

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

2501' FNL & 20' FEL (Unit Letter H)

At proposed prod. zone

2501' FNL & 20' FEL (Unit Letter H)

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. 20' to Lease Line
(Also to nearest drlg. unit line, if any)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. from EAU J-20

Approx. 640'

19. PROPOSED DEPTH
6225'

20. ROTARY OR CABLE TOOLS

Rotary

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

3652.5' GR

22. APPROX. DATE WORK WILL START*

05/19/75

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	6225'	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, OFFICERECEIVED
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 Dist. Drilling Supervisor

DATE May 13, 1975

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY
CONDITIONS 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THIS APPROVAL IS RESCINDED IF OPERATIONS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

DECLARED WATER BASIN

*See Instructions On Reverse Side

CASING MUST BE CIRCULATED

NOTIFY USGS IN SUFFICIENT TIME TO

WITNESS CEMENTING THE 8" CASING

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form O-102
Supersedes O-12H
Effective 12-65

All distances must be from the outer boundaries of the Section

Operator Atlantic Richfield Company			Lease Empire Abo Unit "J"		Well No. 201
Section H	Section 1	Township 18 South	Range 27 East	County Eddy	
Actual Production of Well: 2501 feet from the North line and 20 feet from the East line					
Ground Level Elev. 3652.5	Producing Formation Abo Reef		Pool Empire Abo	Estimated 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?

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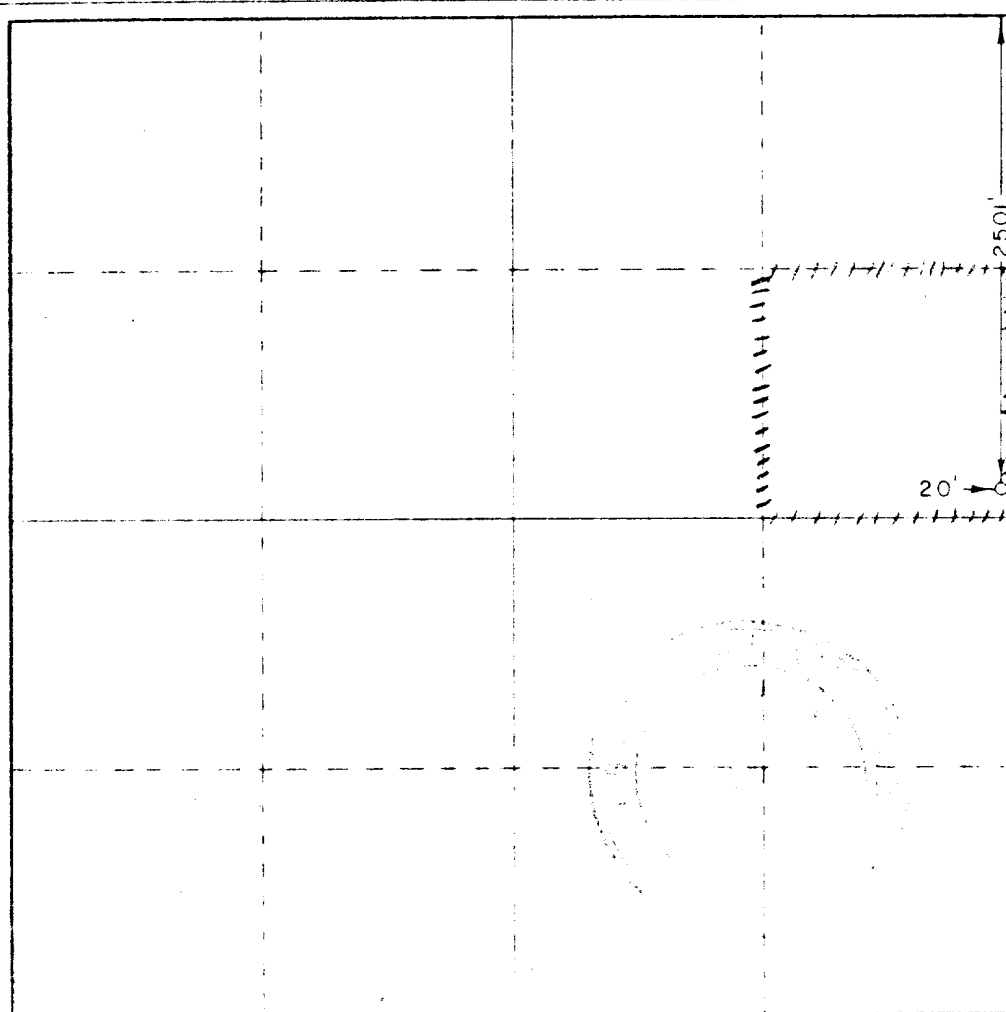
MAY 26 1975

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization O.C.C.

ARTESIA, OFFICE

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]

Dist. Drilling Supervisor

Atlantic Richfield Company

May 16, 1975

I hereby certify that the well location shown on this plat was derived 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.

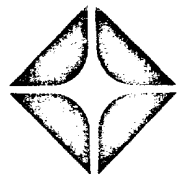
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MAY 19 1975

**U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

February 28, 1975

[Signature]



May 16, 1975

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

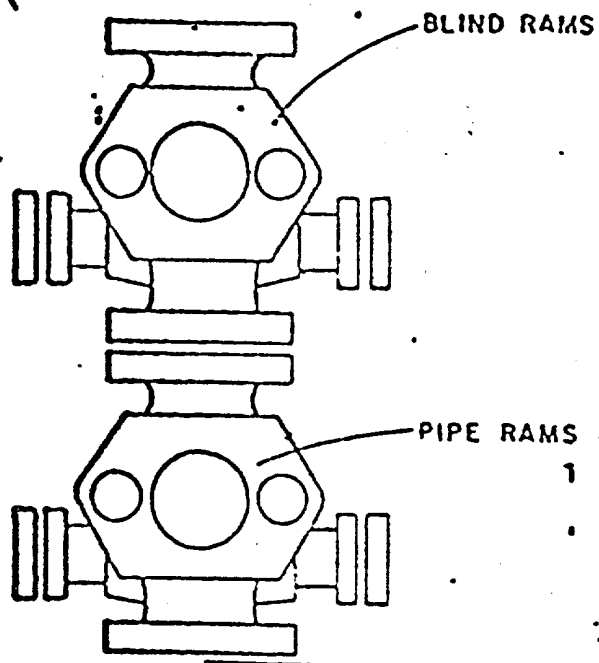
Re: Application for Permit to Drill
Empire Abo Unit J 201
2501' FNL & 20' FEL (Unit Letter H)
Section 1-T18S-R27E
Eddy County, New Mexico

1. We will exit off U.S. Highway 82 south approximately 8 miles east of Artesia, New Mexico. Attached is Exhibit #1 on which proposed location in Section 1 has been indicated.
2. Planned access roads:
Approximately 600' new road. Exit south off existing road between Empire Abo Unit well #J-20 & J-21 as shown on Exhibit #1.
3. Location of existing wells:
Shown on attached Exhibit #2.
4. Lateral roads to well locations:
See data given for Nos. 1 & 2.
5. Location of Tank Battery:
See 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.

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ARTESIA, NEW MEXICO

U. S. Geological Survey
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10. Location of layout to include position of the rig, mud tanks, reserve pits, pipe racks, etc. Rig drilling mat attached.
See Exhibit #3.
11. Plans for restoration of the surface.
Graded and leveled 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.



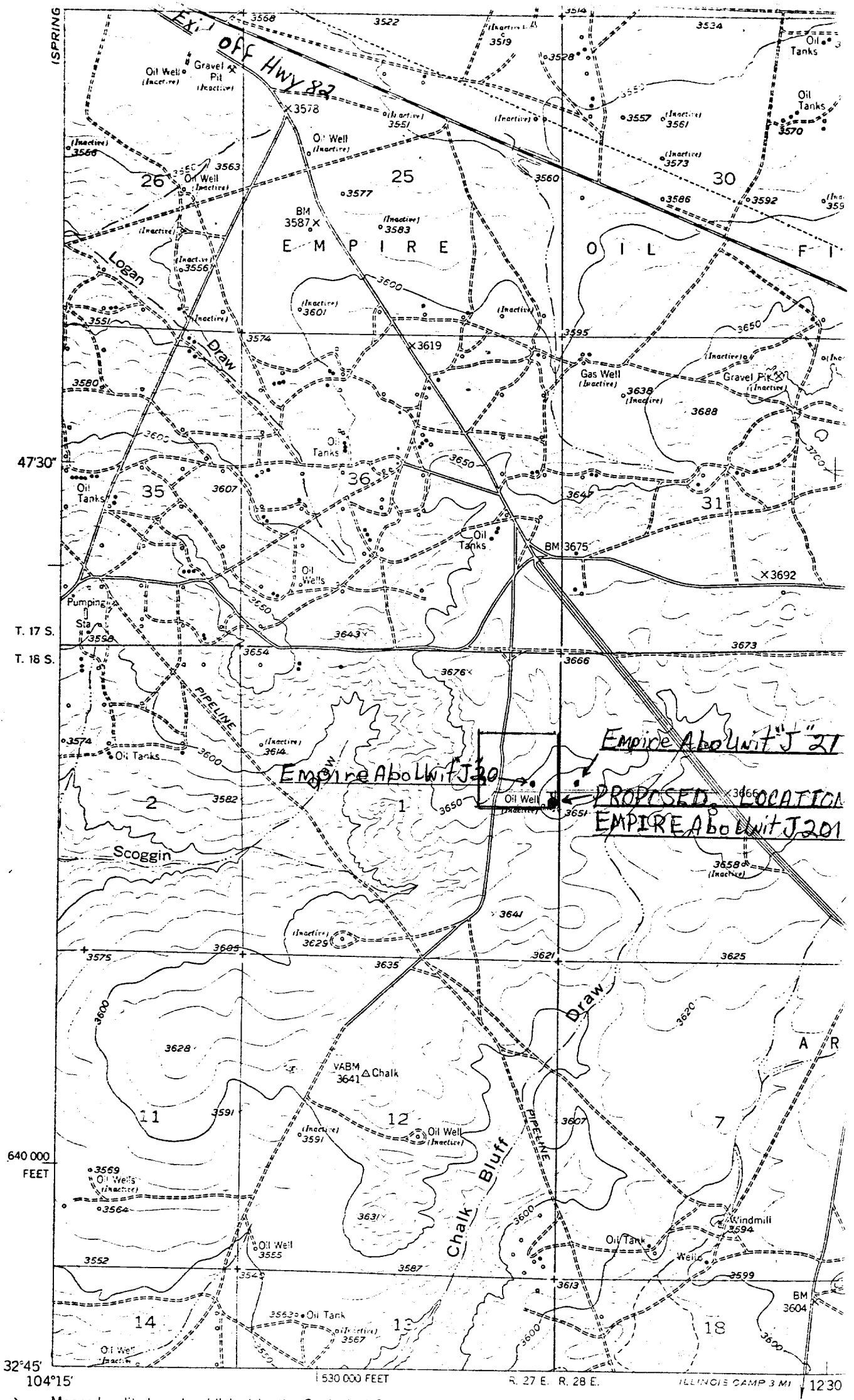
ATLANTIC RICHFIELD COMPANY
Blow Out Preventer Program

Lease Name Empire Abo Unit "J"

Well No. 201

Location 2501' FNL & 20' FEL
(Unit Letter H)

Eddy County, New Mexico
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 labeled inactive are dry, capped, or abandoned

SCALE - 1" = 2000'

EXHIBIT #1

TRUE NORTH
 MAGNETIC NORTH

APPROXIMATE MEAN
 DECLINATION 1955

LAKE MC MILLAN NORTH

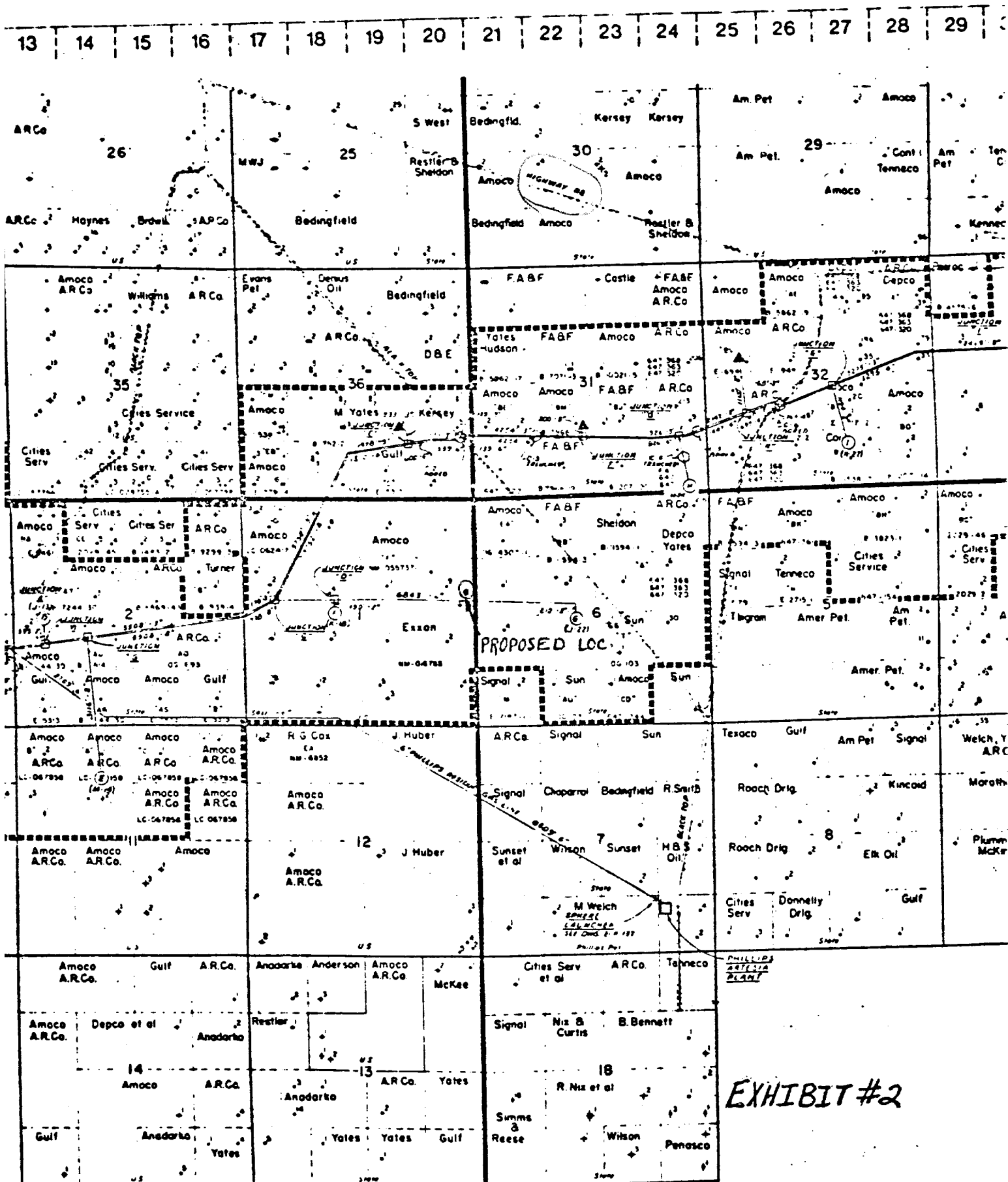


EXHIBIT #2

REFERENCE LISTS

JUN 4 1964

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1942. 1. 1. 1942. 1. 1.

2000

2490.1: 12. 0 /

LEGEND

2.6

Gas

AUG 14 01
AUG 14 01

10-1-1

8-20-68, 148

PH 21-1188

7444 441

INJECTION

200.00

HIGHWAY 1

NOVA 3 (RDS)

INJECTION

Atlantic Richfield Company
 1000 West 10th Avenue
 Denver, Colorado 80202

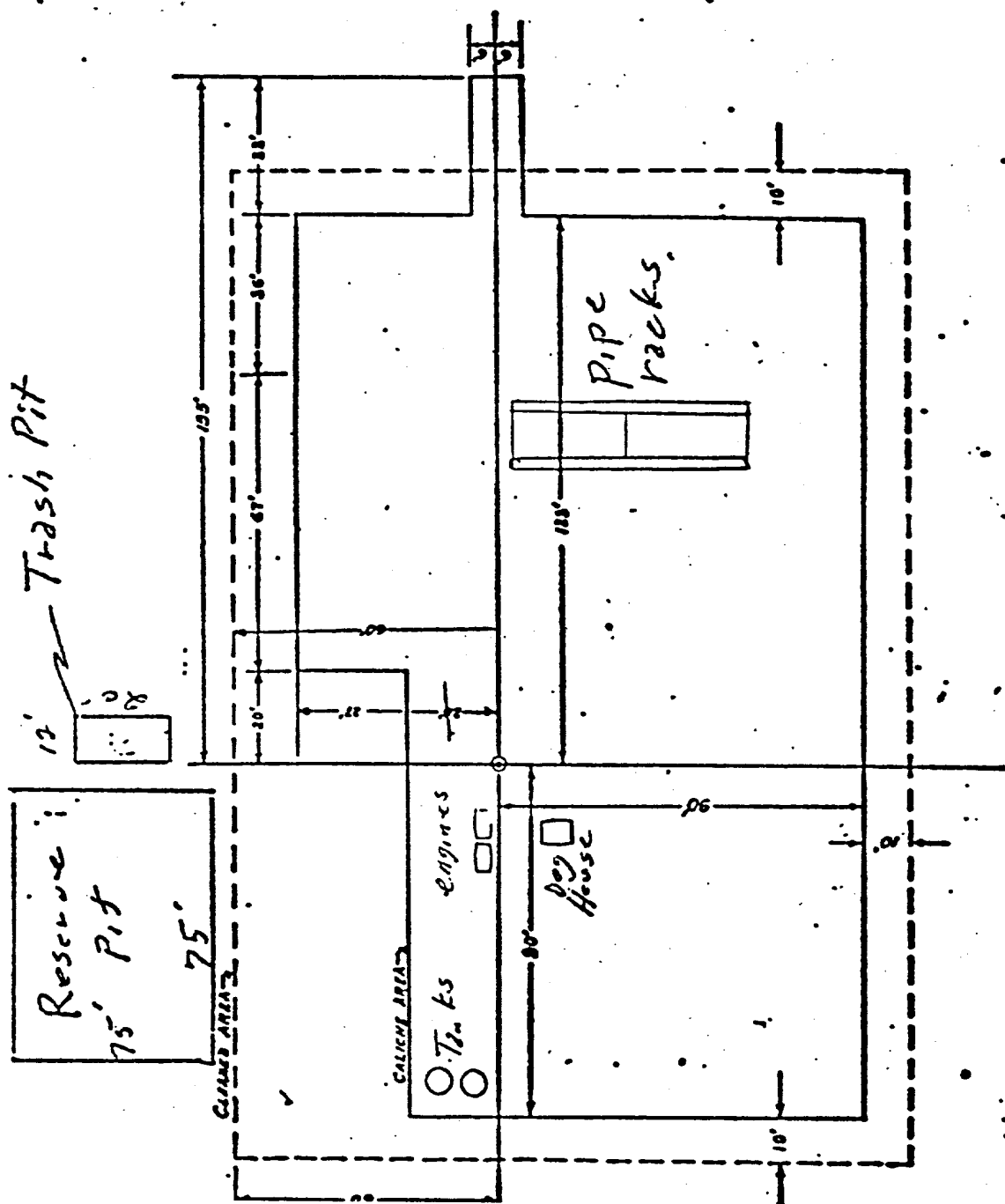
EMPIRE ABO FIELD
EDDY COUNTY, NEW MEXICO

GAS INJECTION. FUEL GAS
PHILLIPS RES DUE GAS PIPE

100

[Illegible text]

12' Trash Pit



SPECIALTIONS—

- A. LOCATION
1. CONTRACTOR SHALL FURNISH, Haul, DEM
SPREAD, AND CONTACT CALICHE MINIMUM
SHALL BE 6" COMPACTED. WATER SHALL A
APPLIED AT THE APPROXIMATE RATE OF 1
GALLON PER SQ FT. IN AREA OUTLINE BY 3
AREA WITH A DASHED LINE SHALL BE BUILT
WITH PAD.
- B. ROAD WHERE APPLICABLE
1. ROAD SHALL BE BUILT IN THE BEST LOCATION AND
BE A MINIMUM OF 12' WIDE WITH CURVES AND
SUCH AS TO ACCOMPANY LOADED TRUCKS
2. ROAD SHALL BE COVERED WITH 6" COMPACTED
USING WATER AT THE RATE OF APPROX. ONE CU
YD PER 30 SQ. FT.
3. ATLANTIC SHALL FURNISH AT THE LOCATION
A) CATTLE GUARD, TIMBER BARS, AND POST.
CONTRACTOR SHALL INSTALL CATTLE GUARD
LANDOWNER'S SPECIFICATIONS.
4. EXTRA CHARGE FOR ALL TURNING RADIUS
BE ANTICIPATED AND LINEAR MEASUREMENT
BARS SHALL INCLUDE SUCH EXTRA CHARGE
REQUIREMENTS.
- C. GENERAL
1. DRILLING HAT CONTAINS AN ESTIMATED
CU YD. 100% MEASUREMENT.
2. CONTRACTOR SHALL BE RESPONSIBLE
ALL MATERIALS INCLUDING PIT ENTRY
PIT, IF ANY.
3. CELLAR TO BE 2500'S WOOD FRAME.

[illegible]