

STATE OF MARYLAND
MARYLAND GEOLOGICAL SURVEY
 The Johns Hopkins University
 BALTIMORE, MARYLAND 21218

Permit Number 41
 Well Number 1
 Texas Eastern Trans-
 Company mission Corporation
 County Garrett

COMPLETION REPORT

(oil or gas well)

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

WELL DESCRIPTION - KIND OF WELL: GAS STORAGE

(Oil, Gas, Other)

NAME & WELL NO. <u>WOODROW FRIEND, WELL #1</u>	Size of Casting and Tubing	Used in Drilling	Left in Well	Packers: Type, Size and Depth
ELEVATION: <u>1979'</u> LEASE: <u>W. Friend</u>	13 3/8"	132'	132'	None
DRILLING COMMENCED: <u>12-8-65</u> DRILLING COMPLETED: <u>3-19-66</u>	9 5/8"	2650'	2650'	None
PRODUCTION: <u>Gas</u>	7"	6979'	6979'	None
	2 3/8"	7070'	7070'	None
RESERVOIR PRESSURE _____ psig _____ hrs.				
WELL TREATMENT: (Shooting, Acidizing, Fracturing, Etc.) <u>Perf Chert 6626-40' & 6656-68' Acidized with</u> <u>2000 Gal 10% HCL w/Lz. After Flow Back fraced</u> <u>with 30000 waterfrac 20</u>				PERFORATIONS AT: <u>6626-40</u> <u>6656-68</u>
Oriskany not treated				
				CEMENTING DATA: (Size Pipe, Depth, No. Bags, Date)
				<u>12-17-65 13 3/8" 48# H-40 132' - 175 sx common w/</u> <u>2% CaCl</u>
RESERVOIR PRESSURE AFTER TREATMENT: _____				<u>1-8-66 9 5/8" 36# J-55 2650' - 1100 sx Pos "A"</u> <u>w/1/4# per sack flocele fol-</u> <u>lowed by 200 sx common w/</u> <u>2% CaCl</u>
RESULTS AFTER TREATMENT: <u>255 MCF/D</u>				<u>2-7-66 7" 29# N-80 6979' First Stage w/150 sx</u> <u>Pos "A" and 100 sx Latex. Opened D. V. Tool</u> <u>cement 2nd stage to surface w/1100 sx Pos "A" &</u> <u>50 sx common</u>
REMARKS: <u>Gas Storage Well</u>				GEOPHYSICAL LOGS (Type of Geophysical Logs Run on Well) <u>Formation Density</u> <u>Sonic Amplitude</u> <u>Gamma Ray - Neutron</u>

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GEOLOGICAL LOG

FORMATION	TOP	BOTTOM	GAS AT	OIL AT	WATER AT (Fresh or Salt Water)	REMARKS
Tully	5913	5940				
Onondaga Lime	6563	6595				
Huntersville Chert	6595	6670	6629 & 6662			
2nd Onondaga Lime	6689	6732				
2nd Huntersville Chert	6732	6821				
3rd Huntersville Chert	6821	6942				
Needmore Shale	6942	6983				
Oriskany Sand	6983	7106			7036&7060	Cored Oriskany Sand
Helderberg	7106					T. D. 7160' Well Completed Open Hole in Oriskany Thru Perforations in Chert

This completion report is accurate to the best of my knowledge.

Date March 30, 19 66APPROVED J. D. SaderBy Chief Production Clerk
(Title)COMPANY Texas Eastern Transmission
Corporation

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

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

Woodrow Friend #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>	NEAREST POST OFFICE <u>Accident, Maryland</u>
<u>Houston, Texas 77001</u>	Distance from Post Office <u>10,938'</u>
PERMIT TO DRILL WELL	Direction from Post Office <u>N 10°</u>
NOT TO BE FILLED IN BY APPLICANT	APPROXIMATE DEPTH OF WELL (feet) <u>7800'</u>
PERMIT NO. <u>41 - (Forty One)</u>	METHOD OF DRILLING <u>Rotary (air)</u>
The permit is herewith granted subject to the conditions stipulated.	DEEPEST GEOLOGIC FORMATION WELL WILL BE DRILLED <u>Oriskany</u>
<i>Kenneth M. Weaver</i> Director	DISTANCE OF WELL LOCATION TO NEAREST BUILDING (feet) <u>1145'</u>
Date <u>June 9, 1964</u>	NUMBER OF SHIFTS PER DAY <u>Three</u>
Special conditions that may apply: Names of Drillers must be furnished prior to drilling	LICENSED DRILLER IN CREW OF EACH SHIFT NAME ADDRESS <u>To be furnished</u>
	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

6-15-64-WH9, BC, 93

State of Maryland
MARYLAND GEOLOGICAL SURVEY.
The Johns Hopkins University
Baltimore, Maryland 21218

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

Woodrow Friend #1 (Amended location)

OWNER Texas Eastern Transmission Corp. LOCATION OF WELL

STREET or R.F.D. P. O. Box 2521 COUNTY Garrett

POST OFFICE Houston, Texas 77001 NEAREST POST OFFICE Accident, Maryland

Distance from Post Office 10,323'

Direction from Post Office N6° 33' 06" W.

PERMIT TO DRILL WELL

NOT TO BE FILLED IN BY APPLICANT APPROXIMATE DEPTH OF WELL (feet) 7800'

PERMIT NO. 41 - (Forty One) METHOD OF DRILLING Rotary (Air)

The permit is herewith granted subject to DEEPEST GEOLOGIC FORMATION
the conditions stipulated. WELL WILL BE DRILLED Oriskany

Kenneth N. Wear
Director

DISTANCE OF WELL LOCATION
TO NEAREST BUILDING (feet) 666'

Date January 13, 1965 NUMBER OF SHIFTS PER DAY Three

Special conditions that may apply:

"Gas storage well only"
Names of Drillers must be
furnished prior to drilling

LICENSED DRILLER IN CREW OF EACH SHIFT
NAME ADDRESS

To be furnished (Furnished 12/14/65)

These names may be supplied later but
before drilling begins

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DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES
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APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL
(Applications must be submitted in triplicate)
Woodrow Friend #1

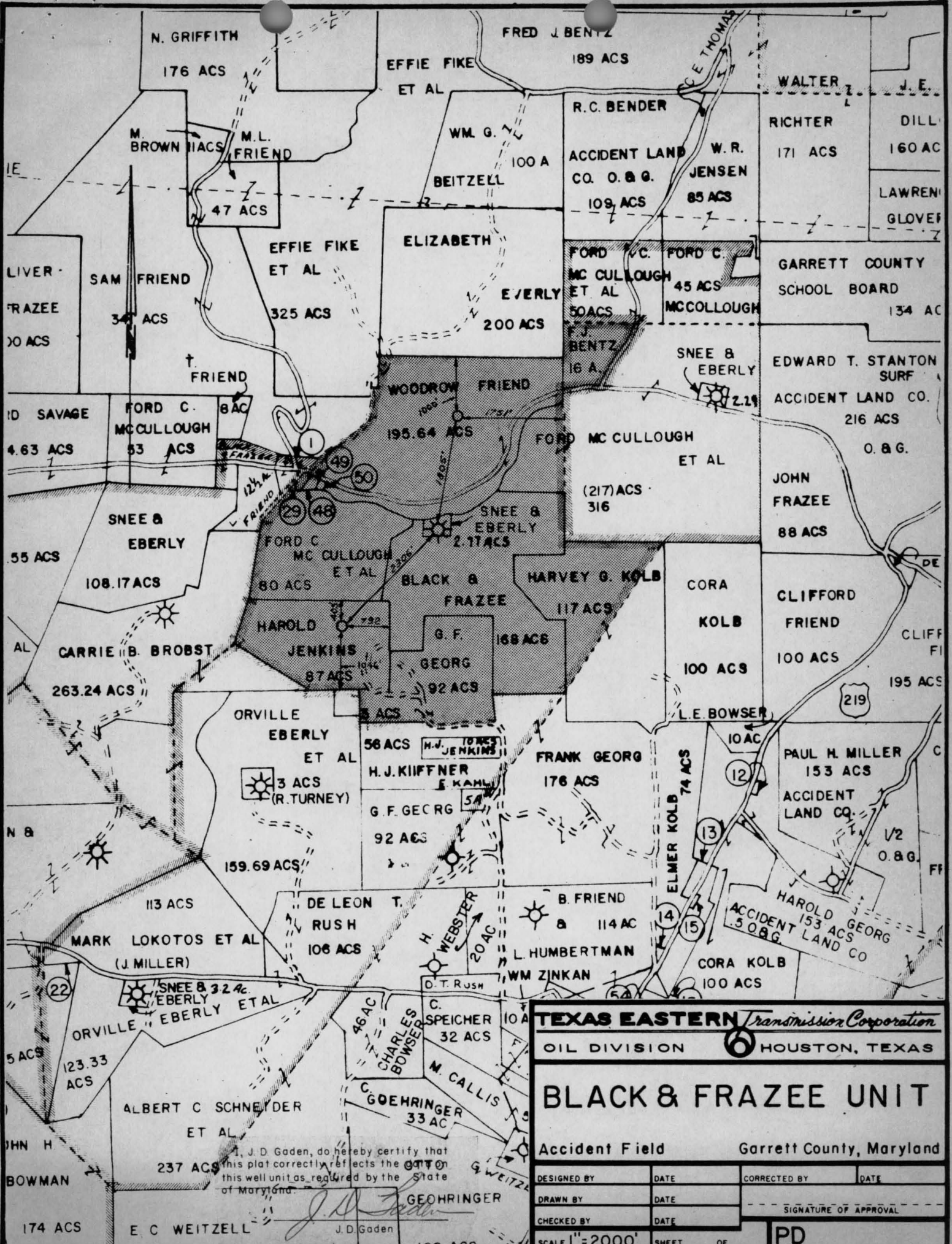
OWNER <u>Texas Eastern Transmission Corp.</u>	LOCATION OF WELL
STREET or R.F.D. _____	COUNTY <u>Garrett</u>
POST OFFICE <u>Box 2521</u> <u>Houston, Texas 77001</u>	NEAREST POST OFFICE <u>Accident, Maryland</u> Distance from Post Office <u>10,938'</u>
PERMIT TO DRILL WELL NOT TO BE FILLED IN BY APPLICANT	Direction from Post Office <u>N 10°</u> <u>05 min. 12 sec. W</u>
PERMIT NO. <u>41 - (Forty One)</u>	APPROXIMATE DEPTH OF WELL (feet) <u>7800'</u> METHOD OF DRILLING <u>Rotary (air)</u>
The permit is herewith granted subject to the conditions stipulated. <i>Kenneth B. Weaver</i> Director	DEEPEST GEOLOGIC FORMATION WELL WILL BE DRILLED <u>Oriskany</u> DISTANCE OF WELL LOCATION TO NEAREST BUILDING (feet) <u>1145'</u>
Date <u>June 9, 1961</u>	NUMBER OF SHIFTS PER DAY <u>Three</u>
Special conditions that may apply: Names of Drillers must be furnished prior to drilling	LICENSED DRILLER IN CREW OF EACH SHIFT <u>NAME</u> <u>ADDRESS</u> To be furnished These names may be supplied later but before drilling begins

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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