

UNITED STATES ARTESIA, NM 88210
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL



DEEPEN



b. TYPE OF WELL

OIL



GAS



OTHER

SINGLE



MULTIPLE



2. NAME OF OPERATOR

CHEVRON U.S.A. INC.

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 1150, MIDLAND, TX 79702 ATTN: RORY MATTHEWS (915) 687-7812

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

At surface 1850' FNL & 990' FEL

At proposed prod. zone

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

8 MILES NORTHEAST OF LOVING

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any) 990'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED, N/A
OR APPLIED FOR, ON THIS LEASE, FT.

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

GLE: 3079.7'

23.

PROPOSED CASING AND CEMENT CARLSBAD CONTROLLED WATER BASIN				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	M-50, 8 5/8"	23 #	450'	CIRCULATED
7 7/8"	K-55, 5 1/2"	15.5 #	7000'	CIRCULATED

MUD PROGRAM: 0'-450' FRESH WATER SPUD MUD.
450'-7000' BRINE WATER STARCH 10#.

SECRETARY'S POTASH

BOPE EQUIPMENT: 2000 PSI WORKING PRESSURE, SEE ATTACHED CHEVRON CLASS II BOP DRAWING.

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 production 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 R.R. Matthews TITLE TECHNICAL ASSISTANT

DATE 6/4/93

(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

TITLE

DATE

*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.

JUL 12 1993

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

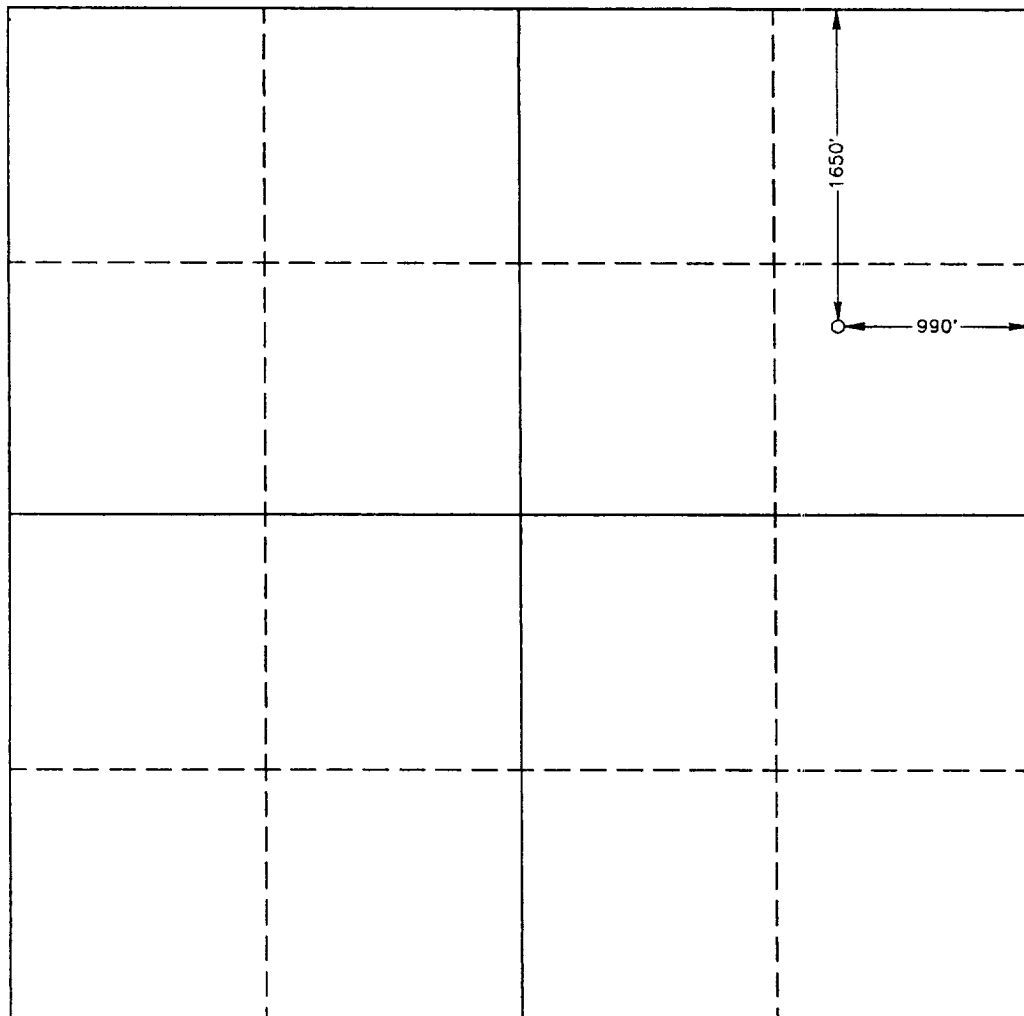
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator CHEVRON USA INC.			Lease LENTINI "1" FEDERAL		Well No. 8
Unit Letter H	Section 1	Township 23 SOUTH	Range 28 EAST	NMPM	County EDDY
Actual Footage Location of Well: 1650 feet from the NORTH line and 990 feet from the EAST line					
Ground Level Elev. 3079.7'	Producing Formation DELAWARE		Pool HERRADURA BEND EAST		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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
P.R. Matthews
Printed Name
P.R. MATTHEWS
Position
TECHNICAL ASSISTANT
Company
CHEVRON U.S.A. INC.
Date
6-4-93

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 knowledge and
belief.

Date Surveyed
MAY 7, 1993
Signature & Seal of
Professional Surveyor
Gary L. Jones
Certificate No. **7977**
GARY L. JONES
NEW MEXICO
REGISTERED SURVEYOR
7977

93-11-0742



Chevron U.S.A. Production Company
P.O. Box 1150, Midland, TX 79702

June 4, 1993

Application for Permit to Drill
Proposed Lentini Federal 1
Well # 8
Eddy County, New Mexico

Bureau of Land Management
P. O. Box 1778
Carlsbad, NM 88220

Gentlemen:

We are submitting the information requested in NTL-6 which should accompany application for permit to drill.

Well: Lentini Federal 1 Well # 8

1. **Location:** 1650' FNL & 990' FEL Section 1, T-23-S, R-28-E
 Eddy County, New Mexico
2. **Elevation of unprepared ground:** 3079.7'
3. **Geologic Name of Surface Formation:** Quaternary-Alluvium
4. **Type Drilling Tools:** Rotary
5. **Proposed Drilling Depth:** 7,000'
6. **Estimated Top of Geologic Markers:**

Top of Salt	320'	
Delaware	2,740'	Delaware Pay 5,900'
Bone Springs	6,280'	
7. **Estimated Depths at which target Formations Expected:**

Delaware	5,900'
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8. **Casing Program and Setting Depths:**

	Size	Weight	Grade	Setting Depth
Surface	8 5/8"	23#	M-50	450'
Production	5½"	15.50#	K-55	7,000'

9. **Casing Setting Depths and Cementing Program:**

- A. Surface casing will be cemented to surface using Class "C" cement. Exact volumes and additives will be based on severity of lost returns historically experienced in this area. Top jobs will be performed as necessary to bring cement to surface.
- B. Production casing will be cemented to surface with Class "C" cement. If cement is not circulated a temperature survey will be run to determine cement top.

10. **Prior to drilling below surface and intermediate casing, a BOP hook-up for 2,000 psi will be installed.**

11. **Circulating Media:**

0 - 450'	FW Spud Mud
450'- 7,000'	10ppg BW

12. **Testing, Logging, and Coring Program**

- A. Open hole logs will be run at total depth.
- B. No coring is planned.

13. **Abnormal Pressure or Temperature and Hydrogen Sulfide Gas:**

- A. No abnormal pressure or temperature is anticipated; however, BOP's, as specified in item 10 above will be installed.

14. **Anticipated Starting Date:**

Drilling operations should begin upon approval of this permit.



Chevron U.S.A. Production Company
P.O. Box 1150, Midland, TX 79702

June 4, 1993

Bureau of Land Management
P. O. Box 1778
Carlsbad, NM 88220

Gentlemen:

The following is Chevron U.S.A. Inc.'s plan for surface use restoration associated with the drilling of our Lentini Federal 1 Well # 8, to be located 1650' FNL & 990' FEL line of Section 1, T-23-S, R-28-E, Eddy County, New Mexico.

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible. Any unguarded pits containing fluids will be fenced until they are filled.

After abandonment of the well, surface restoration will be in accordance with the agreement with the surface owner. Pits will be filled and the location will be cleaned. The pit area, well pad, and all unneeded access road will be ripped to promote revegetation. Rehabilitation should be accomplished within ninety (90) days after abandonment.

Yours very truly,

A handwritten signature in black ink that reads "P.R. Matthews".

P.R. Matthews
Drilling Technical Assistant

PRM/prm

MULTI-POINT SURFACE USE LENTINI FEDERAL 1-8

1. **Existing Road**

To reach proposed location start at Loving & go East on highway 31 approximately 7 miles turn north on county road 605, turn west and go 1/2 mile to well.

Exhibit A

2. **Planned Access Roads**

See attached Sundry notice.

3. **Location of Existing Wells**

Exhibit B shows existing wells within a one mile radius of proposed well.

4. **Location of Production Facilities**

Surface Facility for all wells have been filed on separate Sundry notice dated 4-16-93.

To protect livestock and wildlife, the reserve pit will be fenced.

Upon completion of drilling, the location and surrounding area will be cleared of all debris. All trash will be disposed of in the trash bin.

5. **Water Supply**

Water for drilling and completion operations will be purchased from a supplier and transported to the well site by truck.

6. **Source of Construction Materials**

All caliche required for construction of the drill pad and the proposed access road will be obtained from a BLM - approved caliche pit. All roads and pads will be constructed of 6" of rolled and compacted caliche.

7. **Methods of Handling Waste Disposal**

- A. The drill cuttings, fluids, and completion fluids will be placed in the reserve pit. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side as soon as the rig moves out. The reserve pit will be allowed to dry. Reserve pit contents will be pushed into adjacent caliche pit and covered with location top soil.

Upon completion, the pad will be leveled, contoured and reseeded with the appropriate seed mixture.

- B. All garbage and trash will be placed in a trash container to be hauled off location.
- C. Chemical toilets will be provided and maintained during drilling operations. See Exhibit C for location.

8. **Ancillary Facilities**

No ancillary facilities are planned.

9. **Well Site Layout**

Location of drilling equipment, rig orientation, and access road is shown on Exhibit C.

The reserve pit will be lined with plastic to prevent liquids from soaking into the surrounding soil.

10. **Plans for Restoration of Surface**

When well is abandoned, the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with the appropriate seed mixture.

If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted the color designated by the Bureau of Land Management.

11. **Surface Ownership**

Surface ownership is Federal Lands.

12. **Other Information**

Refer to the archaeological report performed under BLM Special Use Permit No. 3-2920-92-U for a description of the topography, flora, fauna, soil characteristics, dwellings, historical, and cultural sites.

13. **Lessee's or Operators Representative**

P.R. Matthews
P. O. Box 1150
Midland, TX 79702

14. **Certification**

I hereby certify that I, or a Chevron representative, have inspected the proposed drillsite and access route; 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 Chevron U.S.A. Inc., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



P.R. Matthews
Drilling Technical Assistant

PRM/prm

Attachments

H₂S DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Chevron U.S.A. Inc. will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. Safety precautions
3. Operations of safety equipment and life support systems

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

1. The effect of H₂S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H₂S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

- A. Wind direction indicators as seen in attached diagram.
- B. Automatic H₂S detection alarm equipment (both audio and visual).
- C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS" and "CAUTION" with a strong color contrast.
- D. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached diagram.

2. Well Control Systems

- A. Blowout Prevention Equipment

Equipment includes but is not limited to:

- a. pipe rams to accommodate all pipe sizes
- b. blind rams
- c. choke manifold
- d. closing unit

Auxiliary equipment added as appropriate includes:

- a. annular preventor
- b. rotating head
- c. mud-gas separator
- d. flare line and means of ignition
- e. remote operated choke

✓
NA
N/A
N/A
N/A

B. Communication

The rig contractor will be required to have two-way communication capability. Chevron U.S.A. Inc. will have either land-line or mobile telephone capabilities.

C. Mud Program

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

D. No Drill Stem Tests are planned.

III. WELL SITE DIAGRAM

A complete well site diagram including the following information is attached.

- 1. Rig orientation
- 2. Briefing areas
- 3. Ingress and egress
- 4. Pits and flare lines
- 5. Caution and danger signs
- 6. Wind indicators and prevailing wind direction

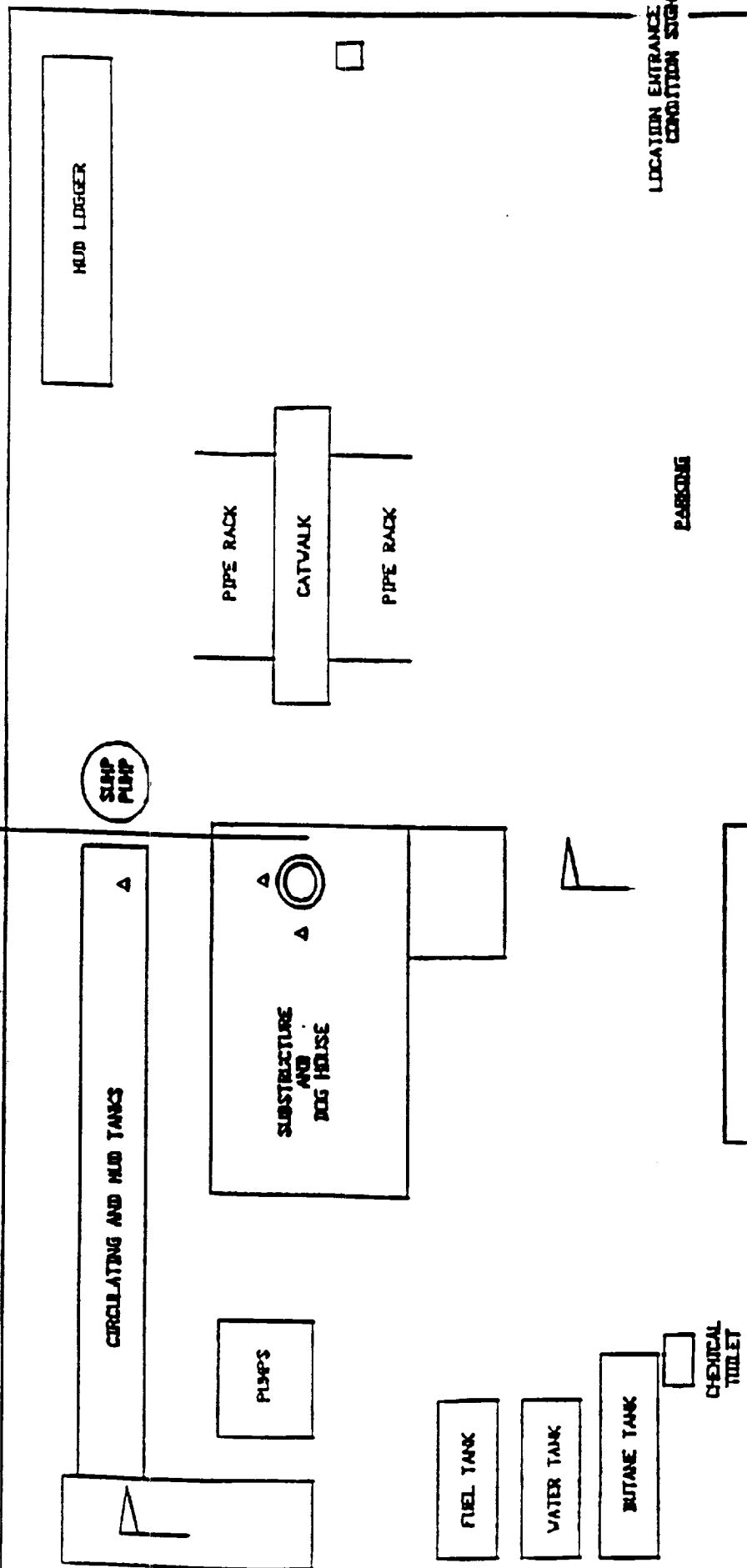
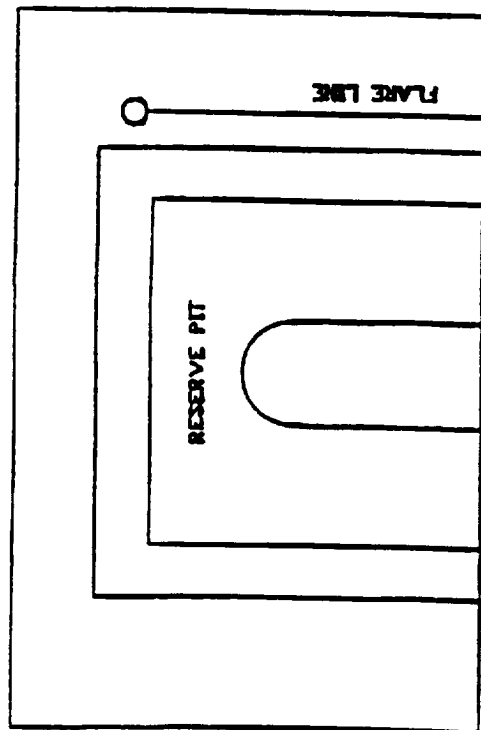
PREVAILING WIND DIRECTION

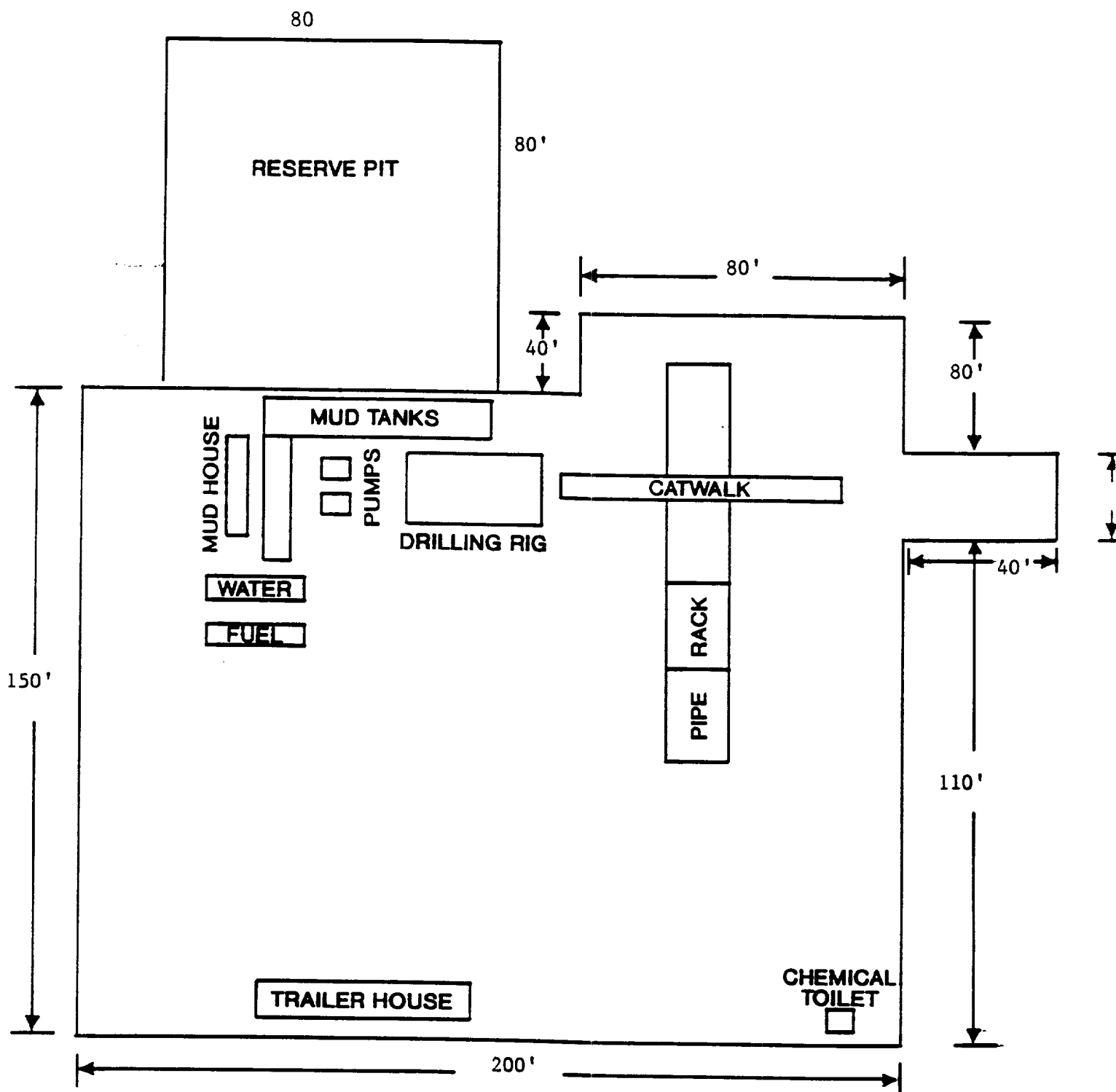
SUMMER — SOUTH
WINTER — NORTHEAST
V DIRECTION — FACING EAST

△ ALARM ON BIG FLOOR WITH SENSORS
AT THE FLOOR BELL NOZZLE & SHAKER

▽ WIND DIRECTION INDICATORS

□ SAFE BRIEFING AREAS WITH CAUTION SIGNS AND
PROTECTIVE BREATHING EQUIPMENT





CHEVRON USA INC.
EXHIBIT "C"

Well Name & Number: Lentini Federal 1-8

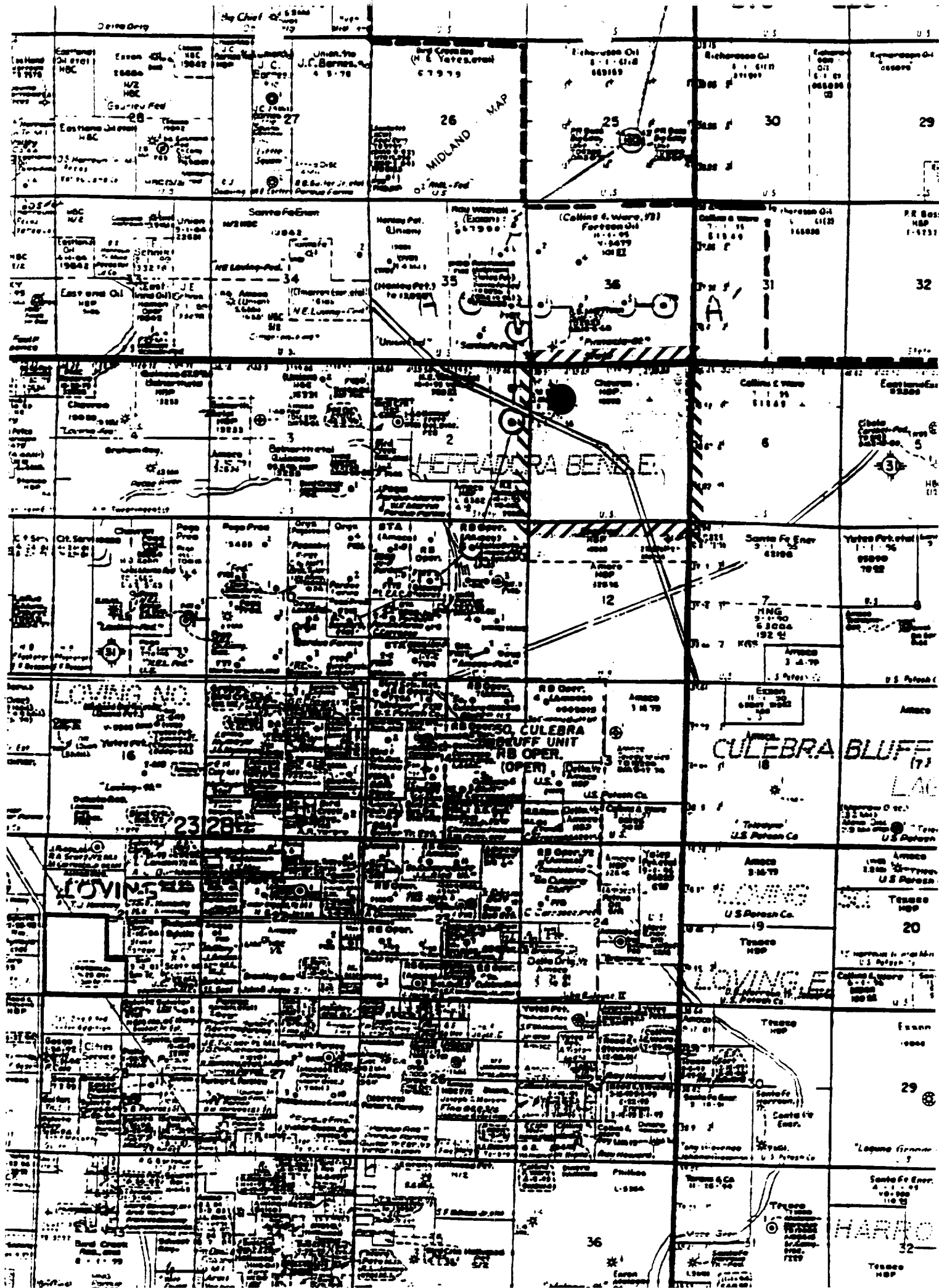
Location: 1650' N L & 990' E L

Section: 1 **Unit:**

Township: 23S **Range:** 28E

Eddy **County, New Mexico**

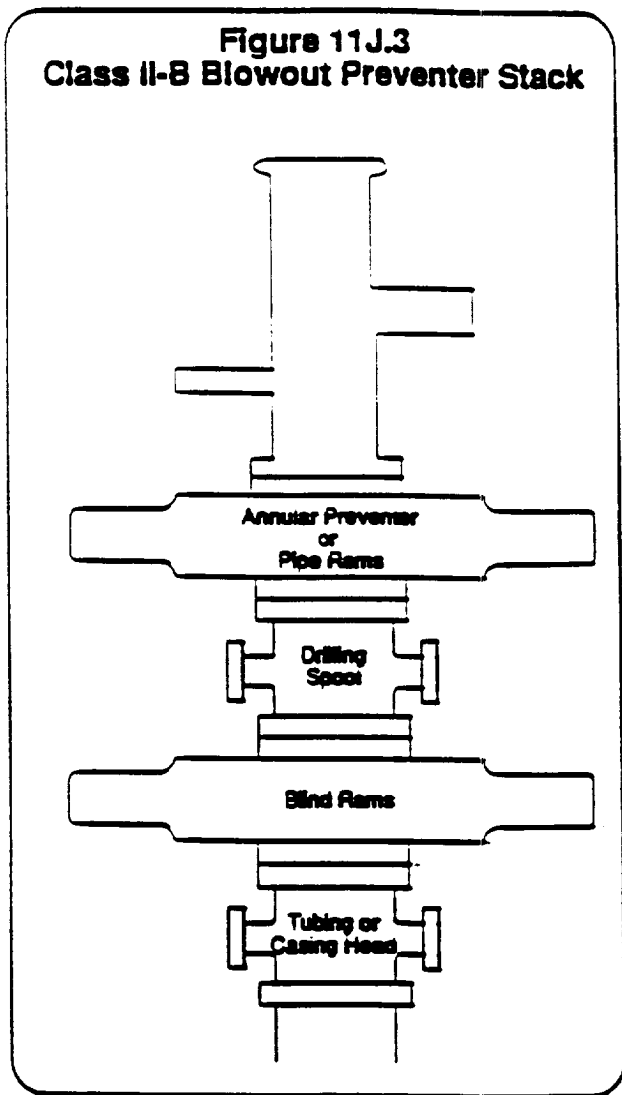
PREPARED BY: Rory Matthews



CHEVRON DRILLING REFERENCE SERIES
VOLUME ELEVEN
WELL CONTROL AND BLOWOUT PREVENTION

D. CLASS II-B BLOWOUT PREVENTER STACK:

Figure 11J.3
Class II-B Blowout Preventer Stack



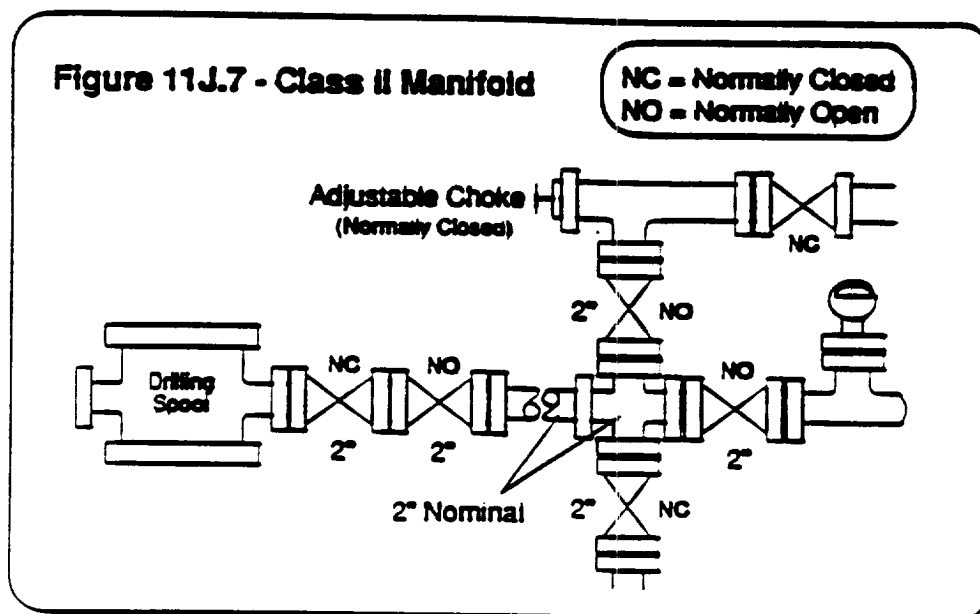
The Class II-B preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a drilling spool, and a single blind ram preventer on bottom. In an alternate configuration, a single pipe ram preventer may be substituted for the annular preventer. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". An emergency kill line may be installed on the wellhead. As the maximum anticipated surface pressure of this stack is less than 2000 psi, screwed connections may be used. All components must be of steel construction. The Class II-B blowout preventer stack is shown to the left in Figure 11J.3.

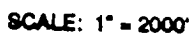
CHEVRON DRILLING REFERENCE SERIES
VOLUME ELEVEN
WELL CONTROL AND BLOWOUT PREVENTION

C. CLASS II CHOKE MANIFOLD

The Class II choke manifold is suitable for all Class II workovers and drilling operations. The Class II choke manifold is shown below in Figure 11J.7. Specific design features of the Class II choke manifold include:

1. The manifold is attached to the tubing/casing head when a Class II-A preventer stack is used. This hook-up is only recommended for Class II workover operations.
2. The manifold is attached to a drilling spool or top ram preventer side outlets when a Class II-B preventer stack is in use.
3. The minimum internal diameter is 2" (nominal) for outlets, flanges, valves and lines.
4. Includes two steel gate valves in the choke line at the wellhead/drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).
5. Includes one manually adjustable choke which is installed on the side of the manifold cross. Steel isolation gate valves are installed between the choke and the cross, and downstream of the choke.
6. Includes one bleed line installed on the side of the manifold cross which is isolated by a steel gate valve.
7. Includes a pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.
8. Screwed connections may be used in lieu of flanges or clamps.





CONTOUR INTERVAL 10'

SURVEY N.M.P.M.

DESCRIPTION 1650' FNL & 990' FEL

ELEVATION 3079.7'

LEASE Lentini "1" Federal #8

Loving, NM



LEASE Lentini "1" Federal #8