

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES

The Johns Hopkins University
BALTIMORE 18, MARYLAND

BARBARA MILLER WELL NO. 1

WELL COMPLETION REPORT

PAGE 1 OF 2 PAGES

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

Elevations:

RDB 2,430.95
Ground 2,414.50

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.....16.....

Name of Owner Texas Eastern
Transmission Corporation

PUMPING TEST

Hours Pumped

Type of Pump Used.....

Pumping Rate
Gallons per Minute.....

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

SurfaceFt.

PUMP INSTALLED

Type

Capacity

Gallons per Minute.....

Gallons per Hour.....

Pump Column Length.....Ft.

REMARKS

Reworked well.

Sidetracked original hole

at 6,626 ft. Drilled to 7,205 ft. TD in

Helderberg Limestone casing well with 4 1/2" casing.

Well Was Completed

Date

Well Driller.....

J. D. [Signature]

Signature

	FEET
	from.....to.....
Original Hole:	
Oriskany Sandstone	7,042 TD
Hole junked-top of junk 7,001 ft. Plugged back to 6,746 ft. Cut window in 7" casing from 6,626 to 6,651 ft. Sidetracked hole from 6,626 to 7,205 ft. TD	
Geological Data:	
Sidetract Hole:	
Top - Benson Sandstone	3,145 ft.
Top - Onondaga Limestone	6,860 ft.
Top - Huntersville Chert	6,884 ft.
Top - Needmore Shale	6,983 ft.
Top - Oriskany Sandstone	7,028 ft.
Top - Helderberg Limestone	7,164 ft.

	DIAM.	FEET
	(inches)	from.....to.....
Casing		
4 1/2" 13.5# N-80		
LT-C	0-7,200'	
Baker Guide Shoe	7,199'-	
	7,200'	
Baker Float Collar	7,183'-85'	
Halliburton DV Tool	6,542-44'	
Baker Metal Petal		
Baskets (2) at	6,882'	
	7,020'	
Baker Casing Centralizers		
(10) at	7,170' 7,118' 7,055'	7,022'
	6,928' 6,868' 6,707'	6,610'
	6,578' 6,509'	

Remarks: Reworked well: Pulled old tubing, and found tubing parted at 7,001. Could not fish out or bypass junk. Plugged well back to 6,746 ft. in 7" casing. Perforated 7" casing at 5,025-5,027 ft. Cement behind 7" casing from 5,027 ft. to surface with 1145 sx diacel cement and 75 sx common cement. Cut window in 7" casing from 6,626 to 6,651 ft. and drilled side-track hole to 7,205 ft. Ran 4 1/2" casing to 7,200 ft. and cemented first stage from 7,200 to 6,542 ft. with 25 cu. ft. diacel cement followed by 40 sx common cement with latex. Cemented second stage from 6,542 ft. to surface with 290 sx diacel cement followed by 50 sx common cement perforated 7,135-7,170 ft. slight natural flow. Acidized with 1,000 gals. 10% acid. Well flowed 150 MCFD gas. Reacidized with 1,000 gals MCA and 1,000 gal. 15% HCL acid. Well flowed 187 MCFD. Acidized perforations 7,135 to 7,170 ft. with 9,000 gals 15% HCL acid and 3,000 gals. 3 1/2% HCL acid. Well flowed 480 MCFD. Reperforated 7,142 to 7,162 ft. Well tested 560 MCFD gas. Set magnesium bridge plug at 7,100 ft. Perforated 7,024 to 7,052 ft. Slight natural flow. Hydro - Jet perforated at 7,045, 7,035, 7,032 and 7,028 ft.

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The Johns Hopkins University
BALTIMORE 18, MARYLAND

BARBARA MILLER WELL NO. 1

WELL COMPLETION REPORT Page 2 of 2

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

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.....16.....

Name of Owner Texas Eastern
Transmission Corporation

F E E T
from.....to.....

D I A M.
(inches)

F E E T
from.....to.....

PUMPING TEST

Hours Pumped

Type of Pump Used.....

Pumping Rate
Gallons per Minute.....

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
SurfaceFt.

PUMP INSTALLED

Type

Capacity

Gallons per Minute.....

Gallons per Hour.....

Pump Column Length.....Ft.

REMARKS

.....
.....
.....
.....
.....
.....
.....

Rec'd 2/26/65

Well Was Completed
Date September 21, 1964

Well Driller
J. D. Gaden Signature

Remarks: (Cont.) Used 115 sx 20-40 sand and 250 gals 15% HCL acid at each perforating level. Well flowed 260 MCFD gas. Acidized perforations 7,024 to 7,052 with 1,000 gals. MCA. Well flowed 2,580 MCFD gas. Reacidized perforations 7,024 to 7,052 with 10,000 gals. 15% HCL acid. Well flowed 9,881 MCFD gas. Drilled out magnesium bridge plug at 7,100 ft. Cleaned up well and tested flow from both zones together at 13,000 MCFD gas at 375 psi.

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES

The Johns Hopkins University
BALTIMORE 18, MARYLAND

BARBARA MILLER UNIT
NO. 1 WELL

WELL COMPLETION REPORT

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

Elevation 2415.53 Ground		WELL DESCRIPTION			Permit Number..... 16
WELL LOG		CASING AND SCREEN RECORD			Name of Owner
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)			SNEE & EBERLY
		FEET	DIAM. (inches)	FEET	PUMPING TEST
		from.....to.....		from.....to.....	Hours Pumped.....
CLAY		from 0- to 20			Pumping Rate Gallons per Minute.....
SAND		20- 42			WATER LEVEL
RED ROCK		42- 120	13-3/8" OD set @ 14'		Distance from land surface to water:
LIME		120- 146	10-3/4" OD set @ 650' and		Before Pumping.....Ft.
SHALE		146- 150	cemented with 80 sacks		When Pumping.....Ft.
RED ROCK & SHELLS		150- 480	7" OD set @ 6975' and		APPEARANCE OF WATER
SAND		480- 512	cemented with 200 sacks of		Clear.....
SLATE & SHELLS		512- 570	High Early strength-Penn Dixie		Cloudy.....
RED ROCK		570- 589			Taste.....
SAND		589- 665	Fresh water @ 94'		Odor.....
SHALE		665- 673	Fresh water @ 160'		Height of Casing Above Land Surface .....Ft.
SAND		673- 685			PUMP
RED ROCK		685- 856	Drilling with cable tools to 2830'		Type.....
SAND		856- 913	Drilled with rotary 2830 to 7042'		Capacity
RED ROCK		913- 922			Gallons per Minute.....
SHAL E		922- 934	Air drilled 2830-3405'		Gallons per Hour.....
RED ROCK		934-1008	Fluid drilled 3405-6881'		Pump Column Length.....Ft.
SLATE & SHELLS		1008-1030	Gas drilled 6881-7042'		REMARKS
RED SHALE		1030-1038			.....
SLATE & SHELLS		1038-1300	Shallow gas in Benson Sand at		.....
RED SHALE		1300-1312	3150' testing 1,017M, blew down		.....
SLATE & SHELLS		1312-1700	rapidly and turned to salt water		.....
SAND		1700-1746	necessitating fluid drilling		.....
SLATE & SHELLS		1746-2673	from 3405 to 6881'.		.....
SAND		2673-2695			.....
SHALE		2695-2880	Gas at 6915-- 14M		.....
SAND		2880-2926	6930-- 671M		.....
SANDY SHALE		2926-3145	6955-- 735M		.....
SAND		3145-3210	7035-- 6,000M		.....
SANDY SHALE		3210-5866	7042-- 15,000M		.....
SHALE		5866-6077			.....
SHAL E & LIME		6077-6323	Shut-in pressure:		.....
LIME		6323-6343	96 hours 2979 psi		.....
SHALE		6343-6698			.....
SHAL E & LIME		6698-6860			.....
BROW N BREAK		6860-6863			.....
LIME		6863-6881			.....
CHERT		6881-6980			.....
SHALE		6980-7025			.....
SAND		7025-7042 TD			.....

Well Was Completed
Date..... 8-24-55
Well ~~LOG~~ **SNEE & EBERLY**
BY *[Signature]*
Signature

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

Barbara Miller #1

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

OWNER <u>William E. Snee & Orville Eberly</u>	LOCATION OF WELL										
STREET or R.F.D. <u>208 Union Trust Bldg.,</u>	COUNTY <u>Garrett</u>										
POST OFFICE <u>Uniontown, Pa.</u>	NEAREST POSTOFFICE <u>Accident, Md.</u>										
<p>PERMIT TO DRILL WELL</p> <p>NOT TO BE FILLED IN BY APPLICANT</p> <p>PERMIT NO. <u>16 (sixteen)</u></p> <p>The permit is herewith granted subject to the conditions stipulated.</p> <p><i>John T. Sengstacke</i> Director</p> <p>Date <u>May 24, 1955</u></p> <p>Special conditions that may apply:</p>	<p>Distance from Post Office <u>7,750'</u></p> <p>Direction from Post Office <u>S 70° E</u></p>										
	APPROXIMATE DEPTH OF WELL (feet) <u>7,400'</u>										
	METHOD OF DRILLING <u>Cable Tool to 1,000'; Rotary from 1,000' to T.D.</u>										
	DEEPEST GEOLOGIC FORMATION WELL WILL BE DRILLED <u>Helderberg</u>										
	DISTANCE OF WELL LOCATION TO NEAREST BUILDING (feet) <u>385'</u>										
	NUMBER OF SHIFTS PER DAY <u>Cable Tools - 2 Rotary - 3</u>										
	<p>LICENSED DRILLER IN CREW OF EACH SHIFT</p> <table border="1"> <thead> <tr> <th>NAME</th> <th>ADDRESS</th> </tr> </thead> <tbody> <tr> <td colspan="2">Cable Tools:</td> </tr> <tr> <td colspan="2"><u>James McClenethan and Floyd Wright,</u></td> </tr> <tr> <td colspan="2"><u>c/o J. A. Fox, P.O.Box 205,</u></td> </tr> <tr> <td colspan="2"><u>Washington, Pennsylvania.</u></td> </tr> </tbody> </table>	NAME	ADDRESS	Cable Tools:		<u>James McClenethan and Floyd Wright,</u>		<u>c/o J. A. Fox, P.O.Box 205,</u>		<u>Washington, Pennsylvania.</u>	
	NAME	ADDRESS									
	Cable Tools:										
<u>James McClenethan and Floyd Wright,</u>											
<u>c/o J. A. Fox, P.O.Box 205,</u>											
<u>Washington, Pennsylvania.</u>											
<p><u>Names & Addresses of Rotary drillers will be furnished before rotary drilling commences.</u></p> <p><u>These names may be supplied later but before drilling begins</u></p>											

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 sheet

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