

COPY TO O. C. C.  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-025-25310

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK ~~Re Entry~~  
~~DRILL~~ ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Robert N. Enfield

3. ADDRESS OF OPERATOR

P. O. Box 2431, Santa Fe, New Mexico 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface660 FNL & 1980 FWL, Sec. 30, T-18-S, R-33-E  
At proposed prod. zone

Same

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

12 Miles Southeast of Maljamar

15. DISTANCE FROM PROPOSED\*

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

660'

16. NO. OF ACRES IN LEASE

2470.16

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

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

2640'

19. PROPOSED DEPTH

13,677'

20. ROTARY OR CABLE TOOLS

Rotary

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

3784.4 GL

22. APPROX. DATE WORK WILL START\*

October 15, 1979

23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½	13-3/8	48#	500*	Cir. to surface*
12½	9-5/8	36#, 40# K-55, N-80	4,826'	Cir. to surface*
8½	5-1/2	17# & 20#	13,677'	700 sx.

\* 13-3/8 and 9-5/8 previously set during original drilling.

Rotary tools will be used to drill out all cement plugs to TD of 13,677'. Then 5½" will be run and Morrow formation selectively perforated and production tested.

Gas sales not dedicated

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HOBBS, NEW MEXICO

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

Robert N. Enfield

TITLE Operator

DATE 9/25/79

(This space for Federal or State office use)

PERMIT NO.

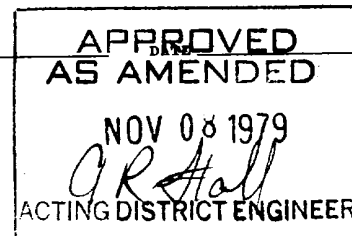
APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side



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ATTACHMENT "A"

SURFACE USE PLAN

Robert N. Enfield  
Hudson Federal No. 2

1. Areal Road Map: Attached topographic map shows the existing road 6/10 miles south of the location. We will use only the road, pad and pits as originally approved on the drilling of this well. There will not be any new surface disturbance. Therefore it is requested that the field and archaeological inspection be waived as all of this area has been previously approved for operations.
2. Location of Existing Wells: Attached plat shows nearest existing wells 6/10 miles south of the location.
3. Proposed Well Mat:
  - a. Mat Size: 285' x 220'.
  - b. Surface: Will be topped with 6' - 8' of caliche, watered and compacted. Caliche will be purchased by dirt contractor.
  - c. Reserve Pit: 120' x 165' pit lined with plastic.
  - d. Cut and Fill: Nominal.
  - e. Drill Site Layout: Attachment shows position of equipment and pits at drill site.
  - f. Setting and Environment:
    - (1) Terrain: Rolling sand dunes. Attached topographic map.
    - (2) Soil: Sandy
    - (3) Vegetation: Sparse vegetation, being mostly semi-desert plants, with very little grass.
    - (4) Surface Use: Cattle grazing.
    - (5) Other: The location is a low environmental risk area.
- g. Distances To:
  - (1) Ponds and Streams: There are no surface waters within one mile.
  - (2) Water Wells: There are no water wells within 1/2 mile.
  - (3) Residences and Buildings: The nearest house is three miles north of the location.
  - (4) Arroyos, Canyons, Hills, Etc.: None

- h. Well Sign: Sign identifying and locating well will be maintained at the drill site commencing with the spudding of the well.
  - i. Open Pits: All pits containing mud or other liquids will be fenced or gaurded.
4. Roads:
- a. Existing Roads: All existing roads within three miles of well site are shown on an attachment.
  - b. Planned Roads: None
  - c. Fences, Gates and Cattle Guards: None Needed
5. Tank Battery: This is a gas prospect and no tank battery is anticipated.
6. Lease Pipelines:
- a. Existing: None
  - b. Planned: None
7. Water Disposal: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. A burn pit will be located adjacent, but separate, to the reserve pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away. Any produced water will be collected in tanks and hauled to an approved disposal system.
8. Water Supply: Water will be trucked from the nearest commercial source.
9. Archaeological Resources: None were observed.
10. Restoration of Surface: If well is productive, pits will be backfilled and leveled as soon as practical. The plastic pit liner will be placed in the bottom of the pit before backfilling. Upon final abandonment the well site will be leveled and cleaned and the road ripped, with land returned as near as practical to original condition.
11. Operator's Representatives: Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Drilling and Production:

James F. O'Briant  
306 Building of the Southwest  
Midland, Texas 79701

Robert N. Enfield  
P. O. Box 2431  
Santa Fe, New Mexico 87501

OR

Office Phone - (915) 683-5511  
Home Phone - (915) 692-8907

Office Phone - (505) 988-2863  
Home Phone - (505) 982-0092

12. 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 Robert N. Enfield and his contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

9/25/79  
Date

Robert N. Enfield  
Name and Title  
Robert N. Enfield, Operator

ATTACHMENT "B"

SEVEN-POINT PLAN FOR WELL CONTROL

Hudson Federal No. 2

1. Surface Casing: 13-3/8", 48# per foot, set at approximately 500' cemented to the surface.
2. Casinghead Flanges: 10" upper flange, 5,000 psi working pressure, 9-5/8" x 5-1/2".
3. Intermediate Casing: 9-5/8", 36#, 43.5#, 47# per foot. Set at 4826' and cemented to surface.
4. Blowout Preventers: Refer to attachment.
5. Auxiliary Equipment: A choke manifold along with normal equipment associated with a rig of this size.
6. Anticipated Bottom Hole Pressures: 6000 psi based on pressure gradients established from drillstem tests of other wells in the area.
7. Drilling Fluid:  
0' - T.D. 10# brine water circulating through steel pits. Mud up with DRISPAC. Properties should be: Viscosity 34-36 sec/1000 cc., weight 9.8 - 10 ppg, filter loss below 10cc and ph 10. If higher than anticipated pressures are encountered, increase weight with BAROID and viscosity with BAROCO clay and FLOSAL.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION

Form O-11  
Supersedes O-11b  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator <b>R.N. Enfield</b>		Lessee <b>Hudson Federal</b>		Acres <b>2</b>
Section <b>C</b>	Section <b>30</b>	Township <b>18 South</b>	Range <b>33 East</b>	County <b>Lea</b>

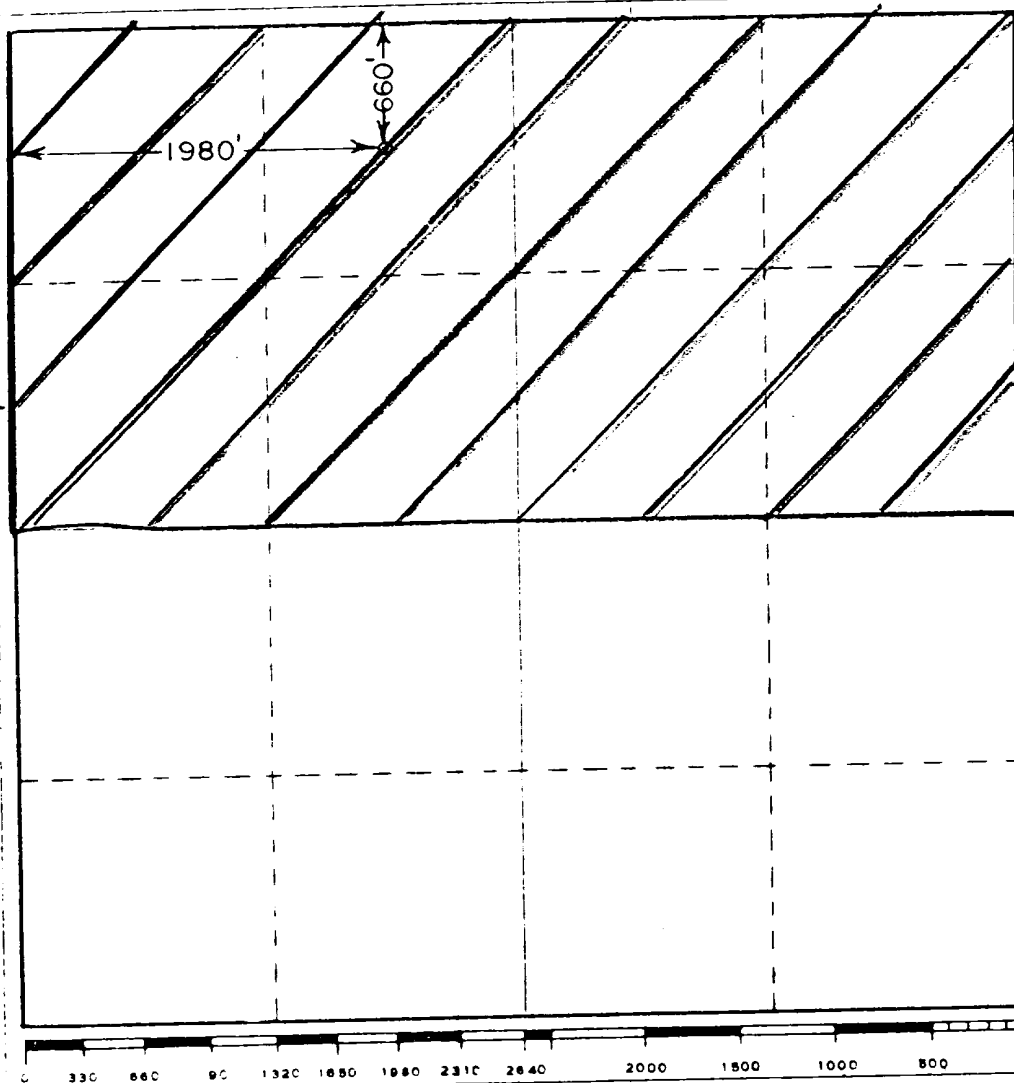
Actual Well Location of Well: <b>660</b> feet from the <b>North</b> line and <b>1980</b> feet from the <b>West</b> line	
Ground Level Elev. <b>3784.4</b>	Producing Formation <b>Morrow</b>
Pool <b>UNDESIGNATED</b> <b>So. Corbin Morrow</b>	
Designated Acreage <b>320</b>	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. 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.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-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.

*Robert N. Enfield*  
Name

Robert N. Enfield

Position

Operator

Company

Robert N. Enfield

Date

June 14, 1976

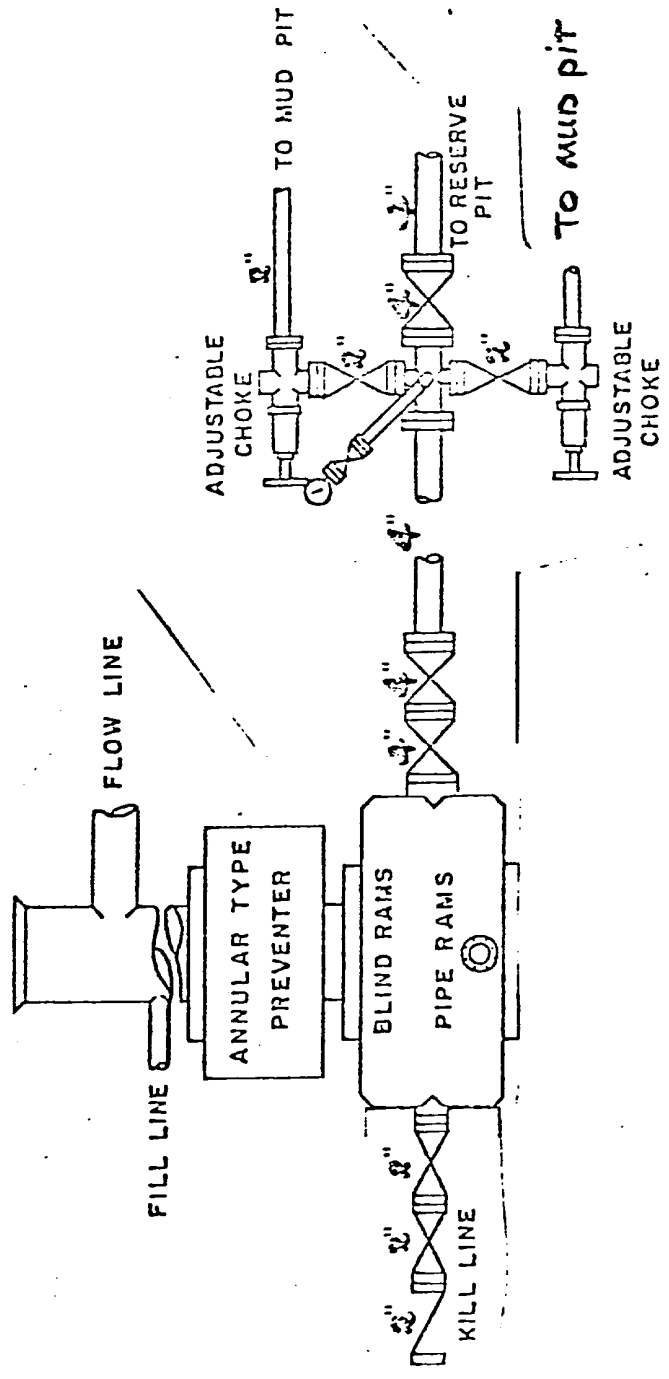
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

June 9, 1976

Registered Professional Engineer and/or Land Surveyor

*John W. West*  
Certificate No. **676**



*Standard BOP and Choke Assembly*

*1500 Series*



