

RECEIVED
Office Of Oil and Gas
JUN 27 2023

WV Department of
Environmental Protection

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

API 47 - 061 - 01904 County MONONGALIA District BATTELLE
Quad WADESTOWN Pad Name WDTN19 Field/Pool Name _____
Farm name CNX Gas Company LLC Well Number WDTN19FHSM
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 4393932.801 Easting 556995.790
Landing Point of Curve Northing 4393779.671 Easting 557236.522
Bottom Hole Northing 4390285.744 Easting 559758.101

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 08.29.2022 Date drilling commenced 08.29.2022 (spud) Date drilling ceased 01.04.2023
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:
MDIC 6/29/2023
09/15/2023

API 47-061 - 01904 Farm name CNX Gas Company LLC Well number WDTN19FHSM

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"	1,199'	NEW	J-55 54.5lb/ft	N/A	Y - CEMENT TO SURFACE
Coal							
Intermediate 1	12.25"	9.625"	2,968'	NEW	J-55 36lb/ft	N/A	Y - CEMENT TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75" & 8.5"	5.5"	22,910	NEW	P-110 23lb/ft	N/A	Y - TOC @ 3,775'
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	970	15.8	1.15	1,116	Surface	8
Intermediate 2							
Intermediate 3							
Production	NEOCEM / NEOCEM	1,080LEAD / 3,760TAIL	15.0 / 15.0	1.13 (LEAD) / 1.12 (TAIL)	1,220LEAD / 4,211TAIL	3,775'	8
Tubing							

Drillers TD (ft) 22,932' Loggers TD (ft) 22,932'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7,177' (MD) 7,140' (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 _____

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>7,974'</u>	<u>TVD</u>	<u>11,624'</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 2,100 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 7,532.25 mcfpd Oil 0 bpd NGL 0 bpd Water 3,362 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME 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, H ₂ S, ETC)
	<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 SERVICE
Address 1780 HUGHES LANDING BLVD., SUITE 125 City THE WOODLANDS State TX Zip 77380

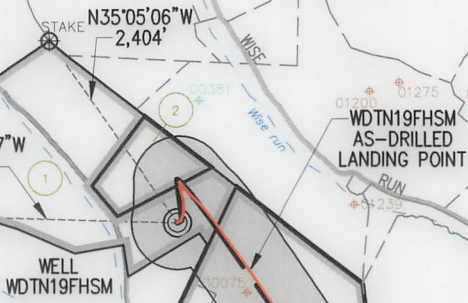
Please insert additional pages as applicable.

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

WDTN19FHSM
CNX Gas Company LLC



NOTES ON SURVEY

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE OBTAINED FROM INFORMATION PROVIDED BY CNX GAS COMPANY LLC AND TAX RECORDS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. 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

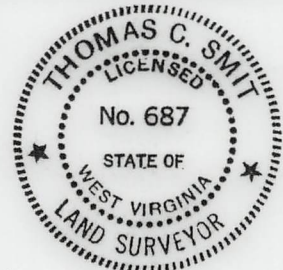
() Denotes Location of Well on United States Topographic Maps



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



SEAL

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 - 01904
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

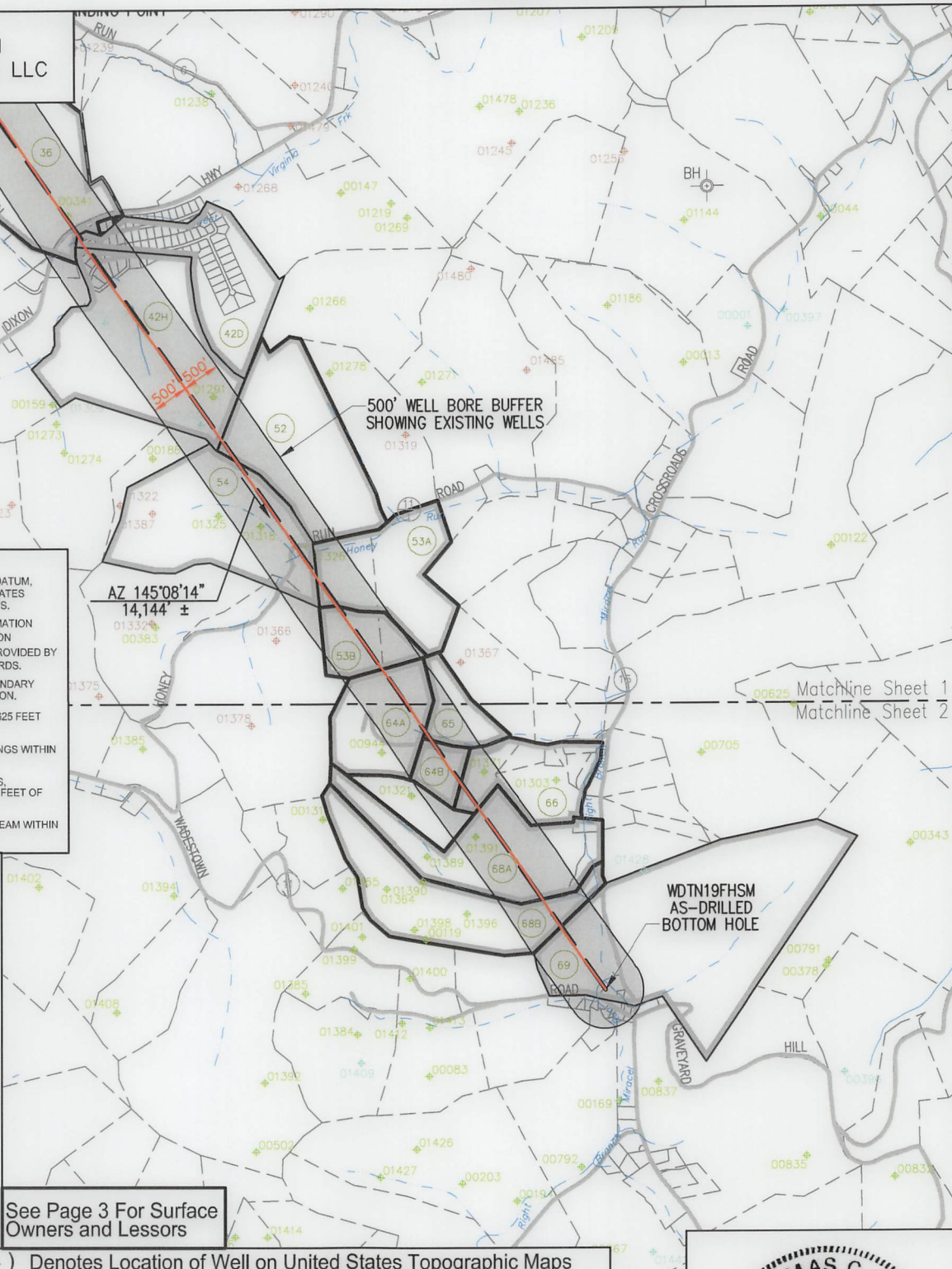
AS-DRILLED

WDTN19FHSM
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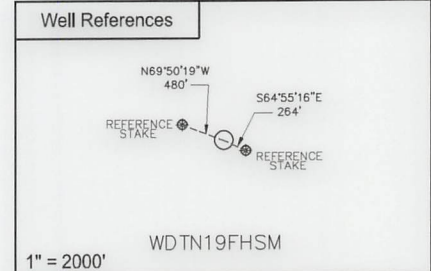
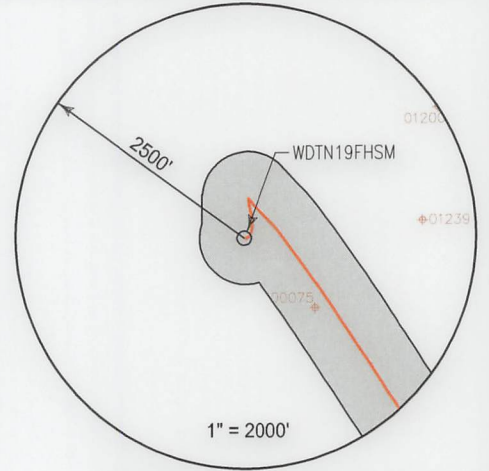
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Canonsburg, PA 15317 Canonsburg, PA 15317

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. Gonclaves, 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	

TRACT ID	SURFACE OWNER	LESSOR	PIN
2	CNX Gas Company LLC	Three Rivers Royalty, II, LLC	1-8-9
		Jack T. Livengood and Mary Jo Livengood	
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		Kathryn Rew Becker and Michael Compton	



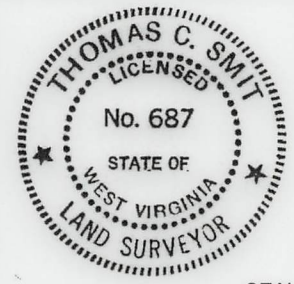
SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393932.801	
E: 556995.790	
NAD 83, WV NORTH	
N: 435741.7572	
E: 1733466.5033	
LAT/LON DATUM NAD 83	
LAT: 39°41'36.0165"	
LON: 80°20'06.9136"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393779.671	
E: 557236.522	
NAD 83, WV NORTH	
N: 435226.0833	
E: 1734248.035	
LAT/LON DATUM NAD 83	
LAT: 39°41'30.992"	
LON: 80°19'56.855"	

WDTN19 WELL PAD		BOTTOM HOLE LOCATION (BHL)	
○ WDN19EHSM		UTM 17 NAD 83	
○ WDN19DHSM		N: 4390285.744	
○ WDN19BHSM		E: 559758.101	
○ WDN19CHSM		NAD 83, WV NORTH	
○ WDN19FHSM		N: 423623.027	
○ WDN19AHSM		E: 1742330.700	
		LAT/LON DATUM NAD 83	
		LAT: 39°39'37.045"	
		LON: 80°18'12.129"	



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TRACT ID	SURFACE OWNER	LESSOR	PIN
36	George D. Six, et al	William B. Richardson	1-8-11 1-8-11.1 1-13-24 1-13-25 1-13B-81 1-13B-85 1-13B-86 1-13B-87
		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.	
42D	CNX RCPC LLC, et al	Norman Core, Gregory Shriver, and Francis M. Bland, Trustees of West Warren Baptist Church	1-13B-16 THROUGH 1-13B-45 1-13B-57 THROUGH 1-13B-70 1-13-24 1-13-25
		William B. Richardson 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.	
42H	CNX RCPC LLC, et al	Norman Core, Gregory Shriver, and Francis M. Bland, Trustees of West Warren Baptist Church	1-13-24 1-13-25 1-13B-41 THROUGH 1-13B-54
		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.	
52	Hampton D. Cottrell	Dorothy Cross	1-13-31.1
		James Tolbert and Sue E. Tolbert, h/w Emerson Cross and Mary Louise Cross, h/w Richard Cross and Shirley A. Cross David W. Tolbert Danny Tolbert, Jr a/k/a Danny G. Tolbert, Jr., Ferguson Cherri Sellers and Warren Sellers, h/w Hampton Cottrell and Mary M. Cottrell, h/w 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.	
53A	Randy Hennen	Randy A. Hennen, a/k/a Randy Hennen, unmarried	1-13-30 1-13-30.1
		John E. Kime, a widower	
53B	Randy Hennen	Randy A. Hennen, a/k/a Randy Hennen, unmarried	1-13-30 1-13-30.1
		John E. Kime, a widower	
54	Jacqueline Carol Cowell	Ginger L. Brookover	1-13-27
		Douglas Haught Keith Haught Michael Haught Jacqueline Carol Cowell, widow	
64A	Eric Dale Chisler	John Marvin Douthat and Edith Anette Douthat	1-13-29
		Amy Mowrey and Greg L. Mowrey Robert L. Fordyce and Lynda Fordyce Kevin Davis T. Charles Truscott Barbara Ann Renfroe and Travis L. Renfroe William A. Douthat Virginia Sibley Walker, by Bryan Adris Robison, II, as her Agent Jean T. Eberly, f/k/a Jean Craig Eberly Janis L. Truscott Mary Gray Walker Virginia May Oliveto and Joseph F. Oliveto Margaret M. Collins and Vincent A. Collins Kelly Ann King Boggia f/k/a Kelly King and Michael J. Boggia, w/h	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		Richard R. Morris and Robin T. Morris	
		John H. Morris, Jr. and Susan H. Morris	
		Harold C. Moore and Darlene E. Moore	
		Helen Fox	
		Holly Swartz and Jeff N. Swartz	
		Steven T. Truscott and Carol A. Truscott	
		Lawrence P. Scarnecchia and Christine Lynn Scarnecchia	
		Samuel L. Scarnecchia and Tami J. Scarnecchia	
		Vera K. Hoskinson, f/k/a Vera Matthews and Ronald L. Hoskinson	
		Krystal Tarkenton and Brian J. Tarkenton, w/h	
		Toni Ann Swoyer and David W. Swoyer	
		JoAnn Barzanti and Terry W. Barzanti	
		Lawrence Morris and Danneal Morris	
		Lenard Paul Fordyce	
		Brian Fox and Lisa D. Fox	
		Hartzell D. Fordyce and Mary A. Fordyce	
		Clydie Ray Fordyce and Connie Lou Fordyce	
		Shirley Cain and Victor F. Cain	
		Carolyn J. Butts, f/k/a Carolyn Fordyce and Bernard E. Butts	
		Gareald Fordyce and Carol L. Fordyce	
		Thomas M. Truscott and Nancy P. Truscott	
		Floriene Dulaney and Danny J. Dulaney	
		Anna P. Carpenter f/k/a Anna Pearl Efaw and Kenneth E. Carpenter	
		William J. Taylor	
		Margaret Kovalcheck	
		Cecilia J. Reynolds and John E. Reynolds	
		Richard Calvin Fordyce	
		Patricia A. Lemley and Ronald G. Lemley	
		Clarence C. David and Patricia Davis	
		Leanna Bosley	
		Peggy Catherine Mcl, a/k/a Peggy Fox Mcl	
		Liane M. Culver	
		Curtis Earl Fordyce	
		Janet C. Johnson and Richard B. Johnson	
		James Russell Cornelius and Julie K. O'Brien	
		Ralph Parks Cornelius and Laura D. Corneliu	
		William Terrell Cornelius	
		Keith Alltucker	
		Scott Mick	
		Shirley Cornelius Hipp and Richard A. Hipp	
		Janet Casteel and Donald L. Casteel	
		Louis Frederick Morris and Carol L. Morris	
		Debra Lough a/k/a Deborah M. Lough	
		Joann Coffman and Darrel L. Coffman	
		Judith Lynn Hawkins and John F. Hawkins	
		Kevin Mick and Linda K. Mick, h/w	
		Barbara F. Roberts	
		Marsha J. Newton	
		Suzanne M. Switalski and Dale R. Switalski	
		Kimberly S. Fox and John J. Gula	
		Scott B. Roberts and M. Teresa Roberts	
		Sara Katherin Van Gilder, a/k/a Kathy Van Gilder	
		Donald L. Lockhart and Diane M. Lockhart, h/w	
		Alvin Mick	
		Nodena Sloan	
		Brad Lee Miller	
		Dennis R. Roberts and Barbara R. Roberts	
		Eric S. Sowden	
		Larry P. Sowden	
		Walter Lloyd Rinehart	
		Robert Leo Fordyce	
		Jeffrey Harman and Janet Harman	
		Rosalie Leanne Martin	
		David S. Sowden, Jr.	
		Steven M. Anders and Diane M. Anders	
		Brandy Conner	
		Nancy Dean Holt and Gary K. Holt	
		Jeri Lee Mullins	
		Rebecca Ann Gonczy	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		Tonya D. Bering	
		James C. W. White	
		Steve A. Konya	
		John L. Harman and Kathleen F. Harman	
		Peter Love	
		David R. Sturgiss, Jr.	
		Sally Warrington	
		Joseph Johnston	
		Susan Gawdyda, f/k/a Susan L. Jackson	
		Lydia Darlene Janson, a/k/a Darlene Janson	
		Mary C. Roy	
		Revis D. Johnston and Llanda Johnston, h/w	
		Verneda C. King, by Sandra L. Ruhl, Attorney-in-Fact	
		Richard L. Carlson	
		Angela Denise Fulton	
		Junior Lee Fordyce	
		Michael C. Fluharty and Kathryn A. Fluharty	
		Wanda Faye Blaney	
		Roberta L. King-Crapo	
		Daniel O. Toothman	
		Katherine A. Kulish, f/k/a Katherine A. Webb Fordyce	
		Carol Yvonne Jones, single, f/k/a Carol Yvonne Campbell	
		D'Amico	
		Paul J. Oates	
		Wendell Wayne Knight	
		Lisa Jo Barnette	
		Leonard R. Oates, Jr.	
		Eric B. Oates	
		Aida M. Everhart, a/k/a Ida M. Everhart	
		James V. Hall, Sr.	
		Nancy J. Bock	
		Peter A. Nicoletti and Joetta K. Nicoletti	
		Lisa Dawn Lucas	
		Kelly Dale Knight	
		Kevin W. Alltucker	
		Valerie Hayes and Richard A. Hayes	
		Bryan Carter	
		Renee Rutter	
		Irene Harvey	
		Kip Foster Knight	
		Eric Dale Chisler and Cassandra Ann Chisler	
		Carol J. Freeze	
		Ashlee N. White	
		Shuman Inc.	
		Janet Sue Beveridge	
		Jerri Doreen Richards	
		Debra N. Straight	
		Cynthia H. Jones, f/k/a Cynthia H. Carpenter	
		Dennis L. Efaw	
		Beth Sanders	
		Douglas K. Efaw	
		Ruth Brady	
		Gary D. Harker	
		Beverly Workman	
		Velma Luttrell	
		Crystal A. Brennan	
		Suzanne Jean Pace	
		Marvin M. Carter	
		Mary Ruth Efaw	
		Marjorie Efaw	
		Jean Karstetter a/k/a Jeanne Karstetter	
		Andrea McDaniel	
		Edward Garner	
		Dailor Fox	
		Adam Carpenter	
		Alcinda Jean Sanders	
		Amelia Jacques Fluharty	
		Anita C. Mire	
		Ashley Ice	
		Autumn Gissinger	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		Barry Miller	
		Becca Sanders	
		Becky Newman	
		Betty Jean Huffman	
		Billy Haddix	
		Darlene Bonnie Martin	
		Brenda Price	
		Bruce Miller	
		Carol Jean Mendicino	
		Christopher Allen Harbert	
		Corrine Parker Bates	
		Cynthia Denise Schum	
		Daniel Jason Widen	
		Darren Sloan	
		Diane Santana	
		Dottie Lou Maltarich, f/k/a Dottie Lou Lowery, f/k/a Dottie Lou Fordyce	
		Ethel Elizabeth Snider	
		Eugene Amos Holland II	
		Fred Fordyce	
		Greg Anders	
		Heather Obleada	
		Janet Cernuska	
		Jeremy Jamison	
		Jo Billy Fluharty	
		Joanne Girard	
		Jody Ice	
		John W. Hawkins	
		Kathy Locke	
		Larry L. Eddy	
		Lawrence Lee Hayes	
		Levi Sanders	
		Linda Junice Jamison	
		Michael J. Alltucker	
		Mike Haddix	
		Miranda Jamison	
		Nancy Berkheiser	
		Nathan White	
		Pamela Erickson	
		Patricia Williamson	
		Patricia Stentz	
		Paul Reed Anders	
		Paul Ice	
		Paul Harn	
		Paula Wukovich	
		Paula Eddy	
		Peggy Perkins	
		Rachel Elizabeth Campbell	
		Rachael Jamison	
		Raemon Earl Everhart	
		Ralph H. King	
		Rebecca Smith	
		Scott V. Alltucker	
		Sharon L. Smith	
		Sharon Gailey	
		Sharon McCluskey	
		Sharon Rose Romanowski	
		Shirley Yoho	
		Stanton Sloan	
		Susan Jean Bering	
		Susan Lynn Burcham	
		Terry White	
		Troy Bilick	
		Virgil Lee Connors	
		William S. Reed	
		Mark Shane Ice	
		Mark Lane Hayes, Sr.	
		Mary Rebecca Jamison	
		Mathew Jamison	
		Matthew Sloan	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		Stephen Carter	
		Ernest Ray Connors	
		Rhonda K. Streets	
		Lonnie Irvin Howard	
		Martha D. King	
		Margaret Underwood	
		Mary Francis Murphy Warren	
		Kenneth Murphy	
		David C. Sloan	
		Owen White, Jr.	
		Mary Sue (Suzanna) White Wirth	
		Marilyn B. Thorpe	
TRACT ID	SURFACE OWNER	LESSOR	PIN
64B	Eric Dale Chisler	John Marvin Douthat and Edith Anette Douthat	1-13-29
		Amy Mowrey and Greg L. Mowrey	
		Robert L. Fordyce and Lynda Fordyce	
		Kevin Davis	
		T. Charles Truscott	
		Barbara Ann Renfroe and Travis L. Renfroe	
		William A. Douthat	
		Virginia Sibley Walker, by Bryan Adris Robison, II, as her Agent	
		Jean T. Eberly, f/k/a Jean Craig Eberly	
		Janis L. Truscott	
		Mary Gray Walker	
		Virginia May Oliveto and Joseph F. Oliveto	
		Margaret M. Collins and Vincent A. Collins	
		Kelly Ann King Boggia f/k/a Kelly King and Michael J. Boggia, w/h	
		Richard R. Morris and Robin T. Morris	
		John H. Morris, Jr. and Susan H. Morris	
		Harold C. Moore and Darlene E. Moore	
		Helen Fox	
		Holly Swartz and Jeff N. Swartz	
		Steven T. Truscott and Carol A. Truscott	
		Lawrence P. Scarnecchia and Christine Lynn Scarnecchia	
		Samuel L. Scarnecchia and Tami J. Scarnecchia	
		Vera K. Hoskinson, f/k/a Vera Matthews and Ronald L. Hoskinson	
		Krystal Tarkenton and Brian J. Tarkenton, w/h	
		Toni Ann Swoyer and David W. Swoyer	
		JoAnn Barzanti and Terry W. Barzanti	
		Lawrence Morris and Danneal Morris	
		Lenard Paul Fordyce	
		Brian Fox and Lisa D. Fox	
		Hartzell D. Fordyce and Mary A. Fordyce	
		Clydie Ray Fordyce and Connie Lou Fordyce	
		Shirley Cain and Victor F. Cain	
		Carolyn J. Butts, f/k/a Carolyn Fordyce and Bernard E. Butts	
		Gareald Fordyce and Carol L. Fordyce	
		Thomas M. Truscott and Nancy P. Truscott	
		Floriene Dulaney and Danny J. Dulaney	
		Anna P. Carpenter f/k/a Anna Pearl Efav and Kenneth E. Carpenter	
		William J. Taylor	
		Margaret Kovalcheck	
		Cecilia J. Reynolds and John E. Reynolds	
		Richard Calvin Fordyce	
		Patricia A. Lemley and Ronald G. Lemley	
		Clarence C. David and Patricia Davis	
		Leanna Bosley	
		Peggy Catherine Mcle, a/k/a Peggy Fox Mcle	
		Liane M. Culver	
		Curtis Earl Fordyce	
		Janet C. Johnson and Richard B. Johnson	
		James Russell Cornelius and Julie K. O'Brien	
		Ralph Parks Cornelius and Laura D. Corneliu	
		William Terrell Cornelius	
		Keith Alltucker	
		Scott Mick	
		Shirley Cornelius Hipp and Richard A. Hipp	
		Janet Casteel and Donald L. Casteel	
		Louis Frederick Morris and Carol L. Morris	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		Debra Lough a/k/a Deborah M. Lough	
		Joann Coffman and Darrel L. Coffman	
		Judith Lynn Hawkins and John F. Hawkins	
		Kevin Mick and Linda K. Mick, h/w	
		Barbara F. Roberts	
		Marsha J. Newton	
		Suzanne M. Switalski and Dale R. Switalski	
		Kimberly S. Fox and John J. Gula	
		Scott B. Roberts and M. Teresa Roberts	
		Sara Katherin Van Gilder, a/k/a Kathy Van Gilder	
		Donald L. Lockhart and Diane M. Lockhart, h/w	
		Alvin Mick	
		Nodena Sloan	
		Brad Lee Miller	
		Dennis R. Roberts and Barbara R. Roberts	
		Eric S. Sowden	
		Larry P. Sowden	
		Walter Lloyd Rinehart	
		Robert Leo Fordyce	
		Jeffrey Harman and Janet Harman	
		Rosalie Leanne Martin	
		David S. Sowden, Jr.	
		Steven M. Anders and Diane M. Anders	
		Brandy Conner	
		Nancy Dean Holt and Gary K. Holt	
		Jeri Lee Mullins	
		Rebecca Ann Gonczy	
		Tonya D. Bering	
		James C. W. White	
		Steve A. Konya	
		John L. Harman and Kathleen F. Harman	
		Peter Love	
		David R. Sturgiss, Jr.	
		Sally Warrington	
		Joseph Johnston	
		Susan Gawdyda, f/k/a Susan L. Jackson	
		Lydia Darlene Janson, a/k/a Darlene Janson	
		Mary C. Roy	
		Revis D. Johnston and Llanda Johnston, h/w	
		Verneda C. King, by Sandra L. Ruhl, Attorney-in-Fact	
		Richard L. Carlson	
		Angela Denise Fulton	
		Junior Lee Fordyce	
		Michael C. Fluharty and Kathryn A. Fluharty	
		Wanda Faye Blaney	
		Roberta L. King-Crapo	
		Daniel O. Toothman	
		Katherine A. Kulish, f/k/a Katherine A. Webb Fordyce	
		Carol Yvonne Jones, single, f/k/a Carol Yvonne Campbell	
		D'Amico	
		Paul J. Oates	
		Wendell Wayne Knight	
		Lisa Jo Barnette	
		Leonard R. Oates, Jr.	
		Eric B. Oates	
		Aida M. Everhart, a/k/a Ida M. Everhart	
		James V. Hall, Sr.	
		Nancy J. Bock	
		Peter A. Nicoletti and Joetta K. Nicoletti	
		Lisa Dawn Lucas	
		Kelly Dale Knight	
		Kevin W. Alltucker	
		Valerie Hayes and Richard A. Hayes	
		Bryan Carter	
		Renee Rutter	
		Irene Harvey	
		Kip Foster Knight	
		Eric Dale Chisler and Cassandra Ann Chisler	
		Carol J. Freeze	
		Ashlee N. White	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		Shuman Inc.	
		Janet Sue Beveridge	
		Jerri Doreen Richards	
		Debra N. Straight	
		Cynthia H. Jones, f/k/a Cynthia H. Carpenter	
		Dennis L. Efaw	
		Beth Sanders	
		Douglas K. Efaw	
		Ruth Brady	
		Gary D. Harker	
		Beverly Workman	
		Velma Luttrell	
		Crystal A. Brennan	
		Suzanne Jean Pace	
		Marvin M. Carter	
		Mary Ruth Efaw	
		Marjorie Efaw	
		Jean Karstetter a/k/a Jeanne Karstetter	
		Andrea McDaniel	
		Edward Garner	
		Dailor Fox	
		Adam Carpenter	
		Alcinda Jean Sanders	
		Amelia Jacques Fluharty	
		Anita C. Mire	
		Ashley Ice	
		Autumn Gissinger	
		Barry Miller	
		Becca Sanders	
		Becky Newman	
		Betty Jean Huffman	
		Billy Haddix	
		Darlene Bonnie Martin	
		Brenda Price	
		Bruce Miller	
		Carol Jean Mendicino	
		Christopher Allen Harbert	
		Corrine Parker Bates	
		Cynthia Denise Schum	
		Daniel Jason Widen	
		Darren Sloan	
		Diane Santana	
		Dottie Lou Maltarich, f/k/a Dottie Lou Lowery, f/k/a Dottie Lou Fordyce	
		Ethel Elizabeth Snider	
		Eugene Amos Holland II	
		Fred Fordyce	
		Greg Anders	
		Heather Obleada	
		Janet Cernuska	
		Jeremy Jamison	
		Jo Billy Fluharty	
		Joanne Girard	
		Jody Ice	
		John W. Hawkins	
		Kathy Locke	
		Larry L. Eddy	
		Lawrence Lee Hayes	
		Levi Sanders	
		Linda Junice Jamison	
		Michael J. Alltucker	
		Mike Haddix	
		Miranda Jamison	
		Nancy Berkheiser	
		Nathan White	
		Pamela Erickson	
		Patricia Williamson	
		Patricia Stentz	
		Paul Reed Anders	
		Paul Ice	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		Paul Harn	
		Paula Wukovich	
		Paula Eddy	
		Peggy Perkins	
		Rachel Elizabeth Campbell	
		Rachael Jamison	
		Raemon Earl Everhart	
		Ralph H. King	
		Rebecca Smith	
		Scott V. Alltucker	
		Sharon L. Smith	
		Sharon Gailey	
		Sharon McCluskey	
		Sharon Rose Romanowski	
		Shirley Yoho	
		Stanton Sloan	
		Susan Jean Bering	
		Susan Lynn Burcham	
		Terry White	
		Troy Bilick	
		Virgil Lee Connors	
		William S. Reed	
		Mark Shane Ice	
		Mark Lane Hayes, Sr.	
		Mary Rebecca Jamison	
		Mathew Jamison	
		Matthew Sloan	
		Stephen Carter	
		Ernest Ray Connors	
		Rhonda K. Streets	
		Lonnie Irvin Howard	
		Martha D. King	
		Margaret Underwood	
		Mary Francis Murphy Warren	
		Kenneth Murphy	
		David C. Sloan	
		Owen White, Jr.	
		Mary Sue (Suzanna) White Wirth	
		Marilyn B. Thorpe	
TRACT ID	SURFACE OWNER	LESSOR	PIN
65	Jackie W. Miller Jr.	Jackie W. Miller, Jr. and Carol Ann Miller, h/w	1-13-38
		CNG Producing Company	
		DominionExploration and Production, Inc.	
		Antero Resources Appalachian Corporation	
		DominionExploration and Production, Inc.	
		Consol Gas Company	
		CNX Gas Company LLC	
		Noble Energy, Inc.	
66	Eric Dale Chisler, et al	Paul E. Keener II, a married man	1-13-29
		Kimberly A. Keener, a married woman	1-13-40
			1-13-41
			1-13-41.1
			1-13-41.2
			1-13-42
			1-13-43
68A	Roy D. Chisler, et ux	Raymond P. Gaston, aka Ray Gaston, aka Ray Parish Gaston, and Pamela J. Gaston	1-18-9 1-18-10
		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	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		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	
		Wendy Dawn Lemley	
		Randall M. Spragg and Lisa M. Spragg, Co-Trustees under Revocable Trust Agreement of Randall M. Spragg, dated October 24, 2007	
		Toledo Animal Shelter	
		Roy Dale Chisler and Twyla Leah Chisler	
		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	
		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	
		Michael J. Eddy and Natilie A. Eddy, h/w	
		Northeast Natural Energy LLC	
		Waco Oil & Gas Co., Inc.; I.L. Morris, Mike Ross, Inc.; Mike Ross	
		XTO Energy Inc.	
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	

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
		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	
		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.	

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TRACT ID	SURFACE OWNER	LESSOR	PIN
69	Timothy Clovis, et ux, et al	Darrell W. Ringer, Deputy Commissioner of Delinquent and Nonentered Lands of Monongalia County, West Virginia	1-17-4 1-18-12 1-18-12.1 1-18-12.2 1-18-13
		Dominion Exploration and Production, Inc.	
		Consol Gas Company	
		Morris Mountaineer Oil and Gas LLC	
		The Sidney Austin Smith Trust, LLC	
		Ridgetop Appalachia LLC	
		JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	
		Terry O. Hendershot and Mary M. Hendershot, husband and wife	
		Helen M. Burton, a single woman	
		Ryan C. Radtka and Susan Renee Radtka, husband and wife	
		Northeast Natural Energy LLC	
		XTO Energy, Inc	

09/15/2023

ATTACHMENT 1: WDTN19FHSM 47-061-01904

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19FHSM	1	3/13/2023	22,785.79	22,883.00	24	Marcellus Shale
WDTN19FHSM	2	3/17/2023	22,604.79	22,727.00	32	Marcellus Shale
WDTN19FHSM	3	3/17/2023	22,444.79	22,567.00	32	Marcellus Shale
WDTN19FHSM	4	3/17/2023	22,284.79	22,407.00	32	Marcellus Shale
WDTN19FHSM	5	3/18/2023	22,124.79	22,247.00	32	Marcellus Shale
WDTN19FHSM	6	3/18/2023	21,964.79	22,087.00	32	Marcellus Shale
WDTN19FHSM	7	3/18/2023	21,804.79	21,927.00	32	Marcellus Shale
WDTN19FHSM	8	3/19/2023	21,644.79	21,767.00	32	Marcellus Shale
WDTN19FHSM	9	3/19/2023	21,484.79	21,607.00	32	Marcellus Shale
WDTN19FHSM	10	3/19/2023	21,324.79	21,447.00	32	Marcellus Shale
WDTN19FHSM	11	3/20/2023	21,164.79	21,287.00	32	Marcellus Shale
WDTN19FHSM	12	3/20/2023	21,004.79	21,127.00	32	Marcellus Shale
WDTN19FHSM	13	3/20/2023	20,844.79	20,967.00	32	Marcellus Shale
WDTN19FHSM	14	3/20/2023	20,684.79	20,807.00	32	Marcellus Shale
WDTN19FHSM	15	3/21/2023	20,524.79	20,647.00	32	Marcellus Shale
WDTN19FHSM	16	3/21/2023	20,364.79	20,487.00	32	Marcellus Shale
WDTN19FHSM	17	3/21/2023	20,204.79	20,327.00	32	Marcellus Shale
WDTN19FHSM	18	3/22/2023	20,044.79	20,167.00	32	Marcellus Shale
WDTN19FHSM	19	3/22/2023	19,884.79	20,007.00	32	Marcellus Shale
WDTN19FHSM	20	3/22/2023	19,724.79	19,847.00	40	Marcellus Shale
WDTN19FHSM	21	3/22/2023	19,564.79	19,687.00	40	Marcellus Shale
WDTN19FHSM	22	3/23/2023	19,404.79	19,527.00	40	Marcellus Shale
WDTN19FHSM	23	3/23/2023	19,244.79	19,367.00	40	Marcellus Shale
WDTN19FHSM	24	3/23/2023	19,084.79	19,207.00	40	Marcellus Shale
WDTN19FHSM	25	3/24/2023	18,924.79	19,047.00	40	Marcellus Shale
WDTN19FHSM	26	3/24/2023	18,764.79	18,887.00	40	Marcellus Shale
WDTN19FHSM	27	3/25/2023	18,604.79	18,727.00	40	Marcellus Shale
WDTN19FHSM	28	3/26/2023	18,444.79	18,567.00	40	Marcellus Shale
WDTN19FHSM	29	3/26/2023	18,284.79	18,407.00	40	Marcellus Shale
WDTN19FHSM	30	3/26/2023	18,124.79	18,247.00	40	Marcellus Shale
WDTN19FHSM	31	3/26/2023	17,964.79	18,087.00	40	Marcellus Shale
WDTN19FHSM	32	3/27/2023	17,804.79	17,927.00	40	Marcellus Shale
WDTN19FHSM	33	3/27/2023	17,644.79	17,767.00	40	Marcellus Shale
WDTN19FHSM	34	3/27/2023	17,484.79	17,607.00	40	Marcellus Shale
WDTN19FHSM	35	3/28/2023	17,324.79	17,447.00	40	Marcellus Shale
WDTN19FHSM	36	3/28/2023	17,164.79	17,287.00	40	Marcellus Shale
WDTN19FHSM	37	3/28/2023	17,004.79	17,127.00	40	Marcellus Shale
WDTN19FHSM	38	3/29/2023	16,844.79	16,967.00	40	Marcellus Shale
WDTN19FHSM	39	3/29/2023	16,684.79	16,807.00	40	Marcellus Shale
WDTN19FHSM	40	3/29/2023	16,524.79	16,647.00	40	Marcellus Shale
WDTN19FHSM	41	3/30/2023	16,364.79	16,487.00	40	Marcellus Shale
WDTN19FHSM	42	3/30/2023	16,204.79	16,327.00	40	Marcellus Shale
WDTN19FHSM	43	3/30/2023	16,044.79	16,167.00	40	Marcellus Shale
WDTN19FHSM	44	3/30/2023	15,884.79	16,007.00	40	Marcellus Shale
WDTN19FHSM	45	3/30/2023	15,724.79	15,847.00	40	Marcellus Shale
WDTN19FHSM	46	3/30/2023	15,564.79	15,687.00	40	Marcellus Shale

09/15/2023

ATTACHMENT 1: WDTN19FHSM 47-061-01904

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19FHSM	47	3/31/2023	14,284.79	14,447.00	40	Marcellus Shale
WDTN19FHSM	48	3/31/2023	14,084.79	14,247.00	40	Marcellus Shale
WDTN19FHSM	49	3/31/2023	13,884.79	14,047.00	40	Marcellus Shale
WDTN19FHSM	50	3/31/2023	13,684.79	13,847.00	40	Marcellus Shale
WDTN19FHSM	51	3/31/2023	13,484.79	13,647.00	40	Marcellus Shale
WDTN19FHSM	52	3/31/2023	13,284.79	13,447.00	40	Marcellus Shale
WDTN19FHSM	53	4/1/2023	13,084.79	13,247.00	40	Marcellus Shale
WDTN19FHSM	54	4/1/2023	12,884.79	13,047.00	40	Marcellus Shale
WDTN19FHSM	55	4/1/2023	12,684.79	12,847.00	40	Marcellus Shale
WDTN19FHSM	56	4/1/2023	12,484.79	12,647.00	40	Marcellus Shale
WDTN19FHSM	57	4/1/2023	12,284.79	12,447.00	40	Marcellus Shale
WDTN19FHSM	58	4/2/2023	12,084.79	12,247.00	40	Marcellus Shale
WDTN19FHSM	59	4/2/2023	11,884.79	12,047.00	40	Marcellus Shale
WDTN19FHSM	60	4/2/2023	11,684.79	11,847.00	40	Marcellus Shale
WDTN19FHSM	61	4/2/2023	11,484.79	11,647.00	40	Marcellus Shale
WDTN19FHSM	62	4/2/2023	11,284.79	11,447.00	40	Marcellus Shale
WDTN19FHSM	63	4/2/2023	11,084.79	11,247.00	40	Marcellus Shale
WDTN19FHSM	64	4/2/2023	10,884.79	11,047.00	40	Marcellus Shale
WDTN19FHSM	65	4/3/2023	10,684.79	10,847.00	40	Marcellus Shale
WDTN19FHSM	66	4/3/2023	10,484.79	10,647.00	40	Marcellus Shale
WDTN19FHSM	67	4/3/2023	10,284.79	10,447.00	40	Marcellus Shale
WDTN19FHSM	68	4/3/2023	10,084.79	10,247.00	40	Marcellus Shale
WDTN19FHSM	69	4/3/2023	9,884.79	10,047.00	40	Marcellus Shale
WDTN19FHSM	70	4/3/2023	9,684.79	9,846.80	40	Marcellus Shale
WDTN19FHSM	71	4/4/2023	9,484.79	9,646.80	40	Marcellus Shale
WDTN19FHSM	72	4/4/2023	9,284.79	9,446.80	40	Marcellus Shale
WDTN19FHSM	73	4/4/2023	9,084.79	9,246.80	40	Marcellus Shale
WDTN19FHSM	74	4/4/2023	8,884.79	9,046.80	40	Marcellus Shale
WDTN19FHSM	75	4/4/2023	8,683.89	8,846.70	40	Marcellus Shale
WDTN19FHSM	76	4/4/2023	8,482.89	8,645.70	40	Marcellus Shale
WDTN19FHSM	77	4/4/2023	8,281.89	8,444.70	40	Marcellus Shale

09/15/2023

ATTACHMENT 2: WDTN19FHSM 47-061-01904

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)
WDTN19FHSM	1	3/13/2023	90	10,919.00	7,823.00	5,123.00	304,225.70	6,724.98
WDTN19FHSM	2	3/17/2023	85	10,783.00	6,830.00	5,481.00	354,047.90	7,303.00
WDTN19FHSM	3	3/17/2023	91	11,189.00	7,205.00	5,631.00	354,565.90	6,799.95
WDTN19FHSM	4	3/18/2023	85	10,657.00	7,229.00	5,498.00	390,631.50	7,081.98
WDTN19FHSM	5	3/18/2023	86	10,967.00	8,124.00	5,927.00	383,381.70	6,539.98
WDTN19FHSM	6	3/18/2023	88	10,893.00	7,637.00	6,104.00	399,162.70	6,608.98
WDTN19FHSM	7	3/18/2023	89	11,017.00	7,961.00	5,484.00	388,029.20	6,546.07
WDTN19FHSM	8	3/19/2023	89	10,944.00	7,950.00	6,498.00	392,745.20	6,507.02
WDTN19FHSM	9	3/19/2023	89	10,984.00	7,791.00	5,851.00	386,627.50	6,473.95
WDTN19FHSM	10	3/20/2023	93	11,065.00	7,657.00	6,157.00	395,732.50	6,574.93
WDTN19FHSM	11	3/20/2023	93	10,887.00	7,127.00	6,551.00	393,597.20	6,506.02
WDTN19FHSM	12	3/20/2023	94	10,908.00	6,920.00	6,381.00	389,125.70	6,436.02
WDTN19FHSM	13	3/20/2023	90	11,091.00	8,009.00	6,505.00	359,576.70	6,271.95
WDTN19FHSM	14	3/21/2023	88	10,890.00	8,488.00	6,603.00	389,711.50	8,295.07
WDTN19FHSM	15	3/21/2023	94	10,791.00	6,979.00	6,073.00	389,229.70	6,459.02
WDTN19FHSM	16	3/21/2023	92	10,939.00	8,690.00	6,316.00	391,384.70	6,487.02
WDTN19FHSM	17	3/21/2023	96	11,041.00	8,685.00	6,378.00	374,251.10	6,390.98
WDTN19FHSM	18	3/22/2023	92	10,949.00	8,465.00	6,117.00	394,494.20	6,433.05
WDTN19FHSM	19	3/22/2023	95	11,037.00	7,742.00	6,454.00	387,615.80	6,386.95
WDTN19FHSM	20	3/22/2023	100	11,007.00	7,404.00	6,511.00	479,735.30	8,492.05
WDTN19FHSM	21	3/22/2023	98	11,070.00	7,852.00	5,768.00	477,099.70	7,735.00
WDTN19FHSM	22	3/23/2023	98	10,962.00	6,975.00	6,366.00	495,658.90	7,877.02
WDTN19FHSM	23	3/23/2023	100	10,945.00	6,707.00	6,305.00	475,216.50	7,814.00
WDTN19FHSM	24	3/24/2023	99	11,014.00	7,758.00	6,474.00	476,341.20	7,704.05
WDTN19FHSM	25	3/24/2023	99	10,711.00	7,574.00	5,757.00	480,816.30	7,719.98
WDTN19FHSM	26	3/24/2023	98	10,729.00	6,795.00	5,801.00	474,704.10	7,745.00
WDTN19FHSM	27	3/26/2023	96	10,629.00	6,670.00	5,554.00	484,367.00	7,724.98
WDTN19FHSM	28	3/26/2023	97	10,832.00	7,787.00	6,136.00	441,129.50	7,282.93
WDTN19FHSM	29	3/26/2023	98	10,804.00	7,764.00	6,273.00	479,789.50	7,513.98
WDTN19FHSM	30	3/26/2023	99	10,762.00	7,277.00	6,496.00	477,254.20	7,874.95
WDTN19FHSM	31	3/27/2023	99	10,809.00	7,269.00	6,553.00	456,963.90	7,568.95
WDTN19FHSM	32	3/27/2023	98	10,537.00	8,118.00	5,719.00	493,892.10	8,054.05
WDTN19FHSM	33	3/27/2023	99	10,665.00	8,198.00	6,252.00	501,796.20	8,065.93
WDTN19FHSM	34	3/27/2023	100	10,751.00	7,127.00	6,103.00	480,747.60	7,825.00
WDTN19FHSM	35	3/28/2023	94	9,931.00	6,009.00	6,072.00	455,068.50	7,642.00
WDTN19FHSM	36	3/28/2023	99	10,769.00	6,803.00	5,746.00	473,784.10	7,998.00
WDTN19FHSM	37	3/28/2023	99	10,609.00	7,355.00	6,288.00	480,980.30	8,017.00
WDTN19FHSM	38	3/29/2023	100	10,480.00	7,580.00	6,373.00	480,984.30	8,681.05
WDTN19FHSM	39	3/29/2023	100	10,522.00	7,562.00	6,385.00	478,072.10	8,062.00
WDTN19FHSM	40	3/29/2023	100	10,583.00	8,071.00	5,835.00	484,684.70	7,853.95
WDTN19FHSM	41	3/30/2023	99	10,666.00	6,560.00	6,400.00	477,037.50	7,712.00
WDTN19FHSM	42	3/30/2023	98	10,535.00	7,977.00	6,586.00	472,119.30	7,774.02
WDTN19FHSM	43	3/30/2023	99	10,628.00	8,036.00	6,148.00	481,159.90	7,722.93
WDTN19FHSM	44	3/30/2023	100	10,437.00	6,586.00	6,105.00	483,114.60	7,846.00

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ATTACHMENT 2: WDTN19FHSM 47-061-01904

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)
WDTN19FHSM	45	3/30/2023	100	10,419.00	7,718.00	6,311.00	486,722.70	7,710.02
WDTN19FHSM	46	3/30/2023	100	10,416.00	7,256.00	6,312.00	475,351.80	7,702.98
WDTN19FHSM	47	3/31/2023	101	10,510.00	7,545.00	6,428.00	474,610.10	7,722.07
WDTN19FHSM	48	3/31/2023	99	10,356.00	6,744.00	5,144.00	461,717.60	7,589.02
WDTN19FHSM	49	3/31/2023	100	10,425.00	6,611.00	5,379.00	498,814.40	7,883.02
WDTN19FHSM	50	3/31/2023	100	10,293.00	6,430.00	6,079.00	474,255.40	7,639.00
WDTN19FHSM	51	3/31/2023	100	10,287.00	7,084.00	6,174.00	476,535.00	7,658.00
WDTN19FHSM	52	4/1/2023	100	10,322.00	6,635.00	5,734.00	484,546.70	7,687.00
WDTN19FHSM	53	4/1/2023	101	10,434.00	7,787.00	5,665.00	483,259.90	7,707.98
WDTN19FHSM	54	4/1/2023	102	10,281.00	6,679.00	5,564.00	447,192.60	7,759.02
WDTN19FHSM	55	4/1/2023	101	10,044.00	6,596.00	5,718.00	494,052.30	7,657.02
WDTN19FHSM	56	4/1/2023	101	10,106.00	6,579.00	5,925.00	500,400.90	7,732.02
WDTN19FHSM	57	4/1/2023	101	10,095.00	6,984.00	5,718.00	480,625.80	7,660.05
WDTN19FHSM	58	4/2/2023	101	10,068.00	7,207.00	5,884.00	481,371.20	7,656.98
WDTN19FHSM	59	4/2/2023	101	9,887.00	8,063.00	6,460.00	487,138.30	7,597.98
WDTN19FHSM	60	4/2/2023	101	10,096.00	7,741.00	6,523.00	497,033.50	7,698.02
WDTN19FHSM	61	4/2/2023	101	9,987.00	6,847.00	6,892.00	484,316.50	7,569.98
WDTN19FHSM	62	4/2/2023	101	9,814.00	6,546.00	6,666.00	479,296.70	7,512.00
WDTN19FHSM	63	4/2/2023	101	9,641.00	7,480.00	6,463.00	475,479.00	7,500.00
WDTN19FHSM	64	4/2/2023	101	9,643.00	7,447.00	6,440.00	480,518.00	7,529.00
WDTN19FHSM	65	4/3/2023	102	9,728.00	7,989.00	6,671.00	470,864.90	7,560.02
WDTN19FHSM	66	4/3/2023	102	9,590.00	6,752.00	6,711.00	478,240.00	7,495.02
WDTN19FHSM	67	4/3/2023	102	9,802.00	6,566.00	6,455.00	487,474.00	7,476.05
WDTN19FHSM	68	4/3/2023	101	9,745.00	6,736.00	5,643.00	481,125.90	7,540.98
WDTN19FHSM	69	4/3/2023	101	9,850.00	7,351.00	5,229.00	477,476.40	7,525.02
WDTN19FHSM	70	4/4/2023	102	9,785.00	7,070.00	5,143.00	485,286.80	7,514.98
WDTN19FHSM	71	4/4/2023	100	10,075.00	6,923.00	5,178.00	462,906.50	7,315.02
WDTN19FHSM	72	4/4/2023	102	9,331.00	6,428.00	6,364.00	483,767.60	7,416.02
WDTN19FHSM	73	4/4/2023	103	9,393.00	6,558.00	4,568.00	486,358.00	7,450.98
WDTN19FHSM	74	4/4/2023	101	9,050.00	6,466.00	5,059.00	486,451.90	7,455.05
WDTN19FHSM	75	4/4/2023	101	9,126.00	6,620.00	5,409.00	468,385.70	7,341.07
WDTN19FHSM	76	4/4/2023	102	9,625.00	7,632.00	6,583.00	487,565.10	8,614.00

09/15/2023

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	1,873	1,781	1,873	GRAY SHALE / TRACES OF SILTSTONE
2nd Salt Sand	1,873	2,018	1,873	2,018	SANDSTONE
3rd Salt Sand	2,018	2,254	2,018	2,254	SANDSTONE
Big Lime	2,254	2,340	2,254	2,340	LIMESTONE
Big Injun Top	2,340	2,536	2,340	2,536	SANDSTONE
Big Injun Base	2,536	2,965	2,536	2,965	SILTSTONE
Gantz	2,965	3,018	2,965	3,018	SANDSTONE / SILTSTONE

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	3,018	3,112	3,018	3,112	SILTSTONE
50 Foot Sand	3,112	3,170	3,112	3,170	SANDSTONE / SILTSTONE
50 Foot Sand Base	3,170	3,206	3,170	3,206	SILTSTONE
30 Foot Sand	3,206	3,237	3,206	3,237	SANDSTONE
30 Foot Sand Base	3,237	3,273	3,237	3,273	SILTSTONE
Gordon Sand	3,273	3,345	3,273	3,345	SANDSTONE
Gordon Base	3,345	3,397	3,345	3,397	SILTSTONE
Fourth Sand	3,397	3,402	3,397	3,402	SANDSTONE
Fourth Sand Base	3,402	3,588	3,402	3,589	SILTSTONE
Fifth Sand	3,588	3,655	3,589	3,657	SANDSTONE
Fifth Sand Base	3,655	4,923	3,657	4,936	SILTSTONE
Bradford	4,923	5,611	4,936	5,630	SANDSTONE
Elk	5,611	5,942	5,630	5,963	SILTSTONE / GREY SHALE
2nd Elk	5,942	6,965	5,963	6,996	SILTSTONE / GREY SHALE
Rhinestreet	6,965	7,153	6,996	7,185	GREY SHALE
Cashaqua	7,153	7,389	7,185	7,426	GREY SHALE
Middlesex	7,389	7,461	7,426	7,502	GREY SHALE
West River	7,461	7,655	7,502	7,737	GREY SHALE
Burket Shale	7,655	7,686	7,737	7,780	GREY SHALE
Tully Limestone	7,686	7,728	7,780	7,843	LIMESTONE / GRAY SHALE
Hamilton Shale	7,728	7,867	7,843	8,166	GREY SHALE
Upper Marcellus	7,867	7,881	8,166	8,256	BLACK SHALE
Middle Marcellus	7,881	7,885	8,256	8,324	BLACK SHALE
Cherry Valley	7,885	7,885	8,324	8,490	LIMESTONE
Lower Middle Marcellus	7,885		8,490		BLACK SHALE
Onondaga Limestone					LIMESTONE

TD

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:	47-061-01904-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	WDTN19FHSM
Latitude:	39.69333800
Longitude:	-80.33525400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,974
Total Base Water Volume (gal):	24,157,266
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	85.06031	None
Sand	US Silica	Proppant					
			Crystalline Silica in the form of Quartz	14808-60-7	99.90000	14.69348	None
StimSTREAM 9800	CHEMSTREAM	Friction Reducer					
			Butene, homopolymer	9003-29-6	25.00000	0.02059	None
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.02059	None
			Ethoxylated alcohols	68213-23-0	3.00000	0.00247	None
HCL Acid (28%)	CHEMSTREAM	Acidizing					
			Hydrochloric Acid	7647-01-0	28.00000	0.03150	None
CoilSTREAM VB 625	CHEMSTREAM	Gelling Agent					
			Heavy Aliphatic Naphtha	64742-96-7	60.00000	0.00250	None
			Guar Gum	9000-30-0	50.00000	0.00208	None
			Trade Secret	9043-30-5	5.00000	0.00021	None
			Trade Secret	14808-60-7	3.00000	0.00012	None
			Trade Secret	1338-43-8	3.00000	0.00012	None
Clearal 268	CHEMSTREAM	Biocide					

			Glutaraldehyde	111-30-8	20.00000	0.00226	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00034	None
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00034	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	0.00025	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	0.00005	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	0.02059	
			Ethoxylated alcohols	68213-23-0	3.00000	0.00247	
			Guar Gum	9000-30-0	50.00000	0.00208	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00034	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00034	
			Trade Secret	9043-30-5	5.00000	0.00021	
			Trade Secret	14808-60-7	3.00000	0.00012	
			Trade Secret	1338-43-8	3.00000	0.00012	
			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	0.00005	
			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)