

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

438

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 1980' FNL 1650 FEL

At proposed prod. zone

Unit G

potash

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

25 miles east of Loving, New Mexico

15. DISTANCE FROM PROPOSED*

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

1650

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1150

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

3446 GL

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	WITNESS Post IP-1
* 11	8 5/8 J55	24 #	4300	WITNESS SX 5-8-98
7 7/8	5 1/2 J55	17 & 15.5 #	8700	3200 SX APF4 loc

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 Map

Exhibit C: Well Location & Acreage Dedication Plat

Exhibit C1: Topographic Map

Exhibit D: Drilling Rig Layout Diagram

Exhibit E: BOP Equipment - 3M

Archaeological Survey Specification

*Amended Casing Design
Approved per Sundry Notice
04-08-98

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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

3/5/98

(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 (ORIG. SGD.) M. J. CHÁVEZ

STATE DIRECTOR

DATE APR 17 1998

*See Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Division
811 S. 1st Street
Albuquerque, NM 87102-2834

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

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)

1 O'FNL 1650' FEL Section 9, T24S, R31E

5. Lease Designation and Serial No.

NM-63759.7

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Lotos "C" Federal 905

9. API Well No.

10. Field and Pool, or Exploratory Area

Withee, Delaware/Bone Springs

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.)*

11 3/4" WC40 42# set @ 670' w/550sx
8 5/8" J55 24# set 0-2300' } 1350sx
8 5/8" J55 32# set 2300-4300'
5 1/2" J55 17 1/2 15.5# set 8700' 3200sx

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

Signed

Shard Clapper

Title

Engr. Technician

Date

4-8-98

(This space for Federal or State office use)

Approved by

(CPIG, SGD)

GARY GOURLEY

Title

Date

APR 10 1998

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

EXHIBIT C

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015- 30228	96650	Cotton Draw; Bone Spring, SW
Property Code	Property Name	Well Number
	LOTOS "C" FEDERAL	905
OGRID No.	Operator Name	Elevation
	SONAT EXPLORATION COMPANY	3446

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	9	24 S	31 E		1980	NORTH	1650	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	Joint or Infill	Consolidation Code	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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Laura Clepper</u> Signature <u>Laura Clepper</u> Printed Name <u>Engineering Technician</u> Title <u>3/5/98</u> 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. DECEMBER 30, 1997 Date Surveyed Signature and Seal of Professional Surveyor <u>Donald J. Edson</u> Professional Surveyor NEW MEXICO 3239 12-31-97 94-11-2094 Certificate No. 3239 JAMES W. EIDSON 676 3239 12641

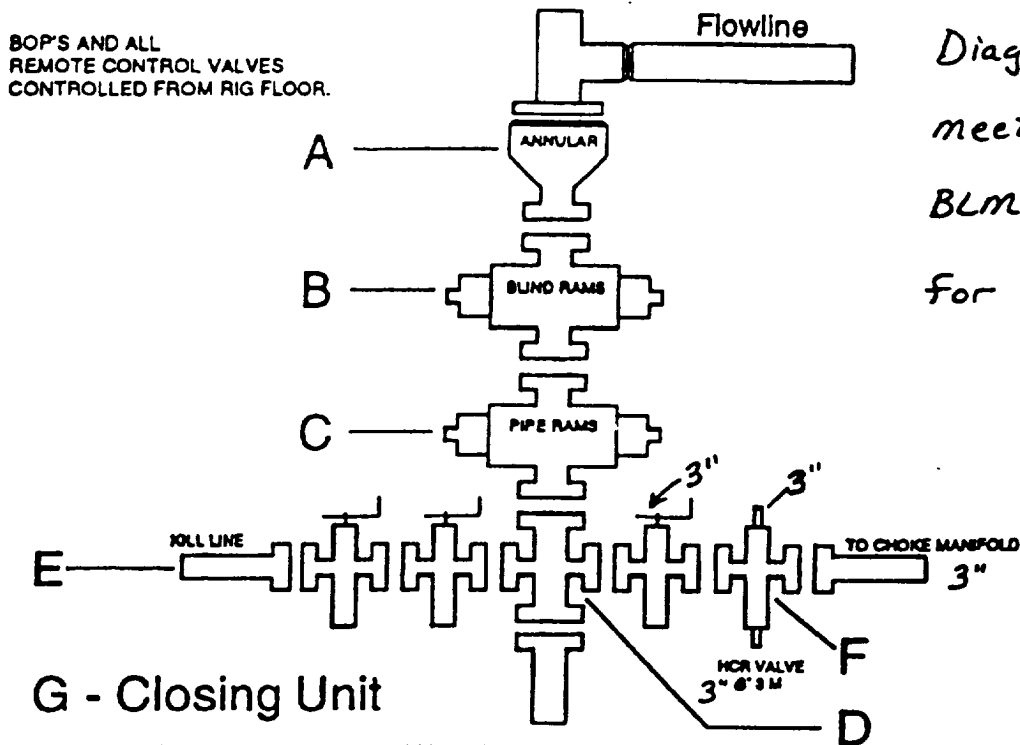
EXHIBIT E

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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 minimum
BLM requirements
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 (Kookey) 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

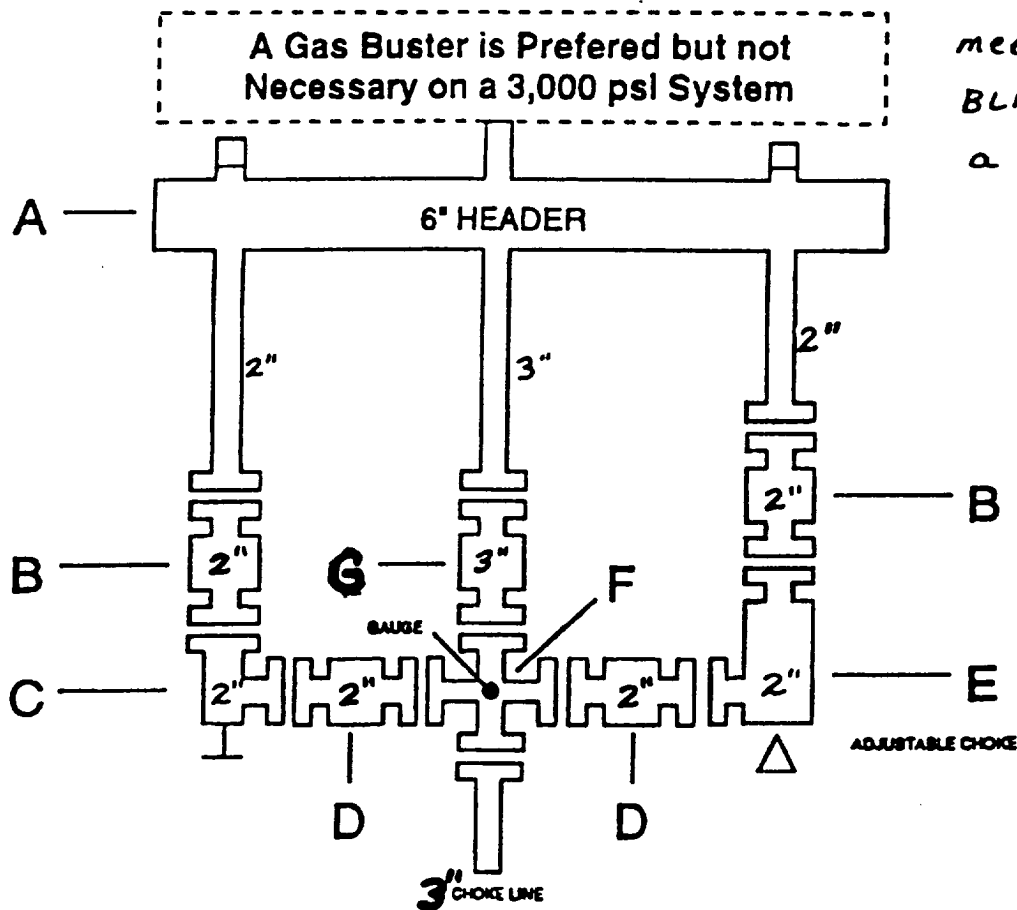
PAGE 2 OF 2

SONAT EXPLORATION

West ~~XXXXXXXXXX~~ TEXAS BUSINESS UNIT

Minimum Requirements for a
3,000 psi BOP Stack Manifold

*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.

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G. 3" 3m Manual Valve