

BEFORE THE ENERGY FACILITY SITING COUNCIL
OF OREGON

In the Matter of the Application)
Of Oregon Natural Gas Development)
Corporation to Amend its Mist) Docket No. _____
Underground Storage Facility Site)
Certificate Agreement)

APPLICATION
TO AMEND SITE CERTIFICATE

Oregon Natural Gas Development Corporation (Oregon Natural) hereby applies to the Energy Facility Siting Council (Council), pursuant to Part VII of the Mist Underground Storage Facility Site Certificate Agreement (Certificate) for authority to amend the Certificate by expanding the related or supporting facilities for the Mist Project with the addition of one monitoring well to those shown on Appendix 1 of the Certificate and to conform Appendix 1 to reflect such addition.

I. Introduction

Pursuant to Part V of the Certificate, Oregon Natural is required to seek an amendment to the Certificate if it intends to add facilities to the Mist Project not now shown in Appendix 1 to or identified in Part II of the Certificate.

This application proposes the addition of a seventh monitoring well to the Mist Project. When the Mist Project was initially designed, Oregon Natural anticipated the need for six monitoring wells, three associated with each of the storage reservoirs. This additional well will be used in conjunction with the Bruer reservoir, the southern most reservoir in the Mist Project.

Further, pursuant to Part VI of the Certificate, Oregon Natural has filed a conditional use permit application with Columbia County to drill the subject monitoring well. A copy of the county's application is attached to this application as Exhibit No. 1.

II. Justification

Oregon Natural's understanding of the characteristics of the storage reservoirs is continuing to expand. With the addition of each new well within the parameters of the Mist Project and the new seismic data of the Mist area, a clearer picture of the reservoirs is developing.

When the Mist Project was initially designed, the known data indicated that the Bruer reservoir was restricted by two faults. The data also indicated that the spill-point of the reservoir, the point at which the gas would flow out of the bottom of the reservoir when filled beyond capacity,

would be in the west side of the reservoir in conjunction with the interpreted location of a north/south fault.

The drilling of the authorized monitoring well on the west side of the Bruer reservoir and seismic data secured from ARCO now indicates that the north/south fault is further west than initially indicated and is interpreted to be oriented north/northwest and in all likelihood does not form the western boundary of the reservoir. As a result of the additional information, it now appears that the east/west fault, which is the known southern boundary of the Bruer reservoir is not of the magnitude as originally interpreted and that the spill point of the reservoir may occur along it. As the water level in the Bruer reservoir declines, futures injections could reintroduce gas down to the anticipated spill-point on the south side of the reservoir. To monitor the the aquifer activity in this area, the installation of a monitoring well south of the southern boundary of the reservoir is required.

III. Proposed Amendments

Oregon Natural is requesting authorization to add a seventh monitoring well as a related or supporting facility to the Mist Project. The designation of this new monitoring well is shown on Exhibit No. 2 to this application.

Appendix 1 of the Certificate should be conformed to reflect the addition of this new monitoring well. This can be accomplished by substituting Exhibit No. 2 of the application for Appendix 1 of the Certificate.


IV. Public Health, Safety or Welfare

The proposed amendment to the Certificate does not present a danger to the public health, safety or welfare under the provisions of Part VII(A) of the Certificate. The review of the proposed amendment should be addressed under the provisions of Part VII(F) of the Certificate.


WHEREFORE, Oregon Natural Gas Development Corporation respectfully requests that the Energy Facility Siting Council enter an Order granting this amended application.

DATED at Portland, Oregon this 24th day of March, 1988.

OREGON NATURAL GAS DEVELOPMENT CORPORATION



Charles E. Stinson
Vice President



Robert M. Johnson
of Attorneys for Oregon Natural Gas
Development Corporation

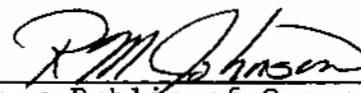
STATE OF OREGON)
) ss
COUNTY OF MULTNOMAH)

Charles E. Stinson, being duly sworn, deposes and says that he is a Vice President of Oregon Natural Gas Development Corporation, the Applicant named in the foregoing application; that he has read the application; including the exhibits thereto; knows the content thereof, and that the same are true to the best of his knowledge and belief.



Charles E. Stinson
Vice President

SUBSCRIBED AND SWORN before me this 24th day of
March, 1988.



Notary Public of Oregon
My commission expires: 10-8-89

STATE OF OREGON
 DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 910 State Office Building Portland, Oregon 97201

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

(To be accompanied by a \$100 permit fee, a surety bond conditioned as provided by law, and evidence of mineral rights ownership or lease). This application becomes a permit to drill when signed and dated by DOGAMI in box below.

In compliance with rules and regulations pursuant to CRS 520, application is hereby made for permit to drill:

(a gas well)
 (an oil well) to be known as Oregon Natural Gas Development ONGD OM 43B-10
 (Company or Operator) (Lease) (Well No.)

In SE 1/4 of Sec. 10, T. 6N, R. 5W W.B.&M Directional? No X Yes

Survey Coordinates: From S.E. corner, Section 10; north 2000' and west 900'

Wildcat: _____ (or) Field Name: Mist - Underground Storage County Columbia

Elevation of ground above sea level is 750 feet. All depth measurements are taken from
Kelly Bushing, which is 11.4 feet above ground.

Lessor (Mineral Owner): Oregon Natural Gas Development

Address: 220 N. W. Second Avenue Portland, Oregon 97209

Surface Owner: Longview Fibre Company

Address: P. O. Box 667 Longview, Washington 98630

Lessee: Oregon Natural Gas Development

Address: 220 N. W. Second Avenue Portland, Oregon 97209

We propose to use the following strings of casing and to land or cement them as herein indicated:

Size of Hole	Size of Casing	Weight in Pounds Per Foot	Grade/Type	Depth	Amount of Cement
12 1/2"	8 5/8"	32.0	K-55	450'	370 sx
7 7/8"	5 1/2"	15.5	N-55	3,000'	500 sx

Geologic Objectives Clark and Wilson Sand

Proposed Depth 3,000' Company/Operator Oregon Natural Gas Development

DOGAMI approved _____, 19____

By _____

Signature _____

Position Field Operations Superintendent

Date _____

SEND WELL COMMUNICATION TO:

Name Todd Thomas

Address 220 N. W. Second Avenue

Portland, Oregon 97209

Phone 220-2573 (Day) 359-4956 (Night)

NOTE: (1) Issuance of this permit is not a finding of compliance with the Statewide Planning Goals or the acknowledged comprehensive plan. (2) Permit expires one year from date of issue. (3) Land use approval must be obtained from the county or city in which the drill takes place. (4) Unless specifically exempted, permittee is obligated to comply with all current applicable statutes and rules including those adopted after permit issuance.

COLUMBIA COUNTY LAND DEVELOPMENT SERVICES
Planning Division
Courthouse, St. Helens, Oregon 97051

397-1501

- | | |
|--|---|
| <input type="checkbox"/> Zone Change | <input type="checkbox"/> Non-Conforming Use |
| <input checked="" type="checkbox"/> Conditional Use Permit | <input type="checkbox"/> Variance |
| <input type="checkbox"/> Planned Development | <input type="checkbox"/> Temporary Use Permit |
| <input type="checkbox"/> Willamette River Greenway Permit | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Exception | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Special Review Permit | |

Name of applicant or agent: OREGON NATURAL GAS DEVELOPMENT CORPORATION

Mailing Address: 220 N. W. SECOND AVENUE Phone: Office 220-2573
PORTLAND, OREGON 97209 Home 359-4956

Location or County Road _____ Total Acreage _____

Tax Account Number _____ Township 6N Range 5W Section 10 SE 1/4

List other contiguous property under your ownership: _____

1. Proposed use(s), sequence of construction, anticipated timetable for project, and specific reason for the request:

DRILLING OF GAS WELL FOR OBSERVATION AND MONITORING OF
UNDERGROUND GAS STORAGE FIELDS.

SEE EXHIBIT 'A'

WELL SITE OM 43B-10 LONGVIEW FIBRE - SURFACE OWNERSHIP

2. Present use of the property: FOREST LAND

3. Method of sewage disposal: _____

4. Water Supply: Well _____ Community _____ Other _____

5. Has Subsurface Sewage Department approved this request? Yes _____ No X
Not Consulted X

6. Total employees and/or occupants: Present _____ Proposed _____

7. Present Zoning PRIMARY FOREST LAND

I hereby certify the statements contained herein, along with the evidence submitted, are in all respects true and correct to the best of my knowledge and belief.

Date Applicant or Agent

For Office Use Only

Receipt No. _____ Fee _____ Date Received _____
Hearing Date _____ Staff Member _____
Present Zoning _____

NOTE: Attach accurate and detailed plot plan indicating such items as property lines, dimensions, and all existing and proposed facilities, etc.

COLUMBIA COUNTY LAND DEVELOPMENT SERVICES
Planning Commission Division
Courthouse, St. Helens, Oregon 97051
Phone: 397-1501

CONDITIONAL USE PERMIT FACT SHEET

Please complete the following:

1. What type of use will occur on the property if the conditional use is allowed?

DRILLING WELL TO MONITOR UNDERGROUND GAS STORAGE FIELD.

2. Why is the property in question suitable for this use? LOCATED NEAR GAS

STORAGE FIELD AND COMPATIBLE WITH SURROUNDING AREA.

3. Is the use compatible with surrounding uses? Yes X No

In what way? MONITORING PROCEDURE IS VERY LOCALIZED WITH MINIMAL IMPACT

ON PRESENT USE OF PROPERTY.

4. Will the use affect the existing public facilities or surrounding property or neighbors? NO

5. Will a public need or convenience be met by this use that is not already being met in the general area? YES

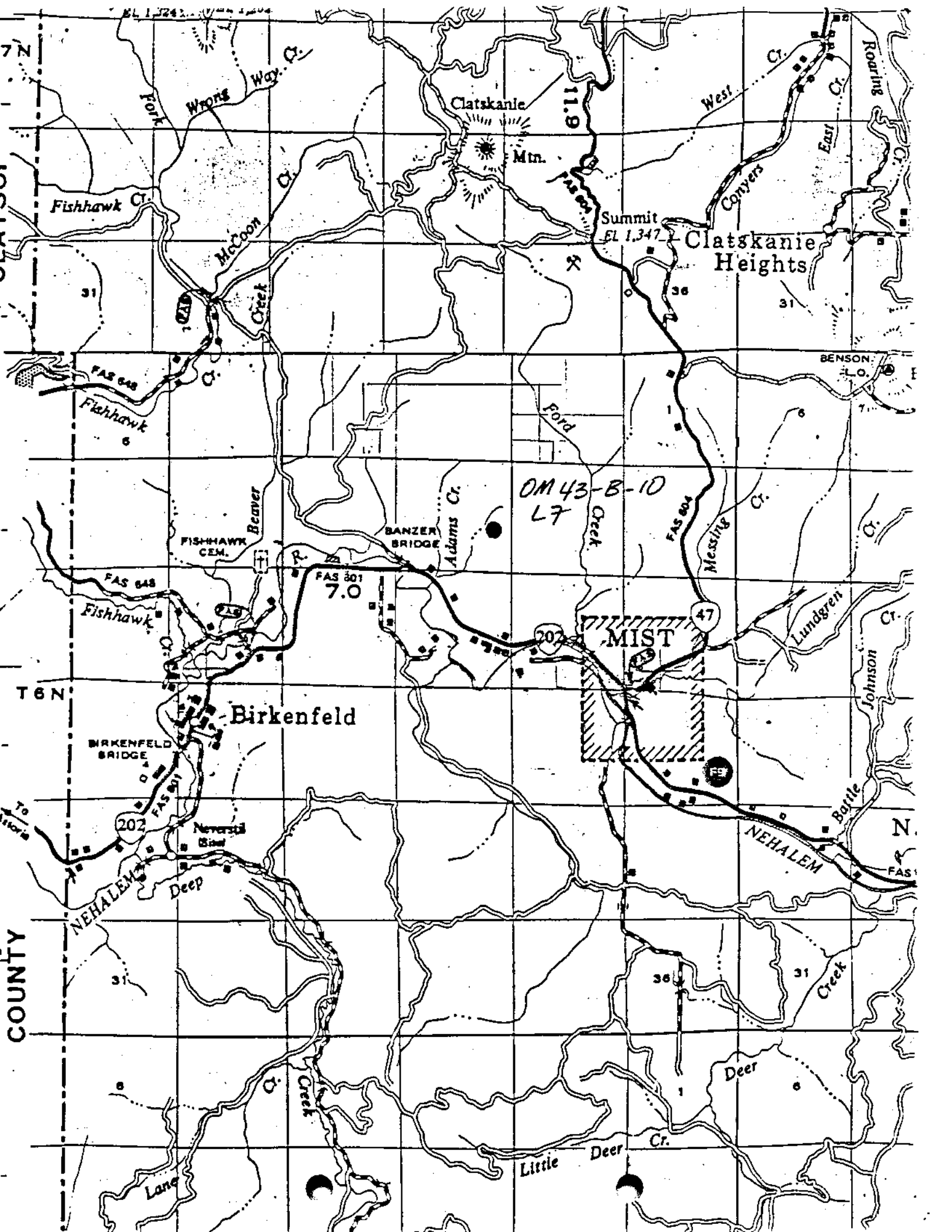
In what way? THIS WELL WILL ASSIST IN THE OPERATION OF THE MIST UNDERGROUND

STORAGE FIELDS WHICH WILL CONTRIBUTE TO PROVIDING AN ENERGY SOURCE FOR THE

AREA'S FUTURE DEMANDS.

The applicant must submit the following 35 DAY PRIOR to the Planning Commission hearing regularly scheduled for the 1st Monday of each month.

1. Answers to the above questions.
2. The application form attached.
3. Vicinity map.
4. One hundred and twenty-five dollar (\$125.00) fee



EL. 1,347

7 N

Fishhawk Cr.

Wrong Way Cr.

Clatskanie Mtn.

11.9

West Cr.

East Cr.

Summit
EL. 1,347

Clatskanie Heights

31

36

31

BENSON
L.O.

FAS 648

Fishhawk

Ford

OM 43-B-10
L7

FISHHAWK
CEM.

BANZER
BRIDGE

Adams Cr.

FAS 804

Messing Cr.

FAS 648

Fishhawk

FAS 301
7.0

202

MIST

47

Lundgren

Cr.

6 N

Birkenfeld

BIRKENFELD
BRIDGE

NEHALEM

Deep

202

Neversil Sier

NEHALEM

Battle

NEHALEM

COUNTY

31

36

31

Lane

Creek

Little Deer Cr.

Deer

Creek

N

FAS

