

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

API 47-061-01948-00-00 County MONONGALIA District BATTELLE  
Quad WADESTOWN Pad Name WDTN18 Field/Pool Name \_\_\_\_\_  
Farm name CONSOL MINING CO. LLC Well Number WDTN18EHSM  
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 4393673.371 Easting 555024.121  
Landing Point of Curve Northing 4393943.129 Easting 555261.785  
Bottom Hole Northing 4398161.170 Easting 552204.974

Elevation (ft) 1,199' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

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

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

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

Date permit issued 09.29.2023 (modified) Date drilling commenced 11.15.2023 (spud) Date drilling ceased 03.06.2024  
Date completion activities began 6.14.2024 Date completion activities ceased 8.22.2024  
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 103', 111', 190', 243', 259', 325', 399' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2,415', 3,045', 3,210' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 448'-449', 537'-538', 612'-613', 614'-617', 873'-878', 960'-974' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**APPROVED**

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Office of Oil and Gas  
DEC 09 2024  
Reviewed by: *[Signature]*  
03/07/2025

API 47-061 - 01948-00-00 Farm name CONSOL MINING CO. LLC Well number WDTN18EHSM

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	26"	26"	40'	NEW	94 lb/ft	N/A	GROUT TO SURFACE
Surface	17.5"	13.375"	1,078'	NEW	J-55 54.5 lb/ft	N/A	Y - CEMENT TO SURFACE
Coal							
Intermediate 1	12.25"	9.625"	2,691'	NEW	J-55 36 lb/ft	N/A	Y - CEMENT TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75" & 8.5"	5.5"	25,484'	NEW	P-110 CY 23 lb/ft	N/A	Y - TOC @ 1,176'
Tubing							
Packer type and depth set							

Comment Details ALL DEPTHS ARE REFERENCED AT GROUND LEVEL ELEVATION

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	CLASS A	895	16.0	1.13	1,011	Surface	8
Coal							
Intermediate 1	CLASS A	945	15.6	1.19	1,125	Surface	8
Intermediate 2							
Intermediate 3							
Production	NEOCEM / NEOCEM	725 (LEAD) / 4,010 (TAIL)	15.0 / 15.0	1.18 (LEAD) / 1.17 (TAIL)	856 (LEAD) / 4,692 (TAIL)	1,175'	8
Tubing							

Drillers TD (ft) 25,526' Loggers TD (ft) 25,526'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) Curve 7,236' (MD) 7,099 (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; 13 total

INTERMEDIATE: Centralize every 3rd joint from shoe to surface; 21 total

PRODUCTION: Centralize every joint from shoe to TOC; 521 total

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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Environmental Protection

03/07/2025

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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				

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>7,839'</u>	<u>TVD</u>	<u>9,207'</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 2050 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 2976 mcfpd Oil 0 bpd NGL 0 bpd Water 2020 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

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

Please insert additional pages as applicable.

Drilling Contractor PRECISION DRILLING COMPANY  
Address 125 TECHNOLOGY DRIVE City CANONSBURG State PA Zip 15317

Logging Company BAKER HUGHES  
Address 400 TECHNOLOGY DRIVE City CANONSBURG State PA Zip 15317

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 Mike Honce Telephone 304-406-8909  
Signature [Signature] Title Completions Superintendent Date 12/3/2024

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Office of Oil and Gas

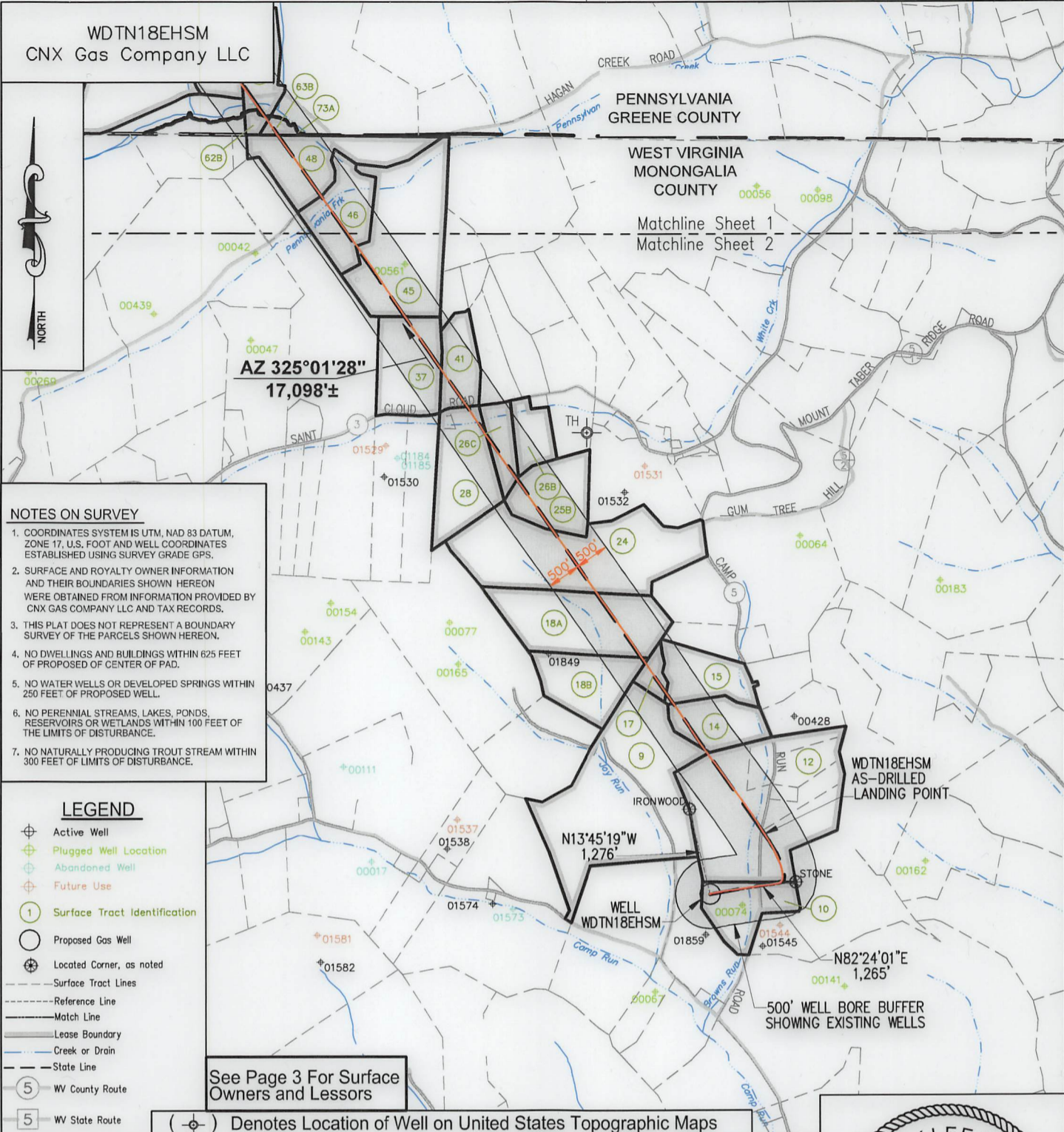
DEC 09 2024

WV Department of  
Environmental Protection

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

03/07/2025





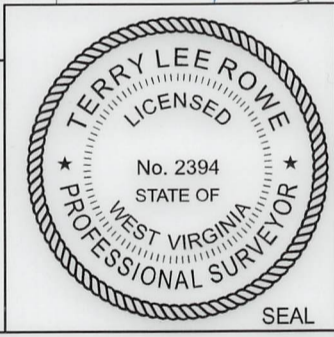
**NOTES ON SURVEY**

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
  - ① Surface Tract Identification
  - Proposed Gas Well
  - ⊕ Located Corner, as noted
  - Surface Tract Lines
  - Reference Line
  - Match Line
  - Lease Boundary
  - Creek or Drain
  - State Line
  - ⑤ WV County Route
  - ⑤ 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.

*L. L. Rowe*  
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: OCTOBER 24 20 24  
OPERATORS WELL NO: \_\_\_\_\_  
API WELL NO  
47 - 061 - 01948  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION ELEVATION: 1199' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown  
DISTRICT: Battelle COUNTY: Monongalia  
SURFACE OWNER: Consol Mining Company LLC ACREAGE: 46.75 ±  
ROYALTY OWNER: Bounty Minerals, LLC LEASE NO: 189033000 ACREAGE: 59.02 ±  
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: 7,848'

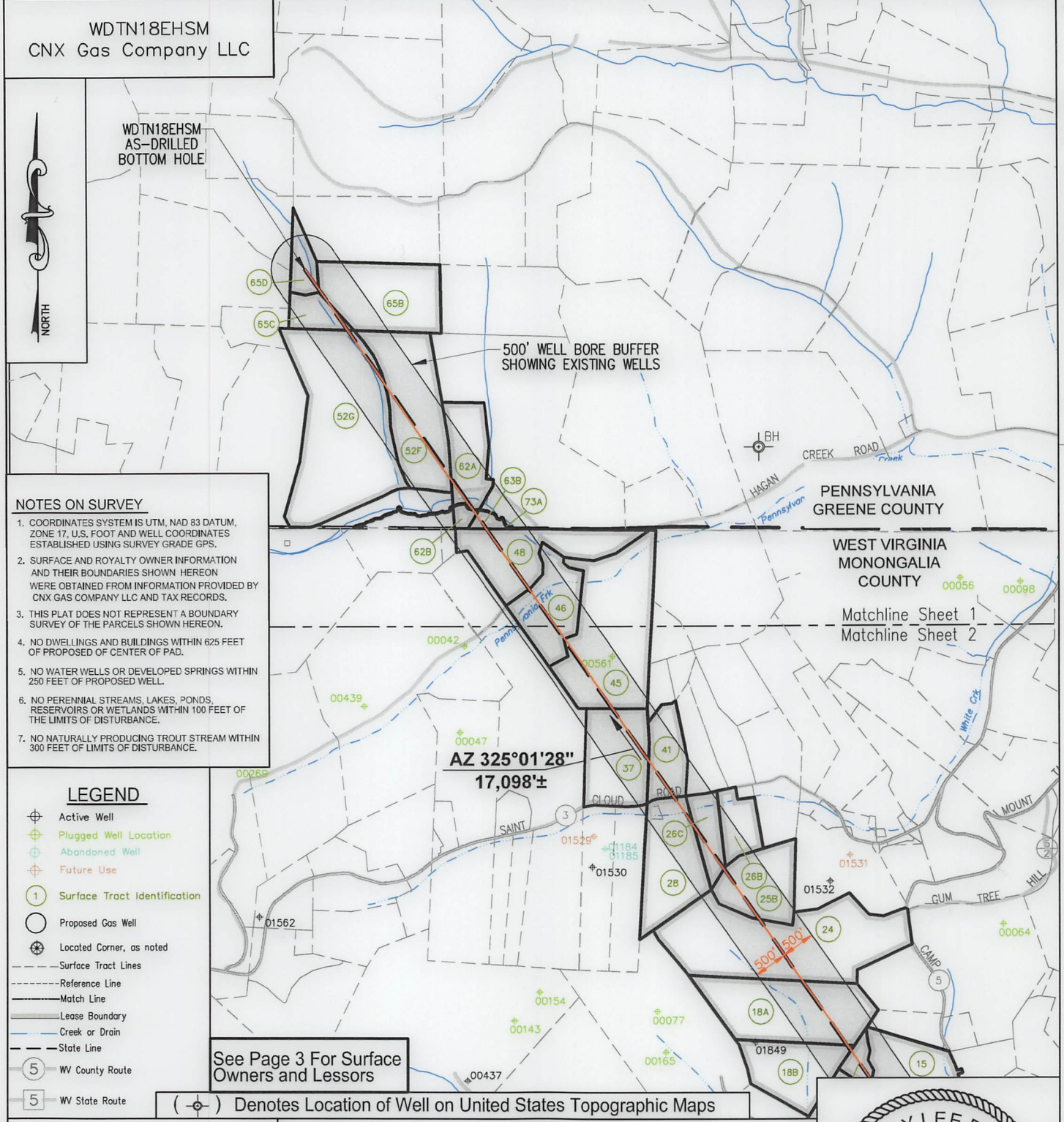
WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora  
ADDRESS: 1000 Horizon Vue Drive ADDRESS: 111 Avondale Road  
Canonsburg, PA 15317 Fairmont, WV 26554

AS-DRILLED



LATITUDE 39° 45' 00" BH: 4,445'

LONGITUDE 80° 22' 30" BH: 6,665'



- NOTES ON SURVEY**
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- LEGEND**
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  - Abandoned Well
  - Future Use
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- ( ) Denotes Location of Well on United States Topographic Maps

See Page 3 For Surface Owners and Lessors



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.

*T. L. S. 687*  
L. L. S. 687



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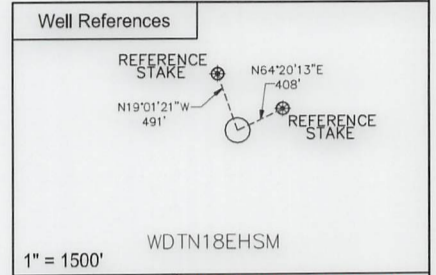
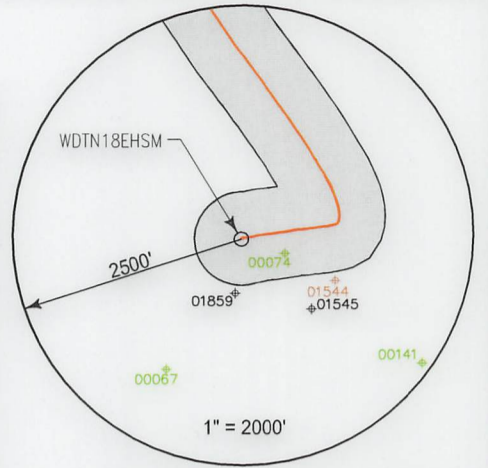
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ROYALTY OWNER: Bounty Minerals, LLC LEASE NO: 189033000 ACREAGE: 59.02 ±  
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AS-DRILLED



TRACT ID	SURFACE OWNER	LESSOR	PIN
9	Consol Mining Company LLC	Paul Reeder	1-9-33
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	
10	Consol Mining Company LLC	Eastern Associated Coal Corporation	1-9-37 1-9-38
12	Consol Mining Company LLC, et al	Ralph Six	1-9-39 1-9-39.1 1-9-39.2 1-9-39.3 1-9-39.4 1-9-39.5 1-9-39.6
		Antero Resources Corporation	
		Doris Margaret White	
		George Stephen Knight	
14	Curtis L Thomas, et ux	Curtis L. Thomas and Diana B. Thomas	1-9-40.3



**SURFACE HOLE LOCATION (SHL)**

UTM 17 NAD 83
N: 4393673.371
E: 555024.121
NAD 83, WV NORTH
N: 434998.572
E: 1726982.506
LAT/LON DATUM NAD 83
LAT: 39°41'28.068"
LON: 80°21'29.771"
LANDING POINT
UTM 17 NAD 83
N: 4393943.129
E: 555261.785
NAD 83, WV NORTH
N: 435870.719
E: 1727777.161
LAT/LON DATUM NAD 83
LAT: 39°41'36.762"
LON: 80°21'19.712"

**BOTTOM HOLE LOCATION (BHL)**

UTM 17 NAD 83
N: 4398161.170
E: 552204.974
NAD 83, WV NORTH
N: 449879.340
E: 1717977.899
LAT/LON DATUM NAD 83
LAT: 39°43'54.267"
LON: 80°23'26.849"

**WDTN18 WELL PAD**

WDTN18AHSM ○○ WDTN18UHSM  
WDTN18BHSM ○○ WDTN18EHSM  
WDTN18CHSM ○○ WDTN18DHSM



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



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OPERATORS WELL NO: \_\_\_\_\_  
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LOCATION ELEVATION: 1199' WATERSHED: Dunkard Creek QUADRANGLE: Wadestown  
DISTRICT: Battelle COUNTY: Monongalia  
SURFACE OWNER: Consol Mining Company LLC ACREAGE: 16.75 ±  
ROYALTY OWNER: Bounty Minerals, LLC LEASE NO: 189033000 ACREAGE: 59.02 ±  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
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03/07/2025



TRACT ID	SURFACE OWNER	LESSOR	PIN
15	Curtis L Thomas, et ux	Gail T. Bellucci	1-9-40.1
		Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee	
		Sherry Lemons	
		Melissa Kubischke	
		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 September 2, 1998	
		Louise Kirkland Berg	
		Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust	
		Catherine C. Kirkland	
		Ann W. Haning	
		Morgan Haning	
		Zachery Haning	
		Catherine Haning Coleman	
		Kathleen Farmer	
		A. E. Hennen III	
		John K. Hennen	
		David Michael Hennen	
		Mary Hennen	
		Robert Douglas Hennen	
		Sarah C. Sheridan	
		Curtis L. Thomas and Diana B. Thomas	
		Hugh Kirkland	
		Patrick Lee North, individually and as co-executor of the Edward Lee North Estate	
		Diane H. Goncalves, individually and as co-executor of the Edward Lee North Estate	
		Barbara Haning	
TRACT ID	SURFACE OWNER	LESSOR	PIN
17	Wolfpen Knob Development	Gail T. Bellucci	1-9-40.4
		Alma E. Kirkland Revocable Living Trust Agreement, Bank of Oklahoma N.A., Sole Successor Trustee	
		Sherry Lemons	
		Melissa Kubischke	
		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 September 2, 1998	
		Louise Kirkland Berg	
		Christine A. Kirkland, as Trustee of the Christine A. Kirkland Trust	
		Catherine C. Kirkland	
		Ann W. Haning	
		Morgan Haning	
		Zachery Haning	
		Catherine Haning Coleman	
		Kathleen Farmer	
		A. E. Hennen III	
		John K. Hennen	
		David Michael Hennen	
		Mary Hennen	
		Robert Douglas Hennen	
		Sarah C. Sheridan	
		Hugh Kirkland	
		Patrick Lee North, individually and as co-executor of the Edward Lee North Estate	
		Diane H. Goncalves, individually and as co-executor of the Edward Lee North Estate	03/07/2025
		Barbara Haning	
		CNX Resource Holdings LLC	



TRACT ID	SURFACE OWNER	LESSOR	PIN
18A	CNX RCPC LLC	Donna R. Hennen WOG Leasing, LLC	1-9-20
		Milan W. Cikovich, Jr. and Susan K. Cikovich, husband and wife EQT Production Company	
		Don Fordyce Betty Short Milan W. Cikovich, Jr. and Christine Michelle Park, individually and trustee of of the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich	
		Melissa Ann Hennen Limbaugh Linda S. Sansone Mildred Louise Walton Judy Kay Marshall, f/k/a Judy Kay Howard Mary Virginia Davis Karen S. Gray Helene M. Muetzel James R. Hennen, Jr. Cecil Hennen Roger L. Pratt Nelson James Hennen, Jr.	
		Clark H. Hennen Delores Ann Hennen Bryant Francis J. Waldron Hennen Ronald Fordyce James Cox Joseph Muto	
		Robert Morgan and Vickie Morgan Terra Firma Company CNX Land LLC	
TRACT ID	SURFACE OWNER	LESSOR	PIN
18B	CNX RCPC LLC	Kimeric and Company LLC Antero Resources Corporation	1-9-20
TRACT ID	SURFACE OWNER	LESSOR	PIN
24	Consol Mining Company LLC	Bounty Minerals, LLC	1-9-19
TRACT ID	SURFACE OWNER	LESSOR	PIN
25B	CNX RCPC LLC	Marsha W. Byers and Stephen R. Byers David C. White a/k/a David Charles White and Regina S. White a/k/a Regina Sue White Candace L. McPheron and Douglas A. McPheron Howard L. Leckey Lucy Mae Stickley Betty Ann Reed David Ray Stone Donald E. Stone Marian Rebecca Stone Garrett Patricia Kathaleen White Hoekstra Alvy Scott White Karen Imogene Meyer Robert S. Elliott Carol Sue Davis Edwin Ray White, II Melinda Reid Hatton Dennis F. Hatton Jr. Amanda Hatton Jane E. McIntyre and Glenn C. McIntyre Jan W. Ellison and Thomas A. Ellison Mary Ann Borkowski and Marc Borkowski Edith B. White Robert L. Tate, Jr. Nancy Emerick Doris Jean White Anita Susan Talbott Richard H. Benson, II Three Rivers Royalty II, LLC	1-9-9.6
		Frederick C. Tate	

03/07/2025

TRACT ID	SURFACE OWNER	LESSOR	PIN
26B	Kevin Hartley, et ux	Kevin Hartley and Linda Hartley	1-9-7
TRACT ID	SURFACE OWNER	LESSOR	PIN
26C	Kevin Hartley, et ux	Kevin Hartley and Linda Hartley	1-9-7
		Betty Carol Canan	
		Neil M. Canan	
TRACT ID	SURFACE OWNER	LESSOR	PIN
28	Paul David Beck, et al	Bounty Minerals, LLC	1-9-6 1-9-6.1 1-9-6.2
TRACT ID	SURFACE OWNER	LESSOR	PIN
37	Mike J. Prendergast, et ux	Mike J. Prendergast and Thelma M. Predergast	1-2-7
TRACT ID	SURFACE OWNER	LESSOR	PIN
41	Paul David Beck, et al	Bounty Minerals, LLC	1-2-8
TRACT ID	SURFACE OWNER	LESSOR	PIN
45	Consol Mining Company LLC	Aliakbar Afshari	1-2-5
		Amir H. Mohammadi	
		EQT Production Company	
		EQT Production Company	
		Flossie Kimble; Denzle Kimble and Olive Irene Wright Kimble	
		Consolidation Coal Company	
TRACT ID	SURFACE OWNER	LESSOR	PIN
46	Consol Mining Company LLC	Elkhorn Minerals, LLC	1-2-5
		Shuman Inc.	
		Noumenon Corporation	
		O-Max Coal Company	
		Flossie Kimble; Denzle Kimble and Olive Irene Wright Kimble	
		Consolidation Coal Company	
TRACT ID	SURFACE OWNER	LESSOR	PIN
48	Consol Mining Company LLC	Elkhorn Minerals, LLC	1-2-4
		James L. Taylor and DeEtta K. Taylor	
		Consolidation Coal Company	

03/07/2025



## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	06/15/2024
Job End Date:	07/16/2024
State:	West Virginia
County:	Monongalia
API Number:	47-061-01948-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	WDTN18EHSM
Latitude:	39.689299
Longitude:	-80.358286
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7846
Total Base Water Volume (gal)*:	24719730
Total Base Non Water Volume:	0



Water Source	Percent
--------------	---------

RECEIVED  
Office Of Oil and Gas

NOV 12 2024

WV Department of  
Environmental Protection

### 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
ACI-150	PVS-Nolwood Chemicals	Acid corrosion inhibitor					
Citric Acid 50%	PVS-Nolwood Chemicals	Iron Control					
Clearal 268	Chemstream	Biocide					
FDP-S1435-21	Halliburton	Friction Reducer					
HCL Acid (28%)	CHEMSTREAM	Acid					
Sand	US Silica	Proppant					
StimSTREAM FR 9800	Chemstream	Friction Reducer					
StimSTREAM SC 405	Chemstream	Scale Control					
Water	CNX	Carrier/Base Fluid					

Items above are Trade Names. Items below are the individual ingredients.

03/07/2025

			Water	7732-18-5	100.00000	83.27725	None
			Crystalline Silica in the form of Quartz	14808-60-7	99.90000	16.57719	None
			Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	40.00000	0.03001	None
			Alkanes, C12-26-Branched and Linear	90622-53-0	40.00000	0.03001	None
			Hydrogen chloride	7647-01-0	28.00000	0.01444	None
			Acrylic Polymer	9003-05-8	100.00000	0.00913	None
			Ethoxylated Alcohols (C12-16)	68551-12-2	5.00000	0.00375	None
			Glutaraldehyde	111-30-8	20.00000	0.00203	None
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00063	None
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00063	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00030	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00030	None
			Citric acid	77-92-9	50.50000	0.00018	None
			Methyl alcohol	67-56-1	70.00000	0.00018	None
			Ethanol	64-17-5	1.50000	0.00015	None
			Ethylene glycol	107-21-1	20.00000	0.00005	None
			N,N-Dimethylformamide	68-12-2	10.00000	0.00003	None
			Cinnamaldehyde	104-55-2	5.00000	0.00001	None
			2-Butoxyethanol	111-76-2	5.00000	0.00001	None
			Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	5.00000	0.00001	None
			Tar Bases, quinoline derivs, benzyl chloride-quat	72480-70-7	5.00000	0.00001	None

\* Total Water Volume sources may include various types of water including fresh water, produced water, and 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)

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API:47-061-01948

CNX RESOURCES LLC

WELL NAME: WDTN18EHSM

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)
Un-named Shale-Sand	0	448	0	448	Shale/Sandstone
Washington Coal Seam	448	450	448	450	Coal
un-named red shale siltstone and sand	450	538	450	538	Shale/Sandstone/Siltstone
Waynesburg A Coal Seam	538	539	538	539	Coal
Un-named shale and sand	539	612	539	612	Shale/Sandstone
Waynesburg B2 Coal Seam	612	614	612	614	Coal
Un-named shale and sand	614	614	614	614	Shale/Sandstone
Waynesburg B1 Coal Seam	614	618	614	618	Coal
Un-named shale and sand	618	873	618	873	Shale/Sandstone
Sewickley Coal Seam	873	878	873	878	Coal
Un-named shale and sand	878	978	878	978	Shale/Sandstone
Pittsburgh Coal Seam	978	984	978	984	Coal
un-named shale and sand	984	1336	984	1336	Shale/Sandstone
Bakers Town	1336	1337	1336	1337	Coal
un-named shale and sand	1337	1441	1337	1441	Shale/Sandstone
Brush Creek	1441	1442	1441	1442	Coal
un-named shale and sand	1442	1500	1442	1500	Shale/Sandstone
Mahoning	1500	1501	1500	1501	Coal
un-named shale and sand	1501	1551	1501	1551	Shale/Sandstone
Upper Freeport	1551	1551	1551	1551	Coal
Gas Sand	1551	1591	1551	1591	Sandstone
Lower Freeport	1591	1593	1591	1593	Coal
1st Salt Sand	1593	1715	1593	1715	Sandstone
Middle Kittanning Coal Seam	1715	1716	1715	1716	Coal
un-named shale and sand	1716	1834	1716	1834	Shale/Sandstone
2nd Salt Sand	1834	1919	1834	1919	Sandstone
un-named shale and sand	1919	1979	1919	1979	Shale/Sandstone
3rd Salt Sand	1979	2009	1979	2009	Sandstone
Big Lime	2189	2415	2189	2415	Limestone
Big Injun	2415	2503	2415	2503	Sandstone

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LITHOLOGIES

LITHOLOGY / FORMATION NAME	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
Big Injun Base	2503	2916	2503	2916	Siltstone/Shale
Gantz	2916	3012	2916	3012	Sandstone
Gantz Base	3012	3029	3012	3029	Siltstone/Shale
50 Foot	3029	3104	3029	3104	Sandstone
Fifty Foot Base	3104	3137	3104	3137	Siltstone/Shale
30 Foot	3137	3178	3137	3178	Sandstone
30 Foot Base	3178	3213	3178	3213	Siltstone/Shale
Gordon	3213	3279	3213	3279	Sandstone
Gordon Base	3279	3392	3279	3393	Siltstone/Shale
Fourth Sand	3392	3402	3393	3403	Sandstone
Fourth Sand Base	3402	3498	3403	3501	Siltstone/Shale
Fifth Sand	3498	3502	3501	3505	Sandstone
Fifth Sand Base	3502	4641	3505	4686	Siltstone/Shale
Bradford	4641	5348	4686	5422	Sandstone/Shale
Elk	5348	5779	5422	5873	Sandstone/Shale
2nd Elk	5779	6786	5873	6918	Sandstone/Shale
Rhinestreet	6786	7228	6918	7368	Shale
Cashaqua	7228	7409	7368	7560	Shale
Middlesex	7409	7513	7560	7680	Shale
West River	7513	7605	7680	7798	Shale
Burket	7605	7635	7798	7841	Black Shale, Gas
Tully	7635	7674	7841	7900	Limestone
Hamilton	7674	7818	7900	8203	Shale
Marcellus	7818		8203		Black Shale, Gas

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Attachment 1: WDTN18EHSM 47-061-01948

WELLNAME	Stage	date_perfed	From_TMD	To_TMD	Shots	Formation
WDTN18EHSM	1	6/15/2024	25,406.0	25,458.0	16	MARCELLUS
WDTN18EHSM	2	6/15/2024	25,139.2	25,351.4	48	MARCELLUS
WDTN18EHSM	3	6/17/2024	24,898.0	25,110.2	48	MARCELLUS
WDTN18EHSM	4	6/17/2024	24,656.8	24,869.0	48	MARCELLUS
WDTN18EHSM	5	6/18/2024	24,415.6	24,627.8	48	MARCELLUS
WDTN18EHSM	6	6/18/2024	24,174.4	24,386.6	48	MARCELLUS
WDTN18EHSM	7	6/18/2024	23,933.2	24,145.4	48	MARCELLUS
WDTN18EHSM	8	6/19/2024	23,692.0	23,904.2	48	MARCELLUS
WDTN18EHSM	9	6/19/2024	23,450.8	23,663.0	48	MARCELLUS
WDTN18EHSM	10	6/19/2024	23,209.6	23,421.8	48	MARCELLUS
WDTN18EHSM	11	6/20/2024	22,968.4	23,180.6	48	MARCELLUS
WDTN18EHSM	12	6/20/2024	22,727.2	22,939.4	48	MARCELLUS
WDTN18EHSM	13	6/20/2024	22,486.0	22,698.2	48	MARCELLUS
WDTN18EHSM	14	6/21/2024	22,244.8	22,457.0	48	MARCELLUS
WDTN18EHSM	15	6/28/2024	22,003.6	22,215.8	48	MARCELLUS
WDTN18EHSM	16	6/28/2024	21,762.4	21,974.6	48	MARCELLUS
WDTN18EHSM	17	6/29/2024	21,521.2	21,733.4	48	MARCELLUS
WDTN18EHSM	18	6/29/2024	21,280.0	21,492.2	48	MARCELLUS
WDTN18EHSM	19	6/30/2024	21,038.8	21,251.0	48	MARCELLUS
WDTN18EHSM	20	6/30/2024	20,797.6	21,009.8	48	MARCELLUS
WDTN18EHSM	21	6/30/2024	20,556.4	20,768.6	48	MARCELLUS
WDTN18EHSM	22	6/30/2024	20,315.2	20,527.4	48	MARCELLUS
WDTN18EHSM	23	7/1/2024	20,074.0	20,286.2	48	MARCELLUS
WDTN18EHSM	24	7/1/2024	19,832.8	20,045.0	48	MARCELLUS
WDTN18EHSM	25	7/1/2024	19,591.6	19,803.8	48	MARCELLUS
WDTN18EHSM	26	7/1/2024	19,350.4	19,562.6	48	MARCELLUS
WDTN18EHSM	27	7/2/2024	19,109.2	19,321.4	48	MARCELLUS
WDTN18EHSM	28	7/2/2024	18,868.0	19,080.2	48	MARCELLUS
WDTN18EHSM	29	7/2/2024	18,626.8	18,839.0	48	MARCELLUS
WDTN18EHSM	30	7/3/2024	18,385.6	18,597.8	48	MARCELLUS
WDTN18EHSM	31	7/3/2024	18,144.4	18,356.6	48	MARCELLUS
WDTN18EHSM	32	7/3/2024	17,903.2	18,115.4	48	MARCELLUS
WDTN18EHSM	33	7/3/2024	17,662.0	17,874.2	48	MARCELLUS
WDTN18EHSM	34	7/4/2024	17,420.8	17,633.0	48	MARCELLUS
WDTN18EHSM	35	7/4/2024	17,179.6	17,391.8	48	MARCELLUS
WDTN18EHSM	36	7/4/2024	16,938.4	17,150.6	48	MARCELLUS
WDTN18EHSM	37	7/5/2024	16,697.2	16,909.4	48	MARCELLUS
WDTN18EHSM	38	7/5/2024	16,456.0	16,668.2	48	MARCELLUS
WDTN18EHSM	39	7/5/2024	16,214.8	16,427.0	48	MARCELLUS
WDTN18EHSM	40	7/6/2024	15,973.6	16,185.8	48	MARCELLUS
WDTN18EHSM	41	7/6/2024	15,732.4	15,944.6	48	MARCELLUS
WDTN18EHSM	42	7/6/2024	15,491.2	15,703.4	48	MARCELLUS

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Attachment 1: WDTN18EHSM 47-061-01948

WELLNAME	Stage	date_perfed	From_TMD	To_TMD	Shots	Formation
WDTN18EHSM	43	7/7/2024	15,250.0	15,462.2	48	MARCELLUS
WDTN18EHSM	44	7/7/2024	15,008.8	15,221.0	48	MARCELLUS
WDTN18EHSM	45	7/7/2024	14,767.6	14,979.8	48	MARCELLUS
WDTN18EHSM	46	7/7/2024	14,526.4	14,738.6	48	MARCELLUS
WDTN18EHSM	47	7/8/2024	14,285.2	14,497.4	48	MARCELLUS
WDTN18EHSM	48	7/8/2024	14,044.0	14,256.2	48	MARCELLUS
WDTN18EHSM	49	7/8/2024	13,802.8	14,015.0	48	MARCELLUS
WDTN18EHSM	50	7/9/2024	13,561.6	13,773.8	48	MARCELLUS
WDTN18EHSM	51	7/9/2024	13,320.4	13,532.6	48	MARCELLUS
WDTN18EHSM	52	7/9/2024	13,079.2	13,291.4	48	MARCELLUS
WDTN18EHSM	53	7/9/2024	12,838.0	13,050.2	48	MARCELLUS
WDTN18EHSM	54	7/10/2024	12,596.8	12,809.0	48	MARCELLUS
WDTN18EHSM	55	7/10/2024	12,355.6	12,567.8	48	MARCELLUS
WDTN18EHSM	56	7/10/2024	12,114.4	12,326.6	48	MARCELLUS
WDTN18EHSM	57	7/10/2024	11,873.2	12,085.4	48	MARCELLUS
WDTN18EHSM	58	7/11/2024	11,632.0	11,844.2	48	MARCELLUS
WDTN18EHSM	59	7/11/2024	11,390.8	11,603.0	48	MARCELLUS
WDTN18EHSM	60	7/12/2024	11,149.6	11,361.8	48	MARCELLUS
WDTN18EHSM	61	7/12/2024	10,908.4	11,120.6	48	MARCELLUS
WDTN18EHSM	62	7/13/2024	10,667.2	10,879.4	48	MARCELLUS
WDTN18EHSM	63	7/14/2024	10,426.0	10,638.2	48	MARCELLUS
WDTN18EHSM	64	7/14/2024	10,184.8	10,397.0	48	MARCELLUS
WDTN18EHSM	65	7/14/2024	9,943.6	10,155.8	48	MARCELLUS
WDTN18EHSM	66	7/15/2024	9,702.4	9,914.6	48	MARCELLUS
WDTN18EHSM	67	7/15/2024	9,461.2	9,673.4	48	MARCELLUS
WDTN18EHSM	68	7/15/2024	9,220.0	9,432.2	48	MARCELLUS
WDTN18EHSM	69	7/15/2024	8,978.8	9,191.0	48	MARCELLUS
WDTN18EHSM	70	7/15/2024	8,737.6	8,949.8	48	MARCELLUS
WDTN18EHSM	71	7/16/2024	8,496.4	8,708.6	48	MARCELLUS
WDTN18EHSM	72	7/16/2024	8,251.9	8,467.4	48	MARCELLUS

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Attachment 2: WDTN18EHSM 47-061-01948

wellname	IntRefNo	date_stim	avg_rate	avg_press	max_press	ISIP	Prop_Type	Prop_sz
WDTN18EHSM	1	6/15/2024	77	11,343.8	11,923.0	4,938.0	sand	100/100
WDTN18EHSM	2	6/17/2024	85	11,298.5	11,852.0	5,902.0	sand	100/100
WDTN18EHSM	3	6/17/2024	98	11,716.2	12,053.2	6,609.6	sand	100/100
WDTN18EHSM	4	6/18/2024	86	11,855.6	12,050.0	6,065.0	sand	100/100
WDTN18EHSM	5	6/18/2024	86	11,617.6	11,842.0	6,163.0	sand	100/100
WDTN18EHSM	6	6/18/2024	88	11,885.4	12,037.0	5,680.9	sand	100/100
WDTN18EHSM	7	6/18/2024	91	11,795.1	12,006.6	6,402.0	sand	100/100
WDTN18EHSM	8	6/19/2024	86	11,793.8	12,005.0	6,056.0	sand	100/100
WDTN18EHSM	9	6/19/2024	88	11,887.4	12,042.0	5,967.9	sand	100/100
WDTN18EHSM	10	6/20/2024	92	11,870.6	12,057.0	6,526.9	sand	100/100
WDTN18EHSM	11	6/20/2024	94	11,783.5	12,023.0	6,464.0	sand	100/100
WDTN18EHSM	12	6/20/2024	91	11,883.9	12,052.0	6,419.0	sand	100/100
WDTN18EHSM	13	6/20/2024	89	11,866.3	12,094.0	6,034.9	sand	100/100
WDTN18EHSM	14	6/28/2024	89	11,447.3	12,021.0	6,274.0	sand	100/100
WDTN18EHSM	15	6/28/2024	97	11,863.7	12,108.0	6,400.9	sand	100/100
WDTN18EHSM	16	6/29/2024	96	11,550.2	11,940.3	5,786.1	sand	100/100
WDTN18EHSM	17	6/29/2024	100	11,681.1	12,039.0	5,591.0	sand	100/100
WDTN18EHSM	18	6/29/2024	97	11,886.5	12,051.0	6,131.0	sand	100/100
WDTN18EHSM	19	6/30/2024	94	11,802.3	12,079.0	6,746.0	sand	100/100
WDTN18EHSM	20	6/30/2024	99	11,592.8	11,999.0	6,282.0	sand	100/100
WDTN18EHSM	21	6/30/2024	100	11,791.1	12,078.0	5,874.0	sand	100/100
WDTN18EHSM	22	7/1/2024	96	11,652.4	12,093.0	5,840.8	sand	100/100
WDTN18EHSM	23	7/1/2024	93	11,754.7	12,034.0	6,436.0	sand	100/100
WDTN18EHSM	24	7/1/2024	96	11,360.0	11,988.0	5,882.1	sand	100/100
WDTN18EHSM	25	7/1/2024	97	11,695.5	12,108.0	5,903.9	sand	100/100
WDTN18EHSM	26	7/2/2024	94	11,819.0	12,059.0	5,704.0	sand	100/100
WDTN18EHSM	27	7/2/2024	95	11,620.1	12,027.0	5,468.0	sand	100/100
WDTN18EHSM	28	7/2/2024	98	11,614.1	12,065.0	5,713.9	sand	100/100
WDTN18EHSM	29	7/2/2024	101	11,724.9	12,053.0	6,020.0	sand	100/100
WDTN18EHSM	30	7/3/2024	102	11,293.7	11,904.4	6,144.0	sand	100/100
WDTN18EHSM	31	7/3/2024	102	11,235.3	11,860.0	5,719.0	sand	100/100
WDTN18EHSM	32	7/3/2024	102	11,530.4	12,004.0	6,322.0	sand	100/100
WDTN18EHSM	33	7/4/2024	102	11,231.0	11,868.0	5,764.0	sand	100/100
WDTN18EHSM	34	7/4/2024	102	10,966.9	11,921.0	5,897.0	sand	100/100
WDTN18EHSM	35	7/4/2024	102	11,080.6	11,911.6	6,163.0	sand	100/100
WDTN18EHSM	36	7/5/2024	102	10,978.6	11,936.0	5,883.0	sand	100/100
WDTN18EHSM	37	7/5/2024	102	10,999.1	11,878.0	5,876.0	sand	100/100
WDTN18EHSM	38	7/5/2024	102	10,981.0	11,925.0	6,216.0	sand	100/100
WDTN18EHSM	39	7/6/2024	102	10,978.3	11,947.0	6,135.0	sand	100/100
WDTN18EHSM	40	7/6/2024	103	10,983.3	11,918.0	6,265.0	sand	100/100
WDTN18EHSM	41	7/6/2024	103	11,080.3	11,815.9	6,263.0	sand	100/100
WDTN18EHSM	42	7/6/2024	103	11,020.4	11,968.0	6,305.0	sand	100/100

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Attachment 2: WDTN18EHSM 47-061-01948

wellname	IntRefNo	date_stim	avg_rate	avg_press	max_press	ISIP	Prop_Type	Prop_sz
WDTN18EHSM	43	7/7/2024	102	10,409.1	11,895.0	5,860.0	sand	100/100
WDTN18EHSM	44	7/7/2024	103	11,361.6	11,879.0	6,175.1	sand	100/100
WDTN18EHSM	45	7/7/2024	103	11,127.1	12,001.0	6,202.0	sand	100/100
WDTN18EHSM	46	7/8/2024	103	10,930.6	11,873.0	5,541.1	sand	100/100
WDTN18EHSM	47	7/8/2024	103	10,721.3	11,885.0	6,070.0	sand	100/100
WDTN18EHSM	48	7/8/2024	103	10,665.4	11,919.0	5,690.0	sand	100/100
WDTN18EHSM	49	7/9/2024	103	10,430.5	11,939.0	5,953.0	sand	100/100
WDTN18EHSM	50	7/9/2024	103	10,284.8	11,892.0	5,153.1	sand	100/100
WDTN18EHSM	51	7/9/2024	103	10,226.1	11,902.0	5,914.0	sand	100/100
WDTN18EHSM	52	7/9/2024	103	10,373.9	11,965.0	6,074.9	sand	100/100
WDTN18EHSM	53	7/9/2024	103	10,669.1	11,943.0	6,307.0	sand	100/100
WDTN18EHSM	54	7/10/2024	103	10,363.3	11,999.0	6,068.9	sand	100/100
WDTN18EHSM	55	7/10/2024	103	10,347.9	11,751.0	6,052.0	sand	100/100
WDTN18EHSM	56	7/10/2024	103	10,210.6	11,872.0	6,016.0	sand	100/100
WDTN18EHSM	57	7/10/2024	104	10,255.4	10,594.0	5,762.0	sand	100/100
WDTN18EHSM	58	7/11/2024	103	10,370.3	11,630.0	5,733.9	sand	100/100
WDTN18EHSM	59	7/11/2024	103	10,121.8	11,637.0	6,212.1	sand	100/100
WDTN18EHSM	60	7/12/2024	104	10,147.3	11,472.0	6,311.0	sand	100/100
WDTN18EHSM	61	7/13/2024	104	9,928.2	11,045.0	6,195.0	sand	100/100
WDTN18EHSM	62	7/14/2024	103	10,089.6	10,811.0	6,004.0	sand	100/100
WDTN18EHSM	63	7/14/2024	103	9,991.6	11,401.0	5,868.0	sand	100/100
WDTN18EHSM	64	7/14/2024	104	10,316.7	10,917.0	5,951.0	sand	100/100
WDTN18EHSM	65	7/15/2024	104	10,098.7	11,648.0	5,950.0	sand	100/100
WDTN18EHSM	66	7/15/2024	104	10,327.8	11,526.0	5,861.9	sand	100/100
WDTN18EHSM	67	7/15/2024	104	10,124.7	11,468.0	6,224.0	sand	100/100
WDTN18EHSM	68	7/15/2024	104	10,356.0	11,042.0	5,811.0	sand	100/100
WDTN18EHSM	69	7/15/2024	104	10,086.0	11,592.0	6,214.0	sand	100/100
WDTN18EHSM	70	7/16/2024	104	9,866.4	11,394.0	5,968.0	sand	100/100
WDTN18EHSM	71	7/16/2024	104	9,631.1	10,890.0	5,842.9	sand	100/100
WDTN18EHSM	72	7/16/2024	104	9,814.9	11,319.4	5,850.0	sand	100/100

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