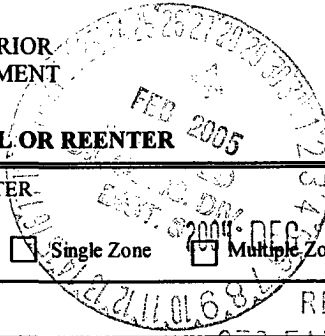


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires March 31, 2007

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 0606 <i>JK 078139</i>	
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator <b>Energex Resources Corporation</b>		7. Unit or CO Agreement Name and No.	
3a. Address <b>2198 Bloomfield Highway Farmington, New Mexico 87401</b>		8. Lease Name and Well No. <b>Federal 30-9-27 #1S</b>	
3b. Phone No. (include area code) <b>(505) 325-6800</b>		9. API Well No. <b>30-045-32763</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface <b>1608' FSL 660' FEL</b> At proposed prod. zone		10. Field and Pool, or Exploratory <b>Basin Fruitland Coal</b>	
14. Distance in miles and direction from nearest town or post office* <b>6 miles east of Blanco, NM</b>		11. Sec., T., R., M., or Blk. and Survey or Area <b>Sec. 27, T30N, R09W NMEM</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) <b>650'</b>	16. No. of Acres in lease <b>2394.72</b>	17. Spacing Unit dedicated to this well <b>320 E 1/2</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>650'</b>	19. Proposed Depth <b>2752'</b>	20. BLM/BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5845'</b>	22. Approximate date work will start* <b>03/05</b>	23. Estimated duration <b>6 days</b>	

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

24. Attachments

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

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

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

25. Signature <i>Doug Thomas</i>	Name (Printed/Typed) <b>Doug Thomas</b>	Date <b>12/03/04</b>
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Title  
**Drilling Superintendent**

Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date <b>2-24-05</b>
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Title <b>AFM</b>	Office <b>FFO</b>
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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 page 2)

NMOCD

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised June 10, 2003  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies  
 AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-045-32763		<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name UP FRUITLAND COAL
<sup>4</sup> Property Code 300455	<sup>5</sup> Property Name FEDERAL 30-9-27		<sup>6</sup> Well Number 1S
<sup>7</sup> OGRID No. 162928	<sup>8</sup> Operator Name ENERGEN RESOURCES CORPORATION		<sup>9</sup> Elevation 5845'

<sup>10</sup> Surface Location

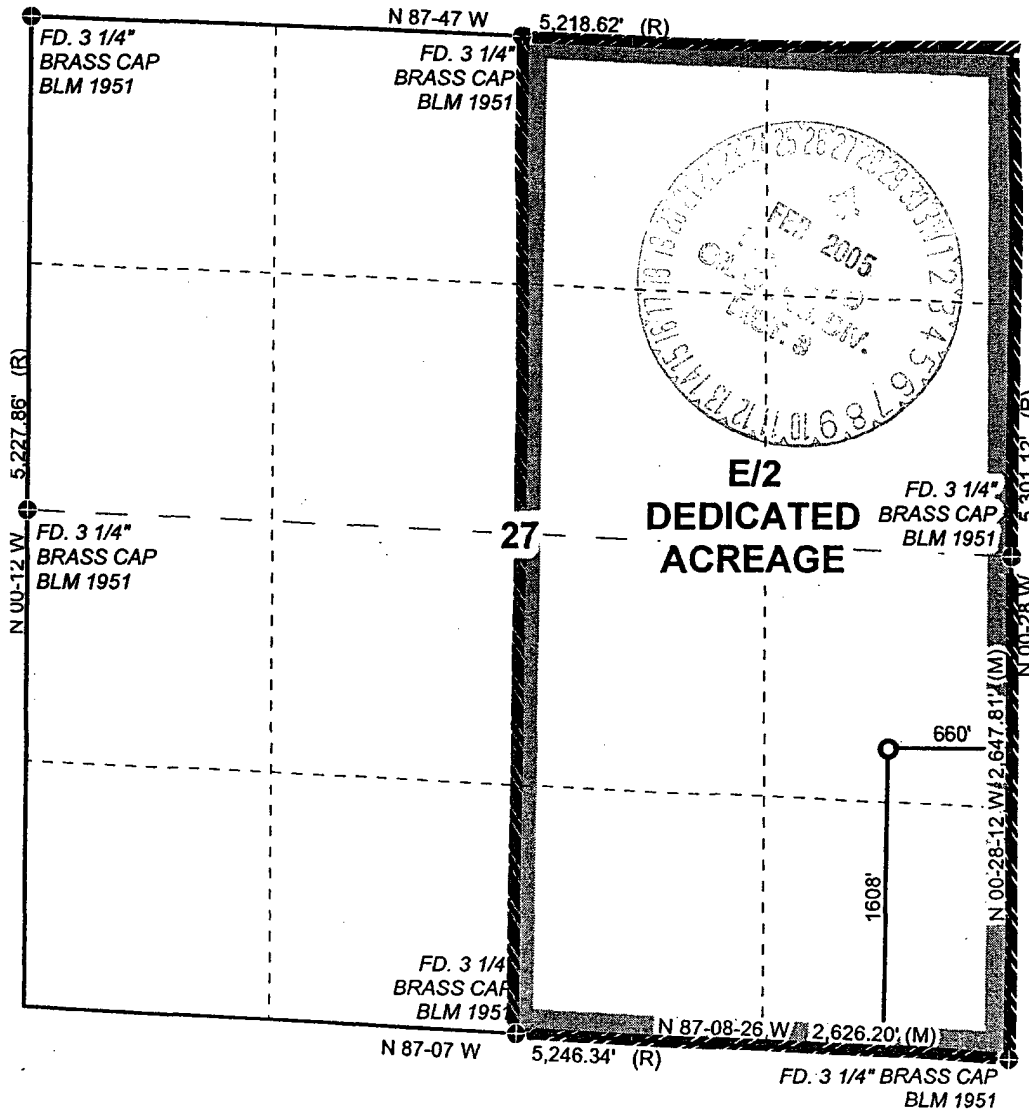
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	77	30N	9W		1608	SOUTH	660	EAST	SAN JUAN

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



<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.

Signature: *Doug Thomas*  
Printed Name: DOUG T THOMAS  
Title and E-mail Address: Drilling Superintendent  
Date: 12/3/04

<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.

Date of Survey: 10/29/04  
Signature and Seal of Professional Surveyor: *R. Howard Daggett*  
NM #9679  
Certificate Number: 9679

REGISTERED PROFESSIONAL LAND SURVEYOR  
HOWARD DAGGETT  
NEW MEXICO

## Operations Plan

December 3, 2004

### Federal 30-9-27 #1S

#### General Information

Location	1608' fnl, 0660' fel S27, T30N, R09W San Juan County, New Mexico
Elevations	5845' GL
Total Depth	2752' (MD)
Formation Objective	Basin Fruitland Coal

#### Formation Tops

Nacimiento	Surface
Ojo Alamo Ss	1412'
Kirtland Sh	1502'
Fruitland Fm	2222'
Top Coal	2352'
Bottom Coal	2552'
Pictured Cliffs Ss	2562'
<b>Total Depth</b>	<b>2752'</b>

#### Drilling

The 12 1/4" wellbore will be drilled with a fresh water mud system.

The 7 7/8" wellbore will be drilled with a low solids fresh water/polymer mud system. Weighting materials will be drill cuttings and if needed barite. Mud density is expected to range from 8.9 ppg to 9.5 ppg.

##### Blowout Control 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 stack. A 2" nominal, 2000 psi minimum choke manifold will also be used. An upper Kelly Cock valve handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

##### Logging Program:

Open hole logs: Surface to TD use Induction/GR and Density logs at TD

Mud logs: Check with Greg Jennings

Coring: None

Natural Gauges: None

## Tubulars

### Casing, Tubing, & Casing Equipment:

String	Interval	Wellbore	Casing	Csg Wt	Grade
Surface	0'-300'	12 1/4"	8 5/8"	24.0 ppf	J-55 ST&C
Production	300'-2752'	7 7/8"	5 1/2"	15.5 ppf	J-55 LT&C
Tubing	0'-2700'		2 3/8"	4.7 ppf	J-55

### Casing Equipment:

Surface Casing: Texas Pattern Guide Shoe on bottom. 4 bow spring centralizers spaced every other joint from bottom.

Production Casing: Cement nose guide shoe with self fill insert float collar on top of bottom joint. 10 bow spring centralizers spaced every 2<sup>nd</sup> joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

## Wellhead

8 5/8" 2000 x 5 1/2" Larkin casing head. 5 1/2" 2000 x 2" tubing head.

## Cementing

Surface Casing: 225 sks Std (class B) with 2.0 % CaCl<sub>2</sub> and 1/4 #/sk Flocele (15.6 ppg, 1.18 ft<sup>3</sup>/sk <sup>246</sup>248 ft<sup>3</sup> of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

Production Casing: Before cementing, circulate hole at least 1 1/2 hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout. Depending on wellbore conditions, cement may consist of 400 sks 65/35 with 6.0 % Bentonite, 2.0 % CaCl<sub>2</sub>, 10 #/sk Gilsonite, and 1/2 #/sk Flocele (12.3 ppg, 1.96 ft<sup>3</sup>/sk) and a tail of 140 sks Standard (Class B) with 5.0 #/sk Gilsonite, 1/4 #/sk Flocele (15.2 ppg, 1.26 ft<sup>3</sup>/sk). <sup>960</sup>(953.8 ft<sup>3</sup> of slurry, 100 % excess to circulate to surface).

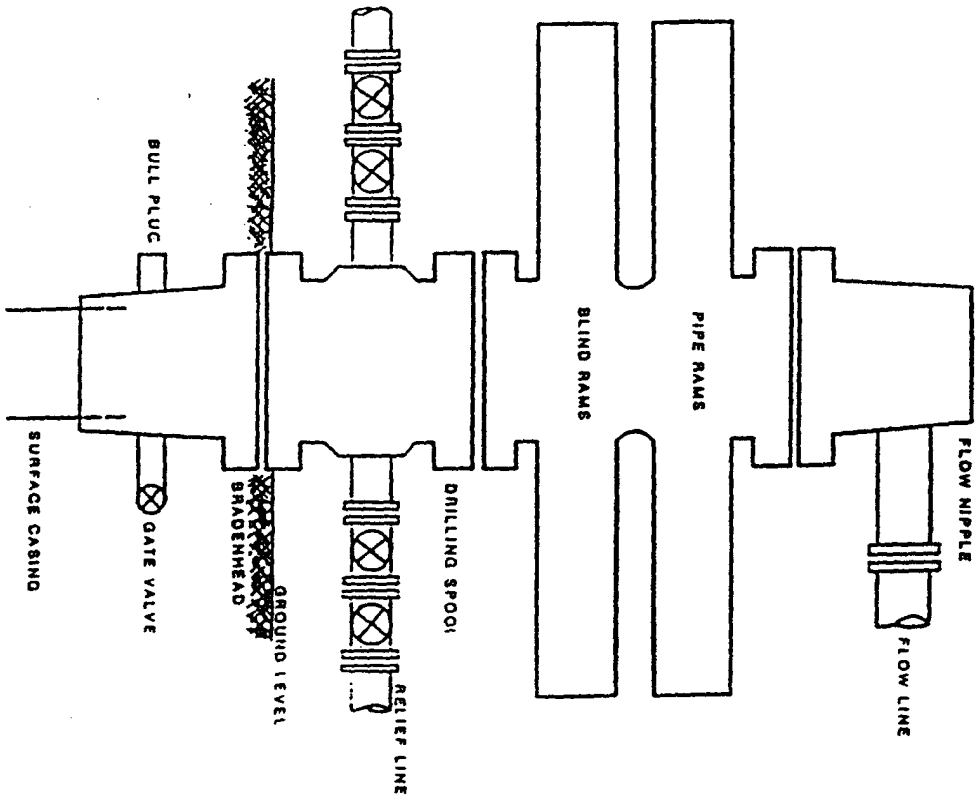
**Pump 30 bbls of Flyash spacer/scavenger, consisting of: San Juan Poz, 15.0 % Bentonite, and 0.15 % HR-5 ahead of lead cement.**

## Other Information

- 1) This well will be fracture stimulated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The production string may need to be cemented in multiple stages with a slurry design deviated from that listed above.
- 3) If high reservoir pressures or water flows are encountered slurry design may need to be deviated to from those listed above to satisfy wellbore and formation conditions.
- 4) No abnormal temperatures or pressures are anticipated.
- 5) This gas is dedicated.

# Figure #1

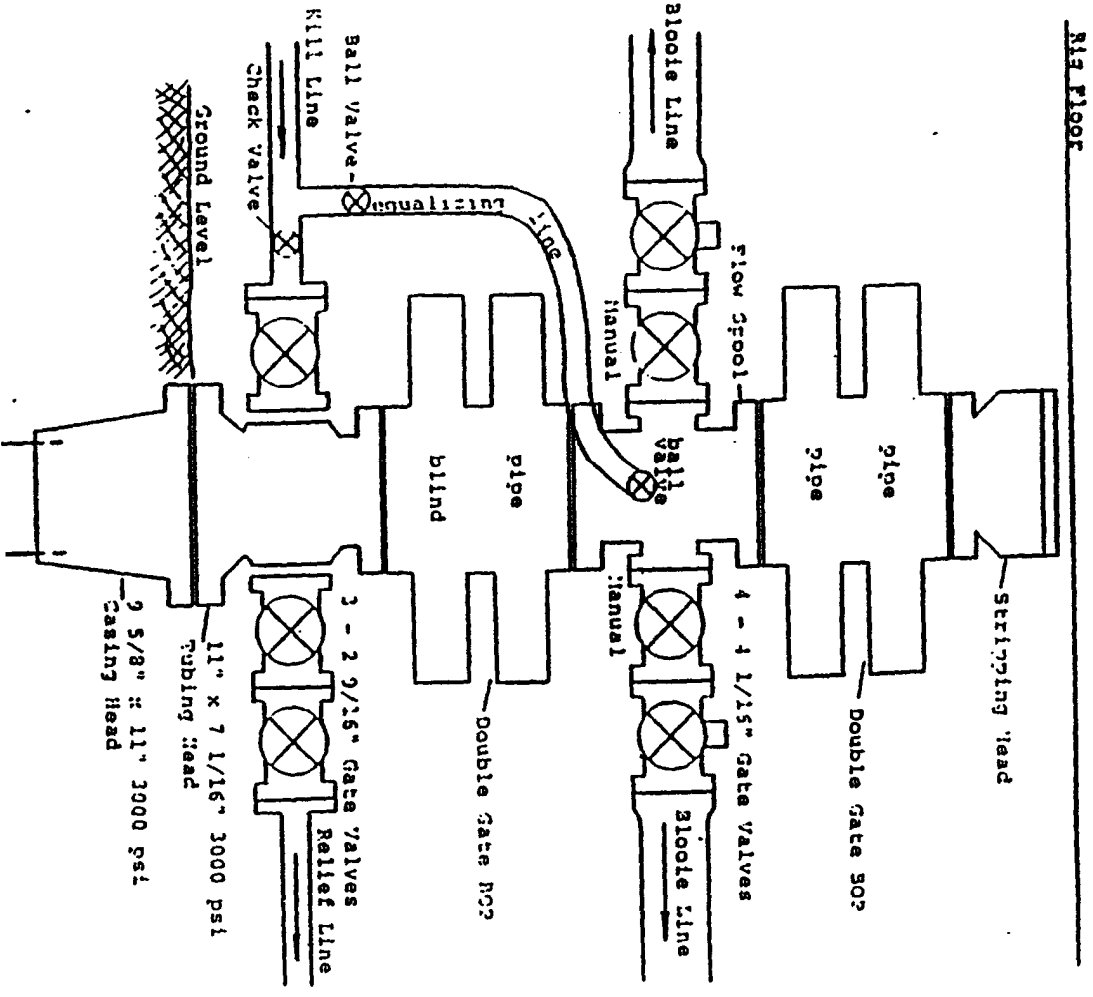
TYPICAL B.O.P.E. INSTALLATION  
FOR A FRUITLAND COAL WELL  
(to intermediate TD)



Series 900 double Gate BOP  
Rated at 3000 psi working pressure

# Figure #2

FRUITLAND COAL WELL  
TYPICAL BOP CONFIGURATION  
BOP STACK  
7 1/16" 3000 psi (minimum) BOP STACK  
(From Intermediate to total depth)

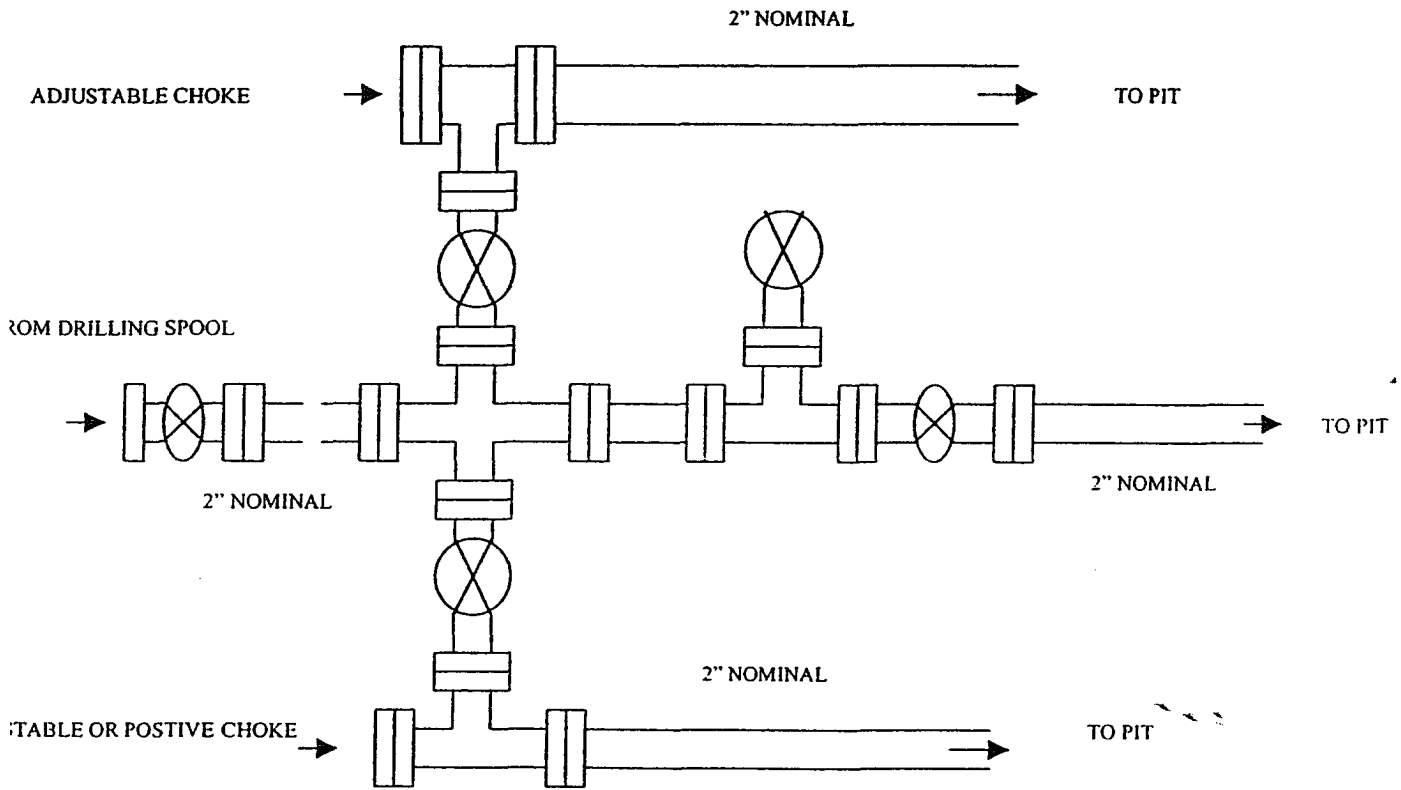


9 5/8" x 11" 3000 psi  
Casing Head

11" x 7 1/16" 3000 psi  
Tubing Head

# ENERGEN RESOURCES CORPORATION

## Choke Manifold Configuration 2M psi System



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

