

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 <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-77047	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Sonat Exploration Company - Midland 109487		7. LEASE AGREEMENT NAME API # 30-CIS-28673	
3. ADDRESS OF OPERATOR 110 W. Louisiana, Su. 500, Midland, Texas 79701		8. FARM OR LEASE NAME Lotos "15-E" Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 330' FSL & 330' FWL of Section 15 At proposed prod. zone 330' Same Unit M		9. WELL NO. 1 17623	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 miles east of Loving, New Mexico		10. FIELD AND POOL, OR WILDCAT Wildcat (Delaware/ Bone Springs) 96403	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 330'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15, T-24S, R31E	
16. NO. OF ACRES IN LEASE 40		12. COUNTY OR PARISH Eddy Co.	
17. NO. OF ACRES ASSIGNED TO THIS WELL		13. STATE N.M.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1st well 330'		19. PROPOSED DEPTH 9000'	
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* September 1, 1995	
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 3518' Ground Level		23. APPROX. DATE WORK WILL START* September 1, 1995	

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	670'	Sufficient to circulate
11"	8 5/8"	24 & 32#J-55	4300'	Sufficient to circulate
7 7/8"	5 1/2"	17# J-55	9000'	2050sx

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

Approved Subject to
General Requirements and
Special Stipulations
Attached

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 K. Glenn Carter TITLE Sr. Drlg. and Prod. Engr. DATE 7/28/95
7/22/95

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY 15/61 beat J Lucero TITLE Acting STATE Director DATE 9.21.95

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.
NM-77047

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Lotos "15-E" Federal

9. API Well No.

30-015-28673

10. Field and Pool, or Exploratory Area

Wildcat (Delaware)

Bone Springs

11. County or Parish, State

Eddy County, N.M.

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 Company-Midland

3. Address and Telephone No.

110 W. Louisiana, Suite 500, Midland, Tx. 79701 915-682-6822

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

330' FSL & 330' FWL of Section 15, T-24S, R-31E

Unit M

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 Location

☐ 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.)

Sonat Exploration Company proposes to change surface location on the above captioned well to the following:

Lotos "15-E" Federal # 1

530' FSL & 330' FWL of Section 15, T-24S, R-31E

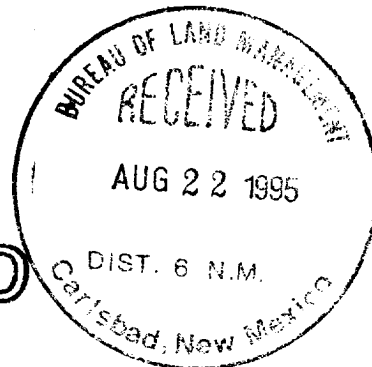
Eddy County, New Mexico

This location has already been surveyed and staked.

RECEIVED

SEP 26 1995

OIL CON. DIV.
DIST. 2



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

Signed K. Glenn Carter

Title Sr. Drlg. and Prod. Engr.

Date 8/18/95

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

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

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

DISTRICT IV
PO BOX 2088, SANTA FE, NM 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 30-015-28673	Pool Code 96403	Pool Name Wildcat (Delaware/Bone Springs)
Property Code	Property Name LOTOS "15-E" FEDERAL	Well Number 1
OGRID No. 109487	Operator Name SONAT EXPLORATION CO.	Elevation 3520

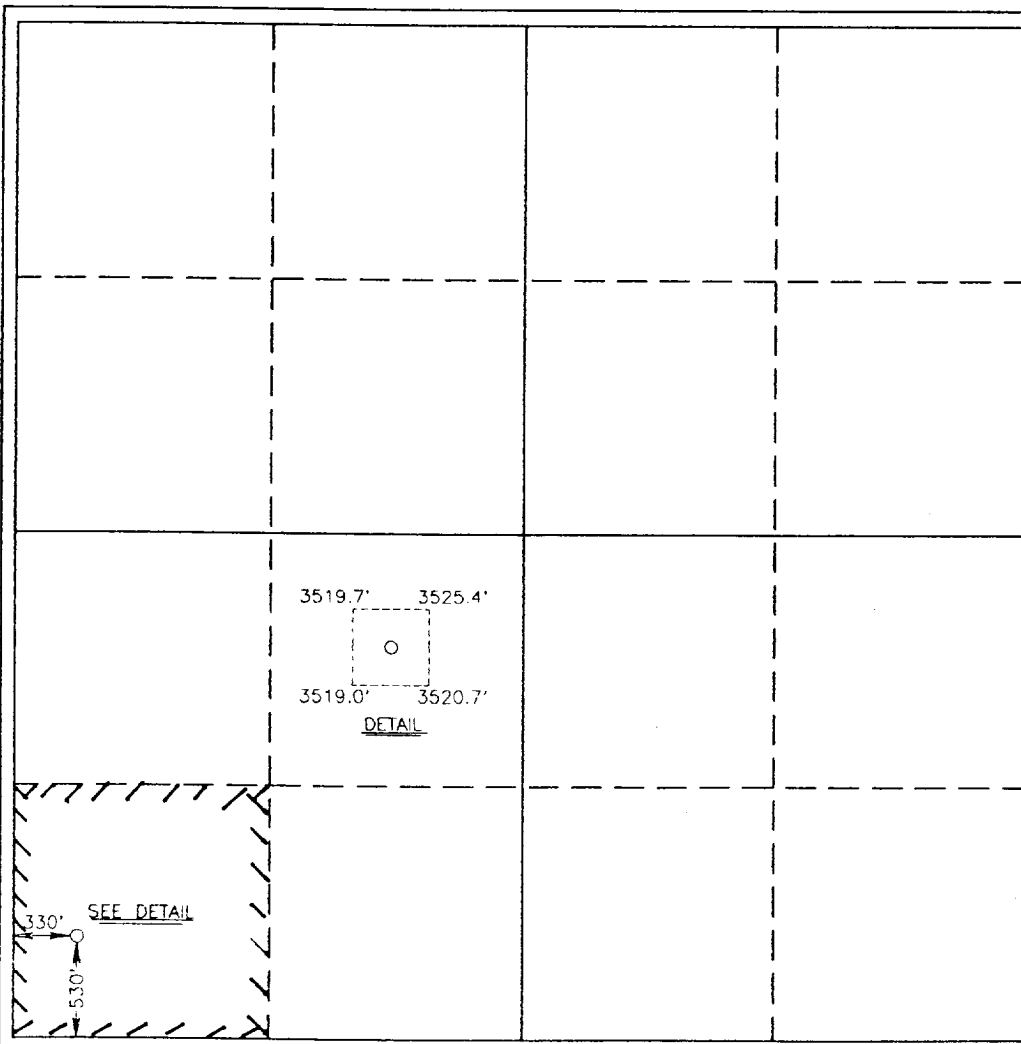
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	24 S	31 E		530	SOUTH	330	WEST	EDDY

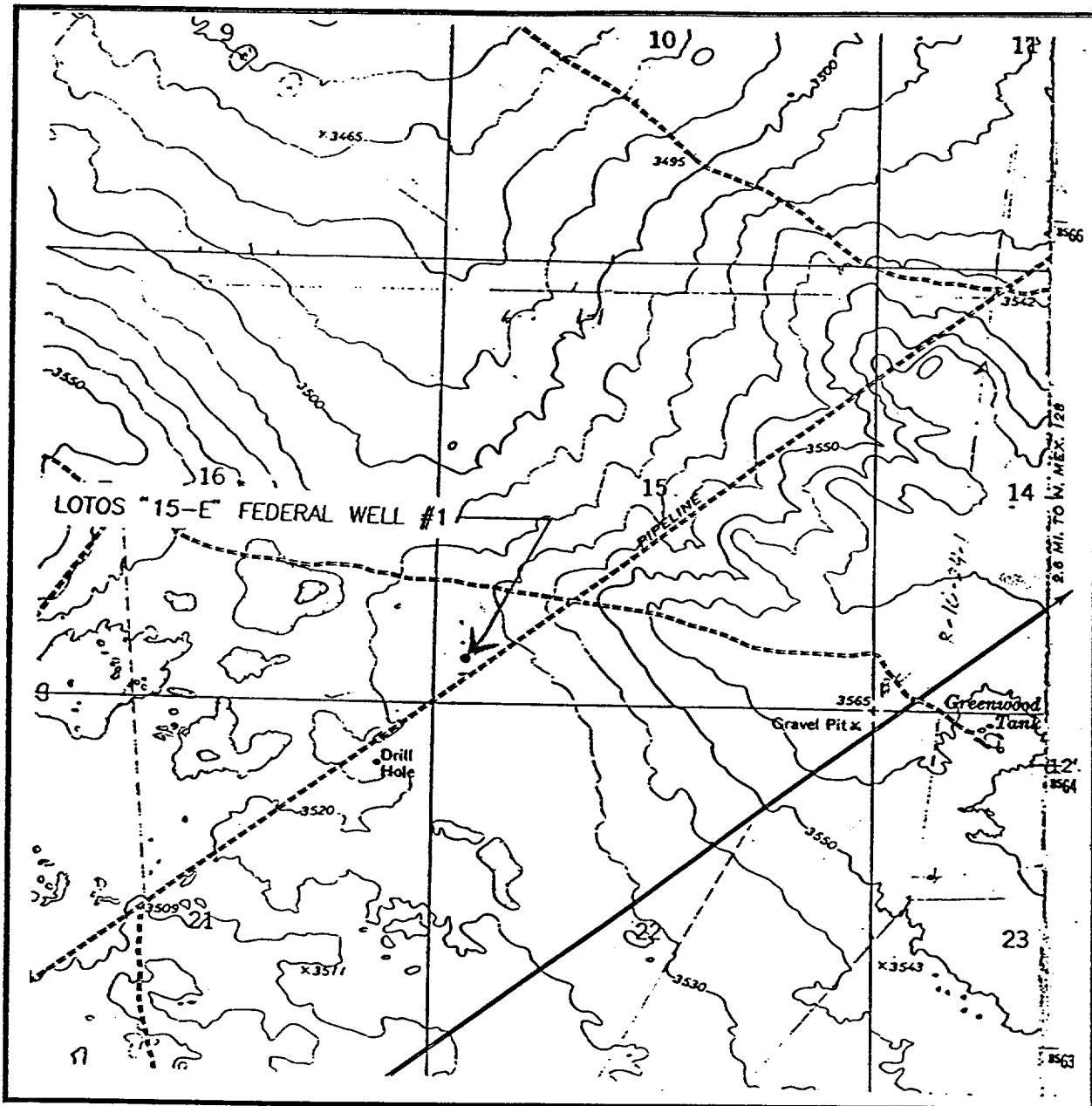
Bottom Hole Location If Different From Surface

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.						

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 8/18/95 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. AUGUST 14, 1995 Date Surveyed Signature <u>Ronald J. Eidson</u> Professional Surveyor NEW MEXICO 8-15-95 Certified by <u>Ronald J. Eidson</u> WEST 3239 12641

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL - 10'

SEC. 15 TWP. 24-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 530' FSL & 330' FWL

ELEVATION 3520

OPERATOR SONAT EXPLORATION CO.

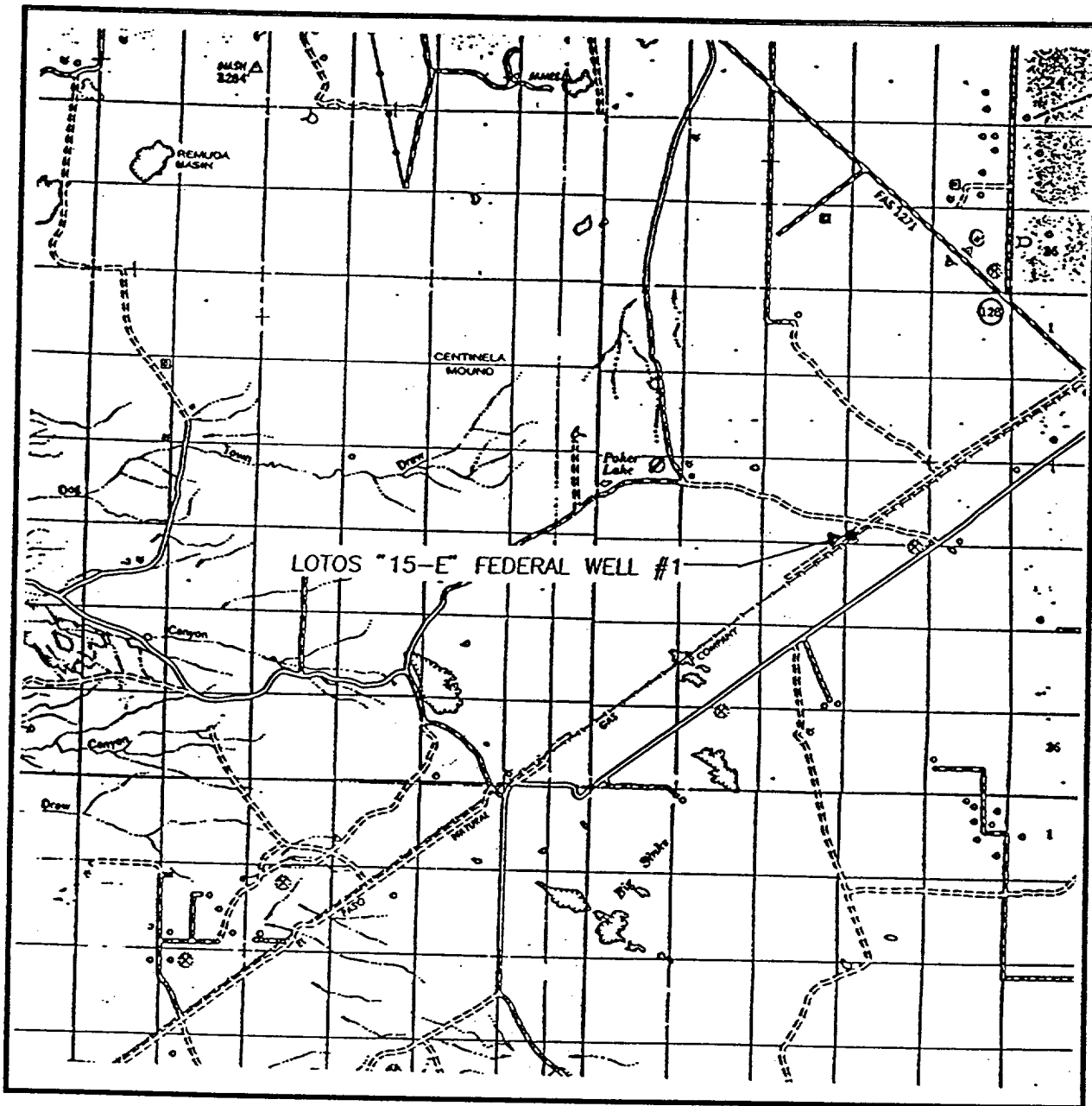
LEASE LOTOS "E-15" FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

BIG SINKS, N.M.

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO
(505) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 15 TWP. 24-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 530' FSL & 330' FWL

ELEVATION 3520

OPERATOR SONAT EXPLORATION CO.

LEASE LOTOS "E-15" FEDERAL

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO
(505) 393-3117

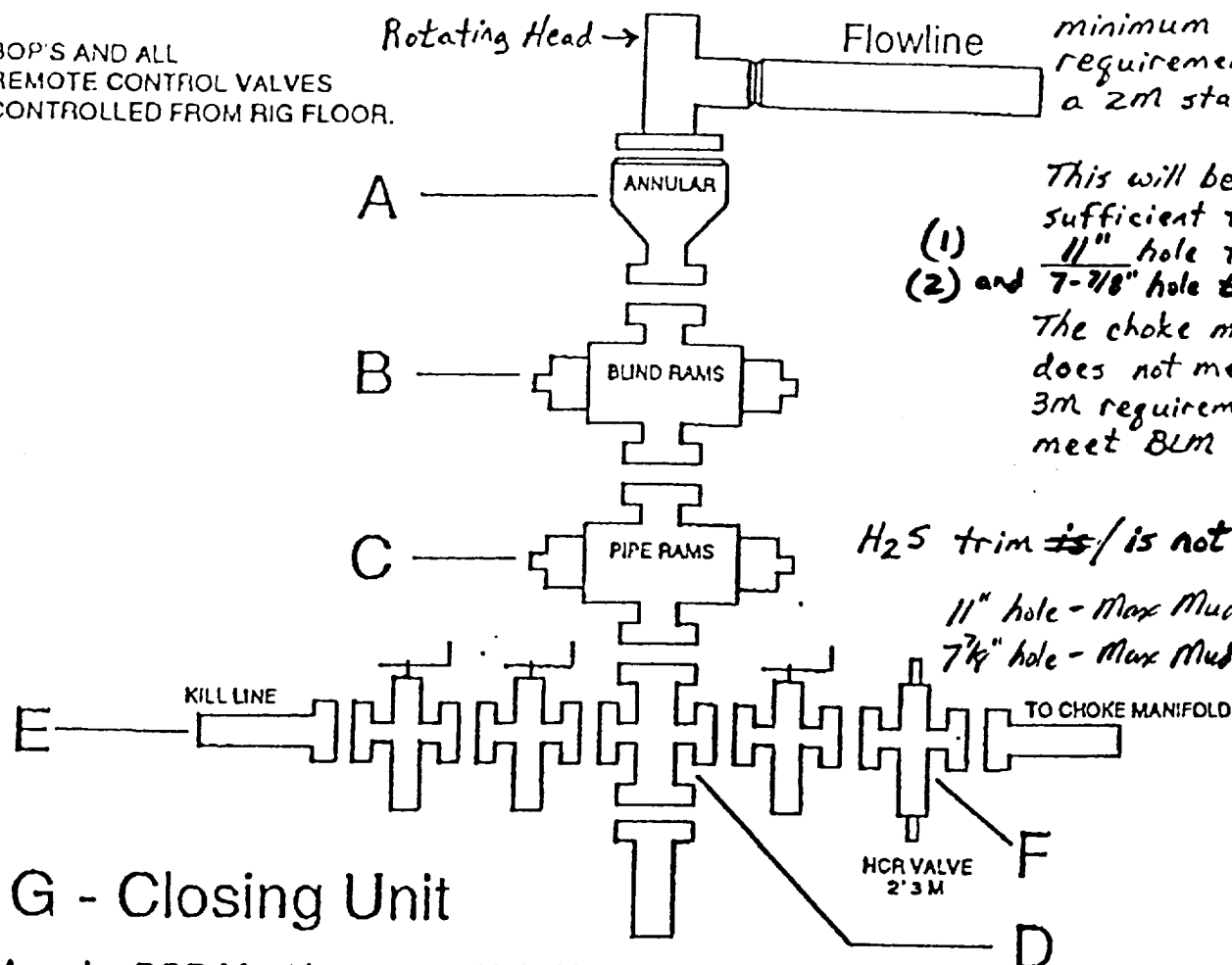
SOUTH TEXAS BUSINESS UNIT

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.



- 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.

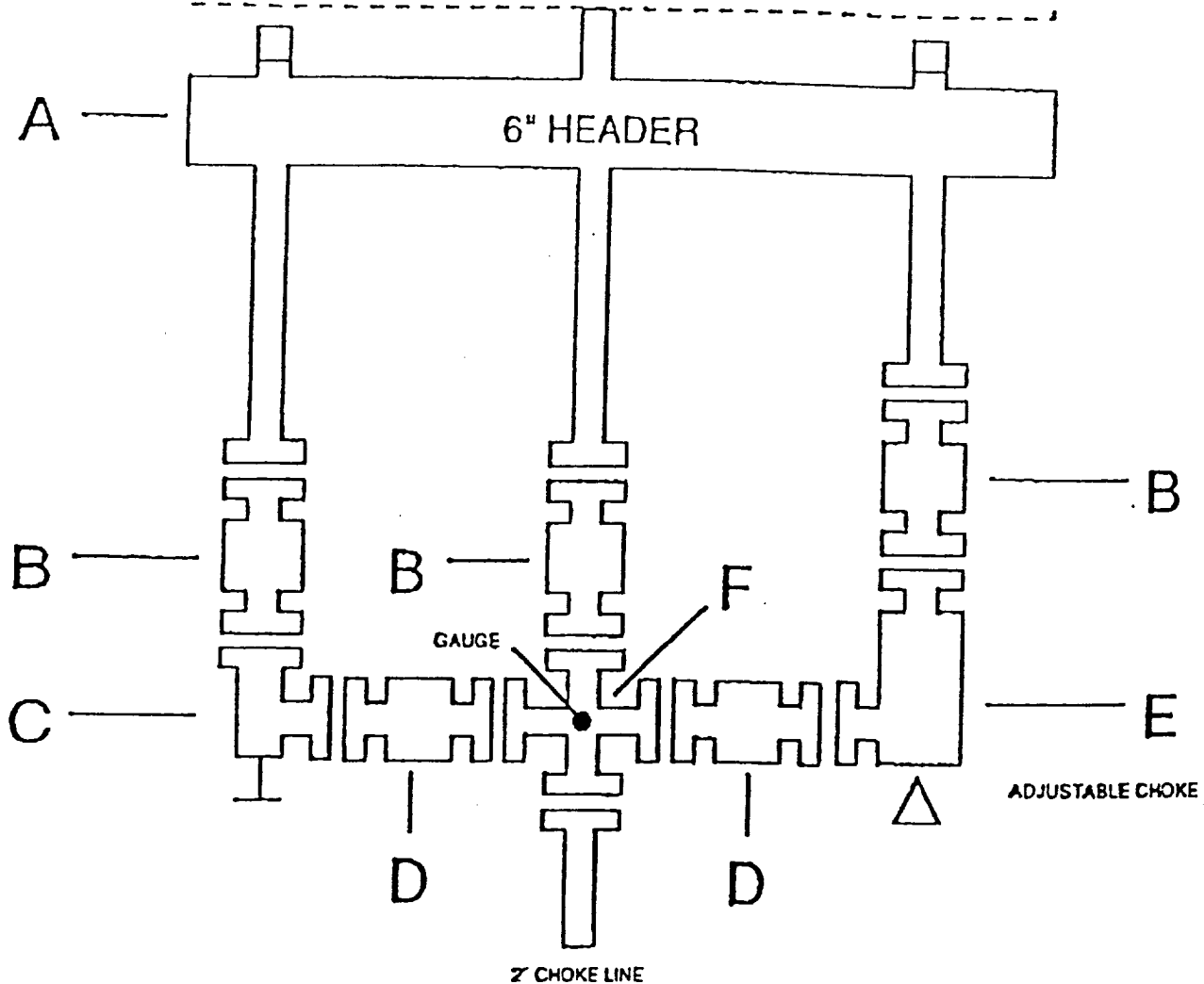
- D. Drilling Spool w/ 2 Outlets for Choke Line & Kill Line
- E. Kill Line 2" 3 M w/ 2 Manual Valves Bolted & Flanged Below Bottom Pipe Rams. Either a Drilling Spool or the Outlet on the BOP Stack can be Used to Accommodate Kill Line and Choke Line.
- F. Choke Line w/ 2" 3 M Valves. Inside Valve can 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.

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.