

# **GAS WELL INSPECTIONS**





# GAS WELL ORDINANCES

- GAS WELL ORDINANCE No. #14880 BECAME EFFECTIVE ON JANUARY 1, 2002.
- THE ORDINANCE WAS REVISED AND ORDINANCE No.16986 BECAME EFFECTIVE ON JUNE 13, 2006, FOCUSING ON REGULATIONS FOR DRILLING IN POPULATED AREAS.
- THE ORDINANCE WAS REVISED AGAIN AND ORDINANCE No. 18449 BECAME EFFECTIVE ON FEBRUARY 10, 2009.

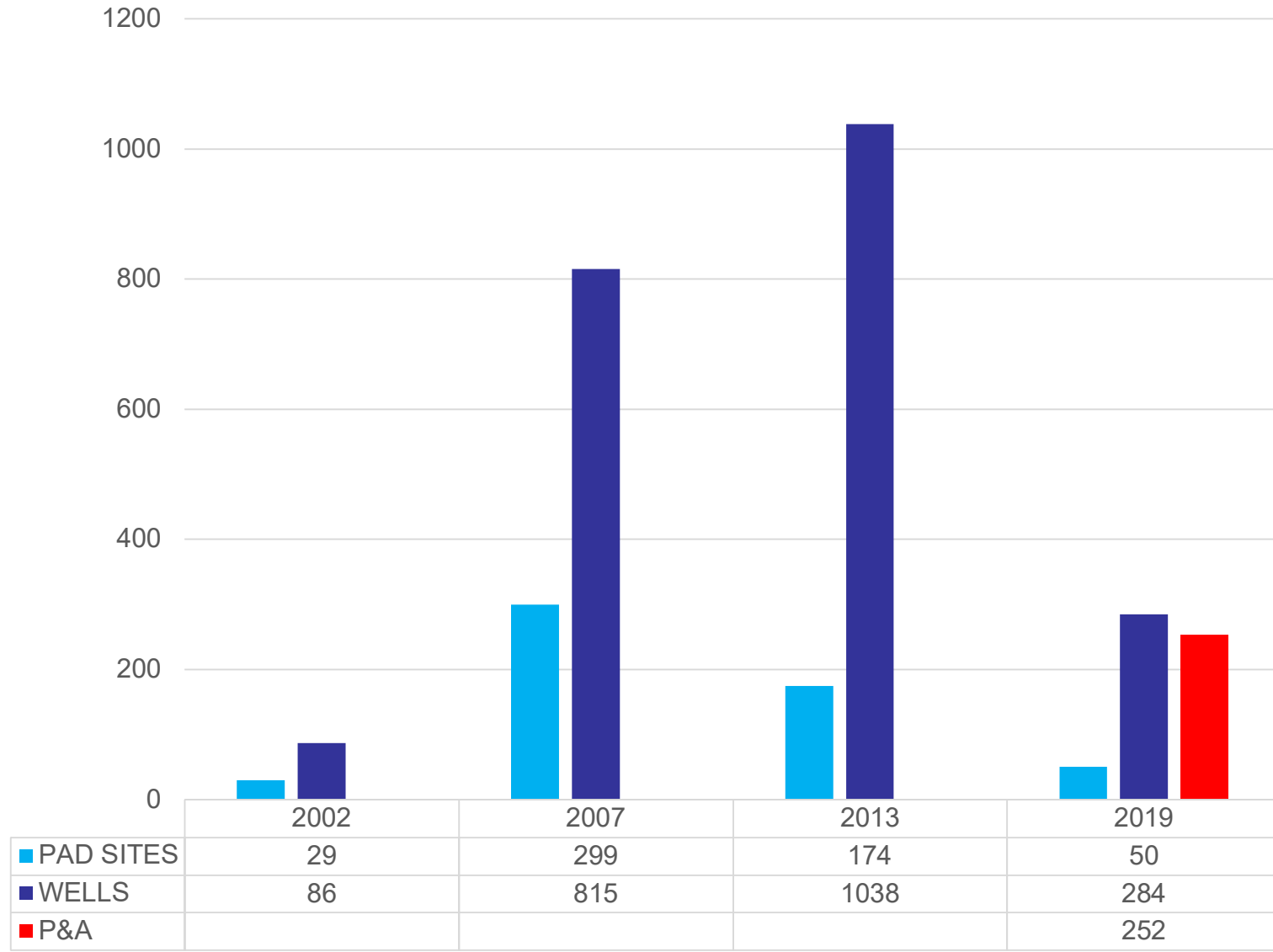
# **GAS WELL ORDINANCE No.18449**

SEC. 15-30. Purpose.

The exploration, development, and production of gas in the City are activities which necessitate reasonable regulation to ensure that all property owners, mineral and otherwise, have the right to peaceably enjoy their property and its benefits and revenues. It is hereby declared to be the purpose of this article to establish reasonable and uniform limitations, safeguards and regulations for present and future operations related to the exploring, drilling, developing, producing, transporting and storing of gas and other substances produced in association with gas within the City to protect the health and general welfare of the public; minimize the potential impact to property and mineral rights owners, protect the quality of the environment and encourage the orderly production of available mineral resources.

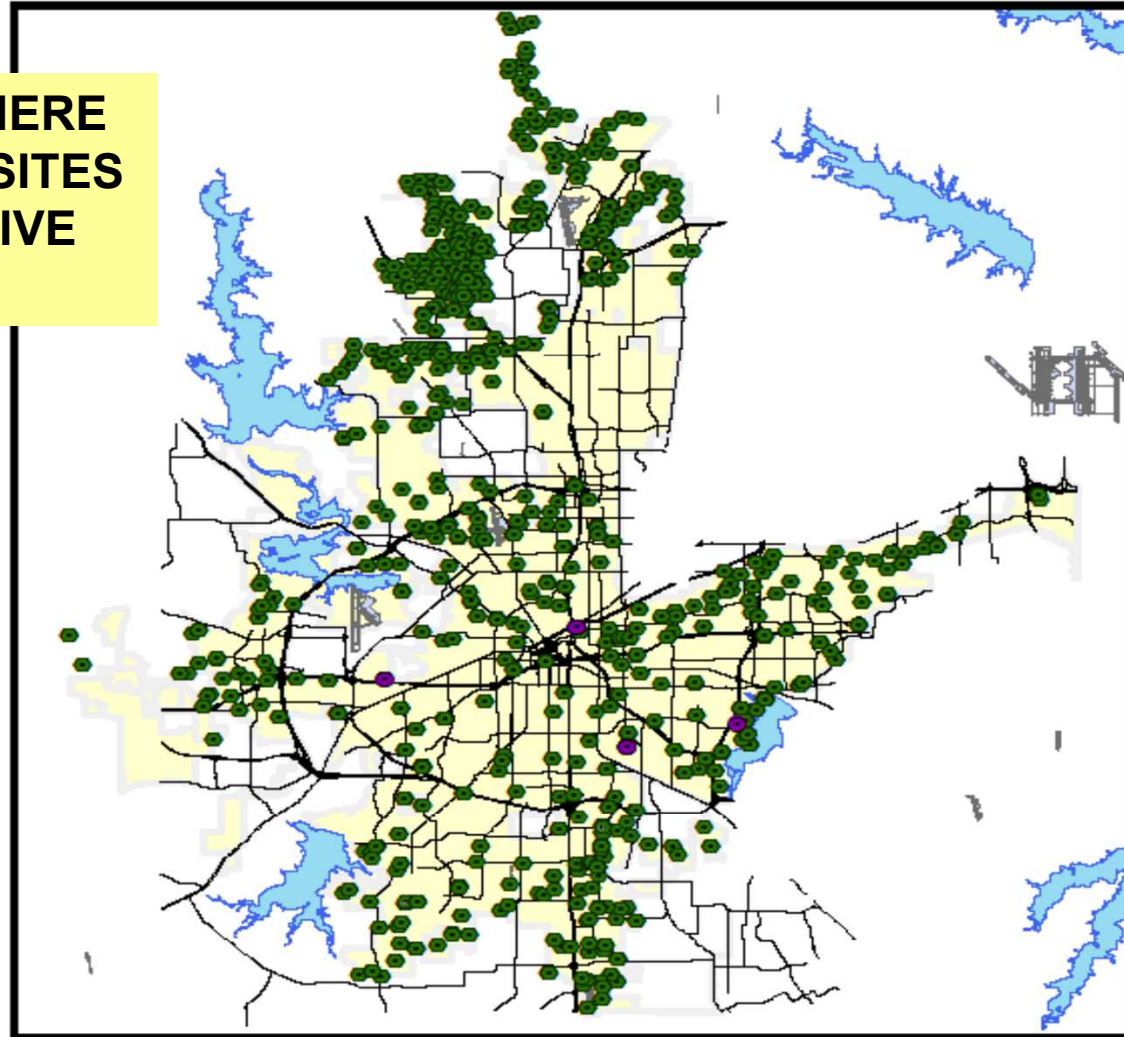
**THE GAS WELL INSPECTORS  
ENFORCE THE ORDINANCE  
MITIGATE COMPLAINTS  
ASSIST OPERATORS, DEVELOPERS & PUBLIC**

# GAS WELL STATS



## CITY OF FORT WORTH - GAS WELLS AS OF 2019

**CURRENTLY THERE  
ARE 552 PAD SITES  
AND 1971 ACTIVE  
WELLS**



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THIS DATA IS TO BE USED FOR A GRAPHICAL REPRESENTATION ONLY.  
THE ACCURACY IS NOT TO BE TAKEN/USED AS DATA PRODUCED  
FOR ENGINEERING PURPOSES OR BY A REGISTERED PROFESSIONAL LAND  
SURVEYOR. THE CITY OF FORT WORTH ASSUMES NO RESPONSIBILITY  
FOR THE ACCURACY OF SAID DATA.  
C.L.

0 10 Miles



# INTER-LOCAL AGREEMENTS

- THE CITY OF FORT WORTH HAS INTER-LOCAL AGREEMENTS WITH THE FOLLOWING ENTITIES FOR THE INSPECTION OF GAS WELLS:
- DFW
- CITY OF COLLEGE STATION
- CITY OF TRINIDAD



**SEVERAL KEY ISSUES FOCUSED ON:**

**PUBLIC NOTICE**

**SITE ACTIVITY**

**NOISE ABATEMENT**

**WORK HOURS**

**FENCE \ SCREENING**

**LANDSCAPE**

**SITE SECURITY**

**PUBLIC SAFETY ISSUES**



**GAS WELL INSPECTORS:**

**ATTEND AND TALK AT MANY PUBLIC MEETINGS.**

**REVIEW AND RECOMMEND ORDINANCE REVISIONS.**

**HANDLE THE MONTHLY PUBLIC GAS WELL MEETING.**

**PROVIDE INFORMATION TO DEVELOPERS, REAL ESTATE PROFESSIONALS, TITLE OFFICES AND OTHER CONCERNED GROUPS.**

**PROVIDE ADVICE TO OTHER CITIES AND FACILITIES SUCH AS DFW AIRPORT.**

**WORK WITH OTHER CITY DEPARTMENTS FOR ANY GAS WELL RELATED ISSUES.**

**THE FOLLOWING ARE REVIEWED IF A GAS WELL PAD SITE IS  
WITHIN 600 FEET TO ENSURE GAS WELL SETBACKS ARE  
INCLUDED:**

**PRELIMINARY PLATS**

**SHORT PLATS**

**FINAL PLATS**

**BUILDING PERMITS**

# **GAS WELL INSPECTORS ARE NOT INVOLVED WITH PRIVATE MINERAL LEASING**



## **THREE BASIC PARTS TO A LEASE:**

- 1. LEASE BONUS**
- 2. TERM OF LEASE**
- 3. ROYALTY**

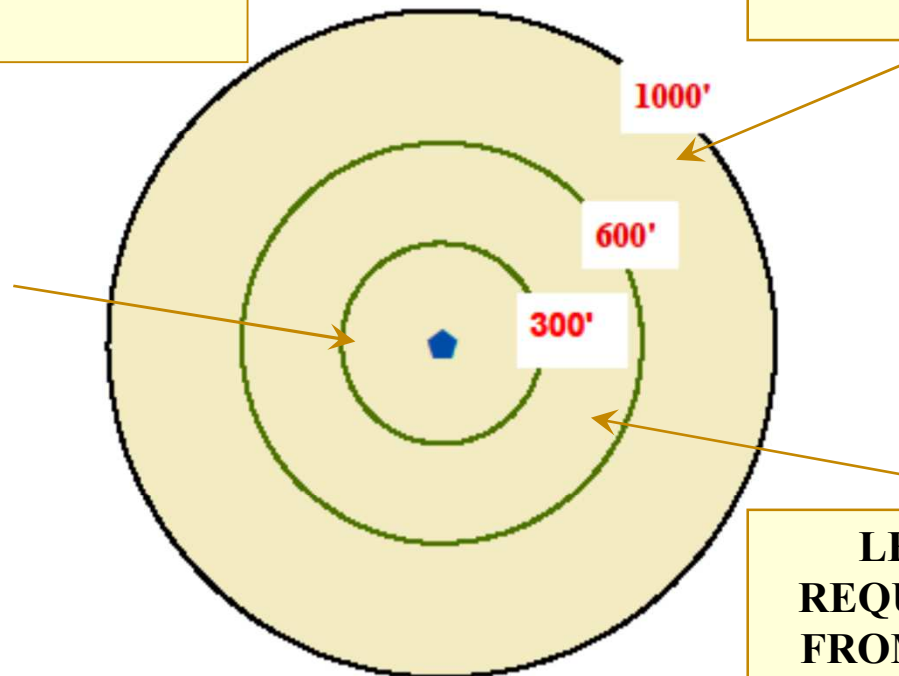
**MINERAL LEASING MAY BE COMPLEX -  
CONTACT QUALIFIED ATTORNEY TO DISCUSS  
AN OFFER IF YOU NEED ASSISTANCE**

**ROYALTY PAYMENT INQUIRES NEED TO BE  
ADDRESSED WITH THE OPERATOR OF THE GAS  
WELL PAD SITE**

# PROTECTED USES AND HABITABLE STRUCTURES

**PROTECTED USE MEANS:  
RESIDENCE, CHURCH, HOSPITAL,  
PUBLIC BUILDING,  
SCHOOL & CITY PARK OR PLACE OF  
PUBLIC ASSEMBLY**

**NOTICES MUST BE  
SENT TO EACH  
PROPERTY OWNER  
WITHIN 1000'**

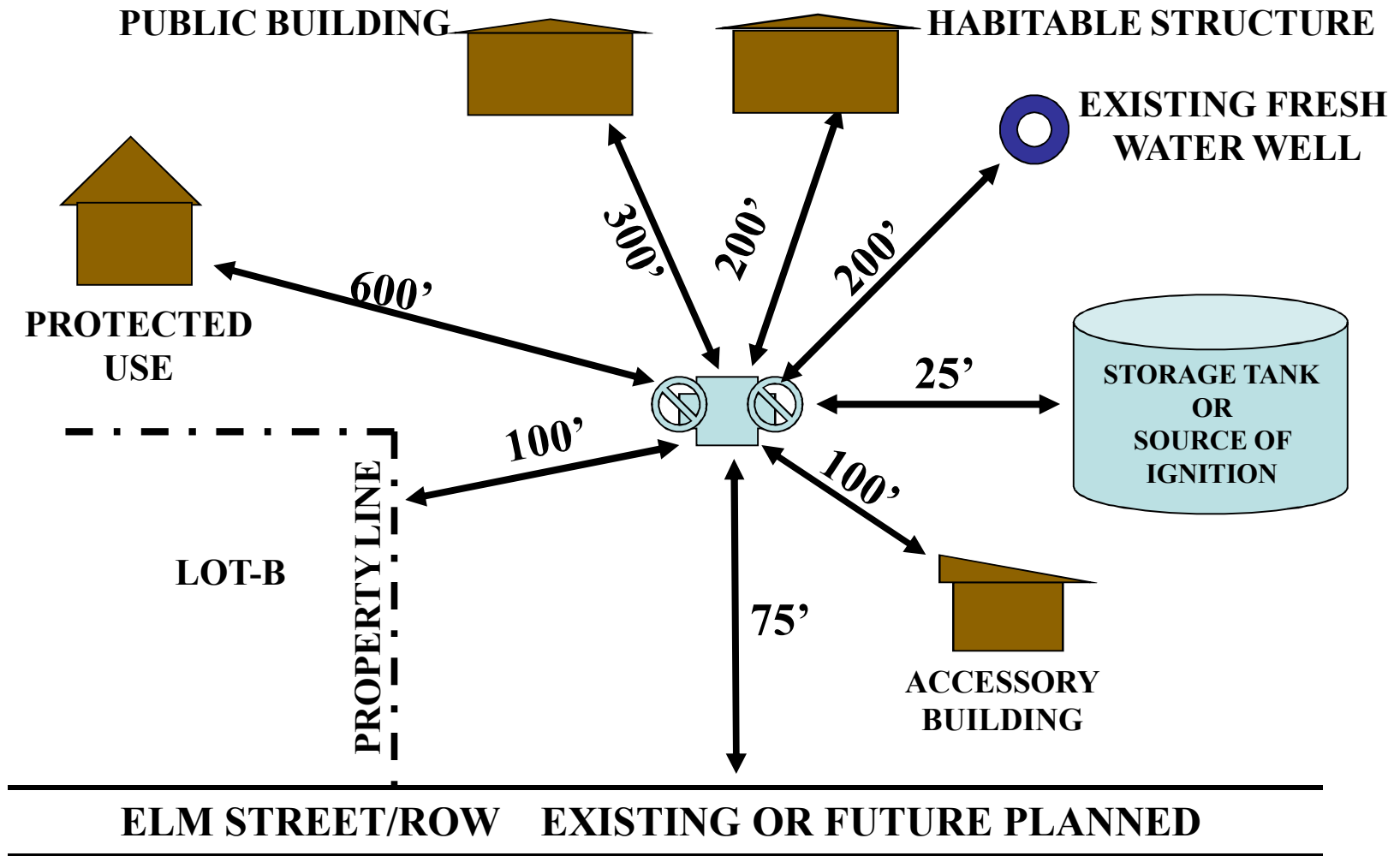


**300' IS THE MINIMUM  
DISTANCE THAT A  
WELL MAY BE DRILLED  
FROM A PROTECTED  
USE OR PUBLIC  
BUILDING & 200' IS THE  
MINIMUM DISTANCE  
FROM A HABITABLE  
STRUCTURE**

**LESS THAN 600'  
REQUIRES A WAIVER  
FROM EACH OWNER  
OF A PROTECTED USE  
OR REQUEST A PUBLIC  
HEARING AT COUNCIL**

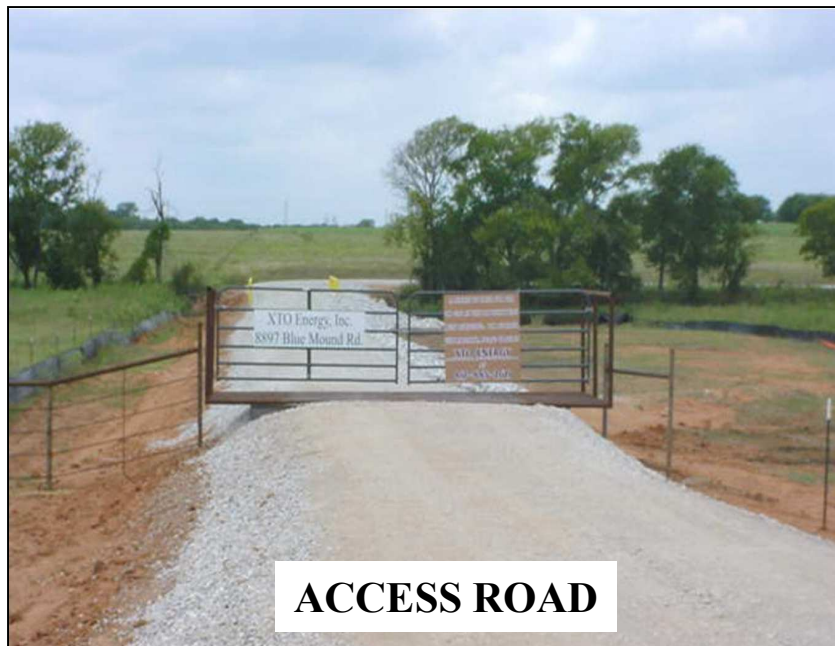
# WELL SETBACKS

IT SHALL BE UNLAWFUL TO DRILL ANY WELL, THE CENTER OF WHICH, AT THE SURFACE OF THE GROUND, IS LOCATED WITHIN:



NOT TO SCALE

# INSPECTORS REVIEW EACH APPLICATION



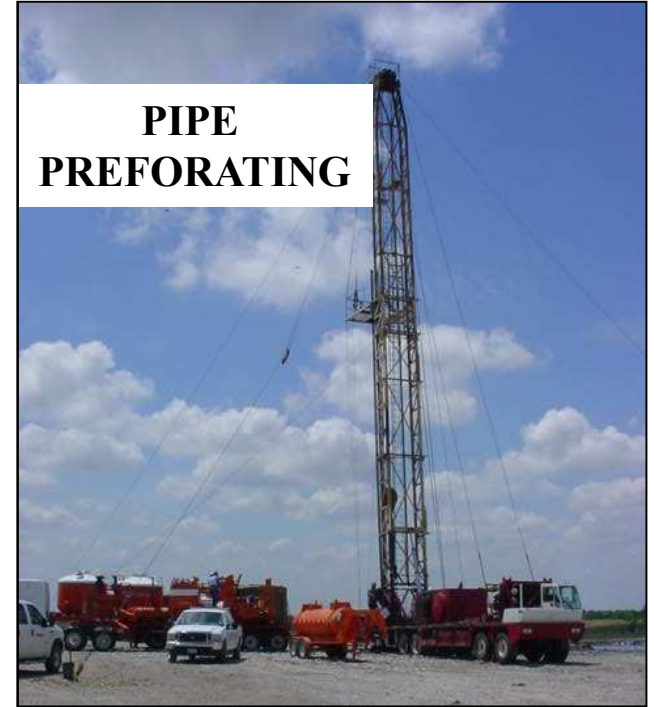


# MONITOR DRILLING & COMPLETING

**DRILLING  
THE WELL**



**PIPE  
PREFORATING**



**'FRACING' THE BARNETT SHALE**



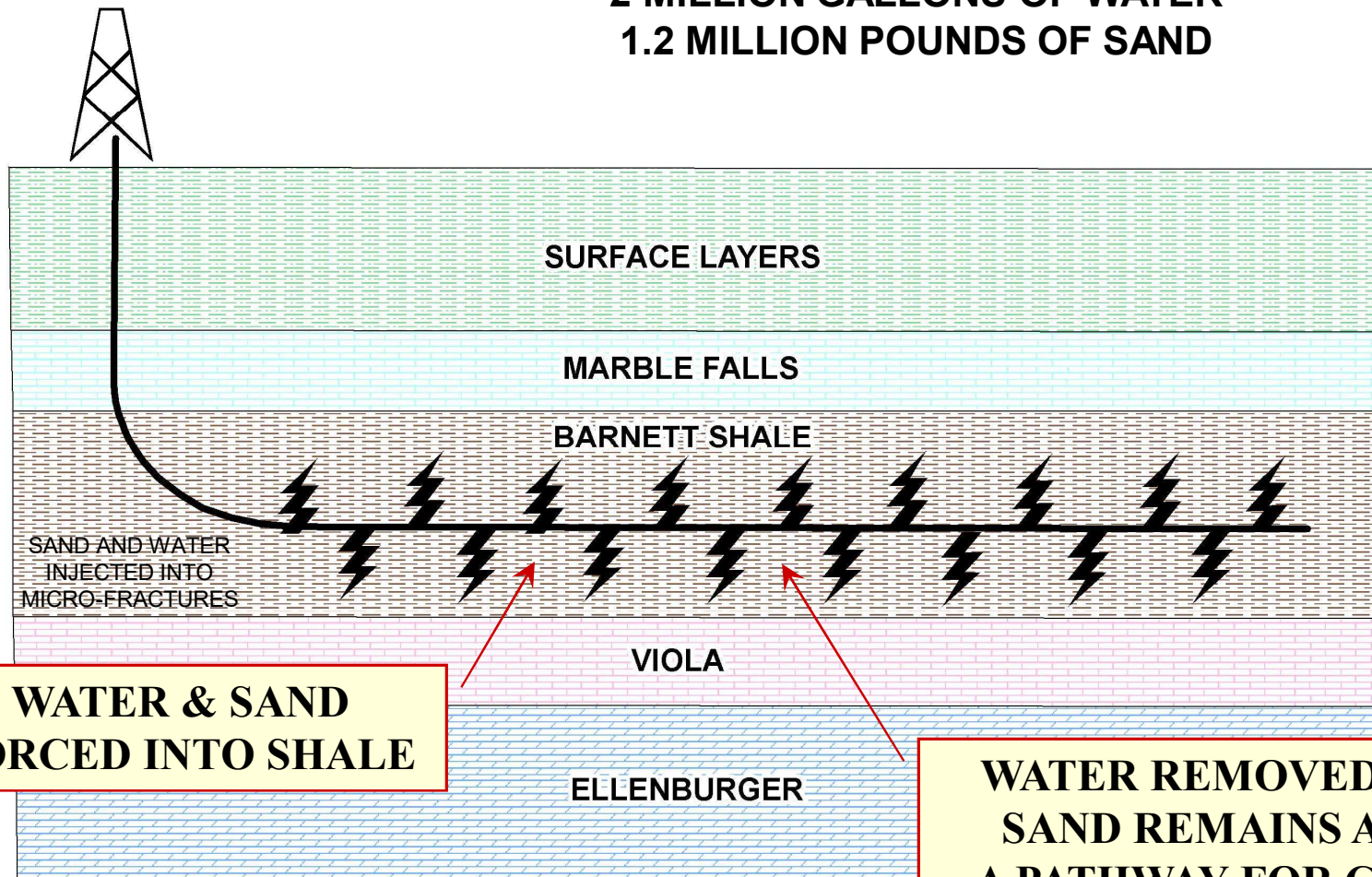
**WELL HEAD READY TO COMPLETE**





**DRILLING RIG**

**A TYPICAL 3-STAGE FRAC USES:  
2 MILLION GALLONS OF WATER  
1.2 MILLION POUNDS OF SAND**



**WATER & SAND  
FORCED INTO SHALE**

**WATER REMOVED &  
SAND REMAINS AS  
A PATHWAY FOR GAS**

# SOUND ABATEMENT BLANKETS



**EFFECTIVE, MAY BE REMOVED AND RE-INSTALLED  
INTO BASE SUPPORTS IN THE GROUND**





**INSTALLING TANKS**

## **FINAL COMPLETION**



**COMPLETED WELLHEAD**

# FINAL APPROACH CONSTRUCTED AFTER WELLS DRILLED



**REQUIRES STREET  
USE PERMIT**

22 6 2005



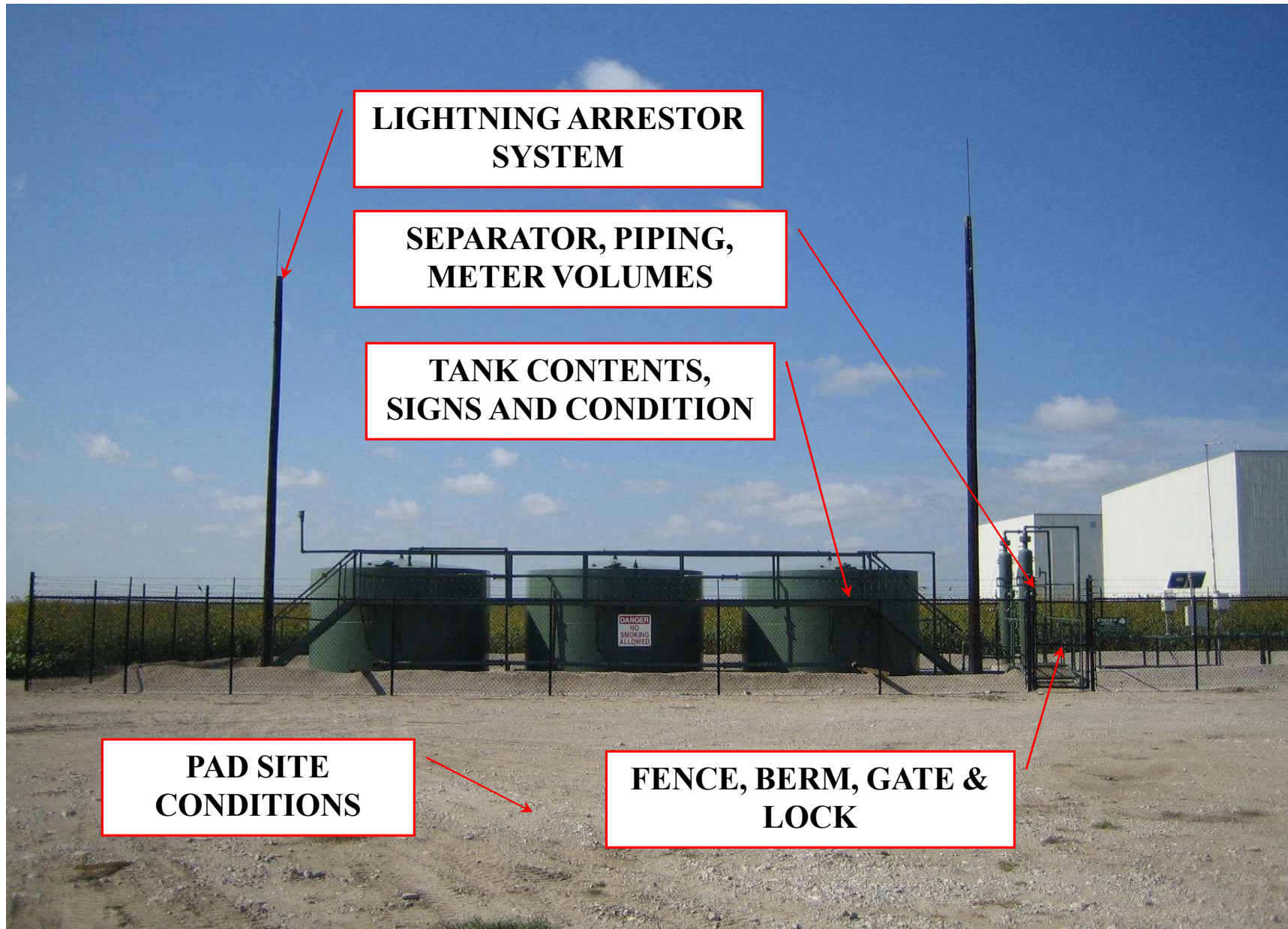
# LANDSCAPE – FUTURE VIEW

**THE ORDINANCE REQUIRES 40% MIXED TREE CANOPY COVERAGE FOR ONE AND TWO FAMILY RESIDENTIAL ZONED AREAS; 30% FOR MULTIFAMILY, INSTITUTIONAL AND COMMERCIAL ZONED AREAS, AND 20% FOR INDUSTRIAL ZONED AREAS.**

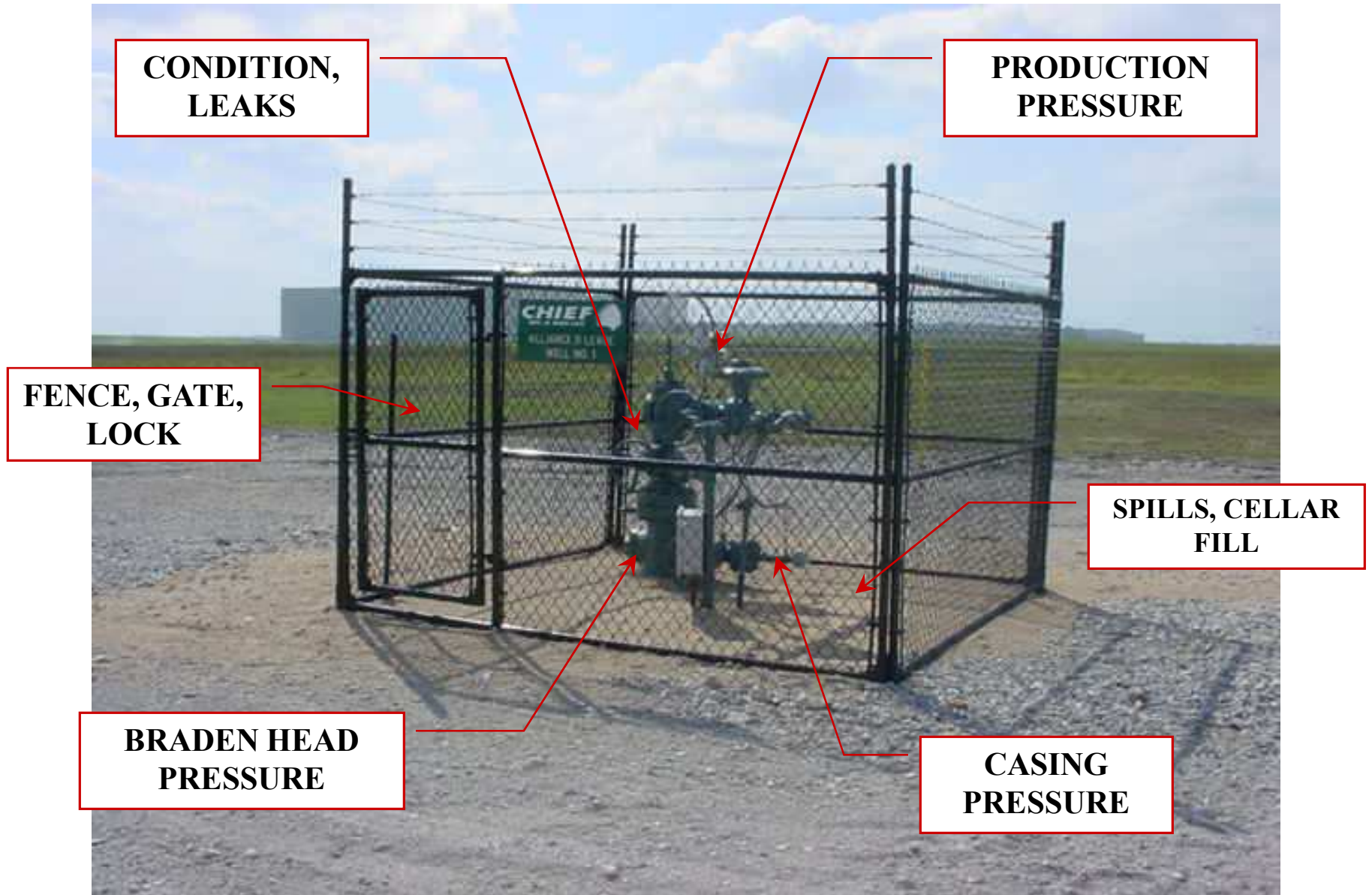




# SOME OF THE INSPECTION POINTS AT EACH SITE



# WELL HEAD INSPECTION





# PRESSURE RELIEF POP-OFF MAKES NOISE



**PRESSURE  
RELIEF  
(POP-OFF)**



# ONSITE STORAGE HAZARDS



**NOT ALLOWED**





**KEEP SITE CLEAN OF SALT SPILLS**



**WHEN NOT IN USE TO BE COVERED  
AT ALL TIMES BY A 1 ½” STEEL PLATING  
TO PREVENT ACCIDENTAL ENTRAPMENT  
OF PERSONS OR ANIMALS**



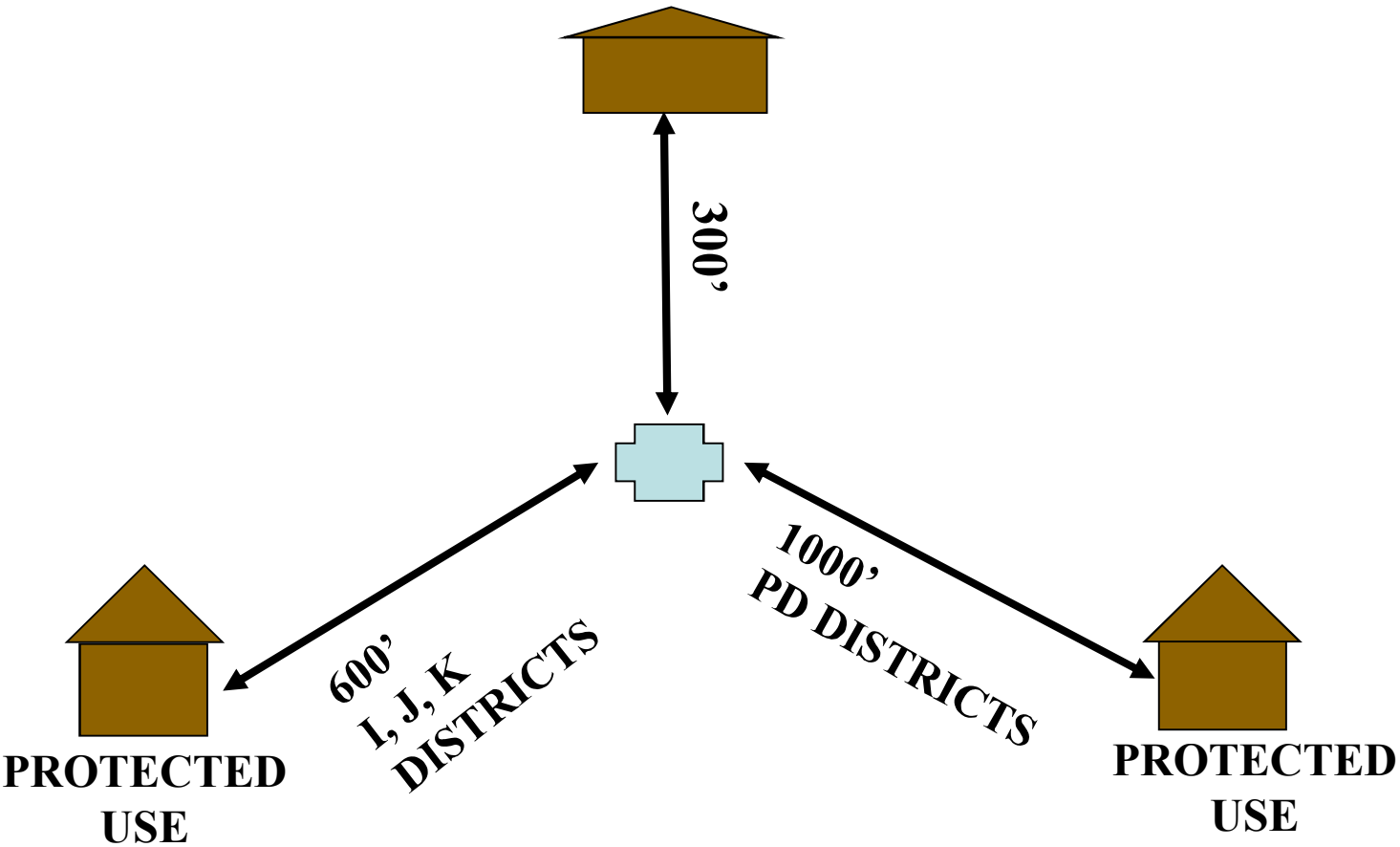


**PER ORDINANCE No. 18449**  
**LINE COMPRESSOR SITES SHALL BE PERMITTED ONLY:**  
**PD-PLANNED DEVELOPMENT ZONED DISTRICTS**  
**I-LIGHT INDUSTRIAL ZONED DISTRICTS**  
**J-MEDIUM INDUSTRIAL ZONE DISTRICTS**  
**K-HEAVY INDUSTRIAL ZONED AREA DISTRICTS**



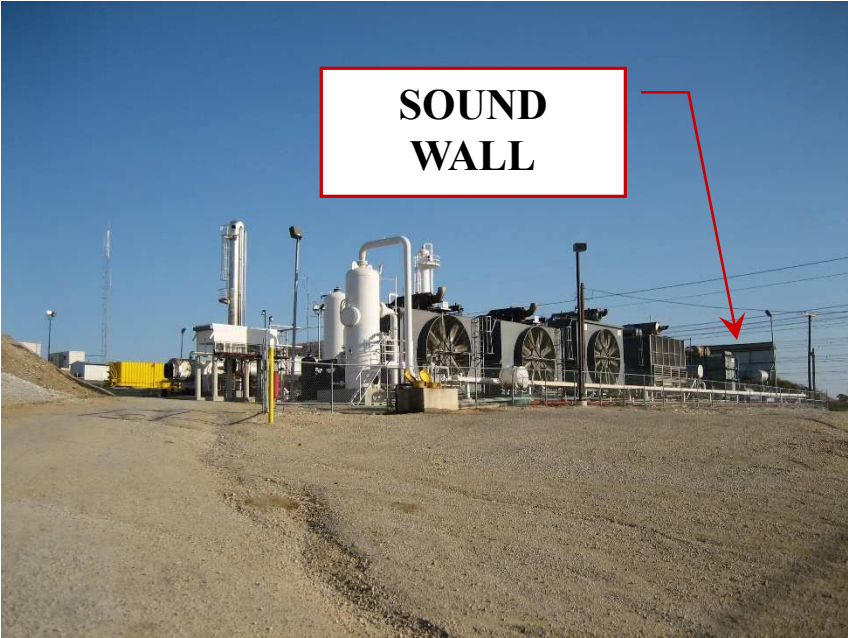
**LINE COMPRESSOR SITE SETBACKS  
MEASURED FROM THE PROPERTY LINE  
OF THE COMPRESSOR SITE**

**PUBLIC BUILDING  
OR  
HABITABLE STRUCTURE**



NOT TO SCALE

# COMPRESSOR SUBSTATION



**Enclosed Compressor Unit  
Provides excellent sound abatement**





**MUFFLER COVER NOISE TEST  
THAT DID NOT WORK**



**SOUND ABATEMENT  
BLANKETS**

**PUT UP A SOUND WALL**



**THIS WORKED**

**STREET SIDE**



**FACING SCHOOL & HOMES**





**CALL THE NUMBER  
ON THE SIGN  
FOR IMMEDIATE  
RESPONSE  
BY THE OPERATOR**





# ABANDONED WELLS

**NO STRUCTURE SHALL BE BUILT OVER AN ABANDONED WELL**



**COMPLY WITH COMMISSION  
SAME NOTICES TO INSPECTORS  
48 HOUR NOTICE TO INSPECTORS**

**CUT CASING 3' BELOW GRADE  
WELD 4' MARKER PIPE TO CASING  
IDENTIFY WELL ON MARKER PIPE  
RESTORE SURFACE**



**CITY OF FORT WORTH  
GAS WELL DEVELOPMENT STAFF**

**CECILIA LEYBA  
GAS WELL INSPECTOR  
817-392-2884  
[Cecilia.Leyba@fortworthtexas.gov](mailto:Cecilia.Leyba@fortworthtexas.gov)**

**BRENDAN SKAGGS  
GAS WELL INSPECTOR  
817-392-2883  
[Brendan.Skaggs@fortworthtexas.gov](mailto:Brendan.Skaggs@fortworthtexas.gov)**

**24-HOUR ON CALL  
817-392-1427**

**WEB  
[HTTP://FORTWORTHEXAS.GOV/GASWELLS](http://FORTWORTHEXAS.GOV/GASWELLS)  
GAS WELL DRILLING**

**QUESTIONS ?**

**GAS WELL ORDINANCE  
&  
INSPECTION PROCESS**



**GAS DRILLING SECTION  
PLANNING & DEVELOPMENT  
DEPARTMENT**

