

# Well Location Plat

CNX Resources  
Applicant / Well Operator Name

DEP ID#

WDTN-5 Pad  
Monongalia County, WV  
GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)

Well #  
**WDTN-5P-HSM**



**As Drilled Well**  
Operator Name: **CNX**

Well/Farm Name: **WDTN-5 Pad**

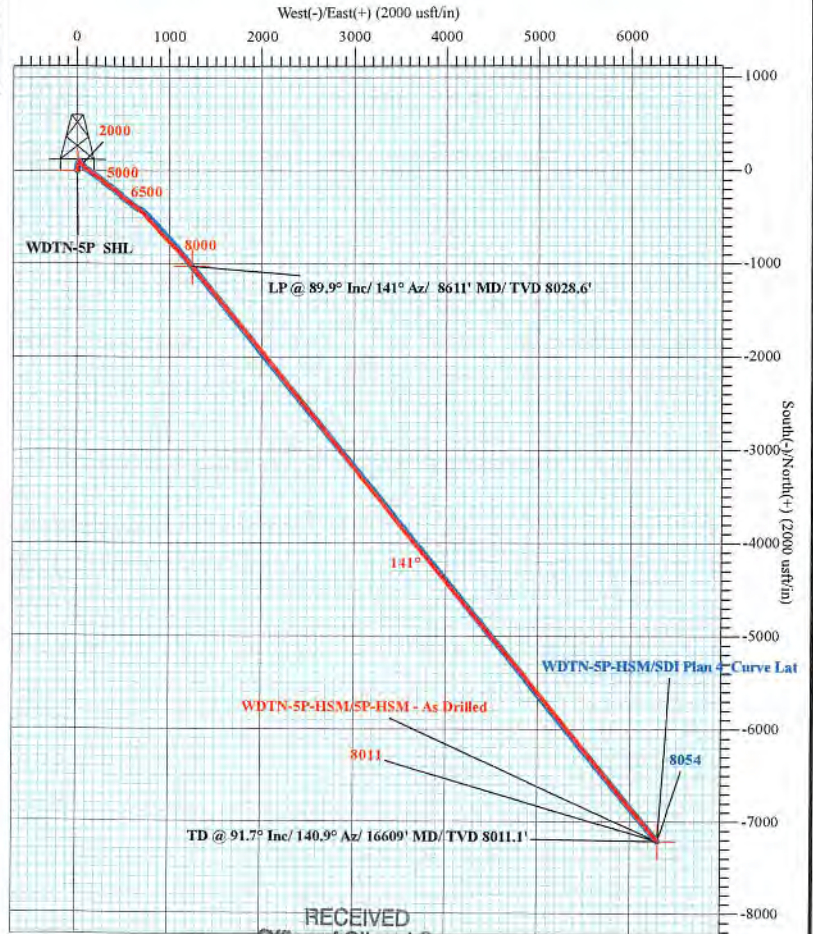
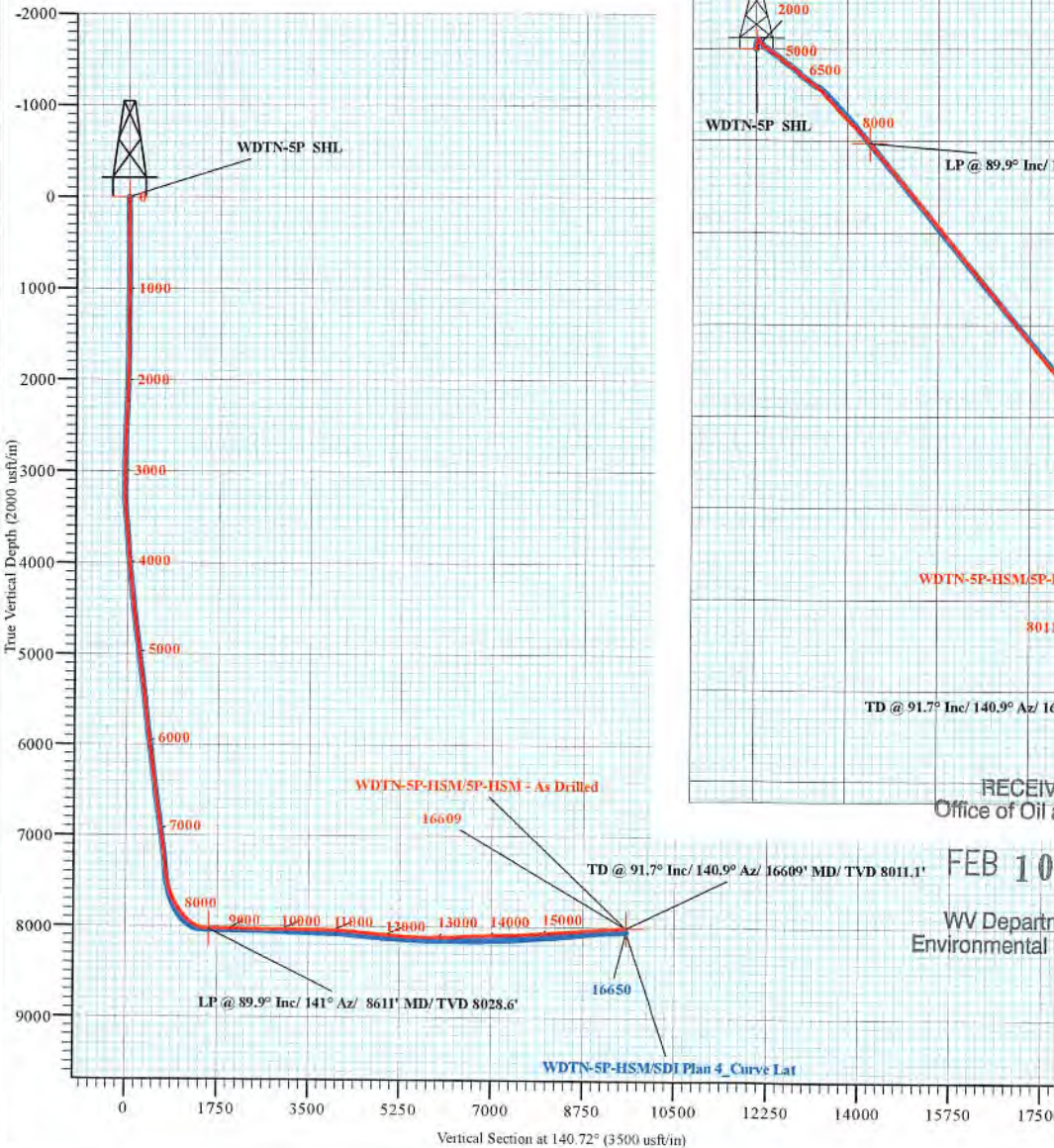


Name	TVD	Latitude	Longitude	TMD
WDTN-5P SHL	0.00	39.7068737	-80.3374430	0
WDTN-5P LP As Drilled	8028.63	39.7040875	-80.3330103	8611
WDTN-5P TD As Drilled	8011.13	39.6872275	-80.3148245	16609

**SURVEY PROGRAM**

Date: 2023-12-05T00:00:00 Validated: Yes Version:

Depth From	Depth To	Survey/Plan	Tool
100.00	1355.00	Survey #1 Surface Gyro (Orig)	NS-GYRO-MS
1465.00	2950.00	Survey #2 SDI MWD (Orig)	SDI MWD
3021.00	7285.00	Survey #3 SDI MWD (Orig)	SDI MWD
7346.99	16608.97	Survey #4 SDI MWD (Orig)	SDI MWD



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Azimuths to Grid North  
True North: 0.53°  
Magnetic North: -8.38°

Magnetic Field  
Strength: 51635.3nT  
Dip Angle: 66.27°  
Date: 1/25/2024  
Model: HDGM2024

05/23/2025





**CNX**

**Monongalia County, WV**

**WDTN-5 Pad**

**WDTN-5P-HSM**

**AFE:125756**

**Orig**

**Design: 5P-HSM - As Drilled**

## **Survey Report - Geographic**

**12 February, 2024**



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05/23/2025



<b>Company:</b>	CNX	<b>Local Co-ordinate Reference:</b>	Well WDTN-5P-HSM
<b>Project:</b>	Monongalia County, WV	<b>TVD Reference:</b>	GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)
<b>Site:</b>	WDTN-5 Pad	<b>MD Reference:</b>	GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)
<b>Well:</b>	WDTN-5P-HSM	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Orig	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	5P-HSM - As Drilled	<b>Database:</b>	Northeast

<b>Project</b>	Monongalia County, WV		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	West Virginia North 4701		

<b>Site</b>	WDTN-5 Pad				
<b>Site Position:</b>		<b>Northing:</b>	440,530.86 usft	<b>Latitude:</b>	39.7064951
<b>From:</b>	Map	<b>Easting:</b>	1,764,427.60 usft	<b>Longitude:</b>	-80.3373058
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.53 °

<b>Well</b>	WDTN-5P-HSM					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	440,669.13 usft	<b>Latitude:</b>	39.7068738
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	1,764,390.31 usft	<b>Longitude:</b>	-80.3374429
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	1,388.80 usft

<b>Wellbore</b>	Orig					
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>	
	HDGM2023	12/4/2023	-8.92	66.27	51,677.70000000	
	HDGM2024	1/25/2024	-8.92	66.27	51,635.30000000	

<b>Design</b>	5P-HSM - As Drilled				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	140.72	

<b>Survey Program</b>	Date 2/12/2024			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
100.00	1,355.00	Survey #1 Surface Gyro (Orig)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,465.00	2,950.00	Survey #2 SDI MWD (Orig)	SDI MWD	SDI MWD - Standard ver 1.0.1
3,021.00	7,285.00	Survey #3 SDI MWD (Orig)	SDI MWD	SDI MWD - Standard ver 1.0.1
7,346.99	16,609.00	Survey #4 SDI MWD (Orig)	SDI MWD	SDI MWD - Standard ver 1.0.1

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<b>Survey</b>	<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Map Northing (usft)</b>	<b>Map Easting (usft)</b>	<b>Latitude</b>	<b>Longitude</b>
	0.00	0.00	0.00	0.00	0.00	0.00	440,669.13	1,764,390.31	39.7068738	-80.3374429
	100.00	0.30	134.16	100.00	-0.18	0.19	440,668.94	1,764,390.50	39.7068733	-80.3374423
	200.00	0.25	156.26	200.00	-0.56	0.46	440,668.56	1,764,390.78	39.7068722	-80.3374413
	300.00	0.08	222.19	300.00	-0.82	0.50	440,668.31	1,764,390.82	39.7068715	-80.3374411
	400.00	0.11	12.95	400.00	-0.77	0.48	440,668.35	1,764,390.79	39.7068716	-80.3374412
	500.00	0.29	123.78	500.00	-0.82	0.71	440,668.31	1,764,391.02	39.7068715	-80.3374404





<b>Company:</b>	CNX	<b>Local Co-ordinate Reference:</b>	Well WDTN-5P-HSM
<b>Project:</b>	Monongalia County, WV	<b>TVD Reference:</b>	GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)
<b>Site:</b>	WDTN-5 Pad	<b>MD Reference:</b>	GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)
<b>Well:</b>	WDTN-5P-HSM	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Orig	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	5P-HSM - As Drilled	<b>Database:</b>	Northeast

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
600.00	0.06	203.25	600.00	-1.01	0.90	440,668.12	1,764,391.21	39.7068710	-80.3374397
700.00	0.07	77.95	700.00	-1.05	0.94	440,668.08	1,764,391.25	39.7068709	-80.3374396
800.00	0.33	132.48	800.00	-1.23	1.21	440,667.90	1,764,391.52	39.7068704	-80.3374386
900.00	0.49	123.93	899.99	-1.66	1.78	440,667.47	1,764,392.09	39.7068692	-80.3374366
1,000.00	0.12	79.59	999.99	-1.88	2.24	440,667.25	1,764,392.55	39.7068687	-80.3374349
1,100.00	0.23	103.05	1,099.99	-1.91	2.54	440,667.22	1,764,392.85	39.7068686	-80.3374339
1,200.00	0.34	59.39	1,199.99	-1.80	2.99	440,667.33	1,764,393.30	39.7068689	-80.3374323
1,300.00	0.30	82.13	1,299.99	-1.61	3.50	440,667.51	1,764,393.81	39.7068694	-80.3374304
1,355.00	0.27	103.47	1,354.99	-1.62	3.77	440,667.50	1,764,394.08	39.7068694	-80.3374295
1,465.00	0.59	36.66	1,464.99	-1.23	4.36	440,667.90	1,764,394.67	39.7068705	-80.3374274
1,560.00	0.86	21.01	1,559.98	-0.17	4.91	440,668.95	1,764,395.22	39.7068734	-80.3374255
1,655.00	1.29	15.70	1,654.96	1.52	5.45	440,670.65	1,764,395.76	39.7068781	-80.3374236
1,750.00	1.42	340.87	1,749.94	3.66	5.36	440,672.79	1,764,395.67	39.7068840	-80.3374240
1,845.00	1.86	309.52	1,844.90	5.76	3.78	440,674.88	1,764,394.09	39.7068897	-80.3374297
1,940.00	2.55	305.44	1,939.83	7.96	0.87	440,677.09	1,764,391.18	39.7068956	-80.3374401
2,034.00	2.26	318.94	2,033.75	10.57	-2.05	440,679.70	1,764,388.26	39.7069027	-80.3374506
2,129.00	2.88	347.78	2,128.65	14.32	-3.79	440,683.45	1,764,386.53	39.7069130	-80.3374569
2,224.00	4.89	4.73	2,223.43	20.69	-3.96	440,689.81	1,764,386.35	39.7069305	-80.3374577
2,319.00	6.32	13.13	2,317.98	29.82	-2.44	440,698.94	1,764,387.88	39.7069556	-80.3374526
2,414.00	7.58	10.09	2,412.28	41.08	-0.15	440,710.20	1,764,390.16	39.7069865	-80.3374448
2,509.00	7.39	14.19	2,506.47	53.17	2.44	440,722.30	1,764,392.76	39.7070198	-80.3374360
2,604.00	5.33	19.73	2,600.88	63.25	5.43	440,732.37	1,764,395.74	39.7070475	-80.3374257
2,698.00	4.54	28.24	2,694.53	70.63	8.67	440,739.76	1,764,398.98	39.7070679	-80.3374145
2,793.00	5.23	22.05	2,789.19	77.96	12.07	440,747.09	1,764,402.38	39.7070881	-80.3374026
2,888.00	5.13	21.82	2,883.80	85.92	15.28	440,755.04	1,764,405.59	39.7071100	-80.3373915
2,950.00	4.47	21.10	2,945.58	90.74	17.18	440,759.87	1,764,407.49	39.7071233	-80.3373849
3,021.00	4.59	21.08	3,016.36	95.98	19.19	440,765.10	1,764,409.51	39.7071377	-80.3373779
3,115.00	2.18	19.21	3,110.19	101.17	21.13	440,770.30	1,764,411.45	39.7071521	-80.3373712
3,210.00	0.89	148.04	3,205.17	102.25	22.12	440,771.38	1,764,412.43	39.7071550	-80.3373677
3,307.00	5.90	158.35	3,301.97	96.98	24.36	440,766.11	1,764,414.67	39.7071406	-80.3373596
3,402.00	7.67	160.51	3,396.30	86.46	28.28	440,755.59	1,764,418.59	39.7071119	-80.3373453
3,497.00	9.92	149.40	3,490.18	73.44	34.56	440,742.57	1,764,424.87	39.7070763	-80.3373225
3,591.00	9.63	130.75	3,582.84	61.34	44.64	440,730.46	1,764,434.95	39.7070433	-80.3372863
3,686.00	8.02	127.05	3,676.71	52.16	55.95	440,721.28	1,764,446.26	39.7070184	-80.3372458
3,781.00	6.44	128.35	3,770.96	44.86	65.42	440,713.98	1,764,455.73	39.7069986	-80.3372119
3,876.00	6.41	136.51	3,865.36	37.70	73.24	440,706.83	1,764,463.56	39.7069791	-80.3371839
3,970.00	8.39	141.08	3,958.58	28.56	81.16	440,697.69	1,764,471.48	39.7069542	-80.3371554
4,065.00	9.65	132.38	4,052.40	17.80	91.40	440,686.93	1,764,481.71	39.7069250	-80.3371187
4,160.00	11.05	124.75	4,145.86	7.24	104.76	440,676.37	1,764,495.08	39.7068963	-80.3370708
4,255.00	11.18	118.43	4,239.08	-2.33	120.34	440,666.79	1,764,510.66	39.7068704	-80.3370151
4,350.00	9.92	121.75	4,332.47	-11.02	135.40	440,658.10	1,764,525.72	39.7068470	-80.3369613
4,444.00	10.68	127.11	4,424.96	-20.54	149.24	440,648.59	1,764,539.55	39.7068212	-80.3369119
4,539.00	12.80	128.48	4,517.97	-32.40	164.50	440,636.73	1,764,554.81	39.7067890	-80.3368572
4,634.00	13.20	126.19	4,610.53	-45.35	181.49	440,623.77	1,764,571.80	39.7067439	-80.3367964
4,729.00	12.02	126.11	4,703.24	-57.59	198.23	440,611.54	1,764,588.55	39.7066927	-80.3367365
4,824.00	13.93	127.09	4,795.81	-70.32	215.35	440,598.81	1,764,605.66	39.7066862	-80.3366752
4,919.00	13.04	123.69	4,888.19	-83.16	233.39	440,585.97	1,764,623.70	39.7066519	-80.3366107
5,013.00	11.90	124.20	4,979.97	-94.49	250.23	440,574.64	1,764,640.54	39.7066208	-80.3365505
5,108.00	12.00	131.41	5,072.92	-106.53	265.74	440,562.60	1,764,656.05	39.7065881	-80.3364949
5,203.00	13.49	131.88	5,165.58	-120.46	281.39	440,548.67	1,764,671.71	39.7065503	-80.3364388
5,298.00	13.21	129.46	5,258.01	-134.75	298.02	440,534.38	1,764,688.34	39.7065114	-80.3363793
5,392.00	12.00	122.58	5,349.75	-146.84	314.55	440,522.29	1,764,704.87	39.7064787	-80.3363201
5,487.00	12.49	124.43	5,442.59	-157.97	331.35	440,511.16	1,764,721.66	39.7064486	-80.3362600

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Wellbore:	Orig	Survey Calculation Method:	Minimum Curvature
Design:	5P-HSM - As Drilled	Database:	Northeast

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,582.00	11.03	120.99	5,535.59	-168.45	347.61	440,500.67	1,764,737.93	39.7064202	-80.3362019
5,677.00	11.28	123.78	5,628.80	-178.30	363.13	440,490.83	1,764,753.44	39.7063936	-80.3361464
5,771.00	11.22	124.15	5,720.99	-188.55	378.34	440,480.58	1,764,768.65	39.7063658	-80.3360920
5,866.00	12.60	125.80	5,813.94	-199.80	394.39	440,469.33	1,764,784.70	39.7063353	-80.3360346
5,961.00	13.05	128.11	5,906.57	-212.48	411.23	440,456.65	1,764,801.55	39.7063010	-80.3359743
6,056.00	12.94	132.49	5,999.14	-226.28	427.52	440,442.85	1,764,817.83	39.7062635	-80.3359160
6,151.00	12.16	131.15	6,091.87	-240.05	442.89	440,429.08	1,764,833.21	39.7062261	-80.3358609
6,246.00	12.72	129.93	6,184.64	-253.35	458.45	440,415.78	1,764,848.76	39.7061900	-80.3358052
6,341.00	13.61	131.65	6,277.15	-267.49	474.82	440,401.64	1,764,865.13	39.7061516	-80.3357465
6,435.00	12.16	130.72	6,368.78	-281.30	490.59	440,387.83	1,764,880.90	39.7061141	-80.3356900
6,530.00	11.68	129.81	6,461.73	-293.98	505.56	440,375.15	1,764,895.87	39.7060796	-80.3356364
6,625.00	13.18	129.30	6,554.50	-307.00	521.33	440,362.13	1,764,911.64	39.7060443	-80.3355799
6,720.00	14.73	126.85	6,646.69	-321.10	539.37	440,348.02	1,764,929.69	39.7060060	-80.3355153
6,814.00	14.19	124.67	6,737.71	-334.82	558.41	440,334.30	1,764,948.73	39.7059688	-80.3354472
6,909.00	13.47	127.66	6,829.96	-348.21	576.75	440,320.92	1,764,967.06	39.7059326	-80.3353816
7,004.00	13.31	129.36	6,922.38	-361.90	593.96	440,307.22	1,764,984.28	39.7058954	-80.3353199
7,099.00	13.16	126.40	7,014.86	-375.26	611.12	440,293.87	1,765,001.44	39.7058592	-80.3352585
7,194.00	13.69	126.32	7,107.26	-388.33	628.89	440,280.79	1,765,019.20	39.7058237	-80.3351949
7,285.00	12.99	125.70	7,195.80	-400.68	645.87	440,268.45	1,765,036.18	39.7057903	-80.3351342
7,347.00	10.88	126.84	7,256.46	-408.25	656.21	440,260.87	1,765,046.52	39.7057697	-80.3350972
7,378.00	10.73	126.70	7,286.91	-411.73	660.87	440,257.39	1,765,051.18	39.7057603	-80.3350805
7,473.00	12.69	127.58	7,379.92	-423.38	676.23	440,245.74	1,765,066.54	39.7057287	-80.3350255
7,568.01	15.60	128.28	7,472.04	-437.66	694.53	440,231.46	1,765,084.84	39.7056900	-80.3349600
7,663.00	23.01	137.89	7,561.66	-459.39	717.04	440,209.74	1,765,107.36	39.7056309	-80.3348793
7,758.00	33.44	139.67	7,645.25	-493.21	746.52	440,175.92	1,765,136.83	39.7055388	-80.3347734
7,853.00	41.28	137.47	7,720.71	-536.33	784.70	440,132.80	1,765,175.01	39.7054214	-80.3346363
7,947.00	49.64	137.69	7,786.58	-585.75	829.85	440,083.38	1,765,220.16	39.7052869	-80.3344742
8,042.00	51.35	138.33	7,847.01	-640.23	878.88	440,028.90	1,765,269.19	39.7051386	-80.3342981
8,137.00	56.78	136.87	7,902.74	-696.99	930.75	439,972.14	1,765,321.06	39.7049841	-80.3341119
8,232.00	64.95	136.66	7,948.96	-757.39	987.55	439,911.74	1,765,377.86	39.7048197	-80.3339080
8,327.00	72.17	135.76	7,983.66	-821.16	1,048.71	439,847.96	1,765,439.02	39.7046462	-80.3336886
8,422.00	76.87	135.59	8,009.01	-886.64	1,112.67	439,782.49	1,765,502.98	39.7044681	-80.3334591
8,517.00	84.68	138.05	8,024.23	-954.98	1,176.76	439,714.15	1,765,567.07	39.7042821	-80.3332291
8,611.00	89.93	141.03	8,028.65	-1,026.39	1,237.66	439,642.74	1,765,627.97	39.7040876	-80.3330103
<b>LP @ 89.9° Inc/ 141° Az/ 8611' MD/ TVD 8028.6'</b>									
8,706.00	89.93	140.69	8,028.76	-1,100.07	1,297.63	439,569.06	1,765,687.94	39.7038868	-80.3327947
8,801.00	89.77	140.36	8,029.01	-1,173.40	1,358.02	439,495.73	1,765,748.33	39.7036870	-80.3325777
8,896.00	89.90	140.21	8,029.29	-1,246.48	1,418.72	439,422.65	1,765,809.04	39.7034880	-80.3323595
8,991.00	89.73	139.86	8,029.59	-1,319.29	1,479.74	439,349.84	1,765,870.05	39.7032896	-80.3321403
9,086.00	89.90	140.15	8,029.90	-1,392.07	1,540.80	439,277.06	1,765,931.11	39.7030914	-80.3319209
9,180.00	89.13	140.61	8,030.70	-1,464.47	1,600.74	439,204.66	1,765,991.05	39.7028941	-80.3317055
9,275.00	88.96	140.36	8,032.28	-1,537.75	1,661.18	439,131.38	1,766,051.49	39.7026945	-80.3314883
9,370.00	89.40	139.95	8,033.64	-1,610.68	1,722.04	439,058.45	1,766,112.35	39.7024958	-80.3312696
9,465.00	89.73	140.43	8,034.36	-1,683.65	1,782.86	438,985.47	1,766,173.17	39.7022970	-80.3310510
9,560.00	89.87	140.41	8,034.69	-1,756.87	1,843.39	438,912.25	1,766,233.70	39.7020976	-80.3308335
9,654.00	90.00	139.92	8,034.80	-1,829.05	1,903.60	438,840.07	1,766,293.92	39.7019009	-80.3306171
9,749.00	89.87	139.89	8,034.91	-1,901.73	1,964.79	438,767.40	1,766,355.10	39.7017030	-80.3303973
9,844.00	89.66	140.47	8,035.30	-1,974.69	2,025.62	438,694.44	1,766,415.94	39.7015042	-80.3301787
9,939.00	89.83	141.30	8,035.72	-2,048.40	2,085.56	438,620.73	1,766,475.87	39.7013034	-80.3299633
10,034.00	89.73	141.45	8,036.08	-2,122.62	2,144.86	438,546.51	1,766,535.17	39.7011011	-80.3297501
10,129.00	89.50	141.53	8,036.72	-2,196.95	2,204.01	438,472.17	1,766,594.32	39.7008985	-80.3295374
10,224.00	90.03	141.44	8,037.11	-2,271.28	2,263.16	438,397.84	1,766,653.48	39.7006960	-80.3293248
10,318.00	89.60	141.57	8,037.42	-2,344.85	2,321.67	438,324.27	1,766,711.99	39.7004955	-80.3291144

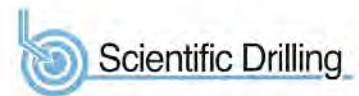




Company:	CNX	Local Co-ordinate Reference:	Well WDTN-5P-HSM
Project:	Monongalia County, WV	TVD Reference:	GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)
Site:	WDTN-5 Pad	MD Reference:	GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)
Well:	WDTN-5P-HSM	North Reference:	Grid
Wellbore:	Orig	Survey Calculation Method:	Minimum Curvature
Design:	5P-HSM - As Drilled	Database:	Northeast

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,413.00	90.00	141.24	8,037.75	-2,419.10	2,380.94	438,250.03	1,766,771.25	39.7002932	-80.3289014
10,508.00	89.80	139.41	8,037.91	-2,492.22	2,441.58	438,176.91	1,766,831.90	39.7000940	-80.3286834
10,603.00	89.80	141.94	8,038.24	-2,565.70	2,501.78	438,103.43	1,766,892.09	39.6998938	-80.3284671
10,697.00	89.36	141.32	8,038.93	-2,639.39	2,560.13	438,029.73	1,766,950.44	39.6996929	-80.3282573
10,792.00	89.30	140.89	8,040.04	-2,713.33	2,619.77	437,955.80	1,767,010.09	39.6994915	-80.3280429
10,886.00	89.20	141.40	8,041.27	-2,786.52	2,678.74	437,882.60	1,767,069.05	39.6992920	-80.3278310
10,981.00	88.59	141.30	8,043.11	-2,860.70	2,738.06	437,808.43	1,767,128.37	39.6990899	-80.3276178
11,075.00	87.85	142.41	8,046.03	-2,934.59	2,796.09	437,734.54	1,767,186.40	39.6988885	-80.3274091
11,170.00	87.42	143.36	8,049.95	-3,010.28	2,853.37	437,658.85	1,767,243.68	39.6986821	-80.3272031
11,264.00	88.02	141.09	8,053.69	-3,084.51	2,910.90	437,584.61	1,767,301.21	39.6984798	-80.3269962
11,359.00	88.02	141.67	8,056.97	-3,158.69	2,970.16	437,510.43	1,767,360.47	39.6982776	-80.3267832
11,453.00	86.11	141.53	8,061.78	-3,232.26	3,028.47	437,436.87	1,767,418.78	39.6980771	-80.3265736
11,548.00	86.11	141.59	8,068.23	-3,306.50	3,087.39	437,362.63	1,767,477.70	39.6978748	-80.3263617
11,642.00	87.05	141.64	8,073.83	-3,380.05	3,145.65	437,289.08	1,767,535.97	39.6976744	-80.3261523
11,737.00	87.11	140.14	8,078.67	-3,453.66	3,205.50	437,215.46	1,767,595.81	39.6974738	-80.3259372
11,831.00	87.48	140.55	8,083.11	-3,525.95	3,265.42	437,143.17	1,767,655.73	39.6972768	-80.3257219
11,926.00	87.15	141.00	8,087.56	-3,599.47	3,325.43	437,069.66	1,767,715.74	39.6970765	-80.3255063
12,020.00	87.01	140.47	8,092.35	-3,672.15	3,384.85	436,996.98	1,767,775.16	39.6968765	-80.3252927
12,114.00	87.18	140.52	8,097.11	-3,744.58	3,444.57	436,924.54	1,767,834.88	39.6966812	-80.3250781
12,209.00	87.11	141.08	8,101.84	-3,818.11	3,504.53	436,851.02	1,767,894.85	39.6964808	-80.3248626
12,303.00	87.25	140.03	8,106.47	-3,890.61	3,564.18	436,776.51	1,767,954.50	39.6962833	-80.3246483
12,398.00	87.31	139.65	8,110.98	-3,963.13	3,623.38	436,705.99	1,768,015.69	39.6960857	-80.3244285
12,492.00	89.06	140.32	8,113.96	-4,035.09	3,685.79	436,634.04	1,768,076.10	39.6958897	-80.3242115
12,587.01	89.16	140.31	8,115.43	-4,108.19	3,746.45	436,560.93	1,768,136.76	39.6956905	-80.3239935
12,681.00	89.87	140.57	8,116.23	-4,180.66	3,806.32	436,488.47	1,768,196.63	39.6954931	-80.3237784
12,776.00	89.93	141.60	8,116.39	-4,254.58	3,865.99	436,414.55	1,768,256.30	39.6952917	-80.3235639
12,871.00	89.83	140.70	8,116.59	-4,328.56	3,925.58	436,340.57	1,768,315.90	39.6950901	-80.3233498
12,966.00	90.13	140.70	8,116.62	-4,402.08	3,985.75	436,267.05	1,768,376.07	39.6948897	-80.3231336
13,060.00	90.10	140.20	8,116.44	-4,474.56	4,045.61	436,194.57	1,768,435.92	39.6946923	-80.3229185
13,155.00	90.17	140.45	8,116.21	-4,547.67	4,106.26	436,121.45	1,768,496.57	39.6944931	-80.3227006
13,250.00	91.28	140.26	8,115.01	-4,620.82	4,166.87	436,048.31	1,768,557.18	39.6942938	-80.3224828
13,345.00	92.08	139.94	8,112.22	-4,693.67	4,227.78	435,975.46	1,768,618.09	39.6940953	-80.3222640
13,439.00	91.84	139.49	8,109.01	-4,765.33	4,288.52	435,903.80	1,768,678.83	39.6939001	-80.3220458
13,534.00	92.18	140.00	8,105.68	-4,837.79	4,349.87	435,831.34	1,768,740.18	39.6937027	-80.3218255
13,629.00	90.81	139.73	8,103.20	-4,910.39	4,411.08	435,758.74	1,768,801.40	39.6935049	-80.3216056
13,723.00	91.17	139.81	8,101.58	-4,982.15	4,471.78	435,686.98	1,768,862.10	39.6933095	-80.3213876
13,818.00	91.07	140.29	8,099.72	-5,054.96	4,532.77	435,614.17	1,768,923.09	39.6931111	-80.3211685
13,913.00	91.11	139.82	8,097.91	-5,127.78	4,593.76	435,541.35	1,768,984.07	39.6929127	-80.3209494
14,008.00	91.38	139.93	8,095.85	-5,200.40	4,654.97	435,468.73	1,769,045.28	39.6927149	-80.3207296
14,103.00	90.37	140.08	8,094.40	-5,273.17	4,716.02	435,395.96	1,769,106.33	39.6925166	-80.3205103
14,197.00	90.07	139.80	8,094.04	-5,345.12	4,776.51	435,324.01	1,769,166.83	39.6923206	-80.3202929
14,292.00	89.97	139.59	8,094.00	-5,417.56	4,837.96	435,251.56	1,769,228.28	39.6921233	-80.3200722
14,387.00	91.07	140.62	8,093.14	-5,490.44	4,898.89	435,178.68	1,769,289.20	39.6919247	-80.3198534
14,482.00	91.95	139.65	8,090.64	-5,563.34	4,959.76	435,105.79	1,769,350.07	39.6917261	-80.3196347
14,577.00	91.91	139.72	8,087.44	-5,635.73	5,021.19	435,033.40	1,769,411.50	39.6915289	-80.3194141
14,671.00	92.32	140.40	8,083.97	-5,707.75	5,081.50	434,961.37	1,769,471.81	39.6913327	-80.3191975
14,766.00	91.68	141.07	8,080.65	-5,781.26	5,141.59	434,887.87	1,769,531.90	39.6911324	-80.3189816
14,860.00	91.88	141.08	8,077.73	-5,854.35	5,200.62	434,814.77	1,769,590.93	39.6909332	-80.3187694
14,955.00	92.01	141.36	8,074.51	-5,928.37	5,260.08	434,740.76	1,769,650.40	39.6907315	-80.3185557
15,050.00	92.18	141.50	8,071.04	-6,002.59	5,319.27	434,666.53	1,769,709.59	39.6905292	-80.3183430
15,145.00	92.32	140.76	8,067.31	-6,076.50	5,378.85	434,592.63	1,769,769.16	39.6903278	-80.3181289
15,239.00	92.35	140.96	8,063.48	-6,149.35	5,438.13	434,519.78	1,769,828.44	39.6901293	-80.3179159
15,334.00	92.28	141.37	8,059.64	-6,223.29	5,497.65	434,445.84	1,769,887.97	39.6899278	-80.3177020





<b>Company:</b>	CNX	<b>Local Co-ordinate Reference:</b>	Well WDTN-5P-HSM
<b>Project:</b>	Monongalia County, WV	<b>TVD Reference:</b>	GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)
<b>Site:</b>	WDTN-5 Pad	<b>MD Reference:</b>	GL 1388.8' & 30' KB @ 1418.80usft (Original Well Elev)
<b>Well:</b>	WDTN-5P-HSM	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Orig	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	5P-HSM - As Drilled	<b>Database:</b>	Northeast

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,429.00	91.95	141.15	8,056.13	-6,297.33	5,557.06	434,371.79	1,769,947.38	39.6897260	-80.3174885
15,524.00	92.35	141.21	8,052.57	-6,371.30	5,616.57	434,297.83	1,770,006.89	39.6895244	-80.3172747
15,619.00	92.68	141.51	8,048.40	-6,445.43	5,675.84	434,223.70	1,770,066.15	39.6893224	-80.3170617
15,714.00	92.52	141.23	8,044.09	-6,519.57	5,735.08	434,149.56	1,770,125.40	39.6891204	-80.3168488
15,808.00	92.55	141.27	8,039.93	-6,592.80	5,793.86	434,076.32	1,770,184.17	39.6889208	-80.3166376
15,903.00	92.39	140.88	8,035.84	-6,666.64	5,853.50	434,002.49	1,770,243.81	39.6887195	-80.3164233
15,998.00	92.38	140.85	8,031.89	-6,740.27	5,913.40	433,928.86	1,770,303.71	39.6885189	-80.3162081
16,093.00	92.52	141.14	8,027.82	-6,814.02	5,973.14	433,855.11	1,770,363.45	39.6883179	-80.3159934
16,188.00	92.72	140.70	8,023.48	-6,887.69	6,032.96	433,781.44	1,770,423.28	39.6881172	-80.3157785
16,282.00	91.14	140.62	8,020.32	-6,960.35	6,092.52	433,708.78	1,770,482.83	39.6879192	-80.3155645
16,377.00	91.71	140.86	8,017.95	-7,033.88	6,152.62	433,635.25	1,770,542.93	39.6877188	-80.3153486
16,472.00	91.64	141.26	8,015.18	-7,107.74	6,212.30	433,561.39	1,770,602.61	39.6875175	-80.3151342
16,567.00	91.71	140.85	8,012.40	-7,181.59	6,271.99	433,487.53	1,770,662.30	39.6873163	-80.3149197
16,609.00	91.71	140.85	8,011.15	-7,214.15	6,298.50	433,454.98	1,770,688.81	39.6872275	-80.3148245

TD @ 91.7° Inc/ 140.9° Az/ 16609' MD/ TVD 8011.1'

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WDTN-5P SHL - hit/miss target - Shape	0.00	360.00	0.00	0.00	0.00	440,669.13	1,764,390.31	39.7068738	-80.3374429
- actual wellpath hits target center - Point									
WDTN-5P TD As Drilled - actual wellpath misses target center by 0.03usft at 16609.00usft MD (8011.15 TVD, -7214.15 N, 6298.50 E) - Point	0.00	0.00	8,011.13	-7,214.16	6,298.51	433,454.96	1,770,688.82	39.6872275	-80.3148244
WDTN-5P LP As Drilled - actual wellpath misses target center by 0.02usft at 8611.02usft MD (8028.65 TVD, -1026.40 N, 1237.67 E) - Point	0.00	360.00	8,028.63	-1,026.40	1,237.67	439,642.73	1,765,627.98	39.7040876	-80.3330102

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,611.00	8,028.65	-1,026.39	1,237.66	LP @ 89.9° Inc/ 141° Az/ 8611' MD/ TVD 8028.6'
16,609.00	8,011.15	-7,214.15	6,298.50	TD @ 91.7° Inc/ 140.9° Az/ 16609' MD/ TVD 8011.1'

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

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