

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

Permit Number 103  
 Well Number 4  
 Company Texas Eastern  
 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>Mitchell Rush #4</u>	Size of Casting and Tubing	Used in Drilling	Left in Well	Packers: Type, Size and Depth
ELEVATION: <u>2473' GR</u> LEASE: _____	13-3/8"	250'	250'	None
DRILLING COMMENCED: <u>10-15-73</u> DRILLING COMPLETED: <u>11-22-73</u>	9-5/8"	3021'	3021'	None
PRODUCTION: <u>Gas</u>	7"	7615'	7615'	None
RESERVOIR PRESSURE _____ psig _____ hrs.				
WELL TREATMENT: (Shooting, Acidizing, Fracturing, Etc.)				
<u>Oriskany wet and not treated.</u>				PERFORATIONS AT: 7436-42', 7424-32' 7415-18', 7404-08' 7396-7400', 7287-97', 7276-80', 7259-69' and 7245-50'
<u>Chert thru perforations with 5000 Gallons 15%</u>				
<u>HCL and 44,000 gallons 5% gelled HCL with</u>				
<u>28,000# sand in two stages. Used 60 perf</u>				
<u>balls ahead of 2nd stage.</u>				
RESERVOIR PRESSURE AFTER TREATMENT: _____				
				CEMENTING DATA: (Size Pipe, Depth, No. Bags, Date)
				13-3/8", 250', 250 sacks 10-17-73
				9-5/8", 3021', 1125 sacks 10-31-73
				7", 7615', 1st Stage: 330 sacks around bottom
				2nd Stage: 1185 sacks thru DV Tool
				@ 6507' 11-16-73
RESULTS AFTER TREATMENT: <u>Well Tested</u>				
<u>6500 MCF/D 12-3-73</u>				
REMARKS:	GEOPHYSICAL LOGS (Type of Geophysical Logs Run on Well)			
	Formation Density Gamma Ray-Neutron			

## MARYLAND GEOLOGICAL SURVEY

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## GEOLOGICAL LOG

FORMATION	TOP	BOTTOM	GAS AT	OIL AT	WATER AT (Fresh or Salt Water)	REMARKS
Tully	6440					
Onondaga		7242				
1st Huntersville Chert	7242	7395				Constant increase in gas flow throughout Chert to 3,275 MCF/D
2nd Huntersville Chert	7395	7570				
Needmore	7570	7602				
Oriskany	7602	7718				Plugged back TD 7482'
Helderberg	N.R.					

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

Date January 2, 19 74

APPROVED Paul S. Dremel

By Regional Manager  
(Title)

COMPANY Texas Eastern Transmission Corp.

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

Accident Quad 103  
Mitchell Rush Well  
JD 7718  
Compl. 11-22-73  
Gas Storage

APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL

(Applications must be submitted in triplicate)

MITCHELL RUSH WELL #4

OWNER TEXAS EASTERN TRANSMISSION CORPORATION

STREET or R.F.D. P. O. BOX 2521

POST OFFICE HOUSTON, TEXAS 77001

LOCATION OF WELL

COUNTY GARRETT

NEAREST POST OFFICE ACCIDENT MARYLAND

Distance from Post Office 11,796.64'

Direction from Post Office S 86° 46' 53" W

From NE Corner of Post Office

PERMIT TO DRILL WELL

NOT TO BE FILLED IN BY APPLICANT

PERMIT NO. 103

The permit is herewith granted subject to the conditions stipulated.

*Genell D. Weave*  
Director

Date 7-19-73

Special conditions that may apply:

GAS STORAGE WELL ONLY. NAMES OF DRILLERS MUST BE FURNISHED PRIOR TO DRILLING OF WELL.

SEE ADDITIONAL REQUIREMENTS ATTACHED.

APPROXIMATE DEPTH OF WELL (feet) 7535'

METHOD OF DRILLING ROTARY

DEEPEST GEOLOGIC FORMATION  
WELL WILL BE DRILLED INTO DEFINITE HELDEBERG

DISTANCE OF WELL LOCATION  
TO NEAREST BUILDING (feet) There are no  
buildings within 1000' of well site

NUMBER OF SHIFTS PER DAY THREE

LICENSED DRILLER IN CREW OF EACH SHIFT

NAME

ADDRESS

TO BE FURNISHED

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

