State of Maryland
partment of Natural Resources
Energy & Coastal Zone Administration
Tawes State Office Building
Annapolis, Maryland 21401

Permit Number 111
Well Number M. Rush #5
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 WE	LL: Gas S	torage (Oil. G	as, Other)	
NAME & WELL NO. M. Rush #5	Size of Casting and Tubing	Used in Drilling	Left in Well	Packers: Type, Size and Depth	
ELEVATION: 2449 LEASE: Wellborn	20" OD		22'	None	
DRILLING COMMENCED: 8-22-77 COMPLETED: 10-9-77	13 3/8" OD		591'	None	
PRODUCTION: Gas Storage Wells	9 5/8" OD		2982'	None	
Natural flow too small to measure.	7" OD	1,000	7676'	None	
SURFACE RESERVOIR PRESSURE 92 psig 12 hrs.					
WELL TREATMENT: (Shooting, Acidizing, Fracturing, Etc.)					
I. Acidized OH Orisk 7680-7770' w/5000 gals		120		PERFORATIONS AT:	
15% HCL NE Acid				None, Completed	
II. Acid-sand-frac OH Orisk 7680-7770' w/40,000				Open hole Oriskan	
gals 5% HCL, 60,000# 100 mesh sd.					
	CEMENTING DATA: (Size Pipe, Depth, No. Bags, Date)				
	20" Casing - cemented with 22 sx Reg. 2% CaCl ₂				
	13 3/8" Casing - Cemented with 250 sx Thixotropic				
	cement and 100 sx Class "H" 2% CaCl ₂				
RESERVOIR PRESSURE AFTER TREATMENT:	9 5/8" Casing - Cemented with 700 sx Halliburton				
Not Taken	lite and 200 sx Class "H" 2% CaCl2				
	7" Casing - Cemented 2 stages - 1st 325 sx 25-75				
RESULTS AFTER TREATMENT:	Poz and 60 sx Latex; 2nd stage 1050 sx 25-75				
460 MCFGD	Poz and 60 sx Latex.				
REMARKS:	GEOPHYSIC	CAL LOGS	(Type of G	eophysical Logs	
Halliburton Pkr Shoe 7676' Halliburton DV Pkr 6273'	Run on Well) GR Directional; Form Density; Temp.				

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GEOLOGICAL LOG

FORMATION	TOP	воттом	GAS AT	OIL AT	WATER AT (Fresh or Salt Water)	REMARKS
Tully Lime Onondaga Lime Huntersville Chert Needmore Shale Oriskany Sand Heldeberg Lime	6758 7511 7534 7649 7680 7770	6770 7528 7649 7680 7770	TD Lo	g Depth	7788'	No gas in Chert Gas Flo natural too smal to meas.

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

Date January 18 ,	19_78
APPROVED D.J. Junde	partis (1)
By Sr. Engineer (Title)	
COMPANY Texas Fastern Trans	Corp

ENERGY AND COASTAL ZONE ADMINISTRATION
DEPARTMENT OF NATURAL RESOURCE
TAWES STATE OFFICE BLDG.
TAYLOR AVENUE
ANNAPOLIS, MARYLAND 21401

APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL

(Applications must be submitted in triplicate)	Rush, Well#5
OWNER Texas Eastern Transmission Corporation STREET or R.F.D. P.O. Box 2521 POST OFFICE Houston, Texas 77001 PERMIT TO DRILL WELL	LOCATION OF WELL COUNTYGarrett NEAREST POST OFFICEAccident Distance from Post Office13,604.60' Direction from Post OfficeS 85° 02' 15" W
NOT TO BE FILLED IN BY APPLICANT PERMIT NO. The permit is herewith granted subject to the conditions stipulated. Mining Administrator Date July 11, 1977	APPROXIMATE DEPTH OF WELL (feet)
Special conditions that may apply: Gas storage well only additional requirements attached	NUMBER OF SHIFTS PER DAY LICENSED DRILLER IN CREW OF EACH SHIFT NAME ADDRESS Melvin M. England Box 214, Grantsville, M.D. Clifford Hames Box 591, Buchannon, W.Va. John L. Nestor Box 205, Hambleton, W.Va. Ernest W. Nazelrod Friendsville, Maryland 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.

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