

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

RECEIVED SUBMIT TRIPLICATE

(Other instructions on reverse side)

AUG 30 1984

O. C. D.

Form approved.
Budget Bureau No. 42-R1425.

22-015-24987

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 Co.

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

660' FNL & 860' FEL (Unit Ltr "A")

At proposed prod. zone

as above

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

4.5 miles East Artesia, New Mexico & South 4.8 miles

15. DISTANCE FROM PROPOSED*

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

840'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

720'

16. NO. OF ACRES IN LEASE

19. PROPOSED DEPTH

2150'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3448.1' GR

22. APPROX. DATE WORK WILL START*

9-1-84

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	48#	40'	3 yds. Redi-mix cement
11"	8-5/8" OD	24#	1100'	400 sx circ to surf
7-7/8"	5-1/2" OD	14#	2150'	650 sx circ to surf

Propose to drill a development well and further develop reserves in waterflood.

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

Elizabeth S. Bush

TITLE Drilling Engineer

DATE 8-20-84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

Posted
J.D.
API + NL Bank
8-31-84

**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

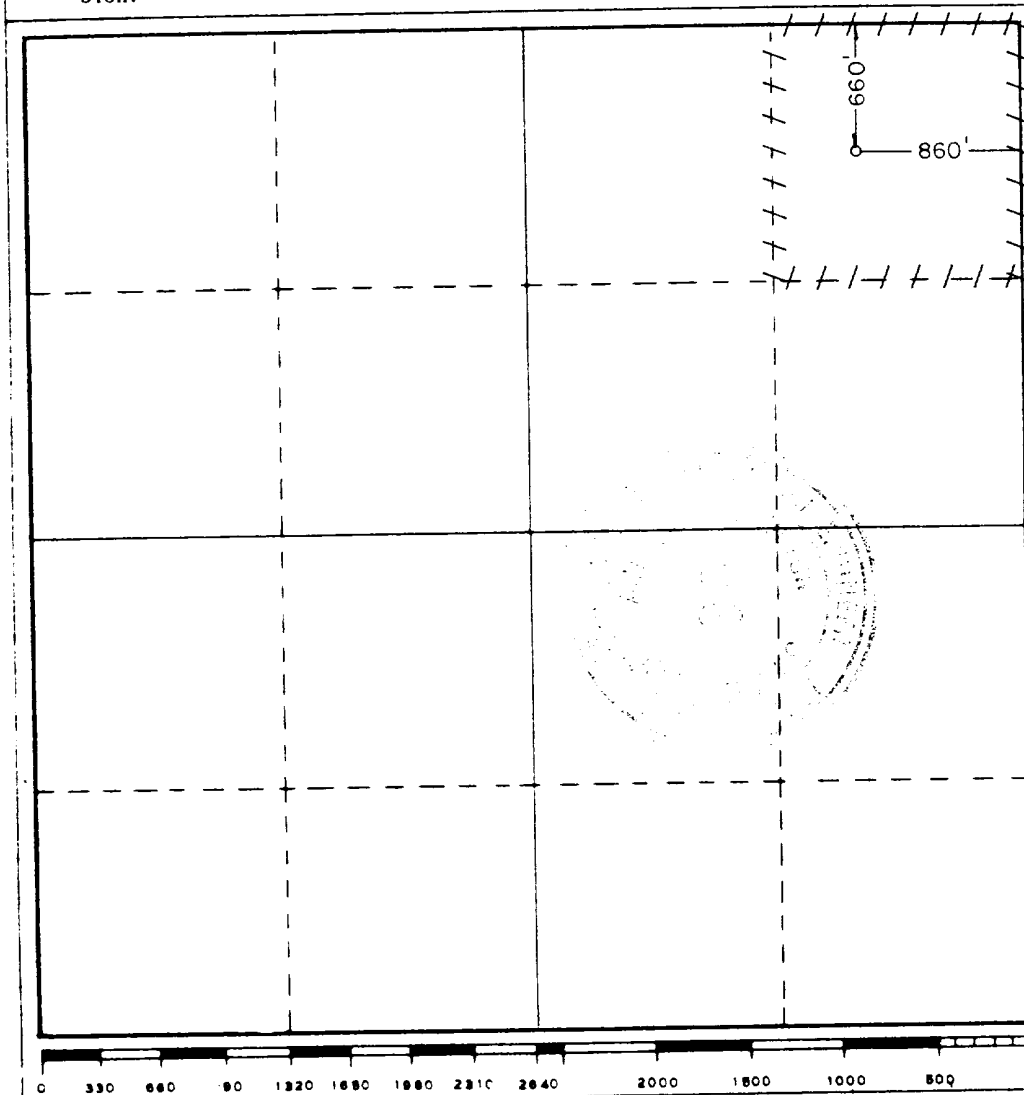
Operator Division of Atlantic Richfield Co. ARCO OIL & GAS COMPANY			Lease WEST RED LAKE UNIT		Well No. 33
Plot Letter A	Section 8	Township 18S	Range 27E	County EDDY	
Actual Footage Location of Well: 660 feet from the NORTH line and 860 feet from the EAST line					
Ground Level Elev. 3448.1	Producing Formation Grayburg San Andres		Pool Red Lake		Dedicated 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?

☒ 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.



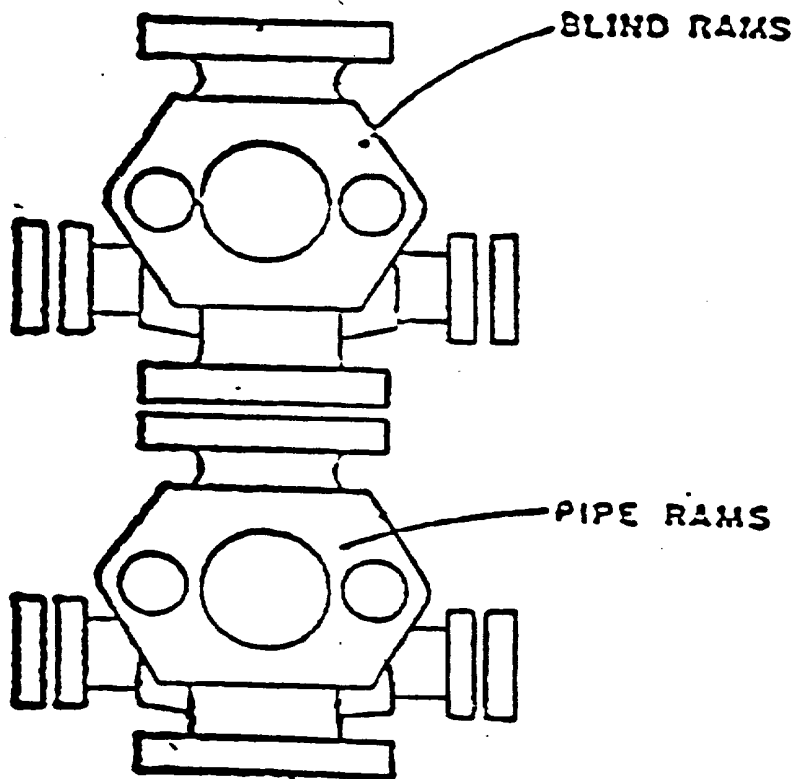
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Elizabeth S. Bush
 Position Drilling Engineer
 Company Div of Atlantic Richfield
ARCO Oil and Gas Company
 Date 8-20-84

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 7/31/84
 Registered Professional Engineer and/or Land Surveyor
John W. West
 Certificate No JOHN W. WEST, 676
RONALD J. EIDSON, 3239



ARCO Oil & Gas Company

Division of Atlantic Richfield Company

Blow Out Preventer Program

Lease Name West Red Lake Unit

Well No. 33

Location 660' FNL & 860' FEL (Unit Ltr "A")
Eddy County, New Mexico

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.

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 #33

Location: Unit Letter A

Section 8-18S-27E

Eddy County, New Mexico

Lease, New Mexico NM 7713

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 $\pm 1110'$
San Andres $\pm 1234'$
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

Water Reef	$\pm 900'$
Grayburg	$\pm 1110'$
San Andres	$\pm 1234'$
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.

13-3/8" OD 48# Conductor pipe will be set @ 40' and cemented with 3 yards Redi-mix. 8-5/8" OD 24# K-55 csg will be set @ 1100' and cemented with 275 sx Class "C" lite cmt contg $\frac{1}{4}$ #/sk flocele & 2% CaCl_2 followed by 125 sx Class "C" cmt contg 2% CaCl_2 . 5-1/2" OD 14# K-55 csg will be set @ 2150' and cmt'd w/650 sx Class "C" cmt contg 2% gel, 6# salt/sk & .3 of 1% CFR-2.

S

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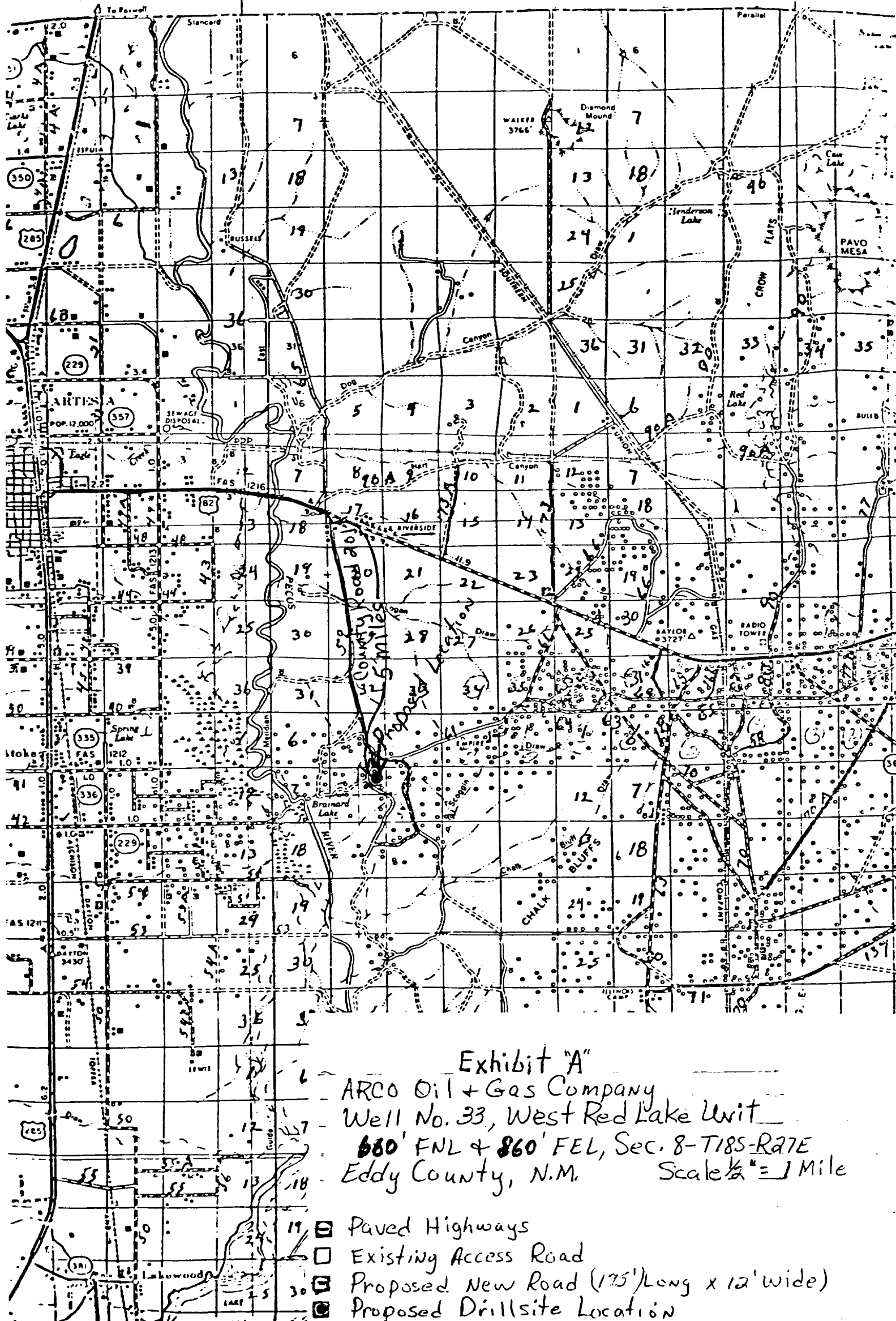
O

U

R.26 E.

R.27 E.

R.28 E.



Pet Co. of Texas

WEST RED LAKE
SWD SYSTEM

R-27E

Lease Lines

Temple Co. "B" Fed.

PROP. WEST RED LAKE
SWD "B"

Patton Fed. A² HEDGES
FEAR
SYSTEM

2-1/2" SFL

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