

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0136  
Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM 021126	
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Energen Resources Corporation		7. Unit or CA Agreement Name and No. 91356	
3a. Address 2198 Bloomfield Highway Farmington, NM 87401		8. Lease Name and Well No. Nye Federal 1B	
3b. Phone No. (include area code) 505-325-6800		9. API Well No. 30-045-30871	
4. Location of Well (Report location clearly and in accordance with any State requirements) At surface 1950' FSL, 2190' FEL At proposed prod. zone		10. Field and Pool, or Exploratory Blanco Mesaverde	
14. Distance in miles and direction from nearest town or post office* 5 miles southeast of La Plata, New Mexico		11. Sec., T., R., M., or Bk. and Survey or Area Sec. 20, T31N, R12W, N.M.P.M.	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 1950'		12. County or Parish San Juan	
16. No. of Acres in lease 80		13. State NM	
17. Spacing Unit dedicated to this well 308.79S/2		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1200'	
19. Proposed Depth 5274'		20. BLM BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6096' GL		22. Approximate date work will start* Nov 2001	
23. Estimated duration 10 days			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |                                                                                                                                                 |                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor.                                                                                                | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).   |
| 2. A Drilling Plan                                                                                                                              | 5. Operator certification.                                                                        |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer |

25. Signature <i>Don Graham</i>	Name (Printed/Typed) Don Graham	Date 10/30/01
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Title

Production Superintendent

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date 12/3/01
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Title

AFM

Office

FFO

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

\*(Instructions on Reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

ALL ACTIONS ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form O-113  
Revised February 21, 1994

District II  
PO Drawer 00, Artesia, NM 88211-0719

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

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

2001 NOV -2 PM 4:42

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number <b>30-045-30891</b>	*Pool Code <b>72319</b>	*Pool Name <b>Blanco Mesaverde</b>
*Property Code <b>21356</b>	*Property Name <b>NYE FEDERAL</b>	*Well Number <b>18</b>
*CGRID No. <b>162928</b>	*Operator Name <b>ENERGEN RESOURCES CORPORATION</b>	*Elevation <b>6095'</b>

<sup>10</sup> Surface Location

UL or lot no	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
J	20	31N	12W		1950	SOUTH	2190	EAST	SAN JUAN

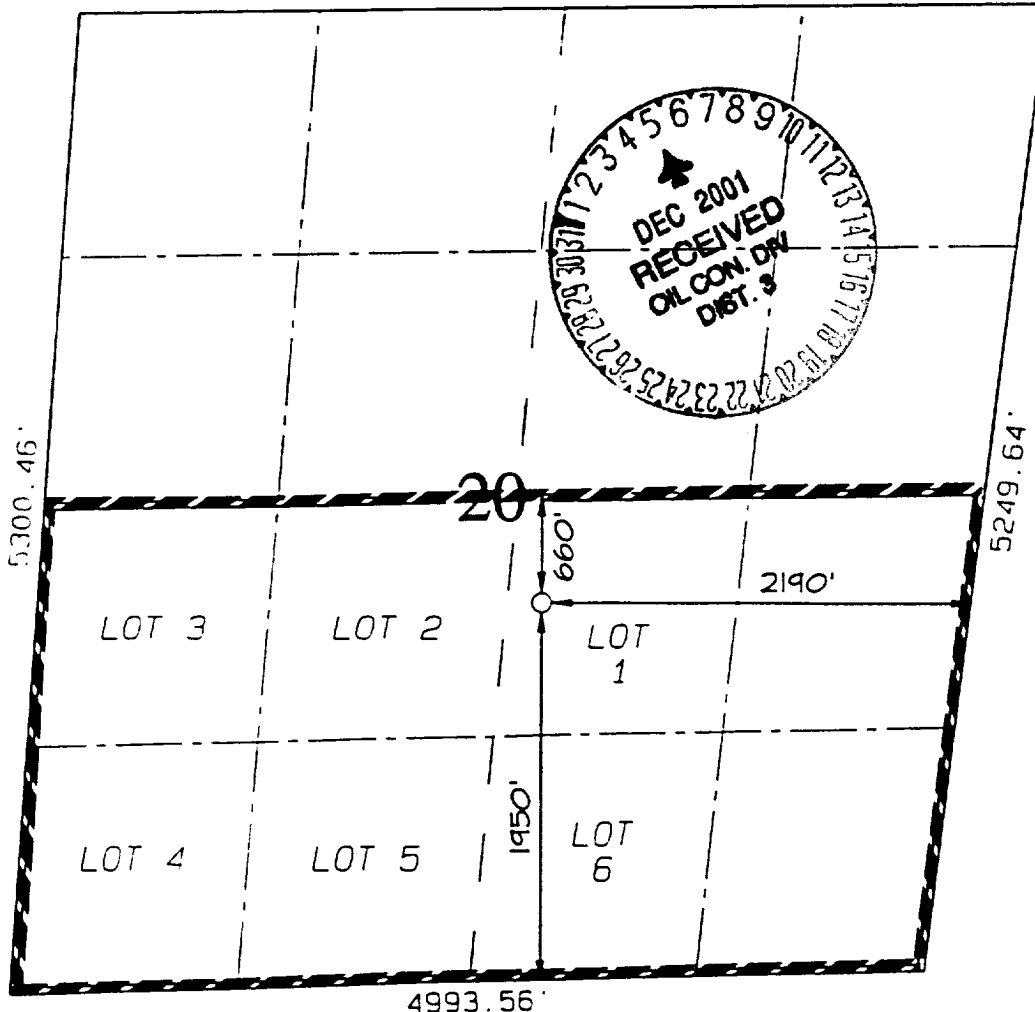
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County

*Dedicated Acres <b>308.79</b>	*Joint or Infill	*Consolidation Code	*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

5276.70'



<sup>17</sup> OPERATOR CERTIFICATION

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

*Don Graham*  
Signature  
Don Graham  
Printed Name  
Production Superintendent  
Title  
**10-30-01**  
Date

<sup>18</sup> 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

Survey Date: OCTOBER 9, 2001

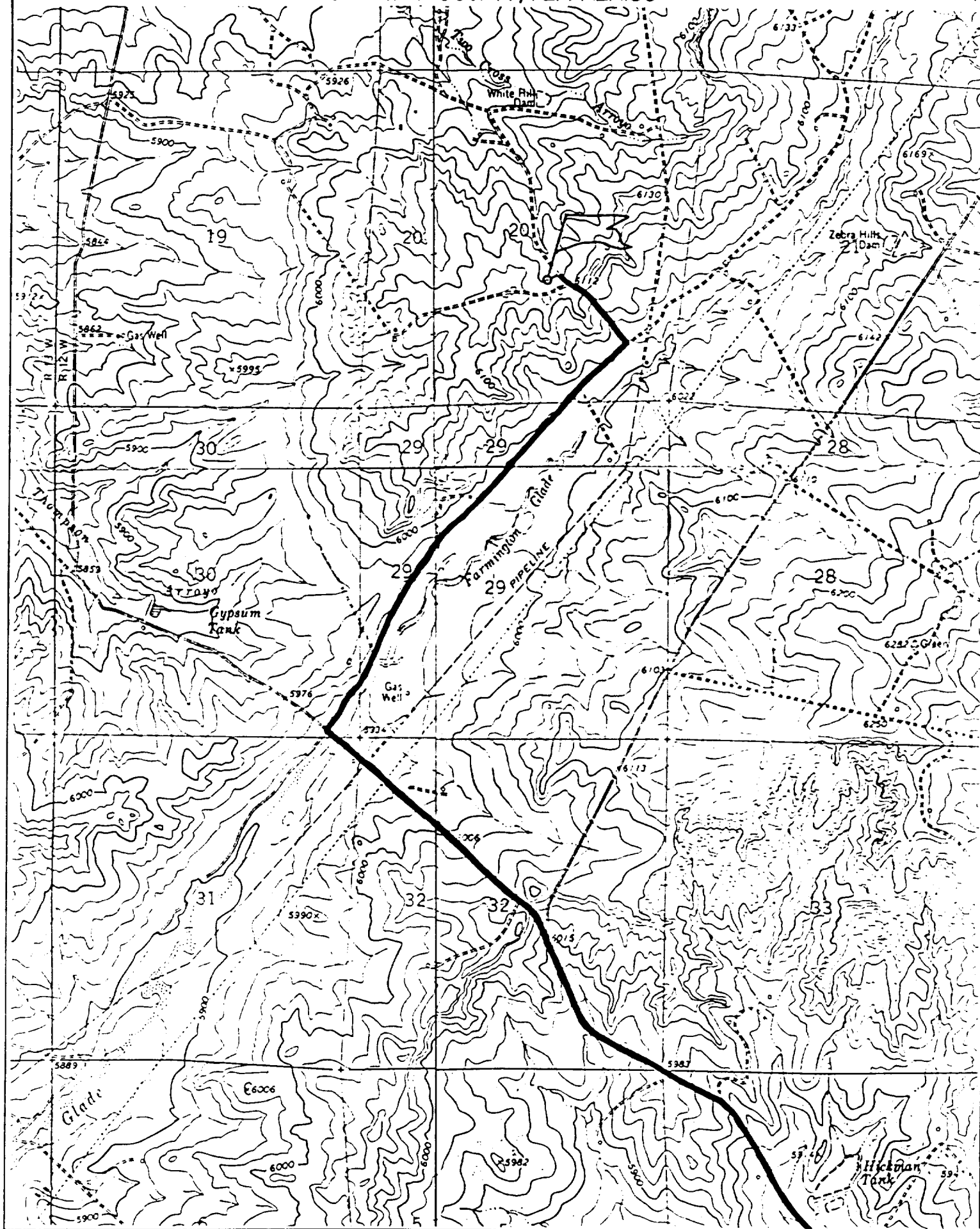
Signature and Seal of Professional Surveyor



*JASON C. EDWARDS*  
Certificate Number 15269

ENERGEN RESOURCES CORPORATION NYE FEDERAL #1B

1855' FSL & 2120' FEL, SECTION 20, T31N, R12W, N.M.P.M.  
SAN JUAN COUNTY, NEW MEXICO



## OPERATIONS PLAN

WELL NAME: Nye Federal #1B

LOCATION: 1950' FSL, 2190' FEL, Section 20, T31N, R12W, Rio Arriba, New Mexico

FIELD: Blanco Mesaverde

ELEVATION: 6096' GL

### FORMATION TOPS:

Surface	San Jose	Cliff House	4016
Ojo Alamo	648	Menefee	4220
Kirtland	758	Point Lookout	4824
Fruitland	2068		
Pictured Cliffs	2393		
Lewis	2738		
Huerfanito Benonite	3198	Total Depth	5274

### LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None

Inter TD to total depth: Temp/HRI/CNT, LDT/GR, MRIL

Mud Logs: None

Coring: None

Natural Gauges: Every 500' from intermediate TD to total depth

MUD PROGRAM: Fresh water low solids mud from surface to intermediate TD. Air/mist from intermediate casing point to total depth.

### CASING PROGRAM:

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CSG SIZE</u>	<u>WT.</u>	<u>GRADE</u>
12-1/4"	200'	9-5/8"	36#	J-55
8-3/4"	2938'	7"	20#	J-55
6-1/4"	2788'-5274'	4-1/2"	10.5#	J-55

### TUBING PROGRAM:

5100'	2 3/8"	4.7#	J-55
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WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 7 1/16" 3000 xmas tree.

### BOP SPECIFICATIONS:

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used.

### CEMENTING:

9 5/8 surface casing - Cement with 110 sks Class B Cement with 1/4" Flocele/sx and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

Texas Pattern Guide Shoe on bottom with centralizers on the first three joints..

7" intermediate casing - cement with 280 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and 1/4# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and 1/4# flocele/sk. (535 cu. Ft. of slurry, 50% excess to circulate to surface). WOC 12 hrs. If cement does not circulate, run temperature survey in 8 hrs. to determine TOC. Test casing to 1200 psi for 30 minutes.

Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 8 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

### 4 1/2 Production Liner

Cement with 305 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1.4# flocele/sk ( 383 cu. ft., 50% excess to circulate liner top). WOC 18 hrs prior to completion.

*100' min overlap.*

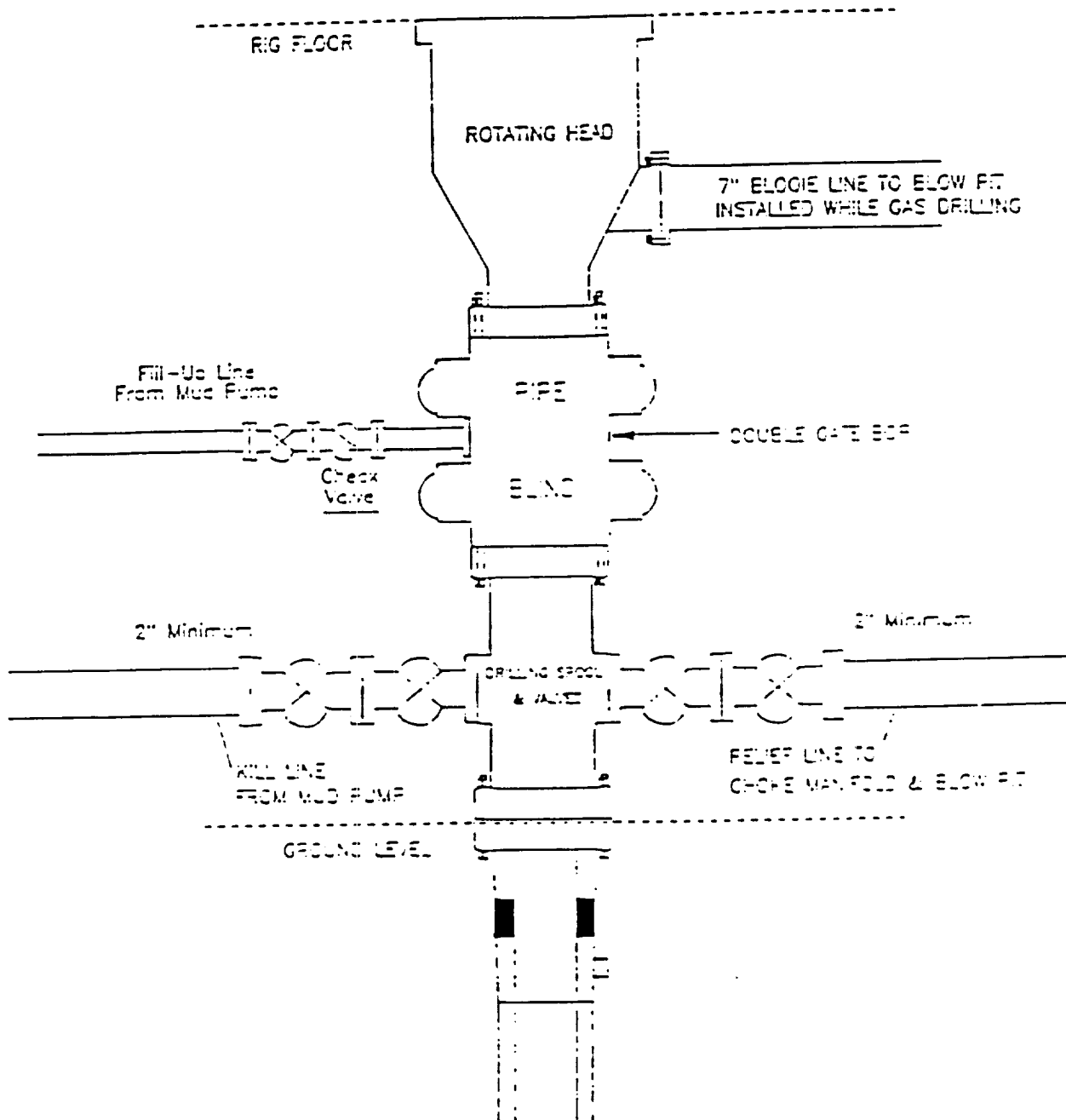
Cement nose guide shoe on bottom with float collar on top of shoe joint. Liner hanger will have a neopreme packoff on top.

### OTHER INFORMATION:

- 1) The Blanco Mesaverde completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Mesa Verde is 700, Pictured Cliffs is 400 and the Fruitland 300 psi.
- 4) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 5) This gas is dedicated.

# ENERGEN RESOURCES CORPORATION

## Mesa Verde / Dakota Well BOP Configuration



Minimum BOP installation for a Mesa Verde well from Surface to Total Depth. 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