

N. M. Oil Cons. Division
811 S. 1ST ST.
ARTESIA, NM 88210-2834
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTSUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

109487

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Sonat Exploration Co - Midland

3. ADDRESS AND TELEPHONE NO.

110 W. Louisiana Ste 500, Midland TX 79701

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

At surface

1830' FSL & 660' FEL

At proposed prod. zone

Unit I

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

25 miles east of Loving, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

660'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

3 1420'

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

3461' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	11 3/4" WC40	42 #	670	50 WITNESS
11"	8 5/8" J55	24 #/32 #	4300	1350 5x WITNESS
7 7/8"	5 1/2" J55	15.5 + 17 #	8200	3200 5x WITNESS

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

Drilling Program
Surface Use & Operating Plan
Exhibit A - Vicinity Map
Exhibit B - Existing Wells
Exhibit C - Wellhead/Acreage
Exhibit D - Topographic Map
Exhibit E - Flowline
Exhibit F - Right of Way
Exhibit G - BOPE

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONSATTACHED
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

Laura Clepper

TITLE

Engineering Technician

DATE

3/6/98

(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

Richard A. Whittle

TITLE

For

STATE DIRECTOR

DATE

APR 17 1998

*See Instructions On Reverse Side

DISTRICT I
P.O. Box 1880, Hobbs, NM 88241-1880

State of New Mexico
Energy, Minerals and Natural Resources Depart

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

EXHIBIT C

OIL CONSERVATION DIVISION

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-30227	Pool Code 96650	Pool Name WC Cotton Draw; Bone Spring, SW
Property Code	Property Name LOTOS FEDERAL	Well Number 5
OGRID No.	Operator Name SONAT EXPLORATION COMPANY	Elevation 3461

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	9	24 S	31 E		1830	SOUTH	660	EAST	EDDY

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
Dedicated Acres 40	Joint or Infill	Consolidation Code	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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Laura Clepper</i> Signature Laura Clepper Printed Name Engineering Technician Title 3/6/98 Date
	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. JANUARY 30, 1998 Date Surveyed ROMAY J. EIDSON Signature & Seal of Professional Surveyor DMCC 2-04-98 Date ROMAY J. EIDSON Certified Professional Surveyor 676 No. of Copies 3239 IDSON 12641

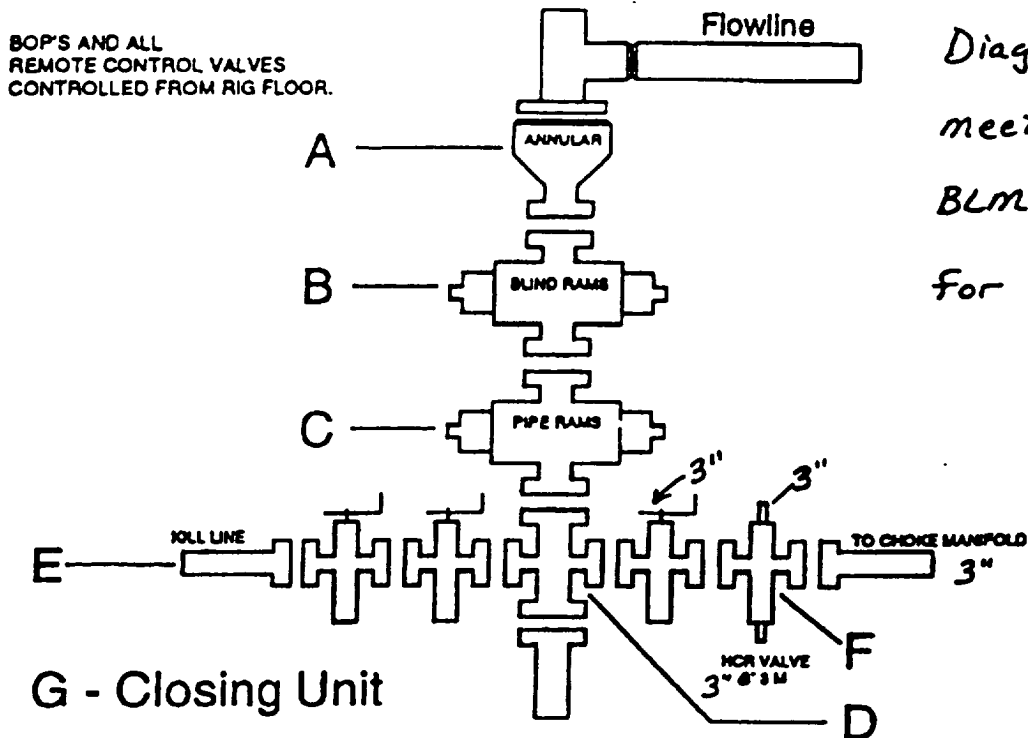
EXHIBIT E

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SONAT EXPLORATION

West ~~SONAT~~ TEXAS BUSINESS UNIT

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



*Diagram as shown
meets the minim
BLM requirement
for a 3M stack*

- 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 (Koomey) w/ a Primary & Secondary Pressure Supply to Operate the BOP Stack. Also a N₂ 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 N₂ will be Checked Prior to Commencing Work for SONAT.

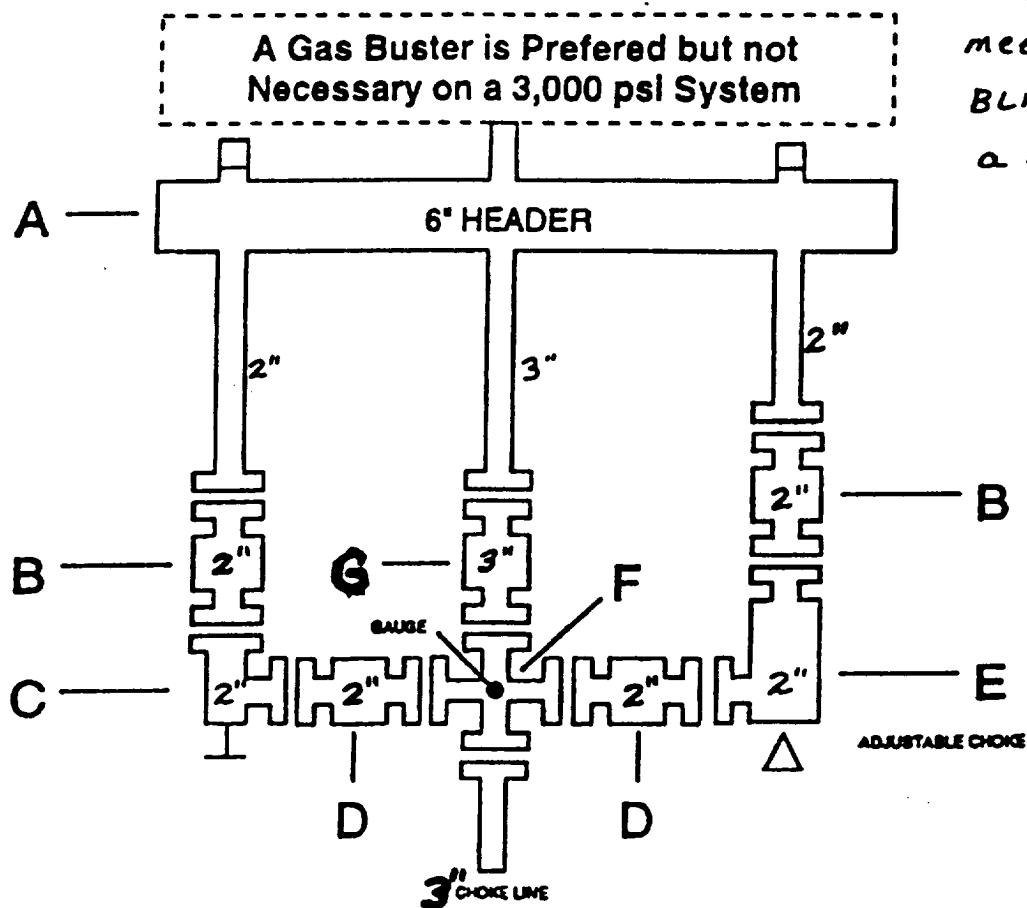
EXHIBIT E

PAGE 2 OF 2

SONAT EXPLORATION

West ~~XXXXXXXXXX~~ TEXAS BUSINESS UNIT

Minimum Requirements for a
3,000 psi BOP Stack Manifold



- 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.

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G. 3" 3m Manual Valve

UNITED STATES N.M. Oil Division
DEPARTMENT OF THE INTERIOR 11 S. 1st St. at
BUREAU OF LAND MANAGEMENT Alameda, NM 88210-2834

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

NM 29234

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

SONAT EXPLORATION CO. - MIDLAND

3. Address and Telephone No

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1830' FSL 660' FEL
Section 9 T24S R31E

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Lotos Federal #5

9. API Well No.

10. Field and Pool, or Exploratory Area

Delaware/Bone Spring

11. County or Parish, State

Eddy County
New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☒ Altering Casing
☐ Other
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

We propose the following casing design:

11 3/4" W40 42# set @ 670' w/500sx
8 5/8" J55 24# set 0-2300' } 1350sx
8 5/8" J55 32# set 2300-4300'
5 1/2" J55 15.5417# set 8700' 3200sx

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

915/684-0433

Signed Shura Clepper

Title Engr. Tech.

Date 4-8-98

(This space for Federal or State Office use)

Approved by (ORIG. SGD.) GARY GOURLEY

Title PETROLEUM ENGINEER

Date APR 09 1998

Conditions of approval, if any:

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 representations or to any matter within its jurisdiction.

*See instruction on Reverse Side