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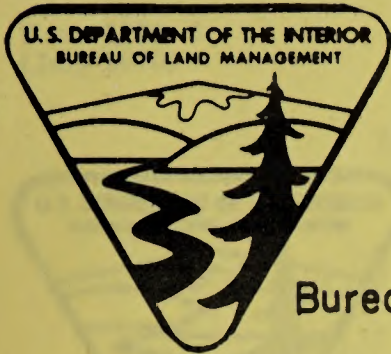
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Date Issued June 1970



TECHNICAL NOTE

Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

Subjects: Deep Well Disposal of Liquid Wastes
Subsurface Disposal of Liquid Wastes

Selected References:

1. Donaldson, Erle C., "Deep Well Disposal of Liquid Mine Wastes," in Proceedings of the Mining Environmental Conference, April 16 - 18, 1969, University of Missouri-Rolla.
2. Donaldson, Erle C., Subsurface Disposal of Industrial Wastes in the U. S., Bureau of Mines Information Circular 8212, 1961, 34 pp.
3. Ives, Robert E. and Eddy, Gerald E., Subsurface Disposal of Industrial Wastes, Interstate Oil Compact Commission, P. O. Box 53127, Oklahoma City, Oklahoma 73105, June 1968, 109 pp.
4. Cleary, Edward J., Perspective on the Regulation of Underground Injection of Industrial Wastewaters, 1969. Available for \$3.00 from ORSANCO, 414 Walnut Street, Cincinnati, Ohio 45202. Recommends against deep well injection.
5. Piper, Arthur M., "Disposal of Liquid Wastes by Injection Underground--Neither Myth nor Millennium," U. S. Geological Survey Circular 631. Free from USGS. An excellent discussion of real and potential problems. Extensive bibliography.

NOTE: In view of the problems which may have resulted from deep well injection of wastes from the Rocky Mountain Arsenal near Denver, any proposals for deep well injection should be thoroughly studied. The trend of thought seems to be unfavorable toward deep well disposal of wastes. The Secretary has assigned to GS the responsibility for research into this subject.

Please send any additional references on this subject or other minerals subjects to DSC (D-310). If the complete article or publication is needed, DSC (D-310) will attempt to obtain a copy or a loan for you.

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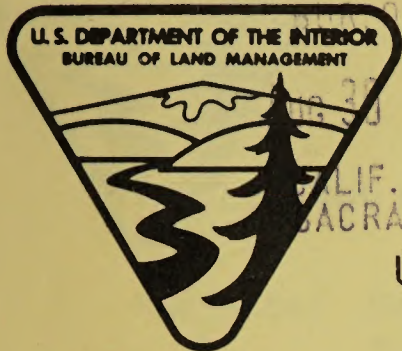
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U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF LAND MANAGEMENT

Subjects: Deep Well Disposal of Liquid Wastes
Subsurface Disposal of Liquid Wastes
(Supplement to June 1970 Technical Note, same subject)

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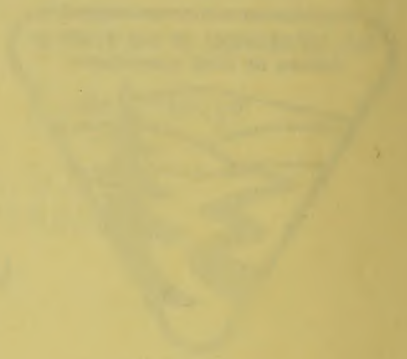
Selected References:

6. Caswell, Charles A., "Underground Waste Disposal: Concepts and Misconceptions," 4 Environmental Science and Technology 642, August 1970.

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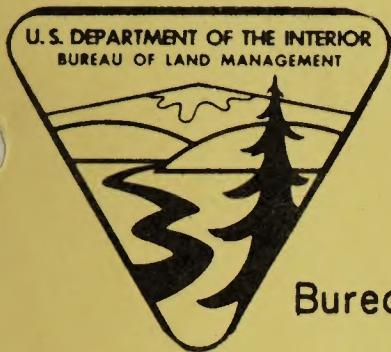
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TECHNICAL NOTE

#78

Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

Subjects: Deep Well Disposal of Liquid Wastes
Subsurface Disposal of Liquid Wastes
(Supplement to June 1970 Technical Note, same subject)

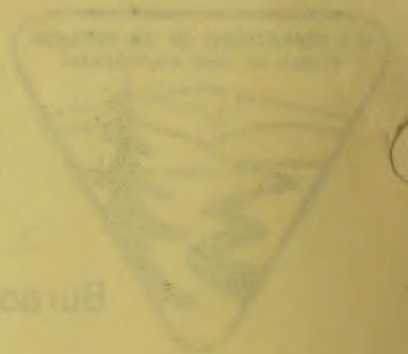
Selected References:

7. Colorado Department of Health, Rules and Regulations for Sub-surface Disposal Systems, July 1, 1970. Apparently one of the better systems.
8. Rima, Chase and Myers, "Subsurface Waste Disposal by Means of Wells - A Selected Annotated Bibliography," U. S. Geological Survey Supply Paper 2020, 1971, GPO (\$1.50).
9. Rudd, Neilson, Some Geological Factors in Deep Well Disposal Site Evaluation, Society of Mining Engineers of AIME, Preprint 71-AG-325, 1971.
10. For EPA regulations concerning disposal of pollutants in wells, see:

40 CFR 124.80 (Approved State Permit Program) - 37 Federal Register 247, December 22, 1972, page 28390.

40 CFR 125.26(a) (EPA Permit Program) - Proposed Rule Making, 38 Federal Register 7, January 11, 1973, page 1362.

TECHNICAL NOTE



Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

Subject: Deep Well Disposal of Liquid Wastes
Substance Disposal of Liquid Wastes
(Supplement to June 1970 Technical Note, same subject)

Selected References

1. Colorado Department of Health, Water and Pollution for Sub-
surface Disposal Systems, July 2, 1970. Apparently one of the
earliest systems.
2. King, James and Myers, "Subsurface Waste Disposal by Means of
Wells - A Selected Annotated Bibliography," U. S. Geological
Survey Open-File Report 70-10, 1971, p. 101-102.
3. King, James, Subsurface Disposal of Wastes in Deep Well Disposal
Systems, Society of Mining Engineers of AIME, Technical
Paper 40-155, 1942.
4. The EPA regulations concerning disposal of pollutants in wells,
see:
40 CFR 135.80 (Approved State Permit Program) - 37 Federal
Register 247, December 23, 1970, page 28190.
40 CFR 135.90 (Self-Permit Program) - Proposed Rule
Notice, 36 Federal Register 7, January 11, 1971, page 1982.