



Company: Baker Hughes, a GE Company  
 Customer/Operator: CNX  
 Date Range: 2/19/2019 - 2/22/2019  
 Rig Name: Patterson 582  
 Rig Elv/Dat: 29.00 (ft) / GL  
 Well: MAJ-10C-HSU  
 Wellbore: MAJ-10C-HSU

TAC: -7.93 (deg)  
 Ver.Sec.Az: 145.00 (deg)

Tie/ Proj	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature (degF)	True Vertical Depth (ft)	Vertical Section (ft)
	0.00	0.00	327.53			
	29.00	0.00	327.53		29.00	0.00
	67.00	0.20	327.53		67.00	-0.07
	117.00	0.08	124.68		117.00	-0.12
	167.00	0.11	269.20		167.00	-0.11
	217.00	0.10	292.31		217.00	-0.18
	267.00	0.11	171.97		267.00	-0.17
	317.00	0.18	119.66		317.00	-0.06
	367.00	0.16	300.29		367.00	-0.05
	417.00	0.16	125.91		417.00	-0.05
	467.00	0.19	188.95		467.00	0.08
	517.00	0.20	159.72		517.00	0.22
	567.00	0.21	194.92		567.00	0.36
	617.00	0.17	90.76		617.00	0.47
	667.00	0.45	201.45		667.00	0.62
	717.00	0.50	159.15		717.00	0.94
	760.00	0.18	61.64		760.00	1.13
	912.00	0.10	22.51	45.50	912.00	1.08
	1007.00	0.21	354.23	45.50	1007.00	0.89
	1102.00	0.07	348.39	41.00	1101.99	0.68
	1196.00	0.26	279.96	45.50	1195.99	0.48
	1291.00	0.13	309.40	47.75	1290.99	0.22
	1386.00	0.10	258.77	47.75	1385.99	0.09
	1575.00	0.10	229.41	50.00	1574.99	0.04
	1670.00	0.03	286.52	52.25	1669.99	0.02
	1765.00	0.19	291.74	52.25	1764.99	-0.13
	1859.00	0.13	321.71	52.25	1858.99	-0.36
	1954.00	0.26	335.83	52.25	1953.99	-0.68
	2049.00	0.26	337.97	52.25	2048.99	-1.10
	2144.00	0.40	330.38	54.50	2143.99	-1.64
	2238.00	0.33	306.39	54.50	2237.99	-2.23
	2333.00	0.54	315.11	54.50	2332.98	-2.93
	2429.00	0.44	305.19	56.75	2428.98	-3.72
	2523.00	0.60	306.88	54.50	2522.98	-4.53
	2713.00	0.52	305.39	54.50	2712.97	-6.29
	2808.00	0.50	309.72	54.50	2807.96	-7.09
	2901.00	0.45	312.31	54.50	2900.96	-7.84
	2996.00	0.40	305.25	56.75	2995.96	-8.52
	3091.00	0.42	302.12	56.75	3090.96	-9.15
	3185.00	0.53	316.45	56.75	3184.95	-9.90
	3217.00	0.47	296.50	56.75	3216.95	-10.16

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 WV Department of  
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**CURRENT WELLBORE DIAGRAM**

MAJ-10C-HSU

47-051-02065

Marshall County, WV

N 518298.07, E 1709078.59 (NAD27)

Ground Elevation		1317 GL Elevation			MAJ-10C-HSU SHL				
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	MD-GL	TVD-GL	MUD	CEMENT	COMMENTS	
	36"	30" L/S	Conductor	100	100	AIR	Grout to Surface	Drill with auger Stabilize surface fill/soil	
	24"	18-5/8" 87.5# J-55 BTC	Washington Coal		352			BJ 15.6 ppg Class A + 2% CaCl2 + 1/4 pps Flake 50% OH Excess Yield = 1.19 TOC @ surface	Set through fresh water zones  Set through coal zones  Cemented to surface with 1428 sxs (256 bbls), 25 bbls cement returned to surface
			Deepest Fresh Water		482				
			Waynesburg 2 Coal		489		AIR / FW Mist		
			Waynesburg 1 Coal		490				
			Sewickley Coal		690				
			Pittsburgh Coal		779				
			FW / Coal Casing		835				
	Gas Sand		1403				Halliburton 16.8 ppg Class H GasStop blend with additives 35% OH Excess Yield = 1.07 TOC @ surface	Set through gas storage interval  Casing to be set below the Fifth Sand  Cemented to surface with 2710 sxs (514 bbls), 98 bbls cement returned to surface	
	Salt Sands		1470						
Big Lime		1860							
17-1/2"	13-3/8" 68.0# L-80HC BTC	Big Injun Sand		1966		AIR / Soap			
		Gantz Sand		2172					
		Gordon Sand		2776					
		Fifth Sand		2827					
		Intermediate Casing		3181	3181				

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