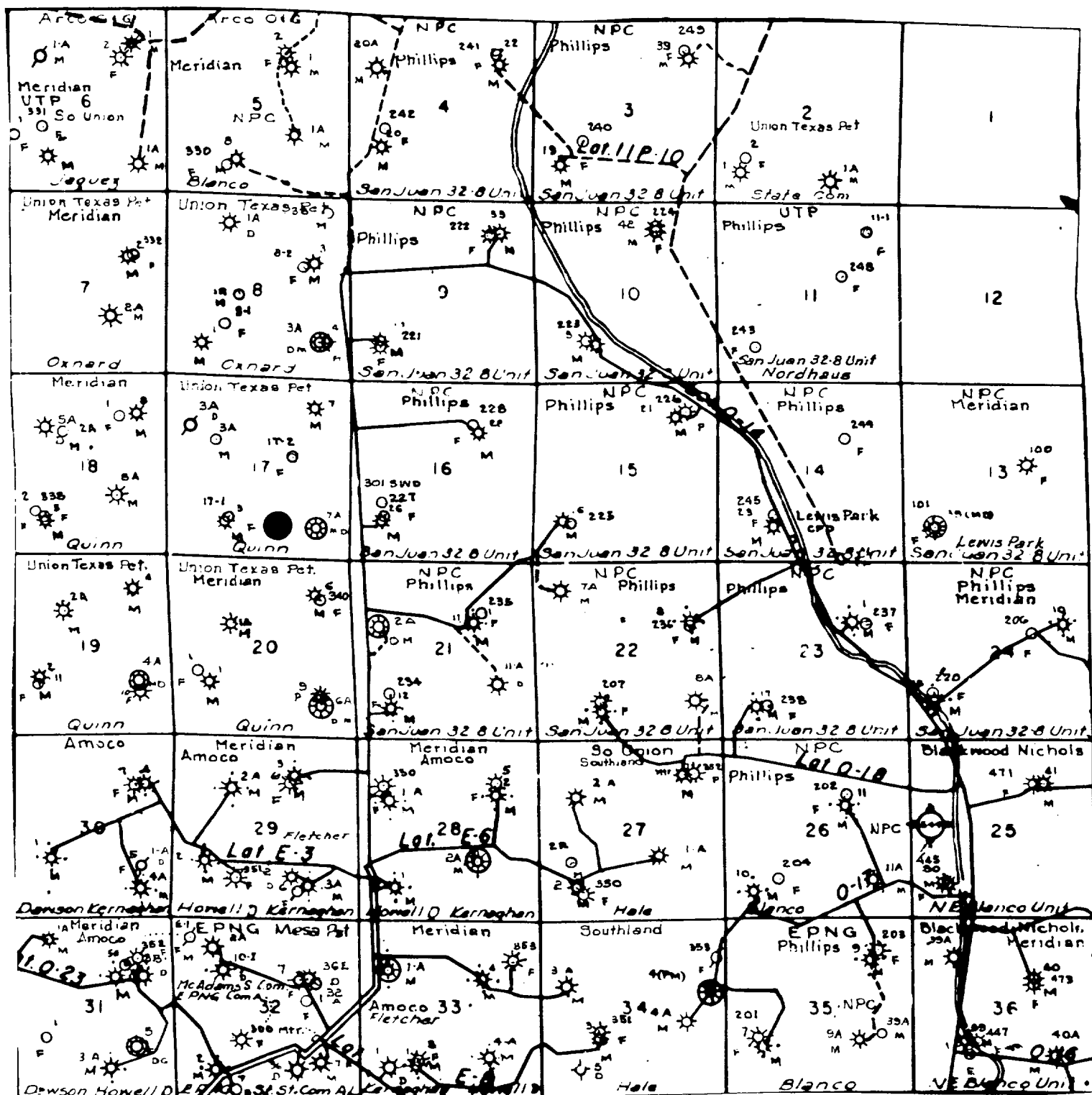
DESIGNED BY

PROJ. APPROVED

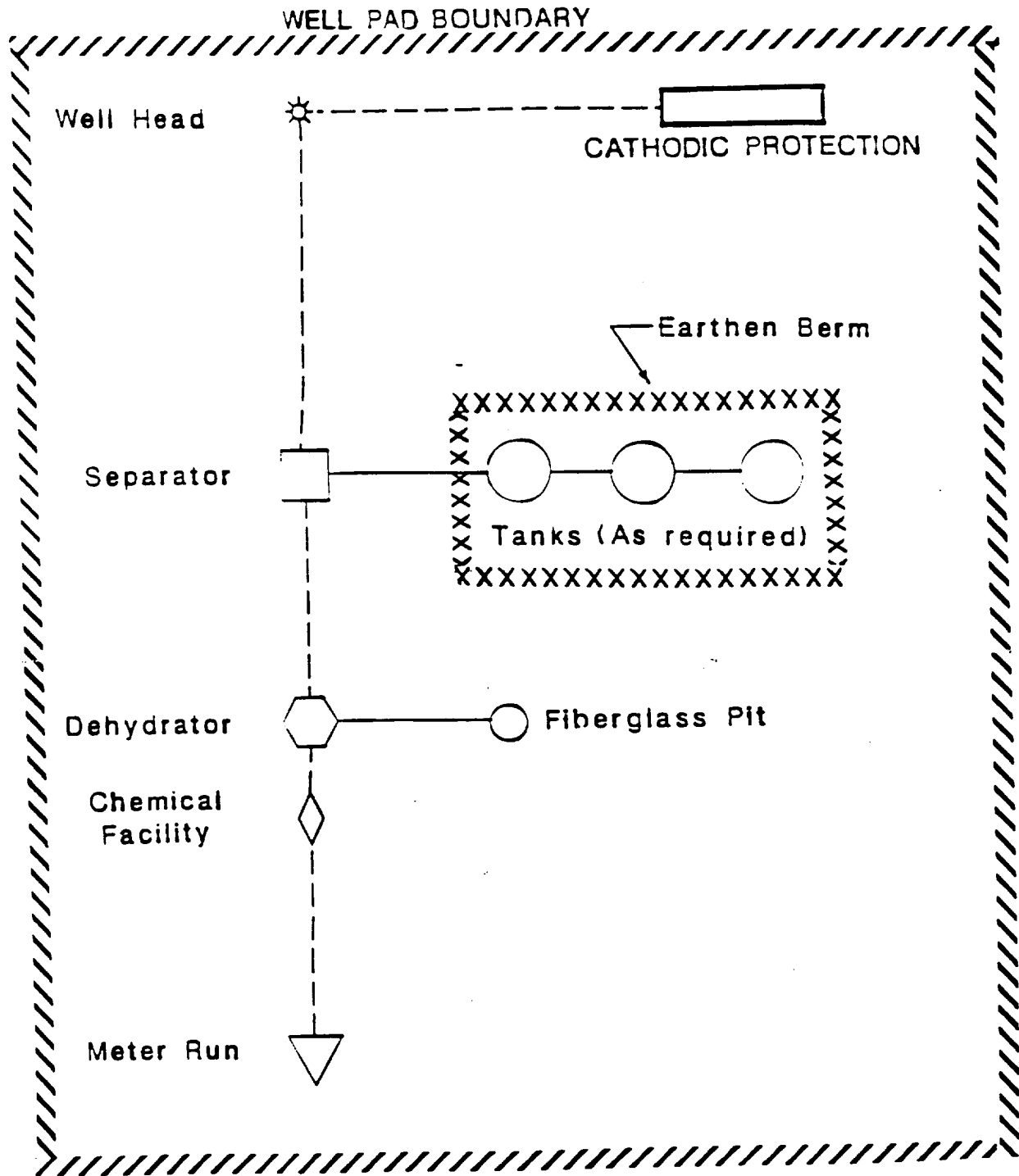
SUBDIVISION	OWNER	WELL	MILES	ACRES	RODS
0+00 TO 2+46.4	BUREAU OF LAND MANAGEMENT	2+46.4	0.047	0.226	14.933

NO.	DATE	BY	DESCRIPTION	V.D.NO.	CHK.	APP.
1	11/4/99	JCB	ISSUED FOR REVIEW		FAU	

DRAFTING	BY	DATE	STATE: NEW MEXICO	WILLIAMS GAS PROCESSING - BLANCO
DRAWN BY	JCB	11/4/99	COUNTY: SAN JUAN	ONE OF THE WILLIAMS COMPANIES
CHECKED BY	FAU	11/4/99		TORRE ALTA GATHERING SYSTEM
APPROVED BY				BRDG - QUINN #7B
ENGINEER	BY	DATE		0+00 = 21+55.2 ON QUINN #7A
DESIGNED BY				(REF. DWG.)
PROJ. APPROVED				SEC. 17, T-31-N, R-8-W, NMPM
			SCALE: 1" = 1000'	DWG NO. G799.0-12-1
			V.D. NO.	



MERIDIAN OIL INC.
 Pipeline Map
 T-31-N, R-08-W
 San Juan County, New Mexico
 Quinn #7B
 Map 1A

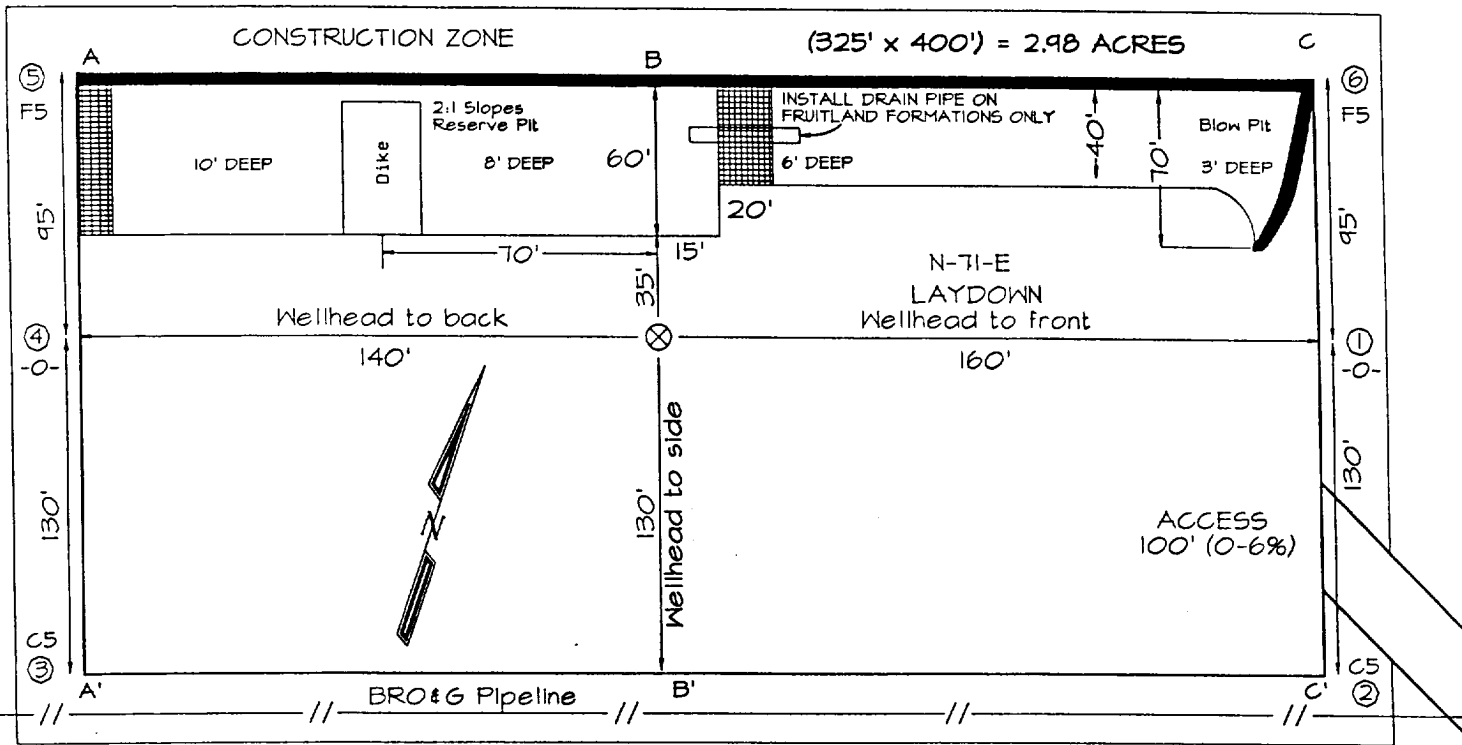


PLAT #1

**ANTICIPATED
PRODUCTION FACILITIES
FOR A
MESA VERDE WELL**

PLAT #1

BURLINGTON RESOURCES OIL & GAS COMPANY
QUINN #7B, 805' FSL & 1685' FEL
SECTION 17, T31N, R8W, NMPM, SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6543' DATE: AUGUST 30, 1999



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'						
6553'						
6543'						
6533'						

B-B'						
6553'						
6543'						
6533'						

C-C'						
6553'						
6543'						
6533'						

Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables. If no response, call at least two (2) working days prior to construction.