

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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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