



Company:	Baker Hughes, a GE Company	Long:	80° 32' 13.726" W	GT:	9.805 (m/s2)
Customer/Operator:	CNX Gas Company, LLC	Lat:	39° 55' 6.167" N	BT:	52650 (nT)
Date Range:	2/25/2019 - 2/27/2019	Ref North:	Grid	DIP:	66.91 (deg)
Rig Name:	Patterson 582	Mag Declination:	8.59 (deg) W	Nominal Mag Ref:	BGGM
Rig Elev/Dat:	1315.77 (ft) / GL	True to Grid Conv:	0.66 (deg) W	Non-Mag Spacing:	Standard
Well:	MAJ-10D-HSU	TAC:	-7.93 (deg)	MagCorr:	ON
Wellbore:	MAJ-10D-HSU	Ver.Sec.Az:	145.00 (deg)	SAG:	OFF

Scribeline  
Run1: NA

Tie/ Proj	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	True Vertical Depth (ft)	Northing (ft)	Easting (ft)	DLS (deg/100ft)	Vertical Section (ft)	Closure Distance (ft)	Course Length (ft)	Build Rate (deg/100ft)	Turn Rate (deg/100ft)
	0.00	0.00	102.49					0.00		0.00		
	29.00	0.00	102.49	29.00	0.00	0.00	0.00	0.00	0.00	29.00	0.00	0.00
	50.00	0.17	102.49	50.00	-0.01	0.03	0.81	0.02	0.03	21.00	0.81	0.00
	100.00	0.15	5.16	100.00	0.04	0.11	0.48	0.03	0.12	50.00	-0.04	-194.66
	150.00	0.22	232.53	150.00	0.05	0.04	0.68	-0.02	0.06	50.00	0.14	-265.26
	200.00	0.13	268.05	200.00	-0.01	-0.09	0.27	-0.05	0.10	50.00	-0.18	71.04
	250.00	0.17	148.58	250.00	-0.08	-0.11	0.52	0.00	0.14	50.00	0.08	-238.94
	300.00	0.13	66.61	300.00	-0.12	-0.02	0.40	0.08	0.12	50.00	-0.08	-163.94
	350.00	0.13	350.83	350.00	-0.04	0.02	0.32	0.04	0.04	50.00	0.00	-151.56
	400.00	0.16	243.12	400.00	-0.01	-0.05	0.47	-0.02	0.05	50.00	0.06	-215.42
	450.00	0.16	188.59	450.00	-0.11	-0.12	0.29	0.02	0.17	50.00	0.00	-109.06
	500.00	0.17	157.14	500.00	-0.25	-0.10	0.18	0.15	0.27	50.00	0.02	-62.90
	550.00	0.14	135.08	550.00	-0.36	-0.03	0.13	0.28	0.37	50.00	-0.06	-44.12
	600.00	0.12	25.51	600.00	-0.36	0.03	0.43	0.31	0.36	50.00	-0.04	-219.14
	650.00	0.27	126.64	650.00	-0.38	0.15	0.63	0.40	0.41	50.00	0.30	202.26
	700.00	0.21	107.96	700.00	-0.48	0.33	0.20	0.58	0.58	50.00	-0.12	-37.36
	727.00	0.27	136.51	727.00	-0.54	0.42	0.49	0.69	0.69	27.00	0.22	105.74
	906.00	0.59	282.88	905.99	-0.64	-0.19	0.46	0.42	0.67	179.00	0.18	81.77
	1000.00	0.99	271.25	999.99	-0.52	-1.47	0.46	-0.42	1.56	94.00	0.43	-12.37
	1095.00	0.85	278.72	1094.97	-0.39	-2.99	0.19	-1.39	3.01	95.00	-0.15	7.86
	1190.00	0.78	276.92	1189.96	-0.21	-4.32	0.08	-2.31	4.33	95.00	-0.07	-1.89
	1285.00	0.28	283.49	1284.96	-0.08	-5.19	0.53	-2.92	5.19	95.00	-0.53	6.92
	1379.00	0.35	235.97	1378.96	-0.18	-5.65	0.28	-3.09	5.66	94.00	0.07	-50.55
	1474.00	0.24	292.29	1473.96	-0.27	-6.08	0.31	-3.26	6.08	95.00	-0.12	59.28
	1569.00	0.10	298.99	1568.96	-0.15	-6.33	0.15	-3.51	6.34	95.00	-0.15	7.05
	1663.00	0.17	314.56	1662.96	-0.02	-6.51	0.08	-3.72	6.51	94.00	0.07	16.56
	1853.00	0.04	340.98	1852.96	0.24	-6.73	0.07	-4.06	6.73	190.00	-0.07	13.91
	1948.00	0.40	339.26	1947.96	0.58	-6.86	0.38	-4.41	6.88	95.00	0.38	-1.81
	2042.00	0.21	356.30	2041.95	1.06	-6.98	0.22	-4.88	7.06	94.00	-0.20	18.13
	2137.00	0.16	346.10	2136.95	1.37	-7.03	0.06	-5.15	7.16	95.00	-0.05	-10.74
	2232.00	0.21	304.95	2231.95	1.59	-7.20	0.15	-5.44	7.38	95.00	0.05	-43.32
	2326.00	0.20	278.32	2325.95	1.72	-7.50	0.10	-5.71	7.70	94.00	-0.01	-28.33
	2421.00	0.24	322.01	2420.95	1.90	-7.79	0.18	-6.02	8.02	95.00	0.04	45.99
	2516.00	0.21	323.75	2515.95	2.20	-8.02	0.03	-6.40	8.31	95.00	-0.03	1.83
	2610.00	0.27	330.58	2609.95	2.53	-8.23	0.07	-6.79	8.61	94.00	0.06	7.27
	2705.00	0.30	304.24	2704.95	2.86	-8.54	0.14	-7.24	9.01	95.00	0.03	-27.73
	2800.00	0.35	330.03	2799.95	3.25	-8.89	0.16	-7.77	9.47	95.00	0.05	27.15
	2895.00	0.34	325.72	2894.95	3.74	-9.20	0.03	-8.34	9.93	95.00	-0.01	-4.54
	2989.00	0.24	322.55	2988.94	4.12	-9.47	0.11	-8.81	10.33	94.00	-0.11	-3.37
	3084.00	0.36	318.62	3083.94	4.51	-9.79	0.13	-9.31	10.78	95.00	0.13	-4.14
	3179.00	0.43	329.32	3178.94	5.04	-10.17	0.11	-9.96	11.35	95.00	0.07	11.26
	3226.00	0.33	318.75	3225.94	5.29	-10.35	0.26	-10.27	11.62	47.00	-0.21	-22.49
Proj	3270.00	0.33	318.75	3269.94	5.48	-10.52	0.00	-10.52	11.86	44.00	0.00	0.00

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**CURRENT WELLBORE DIAGRAM**

MAJ-10D-HSU

47-051-02069

Marshall County, WV

N 518290.86, E 1709096.65 (NAD27)

**Ground Elevation**

**1317 GL Elevation**

**MAJ-10D-HSU SHL**

**WELLBORE DIAGRAM**

HOLE	CASING	GEOLOGY	MAJ-10D-HSU SHL			COMMENTS
			MD-GL	TVD-GL	MUD	
36"	30" L/S	Conductor	100	100	AIR	Drill with auger Stabilize surface fill/soil
24"	18-5/8" 87.5# J-55 BTC	Washington Coal		352		Set through fresh water zones  Set through coal zones  Cemented to surface with 1455 sxs (313 bbls), 78 bbls cement returned to surface
		Deepest Fresh Water		482		
		Waynesburg 2 Coal		489		
		Waynesburg 1 Coal		490	AIR / FW Mist	
		Sewickley Coal		690		
		Pittsburgh Coal		779		
		FW / Coal Casing	830	830		
		Gas Sand		1403		
		Salt Sands		1470		
		Big Lime		1860		
17-1/2"	13-3/8" 68.0# L-80HC BTC	Big Injun Sand		1966	Halliburton 16.8 ppg Class H GasStop blend with additives 35% OH Excess Yield = 1.07 TOC @ surface	
		Gantz Sand		2172		
		Gordon Sand		2776		
		Fifth Sand		2827		
		Intermediate Casing	3196	3196		

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