

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

APPENDIX 3 MULTILAYER PRESSURE MODEL

File-oge_maxcase_530_60md.rcv

Injection Well #1-WDW-1

TITLE OGE - Annual Maximum Rate (530 GPM 2023-YE2035)60-md

YEAR 34. 30. TINJ, TPC

4 1 4 NLEV, NINJ, & INJECTION LEVELS

Maximum Rate Include fault in calculation

PCNT CALCULATE DATA FOR PRESSURE CONTOUR PLOTS

8.0 RANGE FOR GRID (MI) and Grid center coordinates

3 20 21 34 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
2002	84.2	
	1	
2003	98.3	
	1	
2004	175.2	

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1
2005 217.6
1
2006 236.1
1
2007 257.8
1
2008 197.0
1
2009 265.5
1
2010 246.6
1
2011 161.6
1
2012 61.7
1
2013 65.4
1
2014 22.3
1
2015 91.3
1
2016 64.4

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1
2017 41.3
1
2018 27.3
1
2019 42.3
1
2020 9.4
1
2021 11.6
1
2022 11.8
1
2023 550.0
1