

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form No. 1  
Supersedes O.C.C. 2  
1-10-1976 (Rev. 1-78)

All distances must be from the outer boundaries of the Section

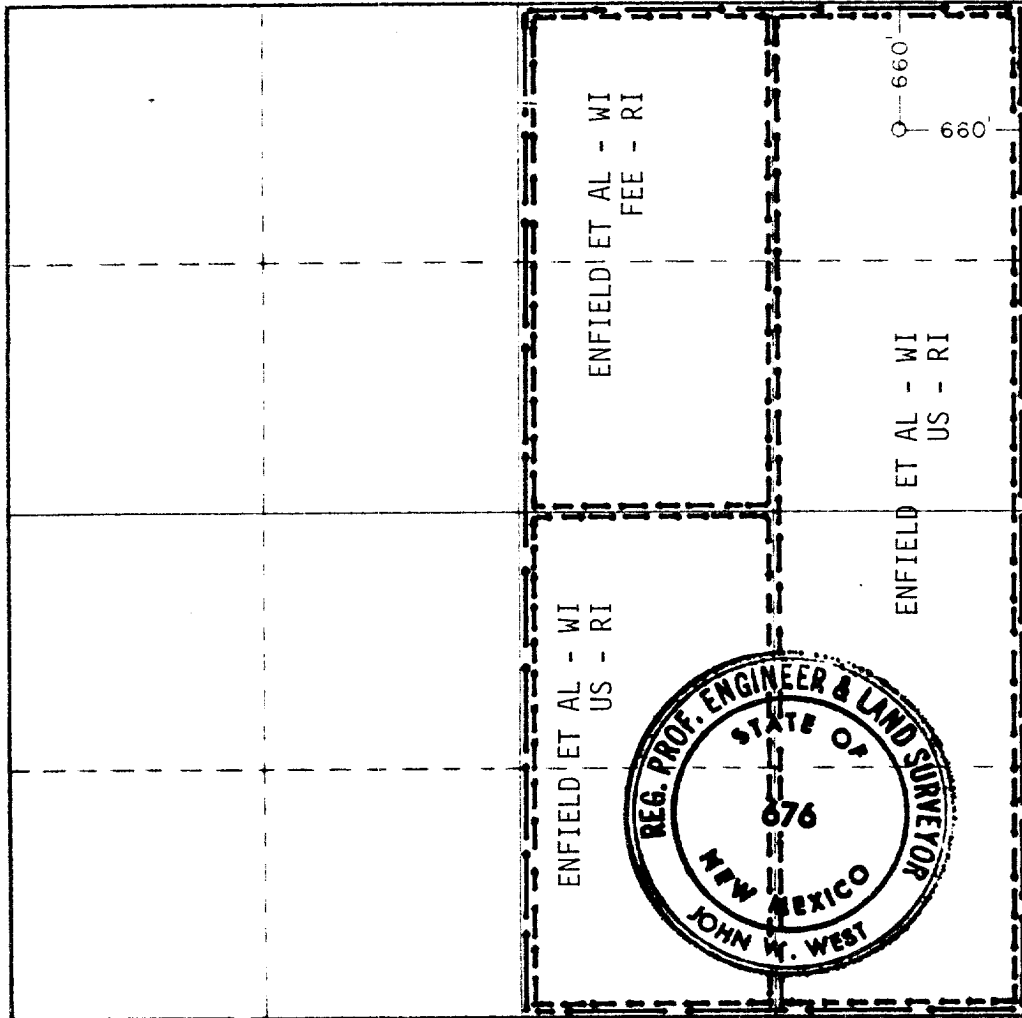
Operator <b>Robert N. Enfield</b>		Lease <b>Federal 18</b>		Well No. <b>1</b>
Tract Letter <b>A</b>	Section <b>18</b>	Township <b>19 South</b>	Range <b>27 East</b>	County <b>Eddy</b>
Actual Footage Location of Well: <b>660</b> feet from the <b>North</b> line and <b>660</b> feet from the <b>East</b> line.				
Ground Level Elev. <b>3271.2'</b>	Producing Formation <b>MORROW</b>	Pool <b>UNDESIGNATED MORROW</b>	Estimated Acreage <b>320</b>	

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 TO BE COMMUNITIZED

If answer is "no," list the owners and tract descriptions which have actually been consolidated (if so 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**

For Whom  
**ROBERT N. ENFIELD**

Date  
**NOVEMBER 23, 1981**

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  
**Oct. 20, 1981**

Registered Professional Engineer and/or Land Surveyor

*John W. West*

Certificate No **JOHN W. WEST 676**  
**PATRICK A. ROMERO 6683**  
**Ronald J. Eidson 3239**

## SUPPLEMENTAL DRILLING DATA

ROBERT N. ENFIELD  
WELL NO.1 FEDERAL 18

1. SURFACE FORMATION: Recent.
  
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Queen	710
Grayburg	1190
San Andres	1500
Bone Springs	4110
Wolfcamp	7170
Penn	7990
Atoka	9190
Morrow	9570

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Gas	Atoka
Gas	Morrow

4. PROPOSED CASING AND CEMENTING PROGRAM:

<u>CASING SIZE</u>	<u>SETTING DEPTH</u>		<u>WEIGHT</u>	<u>GRADE</u>	<u>JOINT</u>
	<u>FROM</u>	<u>TO</u>			
20"	0	30	CONDUCTOR	CASING	
13-3/8"	0	300	48#	H-40	STC
8-5/8"	0	2200	24#	K-55	STC
5-1/2"	0	2000	17#	K-55	BUTT
"	2000	8400	17#	K-55	STC
"	8400	10,200	17#	N-80	LTC

If the water table is high in this area, it may be necessary to reduce the amount of conductor casing and drill the surface hole with a high viscosity mud.

Equivalent grades and weights of casing may be substituted depending on availability.

13-3/8" surface casing will be cemented with approximately 300 sacks of Class "C" cement. Cement to circulate.

8-5/8" casing will be cemented with sufficient "Light" cement, tailed in with 200 sacks of Class "C", to circulate.

5-1/2" casing will be cemented with approximately 500 sacks of Class "H".

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 the 12-1/4" hole, will be either a 3000 psi working pressure, double ram type preventer or a 3000 psi working pressure, annular type preventer.

While drilling below the 8-5/8" casing seat, blowout prevention equipment will consist of 3000 psi working pressure, ram type, dual preventers and choke manifold and a 3000 psi working pressure annular type preventer.

BOP sketches are attached.

6. CIRCULATING MEDIUM:

Surface to 300 feet: Fresh water with gel or lime as needed for viscosity control.

300 feet to 2200 feet: Fresh water conditioned as necessary for control of viscosity, weight and seepage.

2200 feet to Total Depth: Water base drilling fluid conditioned as necessary for control of viscosity, pH, weight and water-loss.

7. AUXILIARY EQUIPMENT:

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

A rotating drilling head will be in use while drilling the lower part of the hole.

8. TESTING, LOGGING, AND CORING PROGRAMS:

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

It is planned that electric logs will include Gamma Ray-CNL-FDC logs and

dual Laterologs.

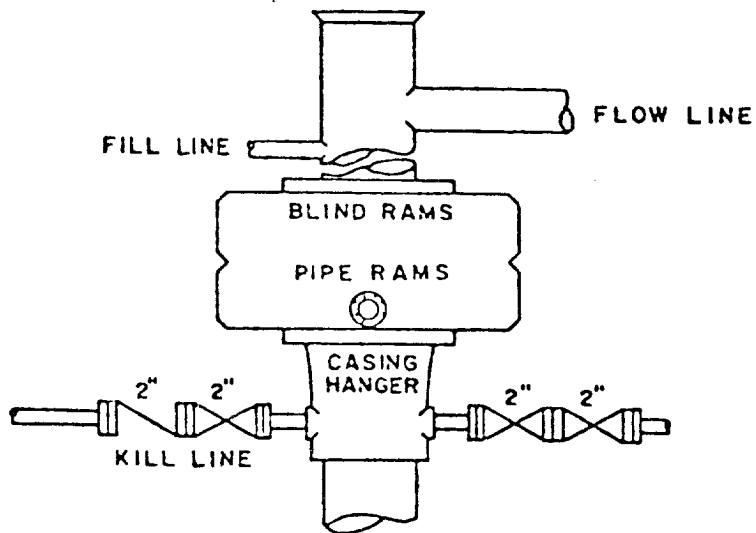
No coring is planned.

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

None anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that drilling operations will commence upon approval of this application, with drilling and completion operations lasting about 60 days.



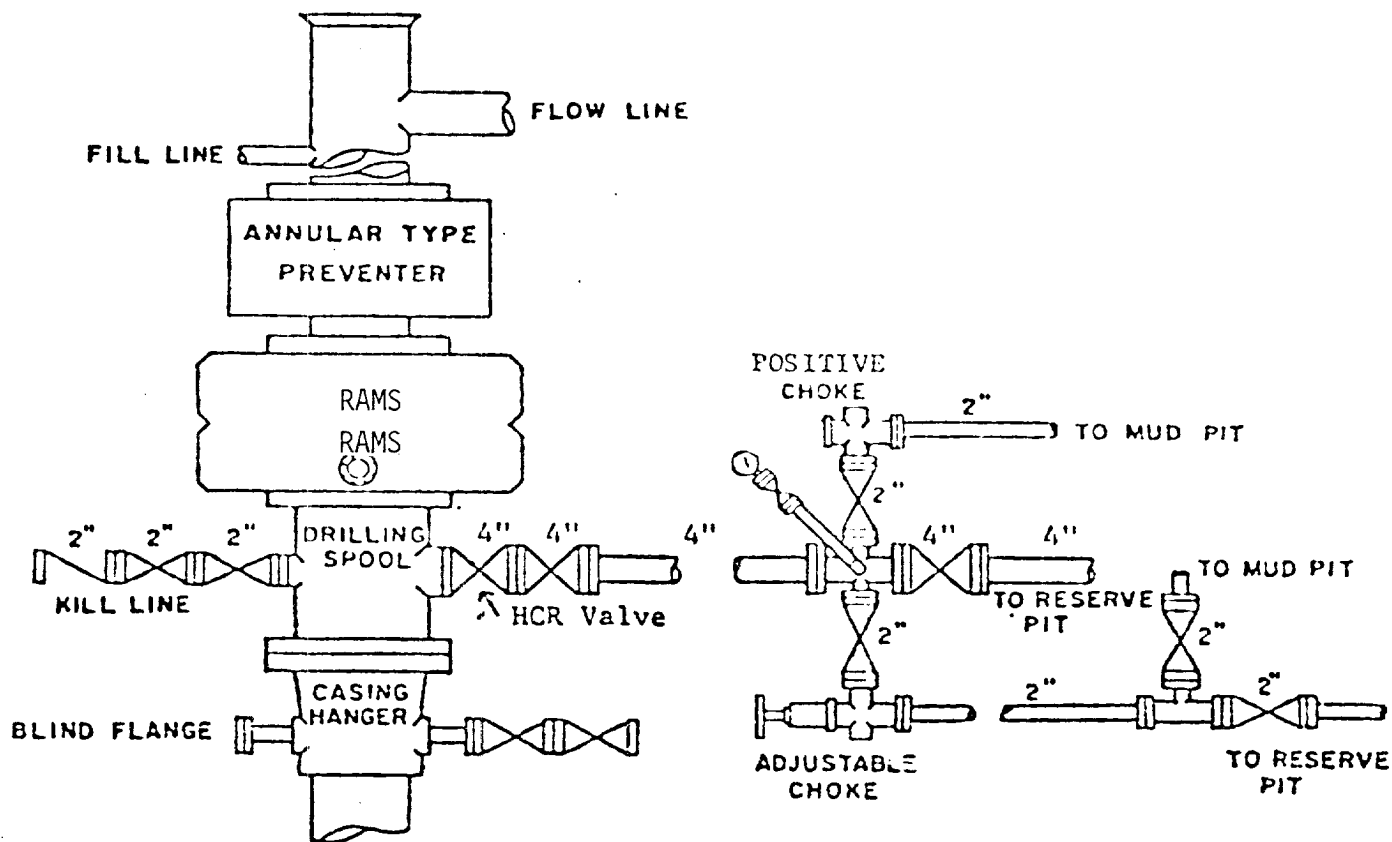
BOP STACK

3000 PSI WORKING PRESSURE

DEPTH INTERVAL

WHILE DRILLING 12-1/4" HOLE

BOP ARRANGEMENT



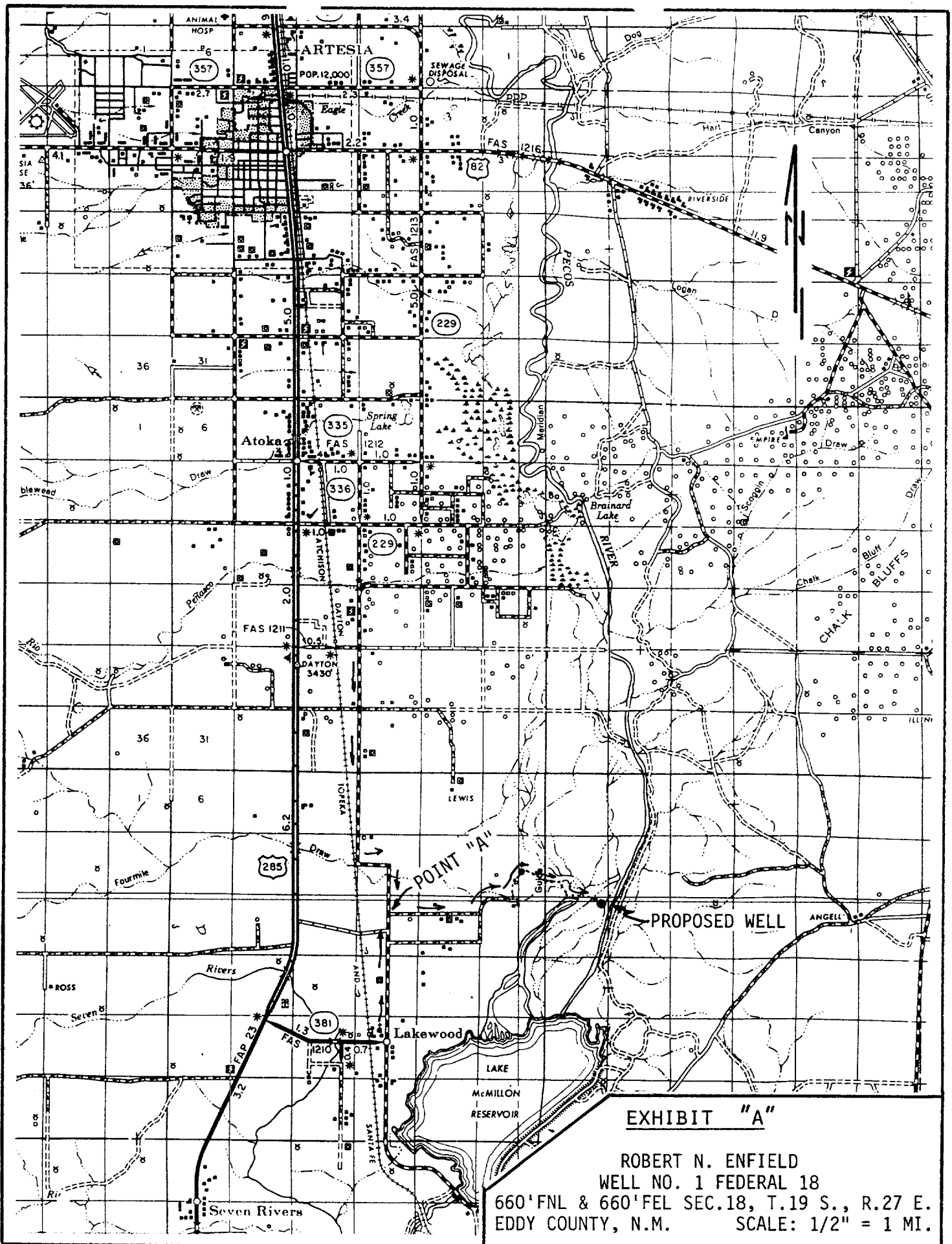
BOP STACK

3000 PSI WORKING PRESSURE

DEPTH INTERVAL

WHILE DRILLING 7-7/8" HOLE

BOP ARRANGEMENT



**EXHIBIT "A"**

ROBERT N. ENFIELD  
 WELL NO. 1 FEDERAL 18  
 660'FNL & 660'FEL SEC.18, T.19 S., R.27 E.  
 EDDY COUNTY, N.M. SCALE: 1/2" = 1 MI.

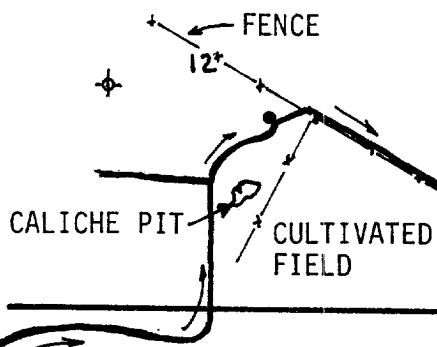
T.19 S., R.26 E.

T.19 S., R.27 E.



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NEW ROAD

PROPOSED WELL

13

18

17

LEASE LINE

24

20

PECOS RIVER (Kaiser Channel)

LAKE MC MILLAN

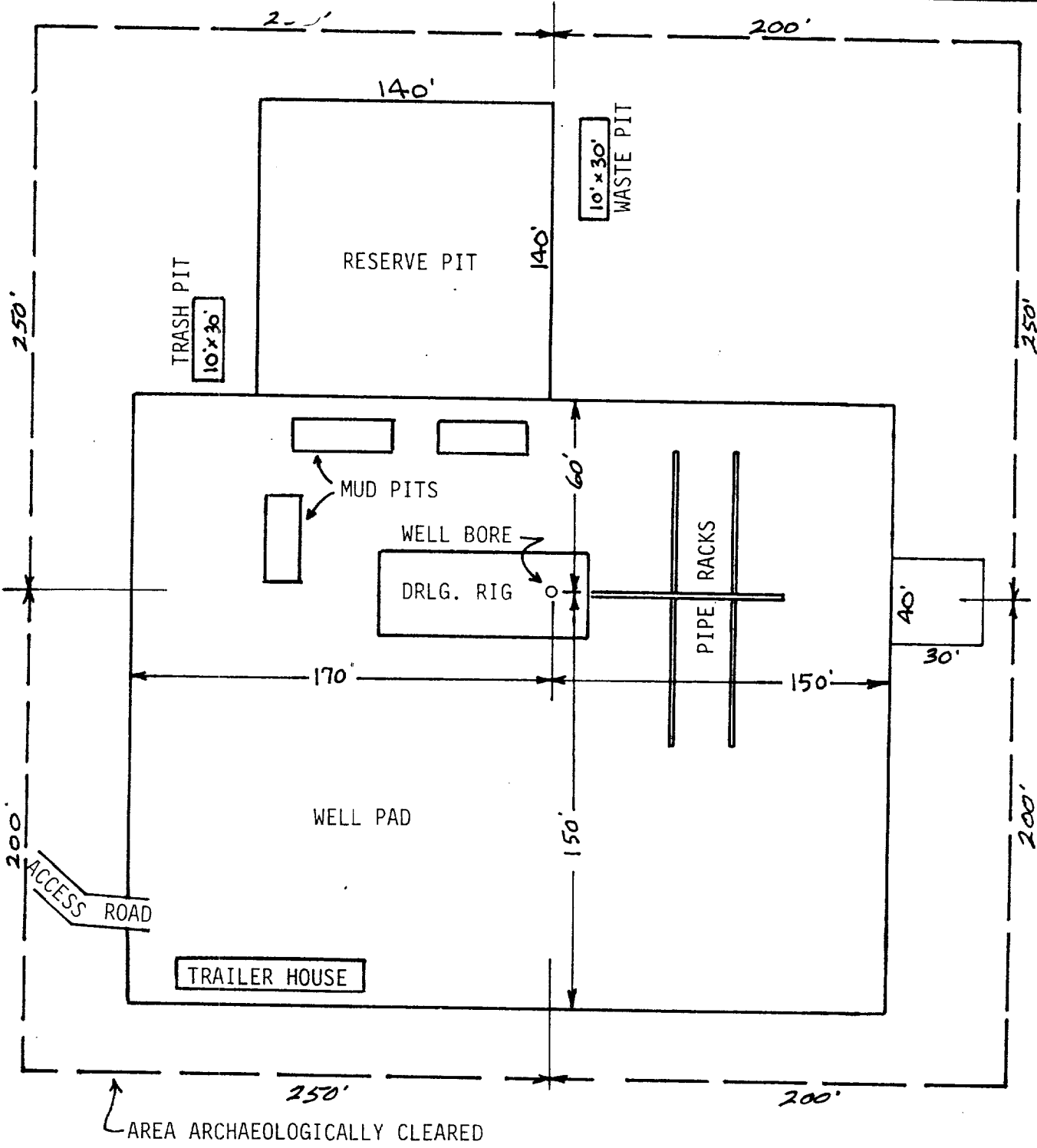
**LEGEND:**

- Oil Well
- \* Gas Well
- ⊕ Plugged Well
- Existing Road
- - - Proposed New Road

**EXHIBIT "B"**

ROBERT N. ENFIELD  
 WELL NO.1 FEDERAL 18  
 660'FNL & 660'FEL SEC.18, T.19 S., R.27 E.  
 EDDY COUNTY, N.M. SCALE: 1" = 2000'





AREA ARCHAEOLOGICALLY CLEARED

EXHIBIT "C"  
 ROBERT N. ENFIELD  
 WELL NO.1 FEDERAL 18  
 DRILLING RIG LAYOUT  
 SCALE: None