

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

MORRIS R. ANTWEIL

3. ADDRESS OF OPERATOR

P.O. BOX 2010, HOBBS, NEW MEXICO 88240

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

1980' FNL AND 1980' FWL OF SECTION 31

At proposed prod. zone

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

19 MILES NORTHEAST OF CARLSBAD, NEW MEXICO

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

79.28

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

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

-

19. PROPOSED DEPTH

1800'

20. ROTARY OR CABLE TOOLS

ROTARY

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

3323.1 GR

22. APPROX. DATE WORK WILL START*

UPON APPROVAL

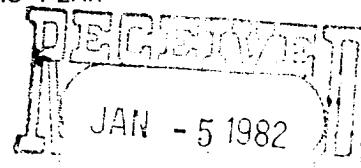
23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24# K-55	350	SUFFICIENT TO CIRCULATE
7-7/8"	5-1/2"	14# K-55	1800	SUFFICIENT TO CIRCULATE

PRODUCING ZONE WILL BE PERFORATED AND STIMULATED AS REQUIRED.

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA
BOP SKETCH
SURFACE USE AND OPERATIONS PLAN



OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWEEL, 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

Arthur R. Brown

Agent for

MORRIS R. ANTWEIL

DATE JANUARY 4, 1982

(This space for Federal or State office use)

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

DATE

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MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

JAN 28 1982

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

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

O. C. D.

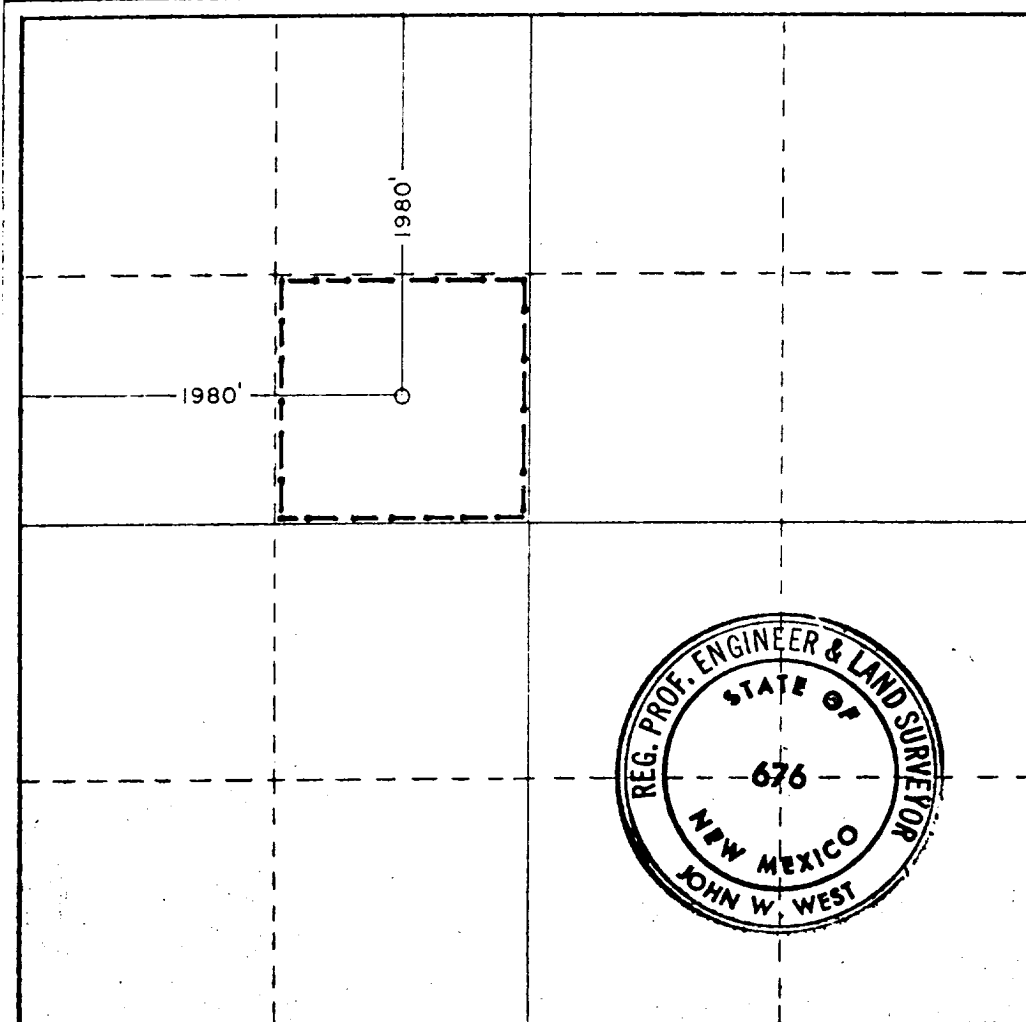
Operator Morris R. Antweil		Lease Gulf Federal		ARTESIA, OFFICE No. 1	
Unit Letter F	Section 31	Township 19 South	Range 30 East	County Eddy	
Actual Footage Location of Well: 1980 feet from the North line and 1980 feet from the West line					
Ground Level Elev. 3323.1'	Producing Formation YATES		Pool WILDCAT	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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.

Arthur R. Brown
Name **Arthur R. Brown**

Position
Agent for

Company
MORRIS R. ANTWEIL

Date
JANUARY 4, 1982

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
Dec. 15, 1981

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6663
Ronald J. Eidson 3239

0 320 640 960 1280 1600 1920 2240 2560 2880 3200 3520 3840 4160 4480 4800 5120 5440 5760 6080 6400 6720 7040 7360 7680 8000 8320 8640 8960 9280 9600 9920 10240 10560 10880 11200 11520 11840 12160 12480 12800 13120 13440 13760 14080 14400 14720 15040 15360 15680 16000



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
South Central Region
P.O. Box 26124
Albuquerque, New Mexico 87125

IN REPLY REFER TO:

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JAN 28 1982

O. C. D.
ARTESIA, OFFICE

JAN 26 1982

Morris R. Antweil
P.O. Box 2010
Hobbs, New Mexico 88240

Gentlemen:

Your application for Permit to Drill well No. 1-Gulf Federal in the SE 1/4 sec. 31, T. 19 S., R. 30 E., Eddy County, New Mexico, lease NM-19441, to a depth of 1800 feet to test the Yates formation in the oil-potash area, is hereby approved as amended by stipulations attached to the application.

One copy of the application is returned herewith. Please notify the District Supervisor, Geological Survey, Roswell, New Mexico, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

(ORIG. SGD.) MICHAEL F. REITZ

FOR

Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosure

cc:

NMOCD (2)

BLM - Carlsbad

CM, SCR

DCM - Mining (2)

Regional Files

Roswell District Files

Artesia Sub-district

Suspense File

ARF

RCF

GHStewart:mvd:1/20/82

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JAN 28 1982

O. C. D.
ARTESIA, OFFICE

SUPPLEMENTAL DRILLING DATA

MORRIS R. ANTWEIL
WELL NO.1 GULF FEDERAL

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	90'
Top Salt	350'
Tansil	1200'
Yates	1450'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Yates	Oil
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4. PROPOSED CASING AND CEMENTING PROGRAM:

CASING SIZE	SETTING DEPTH		WEIGHT	GRADE	JOINT
	FROM	TO			
8-5/8"	0	350	24#	K-55	STC
5-1/2"	0	1800	14#	K-55	STC

8-5/8" casing will be cemented with approximately 150 sacks of Class "C" cement with 2% CaCl. Cement to circulate.

5-1/2" casing will be cemented with sufficient "Light" cement, tailed in with 200 sacks of Class "C", to circulate.

Cement quantities and additives may be varied at time casing is run to best suit hole conditions.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling below the 8-5/8" surface casing seat, will consist of a double ram type, Series 600 preventer.

A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 350 feet: Fresh water with gel or lime as needed for viscosity control.

350 feet to total depth: Brine with additives as necessary for control of pH, viscosity and weight.

7. AUXILIARY EQUIPMENT:

Drill string safety valves will be maintained on the rig floor while drilling operations are in progress.

8. TESTING, CORING, AND LOGGING PROGRAMS:

Drill stem tests will be made when drilling time, samples, and other data indicate a test is warranted.

It is planned that electric logs will include GR,CNL,FDC, and DLL logs.

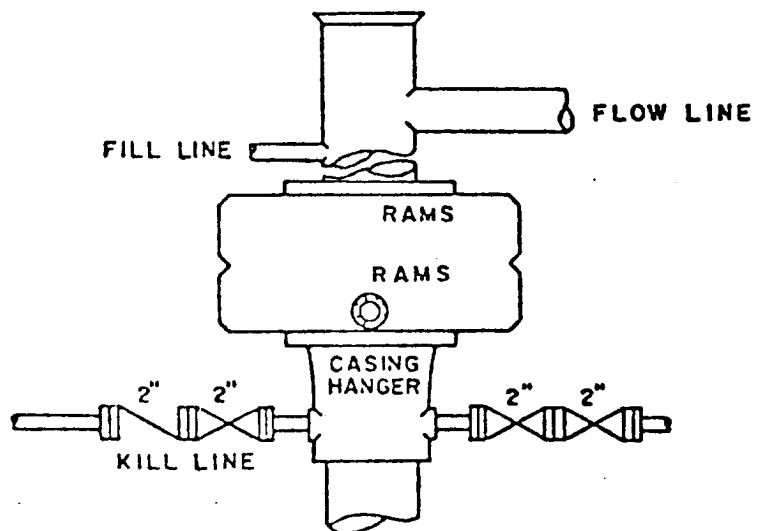
No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES, OR HYDROGEN SULFIDE GAS:

None anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that operations will commence upon approval of this application, and that drilling and completion operations will last about 30 days.



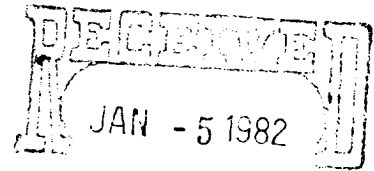
BOP STACK

SERIES 600

DEPTH INTERVAL

BELOW 8-5/8" CASING SEAT

BOP ARRANGEMENT



OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWell, NEW MEXICO

SURFACE USE AND OPERATIONS PLAN

FOR

MORRIS R. ANTWEIL
WELL NO.1 GULF FEDERAL
1980'FNL & 1980'FWL SEC.31, T.19 S., R.30 E.
EDDY COUNTY, NEW MEXICO

LOCATED: 19 air miles northeast of Carlsbad, New Mexico.

FEDERAL LEASE NUMBER: NM-19441

RECORD LESSEE: Gulf Oil Corporation.

LEASE ISSUED: November 1, 1973, for 10 years.

ACRES IN LEASE: 79.28.

SURFACE OWNERSHIP: Federal.

GRAZING PERMITTEE: Snyder Ranches
c/o Mr. Larry Squires
P.O. Box 726
Lovington, New Mexico 88260

POOL: Wildcat.

POOL RULES: Statewide. 40 acre spacing for oil.

EXHIBITS: A. Road Map
B. Plat Showing Existing Wells and Existing Roads
C. Drilling Rig Layout
D. Topo Plat

1. EXISTING ROADS:

- A. Exhibit "A" is a road map showing the location of the proposed well as staked. Point "A" on the plat is on US 62-180 at the junction of State highway 31, going north, with US 62-180. This point is 54 miles west of Hobbs and 15 miles east of Carlsbad. To go to the proposed well site from this point, exit US 62-180 onto highway 31 and go north 5.8 miles to the junction of highways 31 and 360 near the PCA mine. Turn west at this point onto a County maintained caliche road and go west and north 3.8 miles. The proposed well site is 0.7 mile south of this point.
- B. Exhibit "B" is a plat showing existing roads in the vicinity of the proposed well site. Existing roads are color coded.
- C. Any repairs to existing roads do not appear necessary at the present time.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be 15 feet wide and approximately 0.7 mile long. The new road is labeled and color coded red on Exhibit "B". The center line of the proposed new road has been staked and flagged.
- B. Surfacing Material: Caliche. Watered, compacted, and graded.
- C. Maximum Grade: Two percent.
- D. Turnouts: Probably two.
- E. Drainage Design: New road will be crowned with drainage to both sides.
- F. Culverts: None required
- G. Cuts and Fills: None necessary.
- H. Gates and Cattle Guards: One cattle guard will be installed in the fence along the north line of Section 31.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells in the immediate area are shown on Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are no production facilities on the leasehold at the present

time. If the proposed well is productive, necessary production facilities will be located on the well pad.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. It is not contemplated that a water well will be drilled. Water necessary for drilling operations will be purchased and trucked to the well site over existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

- A. Caliche needed for construction work will be taken from an existing pit on State land in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 32, T.19 S., R.30 E., Eddy County, New Mexico, and will be moved by truck over existing and proposed roads. Location of the pit is shown on Exhibits "B" and "D".

7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits.
- D. Oil produced during tests will be stored in test tanks until sold.
- E. 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 the trash pit is shown on Exhibit "C".
- F. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

- A. None required.

9. WELL SITE LAYOUT:

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

B. Cut and fill will be minor; about 1 foot of cut on the north side of the pad and a corresponding fill on the south side. Clearing of the well site will be required.

C. The pad and pit area has been staked and flagged.

10. 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. Pits will be filled and the location will be cleaned of all trash and junk to leave the well site in an as aesthetically pleasing condition as possible.

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

C. After abandonment, all equipment, trash and junk will be removed and the well site will be cleaned. Any special rehabilitation and/or special revegetation requirements of the surface management agency will be complied with and will be accomplished as rapidly as possible.

11. OTHER INFORMATION:

A. Topography: Land surface in the area is undulating, but relatively level at the well site with a gentle slope to the south.

B. Soil: Top soil at the well site is a loamy sand.

C. Flora and Fauna: The vegetative cover is sparse and consists of mesquite, yucca, weeds and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.

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

E. Residences and Other Structures: There are no occupied dwellings within two miles of the proposed well site. The nearest windmill is about 3/4 mile northwest.

F. Archaeological, Historical, or Other Cultural Sites: None observed in the area.

G. Land Use: Grazing and wildlife habitat.

H. Surface Ownership: Federal.

12. OPERATOR'S REPRESENTATIVE:


The representative responsible for assuring compliance with the approved Surface Use and Operations Plan is:

Bob Williams
P. O. Box 2010
Hobbs, New Mexico 88240
Office Phone: 505-393-4111
Home Phone: 505-393-6038

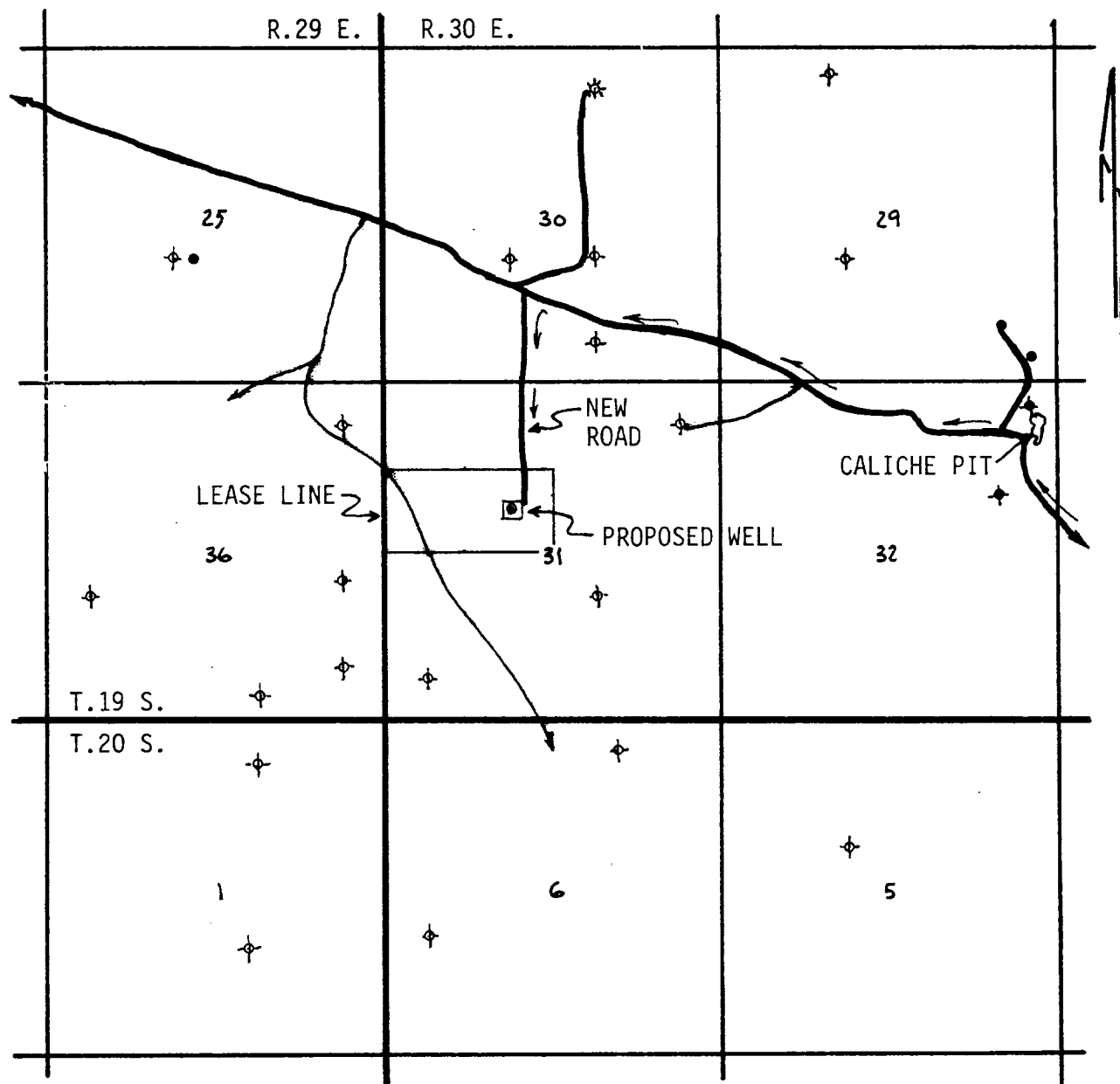
13. CERTIFICATION:

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 Morris R. Antweil and his contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

January 4, 1982
Date:


Arthur R. Brown, Agent for
MORRIS R. ANTWEIL

MORRIS R. ANTWEIL
WELL NO.1 GULF FEDERAL
1980'FNL & 1980'FWL SEC.31, T.19 S., R.30 E.
EDDY COUNTY, N.M. SCALE: 1/2" = 1 MI.



LEGEND:

- Oil Well
- ☆ Gas Well
- ⊕ Plugged Well
- Proposed Well
- Existing Caliche Road
- 2-Track Ranch Road
- Proposed New Road

EXHIBIT "B"

MORRIS R. ANTWEIL
 WELL NO.1 GULF FEDERAL
 1980' FNL & 1980' FWL SEC.31, T.19 S., R.30 E.
 EDDY COUNTY, N.M. SCALE: 2" = 1 MI.

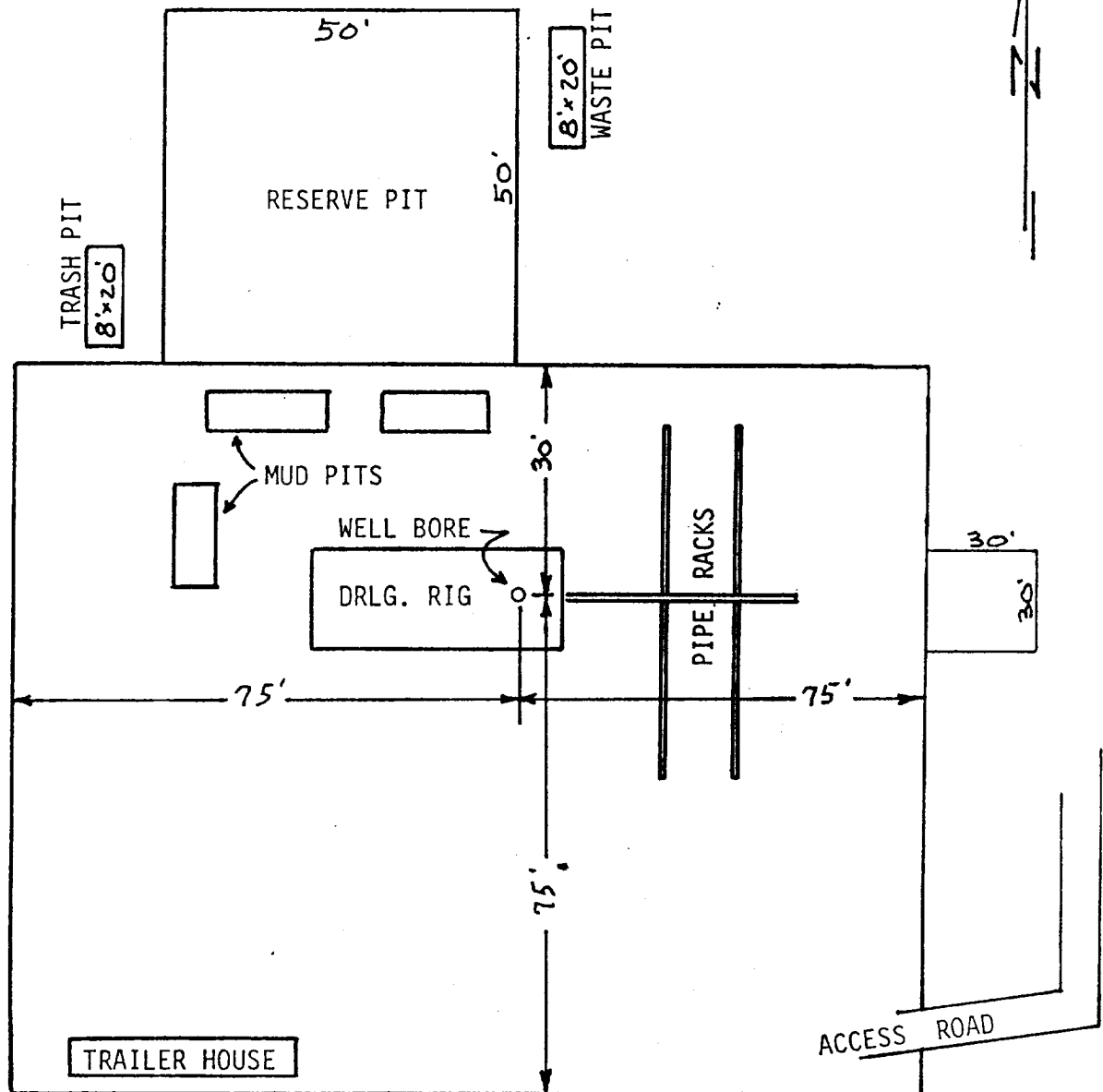


EXHIBIT "C"

MORRIS R. ANTWEIL
WELL NO.1 GULF FEDERAL
DRILLING RIG LAYOUT
SCALE: None

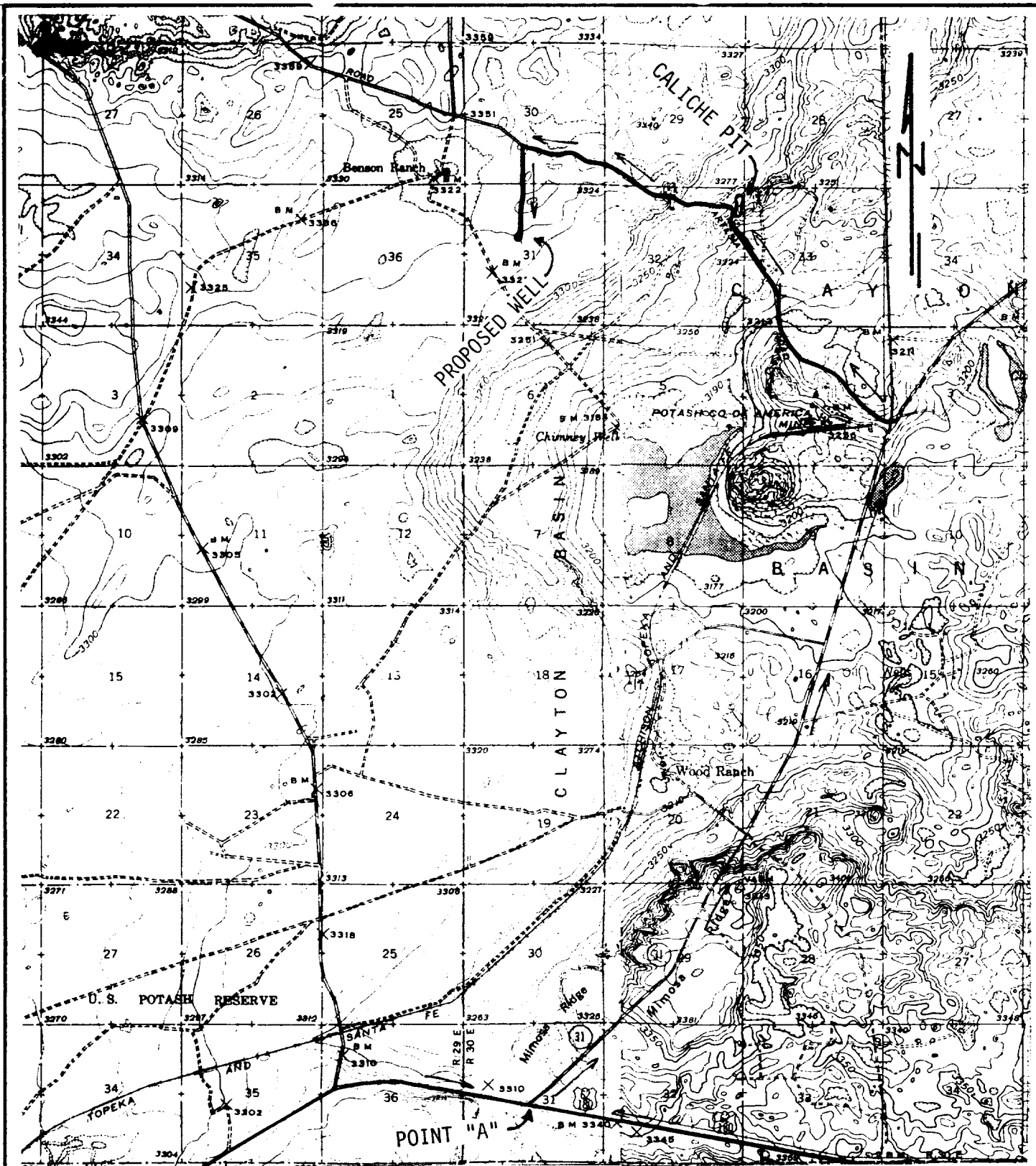


EXHIBIT "D"

MORRIS R. ANTWEIL
WELL NO.1 GULF FEDERAL
TOPO PLAT
CONTOUR INTERVAL: 10'

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JAN 27 1982

U.S. DEPARTMENT OF AGRICULTURE

WASHINGTON, D.C.