

STATE OF MARYLAND  
DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES

The Johns Hopkins University  
BALTIMORE 18, MARYLAND

WELL COMPLETION REPORT Harold Jenkins, Well No. 1

*This report must be submitted within 30 days after completion of the well*

Elevation: 2310' G. L.  
2326' K. B. (Zero) **WELL DESCRIPTION** Permit Number.....42.....

**WELL LOG**

State the kind of formations penetrated, their depth, their thickness, and if water-bearing

**CASING AND SCREEN RECORD**

State the kind and size of casing, liner, shoe, screen, and other accessories (if no casing used, give diameter of well)

Name of Owner Texas Eastern Transmission Corporation

Total Depth: 7,303'  
Plug Back Depth: 7,225'

**FEET**  
from.....to.....

**Conductor:**

Cemented to Surface 13 3/8" 0 - 79'  
with 75sx Common 48#  
Cement with 2% H-40  
Cacl - Good Returns

**FEET**  
from.....to.....

**PUMPING TEST**

Hours Pumped .....  
Type of Pump Used.....  
Pumping Rate  
Gallons per Minute.....

**Geological Information:**

Top - 1st Onondaga Limestone 6,746'  
Top - 2nd Onondaga Limestone 6,774'  
Top - 1st Huntersville Chert 6,798'  
Top - 3rd Onondaga Limestone 6,876'  
Top - 2nd Huntersville Chert 6,890'  
Top - Needmore Shale 6,997'  
Top - Oriskany Sandstone 7,030'  
Top - Helderberg Limestone 7,223'

**Surface:**

9 5/8" 0-1,026'  
Cemented to surface 36#  
with 500 sx litepdz J-55  
cement followed by  
100 sx Common Cement  
with 2% Cacl.

**WATER LEVEL**

Distance from land surface to water:  
Before Pumping.....Ft.  
When Pumping.....Ft.

30' Fault 6,746'  
90' Fault 6,876'  
45' Fault 7,082'

Good Returns  
Baker Guide Shoe  
at 1,025'  
Baker Float Collar  
at 990'  
2 Baker Centralizers

**APPEARANCE OF WATER**

Clear .....519.....  
Cloudy .....  
Taste .....Fresh.....  
Odor .....None.....

**Drilling Information:**

Rotary - Air 17 1/2" 0 - 79'  
Rotary - Air 12 1/4" 79 - 519'  
Rotary - Foam 12 1/2" 519-1030'  
Rotary - Air 8 3/4" 1030'-1431'  
Rotary - Foam 8 3/4" 1431'-3549'  
Rotary - Mud 8 3/4" 3549'-6820'  
Rotary - Gas 6 1/8" 6820'-7303'

**Production:**

7" 0-6,818'  
Cemented 1st Stage 29#  
From 6,818' to 5815' N-80  
with 130 sx diacel  
and 50 sx Common  
Cement.

Height of Casing Above Land  
Surface .....Ft.

Cemented 2nd Stage  
from 5,815' to Surface  
with 770 sx diacel and  
50 sx Common Cement.  
Good Returns. Baker  
Float Collar at 6,783'  
Baker Stage Collar  
at 5,815'  
6 Baker Centralizers

**PUMP INSTALLED**

Type .....None.....  
Capacity  
Gallons per Minute.....  
Gallons per Hour.....  
Pump Column Length.....Ft.

Baker Float Shoe at 6,817'  
Tubing: 6,817' 2 3/8" 0-7,209'  
4.7#  
J-55

**REMARKS**

Well Was Completed  
Date .....  
Well Driller.....Ft.

Signature

STATE OF MARYLAND  
DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES

The Johns Hopkins University  
BALTIMORE 18, MARYLAND

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WELL DESCRIPTION

WELL LOG

State the kind of formations penetrated, their depth, their thickness, and if water-bearing

CASING AND SCREEN RECORD

State the kind and size of casing, liner, shoe, screen, and other accessories (if no casing used, give diameter of well)

Permit Number 42

Name of Owner Texas Eastern Transmission Corporation

| WELL LOG  |                           | CASING AND SCREEN RECORD   |                           | PUMPING TEST      |                                    |
|---|---------------------------|--|---------------------------|-------------------|------------------------------------|
| State the kind of formations penetrated, their depth, their thickness, and if water-bearing |                           | State the kind and size of casing, liner, shoe, screen, and other accessories (if no casing used, give diameter of well) |                           | Hours Pumped      |                                    |
|   | FEEET<br>from.....to..... | DIAM.<br>(inches)  | FEEET<br>from.....to..... | Type of Pump Used | Pumping Rate<br>Gallons per Minute |
| Tests, While Drilling In  |                           | Open Hole:   |                           |                   |                                    |
| 16.6 MCFD Gas   | 6,820'-7,027'             | 6 1/8  | 6,820'-                   |                   |                                    |
| 46.0 MCFD Gas   | 6,820'-7,039'             |  | 7,303'                    |                   |                                    |
| 690.0 MCFD Gas  | 6,820'7,303'              |  |                           |                   |                                    |
| Acidize - 1st Treatment   | 6,820'-7,215'             | Plug Back:   |                           |                   |                                    |
| 2000 gals. 15% HCL  |                           | Set Baker Model  |                           |                   |                                    |
| with 450 SCF N <sub>2</sub> per bbls  |                           | C Cast Iron Plug   |                           |                   |                                    |
| Acid. Rate 1/2 bbl. per   |                           | at 7264', Dumped   |                           |                   |                                    |
| min. Pressure, maximum 2,900  |                           | cement and calseal   |                           |                   |                                    |
| psi Final 2,800 psi.  |                           | top of calseal at  |                           |                   |                                    |
| Displaced with water and  |                           | 7,225.   |                           |                   |                                    |
| soap.   |                           | P.B.T.D. 7,225'  |                           |                   |                                    |
| Test, After Treatment:  |                           |  |                           |                   |                                    |
| 150 MCFD Gas  | 6,820'-7,225'             |  |                           |                   |                                    |
| Acidize, 2nd Treatment:   | 6,820'-7,225'             |  |                           |                   |                                    |
| 15,000 gals. 7 1/2% HCL   |                           |  |                           |                   |                                    |
| with 500 SCF N <sub>2</sub> per bbl   |                           |  |                           |                   |                                    |
| acid. Rate: min.-32 bbls. (max.34 bbls  |                           |  |                           |                   |                                    |
| per minute. Pressure:   |                           |  |                           |                   |                                    |
| min.-3,600 psi, max.-3900   |                           |  |                           |                   |                                    |
| psi.  |                           |  |                           |                   |                                    |
| Displaced with water  |                           |  |                           |                   |                                    |
| and soap. Over flushed  |                           |  |                           |                   |                                    |
| with 100 bbls. Water and  |                           |  |                           |                   |                                    |
| soap.   |                           |  |                           |                   |                                    |
| Test, After Treatment:  |                           |  |                           |                   |                                    |
| 317 MCFD Gas  | 6,820'-7,225'             |  |                           |                   |                                    |

WATER LEVEL

Distance from land surface to water:

Before Pumping.....Ft.

When Pumping.....Ft.

APPEARANCE OF WATER

Clear .....

Cloudy .....

Taste .....

Odor .....

Height of Casing Above Land

Surface .....Ft.

PUMP INSTALLED

Type .....

Capacity

Gallons per Minute.....

Gallons per Hour.....

Pump Column Length.....Ft.

REMARKS

Open Hole Completion  
6,820'-7,225'

Well Was Completed

Date October 5, 1964

Well Driller

J. D. Gaden Signature

State of Maryland  
 DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES  
 The Johns Hopkins University  
 Baltimore 18, Maryland

*Harold Jenkins #1*

APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL  
 (Applications must be submitted in triplicate)  
 Harold Jenkins #1

|  |  |
|--|--|
| OWNER <u>Texas Eastern Transmission Corp.</u>  | LOCATION OF WELL _____   |
| STREET or R.F.D. _____   | COUNTY <u>Garrett</u>  |
| POST OFFICE <u>Box 2521</u><br><u>Houston, Texas 77001</u>   | NEAREST POST OFFICE <u>Accident, Maryland</u><br><br>Distance from Post Office <u>8,465'</u><br><br>Direction from Post Office <u>N 28°</u><br><u>22 min. 36 sec. W</u>  |
| PERMIT TO DRILL WELL<br><br>NOT TO BE FILLED IN BY APPLICANT   | APPROXIMATE DEPTH OF WELL (feet) <u>7800'</u>  |
| PERMIT NO. <u>42</u> (Forty two)   | METHOD OF DRILLING <u>Rotary (air)</u>   |
| The permit is herewith granted subject to the conditions stipulated.<br><br><i>Kenneth D. Weaver</i><br>Director | DEEPEST GEOLOGIC FORMATION<br>WELL WILL BE DRILLED <u>Oriskany</u>   |
| Date <u>June 9, 1964</u>   | DISTANCE OF WELL LOCATION<br>TO NEAREST BUILDING (feet) <u>349'</u>  |
| Special conditions that may apply:<br><br>Names of Drillers must be furnished prior to drilling                  | NUMBER OF SHIFTS PER DAY <u>Three</u><br><br>LICENSED DRILLER IN CREW OF EACH SHIFT<br><u>NAME</u> <u>ADDRESS</u><br><br>To be furnished<br><br>_____<br><br>_____<br><br>These names may be supplied later but before drilling begins |

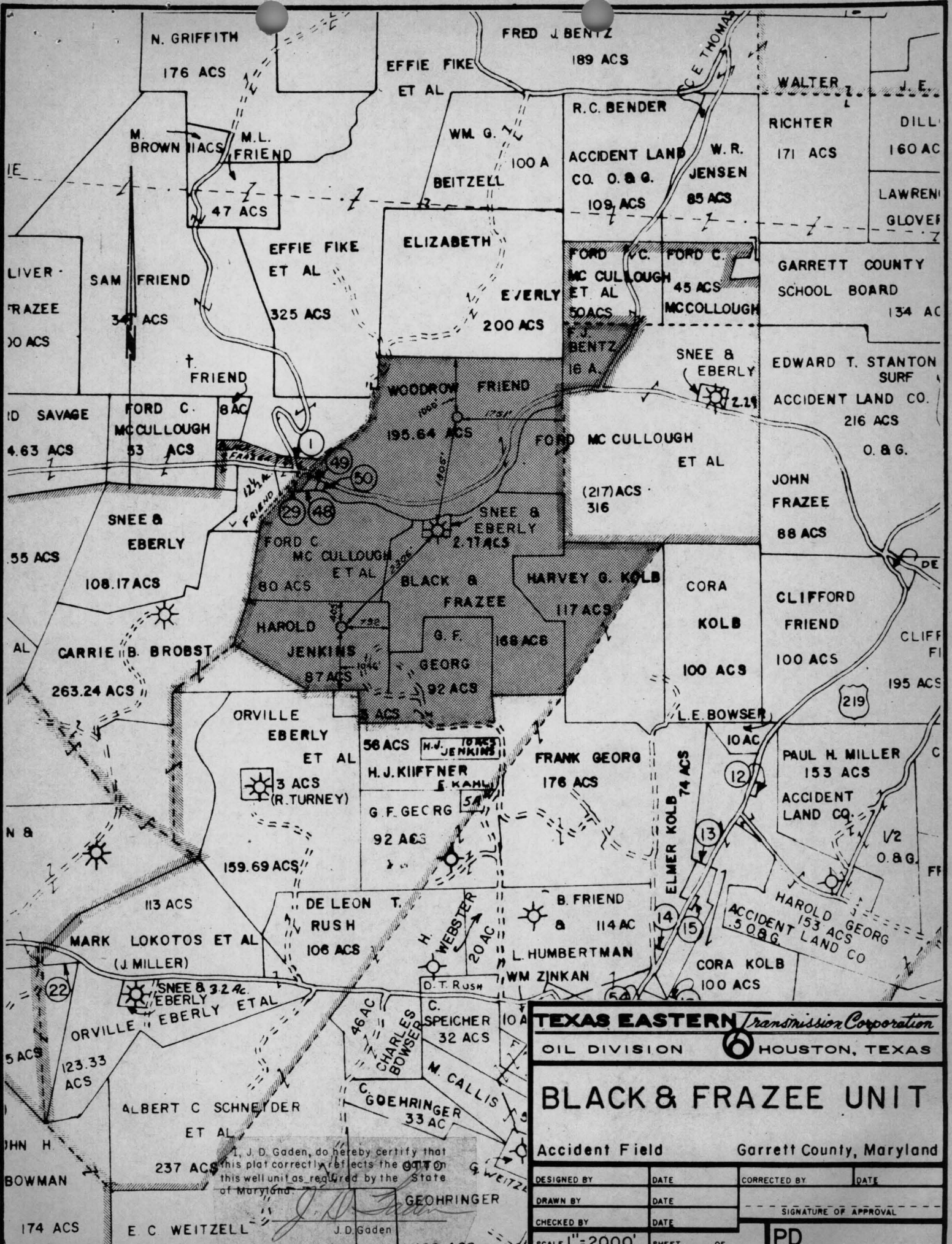
The names and post office addresses of the owners of the tracts of land included on the plat or map accompanying the application are to be given below.

See attached list

NOTE

A BOND FOR \$2,500 PAYABLE TO THE STATE OF MARYLAND MUST ACCOMPANY THE APPLICATION  
 THIS APPLICATION FORM MUST BE FILLED OUT WITH TYPEWRITER OR IN BLOCK LETTERS





**TEXAS EASTERN** Transmission Corporation  
 OIL DIVISION 6 HOUSTON, TEXAS

# BLACK & FRAZEE UNIT

Accident Field Garrett County, Maryland

|                  |       |                       |      |
|------------------|-------|-----------------------|------|
| DESIGNED BY      | DATE  | CORRECTED BY          | DATE |
| DRAWN BY         | DATE  | SIGNATURE OF APPROVAL |      |
| CHECKED BY       | DATE  |                       |      |
| SCALE 1" = 2000' | SHEET | OF                    | PD   |

I, J. D. Gaden, do hereby certify that this plat correctly reflects the location of this well unit as required by the State of Maryland.

*J. D. Gaden*  
 J. D. Gaden