

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

WR-35
Rev. 8/23/13

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

API 47-061-01905 County MONONGALIA District BATTELLE
 Quad WADESTOWN Pad Name WDTN19 Field/Pool Name _____
 Farm name CNX GAS COMPANY LLC Well Number WDTN19RHSM
 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 4393926.766 Easting 556996.638
 Landing Point of Curve Northing 4393923.060 Easting 557317.645
 Bottom Hole Northing 4390024.212 Easting 560314.916

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

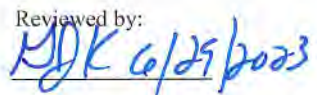
Mud Type(s) and Additive(s)
SYNTHETIC BASED FLUID
 ADDITIVES: ABS MUL (EMULSIFIER), CALCIUM CHLORIDE, FLR PLUS (GILSONITE), CLAYTONE EM (SUSPENSION AGENT), AES WA II (WETTING AGENT), LIME

Date permit issued 08.29.2022 Date drilling commenced 08.30.2022 (spud) Date drilling ceased 09.30.2022
 Date completion activities began 03.13.2023 Date completion activities ceased 04.03.2023
 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 N
 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:

 09/15/2023

API 47-061 - 01905 Farm name CNX GAS COMPANY LLC Well number WDTN19RHSM

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	24"	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"	24,662'	NEW	P-110 20lb/ft	N/A	Y - TOC @ 916'
Tubing							
Packer type and depth set		N/A					

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	910	15.8	1.17	1,065	Surface	8
Coal							
Intermediate 1	HALCEM	970	15.8	1.147	1,113	Surface	8
Intermediate 2							
Intermediate 3							
Production	NEOCEM / NEOCEM	1,105 (LEAD) / 4,115 (TAIL)	15.0 / 15.0	1.127 (LEAD) / 1.123 (TAIL)	1,245(LEAD) / 4,621(TAIL)	916'	8
Tubing							

Drillers TD (ft) 24,655' Loggers TD (ft) 24,655'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7,272 (MD) 7,215' (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; 14 placed
 INTERMEDIATE: Centralize every other joint from shoe to surface; 38 placed
 PRODUCTION: Centralize every joint from shoe to TOC; 565 placed

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.

API 47- 061 - 01905 Farm name CNX GAS COMPANY LLC Well number WDTN19RHSM

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>7,981'</u>	<u>TVD</u>	<u>11,481'</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 1,950 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 3,949.55 mcfpd Oil 0 bpd NGL 0 bpd Water 1,082 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

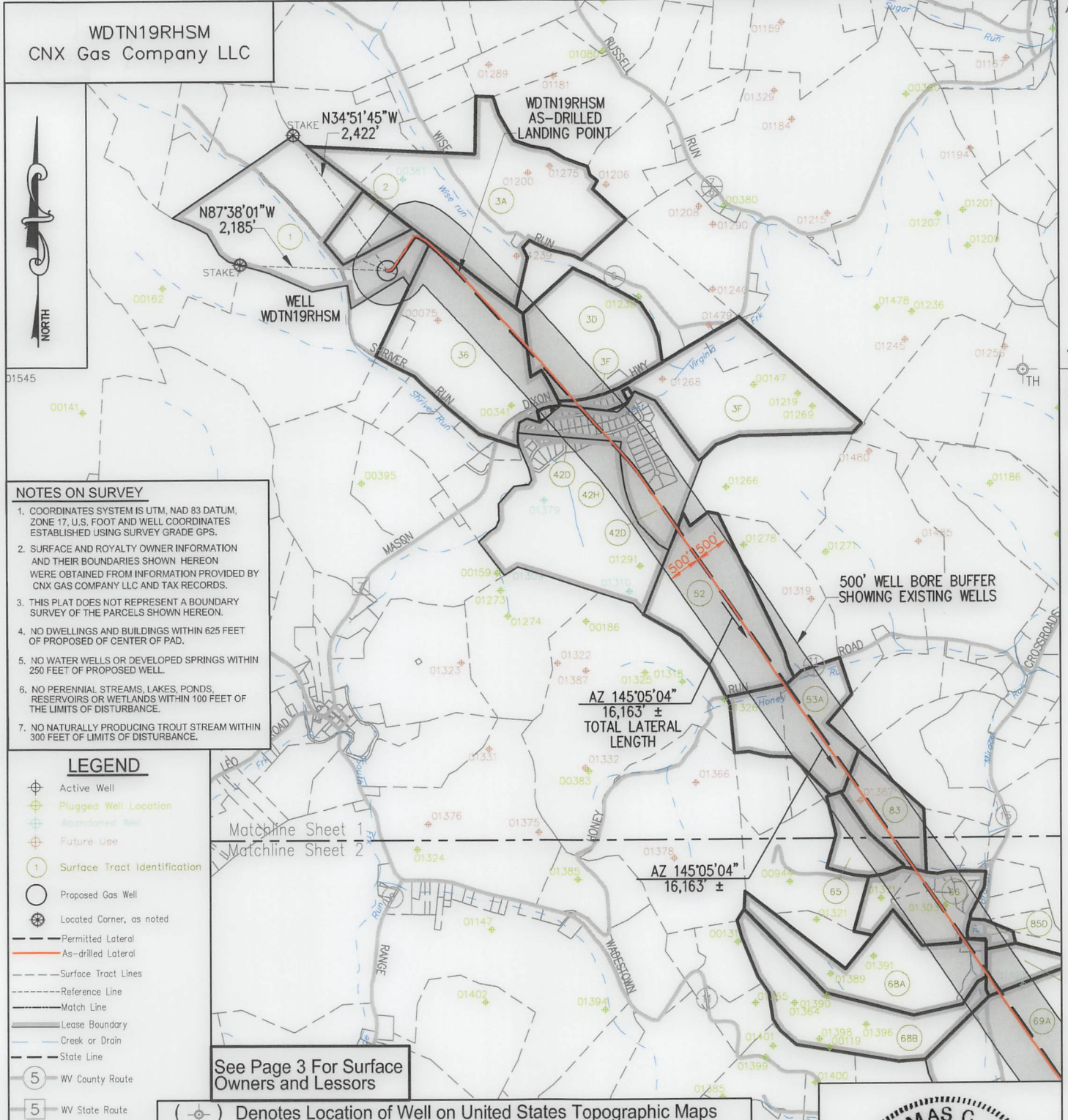
Stimulating Company EVOLUTION WELL SERVICE
Address 1780 HUGHES LANDING BLVD., SUITE 125 City THE WOODLANDS State TX Zip 77380

Please insert additional pages as applicable.

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

Submission 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 OF 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

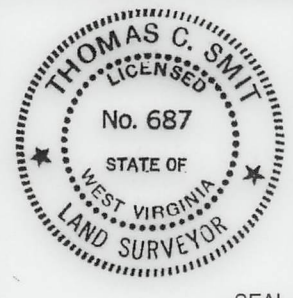
See Page 3 For Surface Owners and Lessors

() 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



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



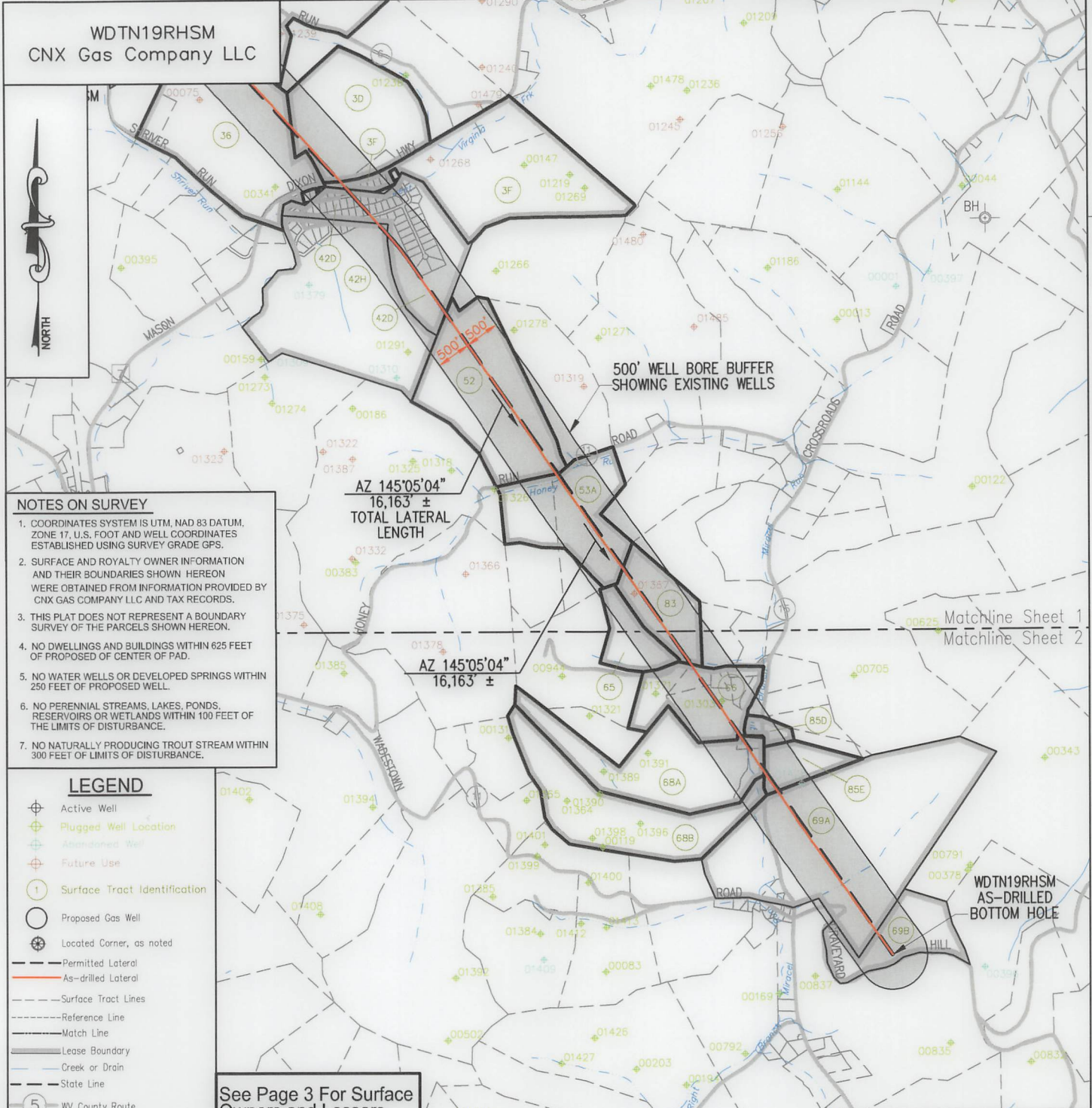
DATE: JUNE 08 20 23
OPERATORS WELL NO:
API WELL NO: 47 - 061 - 01905
STATE COUNTY PERMIT

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

09/15/2023



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SEAL

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MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION



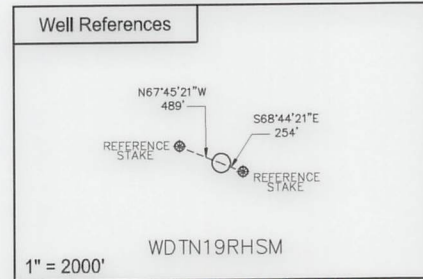
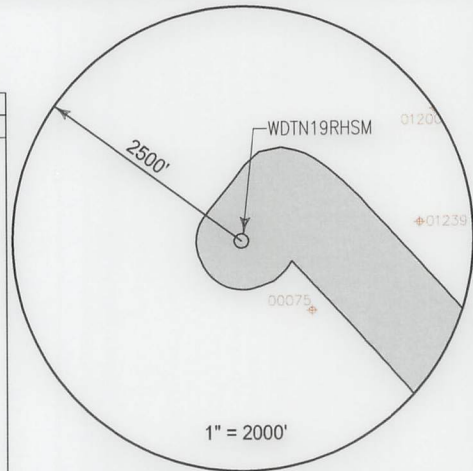
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WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 1000 Horizon Vue Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

AS-DRILLED

TRACT ID	SURFACE OWNER	LESSOR	PIN
1	CNX Gas Company LLC	Hugh Kirkland 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 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	1-8-9



SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	
N: 4393926.766	
E: 556996.638	
NAD 83, WV NORTH	
N: 435721.9081	
E: 1733468.9556	
LAT/LON DATUM NAD 83	
LAT: 39°41'35.8205"	
LON: 80°20'06.8799"	
LANDING POINT	
UTM 17 NAD 83	
N: 4393923.060	
E: 557317.645	
NAD 83, WV NORTH	
N: 435692.145	
E: 1734522.093	
LAT/LON DATUM NAD 83	
LAT: 39°41'35.623"	
LON: 80°19'53.404"	

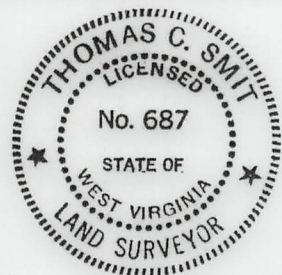
2	CNX Gas Company LLC	Three Rivers Royalty, II, LLC Jack T. Livengood and Mary Jo Livengood Elizabeth L. March Debra Rae Manning, a/k/a Deborah R. Manning, a/k/a Debora R. Manning and Robert Manning Kathryn Rew Becker and Michael Compton	1-8-9
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WDTN19 WELL PAD		BOTTOM HOLE LOCATION (BHL)	
○ WDN19EHSM		UTM 17 NAD 83	
○ WDN19DHSM	○ WDN19BHSM	N: 4390024.212	
○ WDN19CHSM	○ WDN19FHSM	E: 560314.916	
○ WDN19AHSM	○ WDN19RHSM	NAD 83, WV NORTH	
		N: 422734.329	
		E: 1744143.468	
		LAT/LON DATUM NAD 83	
		LAT: 39°39'28.422"	
		LON: 80°17'48.849"	



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
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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
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ADDRESS: 1000 Horizon Vue Drive ADDRESS: 1000 Horizon Vue Drive
Canonsburg, PA 15317 Canonsburg, PA 15317

TRACT ID	SURFACE OWNER	LESSOR	PIN
3A	Barbara S. Shriver, et al	S. H. Shiver and Lucretia Shiver, his wife	1-8-8 1-8-12 1-8-12.1
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
3D	Howard A. Shriver Estate	S. H. Shiver and Lucretia Shiver, his wife	1-8-24.1
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
3F	CNX RCPC LLC, et al	S. H. Shiver and Lucretia Shiver, his wife	1-13-36 1-13-33 1-13B-72 THROUGH 1-13B-82
		South Penn Oil Company Hope Natural Gas Company Consolidated Gas Supply Corporation Consolidated Gas Transmission Corporation CNG Transmission Corporation CNG Power Company Dominion Transmission, Inc. CONSOL Energy Holdings LLC XVI CONSOL Gas Company	
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 DominionExploration and Production, Inc. Antero Resources Appalachian Corporation DominionExploration 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 DominionExploration and Production, Inc. Antero Resources Appalachian Corporation DominionExploration and Production, Inc. Consol Gas Company CNX Gas Company LLC Noble Energy, Inc.	09/15/2023

TRACT ID	SURFACE OWNER	LESSOR	PIN
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 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.	1-13-31.1
53A	Randy Hennen	Randy A. Hennen, a/k/a Randy Hennen, unmarried John E. Kime, a widower	1-13-30 1-13-30.1
TRACT ID	SURFACE OWNER	LESSOR	PIN
65	Jackie W. Miller Jr.	Jackie W. Miller, Jr. and Carol Ann Miller, 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.	1-13-38
66	Eric Dale Chisler, et al	Paul E. Keener II, a married man Kimberly A. Keener, a married woman	1-13-29 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 P&P Fujimo LLC R. Parrish Gaston Paul R. Gaston EQT Production Company Janet Watkins Rose Marie Shape Ruth Ann Tallman Juanita Ely Benjamin C. Wirick Vivian Petoskey Morris Mountaineer Oil and Gas LLC Sidney Austin Smith Trust LLC Thomas E. Ross Richard M. Ross Debra L. Mason and Richard A. Mason Carol Curtis Dwight E. Jackson Judy Wirick Dwight Herd Michael Delbert Herd Christine Ann Boyd Charles Patrick Herd and Leane C. Herd Bruce A. Davie, Jr. Polly Anna Eddy Morrison Fryman Robert W. Davie and Lisa D. Davie Jerry L. Hoffman Cheryl J. Bosse Rodney A. Bosse Clarence S. Willard JPMorgan Chase Bank, N.A. Trustee of the Will E. Morris Heirs Trust U/A dated November 15, 1988	1-18-9 1-18-10

09/15/2023

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.
 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

TRACT ID	SURFACE OWNER	LESSOR	PIN
68B	Opal Howard	Bounty Minerals, LLC	1-18-8

Lola Drilling I, LLC
 Rice Drilling B LLC
 Raymond P. Gaston, aka Ray Gaston, aka Ray Parish Gaston,
 and Pamela J. Gaston
 P&P Fujimo LLC
 R. Parrish Gaston
 Paul R. Gaston
 EQT Production Company
 Janet Watkins
 Rose Marie Shape
 Ruth Ann Tallman
 Juanita Ely
 Benjamin C. Wirick
 Vivian Petoskey
 Morris Mountaineer Oil and Gas LLC
 Sidney Austin Smith Trust LLC
 Thomas E. Ross
 Richard M. Ross
 Debra L. Mason and Richard A. Mason
 Carol Curtis
 Dwight E. Jackson
 Judy Wirick
 Dwight Herd
 Michael Delbert Herd
 Christine Ann Boyd
 Charles Patrick Herd and Leane C. Herd
 Bruce A. Davie, Jr.
 Polly Anna Eddy Morrison Fryman
 Robert W. Davie and Lisa D. Davie
 Jerry L. Hoffman

09/15/2023

Cheryl J. Bosse
 Rodney A. Bosse
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 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

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 Stephen J. Dawson
 Martha E. Menzies and William S. Menzies
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 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.

TRACT ID	SURFACE OWNER	LESSOR	PIN
69A	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
		DominionExploration 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	

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69B	Mary M. Lunsford	Darrell W. Ringer, Deputy Commissioner of Delinquent and Nonentered Lands of Monongalia County, West Virginia	1-17-4
		DominionExploration 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	
		Northeast Natural Energy LLC	
		XTO Energy, Inc	
TRACT ID	SURFACE OWNER	LESSOR	PIN
83	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.	
85D	Richard D. Tennant, et ux	Bounty Minerals LLC	1-18-11
		Bounty Minerals III Acquisitions LLC	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Shuman, Inc.	
		Antero Resources Corporation	
		Richard Dale Tennant and Vickie Lynn Tennant, h/w	
85E	Eric Dale Chisler	Bounty Minerals LLC	1-17-1
		Bounty Minerals III Acquisitions LLC	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
		Shuman, Inc.	
		Antero Resources Corporation	
		Eric Dale Chisler	
		Northeast Natural Energy LLC	

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ATTACHMENT 1: WDTN19RHSM 47-061-01905

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19RHSM	1	3/13/2023	24,498.19	24,595.00	24	Marcellus Shale
WDTN19RHSM	2	3/13/2023	24,317.19	24,439.00	32	Marcellus Shale
WDTN19RHSM	3	3/14/2023	24,157.19	24,279.00	32	Marcellus Shale
WDTN19RHSM	4	3/14/2023	23,997.19	24,119.00	32	Marcellus Shale
WDTN19RHSM	5	3/14/2023	23,837.19	23,959.00	32	Marcellus Shale
WDTN19RHSM	6	3/15/2023	23,677.19	23,799.00	32	Marcellus Shale
WDTN19RHSM	7	3/15/2023	23,517.19	23,639.00	32	Marcellus Shale
WDTN19RHSM	8	3/15/2023	23,357.19	23,479.00	32	Marcellus Shale
WDTN19RHSM	9	3/16/2023	23,197.19	23,319.00	32	Marcellus Shale
WDTN19RHSM	10	3/16/2023	23,037.19	23,159.00	32	Marcellus Shale
WDTN19RHSM	11	3/16/2023	22,877.19	22,999.00	32	Marcellus Shale
WDTN19RHSM	12	3/16/2023	22,717.19	22,839.00	32	Marcellus Shale
WDTN19RHSM	13	3/16/2023	22,557.19	22,679.00	32	Marcellus Shale
WDTN19RHSM	14	3/17/2023	22,397.19	22,519.00	32	Marcellus Shale
WDTN19RHSM	15	3/17/2023	22,237.19	22,359.00	32	Marcellus Shale
WDTN19RHSM	16	3/18/2023	22,077.19	22,199.00	32	Marcellus Shale
WDTN19RHSM	17	3/18/2023	21,917.19	22,039.00	32	Marcellus Shale
WDTN19RHSM	18	3/18/2023	21,757.19	21,879.00	32	Marcellus Shale
WDTN19RHSM	19	3/19/2023	21,597.19	21,719.00	32	Marcellus Shale
WDTN19RHSM	20	3/19/2023	21,437.19	21,559.00	32	Marcellus Shale
WDTN19RHSM	21	3/20/2023	21,277.19	21,399.00	32	Marcellus Shale
WDTN19RHSM	22	3/20/2023	21,117.19	21,239.00	32	Marcellus Shale
WDTN19RHSM	23	3/20/2023	20,957.19	21,079.00	32	Marcellus Shale
WDTN19RHSM	24	3/20/2023	20,797.19	20,919.00	32	Marcellus Shale
WDTN19RHSM	25	3/21/2023	20,637.19	20,759.00	32	Marcellus Shale
WDTN19RHSM	26	3/21/2023	20,477.19	20,599.00	32	Marcellus Shale
WDTN19RHSM	27	3/21/2023	20,317.19	20,439.00	32	Marcellus Shale
WDTN19RHSM	28	3/21/2023	20,157.19	20,279.00	32	Marcellus Shale
WDTN19RHSM	29	3/22/2023	19,997.19	20,119.00	32	Marcellus Shale
WDTN19RHSM	30	3/22/2023	19,797.19	19,959.00	40	Marcellus Shale
WDTN19RHSM	31	3/22/2023	19,597.19	19,759.00	40	Marcellus Shale
WDTN19RHSM	32	3/22/2023	19,397.19	19,559.00	40	Marcellus Shale
WDTN19RHSM	33	3/23/2023	19,197.19	19,359.00	40	Marcellus Shale
WDTN19RHSM	34	3/23/2023	18,997.19	19,159.00	40	Marcellus Shale
WDTN19RHSM	35	3/24/2023	18,797.19	18,959.00	40	Marcellus Shale
WDTN19RHSM	36	3/24/2023	18,597.19	18,759.00	40	Marcellus Shale
WDTN19RHSM	37	3/24/2023	18,397.19	18,559.00	40	Marcellus Shale
WDTN19RHSM	38	3/25/2023	18,197.19	18,359.00	40	Marcellus Shale
WDTN19RHSM	39	3/25/2023	17,997.19	18,159.00	40	Marcellus Shale
WDTN19RHSM	40	3/25/2023	17,797.19	17,959.00	40	Marcellus Shale
WDTN19RHSM	41	3/26/2023	17,597.19	17,759.00	40	Marcellus Shale
WDTN19RHSM	42	3/26/2023	17,397.19	17,559.00	40	Marcellus Shale
WDTN19RHSM	43	3/26/2023	17,197.19	17,359.00	40	Marcellus Shale
WDTN19RHSM	44	3/26/2023	16,997.19	17,159.00	40	Marcellus Shale
WDTN19RHSM	45	3/26/2023	16,797.19	16,959.00	40	Marcellus Shale
WDTN19RHSM	46	3/27/2023	16,597.19	16,759.00	40	Marcellus Shale

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ATTACHMENT 1: WDTN19RHSM 47-061-01905

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN19RHSM	47	3/27/2023	16,397.19	16,559.00	40	Marcellus Shale
WDTN19RHSM	48	3/27/2023	16,197.19	16,359.00	40	Marcellus Shale
WDTN19RHSM	49	3/27/2023	15,997.19	16,159.00	40	Marcellus Shale
WDTN19RHSM	50	3/28/2023	15,797.19	15,959.00	40	Marcellus Shale
WDTN19RHSM	51	3/28/2023	15,597.19	15,759.00	40	Marcellus Shale
WDTN19RHSM	52	3/28/2023	15,397.19	15,559.00	40	Marcellus Shale
WDTN19RHSM	53	3/29/2023	15,197.19	15,359.00	40	Marcellus Shale
WDTN19RHSM	54	3/29/2023	14,997.19	15,159.00	40	Marcellus Shale
WDTN19RHSM	55	3/29/2023	14,797.19	14,959.00	40	Marcellus Shale
WDTN19RHSM	56	3/30/2023	14,597.19	14,759.00	40	Marcellus Shale
WDTN19RHSM	57	3/30/2023	14,397.19	14,559.00	40	Marcellus Shale
WDTN19RHSM	58	3/30/2023	14,197.19	14,359.00	40	Marcellus Shale
WDTN19RHSM	59	3/30/2023	13,997.19	14,159.00	40	Marcellus Shale
WDTN19RHSM	60	3/30/2023	13,797.19	13,959.00	40	Marcellus Shale
WDTN19RHSM	61	3/30/2023	13,597.19	13,759.00	40	Marcellus Shale
WDTN19RHSM	62	3/31/2023	13,397.19	13,559.00	40	Marcellus Shale
WDTN19RHSM	63	3/31/2023	13,197.19	13,359.00	40	Marcellus Shale
WDTN19RHSM	64	3/31/2023	12,997.19	13,159.00	40	Marcellus Shale
WDTN19RHSM	65	3/31/2023	12,797.19	12,959.00	40	Marcellus Shale
WDTN19RHSM	66	4/1/2023	12,597.19	12,759.00	40	Marcellus Shale
WDTN19RHSM	67	4/1/2023	12,397.19	12,559.00	40	Marcellus Shale
WDTN19RHSM	68	4/1/2023	12,197.19	12,359.00	40	Marcellus Shale
WDTN19RHSM	69	4/1/2023	11,997.19	12,159.00	40	Marcellus Shale
WDTN19RHSM	70	4/1/2023	11,797.19	11,959.00	40	Marcellus Shale
WDTN19RHSM	71	4/1/2023	11,597.19	11,759.00	40	Marcellus Shale
WDTN19RHSM	72	4/2/2023	11,397.19	11,559.00	40	Marcellus Shale
WDTN19RHSM	73	4/2/2023	11,197.19	11,359.00	40	Marcellus Shale
WDTN19RHSM	74	4/2/2023	10,997.19	11,159.00	40	Marcellus Shale
WDTN19RHSM	75	4/2/2023	10,797.19	10,959.00	40	Marcellus Shale
WDTN19RHSM	76	4/2/2023	10,596.29	10,759.00	40	Marcellus Shale
WDTN19RHSM	77	4/2/2023	10,396.19	10,558.00	40	Marcellus Shale

ATTACHMENT 2: WDTN19RHSM 47-061-01905

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)
WDTN19RHSM	2	3/14/2023	84	11,020.00	7,871.00	4,845.00	465,871.90	9,309.98
WDTN19RHSM	3	3/14/2023	83	10,754.00	7,955.00	5,667.00	482,541.40	9,039.02
WDTN19RHSM	4	3/14/2023	86	11,012.00	7,854.00	5,368.00	382,041.20	7,544.02
WDTN19RHSM	5	3/14/2023	81	11,229.00	7,000.00	5,657.00	379,462.70	7,222.00
WDTN19RHSM	6	3/15/2023	86	11,013.00	8,120.00	5,795.00	382,050.60	7,275.98
WDTN19RHSM	7	3/15/2023	86	11,081.00	8,127.00	5,665.00	375,912.30	7,068.98
WDTN19RHSM	8	3/15/2023	95	11,048.00	7,508.00	6,094.00	380,148.40	7,399.02
WDTN19RHSM	9	3/16/2023	85	10,994.00	6,874.00	6,129.00	398,152.80	6,737.05
WDTN19RHSM	10	3/16/2023	86	10,912.00	7,698.00	6,033.00	394,475.60	6,629.05
WDTN19RHSM	11	3/16/2023	87	11,100.00	7,629.00	5,575.00	377,496.40	6,558.00
WDTN19RHSM	12	3/16/2023	85	11,154.00	7,856.00	5,386.00	381,053.40	6,590.02
WDTN19RHSM	13	3/17/2023	84	11,000.00	7,775.00	5,406.00	381,848.50	6,836.98
WDTN19RHSM	14	3/17/2023	84	10,965.00	7,985.00	6,022.00	402,519.30	6,640.05
WDTN19RHSM	15	3/17/2023	89	10,962.00	7,459.00	5,700.00	379,941.00	6,773.98
WDTN19RHSM	16	3/18/2023	88	11,012.00	8,156.00	5,563.00	389,748.90	6,965.05
WDTN19RHSM	17	3/18/2023	90	10,970.00	7,908.00	6,006.00	392,869.00	6,512.98
WDTN19RHSM	18	3/18/2023	92	11,045.00	7,331.00	6,011.00	395,753.30	6,613.02
WDTN19RHSM	19	3/19/2023	90	10,906.00	7,772.00	5,361.00	384,273.20	6,517.02
WDTN19RHSM	20	3/19/2023	89	10,896.00	8,468.00	5,805.00	392,741.80	6,540.02
WDTN19RHSM	21	3/20/2023	88	11,110.00	8,309.00	6,484.00	396,391.10	6,622.05
WDTN19RHSM	22	3/20/2023	90	10,789.00	7,619.00	6,368.00	401,314.70	6,523.93
WDTN19RHSM	23	3/20/2023	90	10,534.00	8,236.00	5,696.00	404,755.30	6,520.00
WDTN19RHSM	24	3/20/2023	94	11,019.00	7,902.00	5,670.00	399,096.60	6,589.93
WDTN19RHSM	25	3/21/2023	93	10,821.00	7,627.00	6,311.00	414,970.90	6,602.02
WDTN19RHSM	26	3/21/2023	93	10,948.00	8,481.00	6,055.00	401,129.30	6,581.93
WDTN19RHSM	27	3/21/2023	93	11,057.00	7,928.00	6,138.00	373,774.30	6,414.05
WDTN19RHSM	28	3/22/2023	92	10,938.00	8,279.00	5,915.00	390,304.80	6,478.98
WDTN19RHSM	29	3/22/2023	94	10,984.00	7,401.00	6,289.00	380,447.30	6,262.00
WDTN19RHSM	30	3/22/2023	97	10,896.00	7,369.00	6,074.00	488,705.70	7,843.00
WDTN19RHSM	31	3/22/2023	97	10,976.00	7,387.00	6,298.00	487,871.80	7,897.95
WDTN19RHSM	32	3/23/2023	97	11,033.00	7,811.00	6,398.00	491,139.50	7,899.90
WDTN19RHSM	33	3/23/2023	92	10,510.00	7,354.00	5,701.00	491,791.20	7,816.05
WDTN19RHSM	34	3/23/2023	98	10,907.00	7,511.00	6,496.00	476,140.80	7,698.00
WDTN19RHSM	35	3/24/2023	97	10,704.00	7,412.00	6,410.00	471,716.50	7,610.00
WDTN19RHSM	36	3/24/2023	98	10,744.00	7,474.00	6,224.00	488,339.20	7,746.95
WDTN19RHSM	37	3/24/2023	98	10,900.00	7,882.00	6,522.00	463,533.80	7,600.98
WDTN19RHSM	38	3/25/2023	98	10,787.00	7,444.00	6,102.00	451,690.50	7,503.98
WDTN19RHSM	39	3/25/2023	96	10,609.00	7,757.00	6,488.00	461,585.20	7,255.02
WDTN19RHSM	40	3/25/2023	97	10,705.00	8,228.00	6,528.00	487,661.10	7,640.02
WDTN19RHSM	41	3/26/2023	96	10,788.00	7,290.00	5,598.00	452,650.70	7,339.00
WDTN19RHSM	42	3/26/2023	97	10,734.00	7,423.00	6,643.00	498,838.50	7,708.00
WDTN19RHSM	43	3/26/2023	98	10,728.00	7,158.00	6,737.00	444,031.10	7,246.02
WDTN19RHSM	44	3/26/2023	98	10,776.00	7,525.00	6,530.00	488,460.60	7,745.00
WDTN19RHSM	45	3/27/2023	97	10,706.00	8,364.00	5,765.00	478,868.70	7,830.95

09/15/2023

ATTACHMENT 2: WDTN19RHSM 47-061-01905

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)
WDTN19RHSM	46	3/27/2023	99	10,427.00	7,334.00	6,491.00	485,496.00	7,814.02
WDTN19RHSM	47	3/27/2023	85	9,327.00	7,146.00	5,664.00	483,541.60	7,896.02
WDTN19RHSM	48	3/27/2023	98	10,629.00	7,841.00	6,670.00	487,087.10	8,066.02
WDTN19RHSM	49	3/28/2023	99	10,404.00	7,394.00	6,365.00	480,322.90	7,889.02
WDTN19RHSM	50	3/28/2023	99	10,380.00	7,623.00	6,152.00	494,945.50	8,046.95
WDTN19RHSM	51	3/28/2023	98	10,461.00	7,508.00	5,588.00	496,212.60	7,898.00
WDTN19RHSM	52	3/29/2023	98	10,576.00	7,761.00	5,469.00	468,702.50	7,938.98
WDTN19RHSM	53	3/29/2023	99	10,075.00	7,198.00	6,244.00	483,831.70	7,782.00
WDTN19RHSM	54	3/29/2023	100	10,083.00	6,464.00	5,706.00	473,195.40	7,520.98
WDTN19RHSM	55	3/30/2023	100	10,409.00	6,812.00	5,664.00	473,467.90	7,792.02
WDTN19RHSM	56	3/30/2023	99	10,373.00	7,484.00	6,638.00	489,654.10	7,808.02
WDTN19RHSM	57	3/30/2023	99	10,378.00	7,800.00	5,685.00	483,220.60	7,777.98
WDTN19RHSM	58	3/30/2023	98	10,307.00	7,487.00	6,383.00	480,239.50	7,710.05
WDTN19RHSM	59	3/30/2023	99	10,226.00	7,398.00	6,604.00	479,809.00	7,735.02
WDTN19RHSM	60	3/30/2023	99	10,258.00	8,146.00	5,409.00	476,489.30	7,679.00
WDTN19RHSM	61	3/31/2023	100	10,419.00	7,493.00	5,494.00	488,335.10	7,732.02
WDTN19RHSM	62	3/31/2023	99	10,254.00	7,610.00	5,402.00	446,430.90	7,364.02
WDTN19RHSM	63	3/31/2023	100	10,132.00	7,110.00	6,655.00	440,767.10	7,402.93
WDTN19RHSM	64	3/31/2023	100	10,373.00	7,497.00	5,726.00	477,802.90	7,677.95
WDTN19RHSM	65	3/31/2023	100	10,443.00	7,216.00	6,259.00	423,842.60	7,404.02
WDTN19RHSM	66	4/1/2023	101	10,075.00	7,088.00	5,498.00	469,978.00	7,681.98
WDTN19RHSM	67	4/1/2023	99	9,851.00	7,128.00	5,569.00	408,203.10	5,927.00
WDTN19RHSM	68	4/1/2023	98	10,006.00	7,064.00	5,949.00	409,228.90	6,002.05
WDTN19RHSM	69	4/1/2023	98	10,329.00	7,523.00	5,165.00	409,215.70	5,842.07
WDTN19RHSM	70	4/1/2023	100	10,062.00	7,930.00	5,690.00	394,534.40	5,786.98
WDTN19RHSM	71	4/2/2023	100	10,295.00	7,309.00	5,140.00	394,372.70	5,727.02
WDTN19RHSM	72	4/2/2023	100	10,272.00	7,664.00	5,641.00	401,978.20	5,745.00
WDTN19RHSM	73	4/2/2023	96	9,652.00	7,923.00	5,476.00	380,150.30	5,641.00
WDTN19RHSM	74	4/2/2023	100	9,996.00	7,227.00	6,880.00	412,436.40	5,902.00
WDTN19RHSM	75	4/2/2023	100	10,081.00	6,248.00	5,484.00	406,981.10	5,817.90
WDTN19RHSM	76	4/2/2023	100	9,941.00	7,523.00	5,913.00	398,706.60	5,750.05
WDTN19RHSM	77	4/3/2023	101	9,801.00	7,323.00	0.00	393,765.80	5,653.00
WDTN19RHSM	78	4/3/2023	101	9,756.00	6,989.00	6,914.00	397,097.50	5,913.00

*Stage 1 was not pumped as we were very close to the toe of a Northeast well.

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	1,867	1,781	1,867	GRAY SHALE / TRACES OF SILTSTONE
2nd Salt Sand	1,867	2,024	1,867	2,024	SANDSTONE
3rd Salt Sand	2,024	2,267	2,024	2,267	SANDSTONE
Big Lime	2,267	2,345	2,267	2,345	LIMESTONE
Big Injun Top	2,345	2,542	2,345	2,542	SANDSTONE
Big Injun Base	2,542	2,991	2,542	2,991	SILTSTONE
Gantz	2,991	3,019	2,991	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	3,118	3,020	3,118	SILTSTONE
50 Foot Sand	3,118	3,170	3,118	3,170	SANDSTONE / SILTSTONE
50 Foot Sand Base	3,170	3,206	3,170	3,206	SILTSTONE
30 Foot Sand	3,206	3,239	3,206	3,240	SANDSTONE
30 Foot Sand Base	3,239	3,279	3,240	3,279	SILTSTONE
Gordon Sand	3,279	3,344	3,279	3,345	SANDSTONE
Gordon Base	3,344	3,397	3,345	3,398	SILTSTONE
Fourth Sand	3,397	3,408	3,398	3,409	SANDSTONE
Fourth Sand Base	3,408	3,567	3,409	3,569	SILTSTONE
Fifth Sand	3,567	3,637	3,569	3,639	SANDSTONE
Fifth Sand Base	3,637	4,921	3,639	4,940	SILTSTONE
Bradford	4,921	5,606	4,940	5,639	SANDSTONE
Elk	5,606	5,855	5,639	5,891	SILTSTONE / GREY SHALE
2nd Elk	5,855	7,009	5,891	7,062	SILTSTONE / GREY SHALE
Rhinestreet	7,009	7,151	7,062	7,206	GREY SHALE
Cashaqua	7,151	7,381	7,206	7,442	GREY SHALE
Middlesex	7,381	7,471	7,442	7,539	GREY SHALE
West River	7,471	7,641	7,539	7,742	GREY SHALE
Burket Shale	7,641	7,672	7,742	7,785	GREY SHALE
Tully Limestone	7,672	7,711	7,785	7,843	LIMESTONE / GRAY SHALE
Hamilton Shale	7,711	7,854	7,843	8,163	GREY SHALE
Upper Marcellus	7,854	7,877	8,163	8,276	BLACK SHALE
Middle Marcellus	7,877	7,893	8,276	8,404	BLACK SHALE
Cherry Valley	7,893	7,898	8,404	8,471	LIMESTONE
Lower Middle Marcellus	7,898		8,471		BLACK SHALE
Onondaga Limestone					LIMESTONE

TD

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/13/2023
Job End Date:	4/3/2023
State:	West Virginia
County:	Monongalia
API Number:	47-061-01905-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	WDTN19RHSM
Latitude:	39.69328400
Longitude:	-80.33524400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,981
Total Base Water Volume (gal):	23,055,690
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	85.00259	None
Sand	US Silica	Proppant					
			Crystalline Silica in the form of Quartz	14808-60-7	99.90000	14.73358	None
StimSTREAM 9800	CHEMSTREAM	Friction Reducer					
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.02181	None
			Butene, homopolymer	9003-29-6	25.00000	0.02181	None
			Ethoxylated alcohols	68213-23-0	3.00000	0.00262	None
HCL Acid (28%)	CHEMSTREAM	Acidizing					
			Hydrochloric Acid	7647-01-0	28.00000	0.03489	None
CoilSTREAM VB 625	CHEMSTREAM	Gelling Agent					
			Heavy Aliphatic Naphtha	64742-96-7	60.00000	0.00302	None
			Guar Gum	9000-30-0	50.00000	0.00252	None
			Trade Secret	9043-30-5	5.00000	0.00025	None
			Trade Secret	1338-43-8	3.00000	0.00015	None
	Trade Secret	14808-60-7	3.00000	0.00015	None		
Clearal 268	CHEMSTREAM	Biocide					

			Glutaraldehyde	111-30-8	20.00000	0.00221	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	0.00012	None
			Trade Secret	72480-70-7	15.00000	0.00009	None
			N,N-Dimethylformamide	68-12-2	10.00000	0.00006	None
			2-Butoxyethanol	111-76-2	5.00000	0.00003	None
Ammonium Persulfate	CHEMSTREAM	Breaker					
			Ammonium Persulfate	7727-54-0	100.00000	0.00049	None
Citric Acid 50%	CHEMSTREAM	Iron Control Agent					
			citric acid	77-92-9	50.50000	0.00040	None
Ingredients shown above are subject to 29.CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Butene, homopolymer	9003-29-6	25.00000	0.02181	
			Ethoxylated alcohols	68213-23-0	3.00000	0.00262	
			Guar Gum	9000-30-0	50.00000	0.00252	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00033	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00033	
			Trade Secret	9043-30-5	5.00000	0.00025	
			Trade Secret	14808-60-7	3.00000	0.00015	
			Trade Secret	1338-43-8	3.00000	0.00015	
			Ethylene glycol	107-21-1	20.00000	0.00012	
			Trade Secret	72480-70-7	15.00000	0.00009	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00006	
			2-Butoxyethanol	111-76-2	5.00000	0.00003	

* 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)