



CNX GAS COMPANY, LLC

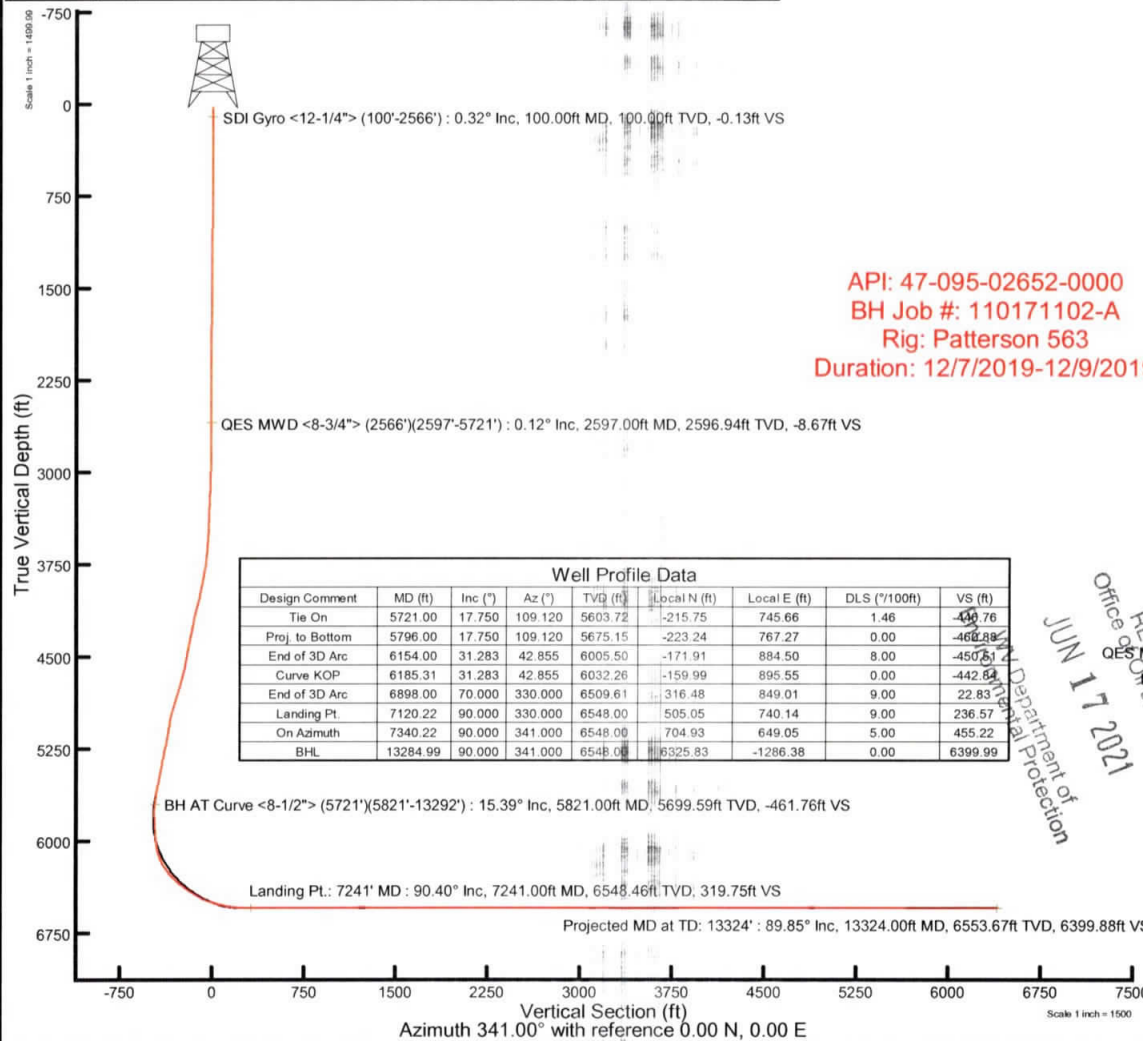
Location: Tyler County, WV
 Field: Tyler
 Facility: SHR-38 Pad

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

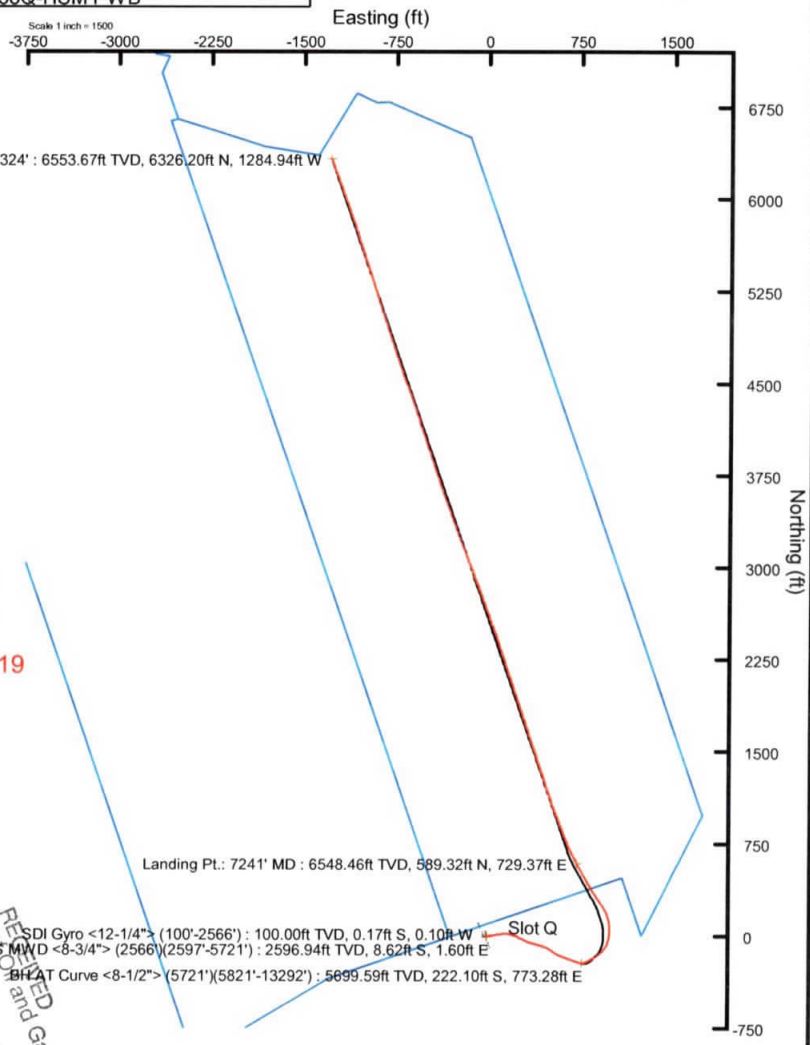


Pick reference wellpath as SHR-38Q-HSM PWB Rev-A.0	Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (E) 11.135 feet
True vertical depths are referenced to Patterson 563 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to Patterson 563 (RKB)	Scale: True distance
Patterson 563 (RKB) to Mean Sea Level: 1041.59 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot Q): -1012.59 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: adhyar on 2019-12-17; Database: WA_MPL_EASTERNUS_06b

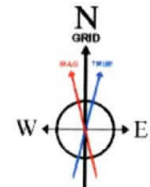
Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
SHR-38 Pad	1622485.250	320181.660	39°22'16.9839"N	80°50'7.4379"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot Q	57.37	-17.60	1622467.650	320239.030	39°22'17.5483"N	80°50'7.6729"W
Patterson 563 (RKB) to Ground level (At Slot: Slot Q)						29ft
Mean Sea Level to Ground level (At Slot: Slot Q)						-1012.59ft
Patterson 563 (RKB) to Mean Sea Level						1041.59ft



API: 47-095-02652-0000
 BH Job #: 110171102-A
 Rig: Patterson 563
 Duration: 12/7/2019-12/9/2019



Office of Coal and Gas
 JUN 17 2021
 Department of Environmental Protection



User specified (HdGM) Dip: 66.41° Field: 51829 nT
 Magnetic North is 7.63 degrees West of True North (at 07/Dec/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-38Q-HSM AWP Proj: 13324'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38Q-HSM
Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

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	17/Dec/2019 at 14:57
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	57.37	-17.60	1622467.65	320239.03	39°22'17.5483"N	80°50'7.6729"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	1041.59ft
Horizontal Reference Pt	Slot	Patterson 563 (RKB) to Mean Sea Level	1041.59ft
Vertical Reference Pt	Patterson 563 (RKB)	Patterson 563 (RKB) to Ground Level at Slot (Slot Q)	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	341.00°

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Actual Wellpath Report

SHR-38Q-HSM AWP Proj: 13324'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	CNX GAS COMPANY, LLC		Well	SHR-38Q-HSM
Field	Tyler		API	47-095-02652-0000
Facility	SHR-38 Pad		Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q			

WELLPATH DATA (217 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	0.00	210.310	0.00	0.00	0.00	0.00	1622467.65	320239.03	39°22'17.5483"N	80°50'7.6729"W	0.00	0.000	0.00	0.00	0.00	
29.00	0.000	210.310	29.00	0.00	0.00	0.00	1622467.65	320239.03	39°22'17.5483"N	80°50'7.6729"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.320	210.310	100.00	-0.13	-0.17	-0.10	1622467.55	320238.86	39°22'17.5466"N	80°50'7.6741"W	0.20	210.310	0.45	0.45	0.00	
125.00	0.500	226.910	125.00	-0.22	-0.31	-0.21	1622467.44	320238.72	39°22'17.5452"N	80°50'7.6756"W	0.37	215.091	0.86	0.72	66.40	
150.00	0.340	210.500	150.00	-0.31	-0.44	-0.33	1622467.32	320238.59	39°22'17.5438"N	80°50'7.6770"W	0.55	216.785	0.79	-0.64	-65.64	
175.00	0.310	226.120	175.00	-0.39	-0.56	-0.42	1622467.23	320238.47	39°22'17.5427"N	80°50'7.6781"W	0.70	217.020	0.37	-0.12	62.48	
200.00	0.210	231.610	200.00	-0.43	-0.63	-0.50	1622467.15	320238.40	39°22'17.5420"N	80°50'7.6792"W	0.81	218.599	0.41	-0.40	21.96	
225.00	0.200	246.820	225.00	-0.45	-0.68	-0.58	1622467.07	320238.35	39°22'17.5415"N	80°50'7.6801"W	0.89	220.591	0.22	-0.04	60.84	
250.00	0.260	239.730	250.00	-0.46	-0.72	-0.67	1622466.98	320238.31	39°22'17.5410"N	80°50'7.6813"W	0.98	222.798	0.27	0.24	-28.36	
275.00	0.200	231.280	275.00	-0.49	-0.78	-0.75	1622466.90	320238.25	39°22'17.5405"N	80°50'7.6823"W	1.08	224.014	0.28	-0.24	-33.80	
300.00	0.200	234.370	300.00	-0.52	-0.83	-0.82	1622466.83	320238.20	39°22'17.5399"N	80°50'7.6832"W	1.17	224.670	0.04	0.00	12.36	
325.00	0.290	234.100	325.00	-0.55	-0.89	-0.91	1622466.74	320238.14	39°22'17.5393"N	80°50'7.6843"W	1.27	225.467	0.36	0.36	-1.08	
350.00	0.540	227.130	350.00	-0.61	-1.01	-1.05	1622466.60	320238.02	39°22'17.5381"N	80°50'7.6860"W	1.45	225.976	1.02	1.00	-27.88	
375.00	0.630	227.960	374.99	-0.72	-1.18	-1.23	1622466.42	320237.85	39°22'17.5364"N	80°50'7.6884"W	1.71	226.215	0.36	0.36	3.32	
400.00	0.620	232.280	399.99	-0.81	-1.36	-1.44	1622466.21	320237.67	39°22'17.5346"N	80°50'7.6910"W	1.98	226.750	0.19	-0.04	17.28	
425.00	0.480	248.060	424.99	-0.86	-1.48	-1.65	1622466.00	320237.55	39°22'17.5334"N	80°50'7.6936"W	2.21	228.072	0.82	-0.56	63.12	
450.00	0.460	248.120	449.99	-0.87	-1.56	-1.84	1622465.81	320237.47	39°22'17.5326"N	80°50'7.6960"W	2.41	229.743	0.08	-0.08	0.24	
475.00	0.420	252.110	474.99	-0.88	-1.62	-2.02	1622465.63	320237.41	39°22'17.5319"N	80°50'7.6983"W	2.59	231.216	0.20	-0.16	15.96	
500.00	0.240	239.550	499.99	-0.88	-1.68	-2.15	1622465.50	320237.35	39°22'17.5314"N	80°50'7.6999"W	2.73	232.062	0.77	-0.72	-50.24	
525.00	0.190	208.120	524.99	-0.92	-1.74	-2.21	1622465.44	320237.29	39°22'17.5307"N	80°50'7.7008"W	2.82	231.859	0.50	-0.20	-125.72	
550.00	0.190	222.930	549.99	-0.97	-1.81	-2.26	1622465.39	320237.22	39°22'17.5301"N	80°50'7.7013"W	2.89	231.401	0.20	0.00	59.24	
575.00	0.210	264.060	574.99	-0.98	-1.84	-2.34	1622465.31	320237.19	39°22'17.5297"N	80°50'7.7023"W	2.97	231.760	0.57	0.08	164.52	
600.00	0.320	290.610	599.99	-0.93	-1.82	-2.45	1622465.20	320237.21	39°22'17.5299"N	80°50'7.7037"W	3.05	233.342	0.65	0.44	106.20	
625.00	0.370	300.260	624.99	-0.82	-1.76	-2.58	1622465.07	320237.27	39°22'17.5305"N	80°50'7.7054"W	3.12	235.783	0.31	0.20	38.60	
650.00	0.320	296.040	649.99	-0.71	-1.68	-2.71	1622464.94	320237.35	39°22'17.5312"N	80°50'7.7071"W	3.19	238.177	0.22	-0.20	-16.88	
675.00	0.130	303.720	674.99	-0.64	-1.64	-2.80	1622464.85	320237.39	39°22'17.5317"N	80°50'7.7082"W	3.24	239.677	0.77	-0.76	30.72	
700.00	0.120	316.980	699.99	-0.59	-1.60	-2.84	1622464.81	320237.43	39°22'17.5320"N	80°50'7.7088"W	3.26	240.573	0.12	-0.04	53.04	
725.00	0.100	255.980	724.99	-0.56	-1.59	-2.88	1622464.77	320237.44	39°22'17.5321"N	80°50'7.7093"W	3.29	241.117	0.45	-0.08	-244.00	
750.00	0.200	246.240	749.99	-0.57	-1.61	-2.94	1622464.71	320237.42	39°22'17.5319"N	80°50'7.7100"W	3.36	241.279	0.41	0.40	-38.96	
775.00	0.170	238.340	774.99	-0.58	-1.65	-3.01	1622464.64	320237.38	39°22'17.5315"N	80°50'7.7109"W	3.44	241.310	0.16	-0.12	-31.60	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38Q-HSM
Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

WELLPATH DATA (217 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	0.190	269.660	799.99	-0.57	-1.67	-3.09	1622464.56	320237.36	39°22'17.5313"N	80°50'7.7119"W	3.51	241.600	0.40	0.08	125.28	
825.00	0.180	279.160	824.99	-0.54	-1.66	-3.17	1622464.48	320237.37	39°22'17.5314"N	80°50'7.7129"W	3.58	242.296	0.13	-0.04	38.00	
850.00	0.040	203.710	849.99	-0.53	-1.66	-3.21	1622464.44	320237.37	39°22'17.5313"N	80°50'7.7134"W	3.62	242.583	0.70	-0.56	-301.80	
875.00	0.180	213.280	874.99	-0.56	-1.71	-3.23	1622464.42	320237.32	39°22'17.5309"N	80°50'7.7137"W	3.66	242.196	0.56	0.56	38.28	
900.00	0.200	208.820	899.99	-0.61	-1.78	-3.28	1622464.37	320237.25	39°22'17.5302"N	80°50'7.7143"W	3.73	241.536	0.10	0.08	-17.84	
925.00	0.350	212.540	924.99	-0.69	-1.88	-3.34	1622464.31	320237.15	39°22'17.5292"N	80°50'7.7150"W	3.83	240.629	0.60	0.60	14.88	
950.00	0.550	217.990	949.99	-0.80	-2.04	-3.45	1622464.20	320236.99	39°22'17.5276"N	80°50'7.7165"W	4.01	239.456	0.82	0.80	21.80	
975.00	0.480	205.190	974.99	-0.94	-2.23	-3.57	1622464.08	320236.80	39°22'17.5257"N	80°50'7.7179"W	4.21	238.056	0.54	-0.28	-51.20	
1000.00	0.380	200.720	999.98	-1.08	-2.40	-3.65	1622464.00	320236.63	39°22'17.5240"N	80°50'7.7189"W	4.37	236.650	0.42	-0.40	-17.88	
1025.00	0.500	226.360	1024.98	-1.19	-2.55	-3.75	1622463.90	320236.48	39°22'17.5225"N	80°50'7.7202"W	4.54	235.790	0.91	0.48	102.56	
1050.00	0.440	223.360	1049.98	-1.28	-2.70	-3.90	1622463.75	320236.33	39°22'17.5210"N	80°50'7.7220"W	4.74	235.324	0.26	-0.24	-12.00	
1075.00	0.470	205.640	1074.98	-1.40	-2.86	-4.01	1622463.64	320236.17	39°22'17.5194"N	80°50'7.7234"W	4.93	234.502	0.57	0.12	-70.88	
1100.00	0.330	221.980	1099.98	-1.51	-3.01	-4.10	1622463.55	320236.02	39°22'17.5179"N	80°50'7.7245"W	5.09	233.769	0.72	-0.56	65.36	
1125.00	0.220	237.020	1124.98	-1.55	-3.09	-4.19	1622463.46	320235.94	39°22'17.5171"N	80°50'7.7257"W	5.20	233.637	0.52	-0.44	60.16	
1150.00	0.370	219.810	1149.98	-1.61	-3.17	-4.28	1622463.37	320235.86	39°22'17.5163"N	80°50'7.7268"W	5.33	233.460	0.69	0.60	-68.84	
1175.00	0.370	211.070	1174.98	-1.70	-3.30	-4.38	1622463.27	320235.73	39°22'17.5150"N	80°50'7.7280"W	5.48	232.939	0.23	0.00	-34.96	
1200.00	0.410	203.100	1199.98	-1.82	-3.46	-4.45	1622463.20	320235.57	39°22'17.5134"N	80°50'7.7289"W	5.64	232.181	0.27	0.16	-31.88	
1225.00	0.320	192.150	1224.98	-1.94	-3.61	-4.50	1622463.15	320235.42	39°22'17.5120"N	80°50'7.7295"W	5.77	231.304	0.45	-0.36	-43.80	
1250.00	0.370	181.110	1249.98	-2.08	-3.76	-4.52	1622463.13	320235.27	39°22'17.5105"N	80°50'7.7297"W	5.88	230.269	0.33	0.20	-44.16	
1275.00	0.440	178.320	1274.98	-2.25	-3.93	-4.52	1622463.13	320235.10	39°22'17.5087"N	80°50'7.7297"W	5.99	228.962	0.29	0.28	-11.16	
1300.00	0.410	171.870	1299.98	-2.43	-4.12	-4.50	1622463.15	320234.91	39°22'17.5069"N	80°50'7.7294"W	6.10	227.559	0.23	-0.12	-25.80	
1325.00	0.390	186.990	1324.98	-2.59	-4.29	-4.50	1622463.15	320234.74	39°22'17.5052"N	80°50'7.7294"W	6.22	226.368	0.43	-0.08	60.48	
1350.00	0.390	182.150	1349.98	-2.75	-4.46	-4.51	1622463.14	320234.57	39°22'17.5035"N	80°50'7.7295"W	6.34	225.345	0.13	0.00	-19.36	
1375.00	0.420	173.920	1374.98	-2.92	-4.64	-4.51	1622463.14	320234.39	39°22'17.5018"N	80°50'7.7294"W	6.47	224.194	0.26	0.12	-32.92	
1400.00	0.410	174.440	1399.98	-3.09	-4.82	-4.49	1622463.16	320234.21	39°22'17.5000"N	80°50'7.7291"W	6.58	222.986	0.04	-0.04	2.08	
1425.00	0.360	192.320	1424.97	-3.25	-4.98	-4.50	1622463.15	320234.05	39°22'17.4984"N	80°50'7.7292"W	6.71	222.072	0.52	-0.20	71.52	
1450.00	0.390	191.380	1449.97	-3.39	-5.14	-4.53	1622463.12	320233.89	39°22'17.4968"N	80°50'7.7296"W	6.85	221.383	0.12	0.12	-3.76	
1475.00	0.680	215.520	1474.97	-3.55	-5.35	-4.63	1622463.02	320233.68	39°22'17.4947"N	80°50'7.7309"W	7.07	220.915	1.44	1.16	96.56	
1500.00	0.730	205.050	1499.97	-3.75	-5.61	-4.79	1622462.86	320233.42	39°22'17.4921"N	80°50'7.7328"W	7.38	220.469	0.55	0.20	-41.88	
1525.00	0.730	192.170	1524.97	-4.00	-5.91	-4.89	1622462.76	320233.12	39°22'17.4891"N	80°50'7.7340"W	7.67	219.588	0.66	0.00	-51.52	

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Actual Wellpath Report

SHR-38Q-HSM AWP Proj: 13324'

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Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

WELLPATH DATA (217 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]	
1550.00	0.540	184.710	1549.97	-4.24	-6.18	-4.93	1622462.72	320232.85	39°22'17.4864"N	80°50'7.7345"W	7.91	218.569	0.83	-0.76	-29.84	
1575.00	0.400	150.710	1574.97	-4.44	-6.38	-4.90	1622462.75	320232.65	39°22'17.4845"N	80°50'7.7340"W	8.04	217.525	1.22	-0.56	-136.00	
1600.00	0.420	130.230	1599.97	-4.60	-6.51	-4.79	1622462.86	320232.52	39°22'17.4832"N	80°50'7.7326"W	8.08	216.308	0.59	0.08	-81.92	
1625.00	0.420	110.970	1624.97	-4.74	-6.60	-4.63	1622463.02	320232.43	39°22'17.4823"N	80°50'7.7306"W	8.07	215.030	0.56	0.00	-77.04	
1650.00	0.480	128.720	1649.96	-4.88	-6.70	-4.46	1622463.19	320232.33	39°22'17.4814"N	80°50'7.7284"W	8.05	213.654	0.60	0.24	71.00	
1675.00	0.550	145.190	1674.96	-5.09	-6.87	-4.31	1622463.34	320232.16	39°22'17.4798"N	80°50'7.7265"W	8.11	212.128	0.65	0.28	65.88	
1700.00	0.570	129.080	1699.96	-5.31	-7.04	-4.15	1622463.50	320231.99	39°22'17.4780"N	80°50'7.7244"W	8.17	210.489	0.63	0.08	-64.44	
1725.00	0.540	120.240	1724.96	-5.50	-7.18	-3.95	1622463.70	320231.85	39°22'17.4767"N	80°50'7.7218"W	8.20	208.806	0.36	-0.12	-35.36	
1750.00	0.680	109.610	1749.96	-5.69	-7.29	-3.71	1622463.94	320231.74	39°22'17.4757"N	80°50'7.7187"W	8.18	206.955	0.72	0.56	-42.52	
1775.00	0.660	105.800	1774.96	-5.86	-7.38	-3.43	1622464.22	320231.65	39°22'17.4748"N	80°50'7.7151"W	8.14	204.923	0.20	-0.08	-15.24	
1800.00	0.630	111.190	1799.96	-6.03	-7.47	-3.16	1622464.49	320231.56	39°22'17.4740"N	80°50'7.7117"W	8.11	202.950	0.27	-0.12	21.56	
1825.00	0.570	121.100	1824.96	-6.22	-7.58	-2.93	1622464.72	320231.45	39°22'17.4729"N	80°50'7.7087"W	8.13	201.113	0.48	-0.24	39.64	
1850.00	0.620	113.800	1849.95	-6.40	-7.70	-2.70	1622464.95	320231.33	39°22'17.4718"N	80°50'7.7058"W	8.16	199.305	0.36	0.20	-29.20	
1875.00	0.530	113.040	1874.95	-6.57	-7.80	-2.47	1622465.18	320231.23	39°22'17.4708"N	80°50'7.7028"W	8.18	197.552	0.36	-0.36	-3.04	
1900.00	0.560	121.210	1899.95	-6.74	-7.91	-2.26	1622465.39	320231.12	39°22'17.4698"N	80°50'7.7001"W	8.23	195.923	0.33	0.12	32.68	
1925.00	0.590	119.430	1924.95	-6.93	-8.04	-2.04	1622465.61	320230.99	39°22'17.4685"N	80°50'7.6973"W	8.29	194.244	0.14	0.12	-7.12	
1950.00	0.600	112.200	1949.95	-7.12	-8.15	-1.81	1622465.84	320230.88	39°22'17.4675"N	80°50'7.6943"W	8.35	192.501	0.30	0.04	-28.92	
1975.00	0.480	115.950	1974.95	-7.28	-8.24	-1.59	1622466.06	320230.79	39°22'17.4666"N	80°50'7.6916"W	8.40	190.925	0.50	-0.48	15.00	
2000.00	0.260	148.200	1999.95	-7.41	-8.34	-1.47	1622466.18	320230.69	39°22'17.4656"N	80°50'7.6900"W	8.47	189.980	1.18	-0.88	129.00	
2025.00	0.390	111.250	2024.95	-7.52	-8.42	-1.36	1622466.29	320230.61	39°22'17.4649"N	80°50'7.6886"W	8.53	189.165	0.96	0.52	-147.80	
2050.00	0.470	101.440	2049.95	-7.62	-8.47	-1.18	1622466.47	320230.56	39°22'17.4644"N	80°50'7.6863"W	8.55	187.921	0.43	0.32	-39.24	
2075.00	0.710	89.080	2074.95	-7.72	-8.49	-0.92	1622466.73	320230.54	39°22'17.4643"N	80°50'7.6830"W	8.54	186.207	1.08	0.96	-49.44	
2100.00	0.520	85.160	2099.94	-7.80	-8.47	-0.65	1622467.00	320230.56	39°22'17.4644"N	80°50'7.6796"W	8.50	184.420	0.78	-0.76	-15.68	
2125.00	0.380	76.810	2124.94	-7.84	-8.45	-0.46	1622467.19	320230.58	39°22'17.4647"N	80°50'7.6772"W	8.46	183.126	0.62	-0.56	-33.40	
2150.00	0.410	104.730	2149.94	-7.89	-8.45	-0.29	1622467.36	320230.58	39°22'17.4647"N	80°50'7.6750"W	8.45	181.993	0.77	0.12	111.68	
2175.00	0.510	105.640	2174.94	-8.01	-8.50	-0.10	1622467.55	320230.53	39°22'17.4642"N	80°50'7.6726"W	8.50	180.676	0.40	0.40	3.64	
2200.00	0.560	86.530	2199.94	-8.10	-8.52	0.13	1622467.78	320230.51	39°22'17.4640"N	80°50'7.6696"W	8.53	179.135	0.74	0.20	-76.44	
2225.00	0.510	82.450	2224.94	-8.16	-8.50	0.36	1622468.01	320230.53	39°22'17.4643"N	80°50'7.6667"W	8.51	177.569	0.25	-0.20	-16.32	
2250.00	0.420	85.010	2249.94	-8.20	-8.48	0.56	1622468.21	320230.55	39°22'17.4645"N	80°50'7.6641"W	8.50	176.205	0.37	-0.36	10.24	
2275.00	0.330	86.570	2274.94	-8.24	-8.47	0.73	1622468.38	320230.56	39°22'17.4647"N	80°50'7.6620"W	8.50	175.102	0.36	-0.36	6.24	

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38Q-HSM
Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

WELLPATH DATA (217 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	0.280	86.800	2299.94	-8.28	-8.46	0.86	1622468.51	320230.57	39°22'17.4648"N	80°50'7.6604"W	8.50	174.205	0.20	-0.20	0.92	
2325.00	0.330	82.610	2324.94	-8.31	-8.45	0.99	1622468.64	320230.58	39°22'17.4649"N	80°50'7.6587"W	8.51	173.309	0.22	0.20	-16.76	
2350.00	0.230	88.760	2349.94	-8.34	-8.44	1.11	1622468.76	320230.59	39°22'17.4650"N	80°50'7.6571"W	8.51	172.488	0.42	-0.40	24.60	
2375.00	0.100	78.600	2374.94	-8.36	-8.43	1.18	1622468.83	320230.60	39°22'17.4651"N	80°50'7.6562"W	8.51	172.006	0.53	-0.52	-40.64	
2400.00	0.070	96.300	2399.94	-8.37	-8.43	1.22	1622468.87	320230.60	39°22'17.4651"N	80°50'7.6557"W	8.52	171.760	0.16	-0.12	70.80	
2425.00	0.060	137.130	2424.94	-8.39	-8.44	1.24	1622468.89	320230.59	39°22'17.4650"N	80°50'7.6554"W	8.53	171.611	0.19	-0.04	163.32	
2450.00	0.090	112.880	2449.94	-8.41	-8.46	1.27	1622468.92	320230.57	39°22'17.4649"N	80°50'7.6551"W	8.55	171.449	0.17	0.12	-97.00	
2475.00	0.130	88.880	2474.94	-8.43	-8.46	1.32	1622468.97	320230.57	39°22'17.4648"N	80°50'7.6545"W	8.57	171.149	0.24	0.16	-96.00	
2500.00	0.100	108.130	2499.94	-8.45	-8.47	1.37	1622469.02	320230.56	39°22'17.4647"N	80°50'7.6539"W	8.58	170.831	0.19	-0.12	77.00	
2525.00	0.130	144.740	2524.94	-8.50	-8.50	1.40	1622469.05	320230.53	39°22'17.4645"N	80°50'7.6534"W	8.62	170.619	0.31	0.12	146.44	
2550.00	0.390	114.070	2549.94	-8.58	-8.56	1.50	1622469.15	320230.47	39°22'17.4639"N	80°50'7.6522"W	8.69	170.070	1.14	1.04	-122.68	
2566.00	0.080	147.330	2565.94	-8.63	-8.59	1.55	1622469.20	320230.44	39°22'17.4636"N	80°50'7.6515"W	8.73	169.745	2.04	-1.94	207.87	
2597.00	0.120	114.090	2596.94	-8.67	-8.62	1.60	1622469.25	320230.41	39°22'17.4633"N	80°50'7.6509"W	8.77	169.516	0.22	0.13	-107.23	
2689.00	0.190	140.460	2688.94	-8.88	-8.78	1.78	1622469.43	320230.25	39°22'17.4618"N	80°50'7.6486"W	8.96	168.535	0.11	0.08	28.66	
2784.00	2.510	78.250	2783.90	-9.29	-8.48	3.92	1622471.57	320230.55	39°22'17.4651"N	80°50'7.6214"W	9.34	155.195	2.55	2.44	-65.48	
2878.00	4.250	75.150	2877.74	-9.80	-7.16	9.30	1622476.95	320231.87	39°22'17.4788"N	80°50'7.5531"W	11.74	127.610	1.86	1.85	-3.30	
2972.00	6.380	77.520	2971.33	-10.65	-5.14	17.77	1622485.42	320233.89	39°22'17.5000"N	80°50'7.4457"W	18.50	106.145	2.28	2.27	2.52	
3067.00	9.220	80.740	3065.44	-12.53	-2.78	30.43	1622498.08	320236.25	39°22'17.5253"N	80°50'7.2849"W	30.56	95.214	3.02	2.99	3.39	
3162.00	11.970	82.430	3158.81	-15.78	-0.25	47.72	1622515.36	320238.78	39°22'17.5528"N	80°50'7.0653"W	47.72	90.306	2.91	2.89	1.78	
3256.00	13.990	80.840	3250.40	-19.65	2.84	68.60	1622536.24	320241.87	39°22'17.5864"N	80°50'6.8000"W	68.66	87.630	2.18	2.15	-1.69	
3351.00	14.310	80.320	3342.52	-23.51	6.64	91.51	1622559.15	320245.67	39°22'17.6273"N	80°50'6.5091"W	91.75	85.849	0.36	0.34	-0.55	
3446.00	13.450	81.820	3434.75	-27.49	10.19	114.02	1622581.66	320249.22	39°22'17.6657"N	80°50'6.2231"W	114.47	84.894	0.98	-0.91	1.58	
3540.00	12.960	87.430	3526.27	-32.52	12.22	135.37	1622603.01	320251.24	39°22'17.6889"N	80°50'5.9517"W	135.92	84.844	1.46	-0.52	5.97	
3634.00	13.070	86.840	3617.85	-38.40	13.27	156.51	1622624.15	320252.30	39°22'17.7024"N	80°50'5.6827"W	157.07	85.152	0.18	0.12	-0.63	
3729.00	13.910	95.970	3710.24	-46.16	12.68	178.60	1622646.24	320251.71	39°22'17.6998"N	80°50'5.4014"W	179.05	85.939	2.41	0.88	9.61	
3824.00	15.680	105.520	3802.10	-58.26	8.05	202.33	1622669.97	320247.08	39°22'17.6576"N	80°50'5.0984"W	202.49	87.720	3.17	1.86	10.05	
3918.00	16.830	109.780	3892.34	-73.98	0.05	227.38	1622695.01	320239.08	39°22'17.5821"N	80°50'4.7780"W	227.38	89.987	1.76	1.22	4.53	
4013.00	18.220	114.860	3982.94	-92.89	-10.85	253.80	1622721.43	320228.18	39°22'17.4783"N	80°50'4.4395"W	254.03	92.448	2.17	1.46	5.35	
4108.00	18.160	118.640	4073.19	-114.12	-24.19	280.27	1622747.90	320214.84	39°22'17.3504"N	80°50'4.1000"W	281.31	94.933	1.24	-0.06	3.98	
4202.00	17.890	118.460	4162.58	-135.58	38.09	305.81	1622773.45	320200.94	39°22'17.2167"N	80°50'3.7721"W	308.18	97.100	0.29	-0.29	-0.19	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38Q-HSM
Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

WELLPATH DATA (217 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]
4297.00	17.880	111.440	4253.00	-155.79	-50.38	332.22	1622799.85	320188.66	39°22'17.0992"N	80°50'3.4336"W	336.02	98.622	2.27	-0.01	-7.39
4395.00	18.340	105.430	4346.15	-174.27	-59.98	361.09	1622828.72	320179.05	39°22'17.0085"N	80°50'3.0642"W	366.04	99.431	1.96	0.47	-6.13
4490.00	18.490	104.410	4436.29	-191.01	-67.70	390.09	1622857.72	320171.33	39°22'16.9365"N	80°50'2.6935"W	395.92	99.846	0.37	0.16	-1.07
4584.00	19.620	103.630	4525.14	-207.73	-75.13	419.86	1622887.49	320163.90	39°22'16.8674"N	80°50'2.3130"W	426.53	100.145	1.23	1.20	-0.83
4679.00	21.690	108.430	4614.03	-227.01	-84.44	452.02	1622919.65	320154.59	39°22'16.7801"N	80°50'1.9018"W	459.84	100.581	2.81	2.18	5.05
4774.00	21.840	115.080	4702.27	-249.97	-97.48	484.69	1622952.31	320141.55	39°22'16.6560"N	80°50'1.4835"W	494.39	101.372	2.60	0.16	7.00
4868.00	20.600	121.690	4789.91	-274.94	-113.59	514.60	1622982.22	320125.45	39°22'16.5013"N	80°50'1.0996"W	526.99	102.447	2.86	-1.32	7.03
4963.00	20.580	126.720	4878.85	-301.66	-132.35	542.21	1623009.83	320106.69	39°22'16.3199"N	80°50'0.7445"W	558.13	103.717	1.86	-0.02	5.29
5058.00	17.860	120.350	4968.56	-326.52	-149.70	568.17	1623035.79	320089.34	39°22'16.1523"N	80°50'0.4107"W	587.56	104.761	3.61	-2.86	-6.71
5153.00	14.950	111.460	5059.69	-345.53	-161.55	592.15	1623059.77	320077.49	39°22'16.0387"N	80°50'0.1031"W	613.79	105.260	4.04	-3.06	-9.36
5247.00	14.250	108.120	5150.66	-360.38	-169.58	614.43	1623082.05	320069.46	39°22'15.9626"N	80°49'59.8179"W	637.41	105.429	1.16	-0.74	-3.55
5342.00	17.400	111.710	5242.05	-376.71	-178.48	638.75	1623106.37	320060.56	39°22'15.8782"N	80°49'59.5066"W	663.22	105.611	3.47	3.32	3.78
5437.00	18.120	110.890	5332.52	-395.45	-189.00	665.75	1623133.37	320050.04	39°22'15.7782"N	80°49'59.1609"W	692.06	105.849	0.80	0.76	-0.86
5531.00	17.460	107.600	5422.03	-413.23	-198.47	692.85	1623160.46	320040.57	39°22'15.6885"N	80°49'58.8141"W	720.72	105.985	1.28	-0.70	-3.50
5626.00	16.410	107.850	5512.91	-429.78	-206.90	719.21	1623186.82	320032.14	39°22'15.6092"N	80°49'58.4769"W	748.38	106.049	1.11	-1.11	0.26
5721.00	17.750	109.120	5603.72	-446.76	-215.75	745.66	1623213.28	320023.29	39°22'15.5255"N	80°49'58.1384"W	776.25	106.138	1.46	1.41	1.34
5821.00	15.390	95.840	5699.59	-461.76	-222.10	773.28	1623240.89	320016.94	39°22'15.4668"N	80°49'57.7856"W	804.54	106.025	4.45	-2.36	-13.28
5917.00	18.650	68.040	5791.52	-466.32	-217.65	800.24	1623267.85	320021.39	39°22'15.5148"N	80°49'57.4432"W	829.31	105.215	9.03	3.40	-28.96
6012.00	22.160	60.770	5880.56	-462.35	-203.21	829.98	1623297.59	320035.83	39°22'15.6618"N	80°49'57.0673"W	854.49	103.758	4.55	3.69	-7.65
6107.00	27.050	62.140	5966.91	-455.84	-184.36	864.73	1623332.34	320054.68	39°22'15.8533"N	80°49'56.6283"W	884.17	102.035	5.18	5.15	1.44
6201.00	31.560	56.180	6048.88	-446.25	-160.66	904.09	1623371.70	320078.38	39°22'16.0932"N	80°49'56.1317"W	918.26	100.076	5.71	4.80	-6.34
6296.00	36.270	44.320	6127.78	-427.24	-126.66	944.45	1623412.05	320112.38	39°22'16.4351"N	80°49'55.6243"W	952.90	97.638	8.53	4.96	-12.48
6390.00	38.770	23.280	6202.64	-392.83	-79.53	975.64	1623443.24	320159.50	39°22'16.9055"N	80°49'55.2361"W	978.88	94.660	13.84	2.66	-22.38
6485.00	43.810	9.450	6274.15	-341.78	-19.61	992.84	1623460.44	320219.42	39°22'17.5002"N	80°49'55.0284"W	993.04	91.131	10.95	5.31	-14.56
6580.00	51.180	0.790	6338.36	-277.89	50.00	998.77	1623466.37	320289.03	39°22'18.1890"N	80°49'54.9661"W	1000.02	87.134	10.25	7.76	-9.12
6675.00	54.970	346.730	6395.60	-204.10	125.13	990.32	1623457.92	320364.16	39°22'18.9302"N	80°49'55.0878"W	998.19	82.799	12.47	3.99	-14.80
6769.00	59.740	332.390	6446.48	-125.33	198.88	962.59	1623430.15	320437.90	39°22'19.6549"N	80°49'55.4553"W	982.88	78.326	13.79	5.07	-15.26
6864.00	68.790	325.970	6487.73	-41.75	272.15	918.63	1623386.23	320511.16	39°22'20.3726"N	80°49'56.0284"W	958.09	73.498	11.30	9.53	-6.76
6958.00	75.440	325.310	6516.58	44.46	345.95	888.16	1623335.76	320584.96	39°22'21.0945"N	80°49'56.6849"W	934.55	68.273	7.11	7.07	-0.70
7053.00	81.160	329.900	6535.85	134.90	424.46	818.39	1623286.00	320663.47	39°22'21.8631"N	80°49'57.3334"W	921.91	62.586	7.66	6.02	4.83

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Slot	Slot Q		

WELLPATH DATA (217 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]	
7147.00	86.520	332.570	6545.93	226.96	506.36	773.44	1623241.05	320745.36	39°22'22.6658"N	80°49'57.9211"W	924.45	56.788	6.36	5.70	2.84	
7241.00	90.400	331.470	6548.46	319.75	589.32	729.37	1623196.98	320828.32	39°22'23.4793"N	80°49'58.4980"W	937.70	51.062	4.29	4.13	-1.17	
7335.00	90.340	333.560	6547.85	412.72	672.70	685.99	1623153.60	320911.70	39°22'24.2969"N	80°49'59.0660"W	960.79	45.560	2.22	-0.06	2.22	
7429.00	89.970	337.320	6547.59	506.26	758.18	646.92	1623114.54	320997.17	39°22'25.1360"N	80°49'59.5795"W	996.67	40.473	4.02	-0.39	4.00	
7524.00	90.180	339.580	6547.47	601.16	846.54	612.03	1623079.65	321085.52	39°22'26.0040"N	80°50'0.0405"W	1044.61	35.866	2.39	0.22	2.38	
7618.00	89.290	337.440	6547.90	695.06	934.00	577.60	1623045.22	321172.98	39°22'26.8633"N	80°50'0.4955"W	1098.17	31.733	2.47	-0.95	-2.28	
7713.00	90.890	340.960	6547.76	790.00	1022.79	543.87	1623011.49	321261.76	39°22'27.7358"N	80°50'0.9417"W	1158.40	28.002	4.07	1.68	3.71	
7807.00	90.090	339.630	6546.95	883.98	1111.28	512.18	1622979.80	321350.25	39°22'28.6056"N	80°50'1.3619"W	1223.63	24.745	1.65	-0.85	-1.41	
7902.00	91.020	341.700	6546.03	978.97	1200.91	480.73	1622948.35	321439.88	39°22'29.4868"N	80°50'1.7793"W	1293.55	21.816	2.39	0.98	2.18	
7996.00	89.600	341.960	6545.52	1072.96	1290.22	451.42	1622919.04	321529.18	39°22'30.3651"N	80°50'2.1694"W	1366.91	19.284	1.54	-1.51	0.28	
8091.00	91.450	342.010	6544.65	1167.94	1380.55	422.04	1622889.67	321619.51	39°22'31.2535"N	80°50'2.5606"W	1443.62	16.999	1.95	1.95	0.05	
8186.00	88.950	341.290	6544.32	1262.92	1470.71	392.13	1622859.76	321709.67	39°22'32.1402"N	80°50'2.9584"W	1522.09	14.929	2.74	-2.63	-0.76	
8281.00	89.600	341.090	6545.52	1357.91	1560.63	361.50	1622829.14	321799.58	39°22'33.0243"N	80°50'3.3654"W	1601.95	13.042	0.72	0.68	-0.21	
8374.00	89.850	341.810	6545.97	1450.91	1648.80	331.92	1622799.55	321887.74	39°22'33.8912"N	80°50'3.7587"W	1681.88	11.382	0.82	0.27	0.77	
8468.00	89.910	342.050	6546.17	1544.89	1738.16	302.76	1622770.40	321977.10	39°22'34.7701"N	80°50'4.1469"W	1764.33	9.881	0.26	0.06	0.26	
8563.00	90.650	341.090	6545.70	1639.89	1828.29	272.73	1622740.37	322067.22	39°22'35.6563"N	80°50'4.5463"W	1848.52	8.484	1.28	0.78	-1.01	
8658.00	89.850	341.680	6545.29	1734.88	1918.32	242.41	1622710.04	322157.25	39°22'36.5416"N	80°50'4.9495"W	1933.57	7.202	1.05	-0.84	0.62	
8753.00	89.820	341.450	6545.56	1829.88	2008.44	212.36	1622680.00	322247.37	39°22'37.4278"N	80°50'5.3491"W	2019.64	6.036	0.24	-0.03	-0.24	
8848.00	89.820	341.690	6545.86	1924.87	2098.57	182.33	1622649.97	322337.49	39°22'38.3141"N	80°50'5.7485"W	2106.47	4.966	0.25	0.00	0.25	
8942.00	89.690	341.070	6546.26	2018.87	2187.64	152.32	1622619.96	322426.56	39°22'39.1900"N	80°50'6.1475"W	2192.94	3.983	0.67	-0.14	-0.66	
9036.00	89.630	342.160	6546.82	2112.86	2276.84	122.67	1622590.31	322515.76	39°22'40.0672"N	80°50'6.5419"W	2280.15	3.084	1.16	-0.06	1.16	
9131.00	89.720	341.660	6547.36	2207.85	2367.15	93.17	1622560.82	322606.05	39°22'40.9552"N	80°50'6.9346"W	2368.98	2.254	0.53	0.09	-0.53	
9225.00	89.850	340.660	6547.71	2301.84	2456.11	62.82	1622530.46	322695.01	39°22'41.8299"N	80°50'7.3379"W	2456.91	1.465	1.07	0.14	-1.06	
9319.00	89.600	339.380	6548.16	2395.83	2544.45	30.70	1622498.35	322783.35	39°22'42.6982"N	80°50'7.7636"W	2544.63	0.691	1.39	-0.27	-1.36	
9414.00	89.850	340.150	6548.62	2490.80	2633.58	-2.16	1622465.49	322872.48	39°22'43.5743"N	80°50'8.1989"W	2633.58	359.953	0.85	0.26	0.81	
9508.00	89.820	339.890	6548.89	2584.79	2721.92	-34.28	1622433.38	322960.81	39°22'44.4426"N	80°50'8.6246"W	2722.14	359.279	0.28	-0.03	-0.28	
9603.00	90.150	339.730	6548.91	2679.77	2811.09	-67.06	1622400.59	323049.97	39°22'45.3189"N	80°50'9.0590"W	2811.89	358.633	0.39	0.35	-0.17	
9697.00	90.150	339.170	6548.67	2773.73	2899.11	-100.06	1622367.60	323137.99	39°22'46.1839"N	80°50'9.4958"W	2900.83	358.023	0.60	0.00	-0.60	
9791.00	89.970	339.310	6548.57	2867.69	2987.00	-133.38	1622334.28	323225.88	39°22'47.0477"N	80°50'9.9367"W	2989.98	357.443	0.24	-0.19	0.15	
9886.00	89.850	339.590	6548.72	2962.65	3075.96	-166.73	1622300.93	323314.83	39°22'47.9219"N	80°50'10.3782"W	3080.47	356.897	0.32	-0.13	0.29	

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Actual Wellpath Report

SHR-38Q-HSM AWP Proj: 13324'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38Q-HSM
Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

WELLPATH DATA (217 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]
9980.00	89.720	337.350	6549.07	3056.56	3163.39	-201.22	1622266.44	323402.26	39°22'48.7809"N	80°50'10.8340"W	3169.78	356.360	2.39	-0.14	-2.38
10075.00	90.310	340.380	6549.05	3151.48	3251.99	-235.47	1622232.19	323490.85	39°22'49.6514"N	80°50'11.2869"W	3260.50	355.859	3.25	0.62	3.19
10170.00	89.510	340.210	6549.20	3246.47	3341.43	-267.50	1622200.16	323580.28	39°22'50.5305"N	80°50'11.7117"W	3352.12	355.423	0.86	-0.84	-0.18
10264.00	90.000	339.710	6549.60	3340.45	3429.73	-299.71	1622167.95	323668.59	39°22'51.3985"N	80°50'12.1386"W	3442.80	355.006	0.74	0.52	-0.53
10359.00	89.780	339.390	6549.78	3435.42	3518.75	-332.90	1622134.76	323757.60	39°22'52.2733"N	80°50'12.5781"W	3534.46	354.595	0.41	-0.23	-0.34
10454.00	90.150	339.990	6549.84	3530.40	3607.84	-365.88	1622101.79	323846.68	39°22'53.1489"N	80°50'13.0149"W	3626.34	354.209	0.74	0.39	0.63
10548.00	90.120	343.130	6549.62	3624.38	3697.00	-395.61	1622072.06	323935.84	39°22'54.0257"N	80°50'13.4103"W	3718.11	353.892	3.34	-0.03	3.34
10643.00	90.060	340.820	6549.47	3719.36	3787.33	-425.00	1622042.67	324026.17	39°22'54.9140"N	80°50'13.8018"W	3811.10	353.597	2.43	-0.06	-2.43
10738.00	90.370	341.560	6549.11	3814.36	3877.26	-455.63	1622012.04	324116.09	39°22'55.7982"N	80°50'14.2088"W	3903.94	353.298	0.84	0.33	0.78
10832.00	90.400	341.280	6548.48	3908.35	3966.36	-485.58	1621982.09	324205.18	39°22'56.6743"N	80°50'14.6071"W	3995.97	353.020	0.30	0.03	-0.30
10927.00	90.310	341.340	6547.89	4003.35	4056.35	-516.02	1621951.65	324295.17	39°22'57.5591"N	80°50'15.0118"W	4089.04	352.750	0.11	-0.09	0.06
11021.00	90.620	341.680	6547.13	4097.34	4145.49	-545.83	1621921.84	324384.31	39°22'58.4357"N	80°50'15.4083"W	4181.27	352.499	0.49	0.33	0.36
11116.00	90.550	342.560	6546.16	4192.32	4235.90	-575.00	1621892.68	324474.71	39°22'59.3249"N	80°50'15.7969"W	4274.74	352.270	0.93	-0.07	0.93
11211.00	89.540	341.440	6546.08	4287.30	4326.24	-604.36	1621863.33	324565.05	39°23'0.2134"N	80°50'16.1878"W	4368.25	352.048	1.59	-1.06	-1.18
11305.00	90.680	340.100	6545.90	4381.30	4414.99	-635.31	1621832.37	324653.80	39°23'1.0859"N	80°50'16.5989"W	4460.47	351.811	1.87	1.21	-1.43
11400.00	89.420	338.150	6545.82	4476.24	4503.75	-669.16	1621798.52	324742.55	39°23'1.9581"N	80°50'17.0468"W	4553.19	351.549	2.44	-1.33	-2.05
11495.00	90.710	341.870	6545.71	4571.21	4593.01	-701.63	1621766.05	324831.81	39°23'2.8354"N	80°50'17.4772"W	4646.29	351.315	4.14	1.36	3.92
11589.00	89.380	341.380	6545.64	4665.20	4682.22	-731.27	1621736.42	324921.01	39°23'3.7126"N	80°50'17.8714"W	4738.98	351.123	1.51	-1.41	-0.52
11684.00	91.050	341.310	6545.28	4760.19	4772.22	-761.65	1621706.04	325011.01	39°23'4.5976"N	80°50'18.2754"W	4832.62	350.932	1.76	1.76	-0.07
11779.00	90.250	341.880	6544.20	4855.18	4862.36	-791.64	1621676.05	325101.14	39°23'5.4840"N	80°50'18.6745"W	4926.38	350.753	1.03	-0.84	0.60
11873.00	89.720	341.750	6544.23	4949.17	4951.66	-820.98	1621646.71	325190.44	39°23'6.3622"N	80°50'19.0650"W	5019.26	350.586	0.58	-0.56	-0.14
11968.00	89.970	341.810	6544.48	5044.16	5041.90	-850.68	1621617.01	325280.67	39°23'7.2496"N	80°50'19.4604"W	5113.16	350.423	0.27	0.26	0.06
12063.00	89.540	342.280	6544.89	5139.15	5132.27	-879.97	1621587.73	325371.03	39°23'8.1384"N	80°50'19.8505"W	5207.16	350.271	0.67	-0.45	0.49
12157.00	89.540	343.060	6545.65	5233.10	5222.00	-907.97	1621559.73	325460.76	39°23'9.0210"N	80°50'20.2241"W	5300.35	350.136	0.83	0.00	0.83
12252.00	89.020	341.890	6546.84	5328.06	5312.58	-936.57	1621531.13	325551.34	39°23'9.9119"N	80°50'20.6055"W	5394.50	350.002	1.35	-0.55	-1.23
12347.00	90.280	341.450	6547.42	5423.05	5402.76	-966.45	1621501.25	325641.51	39°23'10.7987"N	80°50'21.0031"W	5488.51	349.858	1.40	1.33	-0.46
12441.00	89.720	342.200	6547.42	5517.04	5492.06	-995.77	1621471.94	325730.81	39°23'11.6770"N	80°50'21.3934"W	5581.61	349.723	1.00	-0.60	0.80
12536.00	89.110	341.760	6548.39	5612.02	5582.40	-1025.15	1621442.55	325821.14	39°23'12.5654"N	80°50'21.7848"W	5675.75	349.594	0.79	-0.64	-0.46
12630.00	89.320	342.210	6549.68	5706.00	5671.78	-1054.22	1621413.48	325910.52	39°23'13.4444"N	80°50'22.1719"W	5768.93	349.471	0.53	0.22	0.48
12725.00	89.820	342.290	6550.39	5800.97	5762.26	-1083.18	1621384.52	326000.99	39°23'14.3343"N	80°50'22.5579"W	5863.18	349.354	0.53	0.53	0.08

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Actual Wellpath Report

SHR-38Q-HSM AWP Proj: 13324'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38Q-HSM
Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

WELLPATH DATA (217 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]	
12819.00	90.000	340.830	6550.54	5894.96	5851.43	-1112.91	1621354.79	326090.16	39°23'15.2111"N	80°50'22.9535"W	5956.32	349.231	1.56	0.19	-1.55	
12914.00	89.820	340.550	6550.69	5989.96	5941.08	-1144.33	1621323.38	326179.81	39°23'16.0925"N	80°50'23.3706"W	6050.29	349.098	0.35	-0.19	-0.29	
13008.00	89.480	339.950	6551.26	6083.95	6029.55	-1176.09	1621291.62	326268.27	39°23'16.9621"N	80°50'23.7919"W	6143.18	348.963	0.73	-0.36	-0.64	
13103.00	89.510	339.760	6552.10	6178.93	6118.74	-1208.81	1621258.90	326357.45	39°23'17.8386"N	80°50'24.2255"W	6237.00	348.825	0.20	0.03	-0.20	
13197.00	89.420	339.550	6552.98	6272.90	6206.87	-1241.49	1621226.23	326445.58	39°23'18.7048"N	80°50'24.6584"W	6329.81	348.689	0.24	-0.10	-0.22	
13292.00	89.850	340.260	6553.58	6367.88	6296.08	-1274.13	1621193.59	326534.79	39°23'19.5816"N	80°50'25.0910"W	6423.71	348.560	0.87	0.45	0.75	
13324.00‡	89.850	340.260	6553.67	6399.88	6326.20	-1284.94	1621182.78	326564.91	39°23'19.8777"N	80°50'25.2344"W	6455.38	348.519	0.00	0.00	0.00	

HOLE & CASING SECTIONS - Ref Wellbore: SHR-38Q-HSM AWB Ref Wellpath: SHR-38Q-HSM AWP Proj: 13324'									
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	-0.33	-0.24
17.5in Open Hole	129.00	675.00	546.00	129.00	674.99	-0.33	-0.24	-1.64	-2.80
13.375in Casing Surface	29.00	625.30	596.30	29.00	625.29	0.00	0.00	-1.75	-2.58
12.25in Open Hole	675.00	2640.00	1965.00	674.99	2639.94	-1.64	-2.80	-8.68	1.68
9.625in Casing Intermediate	29.00	2590.20	2561.20	29.00	2590.14	0.00	0.00	-8.62	1.58
8.75in Open Hole	2640.00	5796.00	3156.00	2639.94	5675.52	-8.68	1.68	-221.20	766.60
8.5in Open Hole	5796.00	13324.00	7528.00	5675.52	6553.67	-221.20	766.60	6326.20	-1284.94
5.5in Casing Production	29.00	13324.00	13295.00	29.00	6553.67	0.00	0.00	6326.20	-1284.94

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SHR-38Q-HSM AWP Proj: 13324'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	CNX GAS COMPANY, LLC	Well	SHR-38Q-HSM
Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SHR-38Q-HSM BHL Rev-3	6548.00	6325.83	-1286.38	1621181.34	326564.53	39°23'19.8737"N	80°50'25.2527"W	point
SHR-38Q-HSM LP Rev-3	6548.00	498.20	720.24	1623187.85	320737.20	39°22'22.5774"N	80°49'58.5970"W	point
SHR-38 North A Lease Rev-1	7001.59	0.00	0.00	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	7001.59	0.00	0.00	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-38Q-HSM AWB Ref Wellpath: SHR-38Q-HSM AWP Proj: 13324'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
29.00	2566.00	SDI Keeper v1.04	01 SDI Keeper Gyro <12-1/4"> (100'-2566')	SHR-38Q-HSM AWB	07/Dec/2019	
2566.00	5721.00	OWSG MWD rev2 + HRGM	02 QES MWD <8-3/4"> (2566')(2597'-5721')	SHR-38Q-HSM AWB	07/Dec/2019	
5721.00	13324.00	BH AutoTrak Curve (2019) (Short spacing)	03 BH AT Curve <8-1/2"> (5721')(5821'-13292')	SHR-38Q-HSM AWB	17/Dec/2019	

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SHR-38Q-HSM AWP Proj: 13324'

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Field	Tyler	API	47-095-02652-0000
Facility	SHR-38 Pad	Wellbore	SHR-38Q-HSM AWB
Slot	Slot Q		

COMMENTS
<p>Wellpath general comments API: 47-095-02652-0000 BH Job #: 110171102-A Rig: Patterson 563 Duration: 12/7/2019-12/9/2019 SDI Gyro <12-1/4"> (100'-2566') QES MWD <8-3/4"> (2566')(2597'-5721') BH AT Curve <8-1/2"> (5721')(5821'-13292') Projected MD at TD: 13324'</p>

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