

Oklahoma Gas and Electric LLC– McClain Facility; Newcastle, Oklahoma – 2023 ODEQ Permit Renewal
September 2023

APPENDIX 3 MULTILAYER PRESSURE CALIBRATION MODEL

File: oge_cal_historical_60md.RCV

Injection Well #1-WDW-1

TITLE OGE - Monthly Flowing Calibration - 60 md
MONTH 253. 0. TINJ, TPC
4 1 4 NLEV, NINJ, & INJECTION LEVELS
NOFAULT Include fault in calculation
PCNT CALCULATE DATA FOR PRESSURE CONTOUR PLOTS
8.0 RANGE FOR GRID (MI) and Grid center coordinates
3 10 11 21 NCNTTP, & CONTOUR TIME PERIODS
100. .001 0.1E-14 1.0 8.00E-6 CONFINING LAYER 1
100. .20 .500 1.0 5.26E-7 OVERLYING SAND LAYER 2
100. .001 0.1E-14 1.0 8.00E-6 CONFINING LAYER 3
502. .184 .0600 .81 6.60E-7 Pawhuska Sand Injection
1 INJECTION WELLS
1 0.0 0.0
28 ARTIFICIAL PENETRATIONS/MONITOR POINTS
1 -837.0 3493.0
2 2364.0 3101.0
3 4653.0 1984.0
4 1040.0 1680.0
5 1358.0 1390.0
6 -3765.0 1139.0
7 -3929.0 -1036.0
8 1007.0 -1973.0
9 4468.0 -1520.0

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10	190.0	-1471.0
11	-488.0	-2384.0
12	-1590.0	-4747.0
13	-4246.0	-3616.0
17	-5240.0	2583.0
18	-3209.0	9576.0
19	3105.0	8979.0
20	6616.0	8108.0
21	5357.0	3470.0
22	6014.0	3359.0
23	5990.0	2008.0
24	5962.0	635.0
25	8927.0	4312.0
27	8913.0	2967.0
30	8532.0	-3951.0
31	7600.0	-4959.0
32	6248.0	-3706.0
34	3634.0	-6308.0
A1	0.0	10560.0
0502	90.0	
	1	
0602	151.1	
	1	
0702	303.6	

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Injection Well #1-WDW-1

1
0802 197.1
1
0902 165.1
1
1002 56.6
1
1102 17.8
1
1202 28.8
1
0103 84.8
1
0203 58.1
1
0303 105.6
1
0403 494.5
1
0503 49.6
1
0603 72.4
1
0703 197.8

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Injection Well #1-WDW-1

1
0803 271.2
1
0903 150.3
1
1003 56.6
1
1103 17.8
1
1203 28.8
1
0104 135.6
1
0204 137.3
1
0304 191.5
1
0404 503.5
1
0504 249.2
1
0604 177.5
1
0704 170.2

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Injection Well #1-WDW-1

1
0804 261.7
1
0904 223.9
1
1004 134.1
1
1104 110.5
1
1204 131.0
1
0105 222.0
1
0205 218.1
1
0305 279.1
1
0405 496.7
1
0505 179.7
1
0605 237.7
1
0705 262.5

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Injection Well #1-WDW-1

1
0805 250.6
1
0905 231.1
1
1005 172.9
1
1105 73.9
1
1205 242.0
1
0106 187.8
1
0206 194.3
1
0306 233.4
1
0406 496.7
1
0506 267.1
1
0606 243.5
1
0706 268.8

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Injection Well #1-WDW-1

1
0806 280.2
1
0906 282.0
1
1006 181.6
1
1106 230.5
1
1206 183.2
1
0107 214.2
1
0207 214.3
1
0307 206.0
1
0407 231.5
1
0507 500.0
1
0607 296.2
1
0707 356.1

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Injection Well #1-WDW-1

1
0807 339.2
1
0907 254.9
1
1007 226.0
1
1107 213.8
1
1207 242.1
1
0108 265.6
1
0208 265.6
1
0308 238.3
1
0408 196.8
1
0508 628.4
1
0608 219.9
1
0708 302.4

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Injection Well #1-WDW-1

1
0808 263.7
1
0908 235.8
1
1008 45.4
1
1108 0.0
1
1208 78.1
1
0109 207.5
1
0209 207.5
1
0309 186.2
1
0409 252.7
1
0509 500.0
1
0609 340.6
1
0709 344.8

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Injection Well #1-WDW-1

1
0809 282.9
1
0909 295.2
1
1009 269.7
1
1109 266.2
1
1209 223.8
1
0110 253.1
1
0210 289.0
1
0310 367.9
1
0410 252.7
1
0510 504.3
1
0610 271.5
1
0710 267.4

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Injection Well #1-WDW-1

1
0810 249.0
1
0910 217.7
1
1010 122.9
1
1110 192.3
1
1210 163.2
1
0111 161.3
1
0211 172.5
1
0311 197.0
1
0411 158.0
1
0511 474.6
1
0611 214.7
1
0711 214.7

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Injection Well #1-WDW-1

1
0811 170.7
1
0911 126.0
1
1011 56.3
1
1111 142.8
1
1211 138.8
1
0112 162.4
1
0212 87.9
1
0312 94.9
1
0412 83.6
1
0512 503.0
1
0612 108.0
1
0712 55.7

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Injection Well #1-WDW-1

1
0812 34.2
1
0912 6.1
1
1012 9.3
1
1112 9.6
1
1212 11.2
1
0113 16.4
1
0213 138.7
1
0313 105.8
1
0413 62.2
1
0513 43.8
1
0613 67.1
1
0713 470.0

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Injection Well #1-WDW-1

1
0813 163.2
1
0913 82.5
1
1013 36.0
1
1113 9.5
1
1213 12.4
1
0114 22.0
1
0214 16.4
1
0314 12.7
1
0414 36.6
1
0514 503.0
1
0614 30.3
1
0714 7.9

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Injection Well #1-WDW-1

1
0814 20.9
1
0914 56.5
1
1014 11.1
1
1114 0.0
1
1214 17.3
1
0115 19.5
1
0215 18.0
1
0315 43.6
1
0415 155.0
1
0515 500.0
1
0615 228.8
1
0715 193.1

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Injection Well #1-WDW-1

1
0815 75.7
1
0915 14.5
1
1015 59.3
1
1115 25.6
1
1215 220.1
1
0116 245.2
1
0216 127.0
1
0316 26.8
1
0416 5.8
1
0516 454.0
1
0616 37.6
1
0716 13.3

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Injection Well #1-WDW-1

1	
0816	7.1
1	
0916	29.0
1	
1016	25.0
1	
1116	82.7
1	
1216	71.5
1	
0117	74.2
1	
0217	31.0
1	
0317	18.5
1	
0417	2.9
1	
0517	475.0
1	
0617	37.6
1	
0717	13.3

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Injection Well #1-WDW-1

1
0817 7.1
1
0917 29.0
1
1017 25.0
1
1117 82.7
1
1217 71.5
1
0118 74.2
1
0218 31.0
1
0318 18.5
1
0418 2.9
1
0518 478.0
1
0618 59.7
1
0718 10.3

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Injection Well #1-WDW-1

1
0818 5.4
1
0918 3.5
1
1018 26.1
1
1118 28.5
1
1218 7.3
1
0119 275.9
1
0219 16.0
1
0319 25.5
1
0419 21.6
1
0519 470.0
1
0619 79.3
1
0719 27.0

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Injection Well #1-WDW-1

1	
0819	4.0
1	
0919	2.6
1	
1019	8.2
1	
1119	6.3
1	
1219	6.1
1	
0120	10.5
1	
0220	3.6
1	
0320	15.3
1	
0420	20.3
1	
0520	6.4
1	
0620	450.0
1	
0720	3.0

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Injection Well #1-WDW-1

	1
0820	0.0
	1
0920	9.3
	1
1020	13.5
	1
1120	7.8
	1
1220	2.8
	1
0121	7.7
	1
0221	1.8
	1
0321	5.1
	1
0421	16.3
	1
0521	448.0
	1
0621	34.7
	1
0721	22.6

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Injection Well #1-WDW-1

	1
0821	5.5
	1
0921	9.0
	1
1021	14.0
	1
1121	1.3
	1
1221	5.8
	1
0122	4.1
	1
0222	5.1
	1
0322	5.9
	1
0422	29.5
	1
0522	450.0
	1
0622	19.5
	1
0722	4.7

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Injection Well #1-WDW-1

	1
0822	1.7
	1
0922	28.0
	1
1022	14.0
	1
1122	2.2
	1
1222	5.1
	1
0123	8.4
	1
0223	4.3
	1
0323	3.8
	1
0423	38.5
	1
0523	400.0
	1