STATE OF MARYLAND

DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES

The Johns Hopkins University BALTIMORE 18, MARYLAND

WELL COMPLETION REPORT

MITCHELL RUSH WELL NO. 1

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

GROUND: 2,352.44 ft.	ESCRIPTION	Permit Number 20 Name of Owner Texas Eastern Transmission Corporation			
WELL LOG State the kind of formations penetr depth, their thickness, and if was	CASING AND SO State the kind and size screen, and other accesso give diameter of well)				
	FEET		DIAM.	FEET	PUMPING TEST
	fromto		(inches)	fromto	Hours Pumped
ORIGINAL HOLE:		CASING			Type of Pump Used
Helderberg Lime	7,237 TD	4 1/2" 13.50# N-80 LT&C	4 1/2"	0-7,276	Pumping Rate Gallons per Minute
Hole junked - top of junk at 6,679 ft.		Baker BullPlug Sho	e 4 1/2"	7,275'-76	WATER LEVEL
plugged back to 6,587 ft.		Baker Ported Baffl	e		Distance from land surface to
Cut window in 7" casing		Float Collar	4 1/2"	6,973'-75	water:
at 6,542-6,567. Side					Before PumpingFt.
tracked hole from 6,542 to 7,283 ft. TD.		Baker Float Collar	4 1/2"	6,939'-40	When PumpingFt.
GEOLOGICAL DATA:		Baker Stage Collar	4 1/2"	6,455'-57	APPEARANCE OF WATER
SIDETRACT HOLE:		Baker Metal Petal	4 1/2"	7,120	Clear
		Baskets: (4)		7,114	Cloudy
	6,867 ft.			6,981	Taste
Top - Onondaga Limestone Top - Huntersville Chert			4 1/2"	6,978	Odor
Ton - Needmore Shale	7 088 ft	7 0521 6 9	871 6 941	7,082'	
Top - Huntersville Chert Top - Needmore Shale Top - Oriskany Sandstone Top - Helderberg Limeston	7.120 ft.	6.519' 6.4	87' 6,420	6,388	Height of Casing Above Land
Top - Helderberg Limeston	e 7,243 f	t. '			Surface 1 1/2 Ft.
					PUMP INSTALLED
Remarks: Reworked well: Pe					
7" casing from 4,190 ft. to	surface w	ith 1650 cu ft. lity	poz follo	wed by 70	Capacity coment.
sx common cement. Replaced to clean out original well b	ore stuc	k drill nine and co	. White	actempting	Gallons per Minute
6,679 ft. Plugged back to	.587 ft.	and cut window in 7	casing	at 6.542	Gallons per Hour
5,567 ft. Drilled sidetract	hole to	7,283 ft. T. D. No	tests whi	le drillir	Pump Column LengthFt.
fluid drilling. Ran 4 1/2"	13.5# N-8	O casing with equip	ment to 7	.276 ft.	Topics of a constant and a second
Cemented first stage from 6	973 to 6,	455 ft. With 30 sx	litepoz	and 80 sx	REMARKS
common cement. Cemented sec litepoz and 50 sx. Common c	ond stage	erforated sessing 7	urface wi	th 600 sx	Reworked well.
to 7,067 ft. Well flowed 2	340 MCFD	Gas Acidized well	with 2 0	120 and 6,	hole at 6,542 ft.
Mud Acid. Well flowed 4,910	MCFD gas	. Acidized well wit	th 10.000	gal. 159	
HCL acid. Well flowed 6,175	MCFD gas	at 319 psi.	20,000	8	TD in Helderberg
					Limestone. Cased
					well with 4 1/2"
					casing.
	A THE RESERVE OF THE PARTY OF T				Well Was Completed
			THE STATE OF THE STATE OF		Date July 29, 1964
					Date July 29, 1964
		(Reid 2/26)	1		Date July 29, 1964 Well Driller

STATE OF MARYLAND

DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES

The Johns Hopkins University BALTIMORE 18, MARYLAND

WELL COMPLETION REPORT

Elevation 2338 DFThis report must be submitted within 30 days after completion of the well

Mitchell Rush Unit No. 1 WELL DESCRIPTION					Permit Number 20	
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)				Name of Owner Wm. E. Snee & O. Eberly
Space Clay Sand Red Rock & Sand	FEET fromto	7 20 35 100	10 3/4 0	DIAM. (inches) D Casing D " D " Tubing	FEET from to set @ 29' # @ 548' # @ 6968'	PUMPING TEST Hours Pumped Type of Pump Used Pumping Rate Gallons per Minute
Slate & Shells Red Rock Sand Red Rock & Shells Sand Red Rock	100 180 190 245 360 375	180 190 245 360 375 380				WATER LEVEL Distance from land surface to water: Before Pumping
Slate & Shells Red Rock Slate & Shells Red rock Slate & Shells Red sand & shells	380 420 425 605 610 650	420 425 605 610 650 675				APPEARANCE OF WATER Clear Cloudy Taste
Slate & Shells Red rock Slate & Shells Red rock Slate & Shells Sandy lime	675 755 760 1198 1205 3075	755 760 1198 1205 3075 3095	ı	ter @ 100 bailers p below 10	er hour	Odor Height of Casing Above Land Surface Ft
Slate & shells Sandy lime Slate & Shells Sandy lime Slate & Shells	3095 3345 3380 4890 5050	3345 3380 4890 5050 5185	Gas @ 69	13 400	MCF per d	Type Capacity Gallons per Minute
Shale Slate & Shells Gray Shale Slate & Shells Brown Shale Slate & Shells	5185 5198 5265 5490 5560	5198 5265 5190 5560 5595 5690	from bot	of 2,97 h chert of n pressur	MCF per d	REMARKS
Dark Brown Shale Black Shale - limey Lime (Tull) Shale Lime - Black	5595 5690 6085 6330 6345 6826	6085 6330 6345 6826 6836			6.50 (F14) (F4) (F15) (F3)	
Lime - Light Shale - Black Brown Break Lime (Onondaga) Chert	6836 6846 6946 6948 6968	6846 6946 6948 6968 7080	Cont'd Sand (On	cisicano)	100 March	Well Was Completed 1956 Date
Shale Lime	7080 7104	7104	Lime	,	109 7230 7230 7237	Well Drille Spee & Eberly Signature

#20

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

MITCHELL RUSH #1

20

(Applications must be submitted in triplic	ate)				
OWNER WILLIAM E. SNEE & ORVILLE EBERLY STREET or R.F.D. 208 UNION TRUST BLDG.	LOCATION OF WELL COUNTY GARRETT				
POST OFFICE UNIONTOWN, PENNSYLVANIA	NEAREST POSTOFFICE ACCIDENT, MARYLAND Distance from Post Office 10,950'				
PERMIT TO DRILL WELL	Direction from Post Office S.78W.				
NOT TO BE FILLED IN BY APPLICANT PERMIT NO. 2.0 (Twenty)	APPROXIMATE DEPTH OF WELL (feet) 7,500' METHOD OF DRILLING CABLE TOOLS				
The permit is herewith granted subject to the conditions stipulated.	DEEPEST GEOLOGIC FORMATION WELL WILL BE DRILLED HELDERBERG				
Date Coche 13, 1950	DISTANCE OF WELL LOCATION TO NEAREST BUILDING (feet) 2,000				
Date <u>Cochte</u> /3/955 Special conditions that may apply:	NUMBER OF SHIFTS PER DAY 2 LICENSED DRILLER IN CREW OF EACH SHIFT				
	NAME ADDRESS -VON CLUTTER TERRA ALTA, W. VA.				
	- WSQQCocoroocshedobeforecdxidding ALVIE M. RUSH R.D.#1, Nineveh, Pennsylvania 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 SHEET

NOTE