

In re:	:	
	:	
Windfall Oil & Gas, Inc.	:	Appeal No. UIC 21-01
	:	
Permit No. PAS2D020BCLE	:	

I, Kevin Rowsey, a technical UIC expert and permit writer in the Source Water & UIC Section of the Water Division of Region III, U.S. EPA, certify that the administrative record for the final decision on this permit was final on December 13, 2020. The administrative record includes, to the best of my knowledge, all of the documents required under 40 C.F.R. § 124.18. This Administrative Record Index references all the documents in the administrative record for this permit decision.

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**EPA Region III
Windfall Oil & Gas UIC Permit
Permit No. PAS2D020BCLE (Reissued**

Administrative Record Index

1. Original Application (April 2012), including attachments
2. Original Administrative Record Index for 2015 Permit (February 2015)
3. Original Statement of Basis for 2015 Permit (November 2012)
4. Supplemental Statement of Basis for 2015 Permit (August 2013)
5. Response to Comments for 2015 Permit (February 2014)
6. 2015 Windfall Permit (effective: July 30, 2015)
7. Windfall Request for Modification (dated: April 6, 2018)
8. EPA Request for Information (RFI) (dated: April 19, 2018)
9. Windfall Response to RFI (dated: June 4, 2018)
10. EPA Request for Information (RFI) (dated: August 1, 2018)
11. Windfall Response to RFI (dated: October 19, 2018)
12. Draft Modified Permit (public noticed on July 29, 2019)
13. Statement of Basis for Modified Permit (public noticed on July 29, 2019)
14. Permit Modification Request Withdrawal (September 3, 2019)
15. Application for Permit Renewal, including attachments (2020 Permit) (received April 10, 2020)
16. Draft Permit, July 24, 2020
17. Public Notice of Draft Permit (August 14, 2020)
18. Statement of Basis for Draft Permit, July 24, 2020 (public noticed 8/14/20)
19. Comments received on Draft 2020 Permit (September 2020)

20. Transcript of Public Hearing for Draft 2020 Permit (September 17, 2020)
21. Response to Comments for 2020 Permit (December 13, 2020)
22. Endangered Species Act official species list. U.S. Fish & Wildlife Service. (record search May 18, 2020)
23. ESA No Potential to Cause Effect Memo to File (May 18, 2020)
24. NHPA No Potential to Cause Effect Memo to File (May 19, 2020)
25. Environmental Justice Screening. Completed by EPA Staff of May 19, 2020
26. EPA Form 7520-18, (“Completion Report for Injection Wells”). Blank form. To be completed by Owner/Operator after well construction is completed.
27. EPA Region 3, “Region 3 Framework for Evaluating Seismic Potential Associated with UIC Class II Permits,” updated September 2013
28. EPA, UIC National Technical Workgroup, “Minimizing and Managing Potential Impacts of Injection-Induced Seismicity from Class II Disposal Wells: Practical Approaches,” February 5, 2015
29. Frank & Susan Zelman #1 Comment-Response, Response to Comments for PADEP Draft UIC Permit (March 21, 2018)
30. Brine Intrusion in Washington County Producing Wells Executive Summary, Ohio Department of Natural Resources, August 2020
31. Permit Issuance notices to permittee and commenters, December 13, 2020 (notice also posted on EPA public notice website)
32. Final 2020 Permit, issued December 13, 2020. effective January 15, 2021
33. Environmental Appeals Board Order Denying Petitions for Review of 2015 Permit, *In Re Windfall Oil & Gas, Inc.* (issued: June 12, 2015)
34. Minor Modification of 2015 Permit (corrected a typographical error in the permit and extended its expiration date from July 30, 2019 to July 30, 2020, to account for the period when the permit was stayed due to the prior EAB appeal) (May 7, 2019)
35. Pennsylvania Department of Environmental Protection (PaDEP), Environmental Hearing Board Adjudication on PaDEP Windfall Permit (issued: February 18, 2020)

36. Pennsylvania Geological Survey, *Geology and Mineral Resources of the Southern Half of the Penfield 15-Minute Quadrangle, Pennsylvania*, 1971/1973 (with Plate 12), pp. 123-24.
37. National Academy of Sciences, *Induced Seismicity Potential in Energy Technologies*, National Academy Press, 2014, Chapters 2 and 3
38. Ground Water Research & Education Foundation *A White Paper Summarizing a Special Session on Induced Seismicity*, February 2013
39. Ohio Department of Natural Resources, *Preliminary Report on the Northstar I Class II Injection Well and the Seismic Events in Youngstown, Ohio Area*, March 2012
40. Scharnberg, *Earthquake Hazard in Pennsylvania*, Pennsylvania Geological Survey, 2003
41. Horton, *Disposal of Hydrofracking Fluid by Injection into Subsurface Aquifers Triggers Earthquake Swarm in Central Arkansas with Potential for Damaging Earthquake*, Seismological Research Letters, Vol 83, March/April 2012, pp. 250-260
42. Frohlich, *Two-Year Survey Comparing Earthquake Activity and Injection-Well Locations in the Barnett Shale, Texas*, Proceedings of the National Academy of Science Early Edition, 2012
43. K. Keranen *et al*, *Potentially Induced Earthquakes in Oklahoma, USA: Links between Wastewater Injection and the 2001 Mw 5.7 Earthquake Sequence*, Geology, June 2013, vol. 41, no.6, pp. 699-702
44. PaDEP Office of Oil and Gas Management, Gas production reports for gas wells #033-20327 and 033-20333, located in Brady Township, Clearfield County, Pennsylvania
45. US EPA Office of Drinking Water, *Final Injection Well Construction Practices and Technology*, October 1982
46. Zone of Endangering Influence Calculation (performed by EPA staff on October 1, 2012)
47. Seismic maps of Pennsylvania, U.S. Geological Survey and Pennsylvania Department of Conservation and Natural Resources