Form 3160-3
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NM 025528

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐

b. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ OTHER — SINGLE ZONE ☒ MULTIPLE ZONE ☐

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME, WELL NO.: Logan Draw 30 Federal Com #1 25529

2. NAME OF OPERATOR: Nearburg Producing Company 15742

9. API WELL NO.: 30-015-31088

3. ADDRESS AND TELEPHONE NO.: 3300 North A Street, Building 2, Suite 120, Midland, Texas 79705 (915) 686-8235

10. FIELD AND POOL, OR WILDCAT: Logan Draw Morrow

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1650' FNL and 660' FEL
At proposed prod. zone: Unit H

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 30, T17S, R27E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 4 miles SE of Artesia, New Mexico

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
660'	160	320
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
660'	9,600'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3,383 GR

22. APPROX. DATE WORK WILL START*: 02/01/00

23. PROPOSED CASING AND CEMENTING PROGRAM — WELL CONTROLLED WATER BASIN

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	1,600'	800 sx cmt, circ to surface
7-7/8"	5-1/2"	17#	9,600'	* 500 sx cmt

* Operator to cover oil, gas, water bearing zones & Cisco-Canyon @ 7600'

OCD Jim W. Gum

Propose to drill well to sufficient depth to evaluate the Morrow formation. After reaching TD, logs will be run and casing set if the evaluation is positive. Perforate, test and stimulate as necessary to establish production.

Acreage dedication 320; N/2 of Section 30.

Notify OCD at SPUD & TIME to witness cementing the 8 5/8" casing.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

RECEIVED
MAR 2000
OCD - ARTESIA

IN ABOVE SPACE DESCRIBE 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 _____ TITLE Drilling Superintendent DATE 02/02/00

(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 Earle Smith TITLE Acting Assistant Field Manager, Lands And Minerals DATE 4/28/00

*See Instructions On Reverse Side

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.

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Nearburg Producing Company
3300 North "A" Street, Building 2, Suite 120
Midland, Texas 77905

The undersigned accepts all applicable terms, conditions, stipulations and restrictions covering operations conducted on the leased land or portion thereof, as described below:

Lease No:	NM-025528
Legal Description of Land:	1650' FNL & 660' FEL Section 30, T17S, R27E Eddy County, New Mexico
Formation(s) (if applicable):	Logan Draw Morrow
Bond Coverage:	$25,000 statewide bond of Nearburg Producing Company
BLM Bond File No:	NM1307

Date 2/2/00

H. R. Willis
Drilling Superintendent

ATTACHMENT TO FORM 3160-3
LOGAN DRAW 30 FEDERAL COM#1
SECTION 30, T17S, R27E
EDDY COUNTY, NEW MEXICO

DRILLING PROGRAM

1. GEOLOGIC NAME OF SURFACE FORMATION

   Yates

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Queen	570'	Cisco	7,200'
San Andres	1,330'	Canyon	7,800'
Glorieta	2,700'	Strawn	8,215'
Tubb	4,100'	Atoka	8,535'
ABO	4,800'	Morrow	8,850'
Wolfcamp	6,150'	Miss	9,150'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL, OR GAS

   Morrow 9,050' Gas

4. CASING AND CEMENTING PROGRAM

Casing Size	From To	Weight	Grade	Joint
8-5/8"	0' – 1,600'	36#	J55	STC
5-1/2"	0' – 5,000'	17#	K55	LTC
	5,000' – 9,600'	17#	N80	LTC

Equivalent or adequate grades and weights of casing may be substituted at time casing is run, depending on availability.

We plan to drill a 12-1/4" hole to equal 1,600'. 8-5/8" casing will be cemented with 800 sx or volume necessary to circulate to surface.

7-7/8" hole will be drilled to 9,600' and 5-1/2" casing will be cemented with 500 sx or volume necessary to cover productive zones.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

The BOP stack will consist of a 3,000 psi working pressure, dual ram type preventer and annular.

A BOP sketch is attached.

6. TYPES AND CHARACTERTICS OF THE PROPOSED MUD SYSTEM

Spud and drill to 1,600' with fresh water mud for surface string. The production section from 1,600' to 9,600' will be 8.8 – 9.2 ppg cut Brine/Pac/XCD system with mud weight sufficient to control formation pressures.

7. AUXILLARY WELL CONTROL AND MONITORING EQUIPMENT

None required.

8. LOGGING, TESTING, AND CORING PROGRAM

DLL/CNL/LDT/CAL/GR logging is planned. Drill stem tests, cores and sidewall cores are possible.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES & POTENTIAL HAZARDS

None anticipated.

BHP expected to be 3,500 psi.

10. ANTICAPATED STARTING DATE:

Is planned that operations will commence on April 1, 2000 with drilling and completion operation lasting about 45 day.

SURFACE USE AND OPERATIONS PLAN FOR

DRILLING, COMPLETION, AND PRODUCING

NEARBURG PRODUCING COMPANY
LOGAN DRAW 30 FEDERAL COM #1
SECTION 30-T17S-R27E
EDDY COUNTY, NEW MEXICO

LOCATED

4 mile Southeast of Artesia, New Mexico

OIL & GAS LEASE

NM - 025528

RECORD LESSEE

Devon Energy Corporation

BOND COVERAGE

$25,000 statewide bond of Nearburg Producing Company

ACRES IN LEASE

320 acre

GRAZING LEASE

Johnson 6 Ranch
c/o Geraldean Johnson
3103 Johnson Road
Artesia, NM 88210

POOL

Logan Draw Morrow

EXHIBITS

A. Area Road Map
B. Drilling Rig Layout
C. Vicinity Oil & Gas Map
D. Topographic & Location Verification Map
E. Well Location & Acreage Dedication Map

This well will be drilled to a depth of approximately 9,600'.

1. EXISTING ROADS

   A. Exhibit A is a portion of a section map showing the location of the proposed well as staked.

   B. Exhibit C is a plat showing existing roads in the vicinity of the proposed well site.

2. ACCESS ROADS

   A. Length and Width

      The access road will be built and is shown on Exhibit D.

   B. Surface Material

      Existing.

   C. Maximum Grade

      Less than five percent

   D. Turnouts

      None necessary.

   E. Drainage Design

      Existing.

   F. Culverts

      None necessary.

   G. Gates and Cattle Guards

      None needed.

3. LOCATION OF EXISTING WELLS

   Existing wells in the immediate area are shown in Exhibit C.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

   Necessary production facilities for this well will be located on the well pad.

5. LOCATION AND TYPE OF WATER SUPPLY

It is not contemplated that a water well will be drilled. Water necessary for drilling will be purchased and hauled to the site over existing roads shown on Exhibit D.

6. METHODS OF HANDLING WASTE DISPOSAL

A. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.

B. Water produced during tests will be disposed of in the drilling pits.

C. Oil produced during tests will be stored in test tanks.

D. Trash will be contained in a trash trailer and removed from well site.

E. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

7. ANCILLARY FACILITIES

None required.

8. WELL SITE LAYOUT

Exhibit B shows the relative location and dimensions of the well pad, mud pits, reserve pit, and trash pit, and the location of major rig components.

9. PLANS FOR RESTORATION OF THE SURFACE

A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. The well site will be cleaned of all trash and junk to leave the site in an as aesthetically pleasing condition as possible.

B. After abandonment, all equipment, trash, and junk will be removed and the site will be clean.

10. OTHER INFORMATION

A. Topography

The land surface at the well site is rolling native grass with a regional slope being to the east.

B. Soil

Topsoil at the well site is sandy soil.

C. Flora and Fauna

The location is in an area sparsely covered with mesquite and range grasses.

D. Ponds and Streams

There are no rivers, lakes, ponds, or streams in the area.

E. Residences and Other Structures

There are no residences within a mile of the proposed well site.

F. Archaeological, Historical, and Cultural Sites

None observed on this area.

G. Land Use

Grazing

H. Surface Ownership

Bureau of Land Management

11. OPERATOR'S REPRESENTATIVE

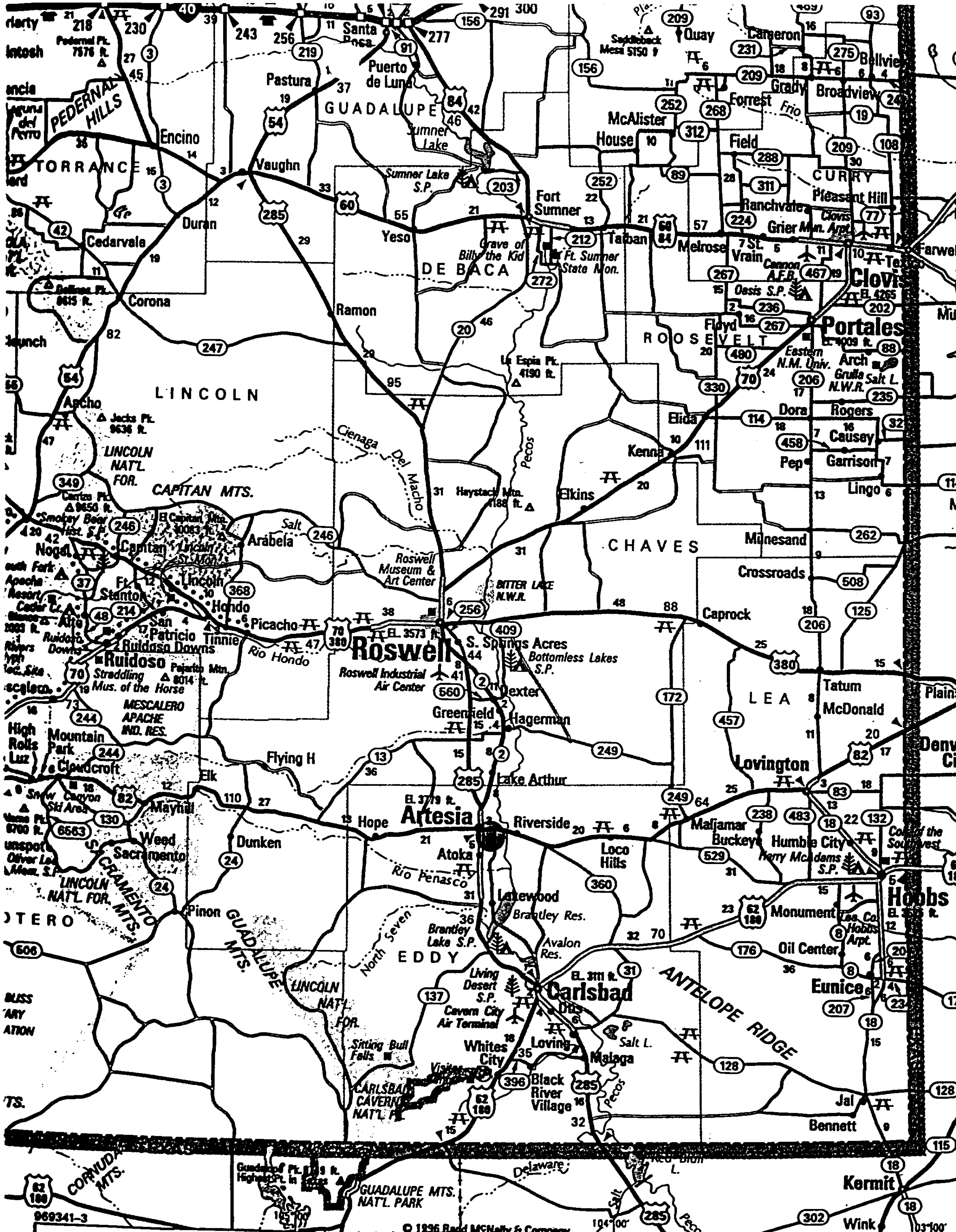
H. R. Willis
3300 North "A" Street, Bldg 2, Suite 120
Midland, Texas 79705
Office: (915) 686-8235
Home: (915) 697-2484

12. CERTIFICATION

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 presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Nearburg Producing Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

2/2/00
Date

H. R. Willis
Drilling Superintendent



Santa Rosa
Puerto de Luna
Pastura
GUADALUPE
Sumner Lake
Encino
PEDERNAL HILLS
TORRANCE
Vaughn
Sumner Lake S.P.
Fort Sumner
Duran
Cedarvale
Yeso
Grave of Billy the Kid
Ft. Sumner State Mon.
DE BACA
Taiban
Quay
Saddleback Mesa 5150 ft.
Cameron
Grady
Broadview
Forrest
McAlister
House
Field
CURRY
Pleasant Hill
Ranchvale
Grier
Melrose
St. Vrain
Cannon A.F.B.
Clovis
Texico
Farwell
Oasis S.P.
Floyd
Portales
Eastern N.M. Univ.
ROOSEVELT
Arch
Grulla N.W.R.
Salt L.
Elida
Dora
Rogers
Causey
Pep
Garrison
Lingo
Kenna
Elkins
Corona
Ramon
La Espia Pk. 4190 ft.
LINCOLN
Ancho
Jacks Pk. 9636 ft.
LINCOLN NAT'L FOR.
CAPITAN MTS.
Cienaga Del Macho
Pecos
Haystack Mtn. 4188 ft.
CHAVES
Milnesand
Crossroads
Caprock
Capitan
Nogal
Arabela
Lincoln
Ft. Stanton
Hondo
San Patricio
Tinnie
Picacho
Ruidoso
Ruidoso Downs
Rio Hondo
Roswell Museum & Art Center
BITTER LAKE N.W.R.
Roswell
EL. 3573 ft.
Roswell Industrial Air Center
S. Springs Acres
Bottomless Lakes S.P.
Dexter
Greenfield
Hagerman
Straddling Mus. of the Horse
MESCALERO APACHE IND. RES.
Mescalero
High Rolls
Mountain Park
Cloudcroft
Flying H
Elk
Lake Arthur
LEA
Tatum
McDonald
Plains
Lovington
Denver City
Mayhill
Weed
Sacramento
Dunken
Hope
EL. 3379 ft.
Artesia
Riverside
Atoka
Loco Hills
Maljamar
Buckeye
Humble City
Harry McAdams S.P.
Col. of the Southwest
SACRAMENTO MTS.
LINCOLN NAT'L FOR.
OTERO
Pinon
GUADALUPE MTS.
Rio Penasco
North Seven
Lakewood
Brantley Res.
Brantley Lake S.P.
Avalon Res.
EDDY
Monument
Lea Co. Hobbs Arpt.
Hobbs
Oil Center
Eunice
Living Desert S.P.
Carlsbad
EL. 3111 ft.
Cavern City Air Terminal
ANTELOPE RIDGE
LINCOLN NAT'L FOR.
Sitting Bull Falls
Otis
Whites City
Loving
Malaga
Salt L.
CARLSBAD CAVERNS NAT'L PK.
Black River Village
Jal
Bennett
CORNUDAS MTS.
GUADALUPE MTS. NAT'L PARK
Delaware
Red Bluff L.
Kermit
Wink
969341-3
104°00'
103°00'
© 1996 Rand McNally & Company

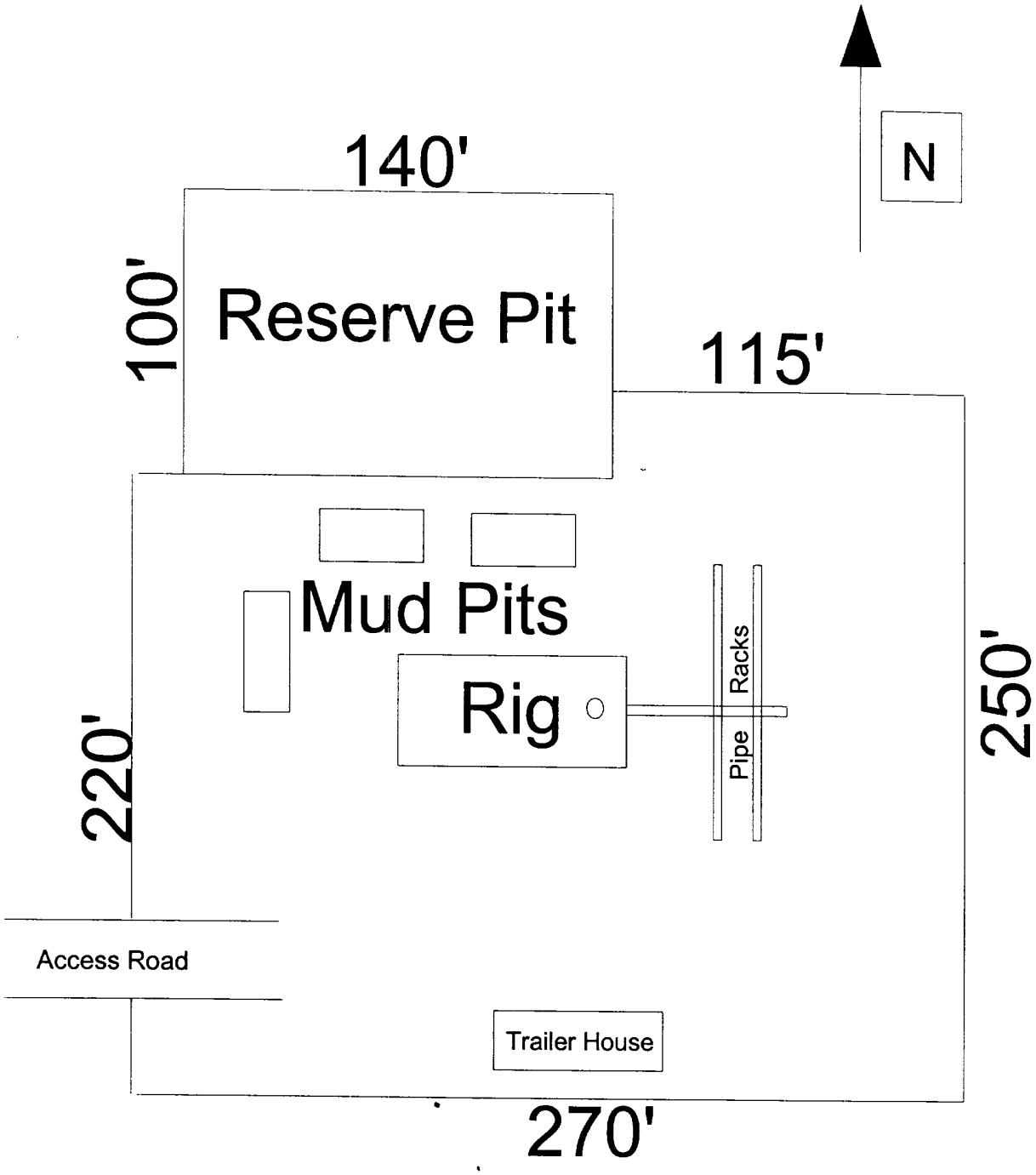
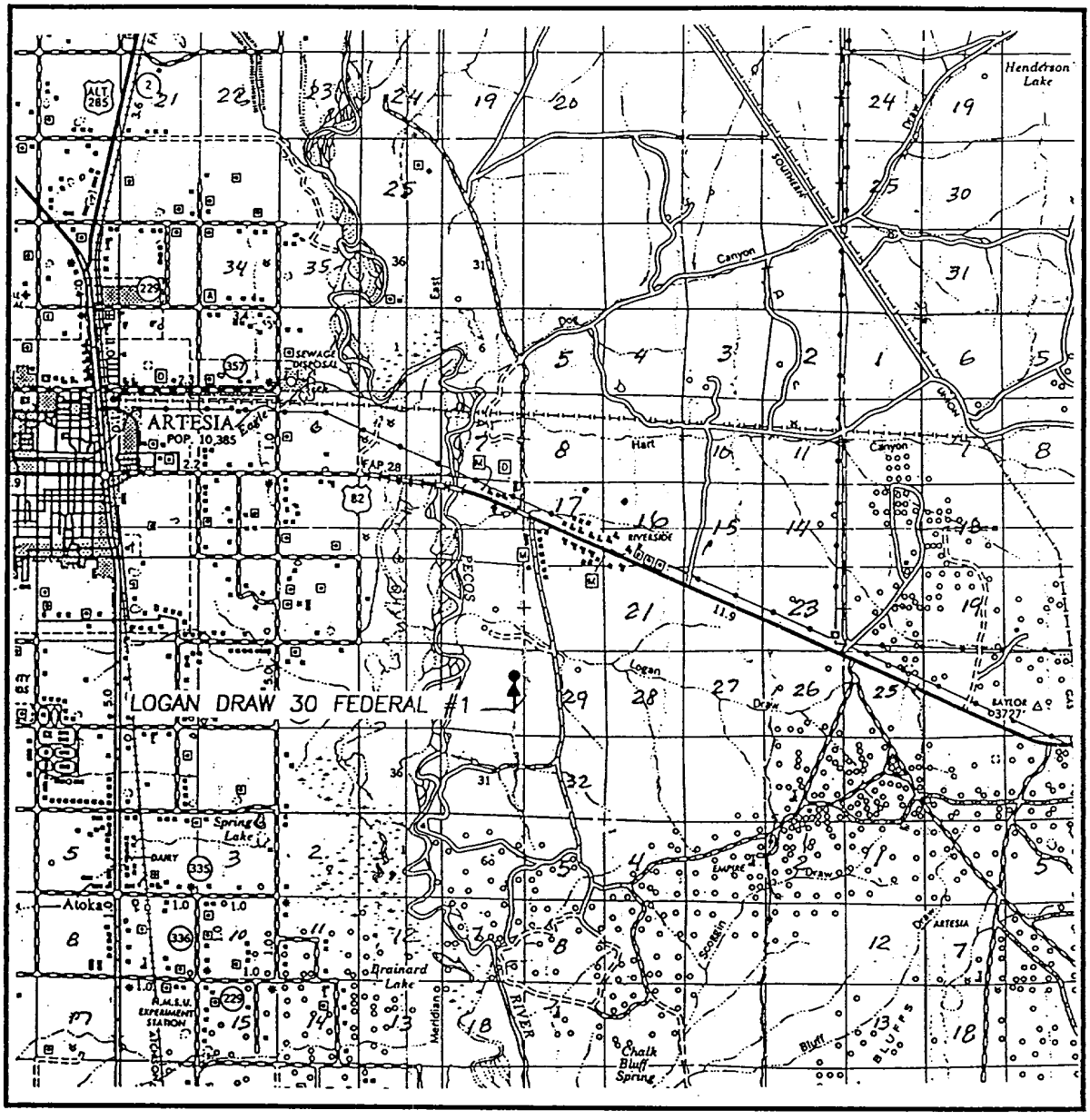


EXHIBIT B
DRILLING RIG LAYOUT
NEARBURG PRODUCING COMPANY
Logan Draw 30 Federal 1
SCALE 1" = 50'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 30 TWP. 17-S RGE. 27-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1650' FNL & 660' FEL

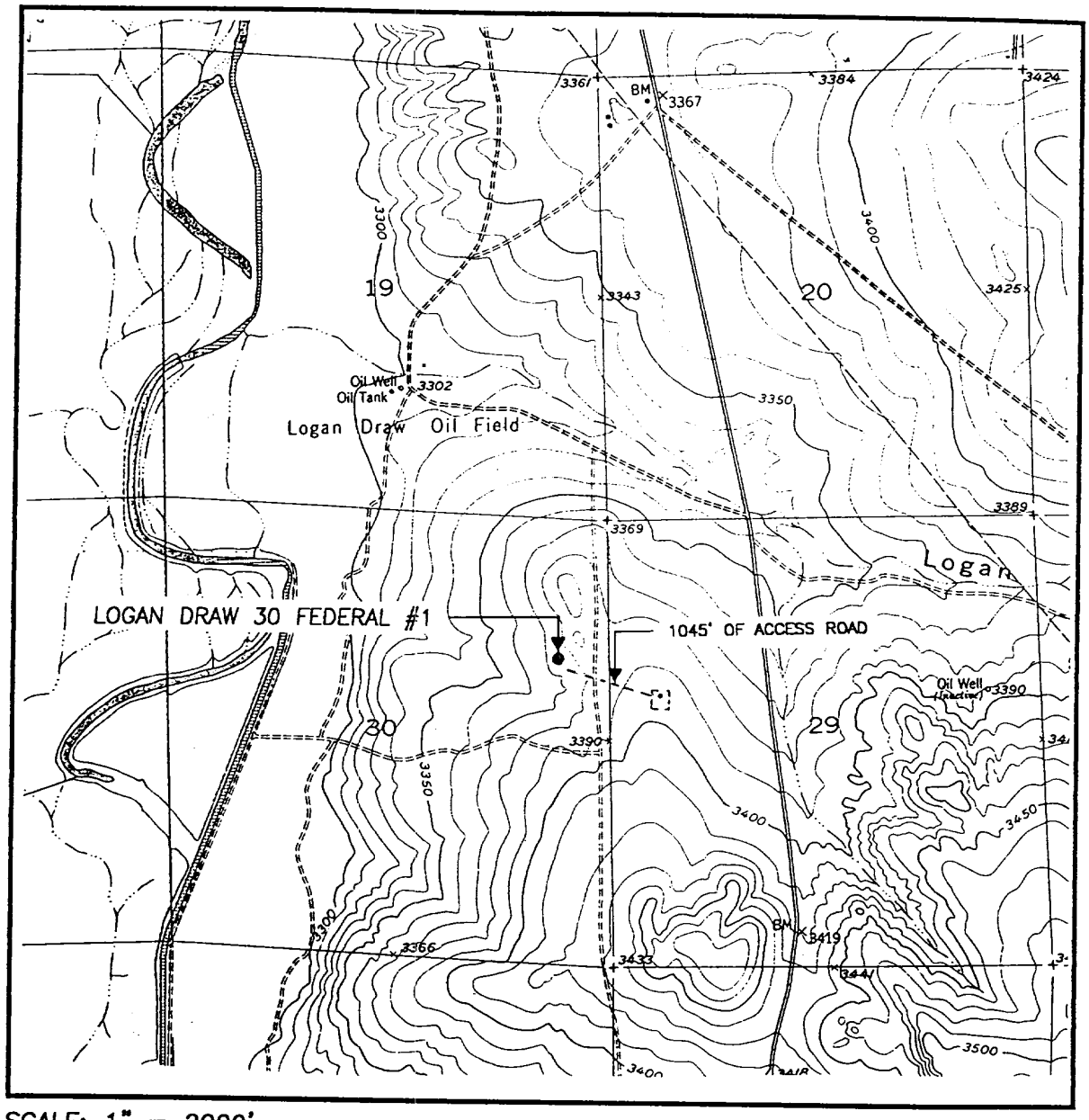
ELEVATION 3383

OPERATOR NEARBURG PRODUCING CO.

LEASE LOGAN DRAW 30 FEDERAL

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

LOCATION VERFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
SPRING LAKE, N.M.– 10'

SEC. 30 TWP. 17–S RGE. 27–E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1650' FNL & 660' FEL

ELEVATION 3383

OPERATOR NEARBURG PRODUCING CO.

LEASE LOGAN DRAW 30 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
SPRING LAKE, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393–3117

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

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
	80400	Logan Draw Morrow

Property Code	Property Name	Well Number
	LOGAN DRAW 30 FEDERAL COM	1

OGRID No.	Operator Name	Elevation
15742	NEARBURG PRODUCING COMPANY	3383

Surface Location

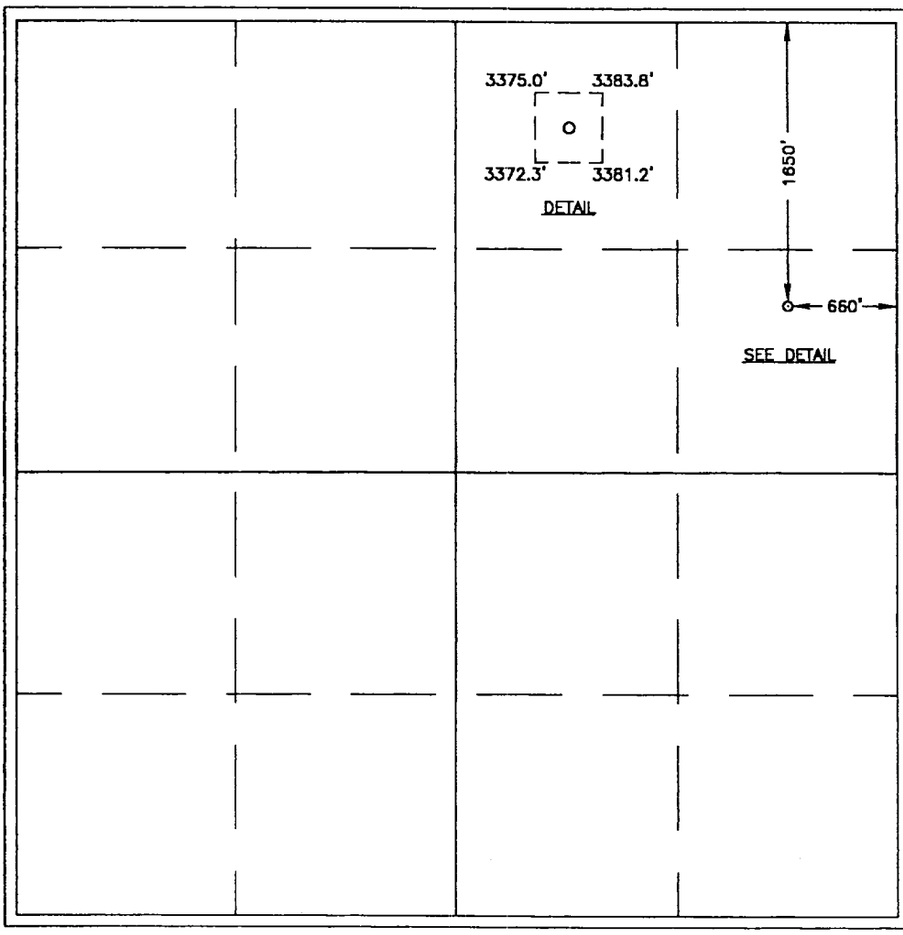
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	30	17 S	27 E		1650	NORTH	660	EAST	EDDY

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	Joint or Infill	Consolidation Code	Order No.
320	N		

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.

Signature

H.R. Willis
Printed Name

Drlg Superintendent
Title

February 2, 2000
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 supervison, and that the same is true and correct to the best of my belief.

DECEMBER 8, 1999
Date Surveyed LMP

Signature & Seal of Professional Surveyor

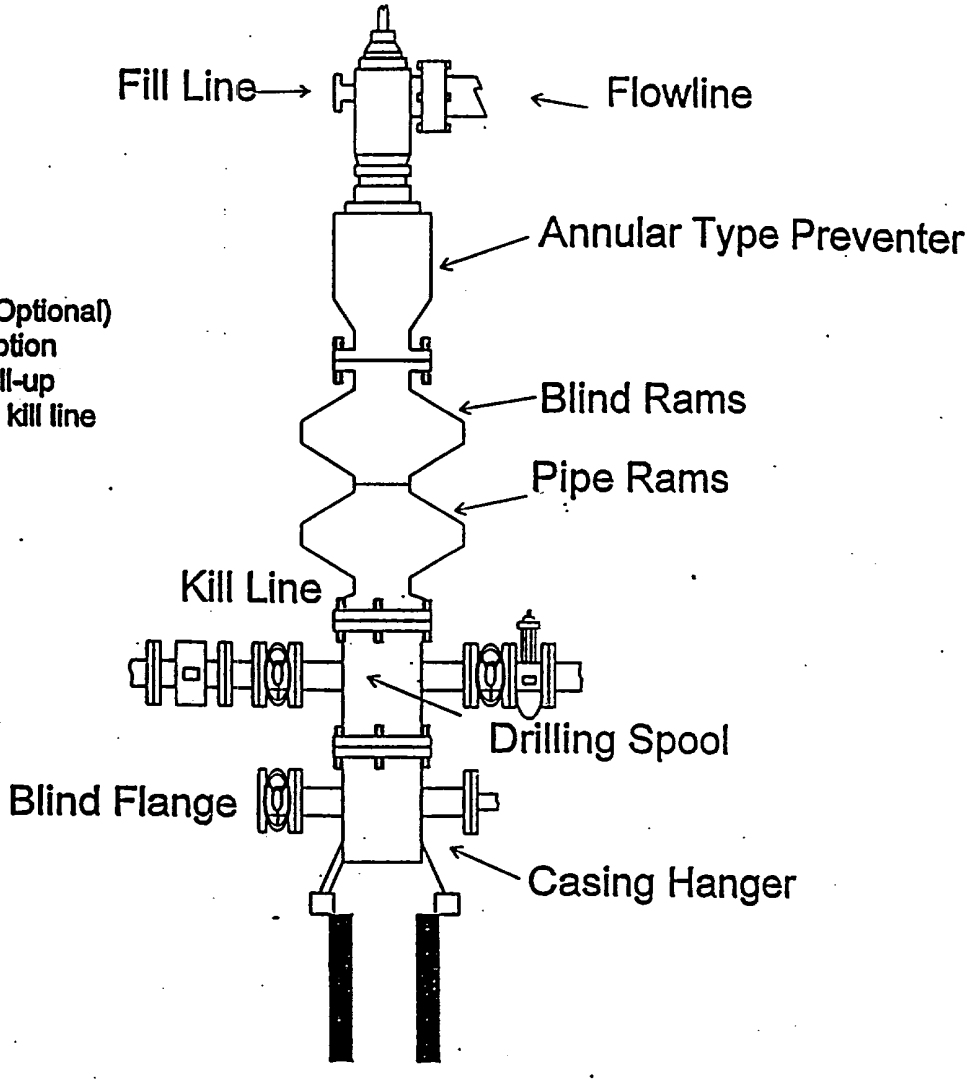
RONALD J. EIDSON NEW MEXICO 3239 REGISTERED PROFESSIONAL SURVEYOR

12-13-99

(99-11-1084)

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641
MACON McDONALD 12185

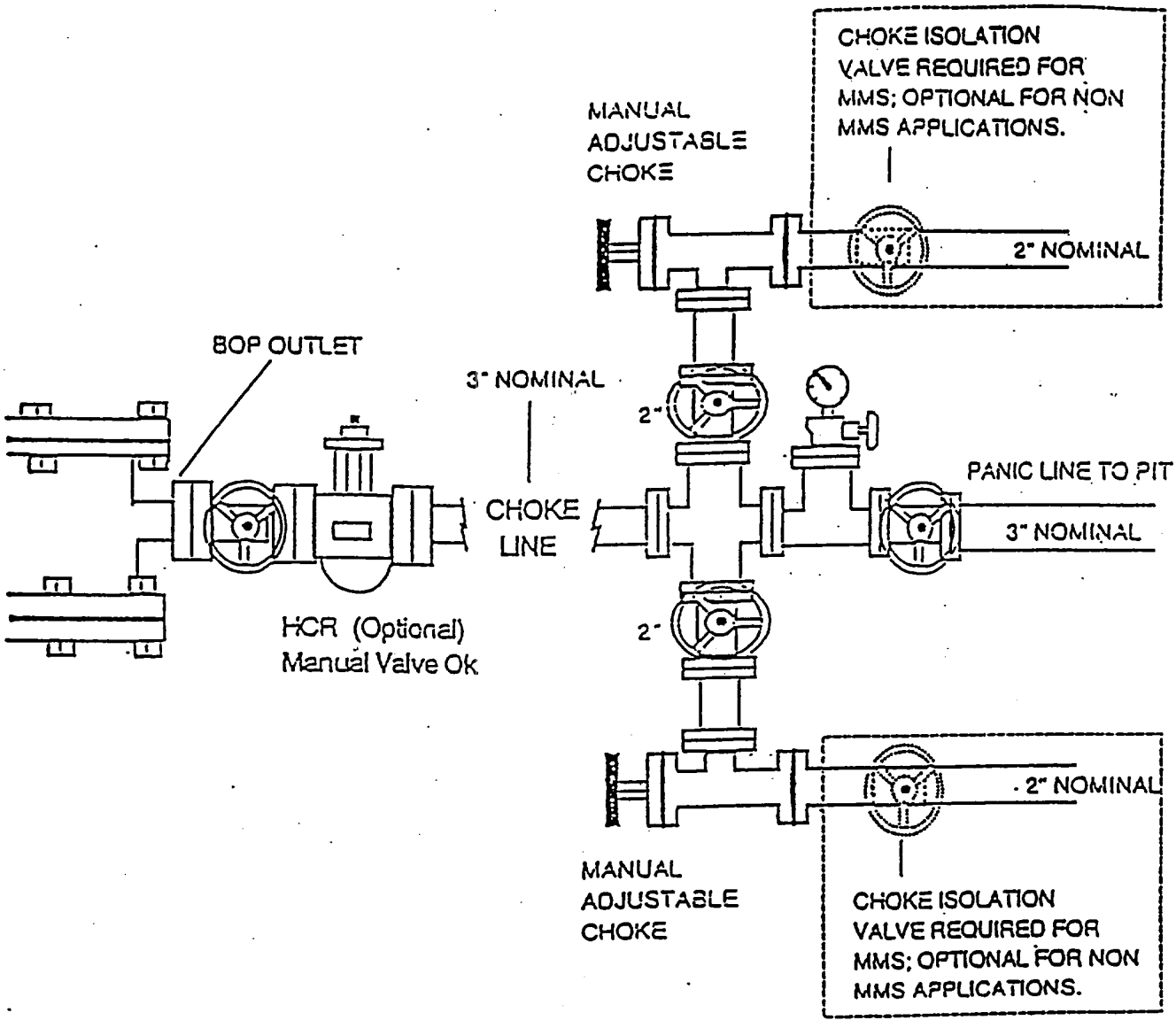
NEARBURG PRODUCING COMPANY
BOPE SCHEMATIC



Rotating Head (Optional) Drilling Nipple option must include a fill-up line. Do not use kill line for fill up.

1500 Series

NEARBURG PRODUCING COMPANY
CHOKE MANIFOLD
5M SERVICE



HYDROGEN SULFIDE DRILLING OPERATIONS PLANS
NEARBURG PRODUCING COMPANY
LOGAN DRAW 30 FEDERAL COM #1

1. HYDROGEN SULFIDE TRAINING

   A. All regularly assigned personnel, contracted or employed by Nearburg Producing Company, will receive training from a qualified instructor in the following areas prior to commencing drilling potential hydrogen sulfide bearing formations in this well:

      1. The hazards and characteristics of hydrogen sulfide (H2S).

      2. The proper use and maintenance of personal protective equipment and life support systems.

      3. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.

      4. The proper techniques for first aid and rescue procedures.

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

      1. The effects of H2S 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 of the H2S Drilling Operations Plan.

   C. There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S 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 H2S.

A. Well Control Equipment:

1. Flare line with continuous pilot.

2. Choke manifold with a minimum of one remote choke.

3. Blind rams and pipe rams to accommodate all sizes with properly sized closing unit.

4. Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head and flare gun with flares as needed.

B. Protective Equipment for Essential Personnel:

Mark II Surviveair 30-minute units located in the dog house and at briefing areas, as indicated on well site diagram.

C. H2S Detection and Monitoring Equipment:

1. Two portable H2S monitors positioned and location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

2. One portable SO2 monitor positioned near flare line.

D. Visual Warning systems:

1. Wind direction indicators as shown on well site diagram.

2. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate. See example attached.

E. Mud Program

1. The Mud Program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weights, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

2. A mud-gas separator will be utilized as needed.

F. Metallurgy

All drill strings, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and line and valves shall be suitable for H2S service.

G. Communication

1. Cellular telephone communications in company vehicles and mud logging trailer.

2. Land line (telephone) communications at area office.

H. Well Testing

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 in an H2S environment will be conducted during the daylight hours.

WARNING

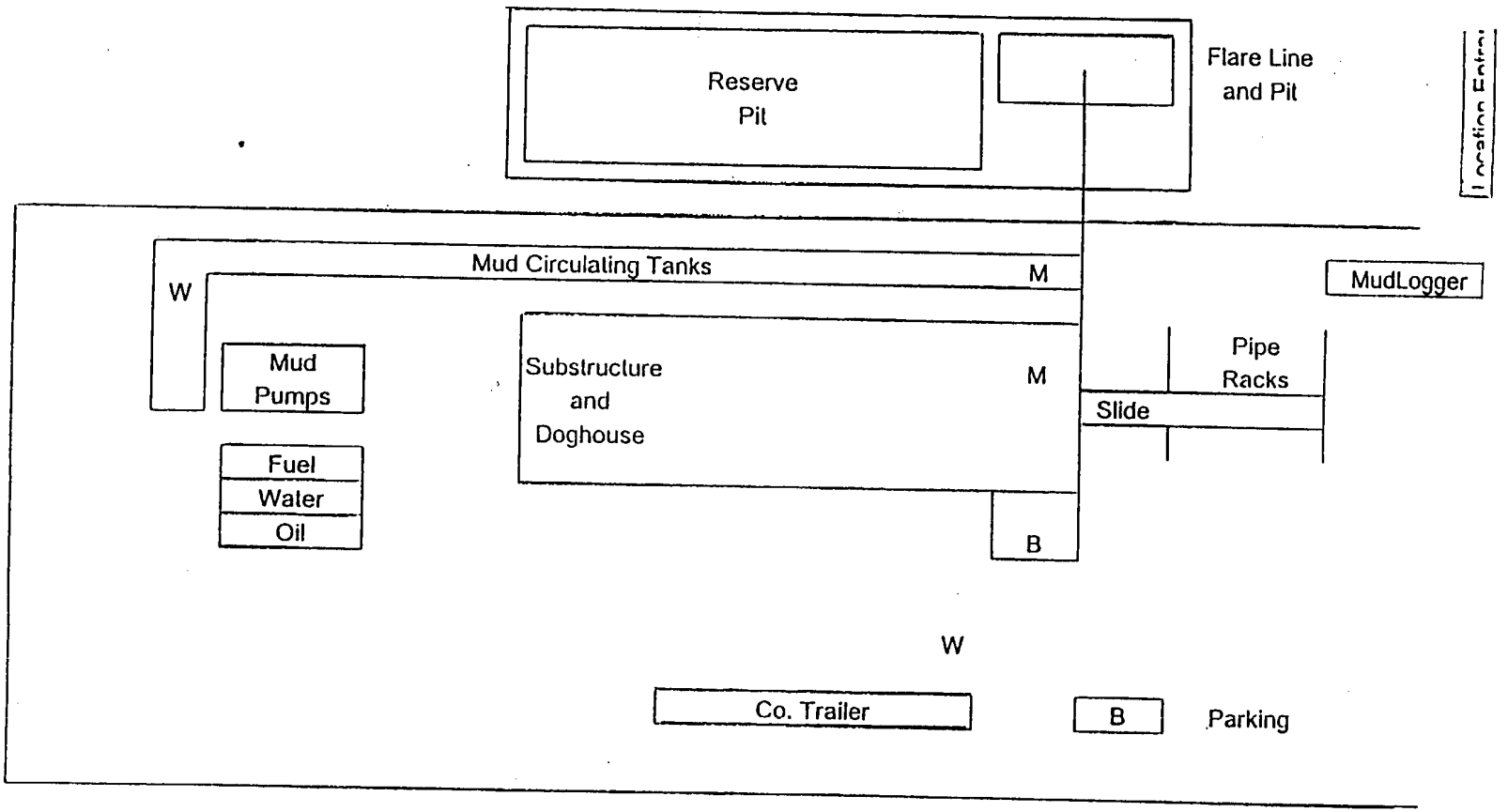
YOU ARE ENTERING A H2S AREA
AUTHORIZED PERSONNEL ONLY

1. BEARDS OR CONTACT LENSES NOT ALLOWED
2. HARD HATS REQUIRED
3. SMOKING IN DESIGNATED AREAS ONLY
4. BE WIND CONSCIOUS AT ALL TIMES
5. CHECK WITH NEARBURG SUPERINTENDENT AT MAIN OFFICE

NEARBURG PRODUCING COMPANY

(915) 686-8235

NEARBURG PRODUCING COMPANY
HYDROGEN SULFIDE DRILLING OPERATIONS LOCATION PLAN



M - H2S Monitors with alarms at bell nipple and shale shaker

W - Wind Direction Indicators

B - Safe Briefing areas with caution signs and protective breathing equipment. Minimum 150' from wellhead.

Prevailing Wind Directions: Summer - South/Southwest
Winter - North/Northwest