

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

APPENDIX 3 MULTILAYER PESSURE MODEL

Injection Well #1-WDW-1

PINJ File- oge_maxcase_530_60md.pinj

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

YEAR 1 1 64

PRESSURES AT INJECTION WELL COORDINATES FOR FORMATION LEVEL 4

---- Pawhuska Sand Injection ---- 0.0

(1)

1	2002	115.4
2	2003	138.6
3	2004	246.8
4	2005	310.4
5	2006	341.2
6	2007	375.6
7	2008	296.6
8	2009	391.1
9	2010	369.4
10	2011	255.1
11	2012	116.2
12	2013	116.2
13	2014	54.6
14	2015	145.6

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15	2016	109.6
16	2017	77.0
17	2018	56.1
18	2019	75.0
19	2020	29.4
20	2021	30.4
21	2022	29.5
22	2023	766.3
23	2024	790.0
24	2025	803.7
25	2026	813.3
26	2027	820.7
27	2028	826.7
28	2029	831.8
29	2030	836.2
30	2031	840.0
31	2032	843.5
32	2033	846.6
33	2034	849.5
34	2035	852.1
35	PC 1	100.7
36	PC 2	78.0
37	PC 3	65.6

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38	PC 4	57.2
39	PC 5	51.1
40	PC 6	46.3
41	PC 7	42.5
42	PC 8	39.3
43	PC 9	36.6
44	PC10	34.3
45	PC11	32.2
46	PC12	30.5
47	PC13	28.9
48	PC14	27.5
49	PC15	26.2
50	PC16	25.1
51	PC17	24.0
52	PC18	23.1
53	PC19	22.2
54	PC20	21.4
55	PC21	20.6
56	PC22	19.9
57	PC23	19.3
58	PC24	18.7
59	PC25	18.1
60	PC26	17.6

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61 PC27 17.1
62 PC28 16.6
63 PC29 16.1
64 PC30 15.7

INPUT PARAMETERS

THK	PHI	PERM	VISC	COMP	
100.00	0.001	.100E-14	1.00	8.000E-06	CONFINING LAYER 1
100.00	0.200	.500	1.00	5.260E-07	OVERLYING SAND LAYER 2
100.00	0.001	.100E-14	1.00	8.000E-06	CONFINING LAYER 3
502.00	0.184	.600E-01	0.81	6.600E-07	Pawhuska Sand Injection