

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Sonat Exploration Company-Midland

109487

3. ADDRESS AND TELEPHONE NO.

110 W. Louisiana, Suite 500, Midland, TX 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1980' FNL & 1980' FWL of Section 8 WILDCAT

At proposed prod. zone

same

UNIT F

Cotton Draw, Bone Springs, SW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

25 miles east of Loving, N.M.

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

1980'

16. NO. OF ACRES IN LEASE

1400+

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

1320'

19. PROPOSED DEPTH

8500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3497' GR

22. APPROX. DATE WORK WILL START\*

1999

23. SECRETARY'S POTENTIAL

PROPOSED CASING AND

CARLSBAD CONTROLLED WATER BASIN

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	11 3/4" WC-40	42#	600'	sufficient
11"	8 5/8" J-55	32 #	4300'	sufficient to c
7 7/8"	5 1/2" J-55	17# & 15.5#	8500'	2150 sx

The Operator proposes to drill to a depth sufficient to test the Delaware and Bone Springs for oil. Specific programs are outlined in the following attachments:

Drilling Program

Surface Use and Operating Plan

Exhibit A - road map

Exhibit B - existing well map

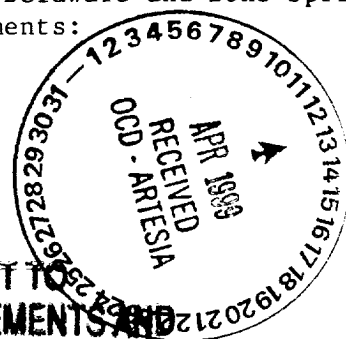
Exhibit C - location and dedication plat

Exhibit C-1 - topo map

Exhibit D - drilling rig layout

Exhibit E - 3M BOP equipment

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED



Post 70-1  
4-16-99  
APR 4 1999

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Regulatory Agent DATE 2-24-99

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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:

APPROVED BY B/Richard A. Whitley TITLE Assoc STATE Dir DATE 4-9-99

\*See Instructions On Reverse Side



District I  
PO Box 1988, Hobbs, NM 88241-1988  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1008 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 10, 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		* Pool Code		* Pool Name Wildcat (Delaware/B.S.)	
* Property Code		* Property Name Lotos Federal			* Well Number 803
* OGRID No.		* Operator Name Sonat Exploration Co.-Midland			* Elevation 3497 GR

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
F	8	24S	31E		1980	North	1980	West	Eddy

11 Bottom Hole Location If Different From Surface

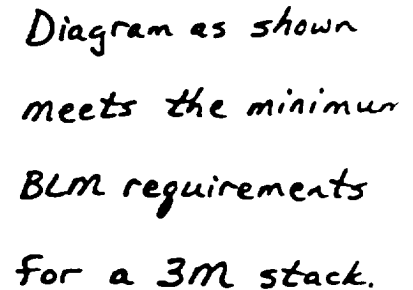
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedication - 1 Acre	13 Joint or Infill	14 Consolidation Code	15 Order No.
40			

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		<p>Exhibit C</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Ann E. Ritchie</i></p> <p>Signature</p> <p>Ann E. Ritchie</p> <p>Printed Name</p> <p>Regulatory Agent</p> <p>Title</p> <p>2-24-99</p> <p>Date</p>

## Minimum Requirements for a 3,000 psi BOP Stack Manifold & Closing System



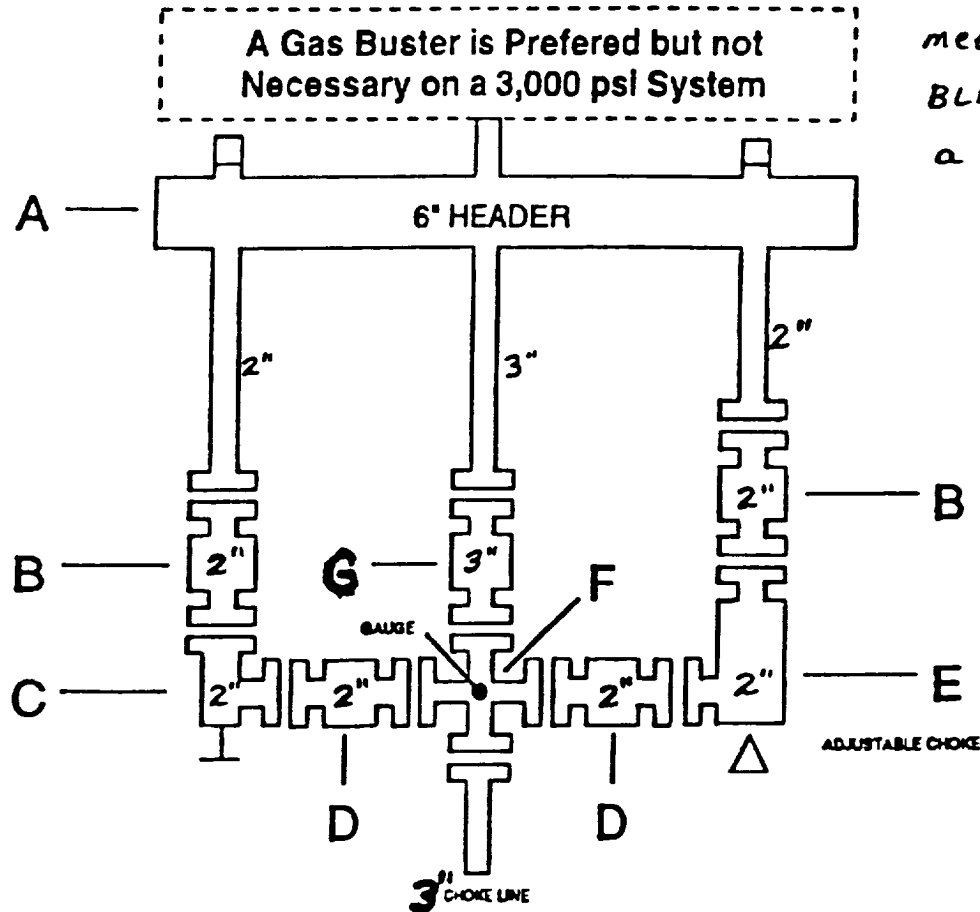
- A. Annular BOP Must be 3000 psi Working Pressure.
  - B. Blind Rams Between Annular & Pipe Rams w/ 3000 psi Working Pressure.
  - C. Pipe Rams Below Blind Rams w/ 3000 psi Working Pressure.
- Note: All Rams & Spools Must Meet Required I.D. for Hole Size.
- D. Drilling Spool w/ 2 Outlets for Choke Line & Kill Line
  - E. Kill Line 2" 3 M w/ 2 Manual Valves Bolted & Flanged Below Bottom Pipe Rams. Either a Drilling Spool or the Outlet on the BOP Stack can be Used to Accommodate Kill Line and Choke Line.
  - F. Choke Line w/ 3" 3 M Valves. Inside Valve can be Manual but the Outside Valve Must be Hydraulic (HCR). Choke Line Must be 3" 3 M.
  - G. Closing Unit (Kooamey) w/ a Primary & Secondary Pressure Supply to Operate the BOP Stack. Also a N<sub>2</sub> Supply will be Provided as a Final Source of Operation to Close the BOP Stack. This Unit is Required to Contain a minimum of 1 1/2 Times the Needed Volume to Operate the BOP Stack at All Times. The Precharge of N<sub>2</sub> will be Checked Prior to Commencing Work for SONAT.

**SONAT EXPLORATION****West ██████████ TEXAS BUSINESS UNIT**

Minimum Requirements for a  
3,000 psi BOP Stack Manifold

A Gas Buster is Preferred but not  
Necessary on a 3,000 psi System

Diagram as shown  
meets the minimum  
BLM requirements +  
a 3m stack.



- A. Header for Gas Expansion 6" O.D. Tube.
- B. 2" 3 M Manual Valves on Down Stream Side of Choke.
- C. 2" 3 M Manual Adjustable or Positive Choke.
- D. 2" 3 M Manual Valve
- E. 2" 3 M Adjustable w/ Remote Station
- F. 3" 3 M Tee w/ Gauge in Top Side 3" Choke Line

Note: All Pipe Will be Flanged & Welded. No Screwed Connections.

G. 3" 3m Manual Valve