



CNX GAS COMPANY, LLC

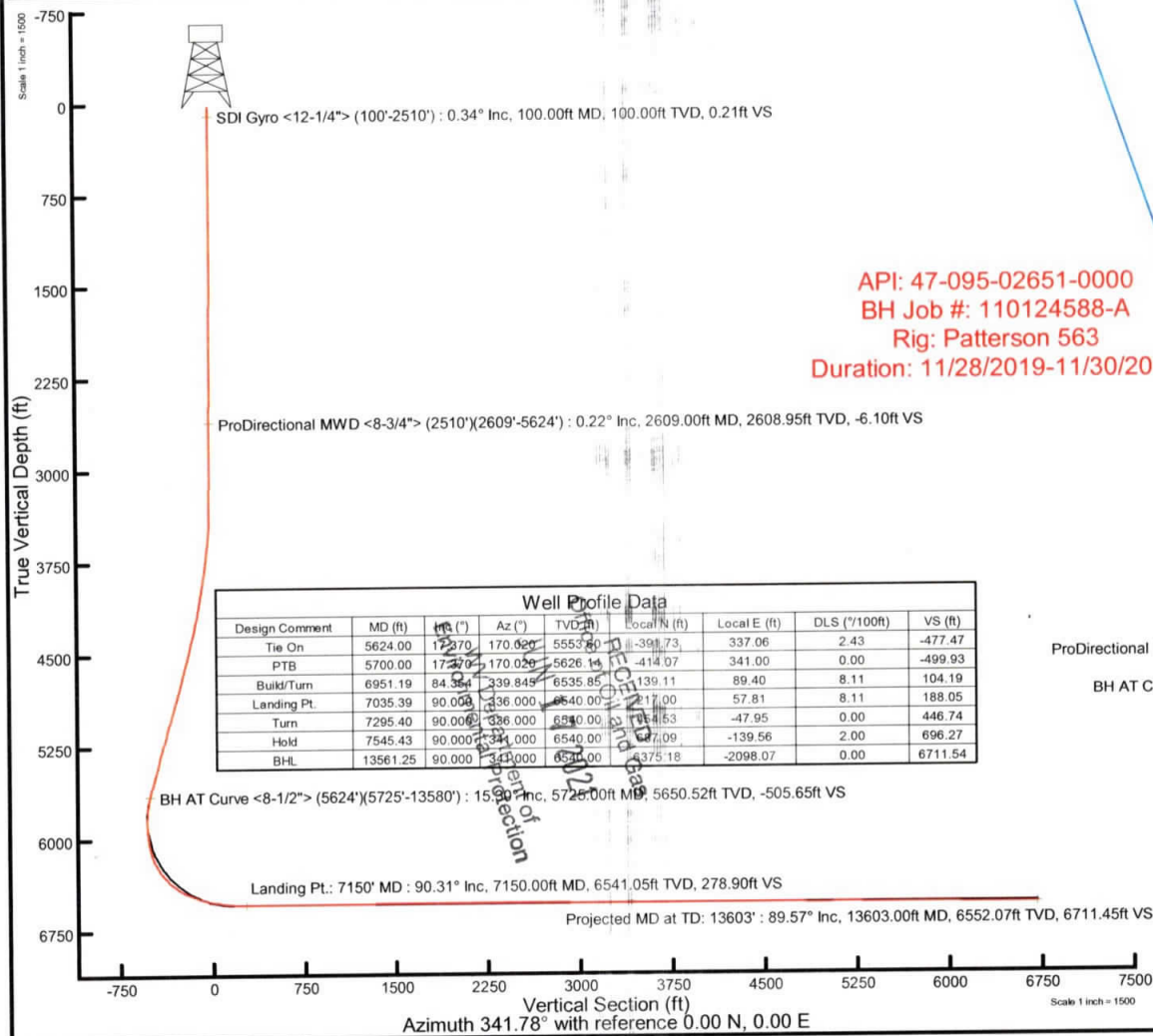


Location: Tyler County, WV
 Field: Tyler
 Facility: SHR-38 Pad

Slot: Slot P
 Well: SHR-38P-HSM
 Wellbore: SHR-38P-HSM PWB

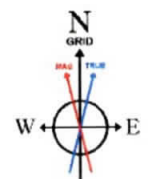
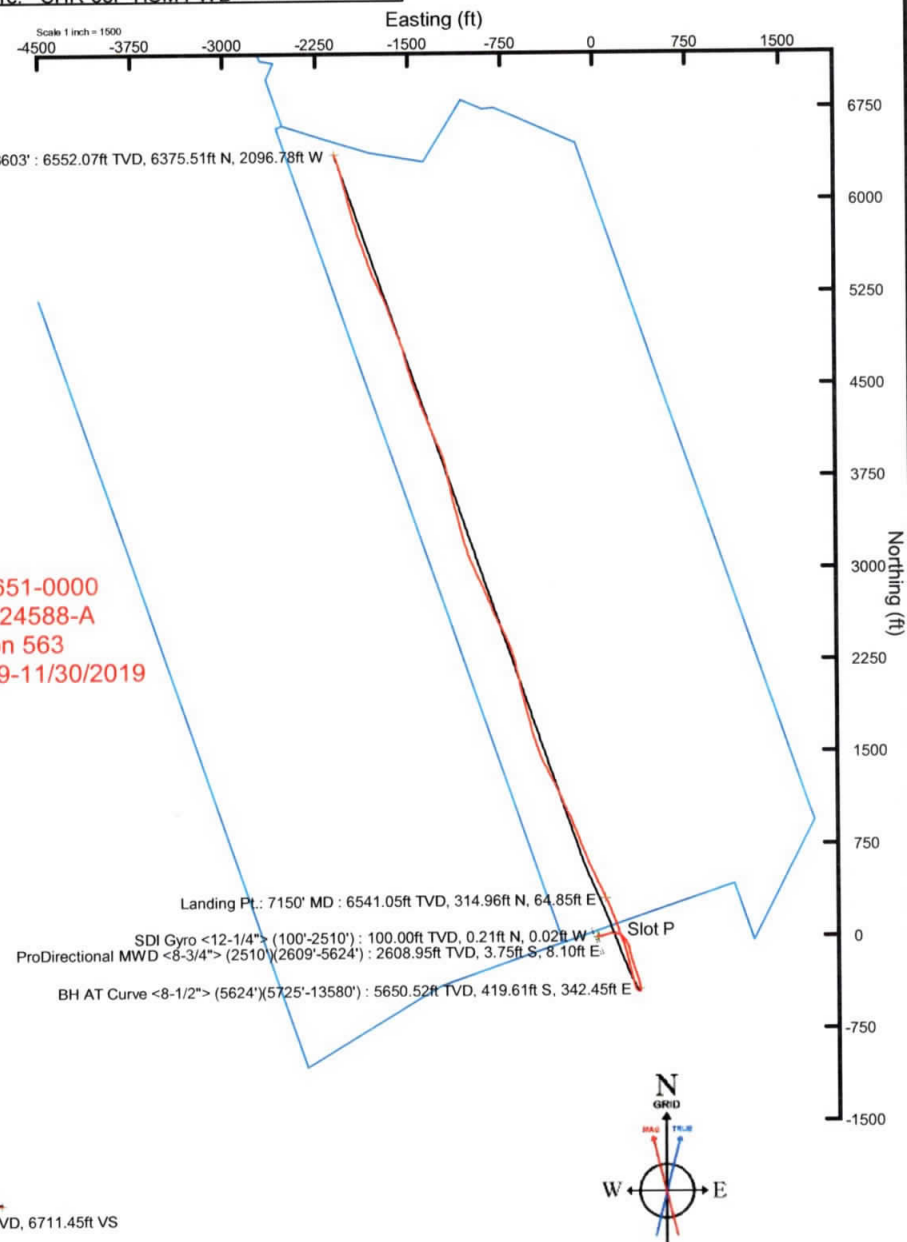
Pick reference wellpath is SHR-38P-HSM PWP RevA.0	Grid System: NAD27 / Lambert West Virginia (SP - Northern Zone (270)) US feet
True vertical depths are referenced to Patterson 563 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 563 (RKB)	Scale: True distance
Patterson 563 (RKB) to Mean Sea Level: 1041.42 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot P): -1012.42 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edjarray on 2019-12-30; Database: WA_MPL_EASTERNUS_Edms

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
SHR-38 Pad	1622485.250	320181.660	39°22'16.9839"N	80°50'7.4379"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot P	95.61	-29.33	1622455.920	320277.270	39°22'17.9245"N
Patterson 563 (RKB) to Ground level (At Slot: Slot P)					29ft
Mean Sea Level to Ground level (At Slot: Slot P)					-1012.42ft
Patterson 563 (RKB) to Mean Sea Level					1041.42ft



Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	5624.00	17.370	170.000	5553.80	-391.73	337.06	2.43
PTB	5700.00	17.370	170.000	5626.14	-414.07	341.00	0.00
Bulk/Turn	6951.19	84.364	339.845	6535.85	139.11	89.40	8.11
Landing Pt.	7035.39	90.000	336.000	6540.00	217.00	57.81	8.11
Turn	7295.40	90.000	336.000	6540.00	194.53	-47.95	0.00
Hold	7545.43	90.000	341.000	6540.00	177.09	-139.56	2.00
BHL	13561.25	90.000	343.000	6540.00	375.18	-2098.07	0.00

API: 47-095-02651-0000
 BH Job #: 110124588-A
 Rig: Patterson 563
 Duration: 11/28/2019-11/30/2019



User specified (HDGM) Dip: 66.41° Field: 51832 nT
 Magnetic North is 7.63 degrees West of True North (at 28/Nov/2019)
 Grid North is 0.85 degrees West of True North
 To correct azimuth from True to Grid add 0.85 degrees
 To correct azimuth from Magnetic to Grid subtract 6.78 degrees



Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999951	Report Generated	30/Dec/2019 at 11:25
Convergence at slot	0.85° West	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	95.61	-29.33	1622455.92	320277.27	39°22'17.9245"N	80°50'7.8295"W
Facility Reference Pt			1622485.25	320181.66	39°22'16.9839"N	80°50'7.4379"W
Field Reference Pt			609601.22	0.00	38°23'48.7532"N	84°21'9.7646"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 563 (RKB) to Facility Vertical Datum	1041.42ft
Horizontal Reference Pt	Slot	Patterson 563 (RKB) to Mean Sea Level	1041.42ft
Vertical Reference Pt	Patterson 563 (RKB)	Patterson 563 (RKB) to Ground Level at Slot (Slot P)	29.00ft
MD Reference Pt	Patterson 563 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.78°

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 JUN 17 2021
 WV Department of
 Environmental Protection



Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

WELLPATH DATA (218 stations) † = interpolated, ‡ = extrapolated station															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00	0.000	353.310	0.00	0.00	0.00	0.00	1622455.92	320277.27	39°22'17.9245"N	80°50'7.8295"W	0.00	0.000	0.00	0.00	0.00
29.00	0.000	353.310	29.00	0.00	0.00	0.00	1622455.92	320277.27	39°22'17.9245"N	80°50'7.8295"W	0.00	0.000	0.00	0.00	0.00
100.00	0.340	353.310	100.00	0.21	0.21	-0.02	1622455.90	320277.48	39°22'17.9265"N	80°50'7.8298"W	0.21	353.310	0.48	0.48	0.00
125.00	0.470	20.980	125.00	0.36	0.38	0.00	1622455.92	320277.65	39°22'17.9282"N	80°50'7.8295"W	0.38	0.534	0.92	0.52	110.68
150.00	0.380	31.930	150.00	0.49	0.54	0.08	1622456.00	320277.81	39°22'17.9299"N	80°50'7.8285"W	0.55	8.775	0.48	-0.36	43.80
175.00	0.420	43.220	175.00	0.59	0.68	0.19	1622456.11	320277.95	39°22'17.9312"N	80°50'7.8272"W	0.71	15.623	0.35	0.16	45.16
200.00	0.410	46.140	200.00	0.67	0.81	0.32	1622456.24	320278.08	39°22'17.9325"N	80°50'7.8256"W	0.87	21.415	0.09	-0.04	11.68
225.00	0.440	52.810	225.00	0.74	0.93	0.46	1622456.38	320278.20	39°22'17.9337"N	80°50'7.8238"W	1.04	26.248	0.23	0.12	26.68
250.00	0.360	47.260	250.00	0.80	1.04	0.59	1622456.51	320278.31	39°22'17.9348"N	80°50'7.8221"W	1.20	29.647	0.36	-0.32	-22.20
275.00	0.340	46.720	275.00	0.87	1.15	0.70	1622456.62	320278.42	39°22'17.9359"N	80°50'7.8207"W	1.35	31.587	0.08	-0.08	-2.16
300.00	0.300	42.890	299.99	0.93	1.24	0.80	1622456.72	320278.51	39°22'17.9369"N	80°50'7.8195"W	1.48	32.832	0.18	-0.16	-15.32
325.00	0.270	48.220	324.99	0.99	1.33	0.89	1622456.81	320278.60	39°22'17.9378"N	80°50'7.8184"W	1.60	33.799	0.16	-0.12	21.32
350.00	0.240	53.630	349.99	1.03	1.40	0.98	1622456.90	320278.67	39°22'17.9385"N	80°50'7.8173"W	1.71	34.886	0.15	-0.12	21.64
375.00	0.250	18.680	374.99	1.09	1.49	1.04	1622456.96	320278.76	39°22'17.9393"N	80°50'7.8165"W	1.81	34.937	0.59	0.04	-139.80
400.00	0.260	14.960	399.99	1.18	1.59	1.07	1622456.99	320278.86	39°22'17.9403"N	80°50'7.8162"W	1.92	33.902	0.08	0.04	-14.88
425.00	0.190	359.340	424.99	1.26	1.69	1.08	1622457.00	320278.96	39°22'17.9413"N	80°50'7.8160"W	2.01	32.704	0.37	-0.28	-62.48
450.00	0.240	350.200	449.99	1.36	1.78	1.07	1622456.99	320279.05	39°22'17.9422"N	80°50'7.8161"W	2.08	31.101	0.24	0.20	-36.56
475.00	0.360	4.860	474.99	1.48	1.91	1.07	1622456.99	320279.18	39°22'17.9435"N	80°50'7.8162"W	2.19	29.296	0.57	0.48	58.64
500.00	0.340	16.000	499.99	1.61	2.06	1.10	1622457.02	320279.33	39°22'17.9450"N	80°50'7.8159"W	2.34	28.080	0.28	-0.08	44.56
525.00	0.230	22.710	524.99	1.71	2.18	1.14	1622457.06	320279.45	39°22'17.9462"N	80°50'7.8154"W	2.46	27.609	0.46	-0.44	26.84
550.00	0.270	65.370	549.99	1.76	2.25	1.21	1622457.13	320279.52	39°22'17.9469"N	80°50'7.8145"W	2.55	28.322	0.74	0.16	170.64
575.00	0.260	109.000	574.99	1.73	2.25	1.32	1622457.24	320279.52	39°22'17.9469"N	80°50'7.8131"W	2.61	30.328	0.79	-0.04	174.52
600.00	0.350	123.420	599.99	1.64	2.19	1.44	1622457.36	320279.46	39°22'17.9464"N	80°50'7.8116"W	2.62	33.210	0.47	0.36	57.68
625.00	0.330	124.390	624.99	1.52	2.11	1.56	1622457.48	320279.38	39°22'17.9456"N	80°50'7.8100"W	2.63	36.450	0.08	-0.08	3.88
650.00	0.360	137.050	649.99	1.39	2.01	1.67	1622457.59	320279.28	39°22'17.9446"N	80°50'7.8086"W	2.62	39.716	0.33	0.12	50.64
675.00	0.370	138.660	674.99	1.24	1.90	1.78	1622457.70	320279.17	39°22'17.9435"N	80°50'7.8072"W	2.60	43.193	0.06	0.04	6.44
700.00	0.250	134.720	699.99	1.12	1.80	1.87	1622457.79	320279.07	39°22'17.9425"N	80°50'7.8060"W	2.59	46.173	0.49	-0.48	-15.76
725.00	0.220	162.010	724.99	1.02	1.71	1.93	1622457.84	320278.98	39°22'17.9417"N	80°50'7.8053"W	2.58	48.347	0.46	-0.12	109.16
750.00	0.200	191.590	749.99	0.94	1.62	1.93	1622457.85	320278.89	39°22'17.9408"N	80°50'7.8052"W	2.52	49.938	0.44	-0.08	118.32
775.00	0.090	186.740	774.99	0.88	1.56	1.92	1622457.84	320278.83	39°22'17.9402"N	80°50'7.8053"W	2.47	50.876	0.44	-0.44	-19.40

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2021
Oil and Gas



Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

WELLPATH DATA (218 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
800.00	0.050	111.280	799.99	0.86	1.54	1.93	1622457.85	320278.81	39°22'17.9399"N	80°50'7.8052"W	2.47	51.414	0.37	-0.16	-301.84
825.00	0.060	79.780	824.99	0.85	1.54	1.95	1622457.87	320278.81	39°22'17.9399"N	80°50'7.8049"W	2.48	51.775	0.13	0.04	-126.00
850.00	0.200	52.040	849.99	0.86	1.57	2.00	1622457.92	320278.84	39°22'17.9402"N	80°50'7.8043"W	2.54	51.919	0.60	0.56	-110.96
875.00	0.180	35.840	874.99	0.90	1.62	2.06	1622457.98	320278.89	39°22'17.9408"N	80°50'7.8036"W	2.62	51.683	0.23	-0.08	-64.80
900.00	0.060	60.050	899.99	0.93	1.66	2.09	1622458.01	320278.93	39°22'17.9412"N	80°50'7.8032"W	2.67	51.494	0.51	-0.48	96.84
925.00	0.090	48.500	924.99	0.94	1.68	2.12	1622458.04	320278.95	39°22'17.9414"N	80°50'7.8029"W	2.70	51.513	0.13	0.12	-46.20
950.00	0.090	240.250	949.99	0.94	1.69	2.11	1622458.03	320278.96	39°22'17.9414"N	80°50'7.8029"W	2.70	51.428	0.72	0.00	-673.00
975.00	0.160	227.580	974.99	0.92	1.65	2.07	1622457.99	320278.92	39°22'17.9411"N	80°50'7.8034"W	2.65	51.414	0.30	0.28	-50.68
1000.00	0.200	220.320	999.99	0.88	1.60	2.02	1622457.94	320278.87	39°22'17.9405"N	80°50'7.8041"W	2.57	51.653	0.18	0.16	-29.04
1025.00	0.240	243.280	1024.99	0.85	1.54	1.94	1622457.86	320278.81	39°22'17.9400"N	80°50'7.8050"W	2.48	51.607	0.38	0.16	91.84
1050.00	0.250	245.840	1049.99	0.84	1.49	1.85	1622457.77	320278.76	39°22'17.9395"N	80°50'7.8063"W	2.37	51.028	0.06	0.04	10.24
1075.00	0.150	245.650	1074.99	0.83	1.46	1.77	1622457.69	320278.73	39°22'17.9391"N	80°50'7.8073"W	2.29	50.472	0.40	-0.40	-0.76
1100.00	0.060	194.100	1099.99	0.82	1.43	1.73	1622457.65	320278.70	39°22'17.9389"N	80°50'7.8077"W	2.25	50.451	0.49	-0.36	-206.20
1125.00	0.070	240.400	1124.99	0.80	1.41	1.72	1622457.64	320278.68	39°22'17.9387"N	80°50'7.8079"W	2.22	50.583	0.21	0.04	185.20
1150.00	0.040	316.840	1149.99	0.81	1.41	1.70	1622457.62	320278.68	39°22'17.9386"N	80°50'7.8081"W	2.21	50.289	0.29	-0.12	305.76
1175.00	0.180	159.110	1174.99	0.78	1.38	1.71	1622457.62	320278.65	39°22'17.9383"N	80°50'7.8080"W	2.19	51.033	0.87	0.56	-630.92
1200.00	0.290	163.350	1199.99	0.67	1.28	1.74	1622457.66	320278.55	39°22'17.9374"N	80°50'7.8076"W	2.16	53.578	0.45	0.44	16.96
1225.00	0.350	169.500	1224.99	0.54	1.15	1.77	1622457.69	320278.42	39°22'17.9360"N	80°50'7.8072"W	2.11	57.065	0.28	0.24	24.60
1250.00	0.310	171.380	1249.99	0.39	1.00	1.79	1622457.71	320278.27	39°22'17.9346"N	80°50'7.8068"W	2.06	60.753	0.17	-0.16	7.52
1275.00	0.160	153.110	1274.99	0.29	0.91	1.82	1622457.74	320278.18	39°22'17.9337"N	80°50'7.8065"W	2.03	63.522	0.66	-0.60	-73.08
1300.00	0.150	162.170	1299.99	0.22	0.84	1.84	1622457.76	320278.11	39°22'17.9331"N	80°50'7.8061"W	2.03	65.422	0.11	-0.04	36.24
1325.00	0.220	149.180	1324.99	0.15	0.77	1.88	1622457.80	320278.04	39°22'17.9324"N	80°50'7.8057"W	2.03	67.685	0.32	0.28	-51.96
1350.00	0.110	128.680	1349.99	0.08	0.72	1.92	1622457.84	320277.99	39°22'17.9318"N	80°50'7.8051"W	2.05	69.597	0.49	-0.44	-82.00
1375.00	0.110	115.940	1374.99	0.04	0.69	1.96	1622457.88	320277.96	39°22'17.9316"N	80°50'7.8046"W	2.08	70.642	0.10	0.00	-50.96
1400.00	0.170	108.950	1399.99	0.00	0.67	2.02	1622457.94	320277.94	39°22'17.9314"N	80°50'7.8039"W	2.13	71.720	0.25	0.24	-27.96
1425.00	0.110	127.090	1424.99	-0.04	0.64	2.07	1622457.99	320277.91	39°22'17.9311"N	80°50'7.8032"W	2.17	72.834	0.30	-0.24	72.56
1450.00	0.160	91.490	1449.99	-0.07	0.63	2.13	1622458.05	320277.90	39°22'17.9310"N	80°50'7.8025"W	2.22	73.626	0.38	0.20	-142.40
1475.00	0.100	93.450	1474.99	-0.09	0.62	2.18	1622458.10	320277.89	39°22'17.9309"N	80°50'7.8018"W	2.27	74.082	0.24	-0.24	7.84
1500.00	0.150	106.060	1499.99	-0.12	0.61	2.24	1622458.16	320277.88	39°22'17.9308"N	80°50'7.8011"W	2.32	74.689	0.23	0.20	50.44
1525.00	0.250	96.580	1524.99	-0.16	0.60	2.32	1622458.24	320277.87	39°22'17.9307"N	80°50'7.8000"W	2.40	75.581	0.42	0.40	-37.92

Department of Environmental Protection
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 and Gas



Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'
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Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
1550.00	0.330	110.000	1549.99	-0.23	0.57	2.45	1622458.37	320277.84	39°22'17.9304"N	80°50'7.7984"W	2.51	76.956	0.42	0.32	53.68
1575.00	0.350	104.600	1574.99	-0.31	0.52	2.59	1622458.51	320277.79	39°22'17.9300"N	80°50'7.7966"W	2.64	78.578	0.15	0.08	-21.60
1600.00	0.340	118.380	1599.98	-0.41	0.47	2.73	1622458.65	320277.74	39°22'17.9295"N	80°50'7.7949"W	2.77	80.256	0.33	-0.04	55.12
1625.00	0.300	112.240	1624.98	-0.50	0.41	2.85	1622458.77	320277.68	39°22'17.9289"N	80°50'7.7932"W	2.88	81.856	0.21	-0.16	-24.56
1650.00	0.300	98.200	1649.98	-0.58	0.37	2.98	1622458.90	320277.64	39°22'17.9286"N	80°50'7.7916"W	3.00	82.840	0.29	0.00	-56.16
1675.00	0.320	103.090	1674.98	-0.64	0.35	3.11	1622459.03	320277.62	39°22'17.9284"N	80°50'7.7899"W	3.13	83.599	0.13	0.08	19.56
1700.00	0.350	93.800	1699.98	-0.71	0.33	3.25	1622459.17	320277.60	39°22'17.9282"N	80°50'7.7881"W	3.27	84.244	0.25	0.12	-37.16
1725.00	0.440	84.770	1724.98	-0.76	0.33	3.43	1622459.35	320277.60	39°22'17.9282"N	80°50'7.7859"W	3.44	84.470	0.44	0.36	-36.12
1750.00	0.570	99.920	1749.98	-0.84	0.32	3.64	1622459.56	320277.59	39°22'17.9281"N	80°50'7.7831"W	3.66	84.997	0.74	0.52	60.60
1775.00	0.650	90.880	1774.98	-0.94	0.30	3.91	1622459.83	320277.57	39°22'17.9280"N	80°50'7.7798"W	3.92	85.677	0.50	0.32	-36.16
1800.00	0.640	98.810	1799.98	-1.05	0.27	4.19	1622460.11	320277.54	39°22'17.9278"N	80°50'7.7762"W	4.20	86.286	0.36	-0.04	31.72
1825.00	0.620	105.330	1824.98	-1.19	0.21	4.46	1622460.38	320277.48	39°22'17.9272"N	80°50'7.7728"W	4.46	87.242	0.30	-0.08	26.08
1850.00	0.610	103.460	1849.98	-1.33	0.15	4.72	1622460.64	320277.42	39°22'17.9266"N	80°50'7.7695"W	4.72	88.203	0.09	-0.04	-7.48
1875.00	0.540	108.330	1874.97	-1.47	0.08	4.96	1622460.88	320277.35	39°22'17.9260"N	80°50'7.7664"W	4.96	89.076	0.34	-0.28	19.48
1900.00	0.490	110.180	1899.97	-1.61	0.01	5.17	1622461.09	320277.28	39°22'17.9253"N	80°50'7.7637"W	5.17	89.933	0.21	-0.20	7.40
1925.00	0.550	121.110	1924.97	-1.77	-0.09	5.37	1622461.29	320277.18	39°22'17.9243"N	80°50'7.7610"W	5.37	90.990	0.46	0.24	43.72
1950.00	0.560	114.830	1949.97	-1.94	-0.21	5.59	1622461.51	320277.06	39°22'17.9232"N	80°50'7.7583"W	5.59	92.113	0.25	0.04	-25.12
1975.00	0.600	110.690	1974.97	-2.11	-0.30	5.82	1622461.74	320276.97	39°22'17.9223"N	80°50'7.7553"W	5.83	92.987	0.23	0.16	-16.56
2000.00	0.460	115.850	1999.97	-2.26	-0.39	6.03	1622461.95	320276.88	39°22'17.9215"N	80°50'7.7526"W	6.05	93.734	0.59	-0.56	20.64
2025.00	0.700	105.830	2024.97	-2.42	-0.48	6.27	1622462.19	320276.79	39°22'17.9206"N	80°50'7.7496"W	6.29	94.370	1.04	0.96	-40.08
2050.00	0.630	108.190	2049.97	-2.58	-0.56	6.55	1622462.47	320276.71	39°22'17.9199"N	80°50'7.7460"W	6.57	94.920	0.30	-0.28	9.44
2075.00	0.500	117.290	2074.96	-2.74	-0.66	6.78	1622462.69	320276.61	39°22'17.9190"N	80°50'7.7431"W	6.81	95.535	0.63	-0.52	36.40
2100.00	0.550	123.300	2099.96	-2.91	-0.77	6.97	1622462.89	320276.50	39°22'17.9179"N	80°50'7.7406"W	7.01	96.322	0.30	0.20	24.04
2125.00	0.630	126.970	2124.96	-3.12	-0.92	7.18	1622463.10	320276.35	39°22'17.9164"N	80°50'7.7379"W	7.24	97.307	0.35	0.32	14.68
2150.00	0.540	141.210	2149.96	-3.34	-1.10	7.37	1622463.29	320276.17	39°22'17.9147"N	80°50'7.7355"W	7.45	98.459	0.68	-0.36	56.96
2175.00	0.480	146.710	2174.96	-3.56	-1.27	7.50	1622463.42	320276.00	39°22'17.9130"N	80°50'7.7338"W	7.60	99.650	0.31	-0.24	22.00
2200.00	0.540	140.750	2199.96	-3.77	-1.45	7.63	1622463.55	320275.82	39°22'17.9112"N	80°50'7.7321"W	7.77	100.787	0.32	0.24	-23.84
2225.00	0.410	140.160	2224.96	-3.96	-1.61	7.76	1622463.68	320275.66	39°22'17.9097"N	80°50'7.7304"W	7.93	101.744	0.52	-0.52	-2.36
2250.00	0.410	135.370	2249.96	-4.12	-1.75	7.88	1622463.80	320275.52	39°22'17.9084"N	80°50'7.7288"W	8.07	102.490	0.14	0.00	-19.16
2275.00	0.460	140.680	2274.96	-4.30	-1.89	8.01	1622463.93	320275.38	39°22'17.9070"N	80°50'7.7272"W	8.23	103.261	0.26	0.20	21.24

Approved for Release by the Oklahoma Department of Environmental Protection
 11/17/2021



Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

WELLPATH DATA (218 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2300.00	0.410	145.010	2299.96	-4.48	-2.04	8.12	1622464.04	320275.23	39°22'17.9055"N	80°50'7.7257"W	8.37	104.086	0.24	-0.20	17.32
2325.00	0.290	145.500	2324.96	-4.62	-2.16	8.21	1622464.13	320275.11	39°22'17.9043"N	80°50'7.7245"W	8.49	104.763	0.48	-0.48	1.96
2350.00	0.260	151.940	2349.96	-4.74	-2.27	8.27	1622464.19	320275.00	39°22'17.9033"N	80°50'7.7237"W	8.58	105.317	0.17	-0.12	25.76
2375.00	0.350	158.870	2374.96	-4.87	-2.39	8.33	1622464.25	320274.88	39°22'17.9021"N	80°50'7.7230"W	8.66	105.996	0.39	0.36	27.72
2400.00	0.410	161.670	2399.95	-5.04	-2.54	8.38	1622464.30	320274.73	39°22'17.9006"N	80°50'7.7223"W	8.76	106.878	0.25	0.24	11.20
2425.00	0.350	172.290	2424.95	-5.20	-2.70	8.42	1622464.34	320274.57	39°22'17.8990"N	80°50'7.7218"W	8.84	107.801	0.37	-0.24	42.48
2450.00	0.300	173.030	2449.95	-5.34	-2.84	8.44	1622464.36	320274.43	39°22'17.8976"N	80°50'7.7215"W	8.91	108.627	0.20	-0.20	2.96
2475.00	0.400	165.640	2474.95	-5.49	-2.99	8.47	1622464.39	320274.28	39°22'17.8961"N	80°50'7.7211"W	8.98	109.470	0.44	0.40	-29.56
2500.00	0.500	192.870	2499.95	-5.67	-3.18	8.47	1622464.39	320274.09	39°22'17.8942"N	80°50'7.7211"W	9.04	110.616	0.93	0.40	108.92
2510.00	0.570	230.280	2509.95	-5.73	-3.26	8.42	1622464.34	320274.01	39°22'17.8935"N	80°50'7.7217"W	9.03	111.165	3.49	0.70	374.10
2609.00	0.220	162.350	2608.95	-6.10	-3.75	8.10	1622464.02	320273.52	39°22'17.8885"N	80°50'7.7257"W	8.92	114.880	0.53	-0.35	-68.62
2692.00	2.610	83.430	2691.92	-6.64	-3.69	10.02	1622465.94	320273.58	39°22'17.8895"N	80°50'7.7012"W	10.68	110.215	3.10	2.88	-95.08
2786.00	5.480	70.740	2785.68	-6.99	-1.96	16.39	1622472.31	320275.31	39°22'17.9075"N	80°50'7.6205"W	16.50	96.836	3.18	3.05	-13.50
2880.00	7.200	65.140	2879.10	-6.23	1.99	25.97	1622481.89	320279.26	39°22'17.9480"N	80°50'7.4992"W	26.05	85.612	1.94	1.83	-5.96
2975.00	7.600	84.350	2973.32	-6.91	5.11	37.63	1622493.54	320282.38	39°22'17.9805"N	80°50'7.3514"W	37.97	82.259	2.63	0.42	20.22
3069.00	9.100	79.550	3066.33	-9.26	7.07	51.12	1622507.04	320284.34	39°22'18.0019"N	80°50'7.1799"W	51.61	82.121	1.76	1.60	-5.11
3164.00	9.810	74.040	3160.04	-10.60	10.66	66.29	1622522.21	320287.93	39°22'18.0396"N	80°50'6.9875"W	67.14	80.862	1.21	0.75	-5.80
3258.00	10.690	71.350	3252.54	-10.85	15.65	82.25	1622538.17	320292.92	39°22'18.0912"N	80°50'6.7852"W	83.73	79.225	1.07	0.94	-2.86
3353.00	10.300	74.130	3345.95	-11.13	20.79	98.77	1622554.68	320298.06	39°22'18.1445"N	80°50'6.5759"W	100.93	78.112	0.67	-0.41	2.93
3448.00	11.890	82.420	3439.17	-13.29	24.41	116.64	1622572.56	320301.68	39°22'18.1828"N	80°50'6.3490"W	119.17	78.182	2.37	1.67	8.73
3542.00	11.310	98.020	3531.28	-19.15	24.40	135.37	1622591.29	320301.67	39°22'18.1855"N	80°50'6.1105"W	137.55	79.783	3.38	-0.62	16.60
3637.00	10.780	104.710	3624.52	-28.10	20.84	153.19	1622609.10	320298.11	39°22'18.1529"N	80°50'5.8830"W	154.60	82.252	1.46	-0.56	7.04
3731.00	11.710	106.340	3716.72	-38.29	15.93	170.85	1622626.76	320293.20	39°22'18.1069"N	80°50'5.6572"W	171.59	84.674	1.05	0.99	1.73
3826.00	11.180	125.030	3809.86	-51.14	7.92	187.65	1622643.56	320285.19	39°22'18.0303"N	80°50'5.4419"W	187.81	87.582	3.93	-0.56	19.67
3921.00	9.100	143.450	3903.39	-65.66	-3.40	199.67	1622655.58	320273.87	39°22'17.9202"N	80°50'5.2867"W	199.70	90.976	4.03	-2.19	19.39
4015.00	10.080	140.230	3996.08	-80.37	-15.70	209.36	1622665.27	320261.58	39°22'17.8001"N	80°50'5.1610"W	209.94	94.287	1.19	1.04	-3.43
4110.00	10.470	145.700	4089.56	-96.39	-29.22	219.54	1622675.45	320248.05	39°22'17.6680"N	80°50'5.0288"W	221.48	97.580	1.11	0.41	5.76
4204.00	12.460	141.420	4181.68	-114.11	-44.20	230.68	1622686.59	320233.07	39°22'17.5215"N	80°50'4.8841"W	234.87	100.847	2.30	2.12	-4.55
4299.00	12.280	153.500	4274.49	-133.72	-61.26	241.58	1622697.49	320216.02	39°22'17.3546"N	80°50'4.7421"W	249.22	104.229	2.73	-0.19	12.72
4394.00	12.860	162.490	4367.22	-154.29	-80.38	249.27	1622705.18	320196.89	39°22'17.1667"N	80°50'4.6406"W	261.91	107.873	2.15	0.61	9.46

Direction of
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Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

WELLPATH DATA (218 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
4489.00	13.570	169.320	4459.71	-175.91	-101.42	254.51	1622710.42	320175.86	39°22'16.9596"N	80°50'4.5698"W	273.98	111.726	1.80	0.75	7.19
4583.00	15.070	168.920	4550.79	-198.97	-124.25	258.91	1622714.81	320153.03	39°22'16.7346"N	80°50'4.5096"W	287.18	115.636	1.60	1.60	-0.43
4678.00	14.050	164.870	4642.74	-222.74	-147.50	264.29	1622720.20	320129.78	39°22'16.5056"N	80°50'4.4366"W	302.67	119.166	1.52	-1.07	-4.26
4772.00	16.840	167.290	4733.34	-247.69	-171.80	270.27	1622726.17	320105.48	39°22'16.2663"N	80°50'4.3560"W	320.25	122.443	3.05	2.97	2.57
4867.00	14.760	163.370	4824.74	-273.49	-196.83	276.76	1622732.66	320080.45	39°22'16.0200"N	80°50'4.2686"W	339.61	125.420	2.46	-2.19	-4.13
4962.00	16.440	163.190	4916.24	-299.03	-221.29	284.11	1622740.01	320055.99	39°22'15.7793"N	80°50'4.1704"W	360.12	127.915	1.77	1.77	-0.19
5057.00	15.910	160.590	5007.48	-325.49	-246.44	292.32	1622748.23	320030.84	39°22'15.5319"N	80°50'4.0610"W	382.34	130.132	0.94	-0.56	-2.74
5152.00	16.570	161.120	5098.69	-352.05	-271.54	301.03	1622756.94	320005.74	39°22'15.2852"N	80°50'3.9454"W	405.41	132.051	0.71	0.69	0.56
5246.00	15.690	158.780	5188.99	-378.15	-296.07	309.97	1622765.88	319981.21	39°22'15.0441"N	80°50'3.8269"W	428.65	133.686	1.16	-0.94	-2.49
5341.00	15.510	164.910	5280.50	-403.66	-320.31	317.93	1622773.83	319956.97	39°22'14.8057"N	80°50'3.7210"W	451.31	135.214	1.74	-0.19	6.45
5435.00	13.700	160.720	5371.46	-427.34	-342.96	324.88	1622780.78	319934.33	39°22'14.5829"N	80°50'3.6283"W	472.40	136.551	2.23	-1.93	-4.46
5530.00	15.380	166.060	5463.42	-451.15	-365.81	331.63	1622787.53	319911.48	39°22'14.3581"N	80°50'3.5380"W	493.75	137.805	2.26	1.77	5.62
5624.00	17.370	170.020	5553.60	-477.47	-391.73	337.06	1622792.97	319885.56	39°22'14.1027"N	80°50'3.4639"W	516.78	139.289	2.43	2.12	4.21
5725.00	15.300	167.980	5650.52	-505.65	-419.61	342.45	1622798.35	319857.68	39°22'13.8280"N	80°50'3.3900"W	541.61	140.781	2.13	-2.05	-2.02
5820.00	8.040	191.170	5743.54	-523.93	-438.42	343.78	1622799.68	319838.87	39°22'13.6422"N	80°50'3.3696"W	557.13	141.899	8.95	-7.64	24.41
5915.00	3.170	243.570	5838.11	-530.10	-446.12	340.13	1622796.04	319831.18	39°22'13.5657"N	80°50'3.4145"W	560.99	142.677	6.95	-5.13	55.16
6010.00	6.730	286.810	5932.76	-527.28	-445.68	332.45	1622788.35	319831.62	39°22'13.5689"N	80°50'3.5125"W	556.01	143.279	5.18	3.75	45.52
6105.00	11.380	302.720	6026.57	-516.80	-439.00	319.23	1622775.13	319838.30	39°22'13.6330"N	80°50'3.6821"W	542.79	143.976	5.51	4.89	16.75
6200.00	17.340	335.100	6118.70	-495.41	-421.05	305.35	1622761.25	319856.25	39°22'13.8083"N	80°50'3.8622"W	520.11	144.050	10.30	6.27	34.08
6294.00	27.530	344.440	6205.50	-459.69	-387.31	293.59	1622749.49	319889.98	39°22'14.1400"N	80°50'4.0183"W	486.01	142.838	11.45	10.84	9.94
6389.00	37.430	347.070	6285.54	-408.88	-337.90	281.21	1622737.11	319939.39	39°22'14.6265"N	80°50'4.1853"W	439.60	140.232	10.52	10.42	2.77
6483.00	47.570	346.910	6354.76	-345.72	-276.11	266.92	1622722.83	320001.18	39°22'15.2351"N	80°50'4.3788"W	384.03	135.969	10.79	10.79	-0.17
6579.00	57.840	345.940	6412.85	-269.70	-201.98	248.98	1622704.88	320075.30	39°22'15.9650"N	80°50'4.6213"W	320.60	129.051	10.73	10.70	-1.01
6673.00	67.770	343.890	6455.76	-186.32	-121.38	227.18	1622683.09	320155.90	39°22'16.7583"N	80°50'4.9141"W	257.57	118.114	10.74	10.56	-2.18
6771.00	71.820	341.660	6489.60	-94.39	-33.56	199.93	1622655.84	320243.71	39°22'17.6221"N	80°50'5.2776"W	202.73	99.530	4.65	4.13	-2.28
6866.00	78.630	340.170	6513.81	-2.60	53.19	169.90	1622625.81	320330.45	39°22'18.4750"N	80°50'5.6764"W	178.03	72.617	7.33	7.17	-1.57
6961.00	82.190	339.300	6529.64	90.99	141.04	137.45	1622593.37	320418.31	39°22'19.3385"N	80°50'6.1061"W	196.94	44.262	3.85	3.75	-0.92
7055.00	86.800	337.130	6538.66	184.35	227.90	102.73	1622558.65	320505.15	39°22'20.1917"N	80°50'6.5646"W	249.98	24.266	5.42	4.90	-2.31
7150.00	90.310	335.840	6541.05	278.90	314.96	64.85	1622520.77	320592.22	39°22'21.0466"N	80°50'7.0634"W	321.57	11.634	3.94	3.69	-1.36
7245.00	90.310	334.450	6540.54	373.26	401.16	24.92	1622480.84	320678.41	39°22'21.8926"N	80°50'7.5881"W	401.93	3.555	1.46	0.00	-1.46

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Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

WELLPATH DATA (218 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	
7340.00	89.880	334.570	6540.38	467.49	486.91	-15.96	1622439.96	320764.16	39°22'22.7340"N	80°50'8.1249"W	487.17	358.122	0.47	-0.45	0.13	
7434.00	89.880	335.960	6540.58	560.88	572.29	-55.29	1622400.63	320849.53	39°22'23.5720"N	80°50'8.6418"W	574.95	354.481	1.48	0.00	1.48	
7529.00	89.910	337.180	6540.75	655.49	659.45	-93.07	1622362.86	320936.69	39°22'24.4278"N	80°50'9.1393"W	665.99	351.967	1.28	0.03	1.28	
7625.00	90.150	338.860	6540.70	751.28	748.47	-129.00	1622326.93	321025.70	39°22'25.3023"N	80°50'9.6136"W	759.51	350.221	1.77	0.25	1.75	
7719.00	90.520	339.760	6540.15	845.19	836.41	-162.21	1622293.72	321113.63	39°22'26.1664"N	80°50'10.0531"W	851.99	349.025	1.04	0.39	0.96	
7814.00	90.310	338.010	6539.46	940.06	925.02	-196.43	1622259.50	321202.24	39°22'27.0371"N	80°50'10.5056"W	945.65	348.011	1.86	-0.22	-1.84	
7908.00	90.370	334.280	6538.90	1033.59	1010.97	-234.44	1622221.49	321288.19	39°22'27.8809"N	80°50'11.0058"W	1037.80	346.944	3.97	0.06	-3.97	
8003.00	90.280	336.610	6538.37	1128.00	1097.38	-273.91	1622182.02	321374.59	39°22'28.7290"N	80°50'11.5248"W	1131.04	345.985	2.45	-0.09	2.45	
8098.00	90.220	335.590	6537.95	1222.53	1184.23	-312.40	1622143.54	321461.44	39°22'29.5817"N	80°50'12.0313"W	1224.74	345.222	1.08	-0.06	-1.07	
8193.00	90.400	333.030	6537.44	1316.72	1269.83	-353.58	1622102.36	321547.03	39°22'30.4216"N	80°50'12.5718"W	1318.14	344.440	2.70	0.19	-2.69	
8287.00	90.250	331.740	6536.90	1409.45	1353.12	-397.15	1622058.79	321630.32	39°22'31.2382"N	80°50'13.1424"W	1410.20	343.643	1.38	-0.16	-1.37	
8382.00	90.060	335.920	6536.65	1503.52	1438.36	-439.04	1622016.90	321715.56	39°22'32.0745"N	80°50'13.6919"W	1503.87	343.026	4.40	-0.20	4.40	
8477.00	90.090	340.810	6536.52	1598.32	1526.64	-474.05	1621981.89	321803.83	39°22'32.9418"N	80°50'14.1544"W	1598.55	342.749	5.15	0.03	5.15	
8571.00	90.030	342.950	6536.42	1692.31	1615.97	-503.29	1621952.66	321893.16	39°22'33.8203"N	80°50'14.5436"W	1692.53	342.701	2.28	-0.06	2.28	
8666.00	89.970	344.890	6536.42	1787.24	1707.25	-529.60	1621926.35	321984.43	39°22'34.7185"N	80°50'14.8959"W	1787.51	342.766	2.04	-0.06	2.04	
8761.00	90.030	346.020	6536.42	1882.05	1799.21	-553.46	1621902.49	322076.38	39°22'35.6237"N	80°50'15.2171"W	1882.41	342.902	1.19	0.06	1.19	
8855.00	90.090	345.240	6536.32	1975.83	1890.26	-576.78	1621879.16	322167.44	39°22'36.5202"N	80°50'15.5314"W	1976.30	343.031	0.83	0.06	-0.83	
8950.00	89.910	346.140	6536.32	2070.61	1982.32	-600.27	1621855.69	322259.48	39°22'37.4264"N	80°50'15.8479"W	2071.21	343.153	0.97	-0.19	0.95	
9045.00	90.030	347.970	6536.37	2165.20	2074.90	-621.55	1621834.41	322352.06	39°22'38.3382"N	80°50'16.1364"W	2165.99	343.324	1.93	0.13	1.93	
9139.00	90.150	347.710	6536.23	2258.68	2166.79	-641.35	1621814.61	322443.95	39°22'39.2434"N	80°50'16.4059"W	2259.71	343.512	0.30	0.13	-0.28	
9234.00	90.370	344.970	6535.80	2353.37	2259.09	-663.78	1621792.17	322536.24	39°22'40.1523"N	80°50'16.7091"W	2354.59	343.626	2.89	0.23	-2.88	
9329.00	90.060	339.670	6535.44	2448.33	2349.57	-692.62	1621763.34	322626.72	39°22'41.0422"N	80°50'17.0935"W	2449.53	343.575	5.59	-0.33	-5.58	
9424.00	89.690	335.130	6535.65	2543.03	2437.25	-729.12	1621726.84	322714.40	39°22'41.9033"N	80°50'17.5748"W	2543.98	343.345	4.79	-0.39	-4.78	
9518.00	89.720	332.810	6536.13	2636.15	2521.71	-770.37	1621685.59	322798.85	39°22'42.7319"N	80°50'18.1161"W	2636.76	343.012	2.47	0.03	-2.47	
9613.00	89.660	335.470	6536.64	2730.29	2607.19	-811.80	1621644.16	322884.32	39°22'43.5706"N	80°50'18.6599"W	2730.65	342.705	2.80	-0.06	2.80	
9707.00	89.820	337.820	6537.07	2823.91	2693.48	-849.06	1621606.90	322970.61	39°22'44.4178"N	80°50'19.1507"W	2824.13	342.504	2.51	0.17	2.50	
9802.00	89.780	337.170	6537.40	2918.64	2781.24	-885.42	1621570.54	323058.37	39°22'45.2798"N	80°50'19.6304"W	2918.78	342.341	0.69	-0.04	-0.68	
9897.00	89.780	335.390	6537.77	3013.20	2868.22	-923.64	1621532.33	323145.34	39°22'46.1337"N	80°50'20.1335"W	3013.26	342.150	1.87	0.00	-1.87	
9991.00	89.660	335.010	6538.23	3106.58	2953.54	-963.06	1621492.91	323230.66	39°22'46.9711"N	80°50'20.6517"W	3106.59	341.940	0.42	-0.13	-0.40	
10086.00	89.350	336.260	6539.05	3201.03	3040.08	-1002.25	1621453.72	323317.19	39°22'47.8205"N	80°50'21.1671"W	3201.03	341.754	1.36	-0.33	1.32	

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SHR-38P-HSM AWP Proj: 13603'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

WELLPATH DATA (218 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
10181.00	89.380	340.980	6540.10	3295.85	3128.51	-1036.87	1621419.10	323405.62	39°22'48.6894"N	80°50'21.6248"W	3295.86	341.663	4.97	0.03	4.97
10275.00	89.820	345.080	6540.76	3389.81	3218.40	-1064.30	1621391.67	323495.50	39°22'49.5736"N	80°50'21.9911"W	3389.81	341.701	4.39	0.47	4.36
10370.00	89.750	344.650	6541.11	3484.67	3310.10	-1089.11	1621366.87	323587.20	39°22'50.4762"N	80°50'22.3244"W	3484.67	341.787	0.46	-0.07	-0.45
10465.00	89.780	344.800	6541.50	3579.54	3401.74	-1114.13	1621341.84	323678.84	39°22'51.3782"N	80°50'22.6605"W	3579.55	341.865	0.16	0.03	0.16
10559.00	89.780	345.760	6541.86	3673.37	3492.66	-1138.02	1621317.96	323769.75	39°22'52.2731"N	80°50'22.9819"W	3673.38	341.953	1.02	0.00	1.02
10654.00	89.910	346.790	6542.12	3768.07	3584.94	-1160.56	1621295.42	323862.03	39°22'53.1818"N	80°50'23.2864"W	3768.12	342.062	1.09	0.14	1.08
10749.00	90.310	348.240	6541.94	3862.59	3677.69	-1181.10	1621274.89	323954.77	39°22'54.0954"N	80°50'23.5655"W	3862.69	342.196	1.58	0.42	1.53
10844.00	90.030	348.380	6541.66	3956.98	3770.72	-1200.34	1621255.64	324047.80	39°22'55.0119"N	80°50'23.8283"W	3957.17	342.342	0.33	-0.29	0.15
10938.00	90.250	345.390	6541.43	4050.59	3862.26	-1221.67	1621234.31	324139.33	39°22'55.9134"N	80°50'24.1173"W	4050.87	342.447	3.19	0.23	-3.18
11033.00	90.340	338.670	6540.94	4145.54	3952.57	-1250.96	1621205.02	324229.64	39°22'56.8016"N	80°50'24.5074"W	4145.81	342.438	7.07	0.09	-7.07
11128.00	89.820	336.720	6540.81	4240.29	4040.46	-1287.02	1621168.97	324317.52	39°22'57.6648"N	80°50'24.9832"W	4240.49	342.332	2.12	-0.55	-2.05
11222.00	90.090	338.420	6540.88	4334.03	4127.34	-1322.88	1621133.11	324404.40	39°22'58.5181"N	80°50'25.4564"W	4334.16	342.228	1.83	0.29	1.81
11317.00	90.030	337.990	6540.78	4428.85	4215.55	-1358.15	1621097.84	324492.61	39°22'59.3847"N	80°50'25.9224"W	4428.94	342.142	0.46	-0.06	-0.45
11412.00	90.000	338.570	6540.75	4523.67	4303.81	-1393.31	1621062.68	324580.86	39°23'0.2517"N	80°50'26.3868"W	4523.72	342.061	0.61	-0.03	0.61
11506.00	89.660	338.680	6541.03	4617.53	4391.34	-1427.57	1621028.42	324668.39	39°23'1.1117"N	80°50'26.8397"W	4617.56	341.991	0.38	-0.36	0.12
11601.00	89.630	340.090	6541.62	4712.44	4480.25	-1461.02	1620994.98	324757.29	39°23'1.9854"N	80°50'27.2825"W	4712.46	341.939	1.48	-0.03	1.48
11696.00	89.600	342.230	6542.26	4807.43	4570.16	-1491.69	1620964.30	324847.19	39°23'2.8693"N	80°50'27.6903"W	4807.44	341.923	2.25	-0.03	2.25
11790.00	89.630	344.790	6542.89	4901.37	4660.28	-1518.37	1620937.63	324937.31	39°23'3.7560"N	80°50'28.0471"W	4901.40	341.954	2.72	0.03	2.72
11885.00	90.400	344.900	6542.87	4996.24	4751.98	-1543.21	1620912.79	325029.00	39°23'4.6586"N	80°50'28.3808"W	4996.28	342.009	0.82	0.81	0.12
11980.00	90.580	341.340	6542.05	5091.19	4842.87	-1570.79	1620885.21	325119.89	39°23'5.5527"N	80°50'28.7493"W	5091.24	342.029	3.75	0.19	-3.75
12075.00	89.850	337.820	6541.70	5186.11	4931.88	-1603.93	1620852.08	325208.90	39°23'6.4275"N	80°50'29.1883"W	5186.14	341.985	3.78	-0.77	-3.71
12169.00	89.420	340.350	6542.30	5279.99	5019.68	-1637.48	1620818.53	325296.69	39°23'7.2902"N	80°50'29.6322"W	5280.01	341.933	2.73	-0.46	2.69
12264.00	89.910	340.640	6542.85	5374.97	5109.22	-1669.20	1620786.81	325386.23	39°23'8.1705"N	80°50'30.0532"W	5374.98	341.908	0.60	0.52	0.31
12359.00	89.850	337.020	6543.05	5469.82	5197.80	-1703.50	1620752.51	325474.80	39°23'9.0407"N	80°50'30.5068"W	5469.83	341.854	3.81	-0.06	-3.81
12453.00	89.660	334.170	6543.45	5563.27	5283.39	-1742.34	1620713.67	325560.39	39°23'9.8808"N	80°50'31.0177"W	5563.27	341.749	3.04	-0.20	-3.03
12548.00	89.390	335.360	6544.24	5657.55	5369.32	-1782.83	1620673.18	325646.31	39°23'10.7241"N	80°50'31.5498"W	5657.57	341.632	1.28	-0.28	1.25
12643.00	89.510	341.260	6545.15	5752.33	5457.55	-1817.93	1620638.09	325734.54	39°23'11.5908"N	80°50'32.0135"W	5752.37	341.577	6.21	0.13	6.21
12738.00	89.940	340.950	6545.61	5847.32	5547.43	-1848.69	1620607.32	325824.41	39°23'12.4745"N	80°50'32.4223"W	5847.36	341.569	0.56	0.45	-0.33
12832.00	89.420	339.650	6546.14	5941.29	5635.99	-1880.38	1620575.64	325912.90	39°23'13.3444"N	80°50'32.8427"W	5941.33	341.549	1.49	-0.55	-1.38
12927.00	89.510	341.590	6547.02	6036.26	5725.53	-1911.90	1620544.12	326002.51	39°23'14.2253"N	80°50'33.2611"W	6036.31	341.535	2.04	0.09	2.04

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Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

WELLPATH DATA (218 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
13022.00	89.540	345.040	6547.81	6131.21	5816.52	-1939.17	1620516.85	326093.49	39°23'15.1204"N	80°50'33.6257"W	6131.25	341.562	3.63	0.03	3.63
13116.00	89.410	345.570	6548.67	6225.02	5907.44	-1963.01	1620493.01	326184.40	39°23'16.0154"N	80°50'33.9467"W	6225.05	341.619	0.58	-0.14	0.56
13211.00	89.540	344.810	6549.54	6319.85	5999.28	-1987.30	1620468.73	326276.24	39°23'16.9194"N	80°50'34.2734"W	6319.86	341.672	0.81	0.14	-0.80
13306.00	89.600	345.560	6550.25	6414.68	6091.12	-2011.59	1620444.44	326368.07	39°23'17.8234"N	80°50'34.6002"W	6414.68	341.724	0.79	0.06	0.79
13400.00	89.720	344.690	6550.81	6508.52	6181.96	-2035.72	1620420.31	326458.91	39°23'18.7176"N	80°50'34.9248"W	6508.52	341.773	0.93	0.13	-0.93
13495.00	89.660	342.580	6551.33	6603.46	6273.11	-2062.48	1620393.55	326550.05	39°23'19.6144"N	80°50'35.2830"W	6603.46	341.800	2.22	-0.06	-2.22
13580.00	89.570	340.770	6551.90	6688.46	6353.79	-2089.20	1620366.82	326630.74	39°23'20.4078"N	80°50'35.6387"W	6688.46	341.799	2.13	-0.11	-2.13
13603.00†	89.570	340.770	6552.07	6711.45	6375.51	-2096.78	1620359.25	326652.45	39°23'20.6213"N	80°50'35.7393"W	6711.45	341.795	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: SHR-38P-HSM AWB Ref Wellpath: SHR-38P-HSM AWP Proj: 13603'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
26in Conductor	29.00	129.00	100.00	29.00	129.00	0.00	0.00	0.41	0.02
17.5in Open Hole	129.00	675.00	546.00	129.00	674.99	0.41	0.02	1.90	1.78
13.375in Casing Surface	29.00	626.40	597.40	29.00	626.39	0.00	0.00	2.11	1.57
12.25in Open Hole	675.00	2642.00	1967.00	674.99	2641.95	1.90	1.78	-3.82	8.42
9.625in Casing Intermediate	29.00	2580.00	2551.00	29.00	2579.95	0.00	0.00	-3.64	8.10
8.75in Open Hole	2642.00	5700.00	3058.00	2641.95	5626.44	-3.82	8.42	-413.05	341.09
8.5in Open Hole	5700.00	13603.00	7903.00	5626.44	6552.07	-413.05	341.09	6375.51	-2096.78
5.5in Casing Production	29.00	13603.00	13574.00	29.00	6552.07	0.00	0.00	6375.51	-2096.78

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Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SHR-38P-HSM - BHL - Rev-3	6540.00	6375.18	-2098.07	1620357.96	326652.12	39°23'20.6178"N	80°50'35.7557"W	point
SHR-38P-HSM - IP - Rev-1	6540.00	454.53	-47.95	1622407.97	320731.78	39°22'22.4093"N	80°50'8.5260"W	point
SHR-38P-HSM - LP - Rev-3	6540.00	217.00	57.81	1622513.72	320494.26	39°22'20.0774"N	80°50'7.1346"W	point
SHR-38 North A Lease Rev-1	7001.42	-38.24	11.73	1622467.65	320239.03	39°22'17.5483"N	80°50'7.6729"W	polygon
	2D Polygon: dimensions not calculated							
SHR-38 North B Lease Rev-1	7001.42	-38.24	11.73	1622467.65	320239.03	39°22'17.5483"N	80°50'7.6729"W	polygon
	2D Polygon: dimensions not calculated							

WELLPATH COMPOSITION - Ref Wellbore: SHR-38P-HSM AWB Ref Wellpath: SHR-38P-HSM AWP Proj: 13603'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
29.00	2510.00	SDI Keeper v1.04	01 SDI Gyro <12-1/4"> (100'-2510')	SHR-38P-HSM AWB	28/Nov/2019
2510.00	5624.00	OWSG MWD rev2 + HRGM	02 ProDirectional MWD <8-3/4"> (2510')(2609'-5624')	SHR-38P-HSM AWB	28/Nov/2019
5624.00	13603.00	BH AutoTrak Curve (2019) (Short spacing)	03 BH AT Curve <8-1/2"> (5624')(5725'-13580')	SHR-38P-HSM AWB	28/Nov/2019

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Actual Wellpath Report

SHR-38P-HSM AWP Proj: 13603'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38P-HSM
Field	Tyler	API	47-095-02651-0000
Facility	SHR-38 Pad	Wellbore	SHR-38P-HSM AWB
Slot	Slot P		

COMMENTS

Wellpath general comments

API: 47-095-02651-0000

BH Job #: 110124588-A

Rig: Patterson 563

Duration: 11/28/2019-11/30/2019

SDI Gyro <12-1/4"> (100'-2510')

ProDirectional MWD <8-3/4"> (2510')(2609'-5624')

BH AT Curve <8-1/2"> (5624')(5725'-13580')

Projected MD at TD: 13603'

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