

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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 ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

C. W. Trainer

## 3. ADDRESS OF OPERATOR

c/o Oil Reports and Gas Services, P.O. Box 763, Hobbs NM 88240

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

At surface

660' FSL &amp; 1980' FEL of Section 1

At proposed prod. zone

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

26 miles West Hobbs, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

660'

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1320'

## 16. NO. OF ACRES IN LEASE

320

## 19. PROPOSED DEPTH

15,000

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3766.3 GR

## 22. APPROX. DATE WORK WILL START\*

1/31/78

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

See attachments for details of casing program,  
blow out preventors, mud and other operations.

CONDITIONS OF APPROVAL

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

*W. H. H. H.*

TITLE

Agent

DATE

12/20/78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED  
AS AMENDED

JAN 18 1978

ARTHUR R. BROWN  
DISTRICT ENGINEER

\*See Instructions On Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate of on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

C. W. Trainer		Lease		Pennzoil Federal		Well No. 1	
Section	1	Township	19 South	Range	33 East	County	Lea
Distance from well	660	Line and	South	1980	East	Line	
Distance from well	3766.3	Devonian	Wildcat			Dedicated Acreage:	40 Acres

Outline the acreage dedicated to the subject well by colored pencil or hatch marks in the plat below.

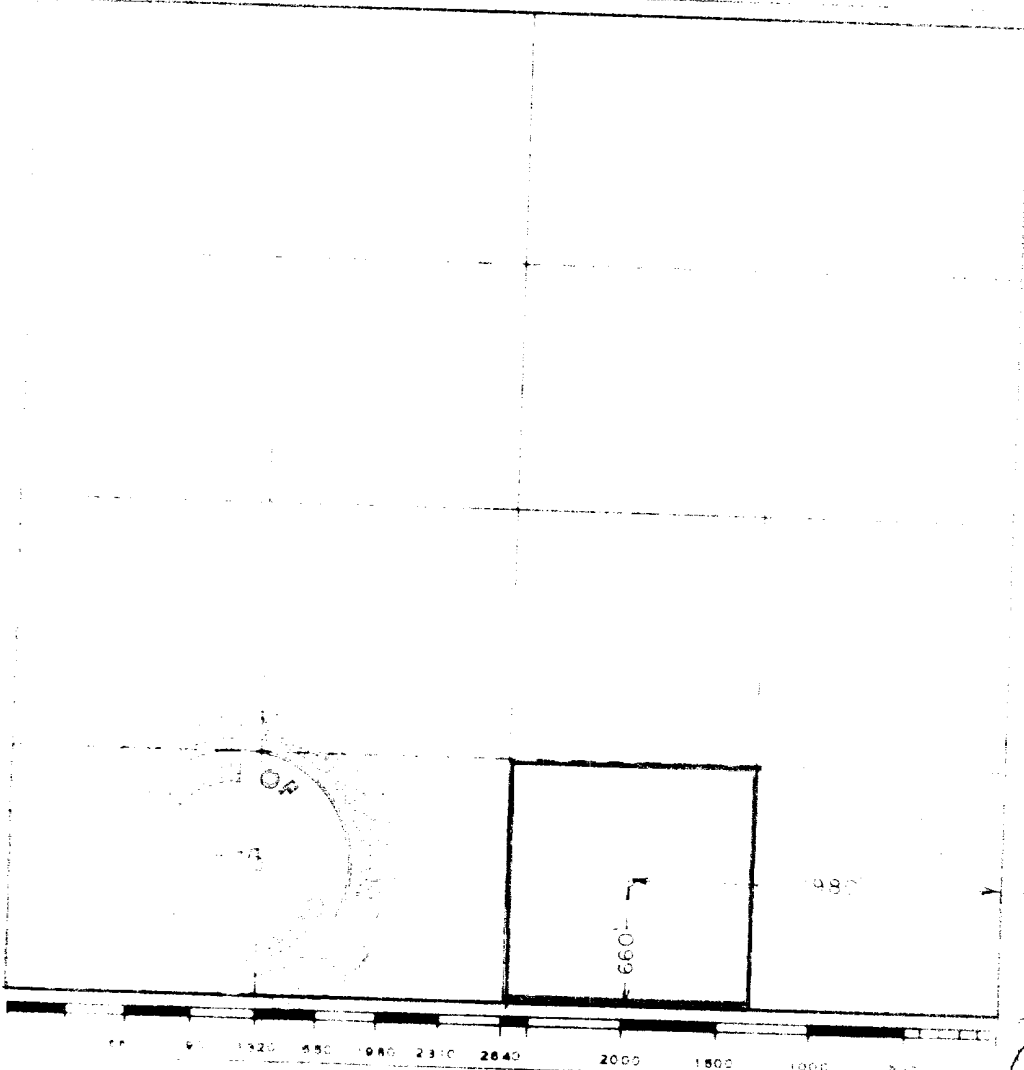
If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

If more than one lease of different ownership is dedicated to the well, have the interests 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 the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary) \_\_\_\_\_

Available will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Donna Holles*

Agent

C. W. Trainer

December 20, 1977

I hereby certify that the well location shown on this plat was plotted from field notes, or 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.

December 14, 1977

*John W. West*

C. W. Trainer

Pennzoil Federal No. 1

660' FSL & 1980' FEL of Sec. 1, T19S, R33E, Lea County, New Mexico  
NM-4312

1. Surface formation: Quaternary Alluvium
2. Estimated tops of geologic markers:
  - Base Salt 2900
  - San Andres 5000
  - Bone Spring 7400
  - Wolfcamp 10,600
  - Morrow 13,400
  - Devonian 14,800
3. Estimated depth of mineral bearing formations:
  - Fresh water 100 to 700
  - Bone Spring - oil 7400
  - Morrow - gas 13,400
  - Devonian - oil 14,800

4. Casing program:

Hole Size	Size of Casing	Weight Per Ft.	Cond	Grade	Depth	Sacks Cement
17 1/2	13 3/8	48#	New	H-40	350	350
12 1/4	5/8	24# & 32#	New	J-55	4,500	1000 - DV collar @ 1360
7 7/8	5 1/2	17# & 20#	New	N-80	15,000	500

5. Blowout preventers: One 10" x 1500 series Shaffer LWS hydraulic double and one Hydril 10" x 1500 series as per attached diagram. Pipe rams to be activated at least once each 24 hours and blind rams each time the drill pipe is out of the hole.
6. Mud program:
  - 0-350 - Spud mud consisting of Bentonite flocculated with lime.
  - 350-4500 - Fresh water with soils control by circulating through the reserve pit, other mud properties as required.
  - 3400-10,000 - Fresh water and lime with lost circulation material as needed.
  - 10,000-13,000 - 10# brine water with lost circulation material as needed.
  - 13,000-TD - 10# brine water circulating through steel pits. Mud up with Drispac. Properties should be viscosity 34-36, weight 9.8 - 10 ppg, filter loss below 10 cc and ph 10. If higher than anticipated pressures are encountered, increase weight with Baroid and viscosity with Baroco clay and Flosal.
7. Auxiliary equipment: Mud monitoring equipment to record pit level, measure mud volume and a flow sensor; kelly valve; safety sub with full opening valve; drill pipe float valve.
8. Logging & testing: All shows will be drillstem tested. It is anticipated that the Bone Spring, Morrow and Devonian will be tested. Logs to consist of Neutron-formation Density and Dual induction Laterolog.
9. Anticipated pressures and potential hazards: Prior wells drilled in the area indicate that maximum pressure will be 6500 psi and that hydrogen sulfide will not be encountered.
10. Starting date and duration: Starting date to be January 31, 1978 with operation to be completed in 120 days.

## MULTI-POINT SURFACE USE AND OPERATIONS PLAN

C. W. Trainer  
Pennzoil Federal No. 1  
660' FSL & L980' FEL of Section 1, T19S, R33E,  
Lea County, New Mexico  
Federal Lease NM-4312

### 1. Existing Roads:

Exhibit "A" is a portion of United States Geological Survey topographic map showing the location of the proposed well and its relationship to US 62-180. Existing area roads to be utilized are shown in blue and the proposed new road construction is shown in red. The proposed road deviates from the south line of Sections 1 and 6 in order to bypass large sand dunes.

Existing area roads will be repaired where needed. Repairs will consist of blading and watering.

### 2. Planned Access Road:

Length and Width: New road required will be 12 feet wide and 5,800 feet long. Proposed road is shown in red on Exhibit "A". The center line of the proposed road has been staked and flagged with the stakes being visible from any one to the next.

Surfacing Material: Six inches of caliche, watered, compacted and graded.

Maximum Grade: One percent.

Turnouts: Two required; one midway of east-west portion and one midway of north-south portion of road.

Drainage Design: None required.

Culverts: None required.

Cuts and Fills: None required.

Gates and Cattleguards: None required.

### 3. Location of Existing wells:

Exhibit "B" is a portion of a Lea County ownership map showing all existing wells within a radius of 3 miles.

### 4. Location of Existing and/or Proposed Facilities:

There are no existing facilities. If the proposed well is completed for production the tank battery will be located due east of the well and no additional surface disturbance will occur.

5. Location and Type of Water Supply:

Water for drilling will be purchased from Steve Carter at Maljamar and trucked over the roads shown in Exhibit "A". Water for roads and drilling pad will be produced water from Pennzoil Company, Mescalero Ridge Unit No. 1, SW/4 SW/4 Section 20, T19S, R34E.

6. Source of Construction Materials:

Caliche for roads and location pad will be obtained from an existing pit in the NW/4 SE/4 of Section 7, T19S, R34E, on Federal land.

7. Methods of Handling Waste Disposal:

Drill cuttings will be disposed of in the drilling pits.

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

Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.

Current laws and regulations pertaining to the disposal of human waste will be complied with.

Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on the rig layout.

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

8. Ancillary Facilities:

None required.

9. Wellsite Layout:

The rig layout diagram shows the relative location and dimensions of the well pad, mud pits, reserve pit, burn pit, and location of major rig components.

The wellsite will require minor levelling of blow sand. No cuts and fills will be necessary.

The reserve pit will be plastic lined.

10. Plans for Restoration of the Surface:

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 location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluids will be fenced until they are filled.

After abandonment of the well, any special rehabilitation and/or revegetation requirements of the surface management agency will be complied with and accomplished as expeditiously as possible. Weather permitting, all pits will be filled and levelled within 90 days after abandonment.

11. Other Information:

Topography: Land surface is rolling sand dunes. As shown in Exhibit "A" the land slopes to the southwest at about 50 feet per mile.

Soil: Soil is deep sand underlain by clay.

Flora and Fauna: Vegetative cover is sparse and consists of mesquite, shin oak, sage and native grass. Wildlife consists of coyotes, rabbits, rodents, reptiles, dove, quail and crows.

Ponds and Streams: There are no streams, lakes or ponds in the area.

Residences and Other Structures: There are no residences within a radius of 3 miles. Exhibit "B" shows the relative location of pipelines and power lines.

Archeological, Historical and Cultural Sites: None observed in the area.

Land Use: Grazing and hunting in season.

Surface Ownership: The wellsite is on Federal surface.

12. Operator's Representative:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

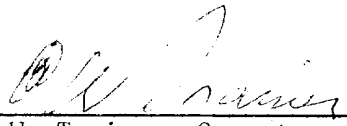
C. W. Trainer  
9205 Highway 71 West  
Austin, Texas 78746  
Phone: 512-288-2613

Marvin C. Gross  
P. O. Box 358  
Roswell, New Mexico 88201  
Phone: 505-623-3539

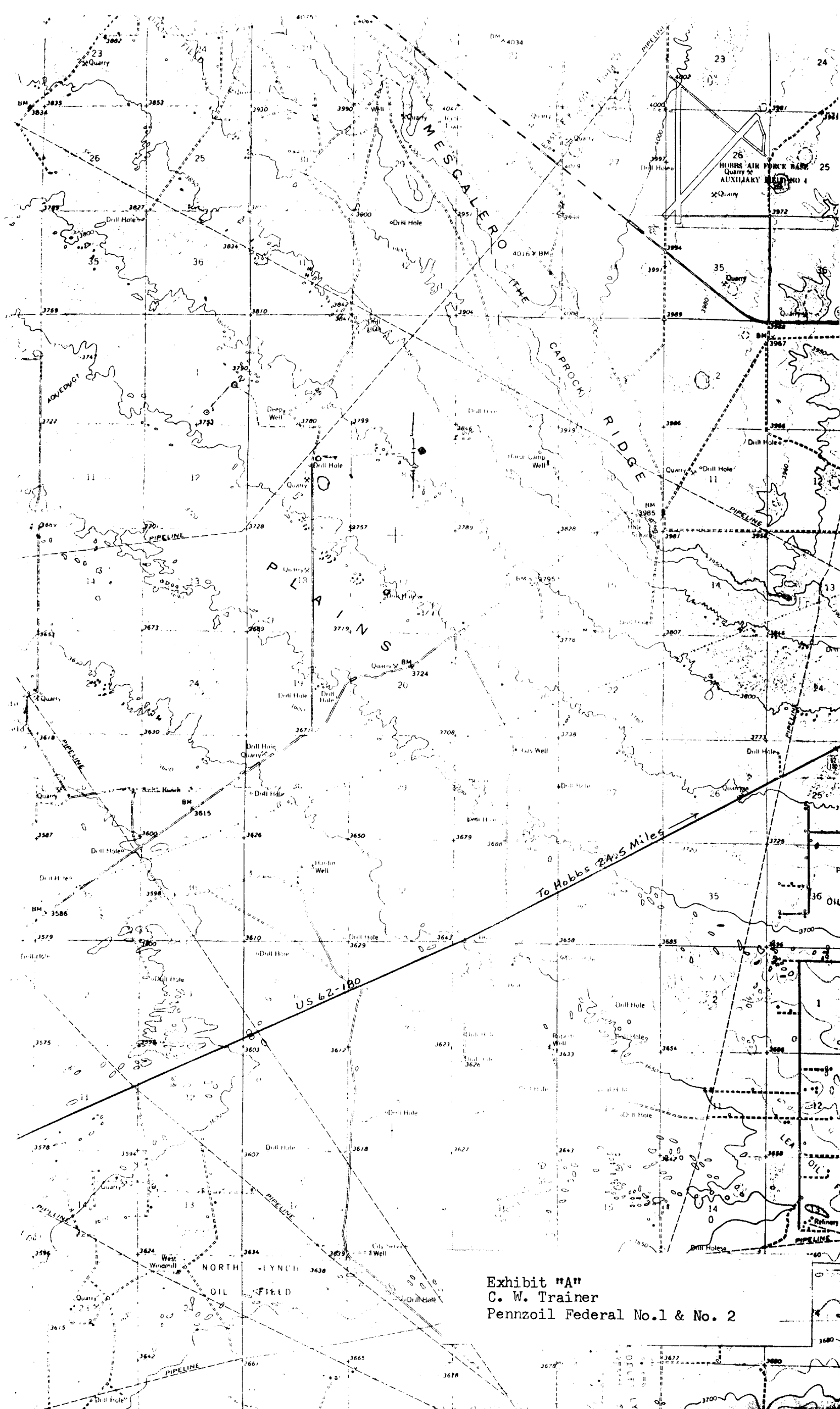
13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 C. W. Trainer and his contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

December 21, 1977

  
C. W. Trainer, Operator





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Exhibit 11B  
C. W. Trainer  
Pennzoil Federal No. 1

## DRAWWORKS

Mid Continent U-712A

Drum: 1¼" Lebus grooved

Compound: 2-engine oil bath chain drive

Brake: Hydromatic Parkersburg 46" Double

## ENGINES

Two 610-H.P. D379TA Caterpillar Diesel

## DERRICK

Lee C. Moore, 131', 550,000 lb. nominal capacity

## SUBSTRUCTURE

Lee C. Moore, 18' high, 550,000 lb. nominal capacity

## MUD PUMPS

Pump No. 1: Emsco F-800 Triplex. 800 H.P. with steel fluid end. 4¾" - 6½" liners, 9" stroke. Compound-drive.

Pump No. 2: Emsco DB550, powered by D379 Caterpillar Diesel.

## DRILL STRING

3000' 4½" Grade E, 20 lb.

Tool Joints: 4½" H-90, 6¼" OD,

12000' 4½" Grade E, 16.60 lb.

Tool Joints: 4" H-90, 6" OD

Thirty Drilco spiral-grooved 6½" OD, 2¼" ID. With 4" H-90 Joints.

Other sized drillpipe & drillcollars available.

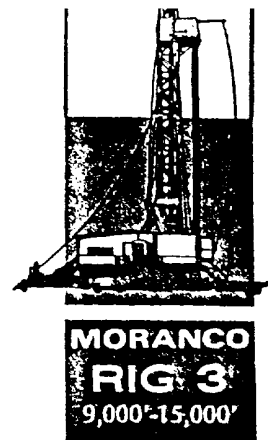
## BLOWOUT PREVENTERS

One Shaffer LWS hydraulic double 10" x 1500 series. One Hydril 10" x 1500 series.

Choke manifold 4" x 1500 series flanged connections. Payne 4 valve accumulator closing unit.

## MUD SYSTEM

3 - 30 x 8 x 6 steel pits, with 750 Bbl. capacity. Complete low pressure circulating system, consisting of four submerged mud guns and two counter sunk jets in each pit. System utilizes two - 6 x 8 centrifugal pumps, powered by diesel.



## MUD HOUSE

One - 8' x 30' Steel Storage House.

## COMMUNICATIONS

24 - Hour direct telephone interconnection through Hobbs (A.C. 505-397-3291) or Midland - Odessa (A.C. 915-563-0562).

## OTHER EQUIPMENT

BLOCKS - Oilwell 350 Ton

HOOK - BJ4300 350 Ton

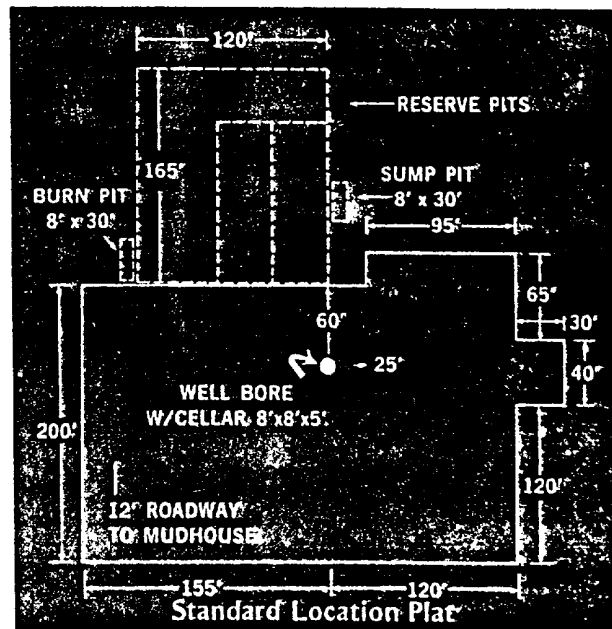
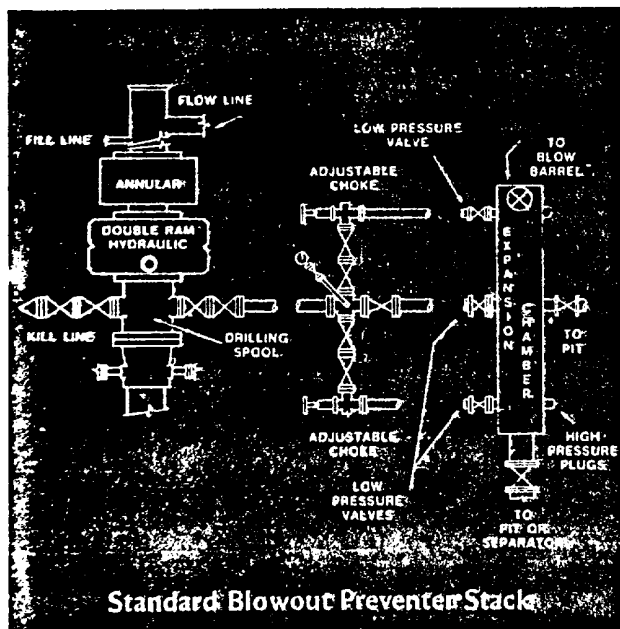
SWIVEL - NAT P400 350 Ton

LIGHT PLANTS - One 40 KW and one 15 KW AC generators, powered by diesel engines.

LIGHTS - AC fluorescent or mercury - All vapor proof.

FRESH WATER STORAGE - two 500 Bbl. and one 400 Bbl. horizontal tanks.

HOUSING - 1 - 8' x 36' airconditioned trailer house, with sleeping and cooking facilities.



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