

Form 3160-3  
(September 2001)

FORM APPROVED  
OMB NO. 1004-0136  
Expires: January 31, 2004

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.  SF-078643
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 type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator  Pogo Producing		7. If Unit or CA Agreement, Name and No.
3a. 300 N. Marienfeld, Suite 600 Midland, TX 79701		8. Lease Name and Well No. Northridge #3T
3b. Phone No. (include area code) (432) 685-8143		9. API Well No. 30-045-34117
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 2000' FNL & 980' FWL At proposed prod. zone		10. Field and Pool, or Exploratory Basin Fruitland Coal
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Within Farmington City Limits north of 30th street between Crestridge and Butler		11. Sec., T., R., M., or Blk. And Survey or Area E, Sec 3, T-29-N, R13W
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg unit line, if any) 125'	16. No. of Acres in lease 560.77	17. Spacing Unit dedicated to this well 321.08 N/2 320 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 200'	19. Proposed Depth 1700'	20. BLM/ BIA Bond No. on file NM 2125
21. Elevations (Show whether DF, RT, GR, etc.) 5535'	22. Approximate date work will start* 15-Feb-07	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 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>Brad Saltzman</i>	Name (Printed/ Typed) Brad Saltzman	Date 11-21-06
Title		

Approved By (Signature) <i>Jim Lovato</i>	Name (Printed/ Typed)	Date 3/15/07
Title Acting ADAM Minerals	Office	

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 co 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) Submit application for pit permit to NMOC prior to constructing location

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

NMOC

3/22/07

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



DISTRICT I  
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II  
811 South First, Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. 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

2003 DEC 19 10 11 00

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-34117	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Fruitland Coal
<sup>4</sup> Property Code 300781	<sup>5</sup> Property Name NORTHIDGE	<sup>6</sup> Well Number 3T
<sup>7</sup> GRID No. 17891	<sup>8</sup> Operator Name POGO PRODUCING COMPANY	<sup>9</sup> Elevation 5535

<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
E	3	29 N	13 W		2000	NORTH	980	WEST	SAN JUAN

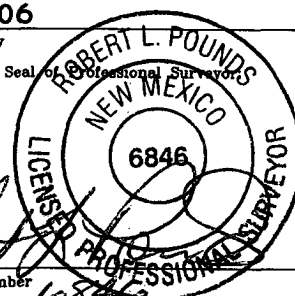
<sup>11</sup> Bottom Hole Location If Different From Surface

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>N</sup> / <sub>2</sub>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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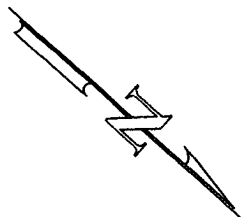
RCUD MAR 19 07  
OIL CONS. DIV.  
DIST. 3

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

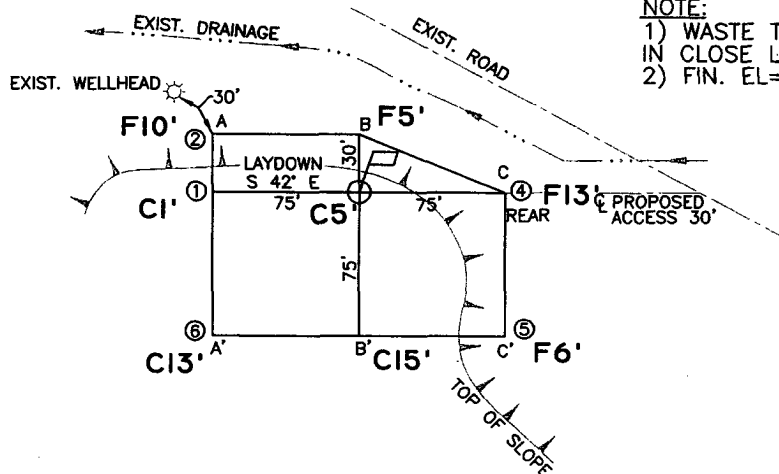
16 S 88°57'47" E 5260' 2000' 980' LAT. N 36.757181° LONG. W 108.198733° NAD 83 SECTION 3	5253.52'	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature <u>SM LIBBY</u> Printed Name <u>Consultant</u> Title <u>10-31-06</u> 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.  9/18/06 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number <u>6846</u>	
N 0°39' E N 88°57'47" W	5253.52'		



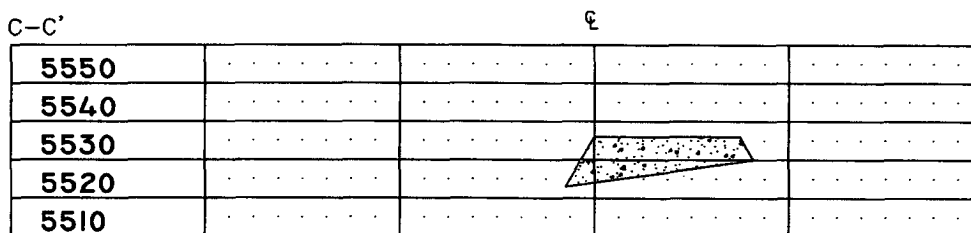
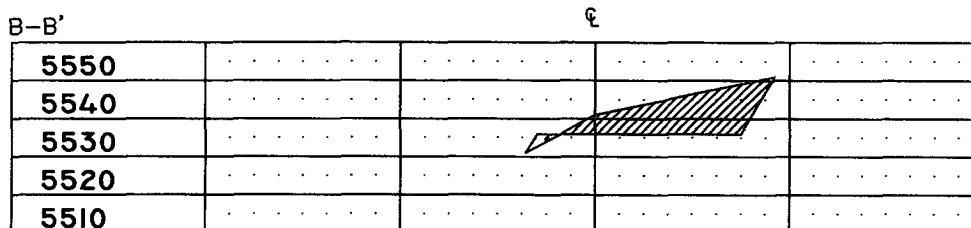
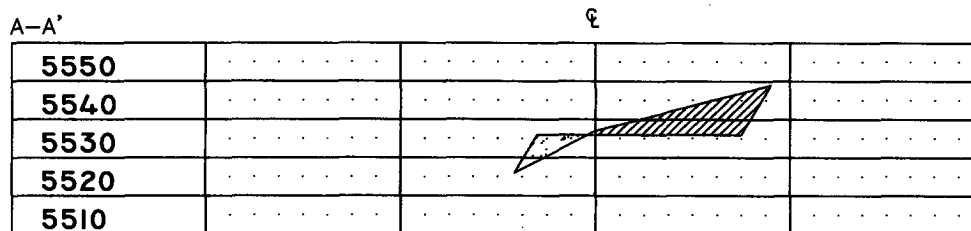
NOTIFY  
NEW MEXICO ONE-CALL  
BEFORE COMMENCING  
EXCAVATION!  
(800) 321-2537



0 50 100  
SCALE: 1"=100'



NOTE:  
1) WASTE TO BE CONTAINED  
IN CLOSE LOOPED SYSTEM.  
2) FIN. EL=5530'



CROSS SECTIONS  
HORIZONTAL: 1"=100'  
VERTICAL: 1"=10'

LEASE: NORTHRIDGE 3T  
FOOTAGE: 2000' FNL, 980' FWL  
SEC. 3 TWN. 29 N RNG. 13 W N.M.P.M.  
LATITUDE: N 36.757181° LONGITUDE: W 108.198733°  
ELEVATION: 5535

POGO PRODUCING COMPANY  
FARMINGTON, NEW MEXICO

SURVEYED: 9/18/06	REV. DATE:	APP. BY R.P.
DRAWN BY: A.D.	DATE DRAWN: 10/09/06	FILE NAME: 6907C01

UNITED  
FIELD SERVICES INC.  
P.O. BOX 3651  
FARMINGTON, NM 87499  
OFFICE: (505) 334-0408



## TEN-POINT PROGRAM/ OPERATIONS PLAN POGO PRODUCING COMPANY

**Well name:** Northridge #3T  
**Location:** 2000' FNL & 980' FWL, E-Sec. 3, T-29-N, R-13-W, NMPM  
San Juan County, NM  
**Formation:** Fruitland Coal

1. The geological surface formation is: Ojo Alamo Sandstone
2. The tops of important geological markers: (based on existing log information)

Kirtland Shale	200'
Fruitland FM	1064'
Basal Fruitland Coal	1350'
Pictured Cliffs	1409'
TD	1700'

3. Estimated depths of anticipated water, oil, gas, or minerals:

<u>Substance</u>	<u>Formation</u>	<u>Anticipated Depth</u>
Gas	Fruitland Coal	1500 +/-

#### 4. The Casing Program:

<u>Depth</u>	<u>Hole Size</u>	<u>Casing O.D.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Type</u>	<u>New/Used</u>
0-390'	8 3/4"	7"	20#	J-55	ST&C	New
390'-1700'	6 1/4"	4-1/2"	10.5#	J-55	ST&C	New

Proposed Cement Program: To effectively isolate and seal off all water, oil, gas and coal bearing strata encountered by the utilization of spacer and centralizers at the base of the Ojo Alamo formation as specified by NTL-FRA 90-1 III.B and API standards; and by using cement volumes as follows: (Exact volumes to be determined from logs):

Surface: 100 sx Type 5 w/ 0.25 pps celloflake and 2 % CaCl @ 15.6 ppg x 1.18 cu.ft. /sx  
Final volumes will be calculated using 100% excess.

Production: 80 sx Type 5 with 2% metasilicate and 0.25 pps celloflake @ 12.5 ppg x 2.06 cu.ft./sx lead. 70 sx Type 5 with 0.25 pps celloflake and 2% CaCl @ 15.6 ppg x 1.18 cu.ft. /sx tail. Final volumes will be determined using 35% excess and tail will provide 500' cover over basal coal.

#### 5. Operators Minimum Specifications for pressure control:

Expected bottom hole pressure 250 psi or less.

Attached is a schematic of the blowout preventer commonly in Fruitland Coal development. The BOP will be a double ram type with flanged connections. The BOP will be tested to a minimum of 750 psi.



13

**TEN-POINT PROGRAM  
POGO PRODUCING COMPANY**

**Well name:** Northridge #3T  
**Location:** 2000' FNL & 980' FWL, E-Sec. 3, T-29-N, R-13-W, NMPM  
San Juan County, NM  
**Formation:** Basin Fruitland Coal

**6. The type and characteristic of the proposed circulating muds:**

Surface Casing: Spud flocculating bentonite with lime.

Production Casing: Low solids non- disbursing system.

Interval	Mud Weight	Viscosity	Fluid Loss	Ph	Additives
0-390'	9.0	45	-----	9	Gel, Lime
390'-TD	8.6 - 9.2	30-50	<15cc	9	Additives as needed to Maintain viscosity

**7. Auxiliary Equipment to be used is as follows:**

- a. Float valve above bit.
- b. Monitoring of mud system will be visual.
- c. A safety valve and subs to fit all drill strings will be used.

**8. Testing, logging and coring will be as follows:**

- a. Cores: None
- b. Drill stem tests: none anticipated.
- c. Logs will include: High Resolution Induction w/ Gamma Ray, SP, Caliper, Microlog, Spectral Density and Dual Spaced Neutron Microlog; all from Total depth to the surface casing shoe.

**9. Anticipated Abnormal Pressures and temperatures:**

No abnormal pressures, temperatures, or Hydrogen Sulfide gases are anticipated during the completion of this well.

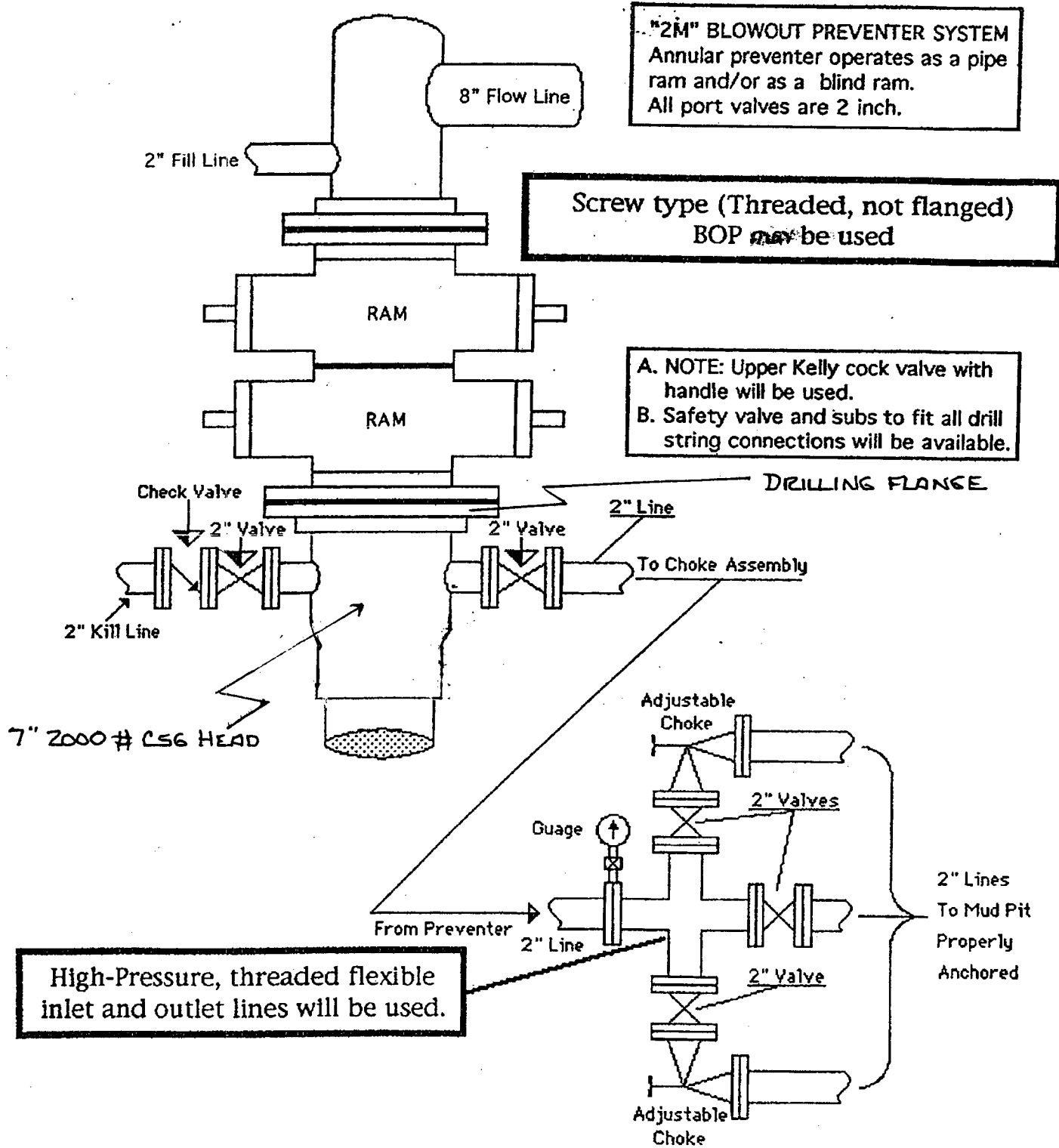
**10. Anticipated starting date and duration of operations:**

The anticipated starting date is February 15, 2007. The drilling operations should be completed within 10 days after rig-up date. Completion will be done as equipment availability and weather permit.

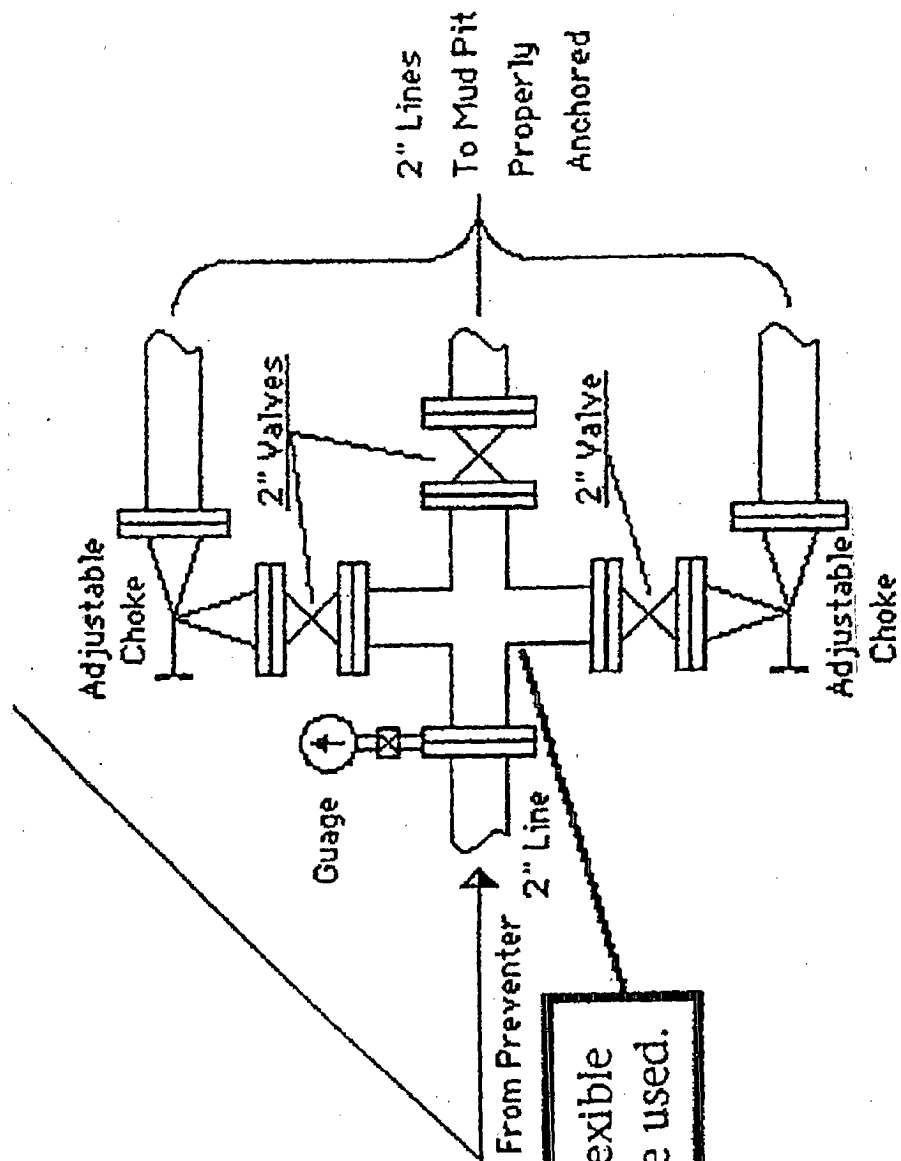
Date: 1-21-06 Drilling Engineer: BH Salzman



## "2M" BLOWOUT PREVENTER SYSTEM







High-Pressure, threaded flexible inlet and outlet lines will be used.