

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

WV Department of Environmental Protection

JUN 27 2023

Office of Oil and Gas

API 47-091-01900 County MONONGALIA District BATTELLE  
Quad WADESTOWN Pad Name WDTN19 Field/Pool Name \_\_\_\_\_  
Farm name CNX Gas Company LLC Well Number WDTN19BHSM  
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 4393938.836 Easting 556994.942  
Landing Point of Curve Northing 4393911.691 Easting 556706.624  
Bottom Hole Northing 4395966.543 Easting 554918.642

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 06.06.2022 Date drilling commenced 08.23.2022 (spud) Date drilling ceased 01.20.2023  
Date completion activities began 03.13.2023 Date completion activities ceased 04.04.2023  
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 125', 584', 845', 933', 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

**APPROVED**

Reviewed by:  
MDK 6/29/2023  
**09/15/2023**

API 47-061 - 01900 Farm name CNX Gas Company LLC Well number WDTN19BHSM

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"	1,204'	NEW	J-55 54.5lb/ft	N/A	Y - CEMENT TO SURFACE
Coal							
Intermediate 1	12.25"	9.625"	2,986'	NEW	J-55 36lb/ft	N/A	Y - CEMENT TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75" & 8.5"	5.5"	17,138'	NEW	P-110 23lb/ft	N/A	Y - TOC @ 802'
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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	HALCEM	845	15.8	1.17	989	Surface	8
Coal							
Intermediate 1	HALCEM	970	15.8	1.15	1,116	Surface	8
Intermediate 2							
Intermediate 3							
Production	NEOCEM / NEOCEM	1,110(LEAD) / 2,350(TAIL)	15.0 / 15.0	1.13 (LEAD) / 1.12 (TAIL)	1,109(LEAD) / 2,632(TAIL)	802'	8
Tubing							

Drillers TD (ft) 17,168' Loggers TD (ft) 17,168'

Deepest formation penetrated MARCELLUS Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 7,172' (MD) 7,114' (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 - 01900 Farm name CNX Gas Company LLC Well number WDTN19BHSM

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
MARCELLUS	7,916'	TVD	13,333' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2,225 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 2,756.34 mcfpd Oil 0 bpd NGL 0 bpd Water 1,884 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 <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
					(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

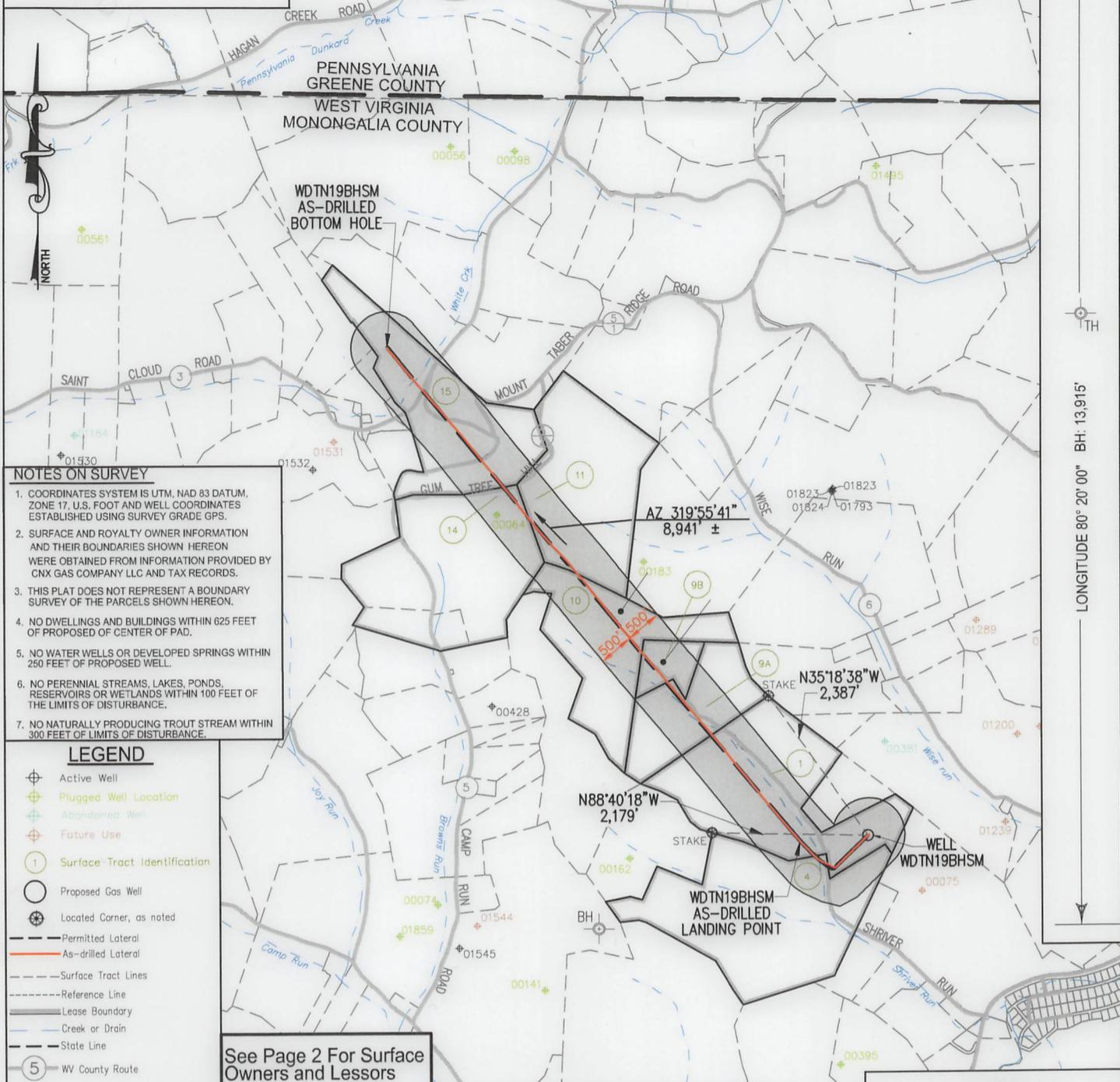
Please insert additional pages as applicable.

Completed by Jarrett Jones Telephone 304-276-3970  
Signature Jarrett Jones / smj Title Superintendent Completions Date 06.23.2023

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

09/15/2023

WDTN19BHSM  
CNX Gas Company LLC



- 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 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
  - Lease Boundary
  - Creek or Drain
  - State Line
  - WV County Route
  - WV State Route

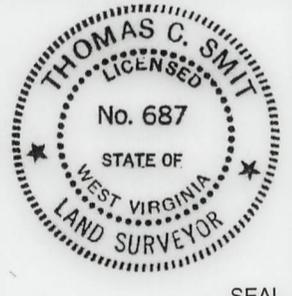
See Page 2 For Surface Owners and Lessors

( ) 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 - 01900  
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 ±

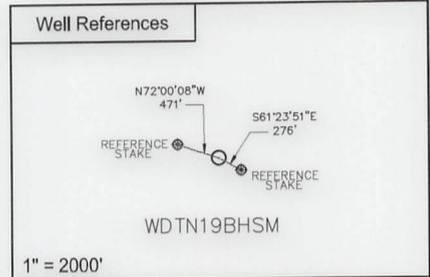
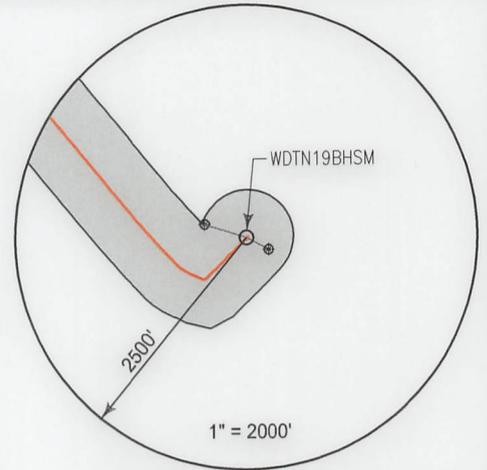
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 7,913'

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

WDTN19BHSM  
CNX Gas Company LLC

TRACT ID	SURFACE OWNER	LESSOR	PIN
1	CNX Gas Company LLC	Hugh Kirkland Jack T. Livengood and Mary Jo Livengood Barbara Haning Diane H. Gonclaves, individually and co-executor of the Edward Lee North Estate Patrick Lee North  Melissa Kubishke Catherine C. Kirkland Louise H. Berg, as Trustee o the The Louise H. Berg Revocable Trust Sherry Lemons Christine A. Kirkland, as Trustee of the Christine A. Kirkland 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 Debra Rae Manning, a/k/a Deborah R. Manning, a/k/a Debra 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  Gail T. Bellucci Northeast Natural Energy, LLC	1-8-9
4	Troy David 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



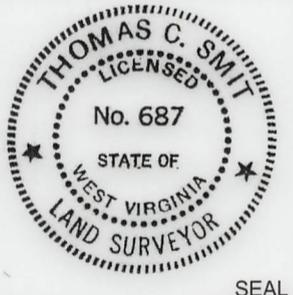
SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393938.836	
E: 556994.942	
NAD 83, WV NORTH	
N: 435761.606	
E: 1733464.051	
LAT/LON DATUM NAD 83	
LAT: 39°41'36.212"	
LON: 80°20'06.947"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393911.691	
E: 556706.624	
NAD 83, WV NORTH	
N: 435688.342	
E: 1732516.485	
LAT/LON DATUM NAD 83	
LAT: 39°41'35.401"	
LON: 80°20'19.061"	

WDTN19 WELL PAD		BOTTOM HOLE LOCATION (BHL)	
○ WDN19EHSM		UTM 17 NAD 83	
○ WDN19DHSM		N: 4395966.543	
○ WDN19BHSM		E: 554918.642	
○ WDN19CHSM		NAD 83, WV NORTH	
○ WDN19FHSM		N: 442529.113	
○ WDN19AHSM		E: 1726762.128	
○ WDN19RHSM		LAT/LON DATUM NAD 83	
		LAT: 39°42'42.471"	
		LON: 80°21'33.512"	



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: _____	 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	DATE: JUNE 08 20 23
DRAWING NO: _____		OPERATORS WELL NO: _____
SCALE: 1" = 1000'		API WELL NO: 47 - 061 - 01900
MINIMUM DEGREE OF ACCURACY: 1:2500		STATE COUNTY PERMIT
PROVEN SOURCE OF ELEVATION: NGS CORS Station		
WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> 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: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input checked="" type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> 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

TRACT ID	SURFACE OWNER	LESSOR	PIN
9A	CNX Gas Company LLC	Three Rivers Royalty II LLC	1-8-7
		Elizabeth L. March, widow	
		Kathryn Rew Becker and Michael Compton, wife and husband	
		Debora Rae Manning aka Deborah R. Manning aka Debora R. Manning and Robert Manning, wife and husband	
		Michelle Artmand and Kevin B. Artman, wife and husband	
		Cindy Pourbaix, a married woman dealing in her sole and separate property	
		Gary Lee Stanley, a married man dealing in his sole and separate property	
		Edna Green, single	
		Harriet Smith Leurant, widow	
		Karen Ilario, a married woman dealing in her sole and separate property	
		Gayle Brancazio and Rick Brancazio, wife and husband	
		Audrey Gleske and John Gleske, wife and husband	
		Barry B. Burnfield and Linda Burnfield, husband and wife	
		Dorothy Burnfield Ringler	
		Paul Cross Jr., divorced	
		Tammy King, a married woman, dealing in her sole and separate property	
		Stanley Roscoe Burnfield, a married man dealing in his sole and separate property	
		Anna Marie Eddy and Kyle F. Eddy, wife and husband	
		Shawn R. Moore, a married man dealing in his sole and separate property	
		William C. Burnfield, widower	
		Patricia Dian Wilson and Henry C. Wilson, wife and husband	
		Melinda Kay Hibbs and Harold E. Hibbs, wife and husband	
		Stanley C. Moore and Nancy Ella Moore, husband and wife	
		Patricia Simpson, widow	
		Judy Lynn Stanley, a single woman	
		Susan Hennen, a single woman	
		William F. Reeves, widower	
		Edgar A. Moore Jr., a single man	
		Tina Leigh Goodman, a single woman	
		Crystal Loudin aka Christal Loudin and John A. Loudin, wife and husband	
		Jackie S. Shriver, divorced	
		Martha A. Muscavitch aka Peggy Muscavitch, a married woman dealing in her sole and separate property	
		Nancy J. Cummins, single	
		Janet E. Dulaney aka Jan Dulaney and Larry D. Dulaney, wife and husband	
		Roger Stanley and Donna Stanley, husband and wife	
		Christopher S. Erichsen, divorced	
		Barbara Acklin Stewart and Kenneth Stewart, wife and husband	
		Charles F. Acklin and Wanda L. Acklin, husband and wife	
		Timothy J. Acklin, a married man dealing in his sole and separate property	
		Stanley D. DeBolt, single	
		Vance V. DeBolt, a married man dealing in his sole and separate property	
		Cheryl Diane Gregerson, Single	
		Sharon Margevicius, a married woman dealing in her sole and separate property	
		Gay Byard	
		Mary Jo White Livengood	
		Elaine Grabowski and Charles Andrew Grabowski, wife and husband	
		Nanette L. Leurant, an individual, dealing in her sole and separate property	
		Michael Burnfield, a single man	
		Brian Burnfield, a single man	
		Floretta Finnegan Burnfield, a widow	
		Ruth Mihalec	
		Arthur Cross	
		Dan DeBolt	
		Shannon DeBolt Knapp	
		Rick Brewer	
		Lori Tomblin	
		Kevan Burnfield	
		Stuart A. Moore	
		Karen Soto	
		Mary E. Bush	
9B	CNX Gas Company LLC	Three Rivers Royalty II LLC	1-8-6
		Elizabeth L. March, widow	
		Kathryn Rew Becker and Michael Compton, wife and husband	
		Debora Rae Manning aka Deborah R. Manning aka Debora R. Manning and Robert Manning, wife and husband	
		Mary Jo White Livengood	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
10	Regis V. Provance, ET UX., ET AL	Regis B. Provance aka Regis V. Provance and Bonnie M. Provance, husband and wife	1-9-41 & 44
		Brian L. Provance, single	
		Regis B. Provance II, single	
		Larry J. Miller, Jr.	
		Melissa Kubishke, dealing in her sole and separate property	
		Catherine C. Kirkland, a single woman	
		Louise H. Berg, as Trustee of the Louise H. Berg Revocable Trust	
		Sherry Lemons, a married woman dealing in her sole and separate property	
		Christine A. Kirkland, as Trustee of the Christine A. Kirkland	
		Stephen D. Kirkland and Julie D. Kirkland, Trustees of the Kirkland Family Revocable Trust	
		Pamela Jane Brewer, as Trustee of the Pamela Jane Brewer Revocable Trust	
		Catherine Haning Coleman f.k.a. Catherine G. Haning, a married woman dealing in her sole and separate property	
		Zachary C. Haning, a married man dealing in his sole and separate property	
		Mary Hennen, a single woman	
		A.E. Hennen, III, a married man dealing in his sole and separate property	
		Morgan Haning, a married man dealing in his sole and separate property	
		Sarah C. Sheridan, a married woman dealing in her sole and separate property	
		BOKF, NA, as sole trustee of the Alma Kirkland Revocable Trust	
		Kathleen Farmer, a married woman dealing in her sole and separate property	
		Anne W. Haning, single	
		David Michael Hennen, a married man dealing in his sole and separate property	
		John K. Hennen, single	
		Robert Douglas Hennen	
		Michelle Woods f.k.a. Michelle Brienne Haines, a married woman dealing in her sole and separate property	
		David B. Haines and Jeanette C. Haines, husband and wife	
		Jean Banks, a widow	
		Constance A. Corey f.k.a. Constance Ann Haines and Robert Corey, husband and wife	
		Rosalie J. Capshaw, widowed	
		Phillips Ronald Laws and Sarah Laws, husband and wife	
		Kris Laws Miller and Robin McClary, her wife	
		Faye B. Sigman f.k.a. Faye Arnold Buckley, herein dealing with her sole and separate property	
		Glynis Marion, f.k.a. Glynis Lan, herein dealing in her sole and separate property	
		Barbara Thomas, widow	
		Raymond Wayne Frye, divorced	
		William Lee Haines, Jr., dealing in his sole and separate	
		Lisa Craig, divorced	
		Kathleen Costner f.k.a. Kathy Figueroa, divorced	
		Mike E. Macale, single	
		Mark A. Macale, single	
		Jerilyn R. Baucum, married herein dealing in her sole and separate property	
		Terri Attinger f.k.a. Terri Devlin and Richard C. Attinger, wife and husband	
		Dorothy A. Hammer, divorced	
		June Fulton f.k.a. Jane Fulton, herein dealing in her sole and separate property	
		Pepe Patrick Jack Miller f.k.a. Pat Miller and Kelly Anne Miller, husband and wife	
		Julie Ann Griffis and Gary Griffis, wife and husband	
		Three Rivers Royalty, II, LLC	
		Gail T. Bellucci	
		Northeast Natural Energy, LLC	
		Barbara Haning	
		Hugh Kirkland	
		Patrick Lee North, individually and as co-executor of the Edward Lee North Estate	
		Diane H. Goncalves, individually and as co-executor of the Edward Lee North Estate	
		Shawn R. Haines, single	
		Jerry R. Haines, II, a married man, dealing with his sole and separate property	
		Tonya Huntoon, a married woman, dealing in her sole and separate property	
		Carlos Saucedo	
		Ezra Charles McDaniel	
		Patrick James Saucedo	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
11	CNX Land LLC	Ralph Six, individually Antero Resources Corporation	1-9-17
14	Richard J & Linda Ann Cassone	John Samuel Stewart, a married man acting with his sole and separate property	1-9-18
14	Curtis L & Diana B Thomas	Samuel William Stewart and Barbara C. Stewart, individually and as husband and wife	1-9-18.1 1-9-18.3
14	Zachary R & Jacqueline E Phillips	Merrion Oil and Gas Corporation Hu's Land & Minerals, LLC EQT Production Company  Richard J. Cassone and Linda Ann Cassone, husband and wife Harold Creel and Martha Ann Creel, husband and wife James Creel, a married man dealing in his sole and separate property	1-9-18.2
15	Glenn Lowell White & Sharron Ruth White Bartholomew	Elizabeth A. Martineau, a/k/a, Elizabeth Ada Snyder, a/k/a/, Elizabeth Snyder Martineau Rebecca Snyder Bromley, a/k/a Alice Rebecca Snyder Bromley James Brant Snyder Sharon White Bartholomew, a/k/a Sharon R. W. Bartholomew, a/k/a, Sharon Ruth White Bartholomew David T. White and Sarah K. White, h/w Glenn L. White, individually and as trustee of Glenn L. White Alice T. Boone Eldon Bryant Tucker and Brenda Sue Tucker Charles Tucker and Barbara Arpino-Tucker Robert Earl Tucker and Patricia Ruth Tucker David Tucker James Tucker and Flora Siu Tucker Cheryl Molesky Laurence D. Hare James F. Hare III and Christine A. Hare Deborah Horton, Trustee and Beneficiary of the Ronald L. Horton Revocable Living Trust  XTO Energy, Inc.	1-9-16

09/15/2023

ATTACHMENT 1: WDTN19BHSM 47-061-01900

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19BHSM	1	3/13/2023	17,015.95	17,112.00	24	Marcellus Shale
WDTN19BHSM	2	3/13/2023	16,793.15	16,957.00	40	Marcellus Shale
WDTN19BHSM	3	3/14/2023	16,591.15	16,755.00	40	Marcellus Shale
WDTN19BHSM	4	3/14/2023	16,389.15	16,553.00	40	Marcellus Shale
WDTN19BHSM	5	3/14/2023	16,187.15	16,351.00	40	Marcellus Shale
WDTN19BHSM	6	3/14/2023	15,985.15	16,149.00	40	Marcellus Shale
WDTN19BHSM	7	3/15/2023	15,783.15	15,947.00	40	Marcellus Shale
WDTN19BHSM	8	3/15/2023	15,581.15	15,745.00	40	Marcellus Shale
WDTN19BHSM	9	3/15/2023	15,379.15	15,543.00	40	Marcellus Shale
WDTN19BHSM	10	3/16/2023	15,177.15	15,341.00	40	Marcellus Shale
WDTN19BHSM	11	3/16/2023	14,975.15	15,139.00	40	Marcellus Shale
WDTN19BHSM	12	3/16/2023	14,773.15	14,937.00	40	Marcellus Shale
WDTN19BHSM	13	3/16/2023	14,571.15	14,735.00	40	Marcellus Shale
WDTN19BHSM	14	3/17/2023	14,369.15	14,533.00	40	Marcellus Shale
WDTN19BHSM	15	3/17/2023	14,167.15	14,331.00	40	Marcellus Shale
WDTN19BHSM	16	3/17/2023	13,965.15	14,129.00	40	Marcellus Shale
WDTN19BHSM	17	3/18/2023	13,763.15	13,927.00	40	Marcellus Shale
WDTN19BHSM	18	3/18/2023	13,561.15	13,725.00	40	Marcellus Shale
WDTN19BHSM	19	3/18/2023	13,359.15	13,523.00	40	Marcellus Shale
WDTN19BHSM	20	3/19/2023	13,157.15	13,321.00	40	Marcellus Shale
WDTN19BHSM	21	3/23/2023	12,955.15	13,119.00	40	Marcellus Shale
WDTN19BHSM	22	3/24/2023	12,753.15	12,917.00	40	Marcellus Shale
WDTN19BHSM	23	3/24/2023	12,551.15	12,715.00	40	Marcellus Shale
WDTN19BHSM	24	3/25/2023	12,349.15	12,513.00	40	Marcellus Shale
WDTN19BHSM	25	3/25/2023	12,147.15	12,311.00	40	Marcellus Shale
WDTN19BHSM	26	3/26/2023	11,945.15	12,109.00	40	Marcellus Shale
WDTN19BHSM	27	3/26/2023	11,743.15	11,907.00	40	Marcellus Shale
WDTN19BHSM	28	3/26/2023	11,541.15	11,705.00	40	Marcellus Shale
WDTN19BHSM	29	3/27/2023	11,339.15	11,503.00	40	Marcellus Shale
WDTN19BHSM	30	3/27/2023	11,137.15	11,301.00	40	Marcellus Shale
WDTN19BHSM	31	3/27/2023	10,935.15	11,099.00	40	Marcellus Shale
WDTN19BHSM	32	3/27/2023	10,733.15	10,897.00	40	Marcellus Shale
WDTN19BHSM	33	3/28/2023	10,531.15	10,695.00	40	Marcellus Shale
WDTN19BHSM	34	3/28/2023	10,329.15	10,493.00	40	Marcellus Shale
WDTN19BHSM	35	3/28/2023	10,127.15	10,291.00	40	Marcellus Shale
WDTN19BHSM	36	3/29/2023	9,925.15	10,089.00	40	Marcellus Shale
WDTN19BHSM	37	3/30/2023	9,723.15	9,886.70	40	Marcellus Shale
WDTN19BHSM	38	3/31/2023	9,520.25	9,684.60	40	Marcellus Shale
WDTN19BHSM	39	4/3/2023	9,317.25	9,481.60	40	Marcellus Shale
WDTN19BHSM	40	4/3/2023	9,114.25	9,278.60	40	Marcellus Shale
WDTN19BHSM	41	4/3/2023	8,911.25	9,075.60	40	Marcellus Shale
WDTN19BHSM	42	4/3/2023	8,708.25	8,872.60	40	Marcellus Shale
WDTN19BHSM	43	4/4/2023	8,505.25	8,669.60	40	Marcellus Shale
WDTN19BHSM	44	4/4/2023	8,302.25	8,466.60	40	Marcellus Shale

09/15/2023

ATTACHMENT 2: WDTN19BHSM 47-061-01900

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)
WDTN19BHSM	1	3/13/2023	95	10,255.00	6,880.00	5,292.00	477,257.20	9,363.95
WDTN19BHSM	2	3/13/2023	97	10,946.00	6,983.00	5,535.00	452,244.00	8,618.00
WDTN19BHSM	3	3/14/2023	99	10,523.00	6,751.00	6,408.00	496,481.90	8,629.05
WDTN19BHSM	4	3/14/2023	99	10,805.00	6,725.00	7,195.00	487,204.60	8,359.10
WDTN19BHSM	5	3/14/2023	99	11,002.00	7,171.00	6,390.00	483,045.70	8,326.00
WDTN19BHSM	6	3/15/2023	99	10,743.00	6,967.00	6,583.00	470,515.00	8,174.98
WDTN19BHSM	7	3/15/2023	101	10,524.00	7,048.00	6,249.00	476,344.50	7,579.02
WDTN19BHSM	8	3/15/2023	98	10,585.00	6,729.00	6,512.00	474,854.80	8,478.95
WDTN19BHSM	9	3/16/2023	99	10,633.00	6,795.00	6,521.00	484,149.60	7,498.98
WDTN19BHSM	10	3/16/2023	100	10,562.00	6,960.00	6,479.00	494,055.90	7,371.05
WDTN19BHSM	11	3/16/2023	99	10,455.00	6,800.00	6,331.00	534,970.00	9,982.95
WDTN19BHSM	12	3/16/2023	100	10,651.00	6,789.00	6,008.00	470,900.90	7,243.05
WDTN19BHSM	13	3/17/2023	99	10,718.00	7,027.00	6,249.00	475,620.40	7,324.00
WDTN19BHSM	14	3/17/2023	100	10,699.00	6,977.00	5,727.00	476,857.30	7,218.98
WDTN19BHSM	15	3/17/2023	101	10,563.00	6,915.00	6,322.00	471,660.30	7,269.98
WDTN19BHSM	16	3/18/2023	100	10,198.00	7,192.00	6,242.00	471,285.50	7,202.98
WDTN19BHSM	17	3/18/2023	101	10,221.00	6,733.00	6,294.00	499,431.80	7,365.98
WDTN19BHSM	18	3/18/2023	100	10,132.00	7,142.00	5,906.00	492,018.50	7,362.02
WDTN19BHSM	19	3/18/2023	101	9,983.00	6,710.00	6,115.00	453,029.40	7,124.00
WDTN19BHSM	20	3/21/2023	102	9,905.00	6,414.00	6,364.00	488,203.10	7,418.98
WDTN19BHSM	21	3/23/2023	100	9,998.00	6,881.00	6,287.00	481,631.90	7,418.98
WDTN19BHSM	22	3/24/2023	100	9,912.00	7,142.00	6,419.00	476,248.60	7,318.05
WDTN19BHSM	23	3/24/2023	101	10,070.00	7,286.00	6,787.00	456,766.80	7,433.98
WDTN19BHSM	24	3/25/2023	100	9,739.00	6,928.00	6,059.00	444,084.70	6,863.00
WDTN19BHSM	25	3/26/2023	101	9,732.00	7,292.00	6,393.00	472,850.50	7,213.98
WDTN19BHSM	26	3/26/2023	99	9,236.00	7,065.00	6,259.00	477,974.70	7,214.05
WDTN19BHSM	27	3/26/2023	101	9,654.00	7,532.00	6,166.00	478,670.90	7,266.00
WDTN19BHSM	28	3/26/2023	101	9,428.00	7,506.00	6,078.00	487,098.90	7,641.07
WDTN19BHSM	29	3/27/2023	101	9,245.00	7,094.00	6,206.00	457,632.60	7,296.05
WDTN19BHSM	30	3/27/2023	101	9,005.00	6,724.00	5,942.00	480,188.70	7,465.93
WDTN19BHSM	31	3/27/2023	101	9,147.00	7,422.00	6,225.00	487,883.30	7,655.98
WDTN19BHSM	32	3/27/2023	101	9,675.00	7,177.00	6,544.00	482,154.10	7,739.95
WDTN19BHSM	33	3/28/2023	100	9,032.00	7,180.00	5,661.00	495,352.60	7,646.00
WDTN19BHSM	34	3/28/2023	102	9,336.00	6,801.00	6,238.00	484,041.30	7,569.00
WDTN19BHSM	35	3/29/2023	100	9,147.00	6,482.00	5,969.00	475,542.90	7,418.98
WDTN19BHSM	36	3/29/2023	102	9,330.00	7,130.00	5,667.00	478,644.60	8,606.02
WDTN19BHSM	37	3/31/2023	102	9,235.00	6,440.00	5,845.00	494,569.30	7,456.02
WDTN19BHSM	38	4/3/2023	102	9,205.00	7,403.00	6,020.00	484,329.30	7,467.00
WDTN19BHSM	39	4/3/2023	102	9,140.00	7,038.00	6,050.00	491,107.90	7,667.98
WDTN19BHSM	40	4/3/2023	102	9,109.00	7,273.00	6,216.00	494,151.50	7,491.02
WDTN19BHSM	41	4/3/2023	102	9,178.00	6,929.00	5,832.00	485,916.60	7,487.02
WDTN19BHSM	42	4/3/2023	102	9,638.00	7,436.00	6,164.00	412,742.50	6,986.00
WDTN19BHSM	43	4/4/2023	102	9,254.00	7,347.00	5,308.00	479,182.80	7,498.95
WDTN19BHSM	44	4/4/2023	102	9,191.00	6,760.00	5,712.00	395,222.50	6,654.98

09/15/2023

API:47-061-01900

CNX RESOURCES LLC

WELL NAME: WDTN19BHSM

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	1,868	1,781	1,868	GRAY SHALE / TRACES OF SILTSTONE
2nd Salt Sand	1,868	2,010	1,868	2,010	SANDSTONE
3rd Salt Sand	2,010	2,248	2,010	2,248	SANDSTONE
Big Lime	2,248	2,331	2,248	2,331	LIMESTONE
Big Injun Top	2,331	2,535	2,331	2,535	SANDSTONE

API:47-061-01900

CNX RESOURCES LLC

WELL NAME: WDTN19BHSM

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)
Big Injun Base	2,535	2,928	2,535	2,928	SILTSTONE
Gantz	2,928	3,009	2,928	3,009	SANDSTONE / SILTSTONE
Gant Base	3,009	3,107	3,009	3,107	SILTSTONE
50 Foot Sand	3,107	3,161	3,107	3,161	SANDSTONE / SILTSTONE
50 Foot Sand Base	3,161	3,197	3,161	3,197	SILTSTONE
30 Foot Sand	3,197	3,228	3,197	3,228	SANDSTONE
30 Foot Sand Base	3,228	3,283	3,228	3,283	SILTSTONE
Gordon Sand	3,283	3,333	3,283	3,333	SANDSTONE
Gordon Base	3,333	3,387	3,333	3,387	SILTSTONE
Fourth Sand	3,387	3,392	3,387	3,392	SANDSTONE
Fourth Sand Base	3,392	3,563	3,392	3,562	SILTSTONE
Fifth Sand	3,563	3,643	3,562	3,641	SANDSTONE
Fifth Sand Base	3,643	4,930	3,641	4,909	SILTSTONE
Bradford	4,930	5,621	4,909	5,590	SANDSTONE
Elk	5,621	5,870	5,590	5,835	SILTSTONE / GREY SHALE
2nd Elk	5,870	6,912	5,835	6,862	SILTSTONE / GREY SHALE
Rhinestreet	6,912	7,225	6,862	7,170	GREY SHALE
Cashaqua	7,225	7,429	7,170	7,369	GREY SHALE
Middlesex	7,429	7,541	7,369	7,472	GREY SHALE
West River	7,541	7,766	7,472	7,656	GREY SHALE
Burket Shale	7,766	7,806	7,656	7,684	GREY SHALE
Tully Limestone	7,806	7,860	7,684	7,720	LIMESTONE / GRAY SHALE
Hamilton Shale	7,860	8,186	7,720	7,864	GREY SHALE
Upper Marcellus	8,186	8,265	7,864	7,878	BLACK SHALE
Middle Marcellus	8,265	8,323	7,878	7,883	BLACK SHALE
Cherry Valley	8,323	8,513	7,883	7,884	LIMESTONE
Lower Middle Marcellus	8,513		7,884		BLACK SHALE
Onondaga Limestone					LIMESTONE

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/13/2023
Job End Date:	4/4/2023
State:	West Virginia
County:	Monongalia
API Number:	47-061-01900-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	WDTN19BHSM
Latitude:	39.69339200
Longitude:	-80.33526300
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,916
Total Base Water Volume (gal):	14,125,650
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	84.73455	None
Sand	US Silica	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	15.03529	None
StimSTREAM 9800	CHEMSTREAM	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01718	None
			Butene, homopolymer	9003-29-6	25.00000	0.01718	None
			Ethoxylated alcohols	68213-23-0	3.00000	0.00206	None
HCL Acid (28%)	CHEMSTREAM	Acidizing	Hydrochloric Acid	7647-01-0	28.00000	0.03100	None
CoilSTREAM VB 625	CHEMSTREAM	Gelling Agent	Heavy Aliphatic Naphtha	64742-96-7	60.00000	0.00256	None
			Guar Gum	9000-30-0	50.00000	0.00213	None
			Trade Secret	9043-30-5	5.00000	0.00021	None
			Trade Secret	1338-43-8	3.00000	0.00013	None
			Trade Secret	14808-60-7	3.00000	0.00013	None
Clearal 268	CHEMSTREAM	Biocide					

			Glutaraldehyde	111-30-8	20.00000	0.00213	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00032	None
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00032	None
StimStream SC 398	CHEMSTREAM	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00190	None
ACI-250	CHEMSTREAM	Acid corrosion inhibitor					
			Methanol	67-56-1	45.00000	0.00025	None
			Ethylene glycol	107-21-1	20.00000	0.00011	None
			Trade Secret	72480-70-7	15.00000	0.00008	None
			N,N-Dimethylformamide	68-12-2	10.00000	0.00006	None
			2-Butoxyethanol	111-76-2	5.00000	0.00003	None
Ammonium Persulfate	CHEMSTREAM	Breaker					
			Ammonium Persulfate	7727-54-0	100.00000	0.00039	None
Citric Acid 50%	CHEMSTREAM	Iron Control Agent					
			citric acid	77-92-9	50.50000	0.00038	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	0.01718	
			Guar Gum	9000-30-0	50.00000	0.00213	
			Ethoxylated alcohols	68213-23-0	3.00000	0.00206	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00032	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00032	
			Trade Secret	9043-30-5	5.00000	0.00021	
			Trade Secret	1338-43-8	3.00000	0.00013	
			Trade Secret	14808-60-7	3.00000	0.00013	
			Ethylene glycol	107-21-1	20.00000	0.00011	
			Trade Secret	72480-70-7	15.00000	0.00008	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00006	
			2-Butoxyethanol	111-76-2	5.00000	0.00003	

\* 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)