

N. M. O. C. C.
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

900' FEL & 10' FNL (Unit Letter A)

At proposed prod. zone

900' FEL & 10' FNL (Unit Letter A)

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)

10' to Lease Line

16. NO. OF ACRES IN LEASE
4,184.86 Federal
7,154.29 State18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.Approx. 750'
from EAU M1219. PROPOSED DEPTH
6200'

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

3511.2' GR

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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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O. C. C.

ARTESIA, OFFICE

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

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

THIS APPROVAL IS RESCINDED IF OPERATIONS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 CASING.

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-1
Supersedes O-124
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Atlantic Richfield Company		Empire Abo Unit "M"		Well No. 121
A	10	18 South	27 East	Eddy
900	East	10	North	
3511.2	Abo Reef	Empire Abo	40	

1. 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, pooling, etc.

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X Yes _____ No _____ Unitization _____

If more than one lease is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, pooling, etc. _____

No lease has been dedicated to the well, and all interests have been consolidated by communitization, unitization, pooling, etc. _____

O. C. C.
ARTESIA, OFFICE

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

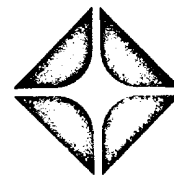
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MAY 19 1975

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

November 8, 1974

[Signature]



May 13, 1975

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

RE: Application for Permit to Drill Empire Abo Unit M 121
900' FEL and 10' FNL (Unit Ltr A), Sec. 10-18S-27E, Eddy Co., New Mex.

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 10 has been indicated and existing roads.
2. Planned access roads:
No planned access road. The well location is located adjacent to existing roads.
3. Location of existing wells:
See Exhibit #2 attached.
4. Lateral roads to well locations:
See Data in Exhibit 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.
10. Location of layout to include position of the rig, mud tanks, reserve pits, pipe racks, etc:
See Exhibit #3.
11. Plans for restoration of the surface:
Graded and levelled to contour of surrounding area.

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

May 13, 1975

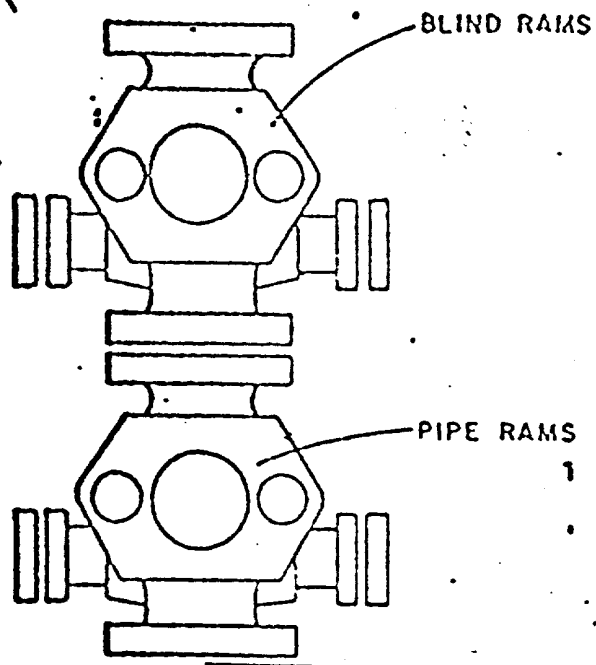
12. Any other information that may be used to evaluate the impact on environment:

The area is generally level and of barren surface vegetation. No impact of significance to environment.

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MAY 17 1975

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



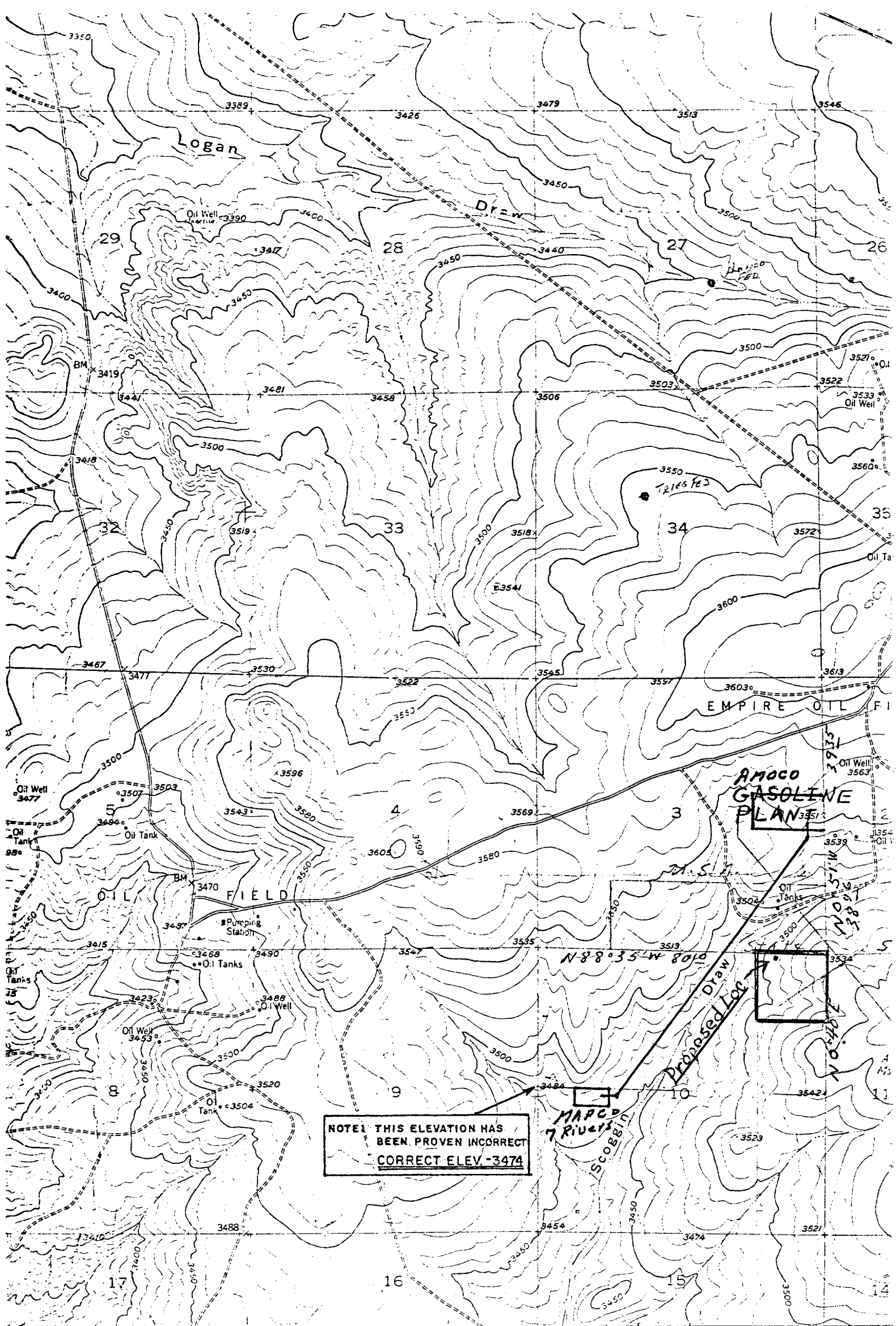
ATLANTIC RICHFIELD COMPANY
Blow Out Preventer Program

Lease Name Empire Abo Unit M

Well No. 121

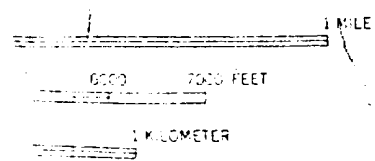
Location 900' FEL & 10'FNL, Sec. 10,
T-18S, R27E, Eddy Co., N. M.

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.



NOTE: THIS ELEVATION HAS
BEEN PROVEN INCORRECT
CORRECT ELEV - 3474

SCALE - 1" = 3000' EXHIBIT #1



ROAD CLASSIFICATION			
Heavy-duty	Medium-duty	Light-duty	Unimproved
U. S. Route	State Route		

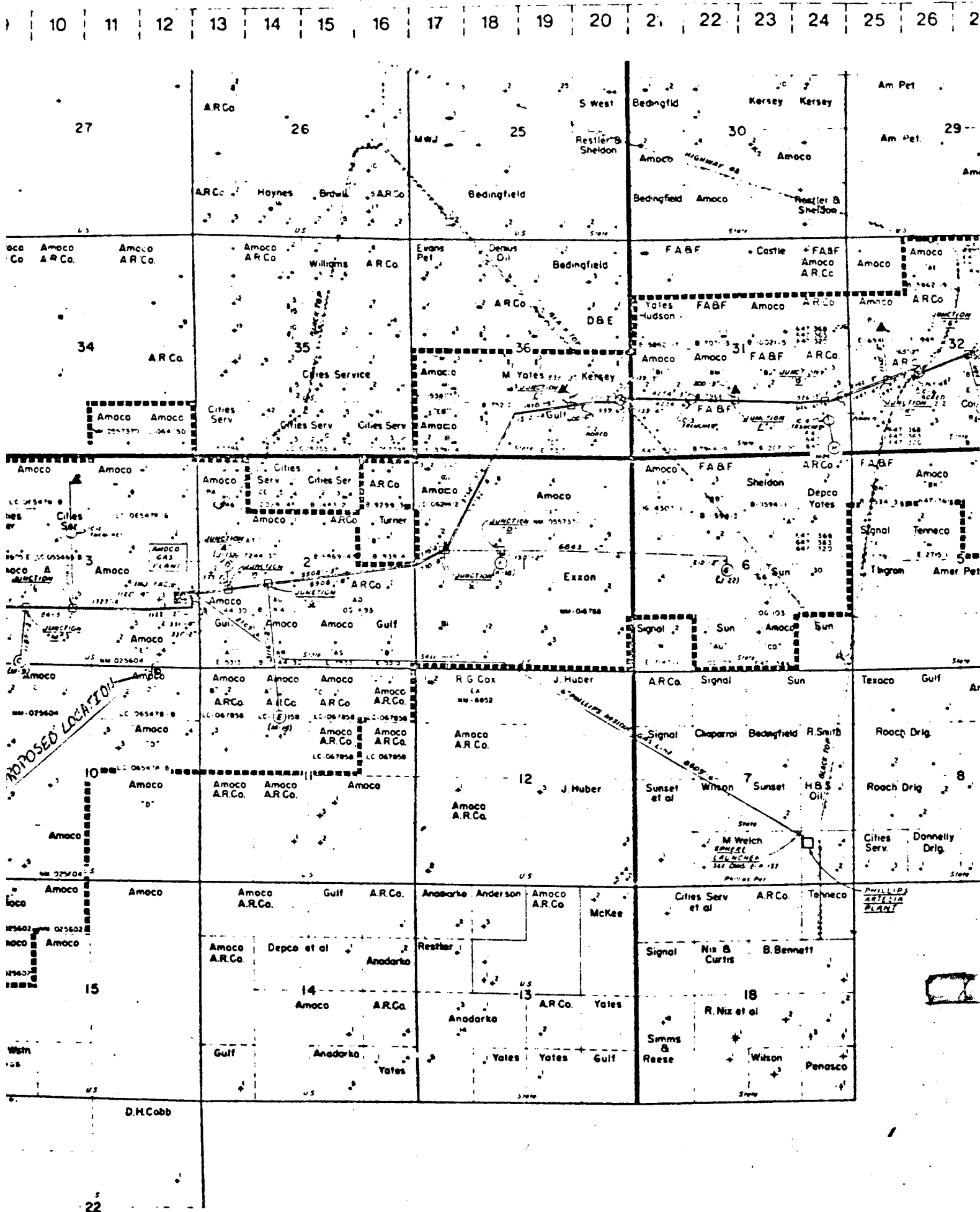


EXHIBIT # 2

- LEGEND

- 3/4
- GAS
- ALUG HOODS -
- API HOLE
- INJECTION
- INJECTION TUBE
- ALLEGEDLY BY ACQUAINT
- TANK BATTERY
- INJECTION WELL
- INJECTION GAS (FUEL GAS) LINES
- PIPELINE JUNCTION
- HIGHWAY & BLACKTOP ROAD
- ROAD CROSSINGS
- INJECTION FACILITIES

DATE 07-13-88

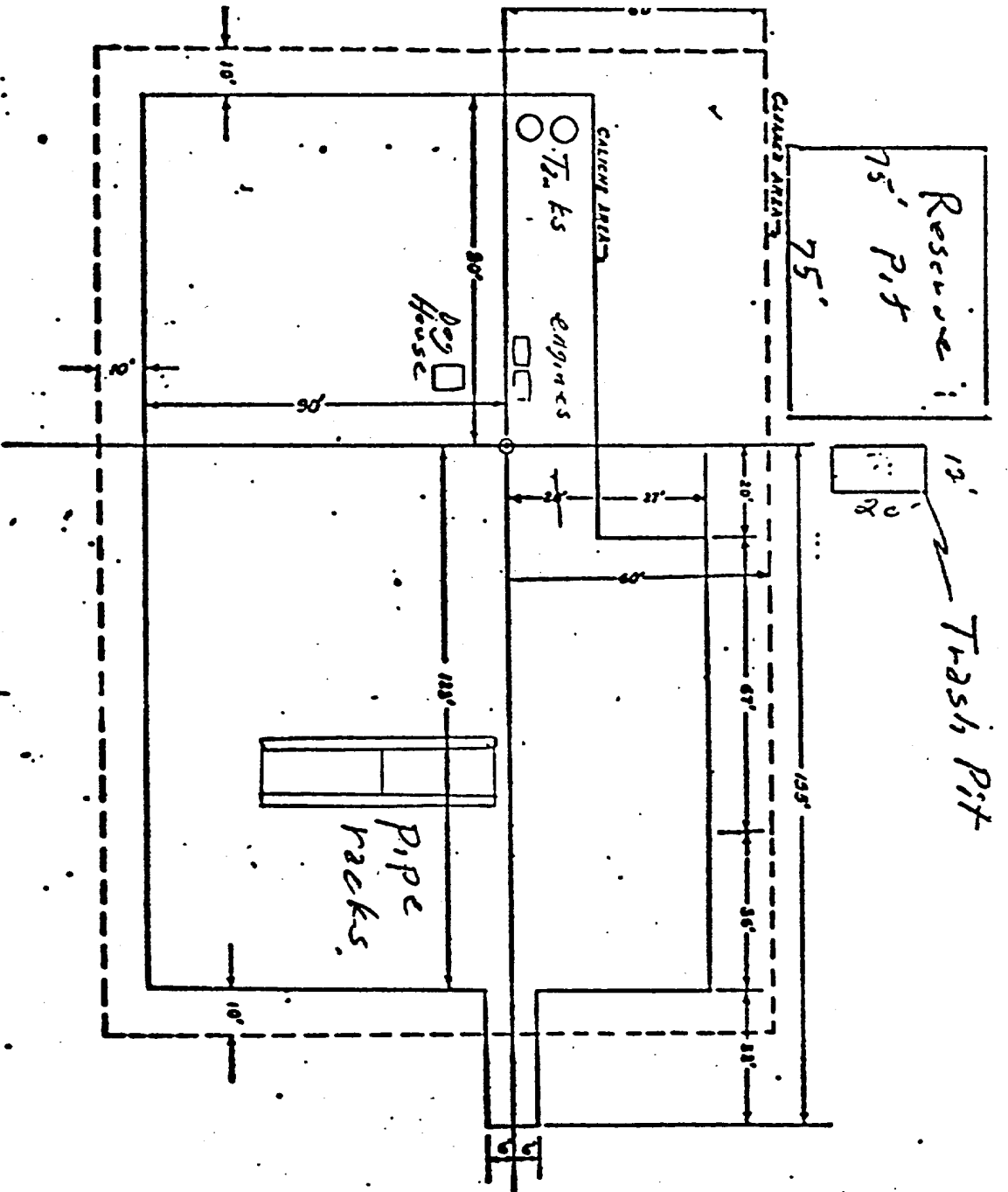
Atlanta-Rachis info Comp party
also Bureau Training Bureau
Toronto Training Montreal 10-88

EMPIRE ABO FI
EDDY COUNTY, NE W ME

GAS INJECTION FIELD GA
PHILLIPS RESERVE GAS F.

STATE OF TEXAS

SEARCHED INDEXED
SERIALIZED FILED



SPECIFICATIONS-

A. LOCATION

1. CONTRACTOR SHALL FURNISH, MAINT, DEM SPREAD, AND CONTACT CALIFORNIA MINIMUM SHALL BE 6" COVERED. INHER SHALL BE APPLIED AT THE APPROXIMATE RATE OF GALLON PER 50 FT. IN AREA OUTLINE BY 3 AREA WITH DASHED LINE SHALL BE IDENTIFY WITH PAB.

B. ROAD INFRASTRUCTURE

1. ROAD SHALL BE BUILT IN THE ASSOCIATION A BE A MINIMUM OF 12" WIDE WITH CURVES AND 12" SUCH AS TO ACCOMMODATE LOADED TRUCKS
2. ROAD SHALL BE COVERED WITH 6" CONCRETE USING WATER AT THE RATE OF APPROX. ONE GAL PER 50 FT.
3. ATLANTIC SHALL FURNISH AT THE LOCAL, MCATTEGUARD, TOWER SITES AND PORT, CONTRACTOR SHALL INSTALL CATTLE GUARD, LANDOWNER'S SPECIFICATIONS.
4. EXTRA CALIFORNIA FOR ALL TURNING RADI BE ANTICIPATED AND LINEAR MEASUREMENT BID SHALL INCLUDE SUCH EXTRA CALIFORNIA REQUIREMENTS.

C. GENERAL

1. DRILLING MAT CONTAINS AN ESTIMATED CU YDS. 4000 MEASUREMENT.
2. CONTRACTOR SHALL BE RESPONSIBLE ALL ROYALTIES INCLUDING PIT ENTRY FEE, IF ANY.
3. CELLAR TO BE BEERED WOOD FRAME.

BLUE PRINT RECORD	
NO.	DATE
1	1/1/19
2	2/1/19
3	3/1/19
4	4/1/19
5	5/1/19
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100	4/1/27

Atlanticfield Company
Engineering and Construction Dept.

STANDARD DRILLING MAT
FOR WELLS LESS THAN 8000 FT.

DATE	1/1/19
BY	1/1/19
CHECKED	1/1/19
APPROVED	1/1/19

Exhibit # 3

