# Title 40 CFR Part 191
# Subparts B and C
# Compliance Recertification Application 2026
# for the
# Waste Isolation Pilot Plant

## Appendix DATA-2026
## Attachment A: WIPP Borehole Update

## United States Department of Energy
## Waste Isolation Pilot Plant

**Carlsbad Field Office**
**Carlsbad, New Mexico**

# Appendix DATA-2026
# Attachment A: WIPP Borehole Update

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## ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| BLM | Bureau of Land Management |
| CCA | Compliance Certification Application |
| CFR | Code of Federal Regulations |
| CRA | Compliance Recertification Application |
| DOE | U.S. Department of Energy |
| WIPP | Waste Isolation Pilot Plant |

## DATA-A-1.0 WIPP BOREHOLES

The U.S. Department of Energy (DOE) prepared DOE/WIPP-95-2092, Revision 1, Waste Isolation Pilot Plant (WIPP) Borehole Data Report (the Compliance Certification Application [CCA], Appendix BH) (U.S. DOE 1996) to serve as a central document, providing data on boreholes used in characterizing the site. The report contains a comprehensive database of wells drilled in support of the WIPP Project including boreholes located within the 16-section land withdrawal area.

The CCA, Appendix BH (U.S. DOE 1996) describes seven groups of boreholes: commercially drilled boreholes, DOE wells, geologic exploration boreholes, hydrologic test boreholes, potash boreholes, subsurface exploration boreholes, and Water Quality Sampling Program boreholes. There are 179 boreholes listed in the report. At the time of the CCA, 80 of those boreholes were being used as monitoring wells. The rest of the boreholes were plugged and abandoned after being drilled for their specific purpose, i.e., potash information, hydrocarbon information, or WIPP site characterization information.

The Appendix DATA-2004, Attachment G, WIPP Borehole Update (U.S. DOE 2004), was provided to add the new monitoring wells drilled since the initial certification and wells that were in use but omitted from the CCA, Appendix BH. The Appendix DATA-2004, Attachment G provided information on 112 boreholes.

The Appendix DATA-2009, Attachment A, WIPP Borehole Update (U.S. DOE 2009), was provided to add the new monitoring wells. The Appendix DATA-2009, Attachment A provided information on 215 boreholes.

The Appendix DATA-2014, Attachment A, WIPP Borehole Update (U.S. DOE 2014), was provided to add the new monitoring wells. The Appendix DATA-2014, Attachment A provided information on 221 boreholes.

The Appendix HYDRO-2019, Attachment A, WIPP Borehole Update (U.S. DOE 2019) was provided to add the new monitoring wells. The Appendix DATA-2019, Attachment A provided information on 224 boreholes.

This attachment updates the list of WIPP boreholes, either specifically drilled to support the WIPP site characterization process or obtained for monitoring purposes, which indicate the wells that have been plugged, abandoned, and/or reconfigured since the Compliance Recertification Application-2019 (CRA) data cutoff date (see Appendix HYDRO-5.0, Table HYDRO-1). Table DATA-A-1 provides the status of 105 boreholes, including the name of the formation being monitored, whether the borehole is currently configured as a water or observation well, and whether it has been plugged and abandoned. A status of “N/A” means the borehole was not being used or had not yet been drilled at the time of the status report. “Observation,” means the borehole was drilled for site characterization, but left unplugged for future monitoring purposes.

## Table DATA-A-1. Status of WIPP Boreholes as of January 10, 2025

| Well Name | CCA Status | CRA-2004 Status | CRA-2009 Status | CRA-2014 Status | CRA-2019 Status | CRA-2026 Status | Original Depth | Year Drilled |
|---|---|---|---|---|---|---|---|---|
| AEC-7 | Culebra | Culebra | Culebra | Culebra | Plugged | Plugged | 4734 ft | 1974 |
| AEC-7R | N/A | N/A | N/A | N/A | Culebra | Culebra | 891 ft | 2013 |
| AEC-8 | Bell Canyon | Bell Canyon | Plugged | Plugged | Plugged | Plugged | 4922 ft | 1974 |
| C-2737 | N/A | Culebra/ Magenta | Culebra/ Magenta | Culebra/ Magenta | Culebra/ Magenta | Culebra/ Magenta | 710 ft | 2001 |
| C-2811 | N/A | Santa Rosa/ Dewey Lake | Santa Rosa/ Dewey Lake | Santa Rosa/ Dewey Lake | Santa Rosa/ Dewey Lake | Santa Rosa/ Dewey Lake | 80 ft | 2001 |
| CB-1 | Culebra | Culebra/ Bell Canyon | Bell Canyon | Bell Canyon | Bell Canyon | Bell Canyon | 4,299 ft | 1974 |
| DOE-1 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 4,057 ft | 1982 |
| DOE-2 | Culebra | Bell Canyon | Magenta | Magenta | Magenta | Magenta | 4,325 ft | 1984 |
| ERDA-6 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 2,775 ft | 1975 |
| ERDA-9 | Culebra | Culebra | Culebra | Culebra | Culebra | Plugged | 2,886 ft | 1976 |
| ERDA-10 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 4,430 ft | 1977 |
| ERDA-11 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 40 ft | 1977 |
| ES-001 | N/A | Plugged | Plugged | Plugged | Plugged | Plugged | 54 ft | 1996 |
| ES-002 | N/A | Plugged | Plugged | Plugged | Plugged | Plugged | 19 ft | 1996 |
| H-1 | Culebra/ Magenta | Plugged | Plugged | Plugged | Plugged | Plugged | 856 ft | 1976 |
| H-2a | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 672 ft | 1977 |
| H-2b1 | Magenta | Magenta | Magenta | Magenta | Magenta | Magenta | 661 ft | 1977 |
| H-2b2 | Culebra | Culebra | Culebra | Culebra | Culebra | Plugged | 660 ft | 1983 |
| H-2c | Magenta | Culebra | Plugged | Plugged | Plugged | Plugged | 795 ft | 1977 |
| H-3b1 | Magenta | Magenta | Magenta | Magenta | Magenta | Magenta | 902 ft | 1976 |
| H-3b2 | Culebra | Culebra | Culebra | Culebra | Culebra | Plugged | 725 ft | 1983 |
| H-3b3 | Magenta | Culebra | Plugged | Plugged | Plugged | Plugged | 730 ft | 1983 |
| H-3d | Dewey Lake | Dewey Lake/ Forty-niner | Santa Rosa/ Dewey Lake | Santa Rosa/ Dewey Lake | Santa Rosa/ Dewey Lake | Santa Rosa/ Dewey Lake | 554 ft | 1987 |
| H-4a | N/A | Plugged | Plugged | Plugged | Plugged | Plugged | 532 ft | 1978 |
| H-4b | Culebra | Culebra | Culebra | Plugged | Plugged | Plugged | 529 ft | 1978 |
| H-4bR | N/A | N/A | N/A | Culebra | Culebra | Culebra | 529 ft | 2009 |
| H-4c | Magenta | Magenta | Magenta | Magenta | Magenta | Magenta | 661 ft | 1978 |
| H-5a | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 930 ft | 1978 |
| H-5b | Culebra | Culebra | Culebra | Culebra | Culebra | Plugged | 925 ft | 1978 |
| H-5bR | N/A | N/A | N/A | N/A | N/A | Culebra | 944 ft | 2019 |
| H-5c | Magenta | Magenta | Not in Use | Magenta | Magenta | Plugged | 1,076 ft | 1978 |

| Well Name | CCA Status | CRA-2004 Status | CRA-2009 Status | CRA-2014 Status | CRA-2019 Status | CRA-2026 Status | Original Depth | Year Drilled |
|---|---|---|---|---|---|---|---|---|
| H-6a | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 637 ft | 1978 |
| H-6b | Culebra | Culebra | Culebra | Plugged | Plugged | Plugged | 640 ft | 1978 |
| H-6bR | N/A | N/A | N/A | Culebra | Culebra | Culebra | 640 ft | 2008 |
| H-6c | Culebra | Culebra | Magenta | Magenta | Magenta | Magenta | 741 ft | 1978 |
| H-7a | N/A | Plugged | Plugged | Plugged | Plugged | Plugged | 154 ft | 1979 |
| H-7b1 | Culebra | Culebra | Culebra | Culebra | Culebra | Plugged | 286 ft | 1979 |
| H-7b2 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 295 ft | 1983 |
| H-7c | N/A | N/A | BLM | BLM | BLM | BLM | 420 ft | 1979 |
| H-8a | Magenta | Magenta | Magenta | Magenta | Magenta | Magenta | 505 ft | 1979 |
| H-8b | N/A | Rancher's Water Well | Rancher's Water Well | Rancher's Water Well | Rancher's Water Well | Rancher's Water Well | 624 ft | 1979 |
| H-8c | Rustler | Rustler | BLM | BLM | BLM | BLM | 808 ft | 1979 |
| H-9a | Culebra | Plugged | Plugged | Plugged | Plugged | Plugged | 692 ft | 1979 |
| H-9b | Culebra | Culebra | Not in Use | Plugged | Plugged | Plugged | 708 ft | 1979 |
| H-9bR | N/A | N/A | N/A | Culebra | Culebra | Culebra | 686 ft | 2010 |
| H-9c | Culebra | Magenta | Culebra/ Magenta | Magenta | Magenta | Magenta | 816 ft | 1979 |
| H-10a | Magenta | Magenta | Magenta | Magenta | Magenta | Magenta | 1,318 ft | 1979 |
| H-10b | Magenta | Plugged | Plugged | Plugged | Plugged | Plugged | 1,398 ft | 1979 |
| H-10c | N/A | Culebra | Culebra | Culebra | Plugged | Plugged | 1,550 ft | 1979 |
| H-10cR | N/A | N/A | N/A | N/A | Culebra | Culebra | 1420 ft | 2015 |
| H-11b1 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 785 ft | 1983 |
| H-11b2 | Culebra | Magenta | Magenta | Magenta | Magenta | Magenta | 776 ft | 1983 |
| H-11b3 | Culebra | Plugged | Plugged | Plugged | Plugged | Plugged | 789 ft | 1983 |
| H-11b4 | N/A | Culebra | Culebra | Plugged | Plugged | Plugged | 765 ft | 1988 |
| H-11b4R | N/A | N/A | N/A | Culebra | Culebra | Culebra | 755 ft | 2011 |
| H-11b4Ra | N/A | N/A | N/A | Plugged | Plugged | Plugged | 774 ft | 2011 |
| H-12 | Culebra | Culebra | Culebra | Culebra | Plugged | Plugged | 1,001 ft | 1983 |
| H-12R | N/A | N/A | N/A | N/A | Culebra | Culebra | 865 ft | 2014 |
| H-14 | Culebra | Magenta | Magenta | Magenta | Magenta | Magenta | 589 ft | 1986 |
| H-15 | Culebra | Magenta | Culebra/ Magenta | Magenta | Magenta | Magenta | 900 ft | 1986 |
| H-15R | N/A | N/A | N/A | Culebra | Culebra | Culebra | 924 ft | 2009 |
| H-16 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 851 ft | 1987 |
| H-17 | Culebra | Culebra | Culebra | Culebra | Culebra | Plugged | 880 ft | 1987 |
| H-18 | Culebra | Magenta | Magenta | Magenta | Magenta | Magenta | 840 ft | 1987 |
| H-19b | N/A | N/A | N/A | N/A | N/A | N/A | 40 ft | 1995 |

| Well Name | CCA Status | CRA-2004 Status | CRA-2009 Status | CRA-2014 Status | CRA-2019 Status | CRA-2026 Status | Original Depth | Year Drilled |
|---|---|---|---|---|---|---|---|---|
| H-19b0 | N/A | Culebra | Culebra | Culebra | Culebra | Culebra | 779 ft | 1995 |
| H-19b1 | N/A | Plugged | Plugged | Plugged | Plugged | Plugged | 733 ft | 1995 |
| H-19b2 | N/A | Culebra | Culebra | Culebra | Culebra | Culebra | 785 ft | 1995 |
| H-19b3 | N/A | Culebra | Culebra | Culebra | Culebra | Culebra | 785 ft | 1995 |
| H-19b4 | N/A | Culebra | Culebra | Culebra | Culebra | Culebra | 782 ft | 1995 |
| H-19b5 | N/A | Culebra | Culebra | Culebra | Culebra | Culebra | 786 ft | 1995 |
| H-19b6 | N/A | Culebra | Culebra | Culebra | Culebra | Culebra | 788 ft | 1995 |
| H-19b7 | N/A | Culebra | Culebra | Culebra | Culebra | Culebra | 785 ft | 1995 |
| IMC-461 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 1,316 ft | 2004 |
| P-1 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,591 ft | 1976 |
| P-2 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,895 ft | 1976 |
| P-3 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,676 ft | 1976 |
| P-4 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,857 ft | 1976 |
| P-5 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,830 ft | 1976 |
| P-6 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,573 ft | 1976 |
| P-7 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,574 ft | 1976 |
| P-8 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,660 ft | 1976 |
| P-9 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,796 ft | 1976 |
| P-10 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 2,009 ft | 1976 |
| P-11 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,940 ft | 1976 |
| P-12 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,598 ft | 1976 |
| P-13 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,576 ft | 1976 |
| P-14 | Culebra | Plugged | Plugged | Plugged | Plugged | Plugged | 1,545 ft | 1976 |
| P-15 | Culebra | Plugged | Plugged | Plugged | Plugged | Plugged | 1,465 ft | 1976 |
| P-16 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,585 ft | 1976 |
| P-17 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 1,660 ft | 1976 |
| P-18 | Culebra | Plugged | Plugged | Plugged | Plugged | Plugged | 1,998 ft | 1976 |
| P-19 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 2,000 ft | 1976 |
| P-20 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,995 ft | 1976 |
| P-21 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,915 ft | 1976 |
| SNL-1 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 644 ft | 2004 |
| SNL-2 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 614 ft | 2003 |
| SNL-3 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 970 ft | 2003 |
| SNL-5 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 687 ft | 2004 |
| SNL-6 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 1,360 ft | 2005 |
| SNL-8 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 981 ft | 2005 |
| SNL-9 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 845 ft | 2003 |

| Well Name | CCA Status | CRA-2004 Status | CRA-2009 Status | CRA-2014 Status | CRA-2019 Status | CRA-2026 Status | Original Depth | Year Drilled |
|---|---|---|---|---|---|---|---|---|
| SNL-10 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 651 ft | 2006 |
| SNL-12 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 905 ft | 2003 |
| SNL-13 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 480 ft | 2005 |
| SNL-14 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 719 ft | 2005 |
| SNL-15 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 950 ft | 2005 |
| SNL-16 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 224 ft | 2006 |
| SNL-17A | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 375 ft | 2006 |
| SNL-17 | N/A | N/A | Plugged | Plugged | Plugged | Plugged | 365 ft | 2006 |
| SNL-18 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 566 ft | 2006 |
| SNL-19 | N/A | N/A | Culebra | Culebra | Culebra | Culebra | 381 ft | 2006 |
| WIPP-11 | N/A | N/A | Culebra | Culebra | Culebra | Plugged | 3,580 ft | 1978 |
| WIPP-11R | N/A | N/A | N/A | N/A | N/A | Culebra | 895 ft | 2019 |
| WIPP-12 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 3,928 ft | 1978 |
| WIPP-13 | Culebra | Culebra | Culebra | Culebra | Culebra | Plugged | 3,856 ft | 1978 |
| WIPP-14 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,000 ft | 1981 |
| WIPP-15 | Water Well | Rancher's Water Well | Rancher's Water Well | Rancher's Water Well | Rancher's Water Well | Rancher's Water Well | 810 ft | 1978 |
| WIPP-16 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,300 ft | 1980 |
| WIPP-18 | Culebra | Magenta | Magenta | Magenta | Magenta | Magenta | 1,060 ft | 1978 |
| WIPP-19 | Culebra | Culebra | Culebra | Culebra | Culebra | Plugged | 1,038 ft | 1978 |
| WIPP-21 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 1,045 ft | 1978 |
| WIPP-22 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 1,450 ft | 1978 |
| WIPP-25 | Culebra/ Magenta | Culebra/ Magenta | Culebra/ Magenta | Plugged | Plugged | Plugged | 655 ft | 1978 |
| WIPP-26 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 503 ft | 1978 |
| WIPP-27 | Culebra/ Magenta | Culebra | Plugged | Plugged | Plugged | Plugged | 592 ft | 1978 |
| WIPP-28 | Rustler | Plugged | Plugged | Plugged | Plugged | Plugged | 801 ft | 1978 |
| WIPP-29 | Culebra | Culebra | Plugged | Plugged | Plugged | Plugged | 377 ft | 1978 |
| WIPP-30 | Culebra/ Magenta | Culebra/ Magenta | Culebra/ Magenta | Plugged | Plugged | Plugged | 912 ft | 1978 |
| WIPP-31 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,982 ft | 1980 |
| WIPP-32 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 390 ft | 1979 |
| WIPP-33 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 840 ft | 1979 |
| WIPP-34 | Plugged | Plugged | Plugged | Plugged | Plugged | Plugged | 1,820 ft | 1979 |
| WQSP-1 | Culebra | Culebra | Culebra | Culebra | Culebra | Culebra | 737 ft | 1994 |
| WQSP-2 | Culebra | Culebra | Culebra | Culebra | Culebra | Culebra | 846 ft | 1994 |
| WQSP-3 | Culebra | Culebra | Culebra | Culebra | Culebra | Culebra | 879 ft | 1994 |

| Well Name | CCA Status | CRA-2004 Status | CRA-2009 Status | CRA-2014 Status | CRA-2019 Status | CRA-2026 Status | Original Depth | Year Drilled |
|---|---|---|---|---|---|---|---|---|
| WQSP-4 | Culebra | Culebra | Culebra | Culebra | Culebra | Culebra | 800 ft | 1994 |
| WQSP-5 | Culebra | Culebra | Culebra | Culebra | Culebra | Culebra | 681 ft | 1994 |
| WQSP-6 | Culebra | Culebra | Culebra | Culebra | Culebra | Culebra | 617 ft | 1994 |

## DATA-A-2.0 REFERENCES

(*Indicates a reference that has not been previously submitted.)

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