Attachment A - DNR Response
Map of CenterPoint wells & monitors

DEPARTMENT OF NATURAL RESOURCES

Data Request Form

Date (mm/dd/yy): 04/22/24

Name: Carol A. Overland - Legalectric
Address: 1110 West Avenue
City: Red Wing State: MN ZIP code: 550566
Phone number: (612) 227-8638 Email: overland@legalectric.org (preferred)

Note: *You do not have to provide any of the above contact information. However, we may not be able to clarify your request or provide copies without contact information. All requests must be made in writing by using this form or by sending an email or letter.*

Please describe the data you are requesting in the box below and if you would like us to provide:

☒ Inspection ☐ Copies

I'm requesting a file inspection, seeking information on CenterPoint's (formerly Minneogasco) natural gas storage in the dome along Hwy 13, between Waterville & Waseca, specifically including, but not limited to:

1) Information on the current capacity of the dome storage;
2) Map of the physical location;
3) An accurate map of the boundaries of the dome storage showing underground and enough of roads and landmarks on surface to identify where it is;
4) Documentation of 1972 drilling at Lake Sakatah State Park;
5) Documentation of whether gas dome storage extends under Lake Sakatah State Park;
6) Copy of the ORIGINAL/INITIAL license/permit for the facility;
7) Copy of the current license/permit for the facility;
8) Copy of water treatment plant license/permit;
9) Contact info for consulting engineer --years ago Dr. Wetherspoon's health was failing and I'm guessing he's no longer on the project.

... and such other as is in the file.

Thanks,

MS § 13.03, subd.3, authorizes DNR to charge fees to recover costs to provide copies of data. Prepayment is required prior to receiving copies of data.

Submit by mail, fax, or email to:

Minnesota Department of Natural Resources
Data Practices Compliance Official
500 Lafayette Road
St. Paul, MN 55155-4075
Fax: 651.296.0902
Email: datarequest.dnr@state.mn.us

For questions, call the Data Practices Compliance Official at 651.259.5345

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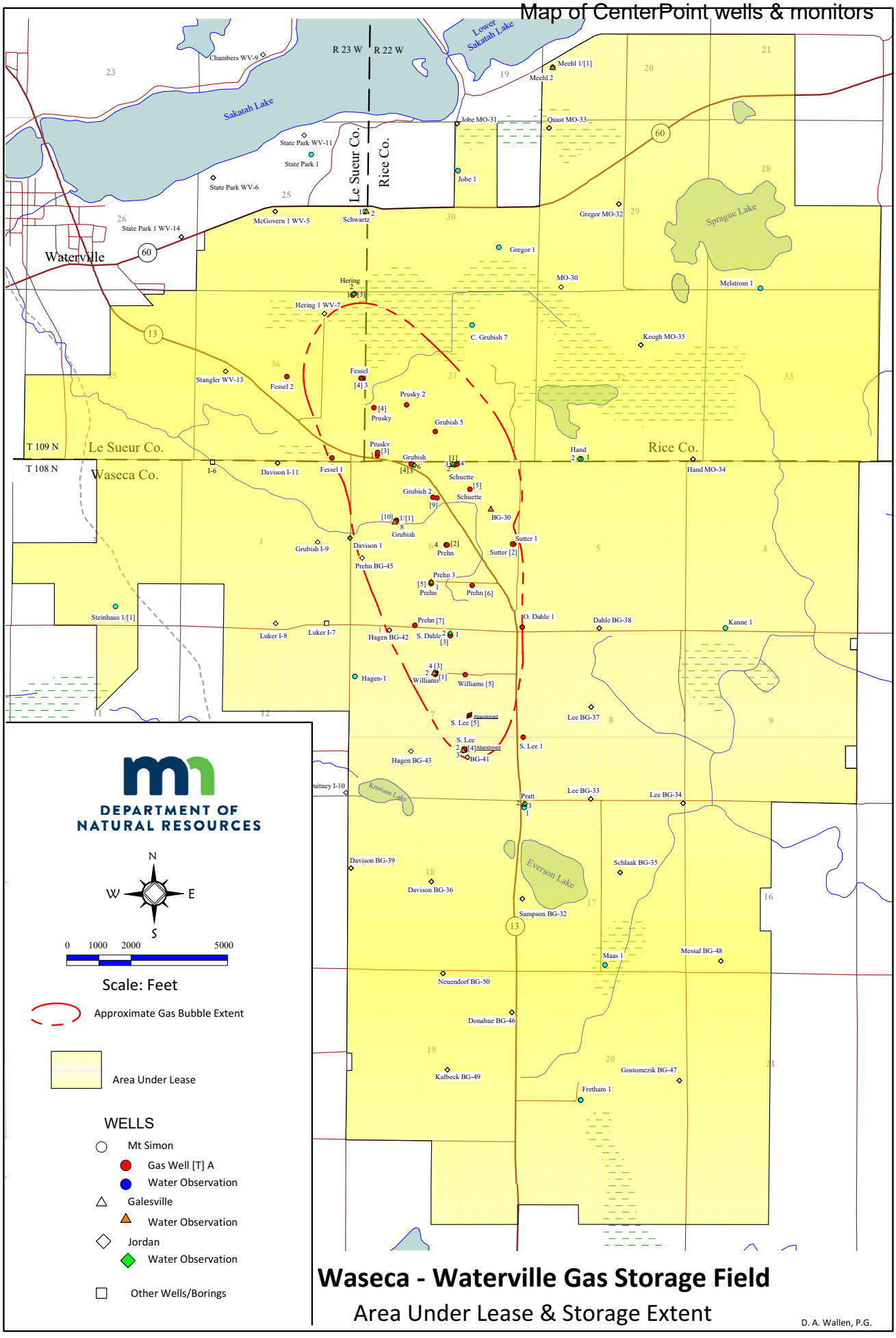

Waseca - Waterville Gas Storage Field

Area Under Lease & Storage Extent

D. A. Wallen, P.G.

STATE OF MINNESOTA
DEPARTMENT OF CONSERVATION

In the Matter of the Application of
Minneapolis Gas Company for a Permit
To Displace Underground Waters in
Consolidated Formations by the Under-
ground Storage of Natural Gas Under
Pressure (P.A. 67-962)

PERMIT

Upon the application of the Minneapolis Gas Company, and pursuant to the Findings, Conclusions, and Order thereon made by the Commissioner of Conservation on August 16, 1968, after due investigation, hearing, and consideration as provided by law, there is hereby granted to the Applicant a permit to displace underground waters by the underground storage of gas under pressure in the Mount Simon member of the Dresbach formation which underlies the Towns of Iosco and Blooming Grove in Wascea County, the Town of Waterville in Le Sueur County, and the Town of Morristown in Rice County subject to the following conditions and restrictions:

1. The Permittee, before injecting gas under this permit, shall file the following with the Commissioner of Conservation:
(a) A list of both the property included within any proposed storage contour and within any reasonable property buffer zone required by the Commissioner extending beyond any proposed storage contour; and (b) evidence of the Permittee's right to use such property. Storage contours referred to in this permit are those described on Commissioner's Exhibit "J", Structure Map – Mount Simon "A" Zone, a copy of which is attached, or any revised structure map approved by the Commissioner. Upon satisfactory completion of the filing requirements of this paragraph, a Certificate of Use hall be issued to the Permittee pursuant to the provisions of Minnesota Statutes, Section 84.62.

2. The Permittee shall maintain in force liability insurance in an amount fixed by the Commissioner, not less than $20,000,000 to cover all types of business liability, including any damages for which it might become liable as a result of its operation of the gas storage reservoir described herein. The Permittee shall supply the Commissioner with a certificate of insurance from a company authorized to do business in Minnesota certifying that such a policy is in effect, the period for which it is in effect, and that the insurer will notify the Commissioner of its alteration, cancellation, or termination, at least 30 days before alteration, cancellation, or termination. The Permittee also shall notify the Commissioner of any alterations, cancellation, or termination of the policy at least 30 days before alteration, cancellation, or termination. Not less than thirty days before the expiration of a policy required by this paragraph, the Permittee shall renew the insurance and supply the Commissioner with a certificate of insurance required by this paragraph.

3. Wells shall be completed in a manner satisfactory to the Commissioner so as to minimize the possibility of mechanical leakage of gas. Standard oil field techniques and equipment, and high quality cement shall be used in well completion. Cement bond logs for all wells in the storage formation shall be furnished to the Commissioner.

4. The Permittee, before injecting gas under this permit within any proposed storage contour, shall test all known water wells within the proposed storage contour for the presence of combustible gas. The Permittee also shall test a representative sample of all known water wells within a one mile buffer zone beyond any proposed storage contour for the presence of combustible gas. These wells shall be tested once each week for a period of three months after the start of gas injection and once every two weeks for the next three months. Thereafter, if conditions remain normal, the number of wells tested may be reduced and the tests may be reduced to twice per year, unless the Commissioner directs otherwise in writing. If the Permittee injects gas beyond a storage contour within which all known water wells have been previously tested, all known water wells beyond the previous storage contour but within a proposed new storage contour shall be tested as required above, except for the original sample taken in any buffer zone beyond any previous storage contour. The Permittee, when injecting gas beyond a previous storage contour, also shall test a representative sample of all known water wells within a one mile buffer zone beyond any proposed new storage contour. At the request of the Commissioner and with the consent of any affected property owner, the Permittee shall vent any well or well housing which might serve to create a hazardous condition if any gas should escape to the surface.

5. Until otherwise directed by the Commissioner in writing, the Permittee shall operate and maintain continuous fluid level recorders on its Jordan, Galesville, and Mount Simon wells at or in the immediate area of the Waseca-Waterville Field which it does not use for the injection or withdrawal of natural gas and at such other observation wells as the Commissioner may require. Beginning at least ten days before gas is first injected at the Waseca-Waterville Field, and continuing for the first two months after gas is first injected, the Permittee shall check and read all of these recorders at least once each twenty-four hour period. After the first two months of gas injection, the Permittee shall check and read these recorders at least once each seven-day period. The Permittee shall maintain a recording barometer at a point, indoors or outdoors, no farther away from the Waseca-Waterville Field than Waterville, Minnesota, until otherwise directed by the Commissioner in writing. The Permittee shall furnish the Commissioner, at least once each month, a copy of all fluid level recorder charts and a graph or graphs showing fluid levels as measured by the recorders referred to above and the barometric pressure reading for the area of the Waseca-Waterville Field at a given hour each day

6. During reservoir operations, the Permittee shall not maintain any pressures in the storage reservoir in the Mount Simon during injection, storage, or withdrawal in excess of 405 pounds per square inch gauge without the approval of the Commissioner. During the first two months after the start of gas injection, gas pressure at the bottom of any injection well shall not exceed 331 pounds per square inch gauge in the Mount Simon “A” sand, except that such

pressure may be increased, after seven days of injection, to not more than 341 pounds per square inch gauge if necessary to obtain injection at the rate of one million standard cubic feet of gas per day. Two months after the start of injection, such pressure may be increased to not more than 356 pounds per square inch gauge. Six months after the start of injection, such pressure may be increased to not more than 381 pounds per square inch gauge. Nine months after the start of injection and thereafter, such pressure may be increased to not more than 406 pounds per square inch gauge. If operating experience indicates that higher pressures are safe, the Commissioner may authorize in writing injection pressures in excess of 406 pounds per square inch gauge. The Permittee shall maintain accurate records of gas insertion pressures and shall submit such records in writing to the Commissioner at least once each month and at such other times as the Commissioner may request.

7. No gas shall be injected by the Permittee in excess of the following limitations: (a) A maximum of five billion cubic feet in storage for the initial injection, subject to the further limitation that initially injected gas shall remain within the +170 foot storage contour, as described on Commissioner's Exhibit "J", or any revised structure map approved by the Commissioner, except on the steep west flank where it is recognized that gas may reach levels below the +170 foot storage contour during initial injection; (b) Injections subsequent to the initial injection shall be in such volumes, within such storage contours, and subject to such conditions as the Commissioner, in his discretion, determines in writing. Before any injections subsequent to the initial injection and at the request of the Commissioner, the Permittee shall perform additional tests as the Commissioner shall require and shall furnish the Commissioner with such additional information, data, and reports as the Commissioner may require. On the Commissioner's own motion a hearing may be held, or, at the request of the Permittee or any other party in interest a hearing shall be held, in regard to any subsequent injection. Notice of the Commissioner's written determination in regard to any subsequent injection, whether or not a hearing is held, shall be published and mailed in the same manner as provided for the publication and mailing of the Findings, Conclusions, and Order in this matter.

8. Until otherwise directed by the Commissioner in writing, the Permittee shall test with a combustible gas meter, at least once each seven-day period, its Jordan, Galesville, and Mount Simon deep wells at the Waseca-Waterville Field which it does not use for injection or withdrawal of natural gas, and at any other observation wells required by the Commissioner, and shall maintain records of these test.

9. The Permittee shall promptly report to the Commissioner any escaped natural gas discovered above the Eau Claire and shall stop gas injection, except where such escape is related to minor mechanical leakage at an injection or withdrawal well, and shall take all necessary precautions to avoid or minimize hazards to persons and property which may result therefrom. If the static water level in any observation well in any stratum above the Eau Claire, corrected for barometric pressure, rises one-half foot or more in a month, and such rise is in direct correlation with the operations, the Permittee shall stop gas injection, notify the Commissioner, take all prudent steps to determine the cause of such rise, and take appropriate corrective measures. If the Commissioner determines that the operation of the field constitutes

a hazard to the public for any reason, the Permittee shall take such precautions, including but not limited to the stopping of injection and withdrawal, as the Commissioner may require. Gas injection may be resumed only with the Commissioner's consent after being stopped under the provisions of this paragraph for any reason.

10. The Permittee shall maintain accurate records of gas injections into and withdrawals from this project area so as to make readily ascertainable the total approximate volume of natural gas, whether recoverable or nonrecoverable, in the project area at any time and shall report such volume in writing to the Commissioner at least once each month and at such other times as the Commissioner may request in writing.

11. The Permittee shall grant the Commissioner and his authorized representatives access to the project and to records relating to the operation and maintenance of the project at all reasonable times for the purpose of inspecting the operations authorized by this permit.

12. The Permittee shall at all times conduct its operations and maintain its facilities and equipment in accordance with standard practices followed in the operation and maintenance of aquifer storage reservoirs and in such a manner as to permit the owners of the lands lying within the boundaries of the proposed storage area or persons claiming under them, or the owners of minerals thereunder or those claiming under them, who are entitled to exercise such rights, to explore or, drill or, produce or develop for the recovery of oil or gas or minerals under said lands, or to drill wells on said lands for the development and production of water in accordance with the requirements of the Commissioner issued for the purpose of protecting underground storage strata or formations against pollution and against the escape of gas therefrom.

13. In all cases where the doing by the Permittee of anything authorized by the permit shall involve the taking, using, or damaging of any property, rights or interests of any other person or persons, or of any publicly owned lands or improvements thereon or interests therein, the Permittee, before proceeding therewith, shall obtain the written consent of all persons, agencies, or authorities concerned, and shall acquire all property, rights, and interests necessary therefore.

14. The Permittee shall take such precautions as are necessary to avoid undue or unreasonable interference with normal agricultural pursuits and with private property or interests therein not owned by the Permittee in the propose storage area and to protect any public resources of the state which may be adversely affected.

15. The Permittee shall do all things reasonably necessary in the judgment of the Commissioner or other agency having jurisdiction, to minimize and control any objectionable odor resulting from the operation of the project under this permit.

16. This permit shall not release the Permittee from any liability or obligation imposed by applicable provisions of Minnesota Statutes or local ordinances relating thereto and shall

remain in force subject to all conditions now or hereafter imposed by law or this permit. This paragraph is not intended to determine the applicability to the Permittee, or its operations under this permit, of any law or ordinance.

17. Without limiting the provisions of paragraph 16, the Permittee shall comply with all laws relating to air and water pollution and all requirements of the Minnesota Pollution Control Agency and the Minnesota Department of Health.

18. The Permittee shall notify the Commissioner of its intention to abandon, or abandonment of, the project authorized by this permit. If it abandons the project, the Permittee shall discontinue operations using standard procedures followed in the abandonment of aquifer storage reservoirs, including but not limited to the capping of injection and withdrawal wells. At the request of the Commissioner the Permittee shall execute and file with the Commissioner a corporate surety bond to the State of Minnesota, approved by, and in an amount fixed by, the Commissioner, conditioned for the faithful performance of duties required by this paragraph. The Commissioner, when he is of the opinion that any bond given by the Permittee under this paragraph is inadequate for the purposes set forth in this paragraph, may require the Permittee to give additional bond in such amount as the Commissioner may require. Not less than ninety days before the expiration of any bond supplied under this paragraph, the Permittee shall renew the bond required by this paragraph unless the Commissioner determines that the bond is no longer required.

19. This permit is not assignable or transferable except with the written consent of the Commissioner.

20. Upon written notice to the Permittee, this permit may be suspended by the Commissioner at any time he deems it necessary for the safety of the pubic or for violation of any of the provisions of this permit. The suspension is effective on or after delivery of notice to the Permittee. The basis for any suspension shall be stated in the notice. Upon written notice to the Permittee, this permit may be terminated by the Commissioner at any time he deems it necessary for the safety of the pubic or for violation of any of the provisions of this permit. The termination is effective 30 days after delivery of notice to the Permittee, unless within this 30-day period the Permittee requests a hearing on the termination. The basis for termination shall be stated in the notice. The Commissioner shall grant the Permittee a hearing if so requested. If, after hearing, the Commissioner affirms his order terminating the permit, the termination takes effect 30 days after delivery of the affirming order to the Permittee.

21. This permit is permissive only. No liability shall be imposed upon or incurred by the State of Minnesota or any of its officers, agents, or employees, officially or personally, on account of the granting hereof or on account of any damage to any person or property resulting from any act or omission of the Permittee or any of its agents, employees, or contractors relating to any matter hereunder. This permit shall not be construed as estopping or limiting any legal claims or right of action of any person against the Permittee, its agents, employees, or contractors, for any damage or injury resulting from any such act or omission, or as estopping

or limiting any legal claim or right of action of the state against the Permittee, its agents, employees, or contractors for violation of or failure to comply with the provisions of the permit or applicable provisions of law.

Dates at Saint Paul, Minnesota, this 16th day of August, 1968.

JARLE LEIRFALLOM
Commissioner of Conservation

ROBERT L. HERBST, Referee and
Deputy Commissioner of Conservation

Attachment A - DNR Response
Map of CenterPoint wells & monitors

STATE (
MINNI CQ>u
DEPARTMENT OF NATURAL RESOURCES

PHONE: 296-2549

October 6, 1978

Mr. Paul W. Kraemer, President
Minnesota Gas Company
733 Marquette Ave.
Minneapolis, Minnesota 55402

Dear Mr. Kraemer:

UNDERGROUND GAS STORAGE PROJECT AT WASECA/WATERVILLE

Pursuant to Minnesota Statutes 1976, Sections 84.57 to 84.62 and in accordance with 6 Minnesota Code of Agency Rules, Section 1.5000, permit P.A. 67-962, issued on August 16, 1968 to the Minneapolis Gas Company, is hereby amended to include a fee schedule as specified in the attachments, Permit Amendment Number One, and the corresponding regulation, 6 MCAR g 1.5000.

In accordance with this amendment, you will be receiving a billing in the near future for the actual costs of field inspection and monitoring activities conducted from August 15, 1974, the effective date of the regulations to the present. Thereafter, billings will be submitted on a regular basis.
Sincerely,

Steven G. Thorne, Deputy Commissioner
Department of Natural Resources

Encs.
cc: Larry Seymour
Charles Applequist
Philip Olfelt
Wayne Olson

PERMIT AMENDMENT NUMBER ONE

The following Provision 22 is hereby amended to the permit P.A. 67-962:

Provision #22

Field Inspection Fees and Fees for Monitoring Activities shall be charged by the Commissioner to the Permittee in accordance with 6 Minnesota Code of Agency Rules, Section 1.5000, as now existing or as hereafter modified, effective beginning August 15, 1974. Fees to be charged shall include field inspection fees as provided in Section G and monitoring activity fees as provided in Section H.

The procedures and scope of field inspection and monitoring include, but are not limited to, the following activities when they are performed by the State officers or employees or by State consultants hired for the project:

1. Periodic field collection of water samples for various types of laboratory analysis;

2. Periodic field inspection for monitoring and verifying those activities that are monitored by the permittee;

3. Routine checking of water wells, farm basements, etc., for detection of combustible gas;

4. Field inspection and monitoring of observation wells for determination and checking of water levels;

5. Field inspection and monitoring of pumping tests;

6. Field inspection and monitoring of observation and production well construction, reworking, tubing, modification, etc.

7. Field inspection and monitoring of well logging applications for new and existing wells;

8. Field inspection and monitoring of surface areas for detection of leakage gas;

9. Periodic monitoring of special areas, activities or problem areas as deemed necessary by the Commissioner;

10. Other monitoring of water or related land resources related to the project and determined by the Commissioner to be necessary;

11. Laboratory chemical analysis of water samples for water quality determinations;

12. Laboratory gas chromatography for analysis of water samples to determine presence and concentration of dissolved hydrocarbons;

13. Other laboratory analyses as required by the Commissioner;

14. Laboratory techniques and methodology necessary in the development and/or modification of specialized equipment and techniques required by the Commissioner;

15. Record keeping and data tabulations, graphing, comparison, review and analysis;

16. Review, analysis and preparation of progress reports and project related correspondence;

17. Meeting and conferring with consultants hired by the State in regard to monitoring and inspection of the project and areas of special problems or concerns;

18. Preparation of testimony, exhibits and other materials necessary for public meetings and hearings required by the Commissioner and/or Minnesota Statutes;

19. Participation in meetings and conferences relating to the specific project.

Fees are payable by the permittee within 30 days of receipt of billings, and payment shall be in the form of check or money order payable to the State Treasurer. Failure to pay fees within the allotted time is grounds for suspending the permit, or for taking other legal actions as required.

Dated at St. Paul, Minnesota, this 6th day of October, 1978.

Steven G. Thorne
Deputy Commissioner of Natural Resources

MINNEGASCO'S WASECA-WATERVILLE UNDERGROUND GAS STORAGE PROJECT

Attached for your information is the Order of the Commissioner of Natural Resources allowing Minnegasco to increase, in staged increments, its underground gas storage inventory in the Waterville area to 10 billion cubic feet. Water levels in monitoring wells also have been amended to reflect experience in operating the reservoir.

Along with the Order, a press release is attached for your information.

Sincerely,

JOSEPH N. ALEXANDER
Commissioner

STATE OF MINNESOTA
DEPARTMENT OF NATURAL RESOURCES

ORDER AMENDING MINNESOTA GAS COMPANY'S
PERMIT RELATING TO UNDERGROUND GAS STORAGE
IN THE WATERVILLE AREA (P.A. 67-962)

WHEREAS, under the authority of Minnesota Statutes, Sections 84.57 to 84.62, the Minneapolis Gas Company (now the Minnesota Gas Company) was issued a Permit (P.A. 67-962) by the Commissioner of the Department of Conservation (now the Department of Natural Resources) on August 16, 1968, to store natural gas underground by displacement of underground waters in the Mt. Simon geologic formation, approximately 800 feet below the surface of the soil, within approximately 8,400 acres in the Towns of Iosco and Blooming Grove in Waseca County, the Town of Waterville in LeSueur County, and the Town of Morristown in Rice County, which Permit was issued pursuant to Findings, Conclusions, and Order dated August 16, 1968, following public hearings held September 22, 1967, and June 25, 1968; and

WHEREAS, the geologic structure comprising the underground storage reservoir was determined at that time to have a potential capacity for the storage of 29 billion cubic feet of gas within the plus 140 foot storage contour of the structure, but the initial injection of gas was limited by the Permit to 5 billion cubic feet of gas in storage, which limit was first reached in the fall of 1974; and

WHEREAS, the Permit also provided that injections of gas for storage beyond 5 billion cubic feet of gas would be allowed only after such additional testing as required by the Commissioner had been concluded to his satisfaction and also after submission by the Minnesota Gas Company of such additional information, data, and reports as required by the Commissioner; and

WHEREAS, tests have been concluded by the Minnesota Gas Company to the satisfaction of the Commissioner and additional information, data, and reports required by the Commissioner have been submitted by the Minnesota Gas Company; and

WHEREAS, in addition to the above, tests have been conducted and information acquired by the Department of Natural Resources independently of the Minnesota Gas Company; and

WHEREAS, the Minnesota Gas Company has made requests to the Commissioner to increase the maximum allowed inventory of gas beyond 5 billion cubic feet, the most recent of which requested a staged increase to 10 billion cubic feet of gas in storage; and

WHEREAS, two public hearings have been held (April 20, 1972, and October 2, 1978) in connection with requests for the increase of gas storage in inventory, which hearings were not

required by law but were convened by the Commissioner to inform the public of the on-going operation and monitoring of the gas storage project;

NOW, THEREFORE, IT IS HEREBY ORDERED that Permit P.A. 67-962, issued on August 16, 1968, and first amended on October 6, 1978, is amended as follows:

(PERMIT AMENDMENT NUMBER TWO)

Add the following at the end of Paragraph 7;

"(c) Injections subsequent to the initial allowed storage inventory of 5 billion cubic feet shall be staged substantially as follows: When approximately but not to exceed 7 billion cubic feet of gas is in storage, and before proceeding with additional injections, the Permittee shall demonstrate to the satisfaction of the Commissioner (within the terms of the Permit, applicable Use Certificates, and any other limitations established by the Commissioner) that 2.2 billion cubic feet of gas has been withdrawn from storage and reinjected into storage within twelve consecutive months after a withdrawal season has commenced. When approximately but not to exceed 9 billion cubic feet of gas is in storage, and before proceeding with additional injections, the Permittee shall demonstrate to the satisfaction of the Commissioner (within the terms of the Permit, applicable Use Certificates, and any other limitations established by the Commissioner) that 3.1 billion cubic feet of gas has been withdrawn from storage and reinjected into storage within twelve consecutive months after a withdrawal season has commenced. Total gas in storage may not exceed a maximum of ten billion cubic feet."

(PERMIT AMENDMENT NUMBER THREE)

Amend the second sentence of Paragraph 9 to read as follows:

"If the static water level in any observation well in any stratum above the Eau Claire, corrected for barometric pressure, rises four feet or more in an injection season, and such rise is in direct correlation with the operations, the Permittee shall stop gas injection, notify the Commissioner, take all prudent steps to determine the cause of such rise, and take appropriate corrective measures."

IT IS FURTHER ORDERED that this order be published and mailed in the same manner as provided for the publication and mailing of the Findings, Conclusions, and Order in this matter.

Dated at Saint Paul, Minnesota, this 19 day of March, 1980.

JOSEPH N. ALEXANDER
Commissioner of Natural Resources

STEVEN G. THORNE, Referee and
Deputy Commissioner of Natural Resources