

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

Atlantic Richfield Company ✓

3. ADDRESS OF OPERATOR

P. O. Box 1710, Hobbs, New Mexico 88240

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

At surface 1440' FWL & 2050' FSL (Unit Letter K)

At proposed prod. zone
1440' FWL & 2050' FSL (Unit Letter K)

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

13 miles East

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

120' to Lease Line

16. NO. OF ACRES IN LEASE
4,184.86 Federal
7,154.29 State17. 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.Approx. 540'
from EAU K18

19. PROPOSED DEPTH

6200'

20. ROTARY OR CABLE TOOLS

Rotary

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

3588.6' GR

22. APPROX. DATE WORK WILL START*

5-19-75

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8" OD	24# K-55	1000'	375 Sx. Circ.
7-7/8"	5-1/2" OD	14# K-55	6200'	1050 Sx. Circ.

Propose to drill an oilwell to develop the Abo Reef formation within the Empire Abo Unit boundaries in order to decrease gas voidage and maintain oil production.

Unorthodox well location approved by Administrative Order NSL-706 under the provisions of Rule 14 of Order No. R4549B.

BOP to be installed as per attached diagram.

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MAY 26 1975

O. C. C.
ARTESIA, OFFICE

RECEIVED

MAY 19 1975

U. S. GEOLOGICAL SURVEY
ARTESIA, 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

TITLE District Drilling Supervisor DATE 5-16-75

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY
CONSENTS OF APPROVAL, IF ANY

TITLE

DATE

ACTING DISTRICT ENGINEER

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES AUG 23 1975 *See Instructions On Reverse Side

DECLARED WATER BASIN
CEMENT BEHIND THE
CASING MUST BE CIRCULATED

NOTIFY USGS IN SUFFICIENT TIME TO
WITNESS CEMENTING THE 8 5/8" CASING

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-10
Supersedes C-12H
Effective 1-1-55

All distances must be from the outer boundaries of the Section

Operator Atlantic Richfield Company		Lease Empire Abo Unit "K"		Well No. 181
Section K	Section 1	Range 18 South	Range 27 East	County Eddy
Actual Section of Acreage 1440		Direction West		Distance 2050 feet from the South line
Ground Level Elev. 3588.6	Forming Unit Abo Reef		Section Empire Abo	Estimated Acreage 40 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?

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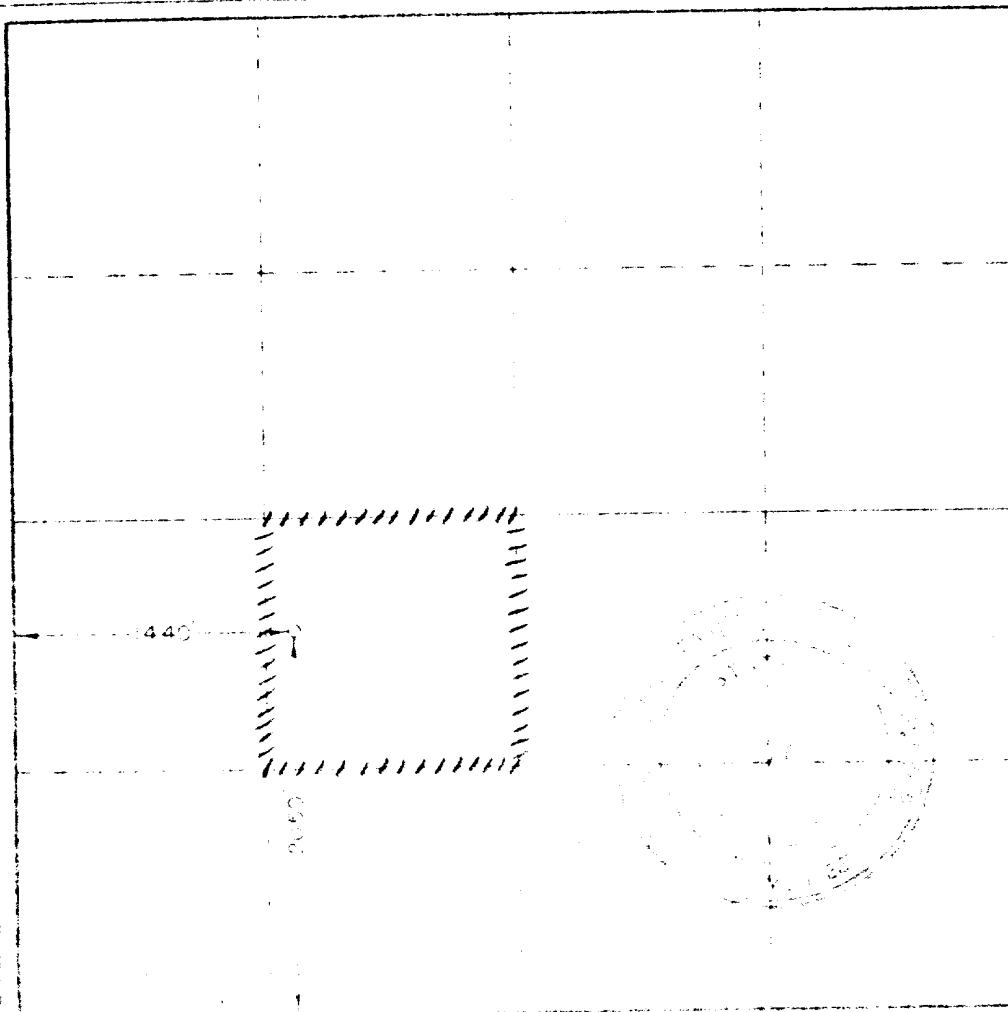
MAY 26 1975

**O. C. C.
ARTESIA, OFFICE**

☒ Yes ☐ No If answer is "yes" type of consolidation **Unitization**

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.

[Signature]
District Drilling Supervisor

Atlantic Richfield Co.

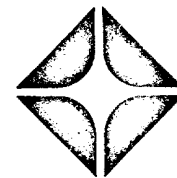
5-16-75

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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 are true and correct to the best of my knowledge.
**U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

November 8, 1974

[Signature]
176

New Mexico- Artesia District
Post Office Box 1710
Hobbs, New Mexico 88240
Telephone 505 393 7163



May 16, 1975

U. S. Geological Survey
P. O. Drawer U
Artesia, New Mexico 88210

Re: Application for Permit to Drill
Empire Abo Unit K181
1440' FWL & 2050' FSL (Unit Letter K)
Section 1-T18S-R27E, Eddy County, New Mexico

1. We will exit off U. S. Highway 82 south approximately 13 miles east of Artesia, New Mexico. Attached is Exhibit #1 on which proposed location in Section 1 has been indicated and existing roads.
2. Planned access roads: none planned.
See Exhibit #1.
3. Location of existing wells:
See Exhibit #2.
4. Lateral roads to well locations:
No new lateral roads proposed.
See Exhibit 1.
5. Location of Tank Battery:
See attached Exhibit #4.
6. Location and type of water supply:
Water to be purchased from city of Carlsbad
(water line running through Empire Abo Unit).
7. Methods for handling waste disposal:
Solid waste will be buried on location.
8. Location of camp:
No camp proposed.
9. Location of airstrip:
No airstrip proposed.

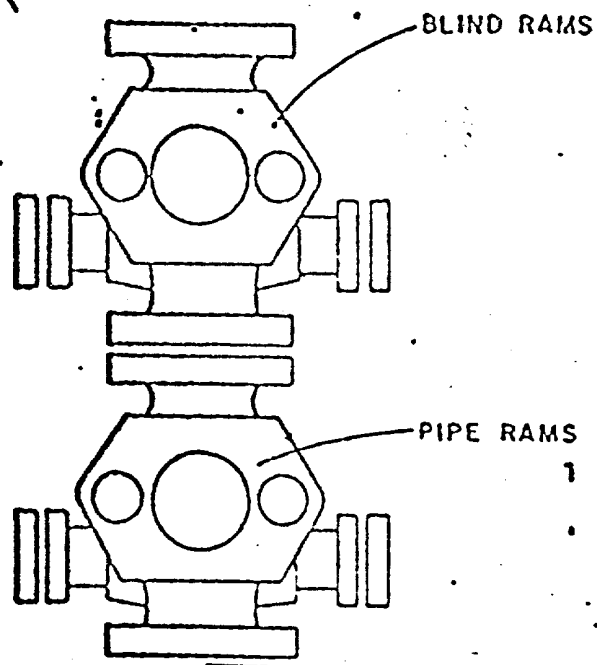
Application for Permit to Drill

Empire Abo Unit K181

Page 2

May 16, 1975

10. Location of layout to include position of the rig, mud tanks, reserve pits, pipe racks, etc: Rig drilling mat attached. See Exhibit #3 attached.
11. Plans for restoration of the surface. Graded and levelled to contour of surrounding area.
12. Any other information that may be used to evaluate the impact on environment: The area is generally level and of barren surface vegetation. No impact of significance to environment.



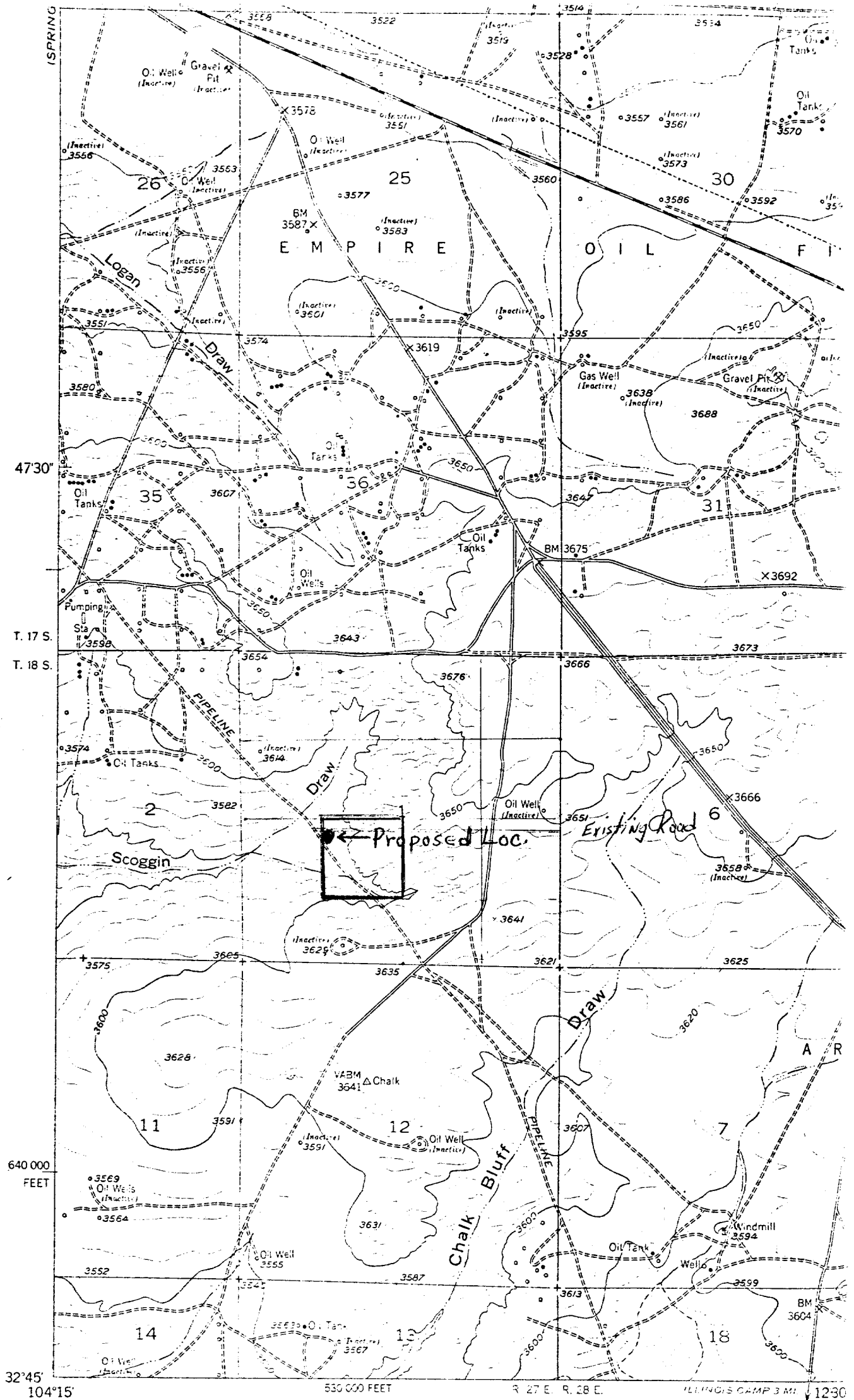
ATLANTIC RICHFIELD COMPANY
Blow Out Preventer Program

Lease Name Empire Abo Unit K

Well No. 181

Location 1440' FWL & 2050' FSL, Sec. 1,
T-18S, R-27E, Eddy Co., N. M.

BOP to be tested before installed on well and will be maintained in good working condition during workover. All wellhead fittings to be of sufficient pressure to operate in a safe manner.



Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS

Culture and drainage in part compiled from aerial photographs
taken 1946. Topography by plane-table surveys 1955

Polyconic projection. 1927 North American datum
10,000-foot grid based on New Mexico coordinate system,
east zone

All oil wells, except inactive are dry, capped, or abandoned

SCALE - 1" = 2000' EXHIBIT #1

12°
TRUE NORTH
MAGNETIC NORTH

APPROXIMATE MEAN
DECLINATION, 1965

LAKE MC MILLAN NORTH

R 28 E

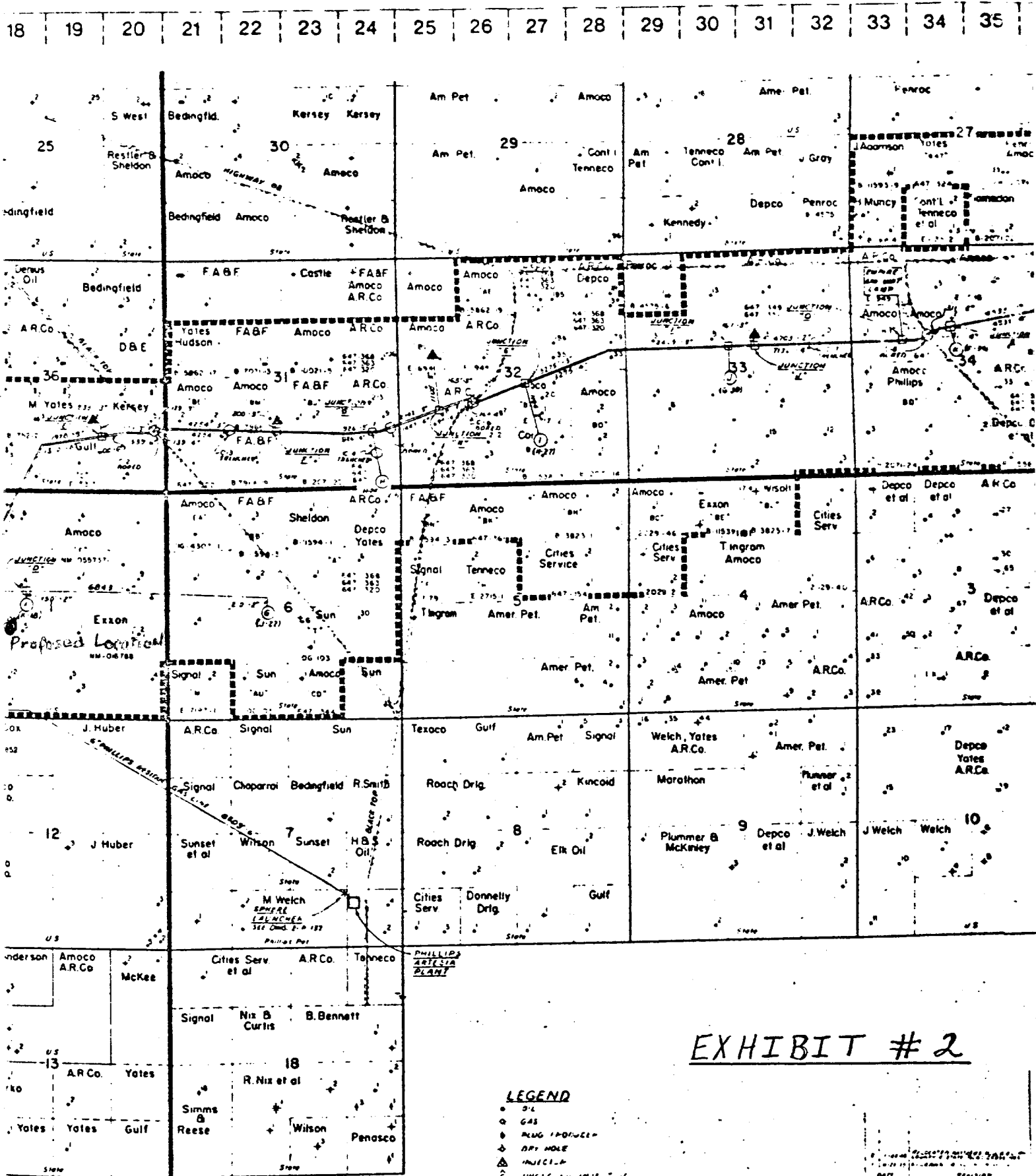


EXHIBIT # 2

LEGEND

- OIL
- GAS
- MUG PRODUCE
- DRY HOLE
- INJECTION
- PROPOSED INJECTION
- RAILROAD UNIT BOUNDARY
- TANK BATTERY
- INJECTION WELL
- INJECTION LINES
- PIPELINE JUNCTION
- HIGHWAY
- ROAD CROSSINGS
- INJECTION FACILITIES

Atlantic Richfield Company
Eddy County, New Mexico
EMPIRE ABO FIELD
GAS INJECTION FIELD
PHILLIPS RESERVE GAS FIELD
Scale: 1" = 1 mile
Date: 10/1/60
By: [Signature]
Checked: [Signature]

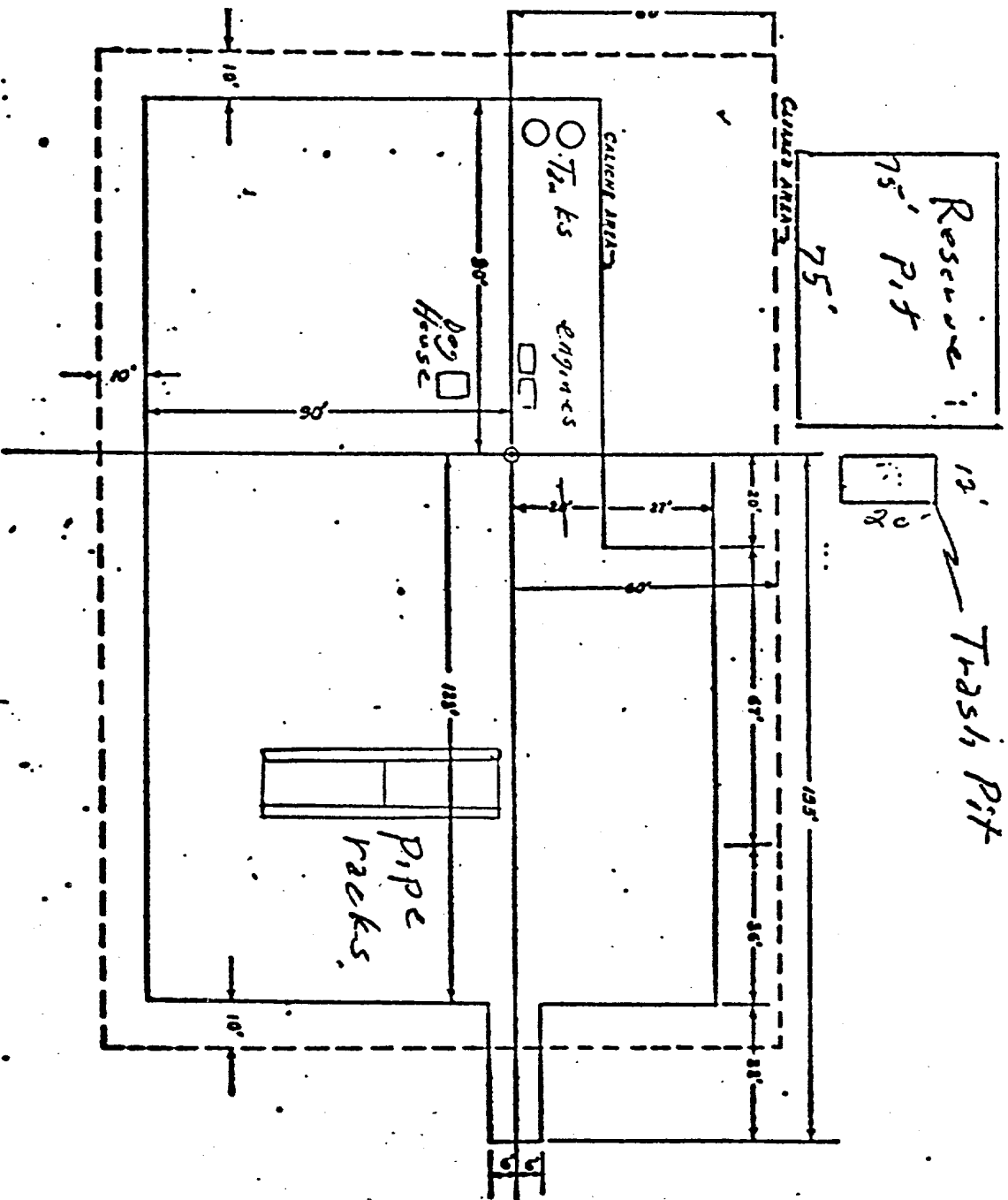


Exhibit #3

SPECIFICATIONS--

- A. LOCATION
1. CONTRACTOR SHALL FURNISH, HAUL, DEM SHED, AND COMPLETE CALCUL MINIMUM SHALL BE 6" COMPACTED. INSIDE SHALL BE APPLIED AT THE APPROXIMATE RATE OF 1 GALLON PER 50 SQ. FT. IN AREA OUTLINE BY 3 AREA WITH DASHED LINE SHALL BEHOLD WITH PAD.
- B. ROAD WHERE APPLICABLE
1. ROAD SHALL BE BUILT IN THE DESIGNATION AT A MINIMUM OF 14" WIDE WITH CURBS AND 1 SUCH AS TO ACCOMMODATE LOADED TRUCKS
2. ROAD SHALL BE COVERED WITH 6" COMPACTED USING WATER AT THE RATE OF APPROX. ONE GALLON PER 50 SQ. FT.
3. ATLANTIC SHALL FURNISH AT THE LOCAR, IN CATTLEGUARD, TURNER 3415, AND POST. CONTRACTOR SHALL INSTALL CATTLEGUARD, LANDOWNER'S SPECIFICATIONS.
4. EXTRA CALCUL FOR ALL TURNING RADI BE ANTICIPATED AND LINEAR MEASUREM BOD SHALL INCLUDE SUCH EXTRA CALCUL REQUIREMENTS.
- C. GENERAL
1. DRILLING MAT CONTAINS AN ESTIMATED CU YDS. 10000 MEASUREMENT.
2. CONTRACTOR SHALL BE RESPONSIBLE ALL ROYALTIES INCLUDING PIT ENTRY FEE, IF ANY.
3. CELLAR TO BE BEYOND WOOD FRAME.

BLUE PRINT SHEET	
NO.	DESCRIPTION
1	STANDARD DRILLING MAT
2	FOR WELLS LESS THAN 8000 FT.
3	FOR WELLS 8000 FT. AND DEEPER
4	FOR WELLS 12000 FT. AND DEEPER
5	FOR WELLS 16000 FT. AND DEEPER
6	FOR WELLS 20000 FT. AND DEEPER
7	FOR WELLS 24000 FT. AND DEEPER
8	FOR WELLS 28000 FT. AND DEEPER
9	FOR WELLS 32000 FT. AND DEEPER
10	FOR WELLS 36000 FT. AND DEEPER
11	FOR WELLS 40000 FT. AND DEEPER
12	FOR WELLS 44000 FT. AND DEEPER
13	FOR WELLS 48000 FT. AND DEEPER
14	FOR WELLS 52000 FT. AND DEEPER
15	FOR WELLS 56000 FT. AND DEEPER
16	FOR WELLS 60000 FT. AND DEEPER
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18	FOR WELLS 68000 FT. AND DEEPER
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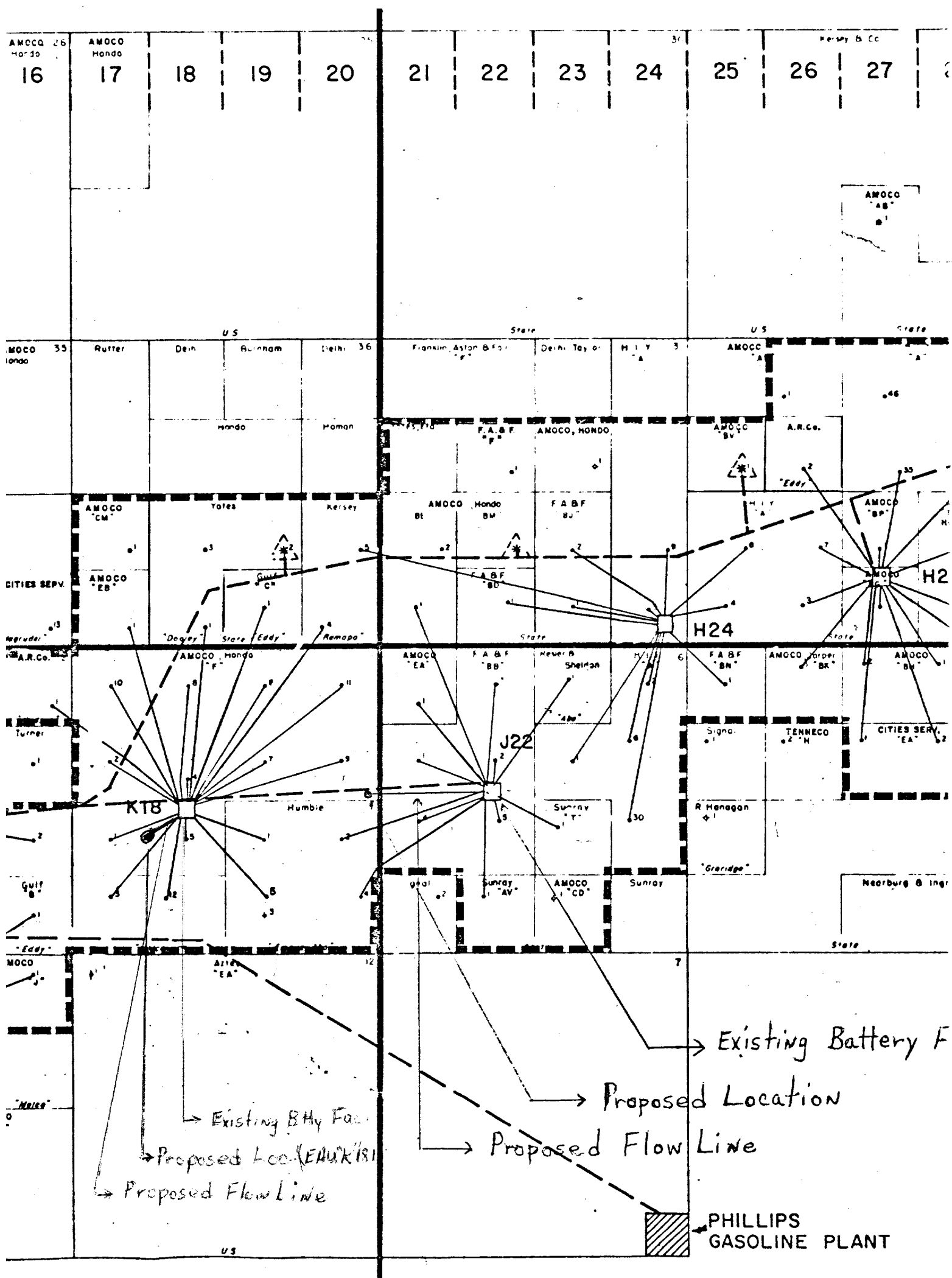


EXHIBIT # 1