

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

API 47 - 061 - 01873 County MONONGALIA District BATTELLE
Quad WADESTOWN Pad Name WDTN5 Field/Pool Name _____
Farm name WISE Well Number WDTN5ZHSM
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 4395419.371 Easting 556823.472
Landing Point of Curve Northing 4395506.832 Easting 557753.767
Bottom Hole Northing 4397001.621 Easting 556658.650

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 08.06.2022
Date completion activities began 11.22.2022 Date completion activities ceased 12.06.2022
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug JAN 30 2023

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 - 01873 Farm name WISE Well number WDTN5ZHSM

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"	1,320'	NEW	J-55 54.5lb/ft	N/A	Y - CEMENT TO SURFACE
Coal							
Intermediate 1	12.25"	9.625"	2,966'	NEW	J-55 36lb/ft	N/A	Y - CEMENT TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.75" & 8.5"	5.5"	15,588'	NEW	P-110 20lb/ft	N/A	Y - TOC @ 953'
Tubing							
Packer type and depth set							

Comment Details ALL DEPTHS ARE REFERENCED GLE = -28' KB

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	HALCEM	1,000	15.8	1.17	1,170	Surface	8
Coal							
Intermediate 1	HALCEM	960	15.8	1.15	1,104	Surface	8
Intermediate 2							
Intermediate 3							
Production	EXPANDING / NEOCEM	1,460 (LEAD) / 1,830 (TAIL)	15.0 / 15.0	1.13 (LEAD) / 1.12 (TAIL)	1,650 (LEAD) / 2,050 (TAIL)	953'	8
Tubing							

Drillers TD (ft) 15,610' Loggers TD (ft) 15,610'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 8,072' (MD) 7,066' (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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Plug and Perforation

WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 061 - 01873 Farm name WISE Well number WDTN5ZHSM

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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Please insert additional pages as applicable.

API 47- 061 - 01873 Farm name WISE Well number WDTN5ZHSM

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>8,047'</u>	<u>TVD</u>	<u>14,494'</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 2300 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 7617.62 mcfpd Oil 0 bpd NGL 0 bpd Water 2112 bpd GAS MEASURED BY Estimated Orifice Pilot

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

Please insert additional pages as applicable.

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

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

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

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

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Please insert additional pages as applicable.

Completed by MIKE HONCE Telephone 304-406-3909
Signature *Mike Honce* Title Superintendent Completions Operations Date 01.25.2023

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

03/17/2023

ATTACHMENT 1: WDTN5ZHSM 47-061-01873

Well Name	Perf Stage Numer	Date	Top Depth	Bottom Depth	Perfs Open	Reservoir Zone
WDTN5ZHSM	31	12/6/2022	9,469.81	9,631.81	40	Marcellus Shale
WDTN5ZHSM	30	12/5/2022	9,669.81	9,831.81	40	Marcellus Shale
WDTN5ZHSM	29	12/5/2022	9,869.81	10,031.80	40	Marcellus Shale
WDTN5ZHSM	28	12/5/2022	10,069.81	10,231.80	40	Marcellus Shale
WDTN5ZHSM	27	12/5/2022	10,269.71	10,430.90	40	Marcellus Shale
WDTN5ZHSM	26	12/5/2022	10,468.71	10,629.90	40	Marcellus Shale
WDTN5ZHSM	25	12/4/2022	10,667.71	10,828.90	40	Marcellus Shale
WDTN5ZHSM	24	12/4/2022	10,866.71	11,027.90	40	Marcellus Shale
WDTN5ZHSM	23	12/4/2022	11,065.71	11,226.90	40	Marcellus Shale
WDTN5ZHSM	22	12/3/2022	11,264.71	11,425.90	40	Marcellus Shale
WDTN5ZHSM	21	12/3/2022	11,463.71	11,624.90	40	Marcellus Shale
WDTN5ZHSM	20	12/2/2022	11,662.71	11,823.90	40	Marcellus Shale
WDTN5ZHSM	19	12/2/2022	11,861.71	12,022.90	40	Marcellus Shale
WDTN5ZHSM	18	12/1/2022	12,060.71	12,221.90	40	Marcellus Shale
WDTN5ZHSM	17	12/1/2022	12,259.71	12,420.90	40	Marcellus Shale
WDTN5ZHSM	16	12/1/2022	12,458.71	12,619.90	40	Marcellus Shale
WDTN5ZHSM	15	11/30/2022	12,657.71	12,818.90	40	Marcellus Shale
WDTN5ZHSM	14	11/30/2022	12,856.71	13,017.90	40	Marcellus Shale
WDTN5ZHSM	13	11/29/2022	13,055.71	13,216.90	40	Marcellus Shale
WDTN5ZHSM	12	11/29/2022	13,254.71	13,415.90	40	Marcellus Shale
WDTN5ZHSM	11	11/28/2022	13,453.71	13,614.90	40	Marcellus Shale
WDTN5ZHSM	10	11/28/2022	13,652.71	13,813.90	40	Marcellus Shale
WDTN5ZHSM	9	11/27/2022	13,851.71	14,012.90	40	Marcellus Shale
WDTN5ZHSM	8	11/27/2022	14,050.71	14,211.90	40	Marcellus Shale
WDTN5ZHSM	7	11/27/2022	14,249.71	14,410.90	40	Marcellus Shale
WDTN5ZHSM	6	11/26/2022	14,448.71	14,609.90	40	Marcellus Shale
WDTN5ZHSM	5	11/26/2022	14,647.71	14,808.90	40	Marcellus Shale
WDTN5ZHSM	4	11/26/2022	14,846.71	15,007.90	40	Marcellus Shale
WDTN5ZHSM	3	11/25/2022	15,045.71	15,206.90	40	Marcellus Shale
WDTN5ZHSM	2	11/23/2022	15,244.71	15,405.90	40	Marcellus Shale
WDTN5ZHSM	1	11/22/2022	15,464.81	15,561.60	24	Marcellus Shale

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ATTACHMENT 2: WDTN5ZHSM 47-061-01873

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)
WDTN5ZHSM	1	11/22/2022	99	9,408.00	7,673.00	5,347.00	478,913.40	8,578.64
WDTN5ZHSM	2	11/25/2022	87	8,895.00	6,857.00	6,058.00	457,516.80	8,096.48
WDTN5ZHSM	3	11/25/2022	87	8,897.00	7,325.00	6,022.00	469,188.50	8,164.98
WDTN5ZHSM	4	11/26/2022	90	8,989.00	7,684.00	6,023.00	480,460.00	8,128.95
WDTN5ZHSM	5	11/26/2022	90	8,619.00	7,810.00	5,892.00	484,000.00	8,023.93
WDTN5ZHSM	6	11/26/2022	85	8,528.00	7,118.00	6,310.00	482,293.00	9,192.29
WDTN5ZHSM	7	11/27/2022	91	8,636.00	7,429.00	5,957.00	480,660.00	7,737.98
WDTN5ZHSM	8	11/27/2022	87	8,896.00	7,265.00	6,149.00	477,023.20	8,552.60
WDTN5ZHSM	9	11/28/2022	86	8,615.00	7,157.00	6,070.00	488,225.90	7,727.00
WDTN5ZHSM	10	11/28/2022	87	8,884.00	5,993.00	6,141.00	465,810.40	7,674.10
WDTN5ZHSM	11	11/29/2022	85	8,685.00	7,446.00	6,136.00	473,223.30	7,779.19
WDTN5ZHSM	12	11/29/2022	92	8,608.00	7,652.00	6,063.00	482,196.60	7,587.98
WDTN5ZHSM	13	11/30/2022	88	8,661.00	7,700.00	6,158.00	484,655.50	7,769.00
WDTN5ZHSM	14	11/30/2022	90	8,771.00	7,616.00	6,113.00	482,120.20	7,774.05
WDTN5ZHSM	15	11/30/2022	89	8,580.00	7,572.00	6,392.00	475,922.60	7,894.45
WDTN5ZHSM	16	12/1/2022	87	8,662.00	7,946.00	6,391.00	483,031.80	7,778.02
WDTN5ZHSM	17	12/1/2022	89	8,626.00	6,939.00	5,935.00	495,383.30	7,902.95
WDTN5ZHSM	18	12/2/2022	87	8,754.00	7,542.00	6,093.00	491,483.10	7,723.95
WDTN5ZHSM	19	12/2/2022	88	8,723.00	7,644.00		400,585.60	6,816.98
WDTN5ZHSM	20	12/2/2022	89	8,602.00	6,943.00	6,144.00	488,222.40	8,069.98
WDTN5ZHSM	21	12/3/2022	89	8,470.00	7,481.00	6,100.00	485,241.60	8,112.00
WDTN5ZHSM	22	12/3/2022	90	8,549.00	7,797.00	6,128.00	477,530.50	8,139.00
WDTN5ZHSM	23	12/4/2022	88	8,371.00	7,744.00	6,420.00	485,559.90	8,091.98
WDTN5ZHSM	24	12/4/2022	103	9,134.00	7,978.00	6,125.00	480,622.60	8,145.98
WDTN5ZHSM	25	12/5/2022	103	9,000.00	7,837.00	5,971.00	484,656.90	8,353.98
WDTN5ZHSM	26	12/5/2022	99	9,087.00	7,792.00	5,577.00	490,526.80	8,319.90
WDTN5ZHSM	27	12/5/2022	101	9,015.00	7,093.00	5,680.00	496,386.60	8,149.02
WDTN5ZHSM	28	12/5/2022	101	8,810.00	6,796.00	5,913.00	477,705.00	7,988.02
WDTN5ZHSM	29	12/5/2022	103	9,175.00	5,279.00	6,114.00	457,370.40	7,746.02
WDTN5ZHSM	30	12/5/2022	103	9,166.00	7,169.00	6,196.00	479,745.40	8,689.98
WDTN5ZHSM	31	12/6/2022	101	9,163.00	7,067.00	4,822.00	485,497.80	8,904.00

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47-061-01873

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	7,768	7,971	8,916	GREY SHALE
BURKET	7,768	7,797	8,916	8,962	GREY SHALE
TULLY	7,797	7,834	8,962	9,026	LIMESTONE / GRAY SHALE
HAMILTON	7,834	7,955	9,026	9,297	GREY SHALE
MARCELLUS	7,955	7,989	9,297	9,423	BLACK SHALE
CHERRY VALLEY	7,989	7,993	9,423	9,444	BLACK SHALE
TD (MARCELLUS)				15,609	

03/17/2023

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/22/2022
Job End Date:	12/6/2022
State:	West Virginia
County:	Monongalia
API Number:	47-061-01873-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	WDTN5ZHSM
Latitude:	39.70674300
Longitude:	-80.33713500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,066
Total Base Water Volume (gal):	10,475,388
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	85.34851	None
Sand	US Silica	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	14.42087	None
HCL Acid (28%)	CHEMSTREAM	Acidizing	Hydrochloric Acid	7647-01-0	28.00000	0.03387	None
StimSTREAM 9800	CHEMSTREAM	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01389	None
			Butene, homopolymer	9003-29-6	25.00000	0.01389	None
			Ethoxylated alcohols	68213-23-0	3.00000	0.00167	None
CoilSTREAM 625	CHEMSTREAM	Gelling Agent	Heavy Aliphatic Naphtha	64742-96-7	60.00000	0.00770	None
			Guar Gum	9000-30-0	50.00000	0.00641	None
			Trade Secret	9043-30-5	5.00000	0.00064	None
			Trade Secret	1338-43-8	3.00000	0.00038	None
			Trade Secret	14808-60-7	3.00000	0.00038	None
Clearal 268	CHEMSTREAM	Biocide					

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			Glutaraldehyde	111-30-8	20.00000	0.00219	None
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00033	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00033	None
StimStream SC 398	CHEMSTREAM	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00135	None
Ammonium Persulfate	CHEMSTREAM	Breaker					
			Ammonium Persulfate	7727-54-0	100.00000	0.00115	None
ACI-250	CHEMSTREAM	Acid corrosion inhibitor					
			Methanol	67-56-1	45.00000	0.00024	None
			Ethylene glycol	107-21-1	20.00000	0.00011	None
			Trade Secret	72480-70-7	15.00000	0.00008	None
			N,N-Dimethylformamide	68-12-2	10.00000	0.00005	None
			2-Butoxyethanol	111-76-2	5.00000	0.00003	None
Citric Acid 50%	CHEMSTREAM	Iron Control Agent					
			citric acid	77-92-9	50.50000	0.00036	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	0.01389	
			Guar Gum	9000-30-0	50.00000	0.00641	
			Ethoxylated alcohols	68213-23-0	3.00000	0.00167	
			Trade Secret	9043-30-5	5.00000	0.00064	
			Trade Secret	1338-43-8	3.00000	0.00038	
			Trade Secret	14808-60-7	3.00000	0.00038	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00033	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00033	
			Ethylene glycol	107-21-1	20.00000	0.00011	
			Trade Secret	72480-70-7	15.00000	0.00008	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00005	
			2-Butoxyethanol	111-76-2	5.00000	0.00003	
			CHEMSTREAM-SURFACTANT-10002	Trade Secret	0.90000		
			CHEMSTREAM-OXIDIZER-10001	Trade Secret	3.00000		

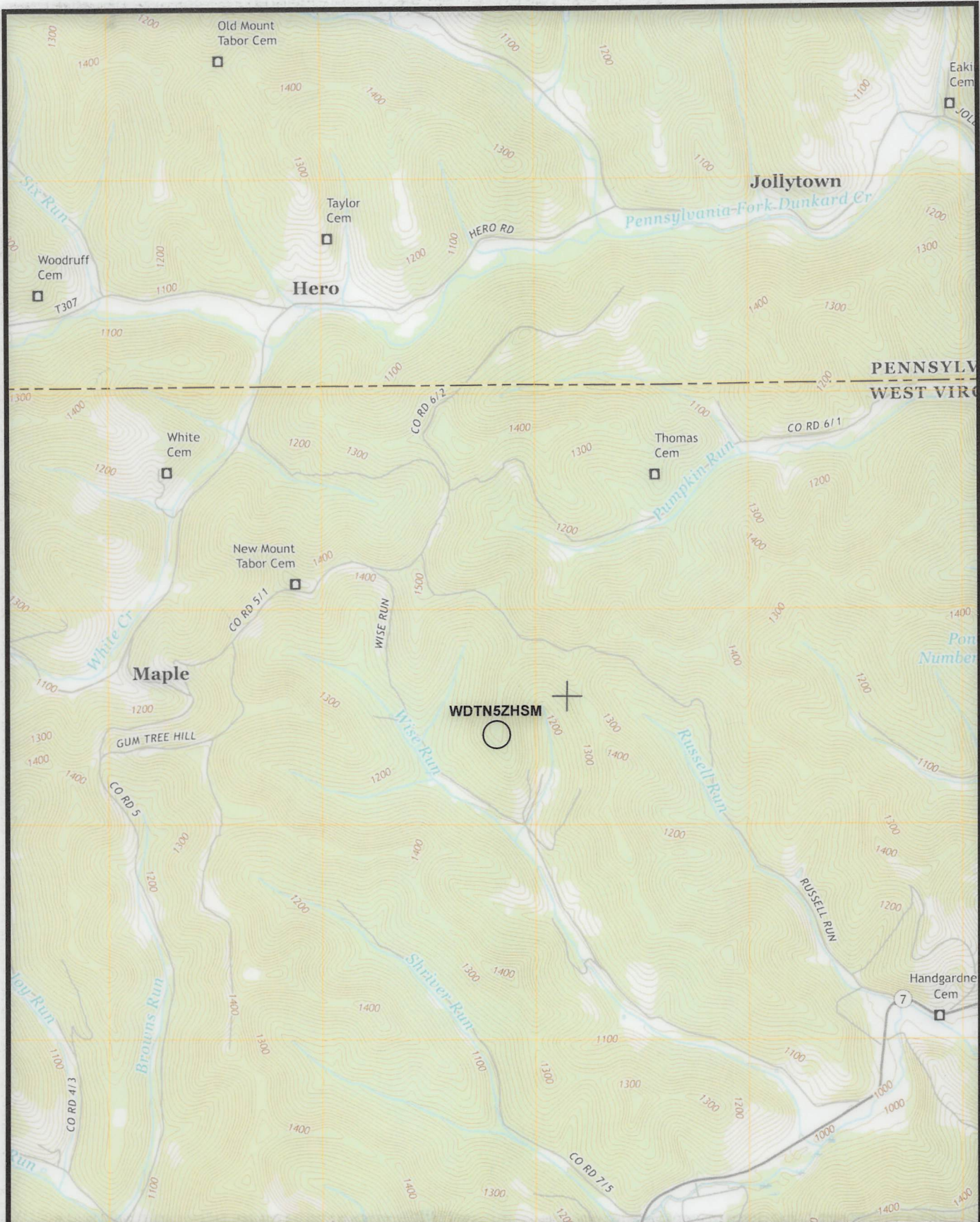
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

RECEIVED
 Office of Oil and Gas
 Environmental Protection
 Department of
 Energy
 02023



(+) 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 #: WDTN5ZHSM

API WELL #	<u>47</u>	<u>061</u>	<u>01873</u>
	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: 15,758'
 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

WELL HEAD DETAIL

SHL is located on topo map 579 feet south of Latitude: 39° 42' 30" SHL
 BHL is located on topo map 10,546 feet south of Latitude: 39° 45' 00" SHL



LINE #	BEARING	DISTANCE
R1	S15°00'57"W	872.32'
R2	N55°31'19"E	290.29'
R3	S73°05'55"E	349.25'
R4	N24°30'25"W	181.11'
R5	N55°31'19"E	290.29'

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83(M)
 N: 4395419.371
 E: 556823.475
 NAD27 WV NORTH
 N: 440591.914
 E: 1764419.253
 LAT/LON - NAD83
 LAT: 39°42'24.274"
 LON: 80°20'13.687"

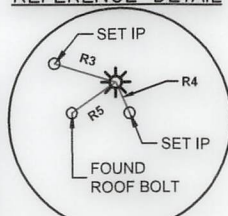
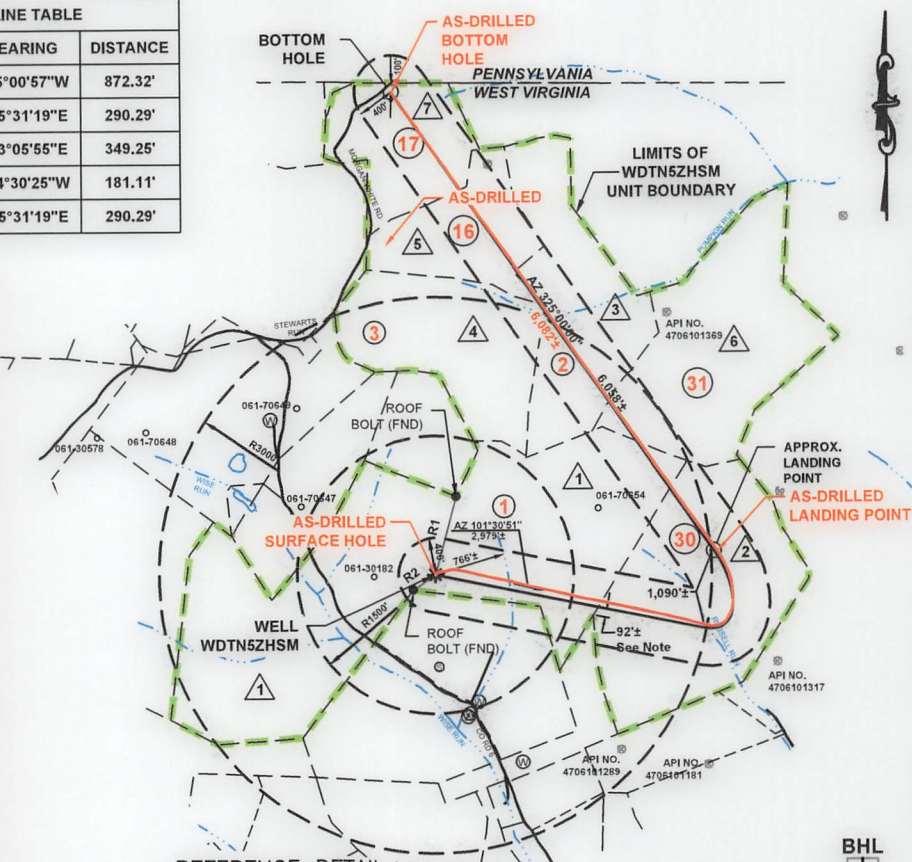
SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83(M)
 N: 4395419.371
 E: 556823.475
 NAD27 WV NORTH
 N: 440591.914
 E: 1764419.253
 LAT/LON - NAD83
 LAT: 39°42'24.274"
 LON: 80°20'13.687"

APPROXIMATE LANDING POINT
 UTM 17 - NAD83(M)
 N: 4395507.997
 E: 557742.421
 NAD27 WV NORTH
 N: 440832.392
 E: 1767439.510
 LAT/LON - NAD83
 LAT: 39°42'26.927"
 LON: 80°19'35.070"

APPROXIMATE LANDING POINT
 UTM 17 - NAD83(M)
 N: 4395506.832
 E: 557753.767
 NAD27 WV NORTH
 N: 440827.949
 E: 1767476.674
 LAT/LON - NAD83
 LAT: 39°42'26.886"
 LON: 80°19'34.594"

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83(M)
 N: 4397002.166
 E: 556658.613
 NAD27 WV NORTH
 N: 445794.675
 E: 1763964.882
 LAT/LON - NAD83
 LAT: 39°43'15.651"
 LON: 80°20'20.120"

BOTTOM HOLE LOCATION (BHL)
 UTM 17 - NAD83(M)
 N: 4397001.821
 E: 556658.650
 NAD27 WV NORTH
 N: 445793.541
 E: 1763964.986
 LAT/LON - NAD83
 LAT: 39°43'15.640"
 LON: 80°20'20.118"



LEGEND

- TOPO MAP POINT
- PROPOSED WELL
- WATER SOURCE
- SPRING
- SURFACE TRACT
- LEASED NUMBER BASED ON ATTACHED WDTN5Z
- 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
 Sewickley, PA 15143
 Phone: 412-219-4509
 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 #: WDTN5ZHSM
 DRAWING #: 3601 - WDTN5Z - AD.DWG
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: USGS MONUMENT 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: [Signature]
 R.P.E.: _____ L.L.S.: P.S. NO. _____



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

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

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 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,035' TMD: 15,758'
 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

03/17/2023

SURFACE TRACT OWNERS & TAX PARCEL

- 1. DINA M WISE ET AL Tm# 1-8-2
- 2. CNX MIDSTREAM DEVCO III LP Tm# 1-8-17
- 3. JAMES EDWARD TAYLOR & EARL LYNN Tm# 1-3-8
- 4. JAMES EDWARD TAYLOR & EARL LYNN Tm# 1-3-4
- 5. THOMAS ROSE Tm# 1-3-5
- 6. JAMES EDWARD TAYLOR & EARL LYNN Tm# 1-3-9
- 7. THOMAS ROSE Tm# 1-3-6

Tract ID	Tax Map & Parcel	Grantor, Lessor, etc	Grantee, Lessee, etc
1	1-8-2	Richard L. McCauley Judy A. Eckman Thomas E. McCauley Regina Wise Myers, aka Violet Regina Myers Evaalee 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	Dina M Wise et al
2	1-3-8	James Edward Taylor & Susan L. Taylor, h/w Earl Lynn Taylor	James Edward Taylor & Earl Lynn
3	1-3-4	James Edward Taylor & Susan L. Taylor, h/w Earl Lynn Taylor Harland Thomas David E. Thomas Marylou Dixon	James Edward Taylor & Earl Lynn
16	1-3-5	Rose Thomas, aka Rose L. Thomas	Thomas Rose
17	1-3-6	Rose Thomas, aka Rose L. Thomas	Thomas Rose
30	1-8-17	Amir H. Mohammadi Aliakbar Afshari	CNX Midstream Devco III LP
31	1-3-9	Frederick Kay Farrell Dane Van Breen Rori Lowe Jeneane Van Breen Maryellen Coens James Gue David Hayes Lori Reeves Bounty Minerals, LLC Elora M. Spino f/k/a Elora M. Socotch Hammett Land & Minerals, LLC Earl Lynn Taylor James Edward Taylor and Susan L. Taylor Pikewood Energy Corporation Stephen Socotch Basil Dawson Barbara Taylor Gary Lee Snider Jason Snider Erik Van Breen Alyssa Van Breen	James Edward Taylor & Earl Lynn

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



Sheffler & Company, Inc.
ENGINEERING • SURVEYING
1712 Mount Nebo Road Sewickley, PA 15143 Phone: 412-219-4509 Email: info@shefflerCo.com

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

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
OPERATOR'S WELL #: **WDTN5ZHSM**
API WELL # 47 061 01873
STATE COUNTY PERMIT

WATERSHED: **DUNKARD CREEK** ELEVATION: **1412'**
COUNTY/DISTRICT: **MONONGALIA / BATTELLE** QUADRANGLE: **WADESTOWN, WV**
SURFACE OWNER: **JOHN M. WISE, ET UX., ET AL.** ACREAGE: **207.36**
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City **CANONSBURG** State **PA** Zip Code **15317** City **CANONSBURG** State **PA** Zip Code **15317**