

JUN 27 2023
RECEIVED
Office of Oil and Gas

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

API 47-061-01902 County MONONGALIA District BATTELLE
Quad WADESTOWN Pad Name WDTN19 Field/Pool Name _____
Farm name CNX Gas Company LLC Well Number WDTN19CHSM
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 4393931.954 Easting 556989.755
Landing Point of Curve Northing 4393258.942 Easting 559429.845
Bottom Hole Northing 4389839.766 Easting 558959.997

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 11.22.2022
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 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:
[Signature]
09/15/2023

API 47-061 - 01902 Farm name CNX Gas Company LLC Well number WDTN19CHSM

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"	2,976'	NEW	J-55 36lb/ft	N/A	Y - CEMENT TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75" & 8.5"	5.5"	23,558'	NEW	P-110 23lb/ft	N/A	Y - TOC @ 2,096'
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	915	15.8	1.17	1,071	Surface	8
Coal							
Intermediate 1	HALCEM	975	15.8	1.15	1,121	Surface	8
Intermediate 2							
Intermediate 3							
Production	NEOCEM / NEOCEM	1,275(LEAD) / 3,660(TAIL)	15.0 / 15.0	1.13 (LEAD) / 1.12 (TAIL)	1,441(LEAD) / 4,099(TAIL)	2,096'	8
Tubing							

Drillers TD (ft) 23,578' Loggers TD (ft) 23,578'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7,688' (MD) 7,134' (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 other 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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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 - 01902 Farm name CNX Gas Company LLC Well number WDTN19CHSM

PRODUCING FORMATION(S)	DEPTHS		
<u>MARCELLUS</u>	<u>7,980'</u>	<u>TVD</u>	<u>14,320'</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 3,035.1 mcfpd Oil 0 bpd NGL 0 bpd Water 2,636 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

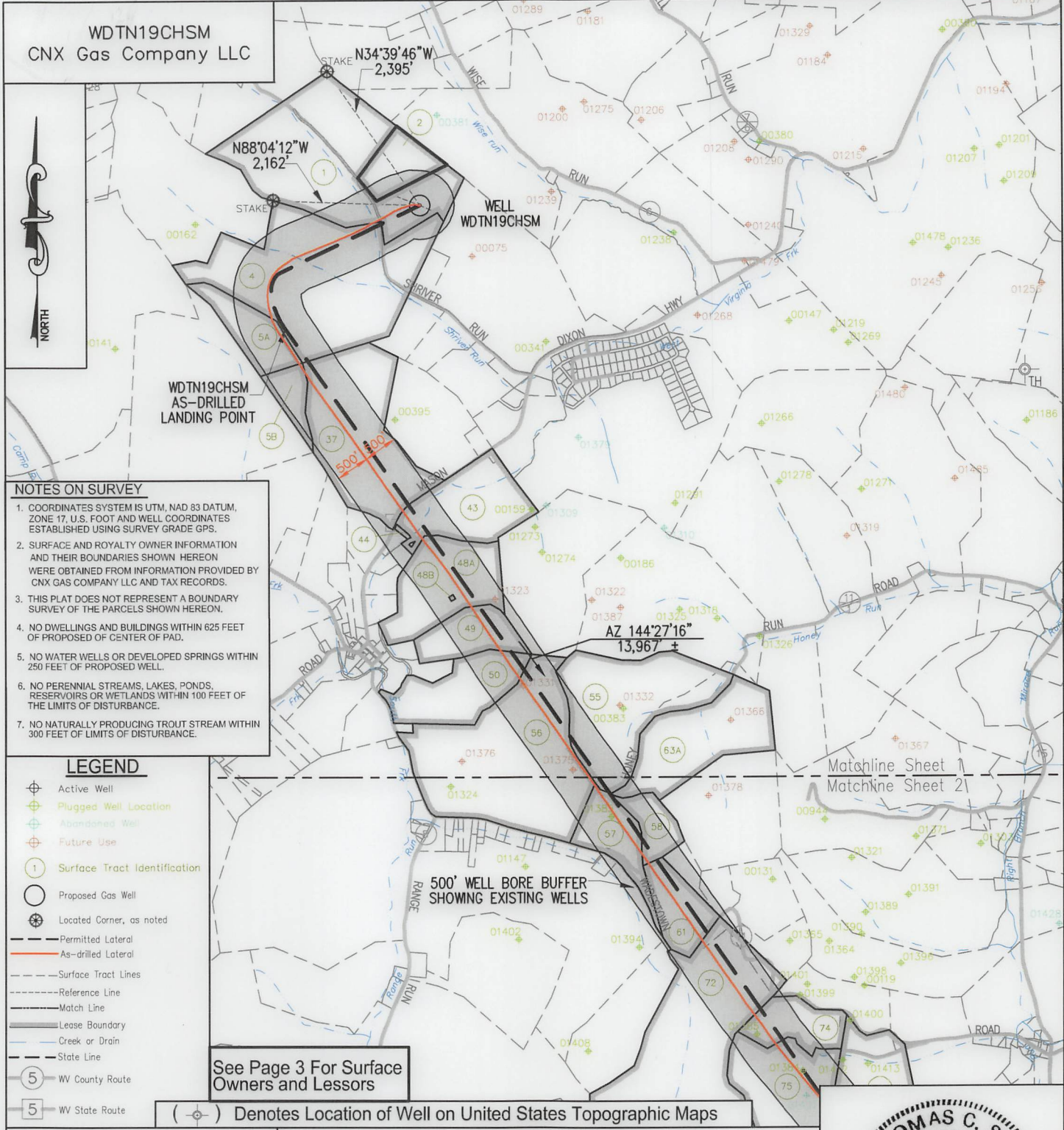
Stimulating Company EVOLUTION WELL SERVICES
Address 1780 HUGHES LANDING BLVD., SUITE 125 City THE WOODLANDS State TX Zip 77380

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



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



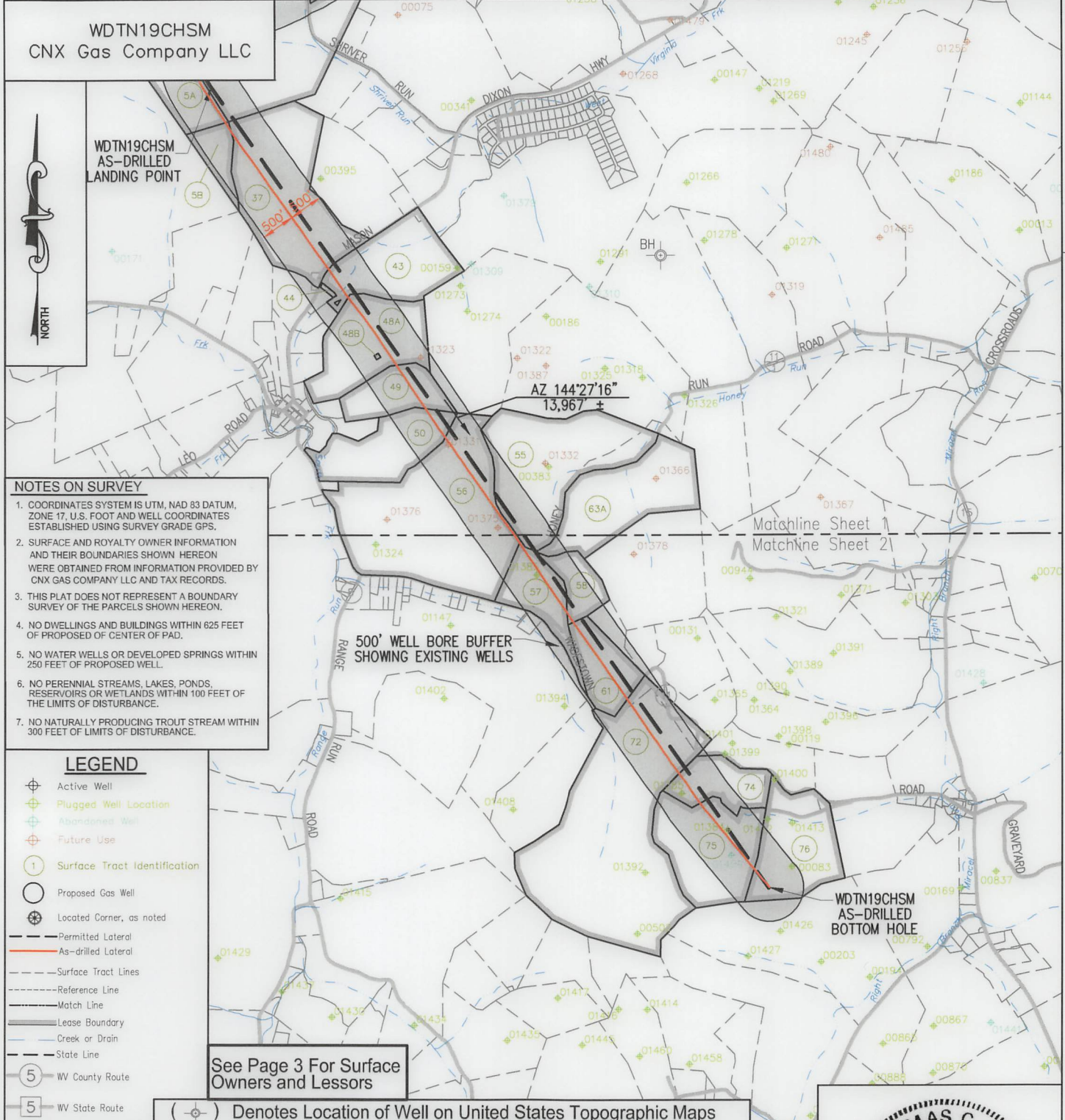
DATE: JUNE 08 20 23
OPERATORS WELL NO:
API WELL NO
47 - 061 - 01902
STATE COUNTY PERMIT

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'

09/15/2023

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



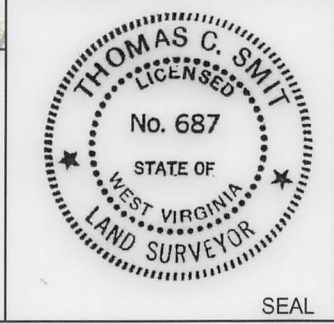
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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smit
L. L. S. 687

FILE NO: _____
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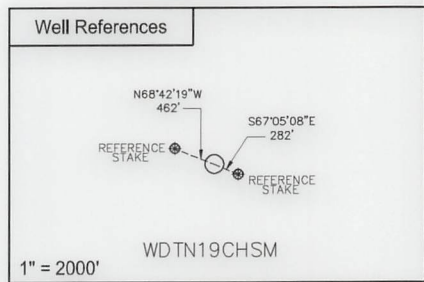
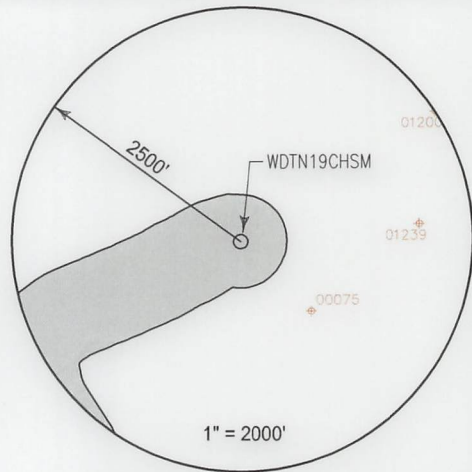
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 DISTRICT: Batelle COUNTY: Monongalia
 SURFACE OWNER: CNX Gas Company LLC ACREAGE: 96.91 ±
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 ADDRESS: 1000 Horizon Vue Drive ADDRESS: 1000 Horizon Vue Drive
 Canonsburg, PA 15317 Canonsburg, PA 15317

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. 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 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	
		Debra 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	
		Debra Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning	
		Kathryn Rew Becker and Michael Compton	



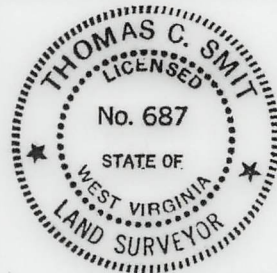
SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393931.954	
E: 556989.755	
NAD 83, WV NORTH	
N: 435739.305	
E: 1733446.654	
LAT/LON DATUM NAD 83	
LAT: 39°41'35.990"	
LON: 80°20'07.167"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393258.942	
E: 556429.845	
NAD 83, WV NORTH	
N: 433561.608	
E: 1731572.486	
LAT/LON DATUM NAD 83	
LAT: 39°41'14.295"	
LON: 80°20'30.882"	

WDTN19 WELL PAD	
○ WDN19EHSM	
○ WDN19DHSM ○ WDN19BHSM	
○ WDN19CHSM ○ WDN19FHSM	
○ WDN19AHSM ○ WDN19RHSM	
BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83	
N: 4389839.766	
E: 558959.997	
NAD 83, WV NORTH	
N: 422203.362	
E: 1739687.393	
LAT/LON DATUM NAD 83	
LAT: 39°39'22.780"	
LON: 80°18'45.764"	



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.

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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
5A	Ralph Six	Bounty Minerals LLC Bounty Minerals III Acquisitions LLC LOLA Drilling I, LLC Rice Drilling B, LLC	1-12-9
5B	Ralph Six	Clark Donley Stiles Phyllis Robison Thomas Sollars and Martha A. Sollars, husband and wife	1-12-9
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
43	Thomas W. Sanders	Thomas W. Sanders, a single man AMP IV, LP Clark Donley Stiles, a single man Thomas Sollars and Martha A. Sollars, husband and wife	1-13-21 1-13-21.1
48A	Clark Donley Stiles	Clark Donley Stiles Antero Resources Corporation AMP IV, LP Thomas Sollars and Martha A. Sollars, husband and wife	1-13-19
49	Clark Donley Stiles	Clark Donley Stiles Antero Resources Corporation	1-13-19
50	Daniel Altfather, et ux	Daniel Altfather and Sandra Barr Altfather, h/w	1-13-18.3
55	Jacqueline Carol Cowell	Ginger L. Brookover Douglas Haught Keith Haught Michael Haught Jacqueline Carol Cowell, widow	1-13-27
56	Donzell Walls, et al	Donzell Walls and Diana J. Walls, husband and wife CNG Producing Company Dominion Exploration & Production, Inc. Antero Resources Appalachian Corporation Dominion Exploration & Production, Inc. Consol Gas Company Kathryn Rew Becker and Michael Compton, wife and husband	1-13-13 1-13-17
57	Pearl Valley LLC	The Masonic Charity Foundation of Oklahoma f/k/a Most Worhipful Grand Lodge of Ancient Free and Accepted Masons of the State of Oklahoma Northeast Natural Energy LLC Pearl Valley LLC TH Exploration LLC William E. King and M. Cynthia Barnhart, Trustees of the John and Joann King Irrevocable Trust dated December 19, 2019	1-13-47

09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
58	Jacqueline Carol Cowell	The Masonic Charity Foundation of Oklahoma f/k/a Most Worshipful Grand Lodge of Ancient Free and Accepted Masons of the State of Oklahoma	1-13-28.1
		Northeast Natural Energy LLC	
		Michael Dean Eddy and Sandra Kay Eddy, husband and wife	
		William E. King and M. Cynthia Barnhart, Trustees of the John and Joann King Irrevocable Trust dated December 19, 2019	
61	Ronald Ray M. McClain, et al	Terrance Walter Mason and Joy L. Mason, his wife	1-18-4
		Debra Lynn Frazier and Bradley S. Frazier, her husband	
		Northeast Natural Energy LLC	
63A	Richard A. Bartolomew, et al	William G. and Betty J. Cross, his wife	1-13-28
		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.	
72	Michael W. Godby	EQT Production Company, Rice Drilling B, LLC	1-18 P/O 4 1-18-21
		Betty G. Mason, a widow	
		Margaret S. Ater and David A. Ater, wife and husband	
		Richard M. Snow	
		Robert A. Snow	
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	
75	Kent T. Saul, et ux	EQT Production Company and Rice Drilling B LLC	1-18-20
		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	
		Christopher Claunch	
		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	
		Northeast Natural Energy LLC	
		Marjorie J. Kroh	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Janet Shriver and Gary L. Shriver, h/w	
		Richard Tennant	
		Judith A. Ammons a/k/a Judy Ammons	
		Northeast Natural Energy LLC	

09/15/2023

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	

09/15/2023

ATTACHMENT 1: WDTN19CHSM 47-061-01902

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19CHSM	1	4/7/2023	23,440.10	23,535.00	24	Marcellus Shale
WDTN19CHSM	2	4/7/2023	23,259.10	23,381.00	32	Marcellus Shale
WDTN19CHSM	3	4/8/2023	23,099.10	23,221.00	32	Marcellus Shale
WDTN19CHSM	4	4/8/2023	22,939.10	23,061.00	32	Marcellus Shale
WDTN19CHSM	5	4/9/2023	22,779.10	22,901.00	32	Marcellus Shale
WDTN19CHSM	6	4/9/2023	22,619.10	22,741.00	32	Marcellus Shale
WDTN19CHSM	7	4/10/2023	22,459.10	22,581.00	32	Marcellus Shale
WDTN19CHSM	8	4/11/2023	22,299.10	22,421.00	32	Marcellus Shale
WDTN19CHSM	9	4/11/2023	22,139.10	22,261.00	32	Marcellus Shale
WDTN19CHSM	10	4/11/2023	21,979.10	22,101.00	32	Marcellus Shale
WDTN19CHSM	11	4/11/2023	21,819.10	21,941.00	32	Marcellus Shale
WDTN19CHSM	12	4/12/2023	21,659.10	21,781.00	32	Marcellus Shale
WDTN19CHSM	13	4/12/2023	21,499.10	21,621.00	32	Marcellus Shale
WDTN19CHSM	14	4/12/2023	21,339.10	21,461.00	32	Marcellus Shale
WDTN19CHSM	15	4/12/2023	21,179.10	21,301.00	32	Marcellus Shale
WDTN19CHSM	16	4/13/2023	21,019.10	21,141.00	32	Marcellus Shale
WDTN19CHSM	17	4/16/2023	20,859.10	20,981.00	32	Marcellus Shale
WDTN19CHSM	18	4/16/2023	20,699.10	20,821.00	32	Marcellus Shale
WDTN19CHSM	19	4/16/2023	20,539.10	20,661.00	32	Marcellus Shale
WDTN19CHSM	20	4/17/2023	20,379.10	20,501.00	32	Marcellus Shale
WDTN19CHSM	21	4/17/2023	20,219.10	20,341.00	32	Marcellus Shale
WDTN19CHSM	22	4/17/2023	20,059.10	20,181.00	32	Marcellus Shale
WDTN19CHSM	23	4/18/2023	19,899.10	20,021.00	32	Marcellus Shale
WDTN19CHSM	24	4/18/2023	19,699.10	19,861.00	40	Marcellus Shale
WDTN19CHSM	25	4/19/2023	19,499.10	19,661.00	40	Marcellus Shale
WDTN19CHSM	26	4/19/2023	19,299.10	19,461.00	40	Marcellus Shale
WDTN19CHSM	27	4/19/2023	19,099.10	19,261.00	40	Marcellus Shale
WDTN19CHSM	28	4/20/2023	18,899.10	19,061.00	40	Marcellus Shale
WDTN19CHSM	29	4/20/2023	18,699.10	18,861.00	40	Marcellus Shale
WDTN19CHSM	30	4/20/2023	18,499.10	18,661.00	40	Marcellus Shale
WDTN19CHSM	31	4/20/2023	18,299.10	18,461.00	40	Marcellus Shale
WDTN19CHSM	32	4/20/2023	18,099.10	18,261.00	40	Marcellus Shale
WDTN19CHSM	33	4/21/2023	17,899.10	18,061.00	40	Marcellus Shale
WDTN19CHSM	34	4/21/2023	17,699.10	17,861.00	40	Marcellus Shale
WDTN19CHSM	35	4/21/2023	17,499.10	17,661.00	40	Marcellus Shale
WDTN19CHSM	36	4/22/2023	17,299.10	17,461.00	40	Marcellus Shale
WDTN19CHSM	37	4/22/2023	17,099.10	17,261.00	40	Marcellus Shale
WDTN19CHSM	38	4/22/2023	16,899.10	17,061.00	40	Marcellus Shale
WDTN19CHSM	39	4/22/2023	16,699.10	16,861.00	40	Marcellus Shale
WDTN19CHSM	40	4/23/2023	16,499.10	16,661.00	40	Marcellus Shale
WDTN19CHSM	41	4/23/2023	16,299.10	16,461.00	40	Marcellus Shale
WDTN19CHSM	42	4/23/2023	16,099.10	16,261.00	40	Marcellus Shale
WDTN19CHSM	43	4/24/2023	15,899.10	16,061.00	40	Marcellus Shale
WDTN19CHSM	44	4/25/2023	15,699.10	15,861.00	40	Marcellus Shale
WDTN19CHSM	45	4/25/2023	15,499.10	15,661.00	40	Marcellus Shale
WDTN19CHSM	46	4/26/2023	15,299.10	15,461.00	40	Marcellus Shale

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ATTACHMENT 1: WDTN19CHSM 47-061-01902

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19CHSM	47	4/26/2023	15,099.10	15,261.00	40	Marcellus Shale
WDTN19CHSM	48	4/26/2023	14,899.10	15,061.00	40	Marcellus Shale
WDTN19CHSM	49	4/26/2023	14,699.10	14,861.00	40	Marcellus Shale
WDTN19CHSM	50	4/27/2023	14,499.10	14,661.00	40	Marcellus Shale
WDTN19CHSM	51	4/27/2023	14,299.10	14,461.00	40	Marcellus Shale
WDTN19CHSM	52	4/27/2023	14,099.10	14,261.00	40	Marcellus Shale
WDTN19CHSM	53	4/27/2023	13,899.10	14,061.00	40	Marcellus Shale
WDTN19CHSM	54	4/28/2023	13,699.10	13,861.00	40	Marcellus Shale
WDTN19CHSM	55	4/28/2023	13,499.10	13,661.00	40	Marcellus Shale
WDTN19CHSM	56	4/28/2023	13,299.10	13,461.00	40	Marcellus Shale
WDTN19CHSM	57	4/29/2023	13,099.10	13,261.00	40	Marcellus Shale
WDTN19CHSM	58	4/29/2023	12,899.10	13,061.00	40	Marcellus Shale
WDTN19CHSM	59	4/29/2023	12,699.10	12,861.00	40	Marcellus Shale
WDTN19CHSM	60	4/29/2023	12,499.10	12,661.00	40	Marcellus Shale
WDTN19CHSM	61	4/30/2023	12,299.10	12,461.00	40	Marcellus Shale
WDTN19CHSM	62	4/30/2023	12,099.10	12,261.00	40	Marcellus Shale
WDTN19CHSM	63	4/30/2023	11,899.10	12,061.00	40	Marcellus Shale
WDTN19CHSM	64	4/30/2023	11,698.20	11,861.00	40	Marcellus Shale
WDTN19CHSM	65	4/30/2023	11,497.20	11,660.00	40	Marcellus Shale
WDTN19CHSM	66	5/1/2023	11,296.20	11,459.00	40	Marcellus Shale
WDTN19CHSM	67	5/1/2023	11,095.20	11,258.00	40	Marcellus Shale
WDTN19CHSM	68	5/1/2023	10,894.20	11,057.00	40	Marcellus Shale
WDTN19CHSM	69	5/2/2023	10,693.20	10,856.00	40	Marcellus Shale
WDTN19CHSM	70	5/2/2023	10,492.20	10,655.00	40	Marcellus Shale
WDTN19CHSM	71	5/2/2023	10,291.20	10,454.00	40	Marcellus Shale
WDTN19CHSM	72	5/2/2023	10,090.20	10,253.00	40	Marcellus Shale
WDTN19CHSM	73	5/3/2023	9,889.20	10,052.00	40	Marcellus Shale
WDTN19CHSM	74	5/3/2023	9,688.20	9,851.00	40	Marcellus Shale
WDTN19CHSM	75	5/3/2023	9,487.20	9,650.00	40	Marcellus Shale
WDTN19CHSM	76	5/3/2023	9,286.20	9,449.00	40	Marcellus Shale
WDTN19CHSM	77	5/3/2023	9,085.20	9,248.00	40	Marcellus Shale

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ATTACHMENT 2: WDTN19CHSM 47-061-01902

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)
WDTN19CHSM	1	4/7/2023	85	11,108.00	9,694.00	5,693.00	366,255.40	7,073.02
WDTN19CHSM	2	4/7/2023	80	10,544.00	6,879.00	6,181.00	381,107.90	7,391.98
WDTN19CHSM	3	4/8/2023	82	10,965.00	7,370.00	6,250.00	395,595.50	7,585.98
WDTN19CHSM	4	4/8/2023	84	11,083.00	8,219.00	6,532.00	389,877.10	7,023.95
WDTN19CHSM	5	4/9/2023	86	11,043.00	8,046.00	5,783.00	385,468.00	6,946.02
WDTN19CHSM	6	4/10/2023	88	11,175.00	7,994.00	6,803.00	383,611.00	6,982.98
WDTN19CHSM	7	4/11/2023	86	11,264.00	8,015.00	6,020.00	415,489.80	6,960.00
WDTN19CHSM	8	4/11/2023	89	11,215.00	8,084.00	6,757.00	383,641.70	6,944.95
WDTN19CHSM	9	4/11/2023	82	10,847.00	7,770.00	5,213.00	380,647.20	6,906.00
WDTN19CHSM	10	4/11/2023	86	11,080.00	7,950.00	6,023.00	372,509.70	6,908.05
WDTN19CHSM	11	4/11/2023	89	11,102.00	7,012.00	5,942.00	373,674.40	6,907.55
WDTN19CHSM	12	4/12/2023	89	11,144.00	7,273.00	6,732.00	386,293.20	6,818.98
WDTN19CHSM	13	4/12/2023	80	10,453.00	7,943.00	5,761.00	355,225.80	8,643.00
WDTN19CHSM	14	4/12/2023	86	11,088.00	7,302.00	5,154.00	385,055.40	6,901.02
WDTN19CHSM	15	4/13/2023	87	11,055.00	8,239.00	6,513.00	380,679.60	6,856.98
WDTN19CHSM	16	4/15/2023	88	11,076.00	7,836.00	6,212.00	386,878.30	6,873.98
WDTN19CHSM	17	4/16/2023	88	11,108.00	7,513.00	5,521.00	404,131.80	6,805.07
WDTN19CHSM	18	4/16/2023	90	11,102.00	8,081.00	6,226.00	382,335.50	6,665.00
WDTN19CHSM	19	4/16/2023	87	11,088.00	7,792.00	6,389.00	373,125.20	6,669.98
WDTN19CHSM	20	4/17/2023	89	11,057.00	7,015.00	6,562.00	369,036.10	6,566.98
WDTN19CHSM	21	4/17/2023	87	10,854.00	7,622.00	6,213.00	387,651.10	6,838.00
WDTN19CHSM	22	4/17/2023	90	11,025.00	7,519.00	6,068.00	385,261.60	6,765.02
WDTN19CHSM	23	4/18/2023	83	10,959.00	7,808.00	6,115.00	386,670.60	10,170.95
WDTN19CHSM	24	4/18/2023	95	11,088.00	7,079.00	6,029.00	491,023.50	7,865.98
WDTN19CHSM	25	4/19/2023	94	11,219.00	6,580.00	6,090.00	478,564.80	7,770.02
WDTN19CHSM	26	4/19/2023	94	11,163.00	6,565.00	5,454.00	478,287.40	7,849.93
WDTN19CHSM	27	4/19/2023	94	11,209.00	6,568.00	5,653.00	367,098.00	7,750.02
WDTN19CHSM	28	4/20/2023	95	11,275.00	7,264.00	6,221.00	487,209.60	7,785.98
WDTN19CHSM	29	4/20/2023	94	11,288.00	8,013.00	6,119.00	488,621.20	7,860.07
WDTN19CHSM	30	4/20/2023	92	11,265.00	7,739.00	6,268.00	492,450.30	7,854.00
WDTN19CHSM	31	4/20/2023	90	11,219.00	7,844.00	6,248.00	493,970.40	7,813.95
WDTN19CHSM	32	4/21/2023	93	11,151.00	8,344.00	5,335.00	470,419.10	7,685.02
WDTN19CHSM	33	4/21/2023	94	11,038.00	7,578.00	5,525.00	484,909.20	7,685.98
WDTN19CHSM	34	4/21/2023	96	11,229.00	6,488.00	5,481.00	505,562.70	7,852.98
WDTN19CHSM	35	4/21/2023	96	11,127.00	7,303.00	5,910.00	476,997.60	7,689.98
WDTN19CHSM	36	4/22/2023	96	11,156.00	7,270.00	5,088.00	470,836.10	7,560.98
WDTN19CHSM	37	4/22/2023	96	10,798.00	6,680.00	5,685.00	471,213.40	7,540.90
WDTN19CHSM	38	4/22/2023	99	11,071.00	7,219.00	6,224.00	490,321.90	7,843.98
WDTN19CHSM	39	4/23/2023	97	11,082.00	8,568.00	6,370.00	484,623.70	7,730.95
WDTN19CHSM	40	4/23/2023	97	10,875.00	6,884.00	5,761.00	484,677.70	7,796.98
WDTN19CHSM	41	4/23/2023	97	11,022.00	7,281.00	5,614.00	484,412.70	7,748.95
WDTN19CHSM	42	4/24/2023	97	11,055.00	7,783.00	6,071.00	430,105.20	7,259.02
WDTN19CHSM	43	4/25/2023	99	10,932.00	6,798.00	6,365.00	470,009.50	7,492.98
WDTN19CHSM	44	4/25/2023	98	10,973.00	7,092.00	6,526.00	485,014.10	7,515.00

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ATTACHMENT 2: WDTN19CHSM 47-061-01902

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)
WDTN19CHSM	45	4/26/2023	99	10,948.00	8,034.00	6,178.00	468,017.80	7,452.02
WDTN19CHSM	46	4/26/2023	99	10,999.00	6,993.00	6,298.00	490,740.20	7,656.98
WDTN19CHSM	47	4/26/2023	98	11,002.00	6,864.00	6,184.00	486,181.70	7,556.00
WDTN19CHSM	48	4/26/2023	100	10,949.00	6,911.00	6,268.00	477,044.50	7,492.05
WDTN19CHSM	49	4/27/2023	100	10,913.00	7,148.00	6,607.00	470,765.80	7,488.00
WDTN19CHSM	50	4/27/2023	99	10,926.00	7,111.00	6,690.00	482,683.40	7,487.02
WDTN19CHSM	51	4/27/2023	97	10,959.00	7,607.00	6,665.00	489,441.20	7,531.00
WDTN19CHSM	52	4/27/2023	99	10,997.00	7,985.00	6,348.00	475,236.60	7,499.00
WDTN19CHSM	53	4/28/2023	99	10,867.00	8,040.00	6,112.00	475,773.60	7,252.00
WDTN19CHSM	54	4/28/2023	99	10,902.00	8,185.00	6,337.00	486,048.80	7,403.95
WDTN19CHSM	55	4/28/2023	100	10,901.00	7,038.00	6,138.00	478,744.70	7,443.00
WDTN19CHSM	56	4/29/2023	100	10,841.00	6,664.00	6,265.00	482,957.80	7,636.95
WDTN19CHSM	57	4/29/2023	100	10,724.00	7,175.00	6,190.00	494,874.50	7,307.00
WDTN19CHSM	58	4/29/2023	101	10,850.00	7,052.00	5,524.00	485,049.90	7,038.95
WDTN19CHSM	59	4/29/2023	101	10,592.00	6,861.00	5,363.00	491,542.00	7,246.00
WDTN19CHSM	60	4/30/2023	100	10,491.00	6,699.00	5,562.00	480,929.90	7,249.93
WDTN19CHSM	61	4/30/2023	101	10,304.00	6,994.00	5,320.00	480,584.10	7,157.05
WDTN19CHSM	62	4/30/2023	101	10,435.00	7,331.00	6,459.00	486,407.00	7,166.00
WDTN19CHSM	63	4/30/2023	101	10,460.00	7,014.00	6,584.00	485,706.00	7,327.02
WDTN19CHSM	64	4/30/2023	101	10,493.00	7,185.00	5,175.00	410,264.30	6,620.00
WDTN19CHSM	65	5/1/2023	101	10,131.00	7,882.00	5,722.00	488,298.60	7,254.00
WDTN19CHSM	66	5/1/2023	101	10,019.00	7,297.00	6,432.00	487,361.40	7,127.95
WDTN19CHSM	67	5/1/2023	102	10,261.00	8,087.00	6,093.00	485,070.60	7,281.00
WDTN19CHSM	68	5/2/2023	102	10,160.00	7,940.00	6,589.00	491,022.70	7,328.98
WDTN19CHSM	69	5/2/2023	102	10,108.00	7,247.00	6,254.00	486,537.90	7,244.02
WDTN19CHSM	70	5/2/2023	101	9,819.00	6,319.00	5,499.00	483,848.70	7,089.00
WDTN19CHSM	71	5/2/2023	101	9,703.00	7,179.00	6,225.00	476,518.30	7,019.00
WDTN19CHSM	72	5/2/2023	102	10,061.00	6,524.00	6,237.00	459,651.90	6,830.95
WDTN19CHSM	73	5/3/2023	102	9,538.00	7,002.00	5,979.00	482,423.40	7,025.95
WDTN19CHSM	74	5/3/2023	102	9,491.00	6,888.00	5,700.00	470,407.90	6,956.00
WDTN19CHSM	75	5/3/2023	102	9,530.00	6,351.00	5,637.00	488,739.20	7,061.02
WDTN19CHSM	76	5/3/2023	102	9,366.00	6,833.00	5,404.00	483,705.90	7,039.98
WDTN19CHSM	77	5/3/2023	101	9,245.00	7,173.00	5,640.00	425,567.50	6,379.00

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	1,877	1,781	1,877	GRAY SHALE / TRACES OF SILTSTONE
2nd Salt Sand	1,877	2,022	1,877	2,022	SANDSTONE
3rd Salt Sand	2,022	2,250	2,022	2,250	SANDSTONE
Big Lime	2,250	2,342	2,250	2,342	LIMESTONE
Big Injun Top	2,342	2,549	2,342	2,550	SANDSTONE
Big Injun Base	2,549	2,995	2,550	2,995	SILTSTONE
Gantz	2,995	3,019	2,995	3,020	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	3,019	3,115	3,020	3,115	SILTSTONE
50 Foot Sand	3,115	3,167	3,115	3,167	SANDSTONE / SILTSTONE
50 Foot Sand Base	3,167	3,199	3,167	3,199	SILTSTONE
30 Foot Sand	3,199	3,236	3,199	3,237	SANDSTONE
30 Foot Sand Base	3,236	3,270	3,237	3,270	SILTSTONE
Gordon Sand	3,270	3,342	3,270	3,343	SANDSTONE
Gordon Base	3,342	3,396	3,343	3,398	SILTSTONE
Fourth Sand	3,396	3,408	3,398	3,410	SANDSTONE
Fourth Sand Base	3,408	3,571	3,410	3,576	SILTSTONE
Fifth Sand	3,571	3,656	3,576	3,663	SANDSTONE
Fifth Sand Base	3,656	4,928	3,663	4,999	SILTSTONE
Bradford	4,928	5,628	4,999	5,821	SANDSTONE
Elk	5,628	5,854	5,821	6,095	SILTSTONE / GREY SHALE
2nd Elk	5,854	7,023	6,095	7,551	SILTSTONE / GREY SHALE
Rhinestreet	7,023	7,142	7,551	7,699	GREY SHALE
Cashaqua	7,142	7,371	7,699	8,049	GREY SHALE
Middlesex	7,371	7,454	8,049	8,191	GREY SHALE
West River	7,454	7,638	8,191	8,521	GREY SHALE
Burket Shale	7,638	7,666	8,521	8,576	GREY SHALE
Tully Limestone	7,666	7,702	8,576	8,647	LIMESTONE / GRAY SHALE
Hamilton Shale	7,702	7,832	8,647	9,038	GREY SHALE
Upper Marcellus	7,832	7,849	9,038	9,161	BLACK SHALE
Middle Marcellus	7,849	7,855	9,161	9,216	BLACK SHALE
Cherry Valley	7,855	7,870	9,216	10,134	LIMESTONE
Lower Middle Marcellus	7,870		10,134		BLACK SHALE
Onondaga Limestone					LIMESTONE

TD

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:	47-061-01902-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	WDTN19CHSM
Latitude:	39.69333100
Longitude:	-80.33532400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,980
Total Base Water Volume (gal):	23,652,174
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	84.93448	None
Sand	US Silica	Proppant					
			Crystalline Silica in the form of Quartz	14808-60-7	99.90000	14.81770	None
StimSTREAM 9800	CHEMSTREAM	Friction Reducer					
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.02199	None
			Butene, homopolymer	9003-29-6	25.00000	0.02199	None
			Ethoxylated alcohols	68213-23-0	3.00000	0.00264	None
HCL Acid (28%)	CHEMSTREAM	Acidizing					
			Hydrochloric Acid	7647-01-0	28.00000	0.03177	None
Clearal 268	CHEMSTREAM	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00218	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	0.00193	None
ACI-250	CHEMSTREAM	Acid corrosion inhibitor					
			Methanol	67-56-1	45.00000	0.00026	None
			Ethylene glycol	107-21-1	20.00000	0.00011	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	0.00039	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	0.02199	
			Ethoxylated alcohols	68213-23-0	3.00000	0.00264	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00033	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00033	
			Ethylene glycol	107-21-1	20.00000	0.00011	
			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	
			Guar Gum	9000-30-0	50.00000		
			Trade Secret	1338-43-8	3.00000		
			Trade Secret	9043-30-5	5.00000		
			Trade Secret	14808-60-7	3.00000		

* 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)