

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL

1b. Type of Well
GAS

2. 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
2225' FSL, 2450' FWL
Latitude 36° 33.5, Longitude 107° 12.3

5. Lease Number
SF-080672

6. If Indian, All. or Tribe

7. Unit Agreement Name
San Juan 27-4 Unit

8. Farm or Lease Name
San Juan 27-4 Unit

9. Well Number
155

10. Field, Pool, Wildcat
Blanco Mesaverde

11. Sec., Twn, Rge, Mer. (NMPM)
K Sec. 24, T-27-N, R-4-W
API# 30-039-26518

12. County
Rio Arriba

13. State
NM

14. Distance in Miles from Nearest Town
23 miles from Gobernador

15. Distance from Proposed Location to Nearest Property or Lease Line
2225'

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
1600'

19. Proposed Depth
6657'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
7275' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: [Signature]
Regulatory/Compliance Supervisor

Date 8-17-00

PERMIT NO.

APPROVAL DATE

12/13/01

APPROVED BY

TITLE

AFM

DATE

12/13/01

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.

NAOCD

K

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

District II
PO Drawer 00, 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

070 FARMINGTON, NM AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26518		*Pool Code 72319	*Pool Name Blanco Mesaverde
*Property Code 7452	*Property Name SAN JUAN 27-4 UNIT		*Well Number 155
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 7275'

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
K	24	27N	4W		2225	SOUTH	2450	WEST	RIO ARriba

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 W/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>16</div> <p>5271.42'</p> <p>USA SF-080672</p> <p>5280.00'</p> <p>2450'</p> <p>24</p> <p>LAT: 36°33.5'N LONG: 107°12.2'W</p> <p>2225'</p> <p>5276.70'</p>	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Peggy Cole</i></p> <p>Signature</p> <p>Peggy Cole</p> <p>Printed Name</p> <p>Regulatory Supervisor</p> <p>Title</p> <p>8-17-00</p> <p>Date</p>
	<div>18 SURVEYOR CERTIFICATION</div> <p>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.</p> <p>JULY 14, 2000</p> <p>Date of Survey</p> <p><i>Neale C. Edwards</i></p> <p>Signature and Seal of Professional Surveyor</p> <p>NEALE C. EDWARDS NEW MEXICO 6857</p> <p>Certificate 6857</p>

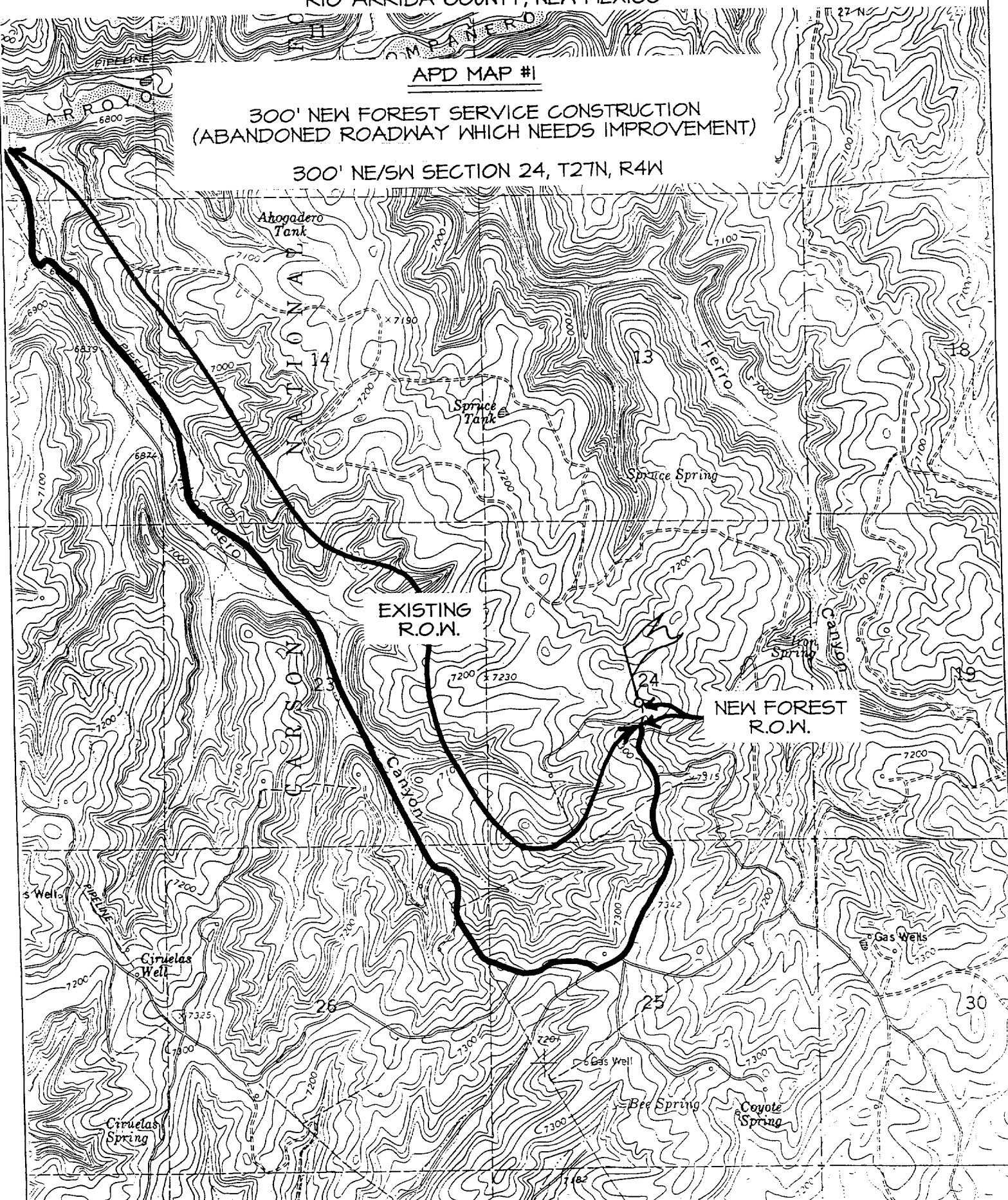
BURLINGTON RESOURCES OIL & GAS COMPANY SAN JUAN 27-4 UNIT #155

2225' FSL & 2450' FWL, SECTION 24, T27N, R4W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO

APD MAP #1

300' NEW FOREST SERVICE CONSTRUCTION
(ABANDONED ROADWAY WHICH NEEDS IMPROVEMENT)

300' NE/SW SECTION 24, T27N, R4W



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

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

2225' FSL, 2450' FWL, Sec. 24, T-27-N, R-4-W, NMPM

5. Lease Number
SF-080672

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

San Juan 27-4 Unit
8. Well Name & Number
San Juan 27-4 U #155
9. API Well No.
30-039-
10. Field and Pool
Blanco Mesaverde
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 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 checked="" type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to alter the submitted casing depths and cement of the subject well.

Revisions:

Mud Program:

Interval	Type	Weight	Fluid Loss
200-4452'	LSND	8.4-9.0	No control
4452-6657'	Air/Mist	n/a	n/a

Casing Program:

Hole Size	Depth Interval	Casing Size	Weight	Grade
8 3/4"	0-4452'	7"	20.0#	J-55
6 1/4"	4352-6657'	4 1/2"	10.5#	J-55

Cementing Program:

7" intermediate casing - lead w/478 sx Class "G" 50/50 TXI Lightweight cement with 2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Celloflake, 0.2% antifoam agent. Tail with 90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.25 pps Celloflake, 0.1% antifoam (1349 cu.ft. of slurry, 100% excess to circulate to surface).

7" intermediate casing alternative two stage: Stage collar at 3656'. First stage: cement with 187 sx Class "G" 50/50 TXI Lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Celloflake, 0.2% antifoam. Second stage: 430 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.25 pps Celloflake, 0.1% antifoam (1349 cu.ft., 100% excess to surface).

4 1/2" production liner - cement with 232 sx Class "G" 50/50 poz w/4.5% gel, 0.25 pps Celloflake, 5 pps Gilsonite, 0.25% fluid loss, 0.35% dispersant, 0.1% antifoam (331 cu.ft., 40% excess to circulate liner top).

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

Signed [Signature] Title Regulatory Supervisor Date 11/15/00

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFM Date 12/13/01

CONDITION OF APPROVAL, if any:

OPERATIONS PLAN

Well Name: San Juan 27-4 Unit #155
Location: 2225' FSL, 2450' FWL, Section 24, T-27-N, R-4-W
Rio Arriba County, New Mexico
Latitude 36° 33.5, Longitude 107° 12.2
Formation: Blanco Mesa Verde
Elevation: 7275' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	3549'	
Ojo Alamo	3549'	3742'	aquifer
Kirtland	3742'	3756'	
Fruitland	3756'	4102'	gas
Pictured Cliffs	4102'	4202'	gas
Lewis	4202'	4617'	gas
Intermediate TD	4302'		
Huerfano Bentonite	4617'	5072'	gas
Chacra	5072'	5888'	gas
Massive Cliff House	5888'	5957'	gas
Menefee	5957'	6257'	gas
Point Lookout	6257'		gas
Total Depth	6657'		

Logging Program:

Mud Logs/Coring/DST -
Mud logs - none
Coring - none
DST - none
Open hole - AIT, CNL-CDL - TD to intermediate casing, CNL - intermediate casing to surface
Cased hole - Gamma Ray, Cement bond - surface to TD

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- 4302'	LSND	8.4-9.0	30-60	no control
4302- 6657'	Air/Mist/N2*	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

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' - 4302'	7"	20.0#	J-55
6 1/4"	4302' - 6657'	4 1/2"	10.5#	J-55

Tubing Program: 0' -6657' 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.

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/407 sx Class "B" w/3% sodium metasilicate, 10# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% gel, 2% calcium chloride, 5# gilsonite/sx, 0.1% antifoam and 0.25# flocele/sx (1294 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 3656'. First stage: cement with 154 sx Class "B" 50/50 poz w/2% gel, 5 pps Gilsonite, 2% calcium chloride, 0.5 pps Cellophane. Second stage: 379 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 10 pps Gilsonite (1294 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 3742'. Two turbolating centralizers at the base of the Ojo Alamo at 3742'. 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 250 sx 50/50 Class "B" Poz w/1/4# flocele/sx, 4% gel, 0.1% retardant, 5# gilsonite/sx, 0.3% fluid loss additive, 0.35% dispersant (353 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

100' min overlap
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):

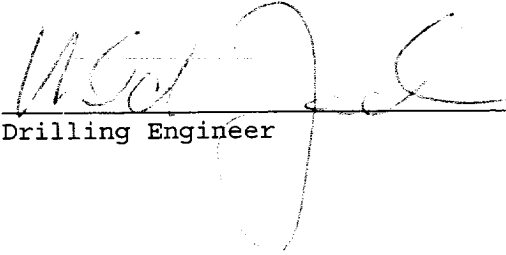
The following equipment will be operational while air/mist drilling:

- 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	300 psi
Pictured Cliffs	600 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 west half of Section 24 is dedicated to the Mesa Verde.
- This gas is dedicated.


Drilling Engineer

11/21/2000
Date