

Drawer DD

Artesia, NM 88901

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 ARCO Oil and Gas Company
Division of 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 1980' FNL & 660' FEL (Unit Ltr "H")

At proposed prod. zone as above

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

5 mi South of Riverside, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 330'

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

2150'

17. 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.

995' SSE

20. ROTARY OR CABLE TOOLS

Rotary

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

3493.3' GR

22. APPROX. DATE WORK WILL START*

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" OD	Conductor Pipe	30'	4 yds Redi-mix cmt
11"	8-5/8" OD	24# K-55	350'	100 sx CIRCULATE
7-7/8"	4-1/2" OD	9.5# K-55	2150'	575 sx CIRCULATE

Propose to drill an infill development well to more efficiently recover additional Grayburg San Andres reserves.

Surface csg depths approved verbally by Mr. Les Clements, NMOCD, Artesia, New Mexico on 3/29/83.

RECEIVED BY

OCT 17 1983

O. C. D.
ARTESIA OFFICE

SEP 22 1983

RECEIVED

Post ID-1
10-21-83
Mushac + BK

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

(This space for Federal or State office use)

TITLE Drlg. Engr.

DATE 9/19/83

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-101
Effective 1-1-83

All distances must be from the outer boundaries of the Section

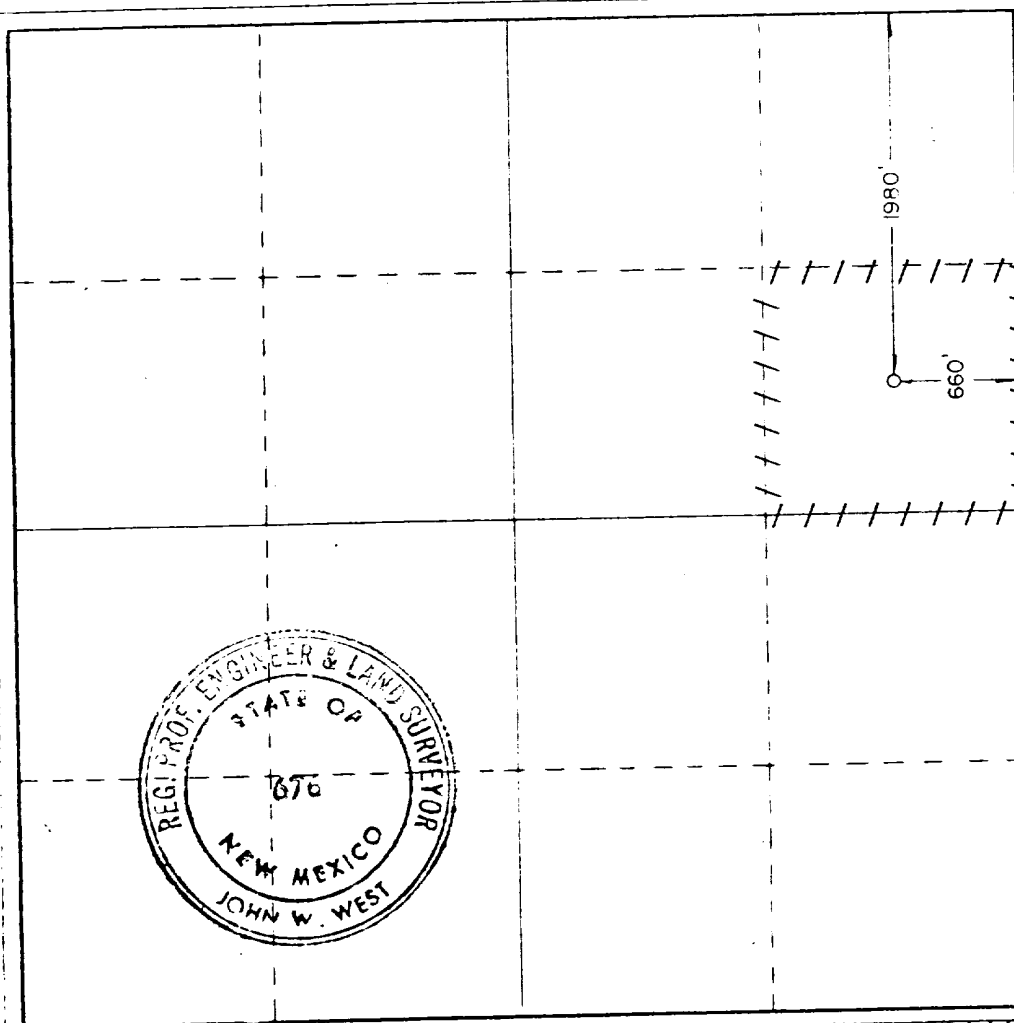
ARCO OIL & GAS		WEST RED LAKE UNIT		32
Section	Township	Range	County	
H	8	18 SOUTH	27 EAST	EDDY
Well Location Data				
1980	feet from the NORTH	660	feet from the EAST	
3493.3	Producing Formation	Red Lake - R-G-SH	40	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Unitization #14-08-0001-8970

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

Ronald E. Baldridge
DrIng Engr.

Company ARCO Oil and Gas Co.
Division of Atlantic Richfield

Date 9/14/83

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

SEPTEMBER 8, 1983

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No JOHN W. WEST, 676
RONALD J. EIDSON, 3239

330 660 90 1320 1650 1980 2310 2640 2000 1500 1000 500

To supplement USGS Form 9-331C " Application for Permit to Drill, Deepen or Plugback", the following additional information is submitted to comply with USGS Order NTL-6.

Operator: ARCO Oil and Gas Company

Lease & Well No: West Red Lake Unit #32

Location: Unit Letter H

Section 8-T18S-R27E

Eddy County, New Mexico

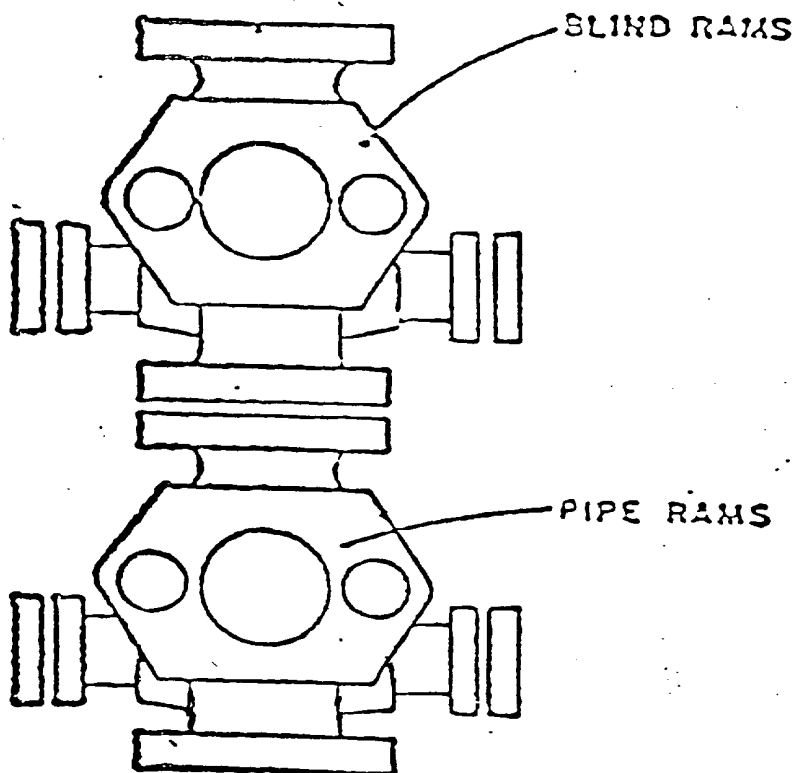
Lease, New Mexico 14-08-0001-8970

Development well X Exploratory well

1. See Well Location and Acreage Dedication Plat Form C-102.
2. See Form 9-331C for elevation above sea level of unprepared location.
3. The geologic name of the surface formation is: Permian Artesian Group
4. The type of drilling tools and associated equipment to be utilized will be: Rotary
5. The proposed drilling depth will be 2150' .
6. The estimated tops of important geologic markers are:

Grayburg	± 1250'
San Andres	± 2000'
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

Water Reef	+ 900'	
Grayburg	+1250'	Oil & Gas
San Andres	+2000'	Oil & Gas
8. The proposed casing program including the size, grade and weight-per-foot of each string has been indicated on Form 9-331C. All strings of casing will be: New X Used .
9. See Form 9-331C for amount of cement.



ARCO Oil & Gas Company

Division of Atlantic Richfield Company

Blow Out Preventer Program

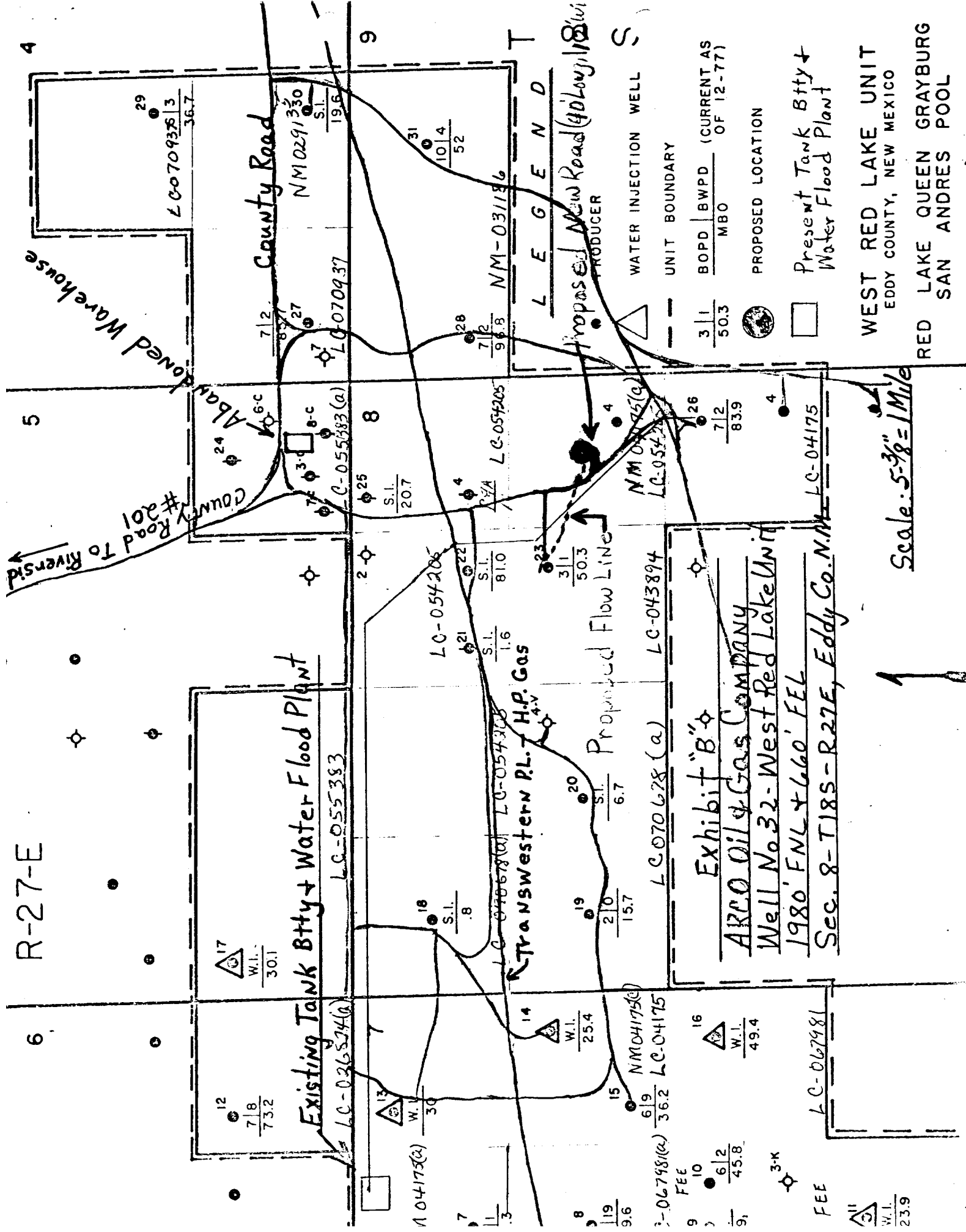
Lease Name West Red Lake Unit

Well No. 32

Location 1980' FNL & 660' FEL
Sec 8-18S-27E, Eddy County

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

R-27-E



W.L. 23.9

FEE

3-K

6/2 45.8

10

3-06798(a) 36.2

NM04175(c)

15

W.L. 25.4

14

W.L. 30

13

W.L. 30

12

W.L. 73.2

7/8

30.1

W.L. 30.1

17

W.L. 30.1

12

W.L. 73.2

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W.L. 49.4

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Existing Road

40' New Road

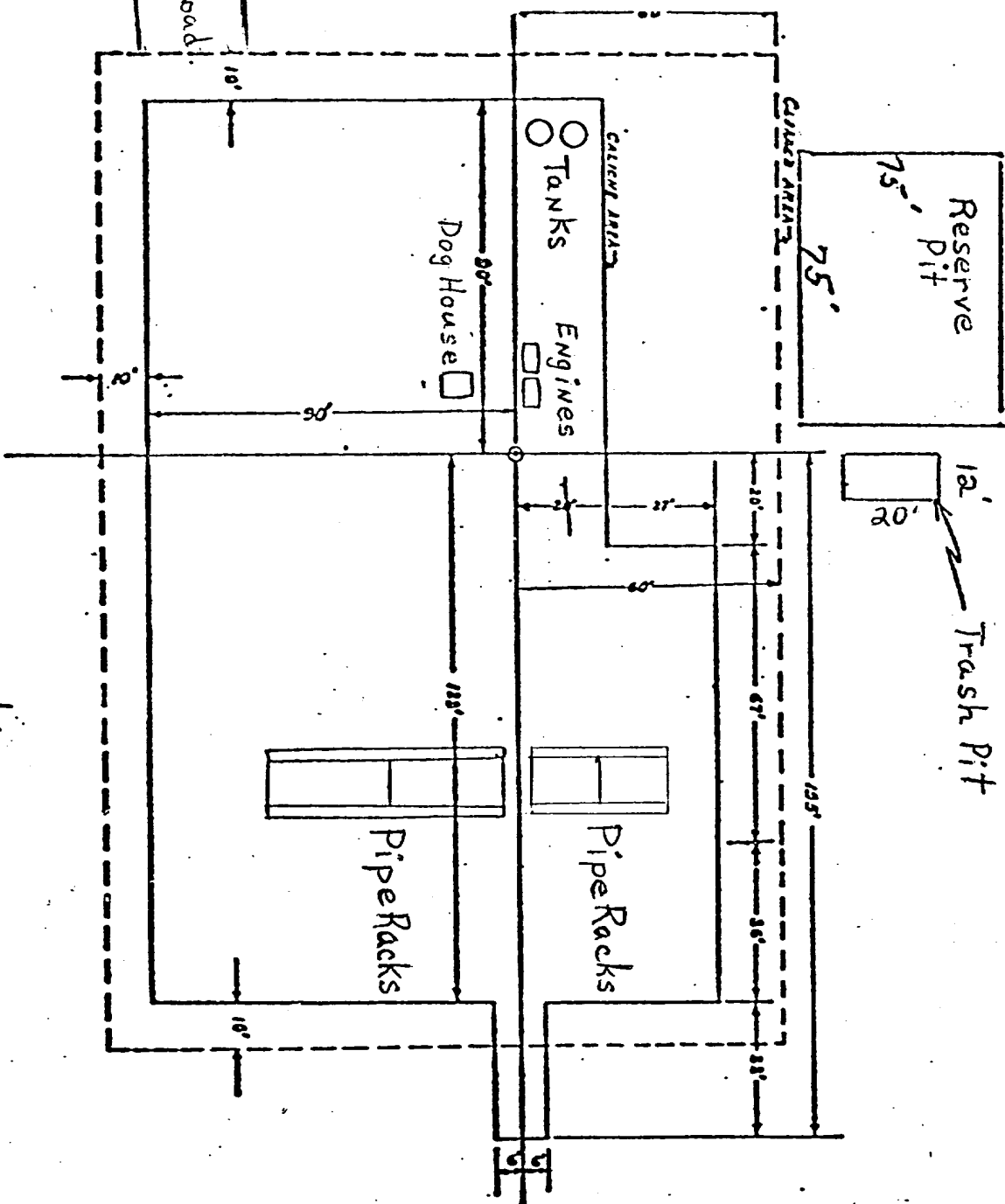


Exhibit "D"

Rig Layout - Approximate Size

AKCO Oil & Gas Company

Well No 32, West Red Lake Unit

Sec. 8-T18S-R27E, Eddy Co., N.M.

SPECIFICATIONS-

A. LOCATION

1. CONTRACTOR SHALL FURNISH, MAINT, DEMONSTRATE, AND COMPACT CALICHE MINIMUM SHALL BE 6" COMPACTED. HAIR SHALL BE APPLIED AT THE APPROXIMATE RATE OF 1 GALLON PER 50 SQ. FT. IN AREA OUTLINE OF 3 AREA WITH DASHED LINE SHALL BE MAINTAINED WITH P.O.

B. ROAD WHERE APPLICABLE

1. ROAD SHALL BE SUBMIT IN THE APPROPRIATE AREA AS A MINIMUM OF 12" AND WITH CURVES AND 15% AS TO ACCOMMODATE LOADED TRUCKS 2. ROAD SHALL BE COMPACTED WITH 6" COMPACTED USING WATER AT THE RATE OF APPROX. ONE CUBIC YD PER 50 SQ. FT.

3. ATLANTIC SHALL FURNISH AT THE LOCATION, IN CATTLE GUARD, TOWER, SIGN, AND POST. CONTRACTOR SHALL INSTALL CATTLE GUARD, LANDSCAPE SPECIFICATIONS. 4. EXTRA CALICHE FOR ALL TURNING SHALL BE ANTICIPATED AND LINEAR MEASUREMENTS SHALL INCLUDE SUCH EXTRA CALICHE REQUIREMENTS.

C. GENERAL

1. DRILLING HAT CONTAINS AN ESTIMATED CUBIC YD. 2000 MEASUREMENT. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROADS INCLUDING PIP ENTRY, IF ANY. 3. CILIAN TO BE 2000 WOOD PINE.

ALLIANT RICHFIELD COMPANY	
Production and Construction Dept.	
STANDARD DRILLING MAP	
FOR WELLS LESS THAN 8000 FT.	
DATE	1/1/76
BY	W. H. H.
FOR	W. H. H.
REVISIONS	
NO.	DESCRIPTION
1	1/1/76
2	1/1/76
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