

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-033647

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No. 13

BOGLE FLATS UNIT

9. API Well No.

30-015-28827

10. Field and Pool, or Exploratory Area

INDIAN BASIN; UPPER PEN

11. County or Parish, State

EDDY

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

ORYX ENERGY COMPANY

3. Address and Telephone No.

P.O. BOX 2880 DALLAS, TX 75221-2880

214 715-3242

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

SEC 17, T 22S, R 23E

1020' FNL & 750' FEL

SJS

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.)\*

SEE ATTACHED PROCEDURE; NOTE CHANGES IN ITEM 4 & ITEM 6

RECEIVED

APR 15 1996

OIL CON. DIV.  
DIST. 2

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

Signed Daniele Burris DANIELE BURRIS

Title PRORATION ANALYST

Date 3-6-96

(This space for Federal or State office use)

Approved by Orig. Signed by Shannon J. Shaw

Title PETROLEUM ENGINEER

Date 4/11/96

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 as to any matter within its jurisdiction.

\*See instruction on Reverse Side

**TEN POINT DRILLING PLAN FOR BOGLE FLATS UNIT # 13  
IN COMPLIANCE WITH ORDER NUMBER 1**

ORYX ENERGY COMPANY  
BOGLE FLATS UNIT # 13  
SEC. 17, T22S, R23E  
1020' FNL & 750' FEL  
EDDY COUNTY, NEW MEXICO

- 1) GEOLOGIC SURFACE FORMATION: QUATERNARY
- 2) ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

WOLFCAMP	5561'
UPPER PENN (CISCO)*	6967'

- 3) ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS, OR MINERALS:  
FORMATIONS POSSIBLY PRODUCTIVE WITH OIL OR GAS ARE  
INDICATED WITH AN ASTERISK(\*) IN ABOVE SECTION 2.

- 4) PROPOSED CASING PROGRAM:

SIZE	CASING SEAT	FOOTAGE	GRADE	WEIGHT & CONNECTION
9-5/8"	1300	1300	K-55	36 # ST&C
7"	6990'	6990'	K-55	23 & 26 # ST&C
3-1/2"	TBG	6900'	J-55	9.3# EUE

- 5) PROPOSED CEMENTING PROGRAM:

9-5/8" ATTEMPT TO CEMENT TO SURFACE IN ONE STAGE USING 540 SX 35:65:6  
POZ:A:GEL + 10 PPS GILSONITE, TAILED WITH 420 SX CLASS "C" NEAT

HOLE SIZE	14-3/4"		
CMT YIELD: LEAD	2.23 CU.FT./SK	12.1 PPG	
CMT YIELD: TAIL	1.32 CU. FT./SX.	14.8 PPG	
PERCENT EXCESS:	100		

7" CEMENT IN ONE STAGE WITH 150 SX 35:65:6 POZ:H:GEL + 10% GILSONITE, TAILED  
WITH 210 SX CLASS H W/ 0.6% FLA

HOLE SIZE	8-3/4"		
CMT YIELD: LEAD	2.23 CU.FT./SK	12.1 PPG	
CMT YIELD: TAIL	1.18 CU. FT./SX.	15.6 PPG	
TOP OF LEAD	4800' ( EXCESS: 50%)		
TOP OF TAIL	6300' ( EXCESS: 50%)		

NOTE: CEMENT VOLUMES WILL BE ADJUSTED BY FLUID CALIPER ON THE 9-5/8" AND  
ELECTRIC CALIPER ON THE 7" STRING. CEMENT TYPES AND ADDITIVES MAY  
CHANGE BASED ON DOWNHOLE CONDITIONS.

6) TYPE AND MUD SYSTEM CHARACTERISTICS:

FROM	TO	TYPE	WT.	VISC.	WL
0	6000	FW W/GEL/LIME	8.4-8.6	28-30	NC
6000	6990 +/-	FW /GEL/POLYMER	8.5-8.7	32-34	<15
6990	7200	Air/Mist Drilling			

7) BOP AND AUXILIARY EQUIPMENT:

BOP & CHOKE MANIFOLD WILL BE SETUP AS INDICATED ON ATTACH EXHIBITS.

ACCUMULATOR VOLUME WILL BE SUFFICIENT TO PROVIDE AN OPEN AND CLOSING OF PREVENTERS WITH 50% RESERVE.

A DRILL PIPE FULL OPENING SAFETY VALVE WILL BE KEPT ON THE RIG FLOOR IN THE OPEN POSITION AT ALL TIMES DURING DRILLING OPERATIONS.

AN UPPER AND LOWER KELLY COCK WILL BE USED.

8) TEST PROCEDURE AND DRILLS:

RAM TYPE PREVENTERS WILL BE TESTED TO 70 % OF CASING BURST PRESSER

ANNULAR PREVENTER WILL BE TESTED TO 1500 PSI

APPROVED CLOSE-IN PROCEDURE TO BE POSTED ON THE RIG FLOOR.

EACH RIG CREW WILL HOLD A WEEKLY BOP DRILL.

9) TESTING AND LOGGING

A DST MAY BE REQUIRED.

OPEN HOLE LOGGING PROGRAM:

DUAL LATERLOG/MICRO SFL/GR/TENSION 6990-SURFACE PIPE  
CNL/LITHO-DENSITY/PE/CAL/TENSION 6990-5500'

MUD LOGGING UNIT TO BE IN SERVICE FROM 5500' TO TD

10) POTENTIAL HAZARDS:

NO ABNORMAL TEMPERATURES OR PRESSURES ARE ANTICIPATED.  
H2S POTENTIAL EXIST IN UPPER PENN. H2S PLAN ATTACHED.

11) ESTIMATED STARTING DATE:

ANTICIPATE STARTING OPERATIONS ON OR BEFORE MARCH 1, 1996

## MULTI-POINT SURFACE USE AND OPERATION

1) EXISTING ROADS:

THE PROPOSED WELLSITE AND EXISTING ROADS TO PROPOSED LOCATION ARE SHOWN IN EXHIBIT #1. THE DIRECTIONS TO THIS WELL ARE AS FOLLOWS:

FROM CARLSBAD, NEW MEXICO PROCEED NORTH ON HIGHWAY 285 FOR 12.3 MILES TO A FORK, TAKE THE LEFT FORK, PROCEED 8.8 MILES TO FORK, TAKE RIGHT FORK (EDDY CR 401), GO 1 MILE WEST PAST MARATHON TO ORYX SIGN ON LEFT, TURN LEFT. GO 1 MILE, TAKE LEFT FORK ON MAIN ROAD TO CATTLEGUARD (APX. 3 MILES), GO PAST BOGLE FLATS 11 TO TEE IN ROAD, GO LEFT 1 MILE TO FORK, GO LEFT 1.5 MILES TO FORK, GO LEFT 0.5 MILE TO FORK, GO LEFT 0.7 MILES TO NEW ROAD ON THE LEFT, GO 0.3 MILES TO LOCATION.

2) PLANNED ACCESS ROADS:

THE PROPOSED LOCATION WILL UTILIZE AN ACCESS ROAD SITUATED IN THE NE/4 OF SEC 17.

3) LOCATION OF EXISTING WELLS:

EXISTING WELLS WITHIN A ONE-MILE RADIUS ARE SHOWN ON EXHIBIT #1

4) LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. EXISTING FACILITIES WITHIN A ONE-MILE RADIUS OF THE PROPOSED LOCATION CAN BE SEEN ON EXHIBIT #1. THESE EXISTING FACILITIES INCLUDE GAS WELLS AND THEIR RESPECTIVE BATTERIES.

B. IF THE PROPOSED WELL IS COMPLETED AND PRODUCTIVE, PLANS ARE TO CONSTRUCT A TANK BATTERY AT THE WELL PAD AND NO ADDITIONAL SURFACE DISTURBANCE WILL OCCUR.

5) LOCATION AND TYPE OF WATER SUPPLY:

WATER WILL BE PURCHASED FROM A COMMERCIAL WATER HAULER AND TRUCKED TO THE PROPOSED WELLSITE.

6) SOURCE OF CONSTRUCTION MATERIALS:

CALCITE FOR CONSTRUCTION THE PROPOSED WELL LOCATION AND ACCESS ROAD WILL BE DETERMINED AND DISCUSSED DURING ONSITE WITH THE BLM.

7) METHODS OF HANDLING WASTE DISPOSAL:

A. DRILL CUTTINGS WILL BE DISPOSED OF IN THE RESERVE PIT.

B. DRILLING FLUID WILL BE HAULED OFF TO DISPOSAL AT COMPLETION OF DRILLING OPERATIONS.

- C. WATER PRODUCED DURING TESTS WILL BE DISPOSED OF IN THE RESERVE PITS. OIL PRODUCED DURING TESTS WILL BE STORED IN A TEST TANK UNTIL SOLD. GAS WILL BE FLARED.
  - D. SALTS AND CHEMICALS WILL BE DEPOSITED IN THE RESERVE PIT.
  - E. A PORTABLE SEPTIC TANK WILL BE USED AT THE LOCATION FOR THE DISPOSAL OF HUMAN WASTE. WASTE WILL BE DISPOSED OF AT AN APPROVED SITE.
  - F. THRASH, WASTE PAPER, GARBAGE AND JUNK WILL BE CONTAINED IN TRASH TRAILER AND HAULED TO APPROVED LAND FILL.
  - G. ALL TRASH AND DEBRIS WILL BE BURIED OR REMOVED FROM THE WELLSITE AFTER FINISHING DRILLING AND/OR COMPLETION OPERATIONS.
- 8) ANCILLARY FACILITIES:
- NONE REQUIRED
- 9) WELLSITE LAYOUT:
- A EXHIBIT #2 SHOWS THE GENERAL LOCATION AND DIMENSIONS OF THE WELL LOCATION, MUD PITS, RESERVE PIT, BURN PIT, AND THE AREA OF LOCATION FOR MAJOR RIG COMPONENTS.
  - B. LEVELING OF THE WELLSITE WILL BE REQUIRED, NO SIGNIFICANT CUT OR FILLS WILL BE NECESSARY.
  - C. THE RESERVE PIT WILL BE PLASTIC LINED.
- 10) PLANS FOR RECLAMATION OF THE SURFACE:
- A. AFTER COMPLETION OF DRILLING AND TESTING PROGRAM. ALL EQUIPMENT AND OTHER MATERIAL NOT NEEDED FOR OPERATIONS WILL BE REMOVED. PITS WILL BE FILLED AND THE LOCATION CLEANED OF ALL THRASH AND JUNK.
  - B. ANY UNGUARDED POTS CONTAINING FLUIDS WILL BE FENCED UNTIL THEY ARE FILLED.
  - C. AGREEMENT BETWEEN DRILLING CONTRACTOR AND BLM TO STACK THE DRILLING RIG ON LOCATION WILL BE THE RESPONSIBILITY OF THE DRILLING CONTRACTOR.
  - D. AFTER ABANDONMENT OF THE WELL, SURFACE RESTORATION WILL BE IN ORDINANCE WITH THE REQUIREMENTS OF THE SURFACE MANAGEMENT AGENCY. PITS WILL BE FILLED AND LOCATION WILL BE CLEANED. THE PIT AREA. WELL PAD SURFACE LOCATION WILL BE RIPPED TO PROMOTE RE-VEGETATION.
- 11) SURFACE OWNERSHIP
- |                           |                           |
|---------------------------|---------------------------|
| MINERAL OWNER:            | SURFACE OWNER:            |
| BUREAU OF LAND MANAGEMENT | BUREAU OF LAND MANAGEMENT |
| P. O. BOX 1778            |                           |
| CARLSBAD, NM 88220        |                           |

12) OTHER INFORMATION:

- A. TOPOGRAPHY: LAND SURFACE IS GENTLY SLOPING WITH SILTY CLAY LOAM AND SPORADIC LIMESTONE OUTCROPS. VEGETATION CONSISTS OF YUCCA, DESERT SUMAC, JUNIPER, PRICKLY PEAR, AND VARIOUS GRAMA.

THE GROUND LEVEL ELEVATION OF THE WELLSITE IS 4152 FT

- B. SOIL: SILTY CLAY LOAM

- C. PONDS AND STREAMS: THE PROPOSED LOCATION IS SITUATED ON A HILLSIDE ABOVE AN INTERMITTANT STREAM BED.
- =====

- D. ARCHAEOLOGICAL SURVEY: AN ARCHAEOLOGICAL CLEARANCE SURVEY WAS CONDUCTED ON NOVEMBER 14, 1995 BY AN INVESTIGATOR FROM DESERT WEST ARCHAEOLOGICAL SERVICES, INC. THE ARCHAEOLOGICAL CLEARANCE REPORT IS ATTACHED.

- E. LAND USE: GRAZING

13. THE COMPANY REPRESENTATIVES RESPONSIBLE FOR ASSURING COMPLIANCE WITH THE APPROVED SURFACE USE AND OPERATION PLAN ARE AS FOLLOWS:

BILL LEWIS

(214) 715-3026 (OFFICE)

(214) 233-2734 (HOME)

DALLAS TEXAS

CERTIFICATION

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I HEREBY CERTIFY THAT I, OR PERSONS UNDER MY DIRECT SUPERVISION, HAVE INSPECTED THE PROPOSED DRILL SITE AND ACCESS ROUTE; THAT I AM FAMILIAR WITH THE CONDITIONS WHICH CURRENTLY EXIST; THAT THE STATEMENTS MADE IN THIS PLAN ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND CORRECT; AND THAT THE WORK ASSOCIATED WITH OPERATIONS PROPOSED HEREIN WILL BE PERFORMED BY ORYZ ENERGY COMPANY AND ITS CONTRACTORS AND SUBCONTRACTORS IN CONFORMITY WITH THIS PLAN AND THE TERMS AND CONDITIONS UNDER WHICH IT IS APPROVED.



BILL LEWIS  
DRILLING SUPERINTENDENT

3-6-96

DATE

# ORYX ENERGY COMPANY

## H2S DRILLING OPERATIONS PLAN

### I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well.

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S).
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors, alarms, warning system, briefing ares, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements and the Public Protection Plan.

There will be an initial training session involving all permanently assigned supervisory personnel and each and all rig crews participating in drilling operations on the well. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan. This Plan shall be available at the wellsite. All personnel will be required to carry documentation that they have received the proper training.

### II. H<sub>2</sub>S SAFETY EQUIPMENT AND SYSTEMS

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H<sub>2</sub>S.

1. Well Control Equipment
  - A. Flare line with electronic igniter or continuous pilot.

## ORYX ENERGY COMPANY

### H2S DRILLING OPERATIONS PLAN

- B. Choke manifold with a minimum of one remote choke.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head, and flare gun with flares.
- 2. Protective equipment for essential personnel:
  - A. SCBA 30-minute air packs and 5-minute escape units at briefing areas and doghouse.
- 3. H2S detection and monitoring equipment:
  - A. 1 - Monitor with 3 sensors (location of sensors diagramed on location plat). These units have warning lights and audible alarms when H2S levels of 20 ppm are reached.
- 4. Visual warning systems:
  - A. Wind direction indicators as shown on location plat.
  - B. Caution/Danger signs shall be posted on roads providing direct access to the location (see attached). Bilingual signs will be used, when appropriate.
- 5. Mud program:
  - A. The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers will minimize the hazards when penetrating H2S bearing zones expected to present a problem.
  - B. A mud-gas separator will be used.
- 6. Metallurgy:
  - A. All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
  - B. All elastomers used for packing seals shall be H2S trim.
- 7. Communication:
  - A. Radio communications on rig and in company vehicles



## ORYX ENERGY COMPANY

### H2S DRILLING OPERATIONS PLAN

including cellular telephone and 2-way radio.

- B. Land line (telephone) communications at Gas Plant approx. 3 miles away.

8. Well testing:

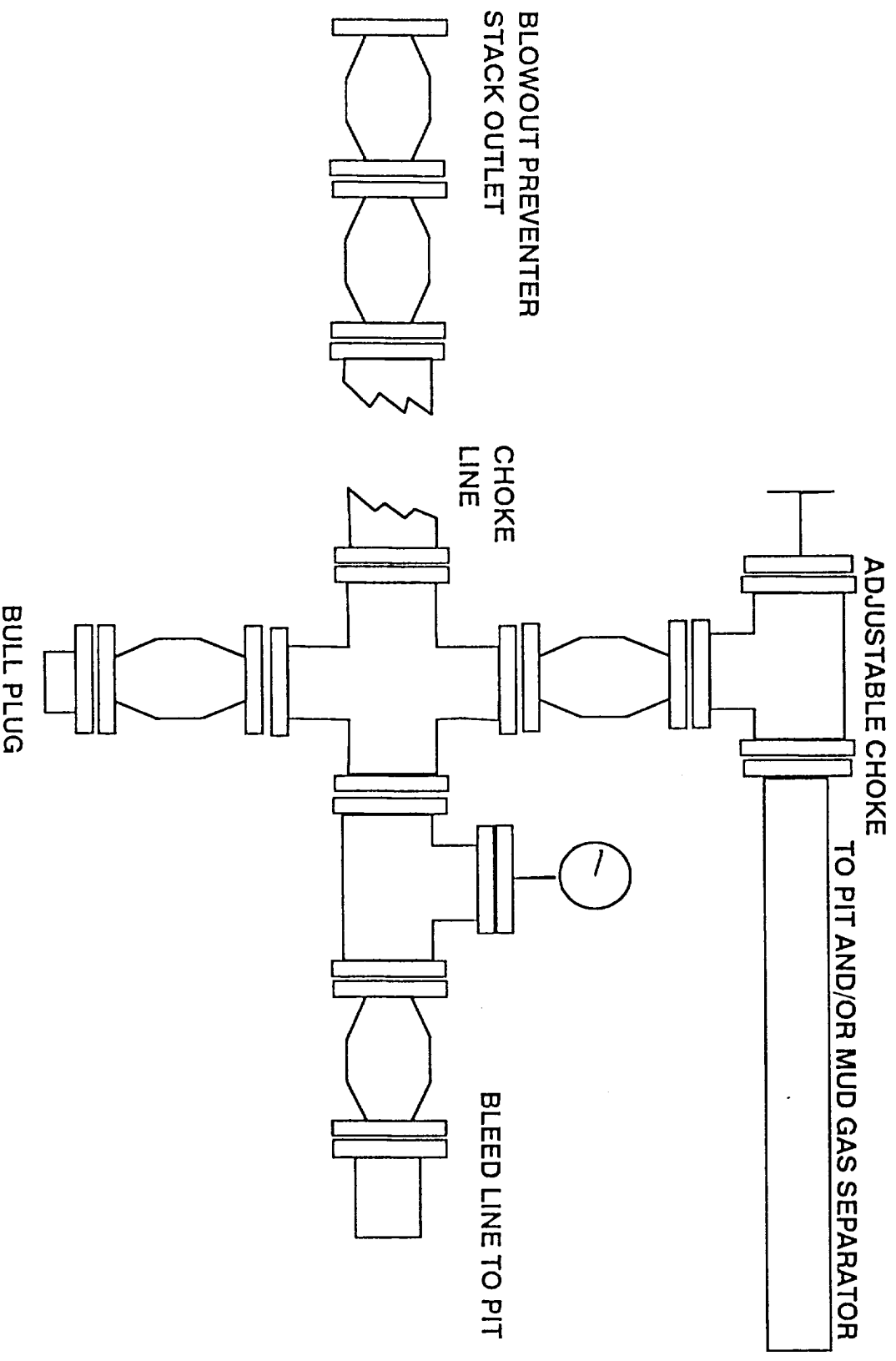
- A. There are no plans to open hole test this well. However, in the event that testing should occur; Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to surface. All drill stem testing operations conducted in an H2S environment will use the closed chamber method of testing.

9. H2S Service company:

The company handling the H2S safety services will be Indian Fire and Safety, Inc. out of Hobbs, New Mexico.

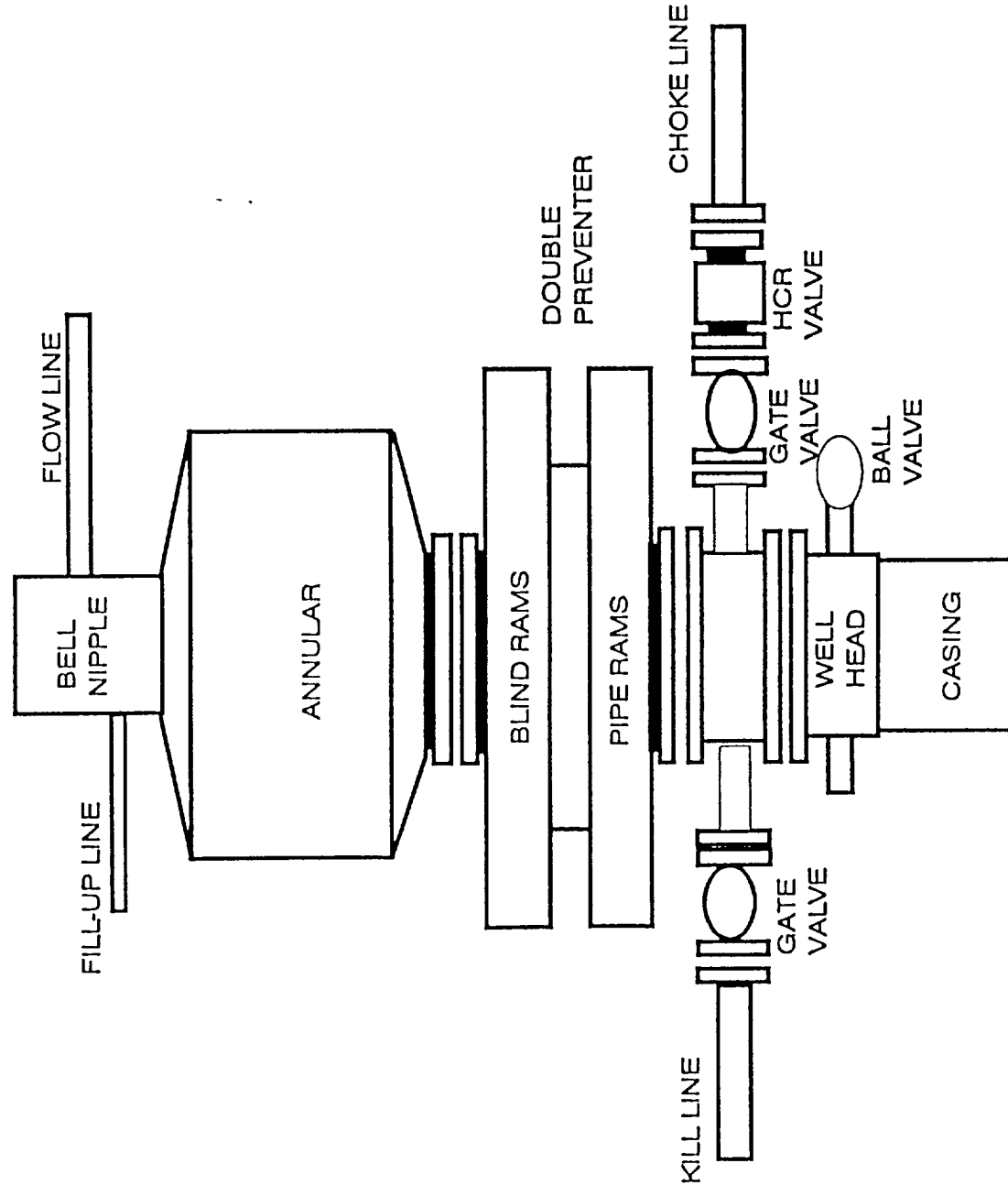
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EXAMPLE CHOKE MANIFOLD ASSEMBLY FOR 3M RATED WORKING PRESSURE



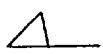
# ORYX ENERGY COMPANY

BOP STACK FOR A 3,000 PSI WORKING PRESSURE  
FOR SURFACE USE





H2S MONITERS WITH ALARMS AT THE BELL NIPPLE, SHAKER AND FLOOR



WIND SOCKS FOR WIND DIRECTION



SAFE BRIEFING AREA WITH BREATHING EQUIPMENT  
150' FROM WELL BORE

