

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

Permit Number 115
 Well Number 1
 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.	Size of Casting and Tubing	Wt. & Grade Used in Drilling	Left in Well	Packers: Type, Size and Depth
<u>H. Miller #1</u>				
ELEVATION: <u>2333' Grd.</u> LEASE: <u>Miller</u>	<u>20" OD</u>		<u>12.00'</u>	
DRILLING COMMENCED: <u>4/2/79</u> DRILLING COMPLETED: <u>6/6/79</u>	<u>13 3/8" OD</u>	<u>48# H-40</u>	<u>445.40'</u>	
PRODUCTION: <u>Oriskany - Natural too small to measure.</u> <u>Chert - Natural too small to measure.</u>	<u>9 5/8" OD</u>	<u>36# K-55</u>	<u>3619.81'</u>	
Surface RESERVOIR -PRESSURE <u>1783</u> psig <u>24</u> hrs.	<u>7" OD</u>	<u>29# N-80</u>	<u>7441.00'</u>	
WELL TREATMENT: (Shooting , Acidizing, Fracturing, Etc.) <u>Oriskany (OH) 7441-7576' Acid Sd. Frac 40000 gals</u>	<u>2 3/8" OD</u>	<u>4.7# J-55</u>		<u>7322.08'</u>
<u>3% HCL w/50,000# Sd.</u>				<u>PERFORATIONS AT:</u>
<u>Chert Perfs 7326-7370' 2500 gals 7 1/2% MCA +</u>				<u>7326-7370'</u>
<u>40000 gals gel wtr w/46,000# sd.</u>				<u>OH 7441-7576'</u>
CEMENTING DATA: (Size Pipe, Depth, No. Bags, Date)				
	<u>20" csg cmt'd w/14 sx cmt.</u>			
	<u>13 3/8" csg cmt'd w/200 sx Chem Comp & 170 sx</u>			
	<u>Class "H" 3% CaCl. Good cmt returns.</u>			
RESERVOIR PRESSURE AFTER TREATMENT:	<u>9 5/8" csg cmt'd w/1440 sx Halliburton lite &</u>			
<u>Gas Storage Field - Press variance due to</u>	<u>300 sx Chem Comp. Good cmt returns.</u>			
<u>withdrawal and injection</u>	<u>7" csg cmt'd 1st stage thru shoe (7441') w/300 sx</u>			
RESULTS AFTER TREATMENT:	<u>25-75 Poz & 100 sx Latex cmt. 2nd Stage thru DV</u>			
<u>Oriskany 1,125 MCFGD</u>	<u>tool at 6289' w/1200 sx 25-75 Poz. 512 sx Chem</u>			
<u>Chert 950 MCFGD</u>	<u>Comp & 100 sx Latex cmt; cmt returns to surface.</u>			
GEOPHYSICAL LOGS (Type of Geophysical Logs Run on Well)				
REMARKS:				
<u>DV Collar Pkr 6289'</u>		<u>Continuous Directional 446-7431'</u>		
<u>7" Csg set at 7441' - 6 1/8" hole drld to TD</u>		<u>Compensate Form. Den. GR 100-7568'</u>		
<u>7576' - Oriskany 7441-7576', completed open</u>		<u>Temperature 6550-7570'</u>		
<u>hole. Chert perfs 7326-7370'.</u>		<u>Induction 875-7431'</u>		

MARYLAND GEOLOGICAL SURVEY

The Johns Hopkins University
BALTIMORE, MARYLAND 21218

GEOLOGICAL LOG

FORMATION	TOP	BOTTOM	GAS AT	OIL AT	WATER AT (Fresh or Salt Water)	REMARKS
Tully Lime	6570					
Omondaga Lime	7296					
Chert	7312	7413				Gas Natural flow too small to measure
Needmore Shale	7413	7441				
Oriskany Sand	7441	7570				Gas Natural flow too small to measure
Heldeberg Lime	7570					

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

Date July 3, 1979

APPROVED D. J. Lund

By Engineer

(Title)

COMPANY Texas Eastern Corporation

A M E N D E D
APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL

(Applications must be submitted in triplicate)

Henry Miller #1

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
 Distance from Post Office 10,165.40'
 Direction from Post Office N 61° 01' 08" E

PERMIT TO DRILL WELL

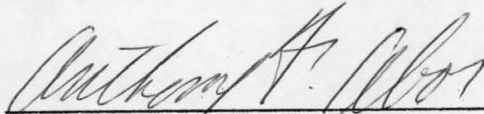
NOT TO BE FILLED IN BY APPLICANT

PERMIT NO. 115

APPROXIMATE DEPTH OF WELL (feet) 7625'

The permit is herewith granted subject to the conditions stipulated.

METHOD OF DRILLING Rotary


 Mining Administrator

DEEPEST GEOLOGIC FORMATION
 WELL WILL BE DRILLED into Helderburg

DISTANCE OF WELL LOCATION
 TO NEAREST BUILDING (feet) 1080 feet

Date October 31, 1977

Special conditions that may apply:

NUMBER OF SHIFTS PER DAY _____

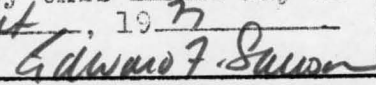
- (1) Gas storage well only.
- (2) Additional requirements attached.

LICENSED DRILLER IN CREW OF EACH SHIFT

<u>NAME</u>	<u>ADDRESS</u>
Melvin M. England	Box 214, Grantsville, Md.
Clifford Hames	Box 591, Buchannon, W.Va.
John L. Nestor	Box 205, Hambelton, W.Va.
Ernest W. Nazelrod	Friendsville, Maryland

Note: This permit has been amended to reflect a change in well location only.

These names may be supplied later but before drilling begins

Approved as to legal form and sufficiency this 25 day of Oct, 1977

 Assistant Attorney General

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.

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

APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL

(Applications must be submitted in triplicate)

H. Miller #1

OWNER Texas Eastern Transmission Corporation
 STREET or R.F.D. P. O. Box 2521
 POST OFFICE Houston, Texas 77001

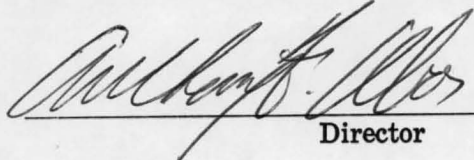
LOCATION OF WELL _____
 COUNTY Garrett
 NEAREST POST OFFICE Accident
 Distance from Post Office 9,870.62'
 Direction from Post Office N 57° 47' 28" E

PERMIT TO DRILL WELL

NOT TO BE FILLED IN BY APPLICANT

PERMIT NO. _____
 The permit is herewith granted subject to the conditions stipulated.

APPROXIMATE DEPTH OF WELL (feet) 7,625
 METHOD OF DRILLING Rotary
 DEEPEST GEOLOGIC FORMATION
 WELL WILL BE DRILLED Into Helderberg
 DISTANCE OF WELL LOCATION
 TO NEAREST BUILDING (feet) 1335'


 Director

Date _____
 Special conditions that may apply:
Gas Storage Only
 Names of drillers must be furnished prior to drilling of well.

NUMBER OF SHIFTS PER DAY 3
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

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.

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T.E.T.Co.
5309
129' Ac.
Perp. - G.S.

98.74 Ac.

20 Ac.

Liberty Rd.
Fish &
Game
47.93 Ac.

9 Ac.
Walter C. Resh

Wilmer Margraff

stern
d. Co.)

Raymond C. Bender

T.E.T.Co.
5346
100 Ac.
Perp. - M.I.

T.E.T.Co.
5211
9.84 Ac.
Perp. G.S.

T.E.T.Co.
(John Holman)

TE
76
177.
2-2

T.E.T.Co.
(Joseph R. Collier)

Texas Eastern
(Raymond Bender)

5320
195 Ac.
10-28-65

T.E.T.Co. - Full
5224-1/2 W.I.
5348-1/2 M.I.
6.85 Ac.
11-22-79
& Perp.

T.E.T.Co.
5237
(5 Ac.)
Perp. G.S.
M. Miller

Leo C. Crismer

5154
4.30 Ac.
EXPIRED

T.E.T.Co.
8148
3.33 Ac.
11-11-78
Van Marter

T.E.T.Co.
5250
0.50 Ac.
10-29-78
H. Rogers

T.E.T.Co.
5238
0.25 Ac.
4-28-78
Fran. Miller

T.E.T.Co. & Kolb

3.8 Ac.

(113.40 Ac.)



Cora A.

EXPIRED

Clifford Friend

EXP

5251
1 Ac.
11-19-70

5236 - EXP.
5350A-1/2 M.I.
5350-1/2 M.I.
268.4 Ac.
1-23-68
& Perp.

T.E.T.Co.
5231(OA)
Perp. G.S.
(12.2 Ac.
this tr.)

H. MILLER #1
Prop. Loc.

T.E.T.Co.
(Federal - BLM-A-034129)

T.E.T.Co.
5286
125.5 Ac.
Perp. - G.S.

T.E.T.Co.
5175
7 Ac.
Perp. G.S.

[FWI] 5153
[FWI] 5244
FWI 5173
& 5174

FWI 5172
& 5173

5153, 5172, 5244
T.E.T.Co.
8130
7 Ac.
11-24-
R. Ryle

Texas Eastern & Henry Miller

Savage River
6
7813'

T.E.T.Co.
4956
973.56 Ac.
Perp. - G.S.

Savage River
7
8130'

T.E.T.Co.
(Chris M. Glass)

(32.7 Ac.)

T.E.T.Co.
4953
104.70 Ac.
Perp. - G.S.
(72 Ac.)

Savage River
5
G.S.

Texas Eastern
(Freeman Bowser)

(14 Ac.)

T.E.T.Co.
4957
13.46 Ac.
Perp. M.I.

T.E.T.Co. 7631
4952
77.6 Ac.
Perp. - G.S.

T.E.T.Co.
(W. Snee)

5276
13.9 Ac.
4-25-71
EXPIRED
Kenneth Resh

T.E.T.Co.
1/2 M.I.
1/2 W.I.
5144 Perp.
8089 7-18-78
95 Ac.

T.E.T.Co.
(Simon Burkholder
& Jonas R. Kamp)

Texas Eastern Transmission Corporation
ACCIDENT FIELD
Garrett Co., Maryland
H. MILLER #1
Scale 1" = 1,000'