

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

API 47 - 061 - 01871 County MONONGALIA District BATTELLE  
Quad WADESTOWN Pad Name WDTN5 Field/Pool Name \_\_\_\_\_  
Farm name WISE Well Number WDTN5WHSM  
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 4395424.622 Easting 556816.641  
Landing Point of Curve Northing 4395437.652 Easting 557042.646  
Bottom Hole Northing 4396998.740 Easting 555912.755

Elevation (ft) 1,390' 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 04.19.2021 Date drilling commenced 05.07.2022 (spud) Date drilling ceased 07.13.2022  
Date completion activities began 11.22.2022 Date completion activities ceased 12.02.2022  
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

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Freshwater depth(s) ft Shallowest: 125' Deepest: 1070' Open mine(s) (Y/N) depths N WV Department of  
Salt water depth(s) ft 2115', 2565' Void(s) encountered (Y/N) depths N Environmental Protection  
Coal depth(s) ft 709'-712', 970'-976', 1058'-1062', 1063'-1070' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**APPROVED**

Reviewed by:  
*[Signature]*  
03/17/2023

API 47- 061 - 01871 Farm name WISE Well number WDTN5WHSM

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"	1,339'	NEW	J-55 54.5lb/ft	N/A	Y - CEMENT TO SURFACE
Coal							
Intermediate 1	12.25"	9.625"	2,965'	NEW	J-55 36lb/ft	N/A	Y - CEMENT TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75" & 8.5"	5.5"	14,969'	NEW	P-110 20lb/ft	N/A	Y - TOC @ 1,725'
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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	HALCEM	1,000	15.8	1.17	1,170	Surface	8
Coal							
Intermediate 1	HALCEM	960	15.8	1.147	1,101	Surface	8
Intermediate 2							
Intermediate 3							
Production	EXPANDING / NEOCEM	1,285 (LEAD) / 1,855 (TAIL)	15.0 / 15.0	1.127 (LEAD) / 1.123 (TAIL)	1,448 (LEAD) / 2,083(TAIL)	1,725'	8
Tubing							

Drillers TD (ft) 15,006' Loggers TD (ft) 15,006'

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

Plug back procedure N/A

Kick off depth (ft) 7,554' (MD) 7,303' (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 3rd joint from shoe to surface

INTERMEDIATE: Centralize every other joint from shoe to surface

PRODUCTION: Centralize every joint from shoe to TOC

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS plug and perforation

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WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

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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				

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>8,016'</u>	<u>TVD</u>	<u>11,307'</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 1900 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 5040 mcfpd Oil 0 bpd NGL 0 bpd Water 2784 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

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

Please insert additional pages as applicable.

Drilling Contractor PATTERSON-UTI DRILLING COMPANY  
Address 100 GALAWAY DRIVE City EIGHTY FOUR State PA Zip 15330

Logging Company SCHLUMBERGER  
Address 3600 BRIARPARK DRIVE City HOUSTON State TX Zip 77042

Cementing Company HALLIBURTON  
Address 1000 NOBLE ENERGY DRIVE, SUITE 400 City CANONSBURG State PA Zip 15317

Stimulating Company EVOLUTION WELL 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 304-406-3909  
Signature *Mike Honce / jmy* Title Superintendent Completions Operations Date 01.25.2023

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

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ATTACHMENT 1: WDTN5WHSM 47-061-01871

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN5WHSM	32	12/2/2022	8,635.09	8,796.29	40	Marcellus Shale
WDTN5WHSM	31	12/1/2022	8,834.09	8,995.29	40	Marcellus Shale
WDTN5WHSM	30	12/1/2022	9,033.09	9,194.29	40	Marcellus Shale
WDTN5WHSM	29	11/30/2022	9,232.09	9,393.29	40	Marcellus Shale
WDTN5WHSM	28	11/30/2022	9,431.09	9,592.29	40	Marcellus Shale
WDTN5WHSM	27	11/29/2022	9,630.09	9,791.29	40	Marcellus Shale
WDTN5WHSM	26	11/29/2022	9,829.09	9,990.29	40	Marcellus Shale
WDTN5WHSM	25	11/28/2022	10,028.09	10,189.30	40	Marcellus Shale
WDTN5WHSM	24	11/28/2022	10,227.09	10,388.30	40	Marcellus Shale
WDTN5WHSM	23	11/27/2022	10,426.09	10,587.30	40	Marcellus Shale
WDTN5WHSM	22	11/27/2022	10,625.09	10,786.30	40	Marcellus Shale
WDTN5WHSM	21	11/27/2022	10,824.09	10,985.30	40	Marcellus Shale
WDTN5WHSM	20	11/26/2022	11,023.19	11,185.20	40	Marcellus Shale
WDTN5WHSM	19	11/26/2022	11,223.19	11,385.20	40	Marcellus Shale
WDTN5WHSM	18	11/26/2022	11,423.19	11,585.20	40	Marcellus Shale
WDTN5WHSM	17	11/25/2022	11,623.19	11,785.20	40	Marcellus Shale
WDTN5WHSM	16	11/25/2022	11,823.19	11,985.20	40	Marcellus Shale
WDTN5WHSM	15	11/25/2022	12,023.19	12,185.20	40	Marcellus Shale
WDTN5WHSM	14	11/25/2022	12,223.19	12,385.20	40	Marcellus Shale
WDTN5WHSM	13	11/25/2022	12,423.19	12,585.20	40	Marcellus Shale
WDTN5WHSM	12	11/24/2022	12,623.19	12,785.20	40	Marcellus Shale
WDTN5WHSM	11	11/24/2022	12,823.19	12,985.20	40	Marcellus Shale
WDTN5WHSM	10	11/24/2022	13,023.19	13,185.20	40	Marcellus Shale
WDTN5WHSM	9	11/24/2022	13,223.19	13,385.20	40	Marcellus Shale
WDTN5WHSM	8	11/23/2022	13,423.19	13,585.20	40	Marcellus Shale
WDTN5WHSM	7	11/23/2022	13,623.19	13,785.20	40	Marcellus Shale
WDTN5WHSM	6	11/23/2022	13,823.19	13,985.20	40	Marcellus Shale
WDTN5WHSM	5	11/23/2022	14,023.19	14,185.20	40	Marcellus Shale
WDTN5WHSM	4	11/23/2022	14,223.19	14,385.20	40	Marcellus Shale
WDTN5WHSM	3	11/23/2022	14,423.19	14,585.20	40	Marcellus Shale
WDTN5WHSM	2	11/22/2022	14,623.19	14,785.20	40	Marcellus Shale
WDTN5WHSM	1	11/22/2022	14,844.19	14,942.40	24	Marcellus Shale

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ATTACHMENT 2: WDTN5WHSM 47-061-01871

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)
WDTN5WHSM	1	11/22/2022	96	8,886.00	9,753.00	5,220.00	488,390.10	8,899.81
WDTN5WHSM	2	11/22/2022	98	9,378.00	7,266.00	5,331.00	492,904.80	8,245.05
WDTN5WHSM	3	11/23/2022	92	8,810.00	7,150.00	5,896.00	486,360.00	8,449.67
WDTN5WHSM	4	11/23/2022	91	8,957.00	7,045.00	5,815.00	481,602.90	7,674.98
WDTN5WHSM	5	11/23/2022	87	8,909.00	7,449.00	5,981.00	475,984.90	7,722.98
WDTN5WHSM	6	11/23/2022	87	8,906.00	6,770.00	5,737.00	473,358.70	7,893.69
WDTN5WHSM	7	11/23/2022	87	8,949.00	6,986.00	5,537.00	478,177.00	7,893.62
WDTN5WHSM	8	11/23/2022	87	9,117.00	6,997.00	5,872.00	490,408.30	7,969.81
WDTN5WHSM	9	11/24/2022	90	8,831.00	6,390.00	5,948.00	480,520.00	7,871.00
WDTN5WHSM	10	11/24/2022	89	8,627.00	6,527.00	6,074.00	478,940.00	8,735.05
WDTN5WHSM	11	11/24/2022	88	8,901.00	7,528.00	6,176.00	488,182.00	7,771.43
WDTN5WHSM	12	11/24/2022	88	8,805.00	6,692.00	6,177.00	492,853.70	7,844.38
WDTN5WHSM	13	11/25/2022	90	8,521.00	6,932.00	6,110.00	485,569.60	7,803.31
WDTN5WHSM	14	11/25/2022	91	8,636.00	6,843.00	5,970.00	480,800.00	7,572.00
WDTN5WHSM	15	11/25/2022	90	8,741.00	7,210.00	5,704.00	475,920.00	7,523.07
WDTN5WHSM	16	11/25/2022	89	8,776.00	6,877.00	5,771.00	483,022.20	7,694.52
WDTN5WHSM	17	11/26/2022	88	8,598.00	6,872.00	6,030.00	477,934.50	7,591.69
WDTN5WHSM	18	11/26/2022	90	8,605.00	7,123.00	5,930.00	480,340.00	7,602.02
WDTN5WHSM	19	11/26/2022	90	8,676.00	6,994.00	5,955.00	476,780.00	7,457.05
WDTN5WHSM	20	11/27/2022	87	8,908.00	7,690.00	4,954.00	390,775.50	6,979.31
WDTN5WHSM	21	11/27/2022	90	8,744.00	6,914.00	5,807.00	425,880.00	7,254.02
WDTN5WHSM	22	11/27/2022	89	8,177.00	7,208.00	6,094.00	466,122.50	7,912.40
WDTN5WHSM	23	11/28/2022	90	8,206.00	7,007.00	5,903.00	480,690.00	7,434.98
WDTN5WHSM	24	11/28/2022	89	8,643.00	7,288.00	5,902.00	419,259.50	7,275.05
WDTN5WHSM	25	11/29/2022	91	8,236.00	7,673.00	5,854.00	479,895.00	7,415.00
WDTN5WHSM	26	11/29/2022	88	8,344.00	8,164.00	0.00	465,577.30	7,340.57
WDTN5WHSM	27	11/30/2022	89	8,532.00	7,312.00	6,014.00	478,908.90	8,791.71
WDTN5WHSM	28	11/30/2022	89	8,306.00	7,171.00	5,369.00	479,276.80	7,667.02
WDTN5WHSM	29	12/1/2022	90	8,257.00	7,300.00	6,157.00	490,662.00	7,629.98
WDTN5WHSM	30	12/1/2022	89	8,104.00	7,164.00	6,283.00	494,138.50	8,095.00
WDTN5WHSM	31	12/1/2022	88	8,227.00	8,311.00	5,843.00	484,990.70	7,892.98
WDTN5WHSM	32	12/2/2022	89	8,200.00	7,866.00	6,028.00	413,698.70	7,530.93

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## LITHOLOGIES

All depths referenced to GL

LITHOLOGY / FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT NAME TVD	TOP DEPTH IN FT NAME MD	BOTTOM DEPTH IN FT NAME MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
UNDIFFERENTIATED SAND	0	411	0	411	SANDSTONE / SILTSTONE / TRACES OF LIMESTONE
UNDIFFERENTIATED LIMESTONE	411	441	411	441	LIMESTONE / SANDSTONE
UNDIFFERENTIATED SAND	441	481	441	481	SANDSTONE / LIMESTONE
UNDIFFERENTIATED SILT	481	801	481	801	SILTSTONE / LIMESTONE / TRACES SANDSTONE & RED SHALE
WAYNESBURG	801	803	801	803	COAL / SILTSTONE / SANDSTONE
UNDIFFERENTIATED SILT	803	821	803	821	SILTSTONE / SANDSTONE
UNDIFFERENTIATED SAND	821	921	821	921	SANDSTONE
UNDIFFERENTIATED SILT	921	971	921	971	SILTSTONE / LIMESTONE
UNIDFFER. LIMESTONE / SILT	971	1,141	971	1,141	LIMESTONE / SILTSTONE
PITTSBURGH COAL	1,141	1,151	1,141	1,151	COAL / LIMESTONE / SILTSTONE
UNDIFFERENTIATED LIMESTONE	1,151	1,201	1,151	1,201	LIMESTONE / SILTSTONE
UNDIFFERENTIATED SILT	1,201	1,371	1,201	1,371	SILTSTONE / LIMESTONE / RED SHALE
UNDIFFERENTIATED SILT	1,371	1,701	1,371	1,701	SILTSTONE / SANDSTONE
UPPER FREEPORT	1,701	1,711	1,701	1,711	SANDSTONE
UNDIFFERENTIATED SAND	1,711	1,781	1,711	1,781	SANDSTONE
LOWER FREEPORT	1,781	1,791	1,781	1,791	SANDSTONE / SILTSTONE / TRACES OF COAL
UNDIFFERENTIATED SAND	1,791	1,883	1,791	1,883	SANDSTONE / SILTSTONE / TRACES OF COAL
MIDDLE KITTANING	1,883	1,889	1,883	1,889	SANDSTONE / SILTSTONE / TRACES OF COAL
UNDIFFERENTIATED SAND	1,889	2,071	1,889	2,071	SANDSTONE / SILTSTONE / TRACES OF COAL
UNDIFFERENTIATED SILT	2,071	2,251	2,071	2,251	SILTSTONE / TRACES OF COAL
UNDIFFERENTIATED SAND	2,251	2,271	2,251	2,271	SANDSTONE
UNDIFFERENTIATED SILT	2,271	2,311	2,271	2,311	SILTSTONE
UNDIFFERENTIATED SHALE	2,311	2,351	2,311	2,351	RED SHALE
UNDIFFERENTIATED SILT	2,351	2,391	2,351	2,391	SILTSTONE / RED SHALE
BIG LIME	2,391	2,451	2,391	2,451	LIMESTONE / SILTSTONE
KEENER	2,451	2,481	2,451	2,481	SANDSTONE / SILTSTONE
BIG INJUN	2,481	2,661	2,481	2,661	SANDSTONE
BIG INJUN BASE	2,661	3,051	2,661	3,051	SILTSTONE
50 FOOT	3,051	3,111	3,051	3,111	SILTSTONE
GORDON	3,111	3,276	3,111	3,276	SANDSTONE / SILTSTONE
FIFTH	3,276	3,323	3,276	3,323	SILTSTONE
BAYARD	3,323	5,261	3,323	5,261	SILTSTONE / TRACES RED & GREY SHALES
ELK	5,261	7,413	5,261	7,704	SILTSTONE / GREY SHALE
RHIESTREET	7,413	7,649	7,704	7,971	GREY SHALE
CASHAQUA	7,649	7,760	7,971	8,065	GREY SHALE
BURKET	7,760	7,789	8,065	8,109	GREY SHALE
TULLY	7,789	7,826	8,109	8,170	LIMESTONE / GRAY SHALE
HAMILTON	7,826	7,947	8,170	8,442	GREY SHALE
MARCELLUS	7,947	7,977	8,442	7,546	BLACK SHALE
CHERRY VALLEY	7,977	7,982	8,546	8,562	BLACK SHALE
TD (MARCELLUS)				15,005	

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/22/2022
Job End Date:	12/2/2022
State:	West Virginia
County:	Monongalia
API Number:	47-061-01871-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	WDTN5WHSM
Latitude:	39.70679100
Longitude:	-80.33721400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,303
Total Base Water Volume (gal):	10,458,462
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	85.05315	None
Sand	US Silica	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	14.71791	None
HCL Acid (28%)	CHEMSTREAM	Acidizing	Hydrochloric Acid	7647-01-0	28.00000	0.03620	None
StimSTREAM 9800	CHEMSTREAM	Friction Reducer	Butene, homopolymer	9003-29-6	25.00000	0.01215	None
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01215	None
			Ethoxylated alcohols	68213-23-0	3.00000	0.00146	None
OilSTREAM VB 625	CHEMSTREAM	Gelling Agent	Heavy Aliphatic Naphtha	64742-96-7	60.00000	0.00594	None
			Guar Gum	9000-30-0	50.00000	0.00495	None
			Trade Secret	9043-30-5	5.00000	0.00050	None
			Trade Secret	1338-43-8	3.00000	0.00030	None
			Trade Secret	14808-60-7	3.00000	0.00030	None
Clearal 268	CHEMSTREAM	Biocide					

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			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	0.00134	None
Ammonium Persulfate	CHEMSTREAM	Breaker					
			Ammonium Persulfate	7727-54-0	100.00000	0.00071	None
ACI-250	CHEMSTREAM	Acid corrosion inhibitor					
			Methanol	67-56-1	45.00000	0.00027	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
Citric Acid 50%	CHEMSTREAM	Iron Control Agent					
			citric acid	77-92-9	50.50000	0.00041	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	0.01215	
			Guar Gum	9000-30-0	50.00000	0.00495	
			Ethoxylated alcohols	68213-23-0	3.00000	0.00146	
			Trade Secret	9043-30-5	5.00000	0.00050	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00033	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00033	
			Trade Secret	1338-43-8	3.00000	0.00030	
			Trade Secret	14808-60-7	3.00000	0.00030	
			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	
			CHEMSTREAM-OXIDIZER-10001	Trade Secret	3.00000		
			CHEMSTREAM-SURFACTANT-10002	Trade Secret	0.90000		

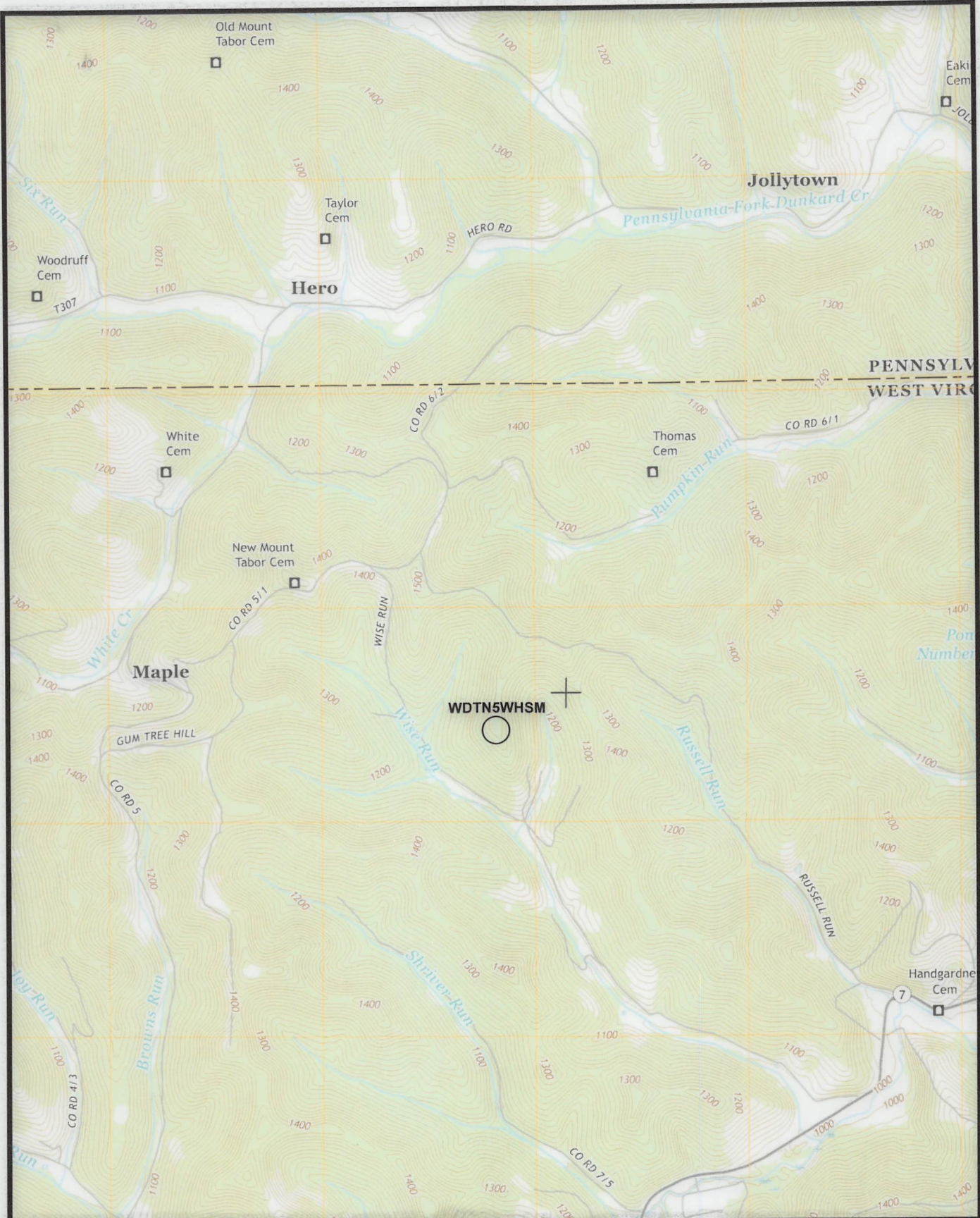
\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* 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)

RECEIVED  
 Office of Oil and Gas  
 JAN 30 2023  
 WV Department of  
 Environmental Protection



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: January 21, 2021, Revised: September 14, 2022

OPERATOR'S WELL #: WDTN5WHSM

API WELL # 47 061 01871  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: DUNKARD CREEK ELEVATION: 1412'  
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV  
 SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36  
 OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

03/17/2023

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,035' TMD: 15,085'  
 WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: ANTHONY KENDZIORA  
 Address: 1000 CONSOL ENERGY DRIVE Address: 1000 CONSOL ENERGY DRIVE  
 City CANONSBURG State PA Zip Code 15317 City CANONSBURG State PA Zip Code 15317

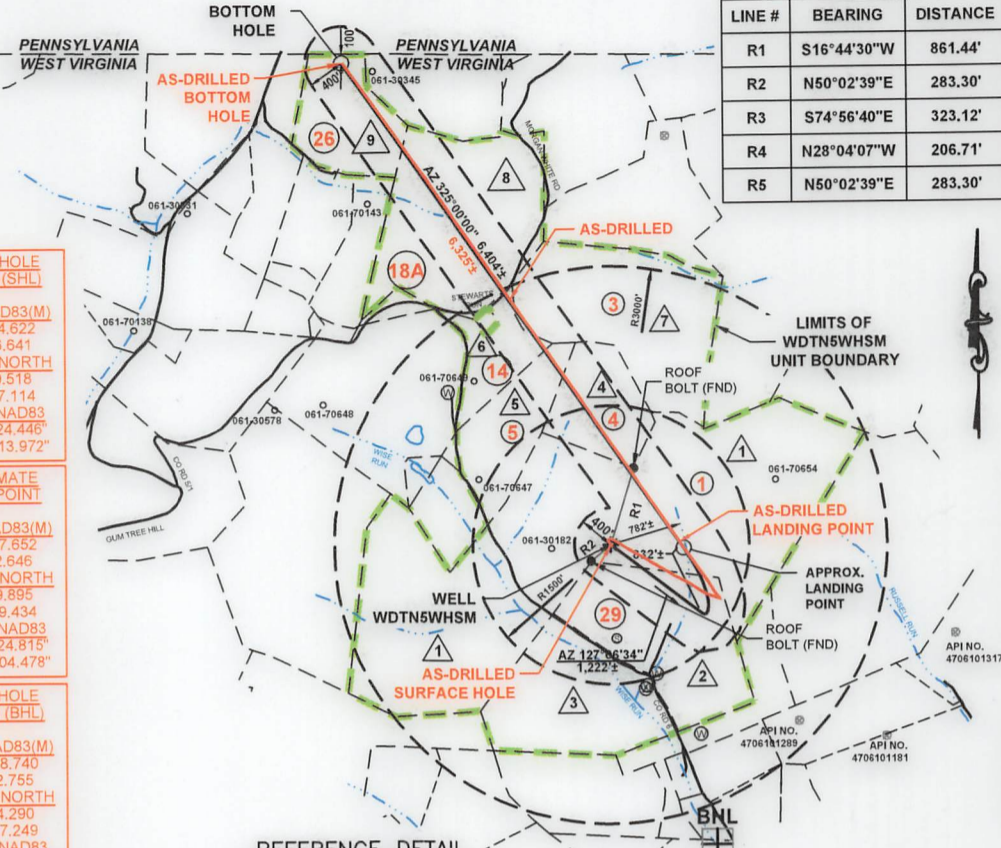
SHL is located on topo map 561 feet south of Latitude: 39° 42' 30" SHL  
 BHL is located on topo map 10,505 feet south of Latitude: 39° 45' 00"

**WELL HEAD DETAIL**

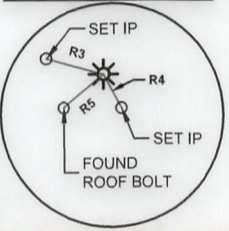


SURFACE HOLE LOCATION (SHL)	
UTM 17 - NAD83(M) N: 4395424.622 E: 556816.641 NAD27_VV NORTH N: 440609.518 E: 1764397.114 LAT/LON - NAD83 LAT: 39°42'24.446" LON: 80°20'13.972"	UTM 17 - NAD83(M) N: 4395424.622 E: 556816.641 NAD27_VV NORTH N: 440609.518 E: 1764397.114 LAT/LON - NAD83 LAT: 39°42'24.446" LON: 80°20'13.972"
APPROXIMATE LANDING POINT	
UTM 17 - NAD83(M) N: 4395417.015 E: 557055.533 NAD27_VV NORTH N: 440571.471 E: 1765180.593 LAT/LON - NAD83 LAT: 39°42'24.142" LON: 80°20'03.943"	UTM 17 - NAD83(M) N: 4395437.652 E: 557042.646 NAD27_VV NORTH N: 440639.895 E: 1765139.434 LAT/LON - NAD83 LAT: 39°42'24.815" LON: 80°20'04.478"
BOTTOM HOLE LOCATION (BHL)	
UTM 17 - NAD83(M) N: 4396996.625 E: 555909.754 NAD27_VV NORTH N: 445817.514 E: 1761507.287 LAT/LON - NAD83 LAT: 39°43'15.650" LON: 80°20'51.575"	UTM 17 - NAD83(M) N: 4396998.740 E: 555912.755 NAD27_VV NORTH N: 445824.290 E: 1761517.249 LAT/LON - NAD83 LAT: 39°43'15.717" LON: 80°20'51.448"

LINE TABLE		
LINE #	BEARING	DISTANCE
R1	S16°44'30"W	861.44'
R2	N50°02'39"E	283.30'
R3	S74°56'40"E	323.12'
R4	N28°04'07"W	206.71'
R5	N50°02'39"E	283.30'



**REFERENCE DETAIL**



LEGEND	
	TOPO MAP POINT
	PROPOSED WELL
	WATER SOURCE
	SPRING
	SURFACE TRACT
	LEASED NUMBER BASED ON ATTACHED WDTN5W
	WELLS WITHIN 3000'
	RECORD GAS WELL
	UNKNOWN WELL
	ALL ARE POINTS UNLESS OTHERWISE NOTED
	LEASE BOUNDARY
	PROPOSED HORIZONTAL WELL
	SURFACE, OIL & GAS LINES
	SURFACE TRACT LINES ONLY
	GAS LEASE LINES ONLY
	WELL REFERENCE
	STREAM/WATERWAY
	ROAD
	FORCED POOLING AREAS
	AS-DRILLED HORIZONTAL WELL

**AS-DRILLED PLAT**  
 Sheffler & Company, Inc.  
 ENGINEERING • SURVEYING

1712 Mount Nebo Road Phone: 412-219-4509  
 Sewickley, PA 15143 Email: Info@shefflerCo.com

- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
  - There are no existing buildings within 625' of proposed well.
  - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
  - There are no native trout streams within 300' of proposed well.
  - Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
  - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

FILE #: WDTN5WHSM  
 DRAWING #: 3601 - WDTN5W - AD.DWG  
 SCALE: 1"=2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE USGS MONUMENT  
 OF ELEVATION: JX1864: 1,496.32'

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.

SIGNED:

R.P.E.: \_\_\_\_\_ L.L.S.: P.S. NO. \_\_\_\_\_



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
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 CHARLESTON, WV 25304



DATE: January 21, 2021, Revised: September 14, 2022  
 OPERATOR'S WELL #: WDTN5WHSM  
 API WELL # 47 061 01871  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: DUNKARD CREEK ELEVATION: 1390'  
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: WADESTOWN, WV  
 SURFACE OWNER: JOHN M. WISE, ET UX., ET AL. ACREAGE: 207.36  
 OIL & GAS ROYALTY OWNER: RICHARD W. WISE, ET AL. ACREAGE: 207.36

03/17/2023

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 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,035' TMD: 15,085'  
 WELL OPERATOR: CNX GAS COMPANY, LLC DESIGNATED AGENT: ANTHONY KENDZIORA  
 Address: 1000 CONSOL ENERGY DRIVE Address: 1000 CONSOL ENERGY DRIVE  
 City CANONSBURG State PA Zip Code 15317 City CANONSBURG State PA Zip Code 15317

**SURFACE TRACT OWNERS & TAX PARCEL**

- 1. DINA M WISE ET AL TM# 1-8-2
- 2. BARBARA J WAGNER TM# 1-8-3.1
- 3. BARBARA WAGNER TM# 1-8-3
- 4. EDWARD L THOMAS, DAVID WAYNE & DOROTHY L STEWART TM# 1-8-1.3
- 5. DAVID W & ELIZABETH K DEATON TM# 1-8-1.2
- 6. STEVEN M MACYDA TM# 1-3-3.1
- 7. JAMES EDWARD TAYLOR & EARL LYNN TM# 1-3-4
- 8. CNX LAND LLC TM# 1-3-2
- 9. ROY L HALL TM# 1-2-20

Tract ID	Tax Map & Parcel	Grantor, Lessor, etc	Surface Owner
1	1-8-2	Richard L. McCauley	Dina M Wise et al
		Judy A. Eckman	
		Thomas E. McCauley	
		Regina Wise Myers, aka Violet Regina Myers	
		Evalee A. Everly Shaheen	
		Zelda Ruth Brummage	
		Dexter Murle Stewart	
		Walter C. Ord	
		James Freeman Stewart	
		Clifford J. Wise	
		Victor E. Wise, a single man	
		Jesse D. Jones, a married man	
		Phyllis J. Petrosky, a widowed woman	
		Annette E. Stewart, single	
		Harold M. Jones, Jr., a single man	
		Robert Stewart	
		Richard W. Wise	
		Walter R. Currence	
		Donald D. Wise, aka Donald G. Wise	
		Maureen S. Currence	
		Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen	
		Michelle L. Currence	
		Justin P. Stewart, single	
		Debra Goff	
		Eleanor J. Wise, single	
		Donald E. Nunley and Deborah L. Nunley	
		Fred C. Wise and Alice F. Wise	
		Patricia J. Mumaw and Richard L. Mumaw	
Richard A. Nunley and Diana K. Nunley			
Mary Nunley Stepelton and Donald Stepelton			
Linda Stapp			
Melissa A. Bookout			
Jane Irons, widow			
Eileen Ann Lyle			
Robert Eugene Michael, Sr.			
Frank Dennis Michael, Jr.			
Evelyn June Michael			
Tonya Chersin			
Boyd Hawkins			
Becky L. Hawkins f/k/a Becky Bortnick			
Opal Jane Wise, Life Estate Holder and John Matthew Wise and Dina M. Wise, Remaindermen			
3	1-3-4	James Edward Taylor & Susan L. Taylor, h/w	James Edward Taylor & Earl Lynn
		Earl Lynn Taylor	
		Harland Thomas	
		David E. Thomas	
4	1-8-1.3	CBC Holdings, LLC	Edward L. Thomas, David Wayne & Dorothy L. Stewart
		Dorothy L. Stewart and Harold L. Stewart Jr.	
		David Wayne Thomas	
		Edward L. Thomas and Diana Lee Thomas	
5	1-8-1.2	CBC Holdings, LLC	David W & Elizabeth K Deaton
		David W. Deaton and Elizabeth K. Deaton, h/w	
14	1-3-3.1	CBC Holdings, LLC	Steven M Macyda
		Steven M. Macyda	
18A	p/o 1-3-2	David C. White, et ux	CNX Land LLC
		Bettyann Reed	
		Nancy Emerick	
		Edith B. White	
		Mary Ann Borkowski, et vir	
		Jan W. Ellison, et vir	
		Jane E. McIntyre, et vir	
		Richard H. Benson II	
		Carol Sue Davis	
		Karen Imogene Meyers	
		Edwin Ray White II	
		Anita Susan Talbott	
		Alvy Scott White	
		Robert L. Tate Jr.	
		Frederick C. Tate	
		Robert S. Elliot	
		Lucy Mae Stickle	
		Timothy J. Tate	
		Alex Tate	
		Jennifer Marie Carrington	
		Marian Rebecca Stone Garrett	
		Patricia Kathleen White Hoekstra	
		Donald Edward Stone	
Doris Jean White			
David Ray Stone			
Victor White			
Melinda Reid Hatton			
Dennis Frederick Hatton Jr.			
Amanda Hatton			
26	1-2-20	Merrion Oil and Gas Corporation	Roy L Hall
		Hu's Land & Minerals, LLC	
29	1-8-3 1-8-3.1	Barbara J. Wagner, a widow	Barbara J Wagner
		Donald L. White, et al	
		Arnold D. Anderson, individually, and as Trustee of the Arnold D. Anderson and Barbara J. Anderson Living Trust UTD May 14th, 2008	

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