



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM

WELL PERMIT

DEP USE ONLY	
Permittee's eFACTS ID 159257	Auth ID 1175564
Watershed Name Mudlick Run	Quality HQ

Permittee CNX GAS COMPANY, LLC		OGO.# OGO-37312	Permit Number 37-063-37522-00-00, 01-00	Date Issued 05/11/2017
Address 1000 CONSOL ENERGY DRIVE		Farm Name & Well Number MARCHAND 3MHSUT		Well Serial # PA0632256HS UT
		Municipality North Mahoning Twp	County Indiana	
CANONSBURG, PA 15317		7 1/2' Quadrangle Name Marion Center		Map Section # 3
Phone (724) 627-1492	Project #		Latitude 40-51-11.4000	Longitude -79-1-59.9200
Surf Elev at Site 1534 feet	Anticipated Maximum TVD 12200 feet	Well Type GS	Offset distances referenced to NE corner of map section. South 7954 feet West 9214 feet	

This permit covering the well operator and well location shown above is evidence of permission granted to conduct activities in accordance with the Oil and Gas Act and the Oil and Gas Conservation Law, if the well is subject to that act and any rules and regulations promulgated thereunder, subject to the conditions contained herein and in accordance with the application submitted for this permit. This permit does not convey any property rights.

This permit and the permittee's authority to conduct the activities authorized by this permit are conditioned upon operator's compliance with applicable law and regulations.

Notification must be given to the district oil and gas inspector, the surface landowner and political subdivision of the date well drilling will begin at least 24 hours prior to commencement of drilling activities.

The permittee hereby authorizes and consents to allow, without delay, employees or agents of the Department to have access to and to inspect all areas upon presentation of appropriate credentials, without advance notice or a search warrant. This includes any property, facility, operation or activity governed by the Oil and Gas Act, the Oil and Gas Conservation Law, the Coal and Gas Resource Coordination Act and other statutes applicable to oil and gas activities administered by the Department. The authorization and consent shall include consent to the Department to collect samples of wastewaters or gases, to take photographs, to perform measurements, surveys, and other tests, to inspect any monitoring equipment, to inspect the methods of operation and disposal, and to inspect and copy documents required by the Department to be maintained. The authorization and consent includes consent to the Department to examine books, papers, and records pertinent to any matter under investigation pursuant to the Oil and Gas Act or pertinent to a determination of whether the operator is in compliance with the above referenced statutes. This condition in no way limits any other powers granted to the Department under the Oil and Gas Act and other statutes, rules and regulations applicable to these activities as administered by the Department.

This permit does not relieve the operator from the obligation to comply with the Clean Streams Law and all statutes, rules and regulations administered by the Department.

Special Permit Conditions:

Prior to setting casing/tubing in or producing from the shale lateral, the vertical portion of the hole, if it extends below the Kick-Off Point (KOP), must be plugged back to the KOP according to the requirements of §§ 78.91 through 78.95. The procedure used to plug this section of the well will be submitted with or as part of the Well Record and Completion Report.

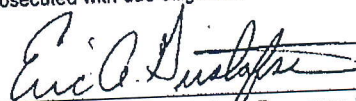
The Operator shall run a complete angular deviation survey of the intentionally deviated well and submit it to the Department with the other information required in the Well Record. The deviation survey is to be obtained by a responsible well surveying company and shall include a well location plat and vertical section of the borehole as drilled that shows comparison to the well location plat and vertical section as permitted. One copy shall be submitted to the Department and one copy shall be submitted to the Bureau of Topographic and Geologic Survey (500 Waterfront Dr., Pittsburgh, PA 15222).

The permittee shall not withdraw or use water from water sources within the Commonwealth of Pennsylvania to hydraulically fracture an unconventional formation unless the permittee does so in accordance with a Water Management Plan approved by the Department.

Any dam embankment utilized to impound freshwater or other fluids approved by the Department associated with drilling and hydraulic fracturing not requiring a permit pursuant to 25 Pa. Code Chapter 105 will be constructed in accordance with Department guidelines 5500-PM-OG0085 entitled, Design, construction and maintenance standards for dam embankments associated with impoundments for oil and gas wells."

063-37522-00-00, 01-00

This permit expires 05/11/2018 unless drilling is commenced on or before that date and prosecuted with due diligence.



Regional Oil and Gas Program Manager

JASON J BRANAN

Oil & Gas Inspector

131 BROADVIEW RD
NEW STANTON, PA 15672

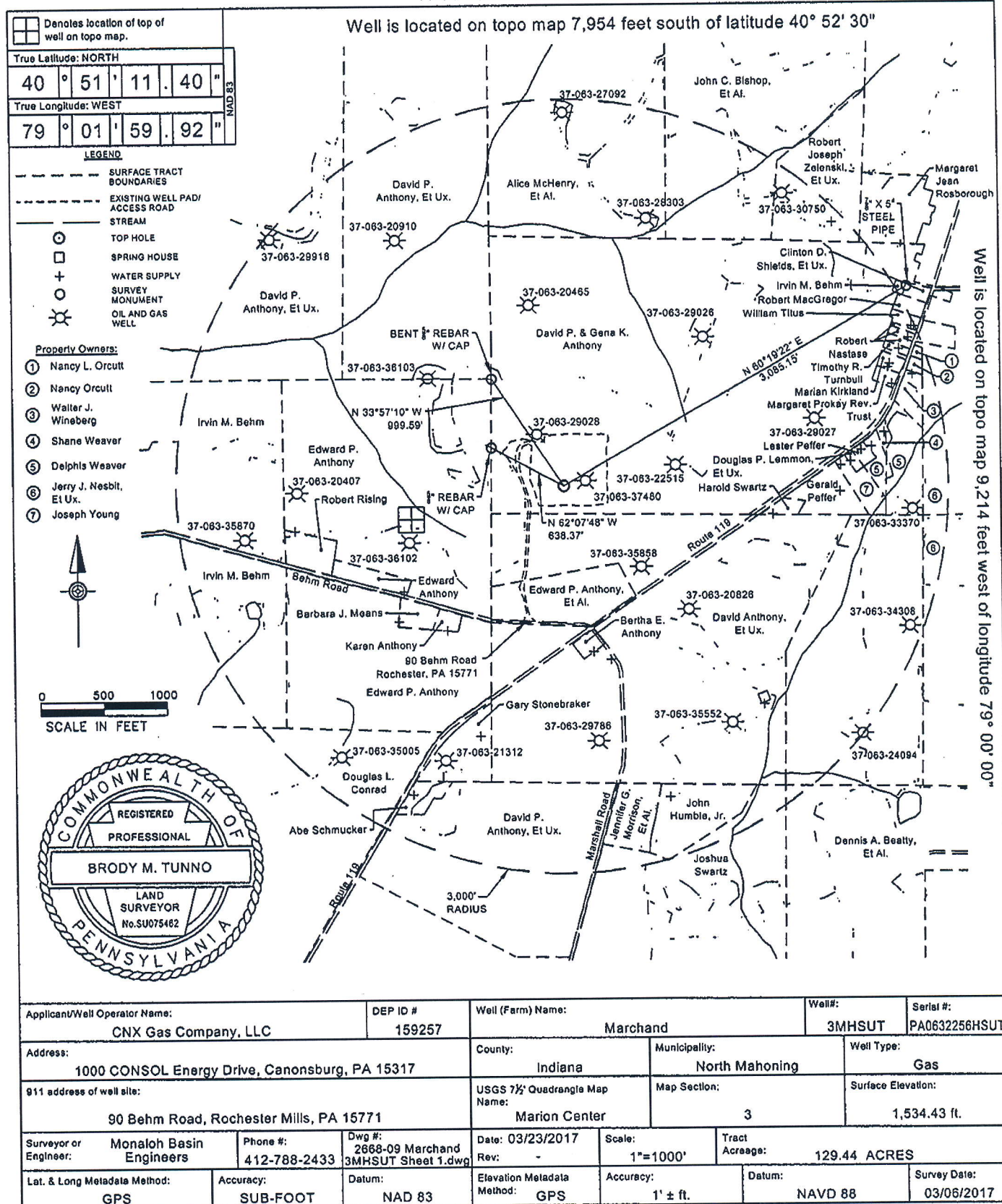
Address

724-925-5429

Phone Number

WELL LOCATION PLAT

Auth ID #:	37-063	-
Permit #:	37522-	G:
Project #:	00-00	C:



Page 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources in 1-866-255-5158.

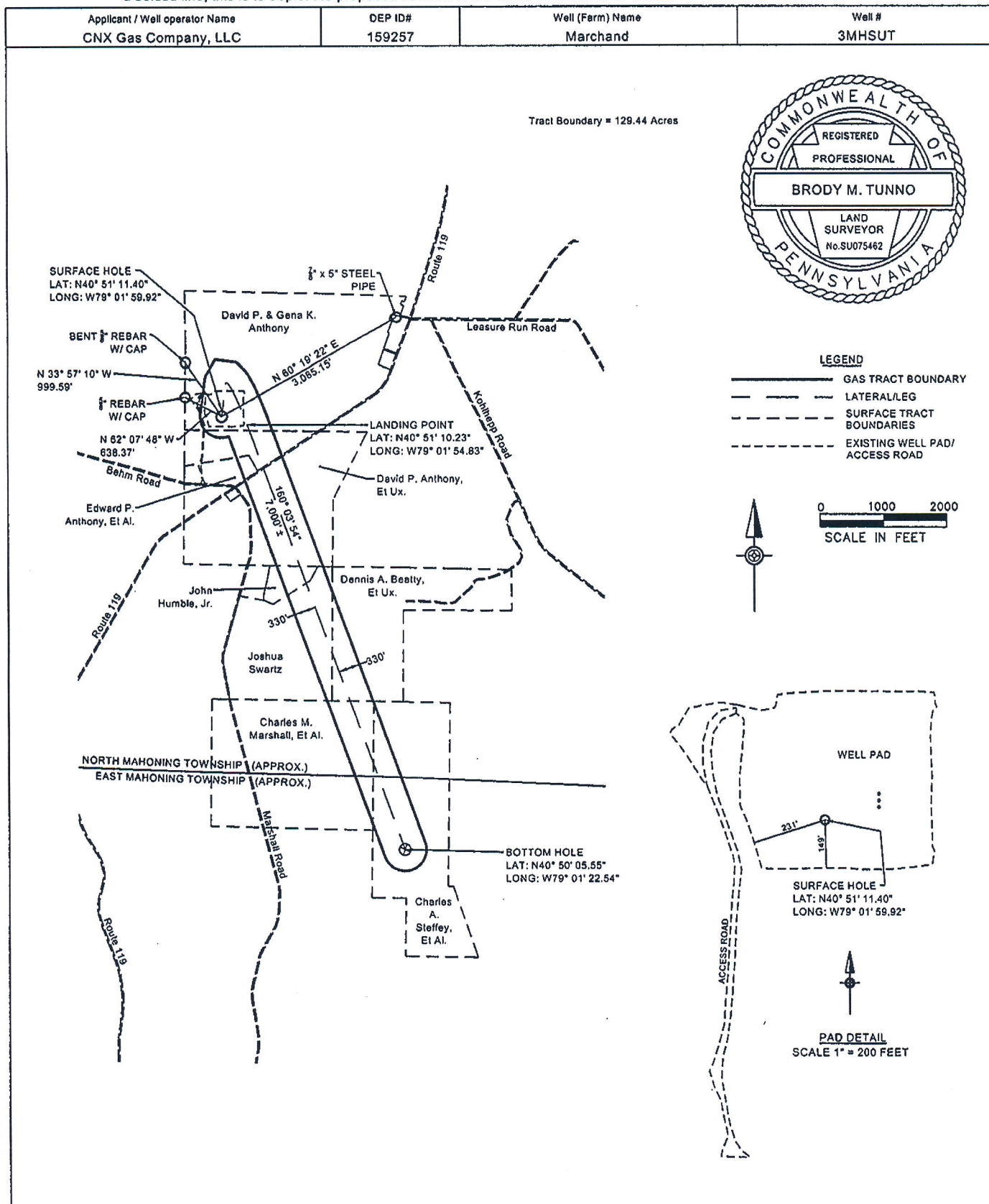
Applicant / Well Operator Name: CNX Gas Company, LLC	DEP ID#: 159257	Well (Farm) Name: Marchand	Well#: 3MHSUT	Serial #: PA0632256HSUT
Surface Landowner/Lessor: David P. Anthony & Gena K. Anthony		Angle & Course of Deviation (Drilling): Vertical to Horizontal	Anticipated True Vertical Depth Feet (TVD): 12,200'	Anticipated Total Measured Depth Feet (TMD): 19,357'
Target Formations(s): Point Pleasant		Deepest Formation to be penetrated: Trenton	Number of laterals: 1	Total footage to be drilled all laterals: 20,979'
Margaret Prokay Rev. Trust	Latitude: 40° 51' 19.38"N Longitude: 79° 01' 26.78"W (WELL)			2,671.34'
Robert Nastase	Latitude: 40° 51' 22.92"N Longitude: 79° 01' 25.13"W (WELL)			2,916.31'
William Titus	Latitude: 40° 51' 23.80"N Longitude: 79° 01' 24.53"W (WELL)			2,994.51'
William Titus	Latitude: 40° 51' 23.83"N Longitude: 79° 01' 24.81"W (WELL)			2,975.92'
Timothy R. Tumbull	Latitude: 40° 51' 22.02"N Longitude: 79° 01' 26.09"W (WELL)			2,812.74'
Marian Kirkland	Latitude: 40° 51' 20.94"N Longitude: 79° 01' 27.06"W (WELL)			2,702.74'
Marian Kirkland	Latitude: 40° 51' 20.68"N Longitude: 79° 01' 27.21"W (WELL)			2,683.03'
Walter J. Wineberg	Latitude: 40° 51' 20.14"N Longitude: 79° 01' 24.69"W (WELL)			2,847.26'
Robert Joseph Zelenski, Et Ux.	Latitude: 40° 51' 31.73"N Longitude: 79° 01' 33.03"W (WELL)			2,915.33'
Shane Weaver	Latitude: 40° 51' 15.68"N Longitude: 79° 01' 27.58"W (WELL)			2,522.36'
Delphis Weaver	Latitude: 40° 51' 14.62"N Longitude: 79° 01' 28.86"W (WELL)			2,408.87'
Lester Pepper	Latitude: 40° 51' 14.35"N Longitude: 79° 01' 29.93"W (WELL)			2,323.09'
Douglas P. Lemmon, Et ux.	Latitude: 40° 51' 13.47"N Longitude: 79° 01' 31.02"W (WELL)			2,230.65'
Joseph Young	Latitude: 40° 51' 13.17"N Longitude: 79° 01' 32.01"W (WELL)			2,152.18'
Gerald Pepper	Latitude: 40° 51' 11.17"N Longitude: 79° 01' 32.07"W (WELL)			2,140.20'
Harold Swartz	Latitude: 40° 51' 09.39"N Longitude: 79° 01' 38.86"W (WELL)			1,630.62'
David Anthony, Et Ux.	Latitude: 40° 50' 54.88"N Longitude: 79° 01' 39.70"W (WELL)			2,282.84'
John Humble, Jr.	Latitude: 40° 50' 47.66"N Longitude: 79° 01' 49.10"W (WELL)			2,542.40'
Bertha E. Anthony	Latitude: 40° 50' 58.75"N Longitude: 79° 01' 56.82"W (WELL)			1,302.36'
David P. Anthony, Et Ux.	Latitude: 40° 50' 58.17"N Longitude: 79° 01' 55.07"W (WELL)			1,389.75'
Gary Stonebraker	Latitude: 40° 50' 52.21"N Longitude: 79° 02' 08.34"W (WELL)			2,047.57'
Abe Schmucker	Latitude: 40° 50' 47.65"N Longitude: 79° 02' 15.12"W (WELL)			2,672.60'
Karen Anthony	Latitude: 40° 51' 00.27"N Longitude: 79° 02' 11.73"W (WELL)			1,447.36'
Barbara J. Means	Latitude: 40° 51' 00.90"N Longitude: 79° 02' 16.60"W (WELL)			1,665.46'
Robert Rising	Latitude: 40° 51' 07.77"N Longitude: 79° 02' 27.05"W (WELL)			2,117.00'
Edward Anthony	Latitude: 40° 51' 03.21"N Longitude: 79° 02' 16.13"W (WELL)			1,496.43'

North Mahoning Township, Indiana County (Well to be Drilled)	Non coal
West Mahoning Township, Indiana County	
South Mahoning Township, Indiana County	
East Mahoning Township, Indiana County	
Cane Township, Indiana County	
Perry Township, Jefferson County	
Young Township, Jefferson County	

WELL LOCATION PLAT

PAGE 3 Plan View of Deviated Well Bore

If well has lateral other than vertical show the bottom hole location on the plat drawing as \otimes and include the Coordinates in the provide section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line, this is to depict the proposed courses of the actual wellbore to be drilled.



WELL LOCATION PLAT

Page 4 Cross Section

