

UNITED STATES 88210
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☒

X

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Sonat Exploration Company - Midland

109487

3. ADDRESS OF OPERATOR

110 W. Louisiana, Su. 500, Midland, Texas 79701

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

At SURFACE

660' FNL & 660' FWL of Section 12

At proposed prod. zone

Same

UNIT D

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

20 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)

660'

16. NO. OF ACRES IN LEASE

160

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

9150'

20. ROTARY OR CABLE TOOLS

Rotary

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

3515' Ground Level

22. APPROX. DATE WORK WILL START*

September 1, 1995

23.

PROPOSED CASING AND CEMENTING PROGRAM

Secretary's Potash

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	11 3/4"	42# WC50	830'	Sufficient to circulate
11"	8 5/8"	24 & 32# J-55	4450'	Sufficient to circulate
7 7/8"	5 1/2"	17# J-55	9150'	2050sx (TIE BACK)

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 B-1 ACCESS ROAD AND FACILITIES MAP

EXHIBIT C - LOCATION AND ACREAGE DEDICATION PLAT

EXHIBIT C-1 TOPO MAP

EXHIBIT D - DRILLING AND RIG LAYOUT

EXHIBIT E - 3M BOP EQUIPMENT

RECEIVED

SEP 20 1995

OIL CON. DIV.
DIST. 2

Part ID-1
9-29-95
Newark & API

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 H. Glenn Carter

TITLE Sr. Drlg. and Prod. Engr.

DATE 7/22/95 7/27/95

(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY G. L. Lucero

TITLE Acting State Director

DATE 9-6-95

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

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

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

DISTRICT II
P.O. Drawer DE, Artesia, NM 86211-0719

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

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28656	Pool Code 96/91	Pool Name Undes. Mesa Verde, Delaware
Property Code	Property Name SOTOL "A" FEDERAL	Well Number 2
OGRID No. 109487	Operator Name SONAT EXPLORATION CO.	Elevation 3515

Surface Location

UL or lot No. D	Section 12	Township 24 S	Range 31 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 660	East/West line WEST	County EDDY
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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

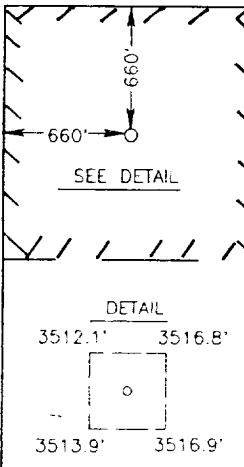
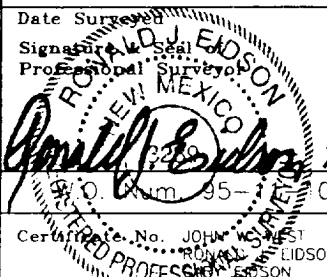
				OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>K. Glenn Carter</u> Signature K. Glenn Carter Printed Name Sr. Drlg. & Prod. Eng. Title July 22, 1995 Date		
				SURVEYOR CERTIFICATION I hereby certify that the 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. JUNE 27, 1995 Date Surveyed  Signature John W. Eidsen Printed Name John W. Eidsen Title Professional Surveyor Date 7-05-95 Certification No. JOHN W. EIDSEN 3239 State of New Mexico Professional Surveyor 676 3239 12641		

EXHIBIT "C"

LOCATION & ACREAGE DEDICATION PLAT

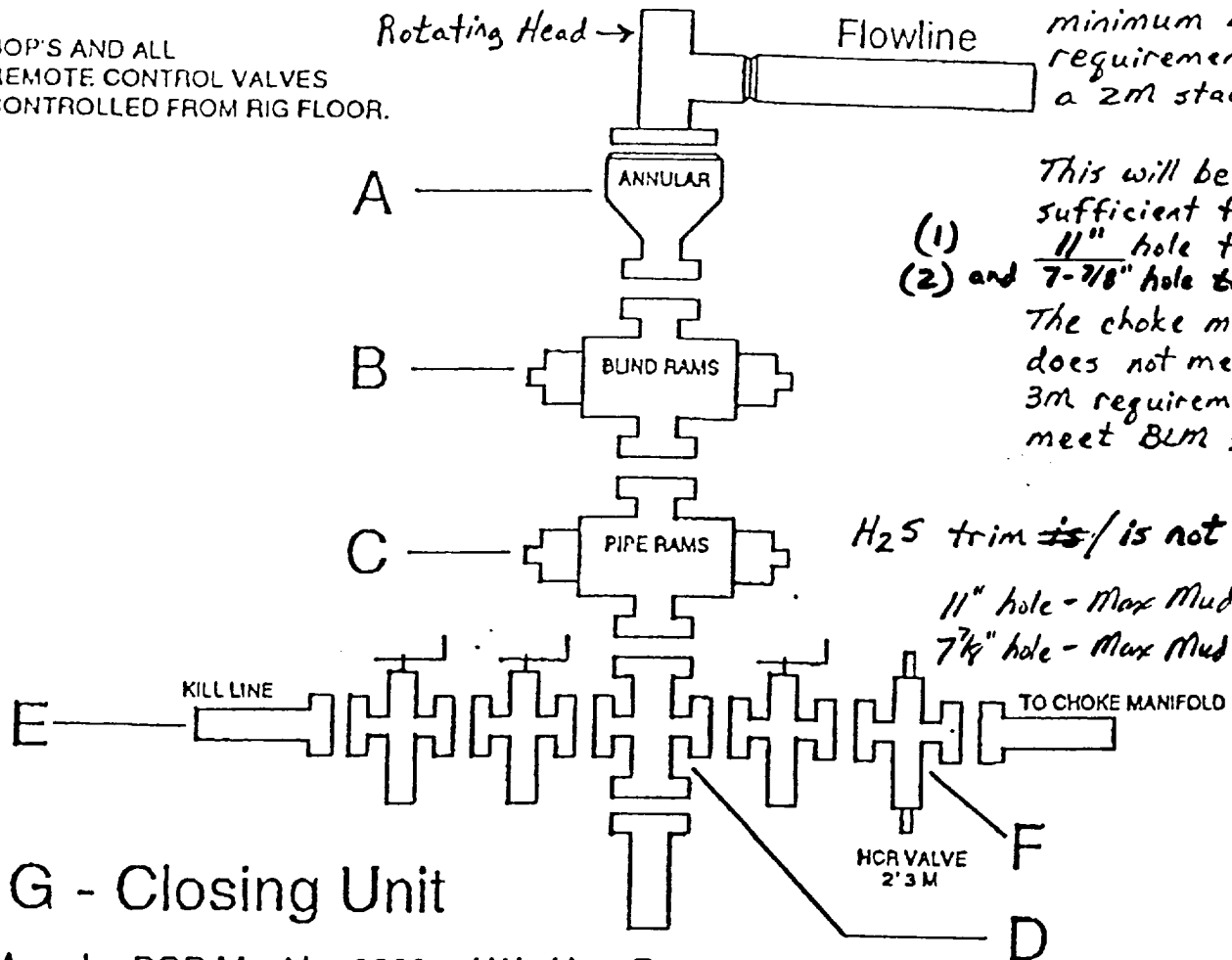
SOUTH TEXAS BUSINESS UNIT

Minimum Requirements for a 3,000 psi BOP

Stack Manifold & Closing System

- meets the minimum BLM requirements for a 2M stack only.

BOP'S AND ALL REMOTE CONTROL VALVES CONTROLLED FROM RIG FLOOR.



(1) This will be sufficient for the 11" hole to 430'
(2) and 7-7/8" hole to TD.

The choke manifold does not meet all 3M requirements to meet BLM specs.

H₂S trim ~~is~~ / is not required.

11" hole - Max Mud Wt 10 pp
7-7/8" hole - Max Mud Wt 8.5 pp

G - Closing Unit

- 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/ 2" 3 M Valves. Inside Valve can be Manual but the Outside Valve Must be Hydraulic (HCR). Choke Line Must be 2" 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.

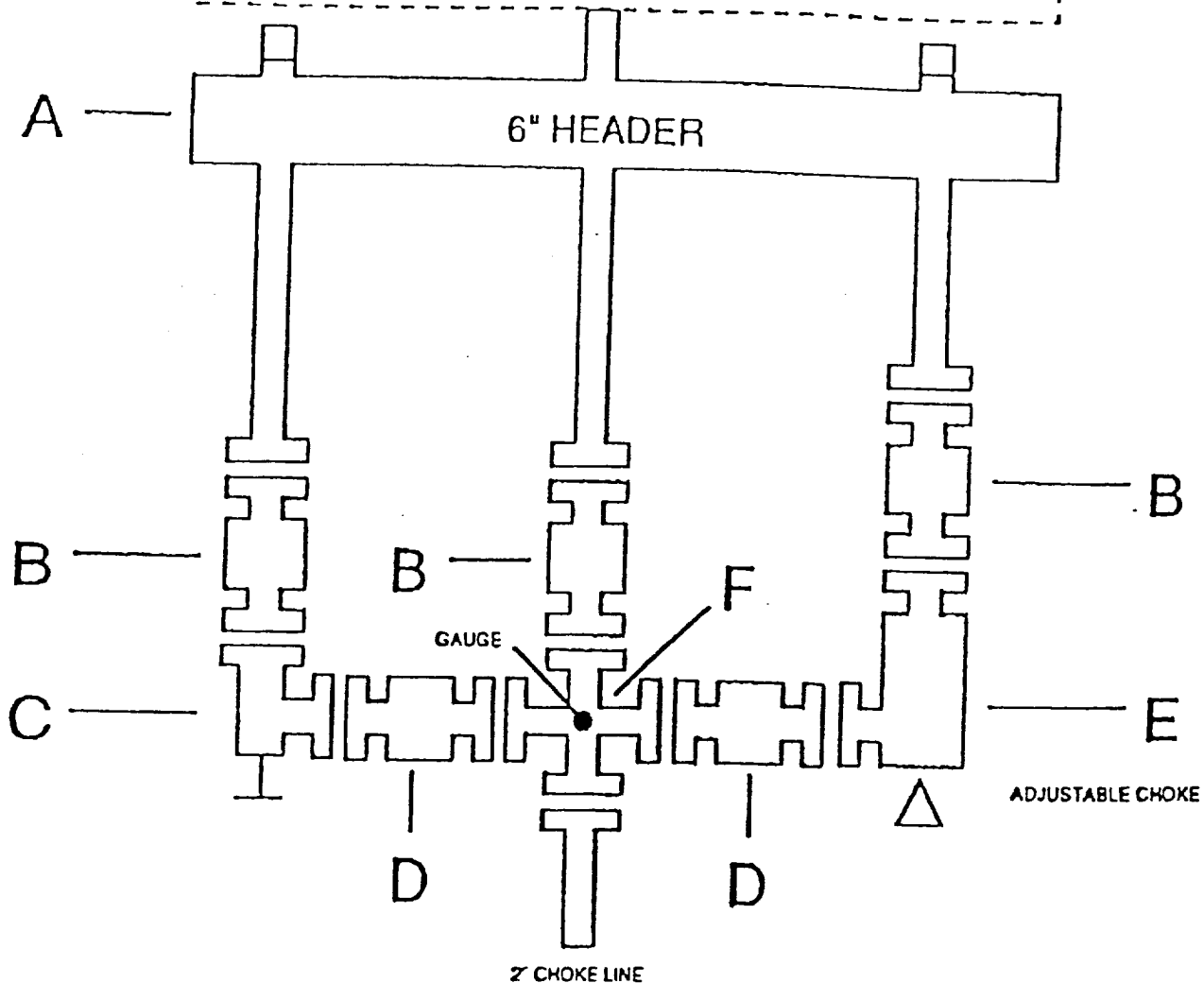
Exhibit C
Page 2 of 2

SOUTH TEXAS BUSINESS UNIT

Minimum Requirements for a
3,000 psi BOP Stack Manifold

- meets requirements
for a 2m stack only
as per the BLM
requirements.

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



- 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. 2" 3 M Tee w/ Gauge in Top Side 2" Choke Line

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