

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

RECEIVED
Office Of Oil and Gas
JUN 27 2023
WV Department of
Environmental Protection

API 47-061-01910 County MONONGALIA District BATTELLE
Quad WADESTOWN Pad Name WDTN19 Field/Pool Name _____
Farm name CNX Gas Company LLC Well Number WDTN19DHSM
Operator (as registered with the OOG) CNX GAS COMPANY LLC
Address 1000 HORIZON VUE DRIVE City CANONSBURG State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4393937.988 Easting 556988.907
Landing Point of Curve Northing 4393506.627 Easting 556668.639
Bottom Hole Northing 4389964.159 Easting 559248.678

Elevation (ft) 1,264' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
SYNTHETIC BASED FLUID

ADDITIVES: ABS MUL (EMULSIFIER), CALCIUM CHLORIDE, FLR PLUS (GILSONITE), CLAYTONE EM (SUSPENSION AGENT), AES WA II (WETTING AGENT), LIME

Date permit issued 09.06.2022 Date drilling commenced 09.10.2022 (spud) Date drilling ceased 11.05.2022
Date completion activities began 04.07.2023 Date completion activities ceased 05.03.2023
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft Shallowest: 125' Deepest: 938' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2,419', 2,509', 3,139' Void(s) encountered (Y/N) depths None Anticipated
Coal depth(s) ft 708'-711', 966'-972', 1029'-1031', 1054'-1059', 1060'-1068' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:
RDK 6/29/2023
09/15/2023

API 47-061 - 01910 Farm name CNX Gas Company LLC Well number WDTN19DHSM

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	20"	100'	NEW	94lb/ft	N/A	GROUT TO SURFACE
Surface	17.5"	13.375"	1,203'	NEW	J-55 54.5lb/ft	N/A	Y - CEMENT TO SURFACE
Coal							
Intermediate 1	12.25"	9.625"	2,987'	NEW	J-55 36lb/ft	N/A	Y - CEMENT TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75" & 8.5"	5.5"	23,182'	NEW	P-110 23lb/ft	N/A	Y - TOC @ 916'
Tubing							
Packer type and depth set							

Comment Details ALL DEPTHS ARE REFERENCED GLE = -28' KB

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	HALCEM	845	15.8	1.17	989	Surface	8
Coal							
Intermediate 1	HALCEM	990	15.8	1.15	1,138	Surface	8
Intermediate 2							
Intermediate 3							
Production	NEOCEM / NEOCEM	1,160 (LEAD) / 3,750 (TAIL)	15.0 / 15.0	1.13 (LEAD) / 1.12 (TAIL)	1,311 (LEAD) / 4,200 (TAIL)	916'	8
Tubing							

Drillers TD (ft) 23,210' Loggers TD (ft) 23,210'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7,499' (MD) 7,189' (TVD)

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

SURFACE: Centralize every other joint from shoe to surface
INTERMEDIATE: Centralize every other joint from shoe to surface
PRODUCTION: Centralize every joint from shoe to TOC

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Plug and Perf

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47-061 - 01910 Farm name CNX Gas Company LLC Well number WDTN19DHSM

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	1		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
		SEE	ATTACHMENT	2				

Please insert additional pages as applicable.

09/15/2023

API 47- 061 - 01910 Farm name CNX Gas Company LLC Well number WDTN19DHSM

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>7,963'</u>	<u>TVD</u>	<u>12,700'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,150 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 1,718 mcfpd Oil 0 bpd NGL 0 bpd Water 2,470 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		
					(SEE ATTACHED FORMATION LOG)

Please insert additional pages as applicable.

Drilling Contractor PATTERSON-UTI DRILLING COMPANY
Address 100 GALAWAY DRIVE City EIGHTY FOUR State PA Zip 15330

Logging Company SCHLUMBERGER
Address 3600 BRIARPARK DRIVE City HOUSTON State TX Zip 77042

Cementing Company HALLIBURTON
Address 1000 NOBLE ENERGY DRIVE, SUITE 400 City CANONSBURG State PA Zip 15317

Stimulating Company EVOLUTION WELL SERVICES
Address 1780 HUGHES LANDING BLVD., SUITE 125 City THE WOODLANDS State TX Zip 77380

Please insert additional pages as applicable.

Completed by Jarrett Jones Telephone 304-276-3970
Signature *Jarrett Jones* Title Superintendent Completions Date 06-23-2023

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

09/15/2023

ATTACHMENT 1: WDTN19DHSM 47-061-01910

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19DHSM	1	4/7/2023	23,059.06	23,156.00	24	Marcellus Shale
WDTN19DHSM	2	4/7/2023	22,878.06	23,000.00	32	Marcellus Shale
WDTN19DHSM	3	4/8/2023	22,718.06	22,840.00	32	Marcellus Shale
WDTN19DHSM	4	4/8/2023	22,558.06	22,680.00	32	Marcellus Shale
WDTN19DHSM	5	4/8/2023	22,398.06	22,520.00	32	Marcellus Shale
WDTN19DHSM	6	4/9/2023	22,238.06	22,360.00	32	Marcellus Shale
WDTN19DHSM	7	4/9/2023	22,078.06	22,200.00	32	Marcellus Shale
WDTN19DHSM	8	4/9/2023	21,918.06	22,040.00	32	Marcellus Shale
WDTN19DHSM	9	4/9/2023	21,758.06	21,880.00	32	Marcellus Shale
WDTN19DHSM	10	4/9/2023	21,598.06	21,720.00	32	Marcellus Shale
WDTN19DHSM	11	4/10/2023	21,438.06	21,560.00	32	Marcellus Shale
WDTN19DHSM	12	4/10/2023	21,278.06	21,400.00	32	Marcellus Shale
WDTN19DHSM	13	4/10/2023	21,118.06	21,240.00	32	Marcellus Shale
WDTN19DHSM	14	4/10/2023	20,958.06	21,080.00	32	Marcellus Shale
WDTN19DHSM	15	4/11/2023	20,798.06	20,920.00	32	Marcellus Shale
WDTN19DHSM	16	4/11/2023	20,638.06	20,760.00	32	Marcellus Shale
WDTN19DHSM	17	4/11/2023	20,478.06	20,600.00	32	Marcellus Shale
WDTN19DHSM	18	4/11/2023	20,318.06	20,440.00	32	Marcellus Shale
WDTN19DHSM	19	4/11/2023	20,158.06	20,280.00	32	Marcellus Shale
WDTN19DHSM	20	4/12/2023	19,998.06	20,120.00	32	Marcellus Shale
WDTN19DHSM	21	4/12/2023	19,798.06	19,960.00	40	Marcellus Shale
WDTN19DHSM	22	4/12/2023	19,598.06	19,760.00	40	Marcellus Shale
WDTN19DHSM	23	4/12/2023	19,398.06	19,560.00	40	Marcellus Shale
WDTN19DHSM	24	4/13/2023	19,198.06	19,360.00	40	Marcellus Shale
WDTN19DHSM	25	4/13/2023	18,998.06	19,160.00	40	Marcellus Shale
WDTN19DHSM	26	4/15/2023	18,798.06	18,960.00	40	Marcellus Shale
WDTN19DHSM	27	4/16/2023	18,598.06	18,760.00	40	Marcellus Shale
WDTN19DHSM	28	4/16/2023	18,398.06	18,560.00	40	Marcellus Shale
WDTN19DHSM	29	4/16/2023	18,198.06	18,360.00	40	Marcellus Shale
WDTN19DHSM	30	4/17/2023	17,998.06	18,160.00	40	Marcellus Shale
WDTN19DHSM	31	4/17/2023	17,798.06	17,960.00	40	Marcellus Shale
WDTN19DHSM	32	4/17/2023	17,598.06	17,760.00	40	Marcellus Shale
WDTN19DHSM	33	4/18/2023	17,398.06	17,560.00	40	Marcellus Shale
WDTN19DHSM	34	4/18/2023	17,198.06	17,360.00	40	Marcellus Shale
WDTN19DHSM	35	4/19/2023	16,998.06	17,160.00	40	Marcellus Shale
WDTN19DHSM	36	4/19/2023	16,798.06	16,960.00	40	Marcellus Shale
WDTN19DHSM	37	4/20/2023	16,598.06	16,760.00	40	Marcellus Shale
WDTN19DHSM	38	4/21/2023	16,398.06	16,560.00	40	Marcellus Shale
WDTN19DHSM	39	4/21/2023	16,198.06	16,360.00	40	Marcellus Shale
WDTN19DHSM	40	4/21/2023	15,998.06	16,160.00	40	Marcellus Shale
WDTN19DHSM	41	4/21/2023	15,798.06	15,960.00	40	Marcellus Shale
WDTN19DHSM	42	4/22/2023	15,598.06	15,760.00	40	Marcellus Shale
WDTN19DHSM	43	4/22/2023	15,398.06	15,560.00	40	Marcellus Shale
WDTN19DHSM	44	4/22/2023	15,198.06	15,360.00	40	Marcellus Shale
WDTN19DHSM	45	4/22/2023	14,998.06	15,160.00	40	Marcellus Shale
WDTN19DHSM	46	4/23/2023	14,798.06	14,960.00	40	Marcellus Shale

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ATTACHMENT 1: WDTN19DHSM 47-061-01910

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19DHSM	47	4/23/2023	14,598.06	14,760.00	40	Marcellus Shale
WDTN19DHSM	48	4/24/2023	14,398.06	14,560.00	40	Marcellus Shale
WDTN19DHSM	49	4/25/2023	14,198.06	14,360.00	40	Marcellus Shale
WDTN19DHSM	50	4/25/2023	13,998.06	14,160.00	40	Marcellus Shale
WDTN19DHSM	51	4/25/2023	13,798.06	13,960.00	40	Marcellus Shale
WDTN19DHSM	52	4/26/2023	13,598.06	13,760.00	40	Marcellus Shale
WDTN19DHSM	53	4/26/2023	13,398.06	13,560.00	40	Marcellus Shale
WDTN19DHSM	54	4/26/2023	13,198.06	13,360.00	40	Marcellus Shale
WDTN19DHSM	55	4/26/2023	12,998.06	13,160.00	40	Marcellus Shale
WDTN19DHSM	56	4/27/2023	12,798.06	12,960.00	40	Marcellus Shale
WDTN19DHSM	57	4/27/2023	12,598.06	12,760.00	40	Marcellus Shale
WDTN19DHSM	58	4/27/2023	12,398.06	12,560.00	40	Marcellus Shale
WDTN19DHSM	59	4/27/2023	12,198.06	12,360.00	40	Marcellus Shale
WDTN19DHSM	60	4/28/2023	11,998.06	12,160.00	40	Marcellus Shale
WDTN19DHSM	61	4/28/2023	11,798.06	11,960.00	40	Marcellus Shale
WDTN19DHSM	62	4/28/2023	11,598.06	11,760.00	40	Marcellus Shale
WDTN19DHSM	63	4/29/2023	11,398.06	11,560.00	40	Marcellus Shale
WDTN19DHSM	64	4/29/2023	11,198.06	11,360.00	40	Marcellus Shale
WDTN19DHSM	65	4/29/2023	10,998.06	11,160.00	40	Marcellus Shale
WDTN19DHSM	66	4/30/2023	10,798.06	10,960.00	40	Marcellus Shale
WDTN19DHSM	67	4/30/2023	10,598.06	10,760.00	40	Marcellus Shale
WDTN19DHSM	68	4/30/2023	10,398.06	10,560.00	40	Marcellus Shale
WDTN19DHSM	69	4/30/2023	10,198.06	10,360.00	40	Marcellus Shale
WDTN19DHSM	70	5/1/2023	9,998.06	10,160.00	40	Marcellus Shale
WDTN19DHSM	71	5/1/2023	9,798.06	9,960.10	40	Marcellus Shale
WDTN19DHSM	72	5/1/2023	9,598.06	9,760.10	40	Marcellus Shale
WDTN19DHSM	73	5/1/2023	9,398.06	9,560.10	40	Marcellus Shale
WDTN19DHSM	74	5/2/2023	9,198.06	9,360.10	40	Marcellus Shale
WDTN19DHSM	75	5/2/2023	8,998.06	9,160.10	40	Marcellus Shale
WDTN19DHSM	76	5/2/2023	8,797.16	8,960.00	40	Marcellus Shale
WDTN19DHSM	77	5/3/2023	8,596.16	8,759.00	40	Marcellus Shale

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ATTACHMENT 2: WDTN19DHSM 47-061-01910

Well Name	Stage #	Start Date	Slurry Rate Avg (bbl/min)	Treat Pressure Avg (psi)	Breakdown Pressure (psi)	Instantaneous Shut-In Pressure (psi)	Proppant Total (lb)	Volume Clean Total (bbl)
WDTN19DHSM	1	4/7/2023	88	10,757.00	9,828.00	5,147.00	382,919.10	7,781.02
WDTN19DHSM	2	4/7/2023	89	11,095.00	8,299.00	6,109.00	379,270.20	7,322.98
WDTN19DHSM	3	4/8/2023	84	10,944.00	6,771.00	5,751.00	387,302.90	7,441.00
WDTN19DHSM	4	4/8/2023	89	11,076.00	6,968.00	5,899.00	394,284.60	7,248.52
WDTN19DHSM	5	4/8/2023	88	11,018.00	8,711.00	6,472.00	374,686.10	6,910.00
WDTN19DHSM	6	4/9/2023	89	11,049.00	8,662.00	6,135.00	389,334.10	7,223.05
WDTN19DHSM	7	4/9/2023	90	11,170.00	8,754.00	6,776.00	389,682.80	6,941.98
WDTN19DHSM	8	4/9/2023	89	11,181.00	8,583.00	6,526.00	393,721.90	6,871.98
WDTN19DHSM	9	4/9/2023	87	11,051.00	8,559.00	6,251.00	386,590.10	6,995.00
WDTN19DHSM	10	4/10/2023	90	11,005.00	8,003.00	6,441.00	377,009.00	6,823.95
WDTN19DHSM	11	4/10/2023	91	11,212.00	7,592.00	5,798.00	393,080.90	6,829.00
WDTN19DHSM	12	4/10/2023	90	11,138.00	8,268.00	6,107.00	386,249.60	6,726.05
WDTN19DHSM	13	4/10/2023	91	11,112.00	8,042.00	5,915.00	375,049.30	6,773.98
WDTN19DHSM	14	4/10/2023	89	11,004.00	8,525.00	5,818.00	369,384.90	6,750.05
WDTN19DHSM	15	4/11/2023	89	11,083.00	9,060.00	5,769.00	376,981.30	6,764.93
WDTN19DHSM	16	4/11/2023	89	11,248.00	8,985.00	5,868.00	395,031.00	6,945.02
WDTN19DHSM	17	4/11/2023	87	10,784.00	8,222.00	6,216.00	380,048.40	6,837.00
WDTN19DHSM	18	4/11/2023	87	11,108.00	8,810.00	6,396.00	362,538.50	6,659.98
WDTN19DHSM	19	4/11/2023	92	11,085.00	8,026.00	5,994.00	382,205.30	6,733.00
WDTN19DHSM	20	4/12/2023	90	10,994.00	8,713.00	6,357.00	370,800.20	6,685.98
WDTN19DHSM	21	4/12/2023	97	11,173.00	7,796.00	6,615.00	492,416.60	8,520.05
WDTN19DHSM	22	4/12/2023	93	11,124.00	8,350.00	5,848.00	475,454.00	8,264.02
WDTN19DHSM	23	4/12/2023	94	10,997.00	8,127.00	6,274.00	474,754.00	7,758.00
WDTN19DHSM	24	4/13/2023	94	10,994.00	7,683.00	5,697.00	485,674.40	7,829.02
WDTN19DHSM	25	4/15/2023	93	10,976.00	8,622.00	6,415.00	484,795.00	7,848.95
WDTN19DHSM	26	4/16/2023	96	10,909.00	7,561.00	6,044.00	485,345.70	7,668.07
WDTN19DHSM	27	4/16/2023	96	11,001.00	7,894.00	6,212.00	482,004.00	7,736.05
WDTN19DHSM	28	4/16/2023	96	11,062.00	8,042.00	5,731.00	471,709.50	7,600.05
WDTN19DHSM	29	4/17/2023	97	10,886.00	8,077.00	5,716.00	467,011.90	7,588.02
WDTN19DHSM	30	4/17/2023	94	10,725.00	8,281.00	6,260.00	489,708.10	8,743.02
WDTN19DHSM	31	4/17/2023	93	10,595.00	8,262.00	5,839.00	474,312.40	7,708.95
WDTN19DHSM	32	4/18/2023	96	10,964.00	8,890.00	6,007.00	476,502.00	7,649.00
WDTN19DHSM	33	4/18/2023	91	10,646.00	8,837.00	6,268.00	474,997.70	7,611.05
WDTN19DHSM	34	4/19/2023	96	11,084.00	8,786.00	4,595.00	482,938.80	7,911.95
WDTN19DHSM	35	4/19/2023	97	10,800.00	8,806.00	6,174.00	482,799.00	7,676.98
WDTN19DHSM	36	4/20/2023	93	11,232.00	8,045.00	4,996.00	481,503.20	8,018.02
WDTN19DHSM	37	4/21/2023	96	11,032.00	8,286.00	5,158.00	485,785.30	7,680.02
WDTN19DHSM	38	4/21/2023	97	11,149.00	7,912.00	6,419.00	474,466.70	7,614.05
WDTN19DHSM	39	4/21/2023	96	10,960.00	7,664.00	5,672.00	498,036.60	7,695.98
WDTN19DHSM	40	4/21/2023	99	11,022.00	7,991.00	5,283.00	490,985.80	7,696.98
WDTN19DHSM	41	4/22/2023	99	10,765.00	7,449.00	5,770.00	477,053.70	7,577.98
WDTN19DHSM	42	4/22/2023	98	10,972.00	6,973.00	6,092.00	479,253.30	7,630.02
WDTN19DHSM	43	4/22/2023	99	10,949.00	7,392.00	5,324.00	485,797.90	7,589.93
WDTN19DHSM	44	4/22/2023	99	10,919.00	7,162.00	6,189.00	489,691.00	7,603.02

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ATTACHMENT 2: WDTN19DHSM 47-061-01910

Well Name	Stage #	Start Date	Slurry Rate Avg (bbl/min)	Treat Pressure Avg (psi)	Breakdown Pressure (psi)	Instantaneous Shut-In Pressure (psi)	Proppant Total (lb)	Volume Clean Total (bbl)
WDTN19DHSM	45	4/23/2023	100	10,930.00	7,356.00	6,259.00	482,030.40	7,634.00
WDTN19DHSM	46	4/23/2023	98	11,152.00	7,272.00	6,173.00	446,968.20	7,299.02
WDTN19DHSM	47	4/24/2023	101	10,302.00	7,231.00	6,021.00	488,686.80	7,584.02
WDTN19DHSM	48	4/24/2023	100	10,640.00	7,822.00	5,942.00	470,576.80	7,526.02
WDTN19DHSM	49	4/25/2023	100	10,677.00	8,097.00	6,259.00	479,716.40	7,559.95
WDTN19DHSM	50	4/25/2023	99	10,761.00	7,109.00	5,898.00	489,038.70	7,595.00
WDTN19DHSM	51	4/26/2023	99	10,887.00	8,054.00	6,524.00	474,041.00	7,467.98
WDTN19DHSM	52	4/26/2023	100	10,641.00	7,748.00	5,922.00	493,737.80	7,615.93
WDTN19DHSM	53	4/26/2023	100	10,789.00	7,331.00	5,958.00	484,438.40	7,421.95
WDTN19DHSM	54	4/26/2023	101	10,693.00	7,088.00	5,342.00	482,202.30	7,503.02
WDTN19DHSM	55	4/27/2023	100	10,789.00	6,941.00	6,106.00	449,752.10	7,258.12
WDTN19DHSM	56	4/27/2023	99	10,798.00	7,316.00	6,326.00	462,167.50	7,269.98
WDTN19DHSM	57	4/27/2023	100	10,881.00	7,541.00	6,273.00	473,141.40	7,344.93
WDTN19DHSM	58	4/27/2023	101	10,948.00	7,143.00	6,533.00	470,171.80	7,335.00
WDTN19DHSM	59	4/28/2023	100	10,443.00	7,494.00	5,345.00	504,462.30	7,566.05
WDTN19DHSM	60	4/28/2023	100	10,795.00	7,821.00	6,272.00	478,603.50	7,385.00
WDTN19DHSM	61	4/28/2023	101	10,588.00	6,981.00	6,444.00	490,687.10	7,461.02
WDTN19DHSM	62	4/29/2023	101	10,138.00	6,773.00	5,360.00	485,065.00	7,156.05
WDTN19DHSM	63	4/29/2023	101	10,088.00	7,067.00	5,348.00	490,166.00	7,157.07
WDTN19DHSM	64	4/29/2023	101	10,341.00	7,293.00	6,008.00	472,383.60	7,052.02
WDTN19DHSM	65	4/29/2023	101	10,154.00	7,056.00	5,189.00	481,468.40	7,082.98
WDTN19DHSM	66	4/30/2023	102	9,876.00	7,329.00	5,405.00	494,627.70	7,211.02
WDTN19DHSM	67	4/30/2023	102	9,978.00	7,688.00	6,279.00	489,208.70	7,062.05
WDTN19DHSM	68	4/30/2023	101	9,786.00	7,296.00	5,385.00	475,700.30	7,772.00
WDTN19DHSM	69	4/30/2023	101	10,056.00	8,046.00	6,096.00	385,148.30	6,562.98
WDTN19DHSM	70	5/1/2023	102	9,757.00	7,056.00	6,514.00	487,400.00	7,085.00
WDTN19DHSM	71	5/1/2023	102	9,795.00	7,467.00	6,322.00	497,168.40	7,176.05
WDTN19DHSM	72	5/1/2023	102	9,966.00	7,229.00	5,197.00	477,338.50	7,043.00
WDTN19DHSM	73	5/2/2023	102	9,829.00	7,247.00	6,461.00	395,728.50	6,377.00
WDTN19DHSM	74	5/2/2023	102	9,587.00	6,906.00	5,596.00	489,955.60	7,070.02
WDTN19DHSM	75	5/2/2023	102	9,289.00	7,182.00	5,874.00	477,887.80	7,032.07
WDTN19DHSM	76	5/2/2023	102	9,223.00	7,656.00	5,118.00	476,525.30	6,888.98
WDTN19DHSM	77	5/3/2023	102	9,141.00	7,354.00	5,181.00	476,324.30	6,946.98

All depths are referenced to GLE

LITHOLOGIES

LITHOLOGY / FORMATION NAME	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
Sand/Siltstone	0	513	0	513	SANDSTONE / TRACES OF SILTSTONE & LIMESTONE & COAL
Washington Coal Seam	513	515	513	515	COAL
Sand/Siltstone	515	603	515	603	SANDSTONE / TRACES OF GRAY SHALE, COAL, QUARTZ & SILTSTONE
Waynesburg A Coal Seam	603	604	603	604	COAL
Sand/Siltstone	604	677	604	677	SANDSTONE & SHALE
Waynesburg B2 Coal Seam	677	679	677	679	COAL
Sand/Siltstone	679	679	679	679	SANDSTONE / TRACES OF SILTSTONE & PYRITE
Waynesburg B1 Coal Seam	679	683	679	683	COAL
Sand/Siltstone	683	938	683	938	SANDSTONE AND SILTSTONE
Sewickley Coal Seam	938	943	938	943	COAL
Sand/Siltstone	943	1,000	943	1,000	SANDSTONE
Roof Coal	1,000	1,002	1,000	1,002	COAL
Sand/Siltstone	1,002	1,025	1,002	1,025	GRAY SHALE
Roof Coal Zone	1,025	1,030	1,025	1,030	COAL
Sand/Siltstone	1,030	1,031	1,030	1,031	GRAY SHALE / TRACES OF SILTSTONE
Pittsburgh Coal Seam	1,031	1,038	1,031	1,038	COAL
Sand/Siltstone	1,038	1,401	1,038	1,401	BLACK SHALE, GAS SHOW
Bakers Town	1,401	1,402	1,401	1,402	GRAY SHALE
Sand/Siltstone	1,402	1,506	1,402	1,506	GRAY SHALE & LIMESTONE
Brush Creek	1,506	1,507	1,506	1,507	BLACK SHALE
Sand/Siltstone	1,507	1,565	1,507	1,565	BLACK SHALE, GAS SHOW
Mahoning	1,565	1,566	1,565	1,566	COAL
Sand/Siltstone	1,566	1,616	1,566	1,616	GRAY SHALE / TRACES OF SILTSTONE
Upper Freeport	1,616	1,616	1,616	1,616	COAL
Gas Sand	1,616	1,656	1,616	1,656	SANDSTONE
Lower Freeport	1,656	1,658	1,656	1,658	COAL
1st Salt Sand	1,658	1,780	1,658	1,780	SANDSTONE
Middle Kittanning Coal Seam	1,780	1,781	1,780	1,781	COAL
Sand/Siltstone	1,781	1,867	1,781	1,867	GRAY SHALE / TRACES OF SILTSTONE
2nd Salt Sand	1,867	2,017	1,867	2,018	SANDSTONE
3rd Salt Sand	2,017	2,263	2,018	2,264	SANDSTONE
Big Lime	2,263	2,336	2,264	2,336	LIMESTONE
Big Injun Top	2,336	2,550	2,336	2,550	SANDSTONE
Big Injun Base	2,550	2,991	2,550	2,992	SILTSTONE
Gantz	2,991	3,019	2,992	3,019	SANDSTONE / SILTSTONE

API:47-061-01910

CNX RESOURCES LLC

WELL NAME: WDTN19DHSM

All depths are referenced to GLE

LITHOLOGIES

LITHOLOGY / FORMATION NAME	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
Gant Base	3,019	3,116	3,019	3,116	SILTSTONE
50 Foot Sand	3,116	3,166	3,116	3,167	SANDSTONE / SILTSTONE
50 Foot Sand Base	3,166	3,203	3,167	3,203	SILTSTONE
30 Foot Sand	3,203	3,233	3,203	3,233	SANDSTONE
30 Foot Sand Base	3,233	3,269	3,233	3,269	SILTSTONE
Gordon Sand	3,269	3,339	3,269	3,339	SANDSTONE
Gordon Base	3,339	3,391	3,339	3,391	SILTSTONE
Fourth Sand	3,391	3,408	3,391	3,408	SANDSTONE
Fourth Sand Base	3,408	3,570	3,408	3,570	SILTSTONE
Fifth Sand	3,570	3,652	3,570	3,653	SANDSTONE
Fifth Sand Base	3,652	4,927	3,653	4,948	SILTSTONE
Bradford	4,927	5,605	4,948	5,680	SANDSTONE
Elk	5,605	5,851	5,680	5,964	SILTSTONE / GREY SHALE
2nd Elk	5,851	7,008	5,964	7,292	SILTSTONE / GREY SHALE
Rhinestreet	7,008	7,150	7,292	7,455	GREY SHALE
Cashaqua	7,150	7,373	7,455	7,710	GREY SHALE
Middlesex	7,373	7,452	7,710	7,804	GREY SHALE
West River	7,452	7,634	7,804	8,048	GREY SHALE
Burket Shale	7,634	7,663	8,048	8,092	GREY SHALE
Tully Limestone	7,663	7,701	8,092	8,154	LIMESTONE / GRAY SHALE
Hamilton Shale	7,701	7,819	8,154	8,431	GREY SHALE
Upper Marcellus	7,819	7,853	8,431	8,595	BLACK SHALE
Middle Marcellus	7,853	7,856	8,595	8,618	BLACK SHALE
Cherry Valley	7,856	7,858	8,618	8,634	LIMESTONE
Lower Middle Marcellus	7,858		8,634		BLACK SHALE
Onondaga Limestone					LIMESTONE

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/7/2023
Job End Date:	5/3/2023
State:	West Virginia
County:	Monongalia
API Number:	47-061-01910-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	WDTN19DHSM
Latitude:	39.69338500
Longitude:	-80.33533700
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,963
Total Base Water Volume (gal):	23,441,208
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	CNX	Carrier/Base Fluid	Water	7732-18-5	100.00000	84.87133	None
Sand	US Silica	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	14.88178	None
StimSTREAM 9800	CHEMSTREAM	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.02123	None
			Butene, homopolymer	9003-29-6	25.00000	0.02123	None
			Ethoxylated alcohols	68213-23-0	3.00000	0.00255	None
HCL Acid (28%)	CHEMSTREAM	Acidizing	Hydrochloric Acid	7647-01-0	28.00000	0.03223	None
Clearal 268	CHEMSTREAM	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00222	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00033	None
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00033	None
StimStream SC 398	CHEMSTREAM	Scale Inhibitor					

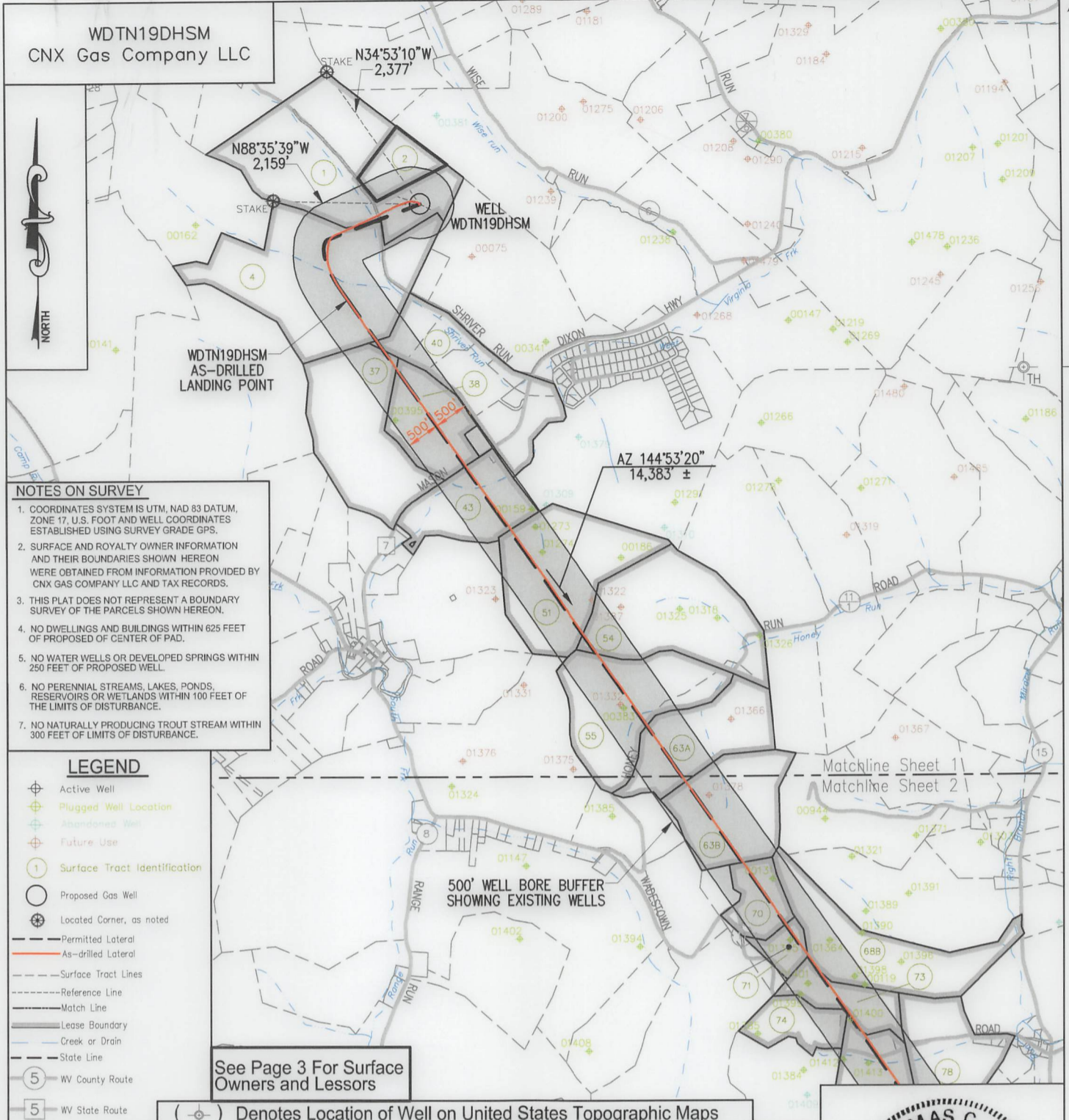
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00195	None
ACI-250	CHEMSTREAM	Acid corrosion inhibitor					
			Methanol	67-56-1	45.00000	0.00026	None
			Ethylene glycol	107-21-1	20.00000	0.00012	None
			Trade Secret	72480-70-7	15.00000	0.00009	None
			N,N-Dimethylformamide	68-12-2	10.00000	0.00006	None
			2-Butoxyethanol	111-76-2	5.00000	0.00003	None
Citric Acid 50%	CHEMSTREAM	Iron Control Agent					
			citric acid	77-92-9	50.50000	0.00040	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Butene, homopolymer	9003-29-6	25.00000	0.02123	
			Ethoxylated alcohols	68213-23-0	3.00000	0.00255	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00033	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00033	
			Ethylene glycol	107-21-1	20.00000	0.00012	
			Trade Secret	72480-70-7	15.00000	0.00009	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00006	
			2-Butoxyethanol	111-76-2	5.00000	0.00003	
			Trade Secret	1338-43-8	3.00000		
			Trade Secret	14808-60-7	3.00000		
			Guar Gum	9000-30-0	50.00000		
			Trade Secret	9043-30-5	5.00000		

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE OBTAINED FROM INFORMATION PROVIDED BY CNX GAS COMPANY LLC AND TAX RECORDS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

- LEGEND**
- Active Well
 - Plugged Well Location
 - Abandoned Well
 - Future Use
 - Surface Tract Identification
 - Proposed Gas Well
 - Located Corner, as noted
 - Permitted Lateral
 - As-drilled Lateral
 - Surface Tract Lines
 - Reference Line
 - Match Line
 - Lease Boundary
 - Creek or Drain
 - State Line
 - WV County Route
 - WV State Route

See Page 3 For Surface Owners and Lessors

() Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smit
L. L. S. 687



FILE NO: _____
DRAWING NO: _____
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

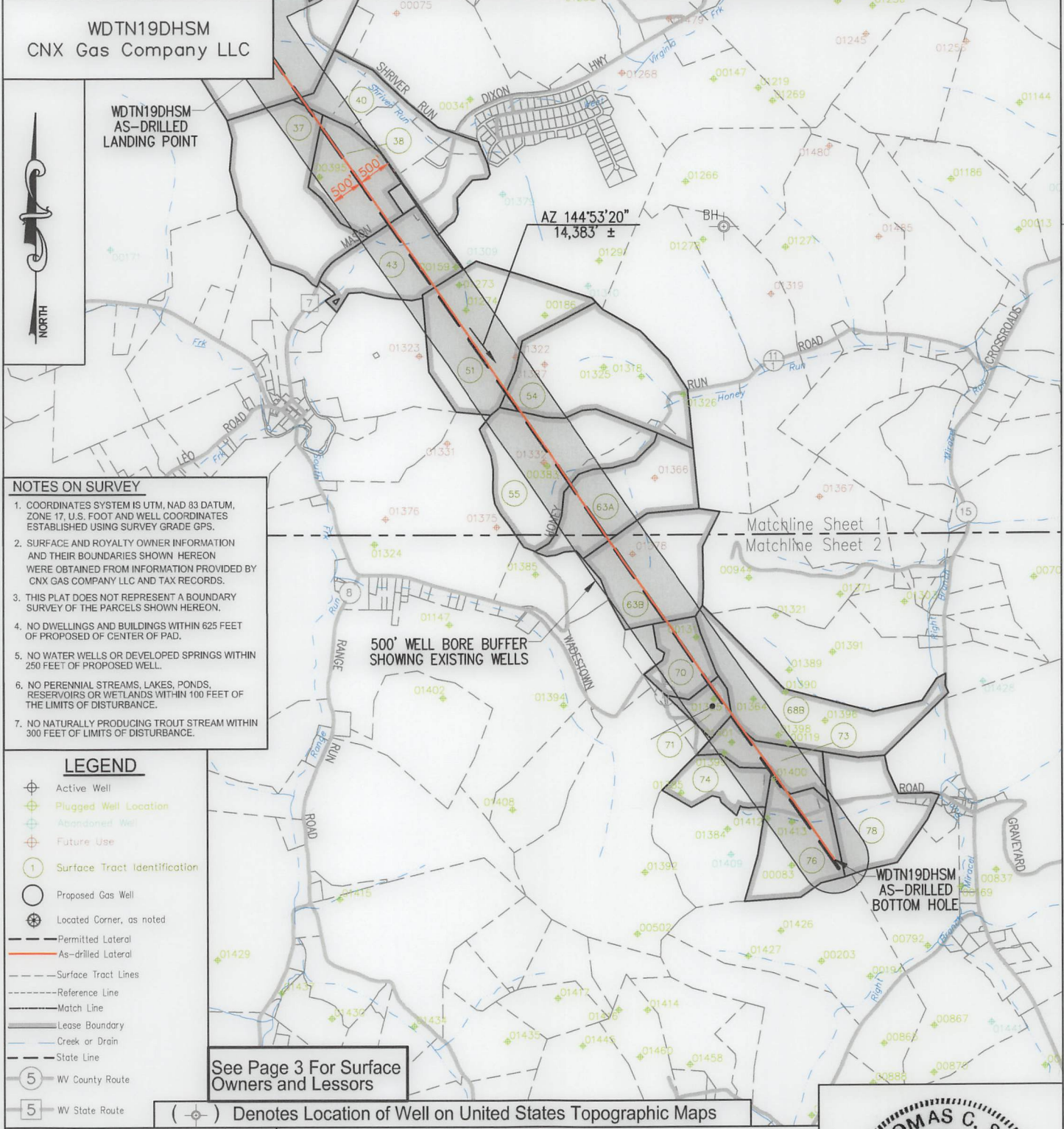


DATE: JUNE 08 20 23
OPERATORS WELL NO: _____
API WELL NO
47 - 061 - 01910
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 1264.30' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown
DISTRICT: Batelle COUNTY: Monongalia
SURFACE OWNER: CNX Gas Company LLC ACREAGE: 96.91 ±
ROYALTY OWNER: Three Rivers Royalty II, LLC, et al LEASE NO: 205228000 ACREAGE: 96.91 ±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 7,913'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 1000 Horizon Vue Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

AS-DRILLED



LONGITUDE 80° 17' 30" BH: 3365'

- NOTES ON SURVEY**
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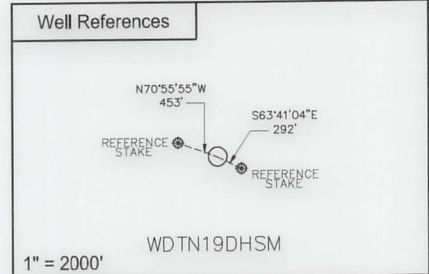
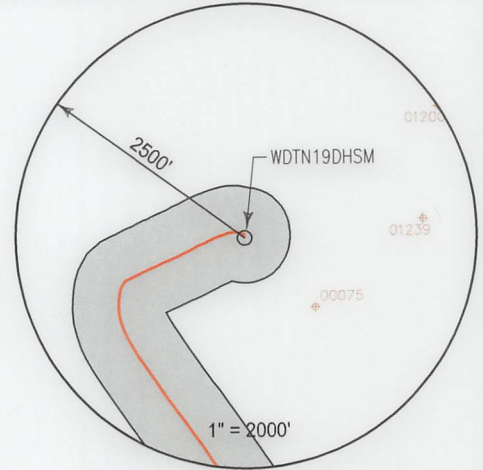
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WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 1000 Horizon Vue Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

AS-DRILLED

TRACT ID	SURFACE OWNER	LESSOR	PIN
1	CNX Gas Company LLC	Hugh Kirkland	1-8-9
		Jack T. Livengood and Mary Jo Livengood	
		Barbara Haning	
		Diane H. Gondlaves, individually and co-executor of the Edward Lee North Estate	
		Patrick Lee North	
		Melissa Kubishke	
		Catherine C. Kirkland	
		Louise H. Berg, as Trustee of the The Louise H. Berg Revocable Trust	
		Sherry Lemons	
		Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust	
		Pamela Jayne Brewer, as Trustee of the Pamela Jayne Brewer Revocable Trust	
		Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust dated 9/2/1998	
		Catherine Haning Coleman, f/k/a Catherine G. Haning	
		Zachary C. Haning	
		Mary Hennen	
		A. E. Hennen, III	
		Morgan Haning	
		Sarah C. Sheridan	
		Kathleen Farmer	
		Anne W. Haning	
		David Michael Hennen	
		John K. Hennen	
		Robert Douglas Hennen	
		Elizabeth L. March	
		Three Rivers Royalty, II, LLC	
		Debora Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning, w/h	
		Kathryn Rew Becker and Michael Compton, w/h	
		BOKF, N.A. as Sole Trustee of the Alma Kirkland Revocable Trust	
		Gail T. Bellucci	
		Northeast Natural Energy LLC	
2	CNX Gas Company LLC	Three Rivers Royalty, II, LLC	1-8-9
		Jack T. Livengood and Mary Jo Livengood	
		Elizabeth L. March	
		Debora Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning	
		Kathryn Rew Becker and Michael Compton	



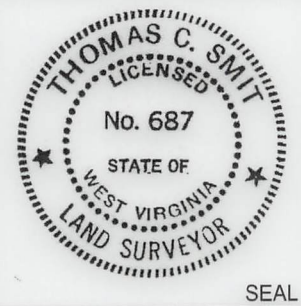
SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393937.988	
E: 556988.907	
NAD 83, WV NORTH	
N: 435759.154	
E: 1733444.202	
LAT/LON DATUM NAD 83	
LAT: 39°41'36.186"	
LO: 80°20'07.201"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393506.627	
E: 556668.639	
NAD 83, WV NORTH	
N: 434361.261	
E: 1732369.635	
LAT/LON DATUM NAD 83	
LAT: 39°41'22.272"	
LO: 80°20'20.781"	

WDTN19 WELL PAD	
<input type="radio"/> WDN19EHSM	
<input type="radio"/> WDN19DHSM	<input type="radio"/> WDN19BHSM
<input type="radio"/> WDN19CHSM	<input type="radio"/> WDN19FHSM
<input type="radio"/> WDN19AHSM	<input type="radio"/> WDN19RHSM
BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83	
N: 4389964.159	
E: 559248.678	
NAD 83, WV NORTH	
N: 422595.717	
E: 1740641.477	
LAT/LON DATUM NAD 83	
LAT: 39°39'26.742"	
LO: 80°18'33.610"	



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smith
L. L. S. 687



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Canonsburg, PA 15317 Canonsburg, PA 15317

AS-DRILLED

TRACT ID	SURFACE OWNER	LESSOR	PIN
4	David Troy Beckner, et al	Mary Jane Beckner, Life Estate, widow and Troy David Beckner and Janet Lee Smith, Remaindermen, JTROS Antero Resources Corporation	1-8-10
37	Douglas S. Sanders, et ux	Thomas Sollars and Martha A. Sollars, husband and wife Clark Donley Stiles, a single man AMP IV, LP Douglas S. Sanders and Kimberly J. Sanders, husband and wife	1-13-1
38	David K. Sago, et ux	David K. Sago and Ramona J. Sago, husband and wife Thomas Sollars and Martha A. Sollars, husband and wife Clark Donley Stiles, a single man AMP IV, LP	1-13-22
40	David K. Tennant, et ux, et al	James B. Reeder, in his capacity as the incumbent and currently acting Trustee of the Jim Bob Revocable Trust Carolyn R. Greiner, in her capacity as agent and attorney-in-fact for and on behalf of William F. Reeder Stephen B. Ferguson, in his capacity as the incumbent and currently acting Trustee of the Margaret R. Ferguson Revocable Trust Carolyn R. Greiner, in her capacity as the incumbent and currently acting trustee of the Carolyn R. Greiner Trust of 1999 Louise Reeder Seeton, in her capacity as the incumbent and currently acting trustee of the Louise Reeder Seeton Trust, a Revocable inter vivos trust created 8/13/1993 Thomas Bradley Reeder, in his capacity as the incumbent and currently acting trustee of the Reeder Living Trust of 2008 Carolyn R. Greiner, in her capacity as agent and attorney-in-fact for and on behalf of Susan Reeder Ruffatto, aka, Susan Reeder Ruffatto	1-13-23 1-13-23.1 THROUGH 1-13-23.8
43	Thomas W. Sanders	Thomas W. Sanders, a single man Thomas Sollars and Martha A. Sollars, husband and wife Clark Donley Stiles, a single man AMP IV, LP	1-13-21 1-13-21.1
51	Thomas W. Sanders	Ronald W. Wade Northeast Natural Energy LLC	1-13-26
54	Jacqueline Carol Cowell	Ginger L. Brookover Douglas Haught Keith Haught Michael Haught Jacqueline Carol Cowell, widow	1-13-27
55	Jacqueline Carol Cowell	Ginger L. Brookover Douglas Haught Keith Haught Michael Haught Jacqueline Carol Cowell, widow	1-13-27
63A	Richard A. Bartolomew, et al	William G. and Betty J. Cross, his wife CNG Producing Company Dominion Exploration and Production, Inc. Antero Resources Appalachian Corporation Dominion Exploration and Production, Inc. Consol Gas Company CNX Gas Company LLC Noble Energy, Inc.	1-13-28
63B	Richard A. Bartolomew, et al	William G. and Betty J. Cross, his wife CNG Producing Company Dominion Exploration and Production, Inc. Antero Resources Appalachian Corporation Dominion Exploration and Production, Inc. Consol Gas Company CNX Gas Company LLC Noble Energy, Inc.	1-13-28 1-13-29

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API WELL NO

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STATE COUNTY PERMIT



TRACT ID	SURFACE OWNER	LESSOR	PIN
68B	Opal Howard	Bounty Minerals, LLC	1-18-8
		Lola Drilling I, LLC	
		Rice Drilling B LLC	
		Raymond P. Gaston, aka Ray Gaston, aka Ray Parish Gaston, and Pamela J. Gaston	
		P&P Fujimo LLC	
		R. Parrish Gaston	
		Paul R. Gaston	
		EQT Production Company	
		Janet Watkins	
		Rose Marie Shape	
		Ruth Ann Tallman	
		Juanita Ely	
		Benjamin C. Wirick	
		Vivian Petoskey	
		Morris Mountaineer Oil and Gas LLC	
		Sidney Austin Smith Trust LLC	
		Thomas E. Ross	
		Richard M. Ross	
		Debra L. Mason and Richard A. Mason	
		Carol Curtis	
		Dwight E. Jackson	
		Judy Wirick	
		Dwight Herd	
		Michael Delbert Herd	
		Christine Ann Boyd	
		Charles Patrick Herd and Leane C. Herd	
		Bruce A. Davie, Jr.	
		Polly Anna Eddy Morrison Fryman	
		Robert W. Davie and Lisa D. Davie	
		Jerry L. Hoffman	
		Cheryl J. Bosse	
		Rodney A. Bosse	
		Clarence S. Willard	
		JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	
		Gary A. Spragg	
		Richard A. Stewart	
		Joyce Lydic	
		Thomas L. Hoffman	
		Kyle J. Davie	
		Summer G. Johnson	
		Jessica L. Baum a/k/a Jessica L. Gerwells	
		James Eric Davie	
		Susan Kimbrell	
		Daniel Bailes	
		Joel Bailes	
		Randall M. Spragg and Lisa M. Spragg, Co-Trustees under Revocable Trust Agreement of Randall M. Spragg, dated October 24, 2007	
		Toledo Animal Shelter	
		WV Minerals, Inc.	
		Sharon M. Flann	
		Stephen J. Dawson	
		Martha E. Menzies and William S. Menzies	
		Andrew T. Stewart and Cathy Stewart	
		Betty Pitcock	
		Kelly J. Kelly and Dennis Kelly	
		Charlene K. Crapnell and Larry E. Crapnell	
		Darlene Newson and Michael Newson	
		Ricky Kaye Peaslee	
		Opal Howard	
		Maxine Wirick	
		Staci L. Dawson	
		Wilma J. Ross	
		Amber N. Cubberly and Dustin Cubberly, her husband	
		Christina K. Benson and James B. Benson, her husband	
		James E. Eddy and Ronda S. Eddy, his wife	
		Kenneth R. Eddy and Natalie A. Eddy, his wife	
		Mary Lou Verbosky	
		Louise A. Stewart England	

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API WELL NO

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STATE COUNTY PERMIT

Michael J. Eddy and Natilie A. Eddy, h/w
 Judy Ann Heston
 Donna Fay Hibbs
 Denzil Ray Hibbs
 Janie Loise Gram
 Northeast Natural Energy LLC
 Waco Oil & Gas Co., Inc.; I.L. Morris, Mike Ross, Inc.; Mike Ross
 XTO Energy Inc.

TRACT ID	SURFACE OWNER	LESSOR	PIN
70	Opal Howard	Jesse Gump	1-18-6 1-18-7
		Floyd B. Smith, a/k/a Bennet Smith Gregory Caldwell and Alice Ann Caldwell John P. Coblentz, Jr. and Dorathea Dillon Coblentz Jacqueline A. Luebke, f/k/a Jacqueline A. Cowell Sharon Norwich Lucy Genevieve Wilson and Robert C. Wilson Laura Higgins Pettit (signed lease as Laura June Pettit) Robert E. Adams, Jr. and Karen F. Norwich Adams Denise Grimaldi Barbara Shafer Jeanie Rush Bertha Stiles Judy Kamppi Albert Stiles, Jr. Phillip R. Higgins Johnathan P. Cowell Michelle Stiles Donna Merritt Brenda Wilson Dillon Kenneth I. Tharp and Judith D. Tharp Michael E. Collins and Dedra L. Collins Patricia Joy Cowell Lewis, a/k/a Patricia Joy Lewis, widow, by Lori Ann Stone, as Attorney-in-Fact Susan V. Statler Charles Mark LaPoe Allan V. LaPoe Harold L. Doll Charlotte May Lemley, a/k/a Charlotte M. Rexrode Patricia Ann Wright Wesley Higgins Mary Copeland Ana Mae Lazzelle James E. Stiles Peggy Ann Morris, f/k/a Peggy Ann Tennant Charles R. Holliday and Ann R. Holliday John William Foley, Jr. Yvonne L. LaPoe Cook Dorothy I. Statler Dottie Stiles Lisa D. Raber-Ammons, f/k/a Lisa D. Raber Joseph B. Bloom and Edith Lucille Bloom Marjorie Karen Francis, a/k/a Karen Francis Judith Guest and Ronald Guest Patricia L. Feidt Franklin Wayne Higgins, Jr. Connie Sue Copeland Donald R. Cross and Karen J. Cross Ronald Eugene Foley Benjamin R. LaPoe Evelyn Jane Kelly Rebecca L. Buchanan Mary Lynn Cumberledge Nila A. Owens Nicole Lynn Wolfe Martha Jean Owens Meredith Margie Walls McMahon and John D. McMahon Jennifer Ham Steven E. Burgung Jonathan N. Stiles and Rhonda C. Stiles Vicky L. McVay Pamela D. Thacker	

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Jeanne F. Songer, f/k/a Jeanne F. Gump Horn
Deborah Jo Henry
Robert Stephen Smith
Rebecca Renee Tennant
Samuel L. Horner and Sharon Horner
Richard C. Tennant and Mary L. Tennant
Carol Appleman Pace
William Paul Phillips, Sr.
Bradley S. Higgins and Caushana L. Higgins
Wilma C. Stiles, a/k/a Pat Stiles
Samuel L. Love
Donald P. Stiles
Scott N. Stiles
Nicholas T. Love
Carl W. Tennant
Kay E. Stiles
Nancy June Yost and Vincent R. Yost, Sr.
Anita D. Jaggie, f/k/a Anita Miller and Billy J. Jaggie
Denise L. Wylie, f/k/a Denise Vaughn
Jerilyn J. Miller
Jeffrey V. Whitehill
Joseph H. Mutter, Jr.
Charles F. Tennant, Jr.
Nancy K. Teem
Ralph B. Henderson
Carol Ann Hoffman
E. Jeanne Bryner
Donald Gilbert Stiles
Nancy L. Henderson
Barbara K. George
Ray Eugene Heston and Judy A. Heston
Mary Kay Martindale
Barbara Jean Ashley
Robert L. Krichbaum
Gerald E. Gill Sr.
Cathy G. Schloemer
David Alan Copeland
Waleta Stacy Rodeheaver and Randy N. Rodeheaver
Gary A. Stiles
Jane K. Hunter
Phillip E. Miller Jr.
Laurel Eikey
Sheila Ruck
Roberta M. King
Robert Jeffrey Leach
Nancy L. Henderson, f/k/a Nancy L. Edwards
David W. Henderson and Gail A. Henderson
John Lewis Eddy
Theodore Ernest Copeland
Beverly Anne Gill
Ann Ruth Barr, f/k/a Anna Ruth Stiles
Country Roads Minerals, LLC
Opal Howard
Carol S. Appleman
James D. Appleman
John Binckley, a/k/a John L. Binckley, Jr.
Vivian Louise Russell Brown, a/k/a Vivian Louise Russell
Judy Ann Farber, a/k/a Judy Ann Stiles Clovis
Karen S. Collins
Dale L. Copeland
Gary Allen Copeland
Daniel Faulkner
Shanan L. Cummings
Robert D. Doll, II
George F. Duckro
Patricia D. Duckro
John D. Eisenbarger
Barbara A. Nystrom, a/k/a Barbara Ann Nystrom
Margaret E. Balsley, a/k/a Margaret Elizabeth Balsley
Betty Haugt

09/15/2023

Chad Everett Higgins, a/k/a Chad E. Higgins
Troy Hixenbaugh
David Juristy
James A. Juristy
Barbara R. Hyde, a/k/a Barbara Miller Hyde
Kelly Ann Kinder Horner
Mary Knisely
Kim Kosbe
Robert A. Mutter
Christopher Love
Scott Love
Donna A. Mackey
Robert Lee Miller, Jr.
Steven Miller
Christopher Eikey
Brenda Smith
Diane L. Allen, f/k/a Diane Smith
Garry Smith
Iva Lee Stewart
Emery Stewart, II
Vicki Anderson
Tamala Brandan
Stephenie Awroski
David Lee Stiles
James Douglas Stiles
Lucas Eugene Stiles
Bernice Tennant
Diana Linn Tennant
Jack V. Tennant, Jr.
James S. Tennant
Michael Lynn Tennant
Peter Tennant
Robert P. Tennant
Robert D. Tennant
William Gary Tennant
Daniel Walls
George R. Walls, a/k/a George Walls
Betty Jo Walsh
Wilbur Carl Whitehill, Jr.
Robert Miller
Floyd Eugene Cox
Robert L. Stiles
Blue Ridge Royalties LLC

TRACT ID	SURFACE OWNER	LESSOR	PIN
71	Robert L. Cole, et ux	Jesse Gump	1-18-7
		Floyd B. Smith, a/k/a Bennet Smith	
		Gregory Caldwell and Alice Ann Caldwell	
		John P. Coblentz, Jr. and Dorathea Dillon Coblentz	
		Jacqueline A. Luebke, f/k/a Jacqueline A. Cowell	
		Sharon Norwich	
		Lucy Genevieve Wilson and Robert C. Wilson	
		Laura Higgins Pettit (signed lease as Laura June Pettit)	
		Robert E. Adams, Jr. and Karen F. Norwich Adams	
		Denise Grimaldi	
		Barbara Shafer	
		Jeanie Rush	
		Bertha Stiles	
		Judy Kamppi	
		Albert Stiles, Jr.	
		Phillip R. Higgins	
		Johnathan P. Cowell	
		Michelle Stiles	
		Donna Merritt	
		Brenda Wilson Dillon	
		Kenneth I. Tharp and Judith D. Tharp	
		Michael E. Collins and Dedra L. Collins	
		Patricia Joy Cowell Lewis, a/k/a Patricia Joy Lewis, widow, by Lori Ann Stone, as Attorney-in-Fact	
		Susan V. Statler	
		Charles Mark LaPoe	

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Allan V. LaPoe
Harold L. Doll
Charlotte May Lemley, a/k/a Charlotte M. Rexrode
Patricia Ann Wright
Wesley Higgins
Mary Copeland
Ana Mae Lazzelle
James E. Stiles
Peggy Ann Morris, f/k/a Peggy Ann Tennant
Charles R. Holliday and Ann R. Holliday
John William Foley, Jr.
Yvonne L. LaPoe Cook
Dorothy I. Statler
Dottie Stiles
Lisa D. Raber-Ammons, f/k/a Lisa D. Raber
Joseph B. Bloom and Edith Lucille Bloom
Marjorie Karen Francis, a/k/a Karen Francis
Judith Guest and Ronald Guest
Patricia L. Feidt
Franklin Wayne Higgins, Jr.
Connie Sue Copeland
Donald R. Cross and Karen J. Cross
Ronald Eugene Foley
Benjamin R. LaPoe
Evelyn Jane Kelly
Rebecca L. Buchanan
Mary Lynn Cumberledge
Nila A. Owens
Nicole Lynn Wolfe
Martha Jean Owens Meredith
Margie Walls McMahon and John D. McMahon
Jennifer Ham
Steven E. Burgung
Jonathan N. Stiles and Rhonda C. Stiles
Vickey L. McVay
Pamela D. Thacker
Jeanne F. Songer, f/k/a Jeanne F. Gump Horn
Deborah Jo Henry
Robert Stephen Smith
Rebecca Renee Tennant
Samuel L. Horner and Sharon Horner
Richard C. Tennant and Mary L. Tennant
Carol Appleman Pace
William Paul Phillips, Sr.
Bradley S. Higgins and Caushana L. Higgins
Wilma C. Stiles, a/k/a Pat Stiles
Samuel L. Love
Donald P. Stiles
Scott N. Stiles
Nicholas T. Love
Carl W. Tennant
Kay E. Stiles
Nancy June Yost and Vincent R. Yost, Sr.
Anita D. Jaggie, f/k/a Anita Miller and Billy J. Jaggie
Denise L. Wylie, f/k/a Denise Vaughn
Jerilyn J. Miller
Jeffrey V. Whitehill
Joseph H. Mutter, Jr.
Charles F. Tennant, Jr.
Nancy K. Teem
Ralph B. Henderson
Carol Ann Hoffman
E. Jeanne Bryner
Donald Gilbert Stiles
Nancy L. Henderson
Barbara K. George
Ray Eugene Heston and Judy A. Heston
Mary Kay Martindale
Barbara Jean Ashley
Robert L. Krichbaum

09/15/2023

Gerald E. Gill Sr.
Cathy G. Schloemer
David Alan Copeland
Waleta Stacy Rodeheaver and Randy N. Rodeheaver
Gary A. Stiles
Jane K. Hunter
Phillip E. Miller Jr.
Laurel Eikey
Sheila Ruck
Roberta M. King
Robert Jeffrey Leach
Nancy L. Henderson, f/k/a Nancy L. Edwards
David W. Henderson and Gail A. Henderson
John Lewis Eddy
Theodore Ernest Copeland
Beverly Anne Gill
Ann Ruth Barr, f/k/a Anna Ruth Stiles
Country Roads Minerals, LLC
Shirley L. Cole
Carol S. Appleman
James D. Appleman
John Binckley, a/k/a John L. Binckley, Jr.
Vivian Louise Russell Brown, a/k/a Vivian Louise Russell
Judy Ann Farber, a/k/a Judy Ann Stiles Clovis
Karen S. Collins
Dale L. Copeland
Gary Allen Copeland
Daniel Faulkner
Shanan L. Cummings
Robert D. Doll, II
George F. Duckro
Patricia D. Duckro
John D. Eisenbarger
Barbara A. Nystrom, a/k/a Barbara Ann Nystrom
Margaret E. Balsley, a/k/a Margaret Elizabeth Balsley
Betty Haught
Chad Everett Higgins, a/k/a Chad E. Higgins
Troy Hixenbaugh
David Juristy
James A. Juristy
Barbara R. Hyde, a/k/a Barbara Miller Hyde
Kelly Ann Kinder Horner
Mary Knisely
Kim Kosbe
Robert A. Mutter
Christopher Love
Scott Love
Donna A. Mackey
Robert Lee Miller, Jr.
Steven Miller
Christopher Eikey
Brenda Smith
Diane L. Allen, f/k/a Diane Smith
Garry Smith
Iva Lee Stewart
Emery Stewart, II
Vicki Anderson
Tamala Brandan
Stephenie Awroski
David Lee Stiles
James Douglas Stiles
Lucas Eugene Stiles
Bernice Tennant
Diana Linn Tennant
Jack V. Tennant, Jr.
James S. Tennant
Michael Lynn Tennant
Peter Tennant
Robert P. Tennant
Robert D. Tennant

09/15/2023

		William Gary Tennant	
		Daniel Walls	
		George R. Walls, a/k/a George Walls	
		Betty Jo Walsh	
		Wilbur Carl Whitehill, Jr.	
		Robert Miller	
		Floyd Eugene Cox	
		Robert L. Stiles	
		Blue Ridge Royalties LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
73	Gene D. Yost & Sara E. Yost	Marjorie J. Kroh, a widow	1-18-19.1
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Gene D. Yost and Sara E. Yost, husband and wife	
		EQT Production Company and Rice Drilling B LLC	
		Glenn Roger Yost and Nancy Yost, husband and wife	
		Larry Wayne Yost, a married man dealing in his sole and separate property	
		Jerry Lee Yost, widower	
		Mary Marlene Miller a/k/a Mary Marlene Alvarez, widow	
		Eilene Yvonne Turner a/k/a Eilene Kucix a/k/a Eilene Yvonne Kucera, a married woman, dealing in her sole and separate property	
		Steven Randolph Hartley and Brynn Hartley, husband and wife	
		Janet M. Shriver. a married woman, dealing in her sole and separate property	
		Gary Lynn Yost, a widower	
		Richard A. Tennant, a single man	
		Christine Elizabeth Fritz and James Fritz, wife and husband	
		Judith A. Ammons, a widow	
		Jennifer Claunch Meyers and Robert E. Meyers, wife and husband	
		Robert Lee Hartley and Judy Hartley, husband and wife	
		Christopher Claunch	
TRACT ID	SURFACE OWNER	LESSOR	PIN
74	Richard A. Tennant	EQT Production Company and Rice Drilling B LLC	1-18-19
		Steven Randolph Hartley and Brynn Hartley	
		Christine Elizabeth Fritz and James Fritz	
		Jennifer Claunch Meyers and Robert E. Meyers	
		Robert Lee Hartley and Judy Hartley	
		Glenn Roger Yost and Nancy E. Yost	
		Larry Wayne Yost	
		Jerry Lee Yost	
		Mary Marlene Miller Alvarez	
		Eilene Yvonne Turner, a/k/a Eilene Kucix a/k/a Eilene Yvonne Kucera	
		Gary Lynn Yost	
		Gene D. Yost and Sara E. Yost	
		Christopher Claunch	
		Marjorie J. Kroh	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Vivian Maxine Tennant Estate, by Janet M. Shriver, acting as Executrix; Richard A. Tennant, a single man; Janet M. Shriver, a married woman dealing in her sole and separate property; and Judith A. Ammons, a single woman	
		Northeast Natural Energy LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
76	Thomas Oetjens Marshall Sr.	EQT Production Company and Rice Drilling B LLC	1-18-18
		Steven Randolph Hartley and Brynn Hartley	
		Christine Elizabeth Fritz and James Fritz	
		Jennifer Claunch Meyers and Robert E. Meyers	
		Robert Lee Hartley and Judy Hartley	
		Thomas Oetjens Marshall, widower	
		Christopher Claunch	
		Marjorie J. Kroh	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	

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TRACT ID	SURFACE OWNER	LESSOR	PIN
78	Harry Bradley, et ux, et al	Bounty Minerals II Acquisitions, LLC	1-18-14 1-18-14.1 THROUGH 1-18-14.5
		Lola Drilling I, LLC	
		Rice Drilling B LLC	
		Virginia L. Law	
		Janet Watkins	
		Juanita Ely	
		Rose Marie Shape	
		Walter M. Stewart II	
		Vivian Petoskey	
		Benjamin Wirick	
		Kelly J. Kelly	
		Ruth Ann Tallman	
		B. Eleanor Crowley	
		Betty Pitcock	
		Darlene Newsom	
		Diane R. Kalafsky	
		William H. Mace	
		Daniel R. Crowley	
		Charlene Crapnell	
		Harold P. Stewart, Jr.	
		Diana Lynn Stewart	
		Louise A. Stewart England	
		Byron E. Stewart, II	
		John A. Eddy	
		Paula Kalafsky	
		Laraine Metheny	
		Thomas William Crowley	
		Brentyn M. Mace	
		Greg W. Mace	
		Janet Boord	
		Martha Menzies and Harold D. Rogers, as trustees of the Martha Menzies Trust	
		Morris Mountaineer Oil and Gas LLC	
		Sidney Austin Smith Trust LLC	
		Thomas E. Ross	
		Richard M. Ross	
		Debra L. Mason	
		Carol Curtis	
		Dwight E. Jackson	
		Judy Wirick	
		Dwight Herd	
		Michael Delbert Herd	
		Christine Ann Boyd	
		Charles Patrick Herd	
		Bruce A. Davie, Jr.	
		Polly Fryman	
		Robert W. Davie	
		Jerry L. Hoffman	
		Cheryl J. Bosse	
		Rodney A. Bosse	
		JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	
		Robert Lee Mace III	
		Jeffrey R. Mace	
		Kyle J. Davie	
		Summer G. Johnson	
		Jessica L. Baum, a/k/a Jessica L. Gerwells	
		James Eric Davie	
		Susan Kimbrell	
		Richard A. Stewart	
		Andrew T. Stewart	
		Joyce Lydic	
		Thomas L. Hoffman	
		Lois Esspenshade	

09/15/2023

Judith Gashie
Margo Urbany Joyce
Hyla N. Urbany
Toledo Animal Shelter
Waco Oil & Gas Co., Inc.; I.L. Morris, Mike Ross, Inc.; Mike Ross
XTO Energy Inc.

09/15/2023