

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 ☐

## 2. NAME OF OPERATOR

Harvey E. Yates Company

## 3. ADDRESS OF OPERATOR

P. O. Box 1933, Roswell, New Mexico 88201

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

At surface

660' FSL &amp; 1980' FWL

At proposed prod. zone

SAME

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

Approximately 2.6 miles Northeast of Malaga, N.M.

## 10. 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.

19. PROPOSED DEPTH

8100'

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

2963.3' GR

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#-54#	400'	Circulate
11"	8 5/8"	24#-28#	3000'	Circulate
7 7/8"	5 1/2"	11.6#	8100'	Sufficient to cover 600' above pay zone

MUD PROGRAM:

0 - 500'	Fresh Water Gel
500' - 2600'	Saturated Brine
2600' - 6000'	Cut Brine
6000' - 8100'	Cut Brine

30-015-23779

5. LEASE DESIGNATION AND SERIAL NO.

NM-13628

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Phillips Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat Lease - Sec. 1, T-24S, R-28E

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

12. COUNTY OR PARISH

13. STATE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START

May 15, 1981

18. 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

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY  
CONDITIONS OF

APR 28 1981

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

TITLE: ADVICE President

APPROVED

(Orig. &amp; 4) GEORGE H. STEWART

MAY 4 1981

FOR  
JAMES A. GILLHAM  
DISTRICT SUPERVISOR

DATE: April 24, 1981

DATE

\*See Instructions On Reverse Side

**NEW 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

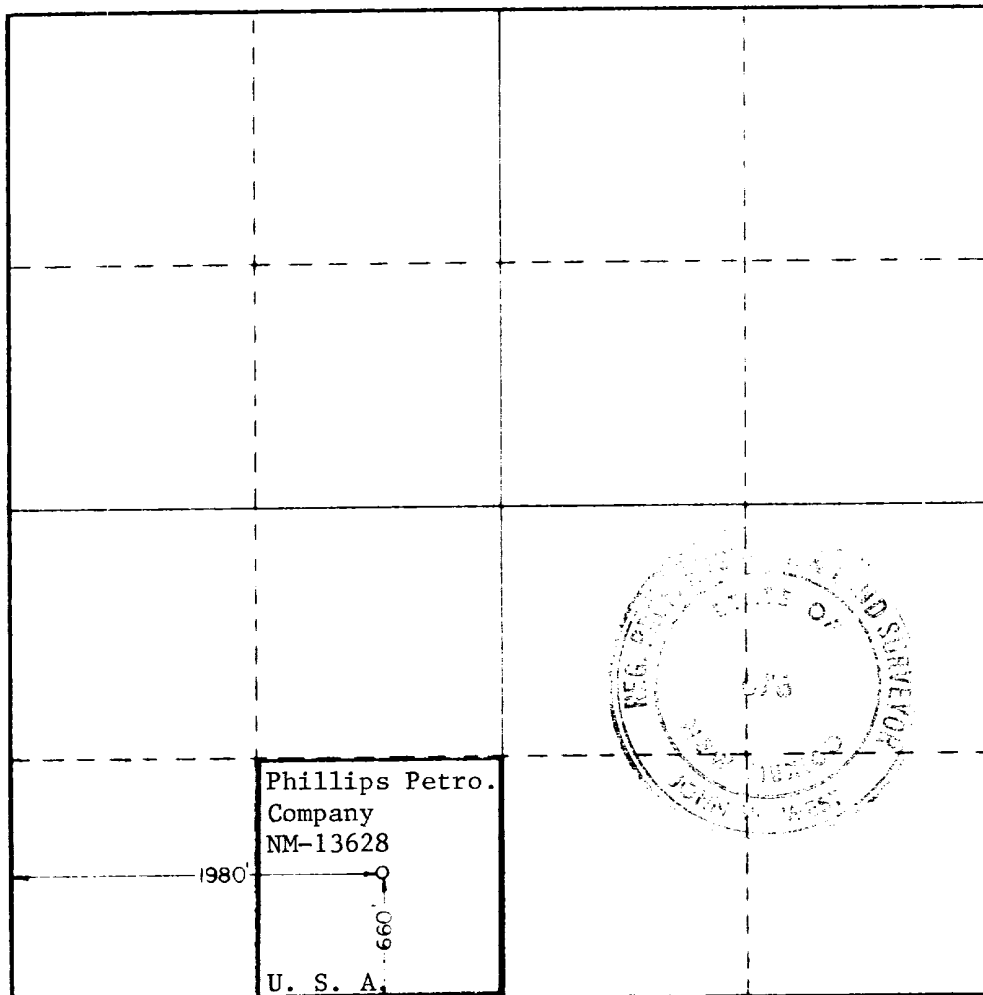
Operator <b>Harvey E. Yates Co.</b>			Lease <b>Phillips Federal</b>		Well No. <b>1</b>
Unit Letter <b>X N</b>	Section <b>1</b>	Township <b>24 South</b>	Range <b>28 East</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>660</b> feet from the <b>south</b> line and <b>1980</b> feet from the <b>west</b> line					
Ground Level Elev. <b>2963.3</b>	Producing Formation <b>Bone Springs</b>		Pool <b>Wildcat Bone Spring</b>	Dedicated Acreage: <b>40</b> Acres	

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.

*Fred G. Yates*  
Name  
**Fred G. Yates**

Position  
**Vice President**

Company  
**Harvey E. Yates Company**

Date  
**April 24, 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  
**4-2&3-81**

Registered Professional Engineer and/or Land Surveyor

*Ronald J. Eidson*

Certificate No. **JOHN W. WEST 678**  
**PATRICK A. ROMERO 6883**  
**Ronald J. Eidson 3239**

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

APPLICATION FOR DRILLING

HARVEY E. YATES COMPANY  
Phillips Federal #1  
Section 1, Township 24 South, Range 28 East  
Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill the Subject Well in Section 1, Township 24 South, Range 28 East, Eddy County, New Mexico, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with the U. S. G. S. requirements:

1. The geologic surface formation quaternary alluvium and bolson deposits and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

Delaware Is.	2750'	Bone Spring	6425'
Cherry Canyon	3585'	Total Depth	8100'
Brushy Canyon	4875'		
3. We do not anticipate finding water but have listed the formations in which we anticipate finding oil or gas.

Bone Springs Sand	7900'	Bone Springs Sand	8000'
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4. Proposed casing program: See Form 9-331C
5. Pressure control equipment: See Exhibit C
6. Mud program: See Form 9-331C
7. Auxiliary equipment: Blowout preventer
8. Testing, logging and coring programs: Two possible DST's - both in the Bone Springs Sand. We are not planning on doing any coring. Planned logs are GR & CNL.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible after approval but no later than May 15, 1981.

## SURFACE USE PLAN

HARVEY E. YATES COMPANY  
Phillips Federal #1  
660' FSL & 1980' FWL  
Section 1, Township 24 South, Range 28 East  
Eddy County, New Mexico

### 1. EXISTING ROADS

- A. Exhibit A is a portion of the New Mexico Highway Map showing the location of the proposed well. The location is approximately 2.6 miles Northeast of Malaga, New Mexico. Leave Artesia on U. S. Highway 285 to Malaga, New Mexico. Turn left on the first and only paved road in Malaga and go 8/10 of a mile; turn left on the first paved road and proceed North across the Pecos River and to the top of the hill. The location is immediately adjacent to the road at the top of this first hill on the left.
- B. We will not have to build any new road to this location. Exhibit B is a plat showing the existing roads.

### 2. PLANNED ACCESS ROADS

- A. We do not plan to build any access roads; all roads necessary are existing roads.

### 3. LOCATION OF EXISTING WELLS

- A. There are no existing wells or dry holes in this section other than our proposed Phillips Federal #1 to be located in Section 1, Township 24 South, Range 28 East, Eddy County, New Mexico.

### 4. LOCATION OF TANK BATTERIES, ETC.

- A. There are no existing tank batteries within this section. In the event we drill a producing well, all production facilities will be installed at our pad location for our proposed Phillips Federal #1 well.

### 5. LOCATION AND TYPE OF WATER SUPPLY

- A. Water will be obtained from commercial sources, either hauled or pipelined.

### 6. SOURCE OF CONSTRUCTION MATERIAL

- A. Caliche will be needed to construct the drilling pad. We plan to utilize caliche from a private pit located in the SW/4 SE/4 of Section 1.

### 7. METHODS OF HANDLING WASTE DISPOSAL

- A. Waste will be buried in reserve pits at a depth of 24". The well site will be cleaned of all waste and this will be done within 30 days after completion of the well.

### 8. ANCILLARY FACILITIES

- A. None required.

9. WELLSITE LAYOUT

- A. Exhibit C shows the relative location and dimensions of the well pad, reserve pits and major rig components.
- B. There will be no cut and fill. This area is relatively flat with sandy soil and sand dunes. The Pecos River is approximately 650 feet west of our pad location.
- C. The pad and pit area have been staked.

10. PLANS FOR RESTORATION OF THE SURFACE

- A. After finishing drilling and/or other completion operations, all equipment and other material not needed for further operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite as pleasant in appearance as possible.
- B. If the proposed well is non-productive, all restoration and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as quickly as possible. All pits will be filled and levelled within 90 days after abandonment.

11. OTHER INFORMATION

- A. The surface is federal surface.
- B. The topography consists of sandy soil with native grasses, catclaw, etc. No wildlife was observed, but the usual inhabitants of this region are jackrabbits, reptiles, coyotes, etc.
- C. There are no ponds, lakes or streams in this area except for the Pecos River which runs in a northwesterly direction approximately 650 feet west of our proposed pad location.
- D. There are no occupied dwellings or windmills in the area of the wellsite.
- E. There is no evidence of any archaeological, historical or cultural sites in the area.

12. OPERATOR'S REPRESENTATIVES

- A. The field representatives responsible for assuring compliance with the approved surface use and operations plan are:

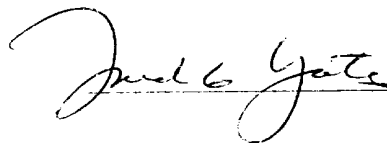
12. A. Peck Hardee  
Harvey E. Yates Company  
P. O. Box 1933 - Suite 300  
Security National Bank Bldg.  
Roswell, New Mexico 88201  
Office: 505/623-6601  
Home: 505/623-8980  
Mobile: 505/623-0989 #4109

Bob Williams  
Harvey E. Yates Company  
P. O. Box 1933 - Suite 300  
Security National Bank Bldg.  
Roswell, New Mexico 88201  
Office: 505/623-6601  
Home: 505/623-9160  
Mobile: 505/623-0989 #4122

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 Harvey E. Yates Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

April 27, 1981

 Vice President

# CARLSBAD QUADRANGLE -

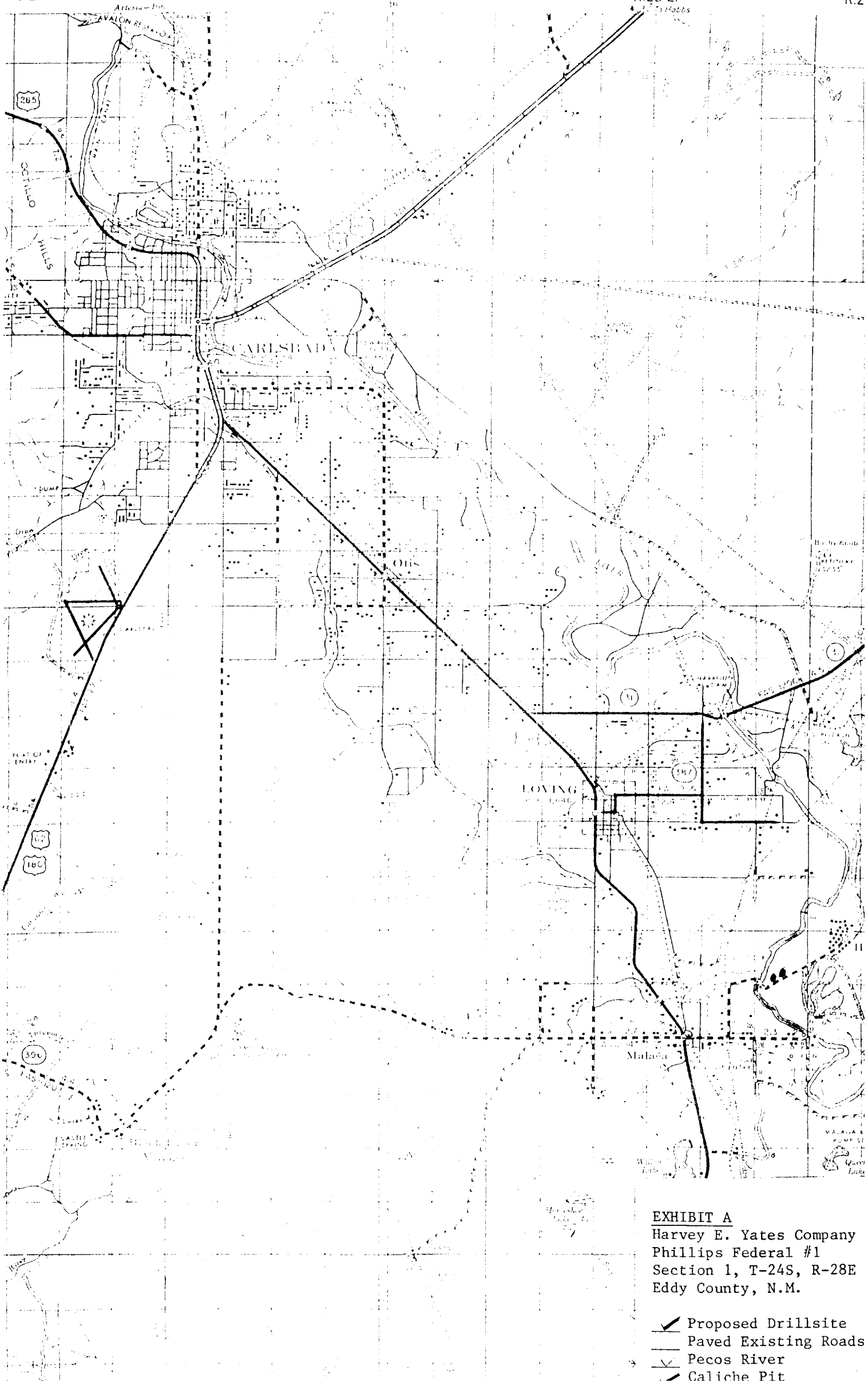
EDDY COUNTY

26 E.

R.27 E.

R.28 E.

R.2



## EXHIBIT A

Harvey E. Yates Company  
Phillips Federal #1  
Section 1, T-24S, R-28E  
Eddy County, N.M.

- ✓ Proposed Drillsite
- Paved Existing Roads
- Pecos River
- ✓ Caliche Pit

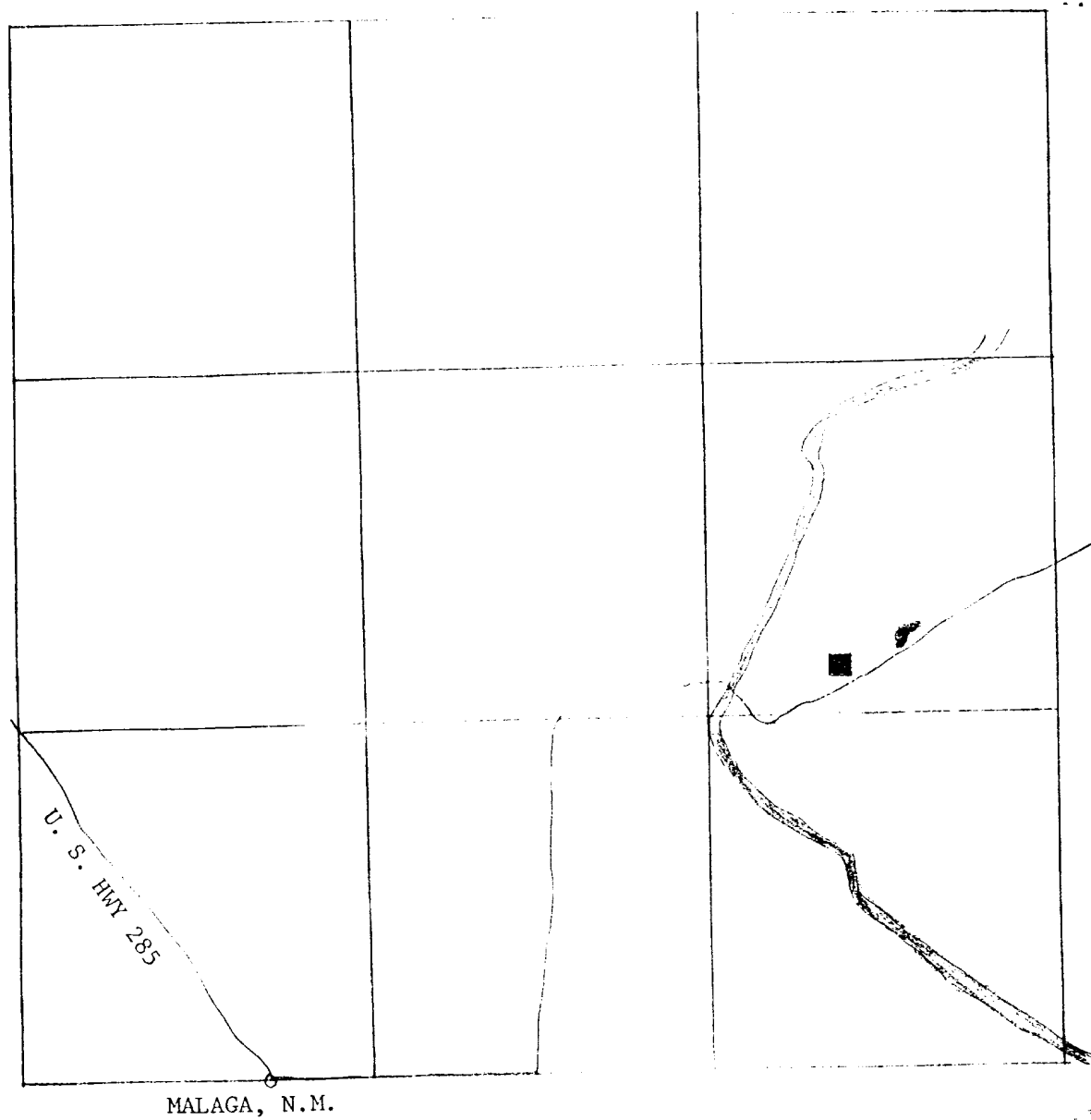


EXHIBIT B

Harvey E. Yates Company  
Phillips Federal #1  
Section 1, T-24S, R-38E  
Eddy County, N.M.

- ☒ Proposed Drillsite
- ☒ Paved Existing Roads
- ☒ Pecos River
- ☒ Caliche Pit



## DRAWWORKS

Brewster N-55.

Drum: 1-1/8" Lebus grooved

Compound: 2-engine oil bath chain drive

Brake: Hydromatic Parkersburg 40" Single

## ENGINES

Two 410-H.P. D353TA Caterpillar Diesel.

## DERRICK

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

## SUBSTRUCTURE

Lee C. Moore, 10' high, 550,000 lb. nominal capacity.

## MUD PUMPS

Pump No. 1: Emsco DB550. 550 H.P. with steel fluid end. 4 3/4" - 7 3/4" liners, 16" stroke. Compound-driven.

Pump No. 2: D-375 Emsco driven by D353 Caterpillar.

## DRILL STRING

3000' 4 1/2" Grade E, 20 lb.

Tool Joints: 4 1/2" H-90, 6 1/4" OD,

11000' 4" Grade E, 14.00 lb.

Tool Joints: 3 1/2" H-90, 5" OD

Thirty Drilco spiral-grooved 6 1/2" OD, 2 1/4" ID'

With 4" H-90 Joints.

Other sized drillpipe & drillcollars available.

## BLOWOUT PREVENTERS

One Shaffer LWS hydraulic double 10" x 900 series. One Hydril 10" x 900 series.

Choke manifold 4" x 900 series flanged connections. Payne 4 valve accumulator closing unit.

## MUD SYSTEM

3 - 10' wide steel pits, with 660 Bbl. capacity. Complete low pressure circulating system, consisting of four submerged mud guns and two counter sunk jets in each pit. System utilizes a 6 x 8 centrifugal pump, powered by diesel.

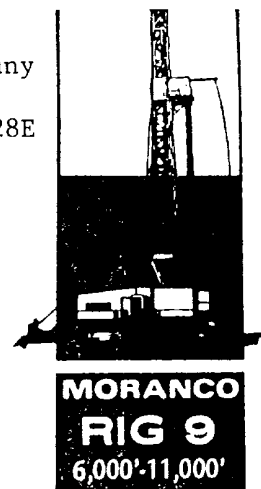
## EXHIBIT C

Harvey E. ... tes Company

Phillips Federal #1

Section 1, T-24S, R-28E

Eddy County, N.M.



## 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 -- McKissick 350 Ton

HOOK -- BJ4200 300 Ton

SWIVEL -- NAT N47 200 Ton

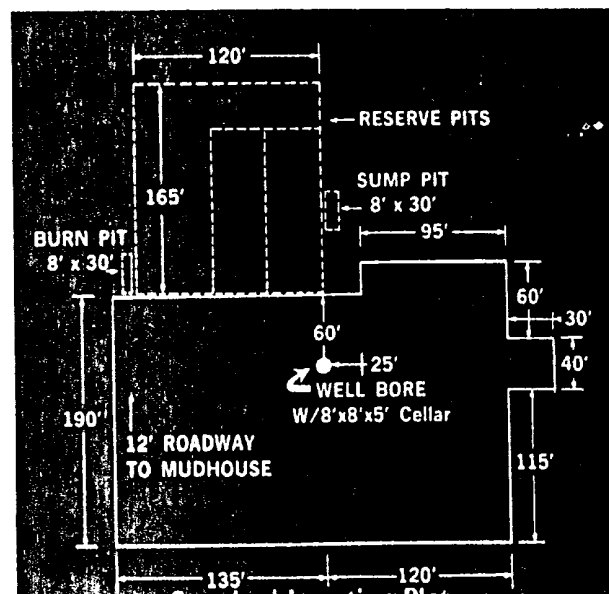
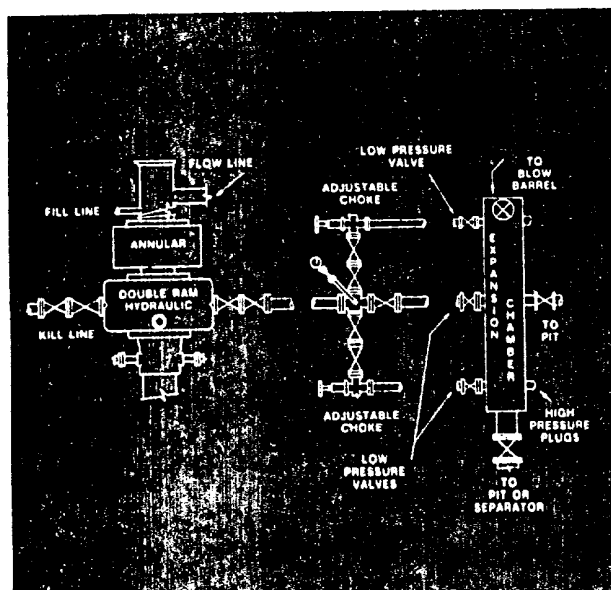
LIGHT PLANTS -- two 15 KW AC generators, powered by diesel engines.

LIGHTS -- AC fluorescent or mercury - All vapor proof.

SHALE SHAKER -- Link belt, single screen.

FRESH WATER STORAGE -- two 500 Bbl., horizontal tanks.

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



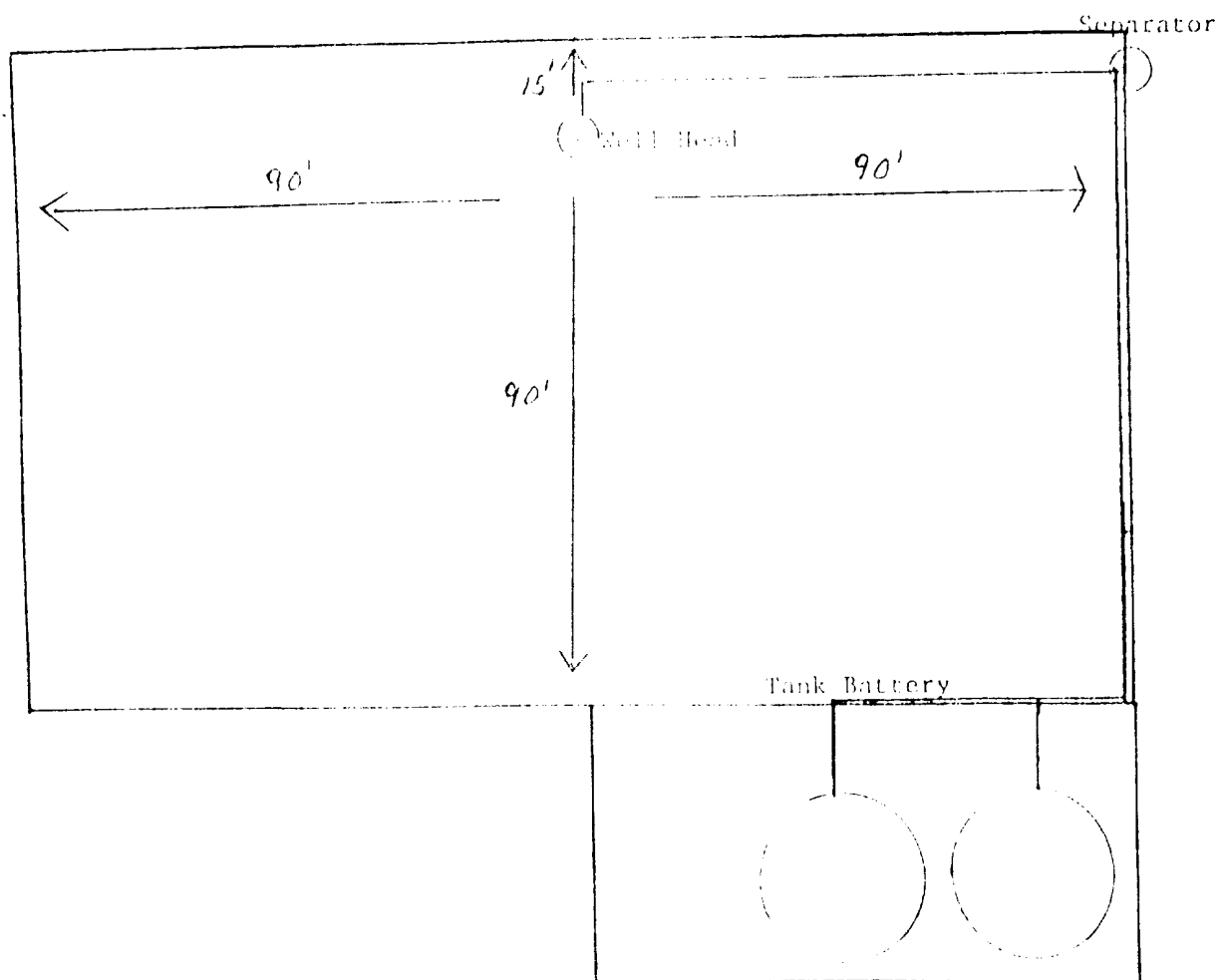


EXHIBIT D  
Harvey E. Yates Company  
Phillips Federal #1  
Section 1, T-24S, R-28E  
Eddy County, N.M.