BEFORE THE ENERGY FACILITY SITING COUNCIL OF THE STATE OF OREGON

| In the Matter of the Amendment |) | |
|-----------------------------------|---|------------------|
| of the Underground Storage |) | APPLICATION FOR |
| Facility Site Certification |) | |
| Agreement Between the State of |) | SITE CERTIFICATE |
| Oregon Acting By and Through its |) | |
| Energy Facility Siting Council |) | AMENDMENT |
| and Northwest Natural Gas Company |) | |

APPLICATION FOR SITE CERTIFICATE AMENDMENT

Northwest Natural Gas Company ("NNG") hereby applies to the Energy Facility Siting Council ("EFSC" or "Council"), pursuant to Parts V and VII of the Mist Underground Storage Facility Site Certificate Agreement ("Certificate"), as amended, for authority to amend the Certificate to add four injection/withdrawal wells, two of which are replacements for nonfunctioning or marginal injection/withdrawal wells and two of which are additional injection/withdrawal wells.

I. INTRODUCTION

The Certificate for underground storage of natural gas at the Mist site was issued by the Council on September 30, 1981 to Oregon Natural Gas Development Corporation ("ONG"), a subsidiary of NNG. The assets of the Mist storage project were transferred from ONG to NNG effective April 11, 1988, subsequent to approval by the Oregon Public Utility Commission. (OPUC Order 88-375, Docket UP 38). Therefore NNG is the entity applying for this Amendment. By its terms the Certificate contemplated this

transfer and applies equally to NNG and ONG: "Any reference herein to ONG shall also include NNG". Certificate, p. 1.

The Certificate was granted after public hearings pursuant to ORS 469. It approved construction and operation of an underground storage facility for natural gas in the Flora and Bruer reservoirs and related facilities.

Two amendments have been made to the Certificate:

Amendment No. 1, executed on October 29, 1987, extended the

construction time for the project. In addition, Amendment No. 1

states as follows at Part V.1 of the Certificate:

"It is agreed by ONG and EFSC that construction or replacement of any monitoring well, injection/withdrawal well, pipeline or gathering line * * * shall require an amendment of this agreement as provided in Part VII below." Amendment 1, Part V.1.

Amendment No. 2, executed on August 2, 1988 added one monitoring well.

II. PERFORMANCE OF INJECTION/WITHDRAWAL WELLS

The completed storage facility began full-scale operations with injection of natural gas during the summer of 1989 and full withdrawal during the 1989/1990 heating season.

One full annual injection withdrawal cycle has now been completed

and the operation is in its second injection cycle.

NNG has examined the results obtained during the first year's experience with the storage project with regard to the performance of the injection/withdrawal wells and system capacity needs. Two improvements are necessary: more reliable withdrawal performance and additional capacity for withdrawal.

III. REPLACEMENT WELLS

There are three injection/withdrawal wells in each of the Flora and Bruer reservoir pools. In each pool, one of the wells has been a "dud": one well in the Flora pool (IW 33d-3) delivers virtually no gas (0.039 million therms or 0.2 percent of the total Flora pool flow in 1989-1990) and one in the Bruer pool (IW 22d-10) performs at a very low rate (1.108 million therms or 4.3 percent of the total Bruer pool flow for the same time period.)

Well IW 33d-3 in the Flora pool encountered a fault zone at the top of the reservoir sand which reduced the thickness of the gas column exposed in the well bore. Subsequent attempts to produce the well have clearly shown that the well is useless for injection/withdrawal. The low production well in the Bruer pool, IW 22d-10, is marginal due to a combination of lower quality reservoir rock and a thin gas column.

NNG now relies heavily on the two producing wells in

each pool. This could result in damage to the producing wells or reservoirs during peak usage periods.

NNG proposes to drill two replacement wells, one in each reservoir. The replacement well in the Flora pool will be drilled to a target 200 feet west of the present bottom hole location of the IW 33d-3. Although on the same well pad as the non-functioning well, we believe this bottom hole location to be out of the fault zone which has interfered with IW 33d-3. The bottom hole location of the replacement well in the Bruer pool will be sited 470 feet east southeast of the marginal 22d-10 well.

The nonfunctioning well in the Flora pool will be retained only as a monitoring well since it produces virtually no gas. We propose to continue use of the marginal well in Bruer, which, along with the replacement well, will contribute to a reliable 80 MMcfd peak day flow in winter 1990-1991. This flow rate, the initial rate planned for the project, cannot be reliably sustained at present because of the two poorly functioning wells.

The original wells and their proposed replacements are identified on Exhibit A. The replacement wells are identified as IW 32c-10 and IW 33ac-3. They will be drilled on sites immediately adjacent to existing well pads.

Timing For Replacement Wells

The replacement wells must be drilled in the fall of 1990 for two reasons. First, the flow from the replacements will be needed to meet peak demand in the 1990-1991 heating season. Second, the optimum time to drill any well in the storage field is at the end of the injection cycle when the reservoir is full. This optimal time is in the late fall, when the reservoir has been injected with gas for use at winter peak days. If the reservoir pressure is too low, mud from the drilling may invade the reservoir sand and create significant risk of formation damage.

IV. TWO NEW WELLS

Two additional wells are proposed for the existing reservoirs. The main purpose of these two wells is to bring the capability of the system to 100 million cubic feet per day ("MMcfd") from the current design of 80 MMcfd. The additional wells will add some flexibility to the system so that it can more easily adjust to peak demands and/or provide a degree of redundancy to minimize any production or mechanical problems in an existing well.

The booming economy in the northwest region has accelerated NNG's peak load requirements. NNG added 11,000 new residential and 2,000 new commercial customers in 1989. We project that the current firm peak day requirement of 580 MMcfd

(the amount required system wide in case of extremely cold weather) may increase by as much as 25 MMcfd annually if the current rate of increase in new customers continues. Thus we propose to expand the Mist system capacity to 100 MMcfd.

The facilities now in place at Mist, including the pipeline to Portland and associated systems, are capable of handling 100 MMcfd, but the current withdrawal capacity even with two successful replacement wells cannot sustain reliability over 80 MMcfd. With the two additional wells, we expect to be able to withdraw sufficient quantities of gas to meet the increasing level of demand using the 100 MMcfd capability of the current reservoirs and associated facilities.

The location of the two new wells is described on the map at Exhibit A to this document. They are identified as IW 23d-3 and IW 13b-11. Both are entirely within the boundaries of the Certificate. These wells will be located on new drill pads. One will be located in a recent clear cut area and the other in trees less than twelve years old. Each site is located adjacent to existing access roads and will be no larger than 200 feet by 250 feet in size.

Timing for Two New Wells

NNG plans to drill the two new wells in 1991.

V. PUBLIC HEALTH, SAFETY AND WELFARE

Pursuant to Section VII F. of the Certificate, amendments which do not affect the public health, safety, and welfare may be granted at a regular Council meeting without public hearings if Company and EFSC agree that the amendment is desirable. The proposed amendment will not adversely affect the public health, safety, or welfare.

NNG has made application for permits for the four wells through the Oregon State Department of Geology, Minerals and Industries; Columbia County conditional use permitting; the Mist Birkenfeld Fire District; and the Oregon Department of Forestry. These applications are attached to this document as Exhibit B.

To the best of NNG's knowledge, the four wells will meet all applicable rules of the State of Oregon and all applicable criteria warranted in the Certificate. The location of the wells as demonstrated on Exhibit A is adjacent to areas in which there are already operating wells and no new access roads will be required. Likewise, the proximity of all four wells to existing wells means that very little new pipe will be needed to connect the new wells to the system.

Vibration Monitoring

Under the Certificate, a vibration monitoring program has been in effect at the Mist site since December 18, 1987.

Under the terms of the program, local residents were given forms to file vibration reports if they believed vibrations to have occurred. Only four such incident reports have been filed, all within the same week in February 1988. The incident was determined to have had the characteristics of an airborne disturbance unrelated to the underground storage operation.

No reports have been submitted since the full operation of the storage area began with the injection of gas in July 1989. Thus full underground storage operations with injection/withdrawal wells have had no vibration impact on the area. There is no reason to expect any different result with the four new wells.

VI. CONCLUSION

Based on the foregoing, NNG respectfully requests that EFSC amend the Certificate in accordance with the attached Exhibit A and pursuant to Section VII F. of the Certificate.

Dated: August 3, 1990

Carla U. Kelley

Assistant Counsel

Northwest Natural Gas Company

lirle 4. Kelley

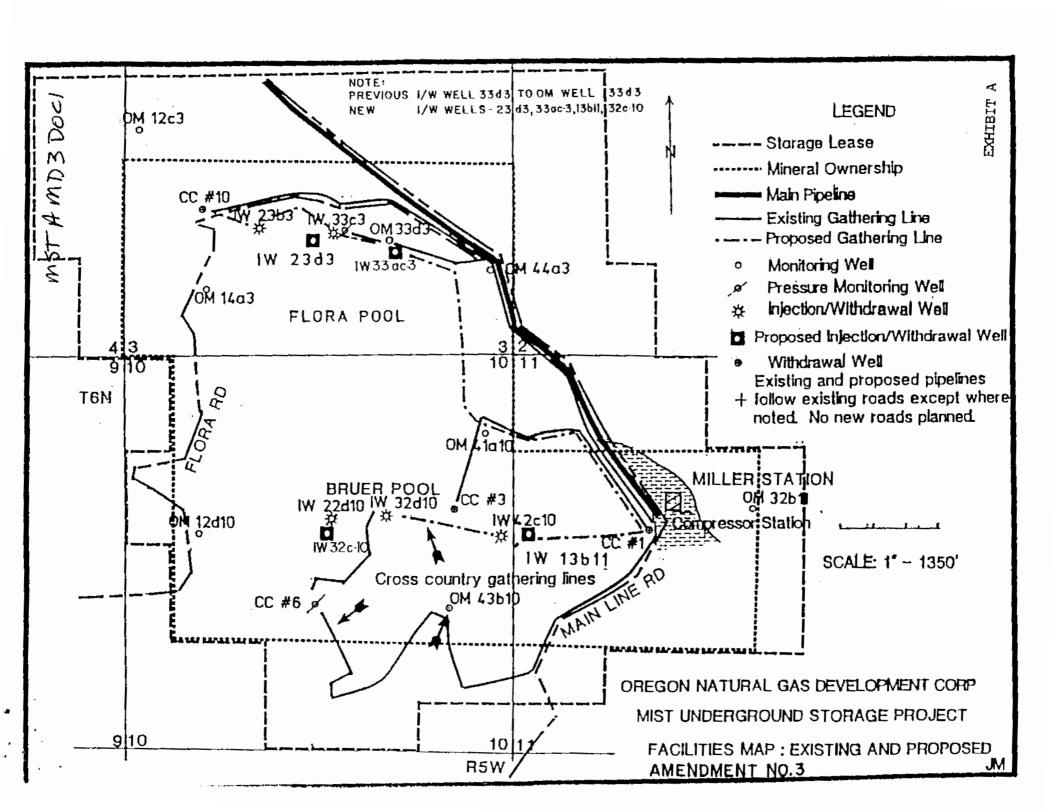


EXHIBIT B

| | <u>Pages</u> |
|---|--------------|
| State of Oregon Department of Geology and Mineral Industries | 1-21 |
| Columbia County Land Development Services | 22-41 |
| Mist-Birkenfeld Rural Fire Protection District | 42-47 |
| Department of Forestry/Application for Permits | 48-51 |

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

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OLG DEDUIT #.

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 complian | ce with rule: | s and regulations pursuar | nt to ORS 520, applicati | on is hereby made | de for permit to drill |
|----------------------------|--------------------|---|--------------------------|-------------------|---|
| (a gas well (an oil wel |) l) to be know | on as <u>Northwest Nat</u> (Company or opera | ural Gas Company | NNG (Lease) | IW 13b- (Well No.) |
| | | | | | tional? No Yes X |
| | | | | | ottom hole location |
| | | Field Name: Mist Und | | | |
| | | | | | taken from |
| | | | | | above ground. |
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| | | Cavenham Fore | | | |
| | | | | | 97064 |
| | | Northwest Nat | | | |
| | | 220 N.W. Seco | | | |
| e propose t | o use the fo | llowing strings of casin | g 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 |
| 17岁" | 13 3/8" | 54.5 | K-55 | 450' | 545 sx |
| 12 ½" | 8 5/8" | 36.0 | K-55 | 2100' | 950 sx |
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| eologic Obj | ectives Cl | ark and Wilson San | d | | |
| | th26 | | | | |
| | | | Company/Operato | Oregon Nat | tural Gas Developme |
| | | <i>t</i> | Signature 🗨 | | |
| OGAMI Appro | ved | , 19 | Position Senio | | Superintendent |
| | | | SEND WELL COMMUN | | |
| | | | Name Todd Th | | |
| | | | | | Nro. |
| | | | MOGLESS JULY ST | | |
| Ву | | | Address 221 N | and Or 97 | |

NOTE: (1) Issuance of this permit is not a finding of compliance with the Statewide Planning Goals of 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 drilling takes place. (4) Unless specifically exempted, permittee is obligated to comply with all current applicable statutes and rules including those adopted after permit issuance.

EXHIBIT B Page 1

Form 1 (5-85)

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

| 0&G | PERMIT | #: | |
|-----|--------|----|--|
| API | #: | | |

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 In compliance with rules and regulations pursuant to ORS 520, application is hereby made for permit to drill (a gas well) to be known as Northwest Natural Gas Co. NNG (Company or operator) (Well No.) in SE 1/4 of Sec. 3 , T. 6N , R. 5W W.B.&M. Directional? No Yes X Survey Coordinates: 2025' West and 750' South from the East 1/4 corner (bottom hole location) Wildcat: _____ (or) Field Name: Mist Underground Storage County: ____ Columbia Elevation of ground above sea level is 1080 feet. All depth measurements are taken from Kelly Bushing _____, which is _______11.4 feet above ground. Lessor (Mineral Owner): _____Northwest Natural Gas Co. 220 N.W. Second Avenue, Portland, OR 97209 Surface Owner: _____ Cavenham Forest Industries 62424 N. Nehalem Highway, Vernonia, OR 97064 Address: Lessee: Northwest Natural Gas Co. 220 N.W. Second Avenue, Portland, OR 97209 We propose to use the following strings of casing and to land or cement them as herein indicated: Size of Size of Weight in pounds hale per foot Grade/Type Depth casing Amount of cement 17 1/2" 13 3/8" 54.5 K - 554501 545SX 12 1/4" 8 5/8" 36.0 K-55 2600' 1175SX į Geologic Objectives ____Clark and Wilson Sand 2900 TVD Proposed Depth _____ Oregon Natural Gas Development Company/Operator Signature Position | Senior Operations Superintendent DOGAMI Approved _____ __, 19 Date 813190 SEND WELL COMMUNICATION TO: Todd Thomas Kame 221 N.W. Second Ave. Address Portland, OR 97209 8y Phone 220-2573 (Day) 359-4956 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 drilling takes place. (4) Unless specifically exempted, permittee is obligated to comply with all current applicable statutes and rules including those adopted after dermit issuance.

EXHIBIT B Page 2

Form 1 (5-85)

STATE OF GREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 910 State Office Building Portland, OR 97201

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APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

| (To be accorights owne below. | mpanied by a rship or lea | s \$100 permit fee, a sure use.) This application b | ety bond conditioned as ecomes a permit to dri | s provided by lam ill when signed a | w, and evidence of mineral and dated by DOGAMI in box |
|-------------------------------|--------------------------------------|--|---|--|---|
| In complian | ce with rule | es and regulations pursua | nt to ORS 520, applica | tion is hereby a | made for permit to drill |
| (a gas well |) to be kno | (Company or open | tural Gas Compan | y NNG | IW23d-3 |
| | | | | | (Weil No.) |
| inSW | <u> 4</u> of Se | ec, T6 | N, R5W | W.8.&M. Dire | ectional? NoyesX |
| Survey Coor | dinates: | 800' South and 250 | O' East from the | west 1/4 co | orner (boctom hole locaci |
| Wildcat: | (or) | Field Name: Mist | Underground Stor | age County | :Columbia |
| Elevation o | f ground abo | ve sea level is | 100 feet. All depth | measurements ar | e taken from |
| | | | | | above ground. |
| essor (Hine: | ral Owner): | Northwest Nacu | ral Gas Company | | |
| ddress: | | 220 N.W. Secon | d Avenue, Portla | nd, OR 97209 | |
| orface Owner | r: | Longview Fibre | Company | | |
| ddress: | | Р.О. Вок 667, | Longview, WA 9861 | 30 | |
| .essae: | | Northwest Natu | | | |
| ddress: | | 220 N.W. Secon | d Avenue, Portlan | nd OR 97209 | |
| We prodose t | o use the fo | ollowing strings of casi | ng and to land or cemer | nt them as herein | n indicated: |
| Size of hale | Size of casing | Weight in pounds per foot | Grade/Type | Depth | Amount of cement |
| 17 1/2" | 13 3/8" | 54.5 | K-55 | 450' | 545_SX |
| 12 1/4" | 8 5/8" | 36.0 | K-55 | 2700' | 1200 SX |
| | | | | | |
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| , | | | | | |
| Geologic Obj | ectives | Clark & Wilson Sar | nd | | |
| Proposed Dep | th300 | OO' TVD | | | |
| | | | Company/Operat | or Oregon | Natural Gas Development |
| | | ji. | Signature | | mas |
| DOGAMI Appro | ved | , 19 | Position Sen | | ons Superintendent . |
| | | | SEND WELL COMM | | |
| | | | Name Todd | | |
| | | | | N.W. Second | Ave. |
| Ву | | | | land, OR 97 | |
| °' | | | Phone 220-25 | 73 (Day) | 359-4956 (Night) |
| edged | comprehensived from the igated to co | e plan. (2) Permit expi | res one year from date the drilling takes pla | ce.(4) Unless: | anning Goals or the acknowl- Land use approval must be specifically exempted, permittee those adopted after permit |
| | | | | | EVITEDTI D LOGS 2 |

Form 1 (5-85)

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

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APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

| (To be accordant owner below. | ompanied by a ership or lea | \$100 permit fee, a sure se.) This application b | ty bond conditioned as ecomes a permit to dri | s provided by law, ill when signed and | and evidence of mineral didated by DOGAMI in box |
|-------------------------------|--------------------------------|---|--|---|---|
| In complian | ice with rule | s and regulations pursua | nt to ORS 520, applica | ition is hereby mad | de for permit to drill |
| (a gas well (an oil wel |) 1) to be know | wn as Northwest Nate | ral Gas Co. | NNG (Lease) | IW32c-10 (WeI1 No.) |
| in NE | <u>-√4</u> of Se | c. <u>10</u> , T. <u>6</u> N | R5W | W.B.&M. Direct | tional? Noyes X (bottom hole location |
| | | | | | Columbia |
| Elevation o | of ground abo | ve sea level is790 | feet. All depth | measurements are | taken fromabove ground. |
| essor (Mine | ral Owner): | Northwest Natu | ral Gas Company | | |
| ddress: | | 220 N.W. Secon | d Ave., Porcland | OR 97209 | |
| urface Owne | r: | Longview Fibre | Company | | |
| ddress: | | P.O. Box 667, | Longview, WA 986 | 30 | |
| .essee: | | | ral Gas Company | | |
| ddress: | | 220 N.W. Secon | | | |
| | | illowing strings of casin | | | |
| Size of hale | Size of casing | Weight in pounds per foot | Grade/Type | Depth | Amount of cement |
| 17½" | 13 3/8" | 54.5 | K-55 | 450' | 545 SX |
| 12½" | 8 5/8" | 36.0 | K-55 | 2000 ' | 950 SX |
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| | | | <u> </u> | [| |
| Geologic Ob | jectives C | lark and Wilson Sa | ind | · · · · · · · · · · · · · · · · · · · | |
| Proposed De | | 600' TVD | | | |
| | | , | Company/Operat | or Oregon Natu | ral Gas Development |
| DOGAMI Appr | nved | , 19 | Position / Sa | nior Operatio | ns Superintendent |
| rippi | | ······································ | Date <u>813(4</u> | | |
| | | | Todd | UNICATION TO: Thomas | |
| | | | name | N.W. Second A | Ve - |
| | | | | land, OR 972 | |
| Ву | | | | 573 (Day) 3 | |
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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 drilling takes place. (4) Unless specifically exempted, permittee is obligated to comply with all current applicable statutes and rules including those adopted after permit issuance.

EXHIBIT B Page 4

Form 1 (5-85)





SAFECO INSURANCE COMPANY OF AMERICA GENERAL INSURANCE COMPANY OF AMERICA FIRST NATIONAL INSURANCE COMPANY OF AMERICA HOME OFFICE: SAFECO PLAZA SEATTLE, WASHINGTON 98185

| 10 08 4114 | ached to and form a part of | | |
|--------------------|--|---|------------------|
| Bond No. | 5269368 | | |
| Type of Bond: | Oil and Gas Well Bond | | |
| dated effective | June 24, 1986 MONTH-DAY-YEAR) | | |
| xecuted by | OREGON NATURAL GAS DEVELOPMENT CO | RPORATION | .as Principal, |
| and by | SAFECO INSURANCE COMPANY OF AMERICA | .as Surety, | |
| in favor of | STATE OF CREGON, Department of Ge | ology and Mineral Resourc | : e s |
| the na | eration of the mutual agreements herein contained the Principal herein OREGON NATURAL GAS DEVELOPMENT COR OREGON NATURAL GAS DEVELOPMENT COR NORTHWEST NATURAL GAS COMPANY | RPORATION | ging |
| | | | |
| This rider | erein contained shall vary, alter or extend any provision or over the stand of the standard of | candition of this band except as herein ex | kpressiy stated. |
| Signed and | nd Sealed August 1, 1990 | | |
| Ву: | OREGON NATURAL GAS DEVELOPMENT CORPOR. Treasurer | ATION and NORTHWEST NATURAL Property of the President Sy: /////////////////////////////////// | GAS COMPANY |
| SAF By: | (ATTORNEY-IN-FACT) Muriel M. van Veen | | · |
| | Marsh & McLennan, Inc. | EXHIBI | IB Page 5 |



POWER OF ATTORNEY

SAFECO INSURANCE COMPANY OF AMERICA GENERAL INSURANCE COMPANY OF AMERICA HOME OFFICE: SAFECO PLAZA SEATTLE, WASHINGTON 98185

| | | | | No | 0907 |
|--|---|---|--|--|---|
| KNOW ALL BY THESE PRES | ENTS: | | | | |
| That SAFECO INSURANCE a Washington corporation, doe | | | ENERAL INSURA | ANCE COMPAN | Y OF AMERICA, each |
| | MURIEL M. | VAN VEEN, Po | rtland, Oreg | on | |
| its true and lawful attorney(s)- and other documents of a simil | | | | | - |
| IN WITNESS WHEREOF, SA OF AMERICA have each exec | | | OF AMERICA and | GENERAL INS | URANCE COMPANY |
| | this | 20th | day of | January | 1984 |
| | | | | | |
| | | CERTIFICA | TE | | |
| Extract fr | | | RANCE COMPA COMPANY OF A | | :A |
| "Article V. Section 13. — FID Assistant Vice President apport to appoint individuals as attocompany fidelity and surety business On any instrument instrument conferring such autimpressed or affixed or in any validity of any such instrument. | inted for that pur irneys-in-fact or onds and other o it making or evide ithority or on any y other manner o | pose by the office under other appr documents of sim encing such appoil bond or undertaki eproduced; provide | r in charge of sure opriate titles with ilar character issu ntment, the signat ng of the company | ety operations, ship a authority to exi and by the compa ures may be affix and the seal, or a fac- | all each have authority ecute on behalf of the any in the course of its ed by facsimile. On any csimile thereof, may be |
| Extract from a Resolution and of GEN | | | FECO INSURAN OF AMERICA ad | | |
| "On any certificate executed to (i) The provisions of Art (ii) A copy of the power (iii) Certifying that said the signature of the certifying | ticle V. Section 1 -of-attorney appo power-of-attorne | 3 of the By-Laws, pintment, executed y appointment is in | and i pursuant thereto n full force and eff | e. and fect. | |
| I, Boh A. Dickey, Secretary COMPANY OF AMERICA, d Directors of these corporation By-Laws, the Resolution and t | o hereby certify to s. and of a Power | hat the foregoing i of Attorney issue | extracts of the By- d pursuant thereto | Laws and of a Res o, are true and co | solution of the Board of |
| IN WITNESS WHEREOF, I h | | | | | |
| | | this | <u>lst</u> day o | fAugust | . 19 90 |
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Greation)

| ' • • 1 | . (Corp | oration) | Bond No. | 5269368 | |
|-------------|---|----------------------|------------------------|------------------|--------------|
| • | | | | <u> </u> | _ |
| | lowing document: OREGON NATURAL he principal shall be DEVELOPMENT COR | | , a corporatio | on organized un | der the |
| | aws of the State of Oregon | | | | |
| | warters at 220 N.W. Second Avenue | | | | |
| | tate of Oregon | | | | 1 |
| 2. T | he surety shall be <u>SAFECO INSURANCE C</u> | OMPANY OF AMER | <u>гсда</u> corporatio | on organized und | der the |
| 1 | aws of the State of Washington | and e | xisting thereby, | and authorized | ı to |
| t | ransact a surety business in the State of Ore | gon. | | | |
| This docum | ent jointly obligates the principal and the s | urety to the State | of Oregon for th | e sum of \$150 | ,000.00, |
| for the pa | yment of which we obligate our respective suc | cessors and assigne | es . | | |
| The princi | pal intends to(crill, redrill, see | epen, or rework) | _ : | | |
| 1. A | well located in Sec, T | , R | w.s.s.w | | County |
| | regon, Survey Coordinates | | | | |
| | nd has applied for a permit to do so. (\$25,0 | | | | |
| X 2. H | ore than one well in the State of Oregon and | has applied for a pe | ermit or permits | ; to do so. (5: | 150,000 band |
| | | | | | |
| If the | e principal complies with all of the provisio | ns and rules of ORS | Chapter 520 and | obeys all orde | rs of the |
| State Geol | ogist and the Governing Spard of the State De | partment of Geology | and Mineral Ind | ustries (DOGAMI |), this |
| bond may be | e terminated and cancelled and the surety rel | ieved of all obligat | ions thereunder | , otherwise it | shall |
| remain in | full force and effect. This bond will not be | cancelled unless th | ne well, the sub | ject of this bo | nd, has |
| been abando | oned pursuant to ORS Chapter 520, or until an | other valid bond for | such well has | been submitted | and |
| approved by | y the Board. If the Governing Board declares | a well to be unlaw: | fully abandoned. | and that certa | in work |
| shall be do | one, the surety shall be responsible for arra | nging to have it dor | ne according to | DOGAMI's specif | ications |
| and time so | chedule. | | | | |
| | | | | | |
| | OREGON NATURAL GAS | | | | |
| Principal: | DEVELOPMENT CORPORATION | Surety: SAFECO | INSURANCE CO | TWEANN OF TH | 1ERICA |
| Signature: | Charles C Stamo | Signature: | D. P. 25. 5 | - Charles | |
| Position: | 11CZ PRZS DENT | Position: , Attor | <u>ney-in-fact</u> | | |
| Date: :7 | 11 NO. 25/84 | Oate: June 24 | 1986 | | |

form 13a (12/85)

. EXHIBIT B Page 7

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|-----|------|--|
| | | |

SPECIAL WARRANTY DEED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys and specially warrants to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), effective April 11, 1988, its overriding royalty interest which Grantor received from Wesley G. Bruer and Odetha P. Bruer by Special Warranty Deed dated April 4, 1986 and recorded at Book 261, page 774 in the deed records of Columbia County, State of Oregon, free of encumbrances.

The true consideration for this conveyance is \$10.00 and other good and valuable consideration.

Done by order of the grantor's board of directors with its corporate seal affixed on July 31, 1990.

THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY BE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES.

OREGON NATURAL GAS DEVELOPMENT CORPORATION

Secretary

(Corporate Seal)

STATE OF OREGON, County of Multnomah

) ss.

7-31-90

Personally appeared DUNYNE LEGLEY and C.J. RUE

who, each being first duly sworn, did say that the former is the

sworn, did say that the former is the president and that the latter is the secretary of Oregon Natural Gas Development Corporation, a corporation,

and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors; and each of them acknowledged said instrument to be its voluntary act and deed.

(Official Seal)

R.L. HORDICHOK
NOTARY PUBLIC - OREGON
My Commission Expires 10-9-92

SPECIAL WARRANTY DEED
Oregon Natural Gas Development Corporation
General

Northwest Natural Gas Company

220 N.W. Second Avenue Portland, OR 97209

Granton's Address, Zip

After recording mixing for Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209

Marrie, Address, Zir

Until a change is requested, all tax statements shall be sent to the following address: Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209

County of ______)

I certify that the within instrument was received for record on the _____ day of ______, 19____, at ______, o'clock _____ M, and recorded in book/reet/volume No. _____ on page _____ or as document/lee/file/instrument/microfilm No. _____ Record

of Deeds of said county.

Witness my hand and seal of County affixed.

Name Trile

By Deputy

EXHIBIT B Page 8

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| | | |

QUITCLAIM DEED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys, releases and quitclaims to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), effective April 11, 1988, the property rights which Grantor received from Wesley G. Bruer and Odetha P. Bruer by Quitclaim Deed dated April 4, 1986 and recorded at Book 261, Page 784, in the deed records of Columbia County, State of Oregon.

The true consideration for this conveyance is \$10.00 and other good and valuable consideration.

Done by order of the grantor's board of directors with its corporate seal affixed on July 31, 1990.

| THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY |
|--|
| PARTICULAR USE MAY BE MADE OF THE PROPERTY |
| DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD |
| CHECK WITH THE APPROPRIATE CITY OR COUNTY |
| PLANNING DEPARTMENT TO VERIFY APPROVED USES. |
| |

OREGONNATURAL GAS DEVELOPMENT CORPORATION Secretary

(Corporate Seal)

STATE OF OREGON, County of Multnomah

7-31-90 Personally appeared DWAYNE L FULEY and C J RUE

who, each being first duly sworn, did say that the former is the president and that the latter is the secretary of Oregon Natural Gas Development Corporation, a corporation, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors; and each of them acknowledged said instrument to be its voluntary act and deed.

(Official Seal)

Portland, OR 97209

NOTARY PUBLIC -My Commission Expires .

Before me: Notary Public for Oregon; My commission expires

OUITCLAIM DEED Oregon Natural Gas Development Corporation Northwest Natural Gas Company 220 N.W. Second Avenue Portland, OR 97209 After recording return to: Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209 Address, Zo Until a change is recursied, all but so Northwest Natural Gas Company Risk & Land Menagement 220 N.W. Second Avenue

| STATE OF OREGON, |) |
|--|--|
| |) |
| County of | _) |
| secord on the day of | in instrument was received for, 19, at |
| o'clock | _M, and recorded in |
| book/reel/volume No. document/fee/file/instrument/n of Deeds of said county. | on pageor as |
| Witness my hand as | nd seal of County affixed. |
| Name | Title |
| Ву | Deputy |

EXHIBIT B Page 9

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| | |

SPECIAL WARRANTY DEED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys and specially warrants effective to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), April 11, 1988, the overriding royalty interest which Grantor received from Charles O. Newell and Sally N. Newell by Special Warranty Deed dated April 1, 1986 and recorded at Book 261, Page 766, in the deed records of Columbia County, State of Oregon, free of encumbrances.

The true consideration for this conveyance is \$10.00 and other good and valuable consideration.

Done by order of the grantor's board of directors with its corporate seal affixed on July 31, 1990.

THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY SE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES.

OREGON NATURAL GAS DEVELOPMENT CORPORATION

By ______ Secret

(Corporate Seal)

STATE OF OREGON, County of Multnomah

) ss.

7-31-90

Personally appeared DWAYNE L FILEY and EVRUE

who, each being first duly sworn, did say that the former is the

president and that the latter is the

secretary of Oregon Natural Gas Development Corporation, a corporation, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors; and each of them

acknowledged said instrument to be its voluntary act and deed.

(Official Seal)

R.L. HORDICHOK
NOTARY PUBLIC - OREGON
My Commission Expires 10-9-92

Before me:
Notary Public for Oregon; My commission expires

Oregon Natural Gas Development Corporation
Grants
Northwest Natural Gas Company
Grantse
220 N.W. Second Avenue
Portland, OR 97209

After recording return to:
Northwest Natural Gas Company
Risk & Land Management
220 N.W. Second Avenue
Portland, OR 97209

Nama, Address, 2p

| Name | Title | |
|--|---------------|---------------|
| Witness my hand an | nd seal of Co | unty affixed. |
| document/fee/file/instrument/m of Deeds of said county. | icrofilm No. | , Record |
| book/rest/volume No. | | |
| o'clock | _M, and | recorded in |
| record on the day of _ | | , 19, at |
| I certify that the withi | | |
| County of | .) | |
| |) | |
| STATE OF OREGON, | } | |

Until a charge is requested, at the emissions shall be sent to the following address: Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209

Deputy

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OUITCLAIM DEED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys, releases and quitclaims to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), effective April 11, 1988, the property rights which Grantor received from Charles O. Newell and Sally N. Newell by Quitclaim Deed dated April 1, 1986 and recorded at Book 261, Page 750 in the deed records of Columbia County, State of Oregon.

The true consideration for this conveyance is \$10.00 and other good and valuable consideration.

Done by order of the grantor's board of directors with its corporate seal affixed on July 31, 1990.

THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY BE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES.

OREGONNATURAL GAS DEVELOPMENT CORPORATION

By To Gy President

By Secretary

(Corporate Seal)

STATE OF OREGON, County of Multnomah

7-31-90

Personally appeared DWAYNE L FULLY and C V RUE

) ss.

who, each being first duly sworn, did say that the former is the

president and that the latter is the

secretary of Oregon Natural Gas Development Corporation, a corporation, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors; and each of them acknowledged said instrument to be its voluntary act and deed.

(Official Seal)

R.L. HORDICHOK
NOTARY PUBLIC - OREGON
My Commission Expires

Before me:
Notary Public for Oregon; My commission expires

| OUITCLAIM DEED |
|---|
| Oregon Natural Gas Development Corporation |
| Grantor / |
| Northwest Natural Gas Company |
| Grantina |
| 220 N.W. Second Avenue |
| Portland, OR 97209 |
| Grayalya's Address, Zip |
| After recording return for Northwest Natural Gas Company |
| Risk & Land Management |
| 220 N.W. Second Avenue |
| |
| Portland, OR 97209 |
| Name, Address, Zip |
| Until 4 change is requested, all tex statements yould be sent to the following address: |
| Northwest Natural Gas Company |
| Risk & Land Management |
| 220 N.W. Second Avenue |
| Portland, OR 97209 |
| |

| STATE OF OREGON, |) |
|--|------------------------------------|
| County of | _ |
| I certify that the with | in instrument was received for |
| record on theday ofo'clock | M. and recorded in |
| book/reel/volume No. document/fee/file/Instrument/n of Deeds of said county. | on page or as nicrofilm No, Record |
| Witness my hand as | nd seal of County affixed. |
| Name | Title |
| Ву | Deputy |

EXHIBIT B Page 11

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WARRANTY DEED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys and warrants to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), effective April 11, 1988, the property rights which Grantor received from Longview Fibre Company by Warranty Deed dated April 7, 1986 and recorded at Book 261 Page 753 in the deed records of Columbia County, State of Oregon, free of encumbrances.

The true consideration for this conveyance is \$10.00 and other good and valuable consideration.

Done by order of the grantor's board of directors with its corporate seal affixed on July 31, 1990.

THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY BE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES. OREGON NATURAL GAS DEVELOPMENT CORPORATION

(Corporate Seal)

STATE OF OREGON, County of Multnomah

7-31-90

Personally appeared DWOYNE L FOLEY and

who, each being first duly sworn, did say that the former is the

president and that the latter is the

Oregon Natural Gas Development Corporation, a corporation, secretary of and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors; and each of them acknowledged said instrument to be its voluntary act and deed.

(Official Seal)

R.L. HORDICHOK NOTARY PUBLIC - OREGON My Commission Expires 10 -

Before me: Notary Public for Oregon; My commission expires

STATE OF OREGON.

of Deads of said county.

WARRANTY DEED

Oregon Natural Gas Development Corporation

Northwest Natural Gas Company

220 N.W. Second Avenue

Portland, OR 97209

Portland, OR 97209

Grandania Address, 25p

After recording return to: Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue

Until a change is requested, all tax ats Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209

County of I certify that the within instrument was received for day of __ M, and recorded o'clock book/reel/volume No. on page _ document/fee/file/instrument/microfilm No. . Record

Witness my hand and seal of County affixed.

Title Name Deputy

EXHIBIT B Page 12

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BARGAIN AND SALE DEED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys and releases to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), effective April 11, 1988, the property rights Grantor received from Columbia County by Bargain and Sale Deed dated July 2, 1986 and recorded at Book 262, Page 946 in the deed records of Columbia County, State of Oregon.

The true consideration for this conveyance is \$10.00 and other good and valuable consideration.

Done by order of the grantor's board of directors with its corporate seal affixed on July 31, 1990.

THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY BE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES.

(Corporate Seal)

| STATE OF | OREGON, | County of | of Multinor | nah |) SS |
|----------|---------|-----------|-------------|-----|------|
| | | | | | |

7-31-90

Personally appeared DWAYNE L FULLY and C J RUE

who, each being first duly sworn, did say that the former is the president and that the latter is the secretary of Oregon Natural Gas Development Corporation, a corporation,

and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors; and each of them acknowledged said instrument to be its voluntary act and deed.

(Official Seal)

220 N.W. Second Avenue Portland, OR 97209 R.L. HORDICHOK

MOTARY PUBLIC - OREGON

My Commission Expires 10 - 9 - 9 2

BARGAIN & SALE DEED

Oregon Natural Gas Development Corporation
General
Northwest Natural Gas Company
General
220 N.W. Second Avenue
Portland, OR 97209
General Address, Zp

After recogning referents
Northwest Natural Gas Company
Risk & Land Management
220 N.W. Second Avenue
Portland, OR 97209

Name, Address, Zp

Unil a change is required, at the values of the belong actions, Northwest Natural Gas Company
Risk & Land Management
Risk & Land Management

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| d seal of County sifbred. |
| Title |
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Title

Deputy

QUITCLAIM DEED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys, releases and quitclaims to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), effective April 11, 1988, the property rights which Grantor received from Columbia County by Quitclaim Deed dated July 2, 1986 and recorded at Book 262, Page 968 in the deed records of Columbia County, State of Oregon.

| - | - |
|--|---|
| The true consideration for this conveyance is \$ | 10.00 and other good and valuable consideration. |
| Done by order of the grantor's t | board of directors with its corporate seal affixed on July31, 1990. |
| THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY BE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES. | OREGON NATURAL GAS DEVELOPMENT CORPORATION By President By Secretary |
| (Corporate Seal) | |
| STATE OF OREGON, County of Multnomah 7-31-90 Personally appeared Dwaywe L For who, each being first duly sworn, did say that the secretary of and that the seal affixed to the foregoing instruments as signed and sealed in behalf of said contacts acknowledged said instrument to be its voluntary. | ne former is the president and that the latter is the Oregon Natural Gas Development Corporation, a corporation, ment is the corporate seal of said corporation and that said instrument rporation by authority of its board of directors; and each of them |
| (Official Seal) R.L. HORDICH NOTARY PUBLIC - OR My Commission Expires | REGON |
| QUITCLAIM DEED | STATE OF OREGON, |
| Oregon Natural Gas Development Corporation | |
| Northwest Natural Gas Company | County of) |
| 220 N.W. Second Avenue Portland, OR 97209 Granter's Address, Zip After recording return to: Northwest Natural Gas Company | certify that the within instrument was received for record on theday of, 19, ao'clockM, and recorded in book/reel/volume No on page or as document/fee/file/instrument/microfilm No, Record of Deeds of said county. |
| Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209 Name, Address, Zp | Witness my hand and seal of County affixed. |

Northweet Natural Gas Company

Risk & Land Management

220 N.W. Second Avenue

EXHIBIT B Page 14

Portland, OR 97209

Name

ASSIGNMENT of UNDERGROUND GAS STORAGE LEASES

Oregon Natural Gas Development Corporation, an Oregon corporation with its principal place of business at 221 N.W. Second Avenue, Portland, Oregon ("Assignor"), does hereby assign and convey to Northwest Natural Gas Company, an Oregon corporation with its principal place of business at 220 N.W. Second Avenue, Portland, Oregon ("Assignee") all of its right, title and interest in the underground storage leases described in Exhibits A, B and C attached hereto.

The true consideration for this Assignment is Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged.

This Assignment is made without representation of warranty of title, either express or implied, and shall be binding upon and inure to the benefit of the Assignor and Assignee, and their successors and assigns, and shall be effective for all purposes as of April 11, 1988.

Assignor:

OREGON NATURAL GAS DEVELOPMENT CORPORATION

STATE OF OREGON

County of MULTWOMAH S.S.

On this \$1' day of \(\subseteq \text{ULY} \), 19\(\frac{9}{4} \) before me, the undereigned, a Notary Public in and for said County and State, personally appeared \(\frac{DWAYNEL}{V} \) \(\text{FOUCEY} \) known to me to be the \(\frac{PUESIDENT}{V} \) of Oregon Natural Gas Development Corporation, the corporation that executed the within Instrument, and known to me to be the person who executed the within Instrument on behalf of the corporation therein named, and acknowledged to me that such corporation executed the same pursuant to its by-laws or a resolution of its board of directors.

R.L. HORDICHOK

NOTARY PUBLIC - OREGON

My Commission Expires 10-4-42

Assignee:

NORTHWEST NATURAL GAS COMPANY

STATE OF OREGON

County of ALVLTNOMAN S.S.

On this 31 day of JULY 19 Defore me, the undersigned, a Notary Public in and for said County and State, personally appeared COUNTY of Northwest Natural Gas Company, the corporation that executed the within instrument, and known to me to be the person who executed the within instrument on behalf of the corporation therein named, and acknowledged to me that such corporation executed the same pursuant to its by-laws or a resolution of its board of directors.

R.L. HORDICHOK

NOTARY PUBLIC - OREGON

My Commission Expires 10 - 9 - 9

EXHIBIT A

to

OREGON NATURAL GAS DEVELOPMENT CORPORATION'S

ASSIGNMENT of

UNDERGROUND GAS STORAGE LEASES

Description of Lease

That underground gas storage lease agreement dated January 31, 1983, by and between Oregon Natural Gas Development Corporation, an Oregon corporation, (Lessee) and Crown Zellerbach Corporation, a Nevada corporation, (Lessor) covering certain land situated in the County of Columbia, State of Oregon, described as follows, to wit:

Township 6 North, Range 5 West of Willamette Meridian

Section 2: W 1/2 SW 1/4, W 1/2 SE 1/4 SW 1/4

Section 3: SE 1/4

Section 10: NE 1/4

Section 11: SW 1/4 NE 1/4, NW 1/4, NW 1/4, SE 1/4

(containing 645 acres more or less)

Crown Zellerbach Corporation transferred its interest in this underground storage lease to Cavenham Forest Industries, Inc., a Delaware corporation, on April 23, 1986. Said transfer was recorded on May 2, 1986, at Book 262, Page 58, in the deed records of Columbia County, State of Oregon.

EXHIBIT B

to

OREGON NATURAL GAS DEVELOPMENT CORPORATION'S

ASSIGNMENT of

UNDERGROUND GAS STORAGE LEASES

Description of Lease

That underground gas storage lease agreement dated November 1, 1983, by and between Oregon Natural Gas Development Corporation, an Oregon corporation, ("Lessee") and Thomas Sweet ("Lessor") covering certain land situated land situated in the County of Columbia, State of Oregon, described as follows, to wit:

Township 6 North, Range 5 West of the Willamette Meridian

Section 2: SW 1/4 NW 1/4 Section 3: S 1/2 NE 1/4

(containing 120 acres more or less)

EXHIBIT C

to

OREGON NATURAL GAS DEVELOPMENT CORPORATION'S

ASSIGNMENT of

UNDERGROUND GAS STORAGE LEASES

Description of Lease

That underground gas storage lease agreement dated July 6, 1984, by and between Oregon Natural Gas Development Corporation, an Oregon corporation, ("Lessee") and Longview Fibre Company, a Delaware corporation ("Lessor") covering certain land situated in the County of Columbia, State of Oregon, described as follows, to wit:

Township 6 North, Range 5 West of the Willamette Meridian

| Section | 3: | s | 1/2 | NW | 1/4, | SV | 1/4 | | | | | | |
|---------|-----|---------|------------|----------|------|----------|-----------------------------|----------|------------|----|-----|----|------|
| Section | 4: | | 1/4 1/4 | NE | 1/4, | NI | E 1/4 | SE | 1/4, | E | 1/2 | SE | 1/4 |
| Section | 10 | NW E | 1/4, | NE SE | 1/4 | SW SW | 1/2 1/4, 1/4, 1/4, | E W : | 1/2 L/2 | NW | 1/4 | SW | 1/4, |
| Section | 11: | N | 1/2 | sw | 1/4, | N | 1/2 | sw | 1/4 | sw | 1/4 | | |

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OUITCLAIM DRED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys, releases and quitclaims to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), effective April 11, 1988. the property rights which Grantor received from the Assignment Agreement entered into by Reichhold Energy Corporation ("REC"), Diamond Shamrock Exploration Company ("DSC"), as assignors, and Grantor, as assignee, on November 1, 1984 wherein REC and DSC assigned all of their right, title and interest in and to the Bruer and Flora pools to Grantor.

The true consideration for this conveyance is \$10,00 and other good and valuable consideration.

Done by order of the grantor's board of directors with its corporate seal affixed on July 31, 1990.

THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY BE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES.

(Corporate Seal)

| DREGOND | ATURAL GAS DEVELOPMENT CORPORATION |
|---------|------------------------------------|
| | 171 |

STATE OF OREGON, County of Multnomah

7-31-90

Personally appeared DWAYNE L FOLEY and CJRVE who, each being first duly sworn, did say that the former is the

president and that the latter is the secretary of Oregon Natural Gas Development Corporation, a corporation, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors; and each of them

acknowledged said instrument to be its voluntary act and deed.

(Official Seal)

NOTARY PUBLIC - OREGON ly Commission Expires ..

Before me: Notary Public for Oregon; My commission expires

OUITCLAIM DEED

Oregon Natural Gas Development Corporation

Northwest Natural Gas Company

220 N.W. Second Avenue Portland, OR 97209

Portland, OR 97209

Grantes's Address, Zip

What recording return to: Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue

Until a change in requested, all tax state Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209

| CTATE | OREGON | |
|-------|--------|--|

County of _____

I certify that the within instrument was received for record on the recorded in oʻclock

book/reel/volume No. on page _ OF BS document/fee/file/instrument/microfilm No. of Deeds of said county.

Witness my hand and seal of County affixed.

Title Name

Deputy

EXHIBIT B Page 19

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| | | |

WARRANTY DEED

Oregon Natural Gas Development Corporation, an Oregon corporation ("Grantor"), hereby conveys and warrants effective April 11, 1988, to Northwest Natural Gas Company, an Oregon corporation ("Grantee"), the real property described on Exhibit A attached hereto situated in Columbia County, Oregon, free of encumbrances.

The true consideration for this conveyance is \$88,366 and other good and valuable consideration.

Done by order of the grantor's board of directors with its corporate seal affixed on July 31, 1990.

THIS INSTRUMENT DOES NOT GUARANTEE THAT ANY PARTICULAR USE MAY BE MADE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT. A BUYER SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES. OREGONNATURAL GAS DEVELOPMENT CORPORATION President

(Corporate Sea!)

STATE OF OREGON, County of Multnomah

7-31-90

Personally appeared Dworve L Foldy and C J RUE

who, each being first duly sworn, did say that the former is the

president and that the latter is the Oregon Natural Gas Development Corporation, a corporation,

secretary of and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors; and each of them acknowledged said instrument to be its voluntary act and deed.

(Official Seal)

R.L. HORDICHOK MOTARY PUBLIC - OREGON

Before me: Notary Public for Oregon: My commission expires

WARRANTY DEED

Oregon Natural Gas Development Corporation

Northwest Natural Gas Company

220 N.W. Second Avenue

Portland, OR 97209

Grantes's Address, Zlo

Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209

of to the local Northwest Natural Gas Company Risk & Land Management 220 N.W. Second Avenue Portland, OR 97209

| STATE | OF | OREGON, | |
|-------|----|---------|--|
| | | | |

County of

I certify that the within instrument was received for , 19 ___ day of] and recorded in o'clock book/rest/volume No. on page of 85 Record document/fee/file/instrument/microfilm No. of Deeds of said county.

Witness my hand and seal of County affixed.

)

Title Name 8y _ Deputy

EXHIBIT B Page 20

EXHIBIT A to WARRANTY DEED of OREGON NATURAL GAS DEVELOPMENT CORPORATION

Property Description

A tract of land located in the northwest quarter of Section 11, Township 6 North, Range 5 West of the Willamette Meridian, Columbia County, Oregon, more particularly described as follows:

Beginning at a point that bears South 88 51' 00" East, 1,908.21 feet from the west quarter corner of said Section 11; thence North 14: 18' 08" East, 561.56 feet; thence on the arc of a 255.00 foot radius curve to the left with a cord that bears North 17. 00' 08' West, 264.99 feet. an arc distance of 278.65 feet; thence North 48. 18' 25' West, 338.55 feet; thence on the arc of a 350,00 foot radius curve to the right with a chord that bears North 20. 54' 25' West, 322.14 feet, an arc distance of 334.76 feet; thence North 06* 29' 36* East, 100.74 feet; thence on the arc of a 32.00 foot radius curve to the right with a chord that bears North 70° 56' 14" east, 57.74 feet, an arc distance of 71.99 feet to a point of compound curve; thence on the arc of a 280.00 foot radius curve to the right with a chord that bears South 33° 53' 41" East, 104.20 feet, an arc distance of 104.82 feet; thence South 236,36 10' 14' East, 184,00 feet; thence on the arc of a 360,00 foot radius curve to the left with a chord that bears South 52. 1' 31' East, 347,47 feet, an arc distance of 362.60 feet; thence South 80* 52' 48" East, 85.22 feet; thence on the arc of a 180,00 foot radius curve to the right with a chord that bears South 60. 42' 10" East, 124.17 feet, an arc distance of 126.78 feet to a point of reverse curve; thence on the arc of a 330.00 foot radius curve to the left with a chord that bears South 57. 29' 7" East, 192,52 feet, an arc distance of 195,36 feet; thence South 74. 26' 42" East, 79,20 feet; thence on the arc of a 60.00 foot radius curve to the right with a chord that bears South 29. 41' 37" East, 84.48 feet, an arc distance of 93.73 feet; thence South 15. 03' 28" West, 209.50 feet; thence South 28. 50' 51" West, 108.11 feet; thence on the arc of a 273.50 foot radius curve to the left with a chord that bears South 01. 37' 57" West, 250.16 feet, an arc distance of 259.82 feet; thence South 25. 34' 58' East, 183.86 feet to a point that bears North 88. 51' 00" West, 161.48 feet from the center of said Section 11; thence North 88. 51' 00" West, 602.58 feet to the point of beginning.

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

397-1501

| PlannedWillametException | nal Use Permit Development Le River Greenwa | y Permit | | 0 0 | Non-Conforming Us Variance Temporary Use Per | mit, |
|---|--|----------------|--------------------------|------------------------|--|-----------|
| Name of applic | cant or agent: | Northwest | Natural Ga | s Co. | | |
| Hailing Addres | | | | Phone: | Office 220-257 Home 359-495 | <u> 3</u> |
| | | , Or. 9720 | | - | | |
| Location or Co | ounty Road See | below | | Total A | creage | |
| Tax Account No | umber | | _ Township6N | Ranges | W Section 11 | |
| List other con | ntiguaus propert | y under your o | emership: | | | |
| of natu | use(s), sequence fic reason for t g of gas we ral gas for ibit "A" | the request: | injection | | table for project | |
| Wellsit | e IW 13b-11 | Cavenham | Forest Ind | ustri | es - Surface (| wne |
| Surface | location: | 270' North | and 350' E | ast f | om the west | |
| i come | r of section | n 11; Botto | m hole loc | ation | 80' South a | nd |
| 250' Ea | st from the | West 4 cor | ner | | | |
| 2. Present us | ie of the proper | ty: Forest | | | | |
| | sewage disposal | | | | | |
| | | | | | Other | |
| | face Sewage Dep | | | | _ | K |
| | layees and/or oc | | | Na raposed | t Consulted | <u> </u> |
| | oning <u>Primary</u> | | | | | |
| 8/3/90 | spects true and | ts contained h | best of my k | with the nowledge look | ug | ted, |
| For Office Use Receipt Mo. Mearing Oate Present Zoning | Fee | | Date Recei Staff Memb | · | | |

MOTE: 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:

| | future demands. |
|-----|--|
| | Storage Field which will contribute to providing an energy source for the area |
| | In what way? This Well will assist in the operation of the Mist Underground |
| 5. | Will a public need or convenience be met by this use that is not already being met in the general area? Yes. |
| . • | neighbors? No. |
| 4. | Will the use affect the existing public facilities or surrounding property or |
| | localized with minimal impact on present use of property. |
| | In what way? The Well installation for injection and withdrawal is very |
| 3. | Is the use compatible with surrounding uses? Yes \underline{x} No $\underline{\hspace{1cm}}$ |
| | developed gas storage field and is compatible with surrounding area. |
| 2. | Why is the property in question suitable for this use? Located in |
| | |
| | Drilling Well to inject and withdraw natural gas for underground storage. |
| 1. | What type of use will occur on the property if the conditional use is allowed? |
| | • |

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.

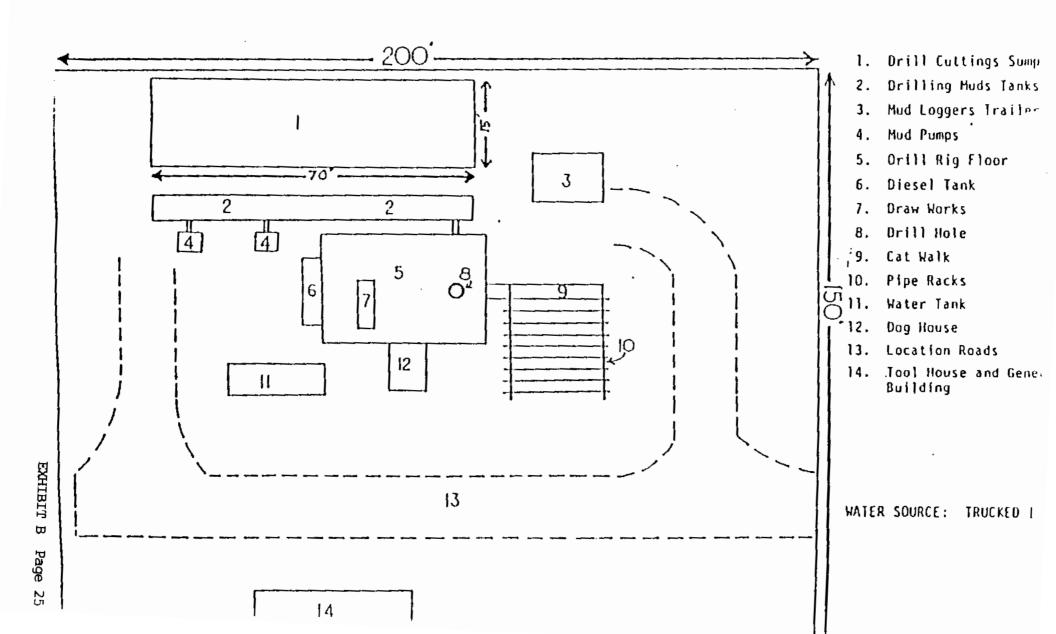
The application form attached.
 Vicinity map.
 One hundred and twenty-five dollar (\$125.90) fee

EXHIBIT A

NORTHWEST NATURAL GAS COMPANY COLUMBIA COUNTY CONDITIONAL USE PERMIT APPLICATION DRILLING & CONSTRUCTION PROCEDURE

- 1. Drill pad is constructed and gravelled, as required, per site plan. Reserve pit is dug according to DOGAMI requirements. Conductor casing is set and rat hole is drilled.
- 2. Drilling rig is moved in and rigged up.
- 3. Drilling operations commence. A 17 1/2" hole is drilled to approximately 450' and surface casing is run and cemented to surface.
- 4. Weld on wellhead, rig up blow out preventer test per DOGAMI requirements.
- 5. Drill a 12 1/4" hole to the top of the zone of interest. Evaluate hole with wire line tools.
- 6. Casing is run to bottom and cemented to surface.
- 7. Drilling continues to the objective total depth. The open hole below casing is evaluated with wireline tools.
- 8. A slotted liner is run and set below the casing. Gravel is placed behind the liner and production tools and tubing are run and the production tree installed.
- 9. The reserved pit is cleaned and back filled. Any portion of the drill site location no longer needed is restored to original condition.

COLUMBIA COUNTY Site Plan Drill Site for Observation and Monitoring Underground Gas Storage Field OREGON MATURAL GAS DEVELOPMENT CORPORATION Taylor Drilling Company, Rig #5



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

397-1501

| G-Eanditional Use Permit Planned Development | G Hon-Conforming Use G Yariance G Temporary Use Permit G | | |
|---|--|--|-----------------|
| Name of applicant or agent: Northwest Natural Gas Company | | | |
| Mailing Address: 220 N.W. Second Avenue Phone | :: Office 220-2573 | | |
| Portland, OR 97209 | Home 359-4956 | | |
| Location or County Road See below Total Acreage | | | |
| Tax Account NumberTownship6N_Range5W_Section3 | | | |
| List other contiguous property under your ownership: | | | |
| i. Proposed use(s), sequence of construction, anticipated timetable for project, and specific reason for the request: Drilling of gas well for the injection and withdrawal of natural gas for underground storage | | | |
| | | | See Exhibît "A" |
| Wellsite IW33ac-3 Cavenham Forest Industri | es - surface owner | | |
| Surface location: 1700' West and 1070' Sou | th from the east | | |
| 1/4 corner of Sec. 3. Bottom hole location | n: 2025' west | | |
| and 750' South from the East 1/4 corner | | | |
| | | | |
| 2. Present use of the property: Forest Land/Existing | ng I/W wellsite | | |
| 3. Method of sewage disposal: | | | |
| 4. Water Supply: Well Community | Other | | |
| 5. Has Subsurface Sewage Department approved this request? | Yes No X | | |
| 6. Total employees and/or occupants: Present Propos | ed | | |
| 7. Present Zoning Primary forest land | | | |
| I hereby certify the statements contained herein, along with are in all respects true and correct to the best of my knowle Sage Date Applicant | dge and beilef. or Agent | | |
| Receipt No. Fee Date Received Hearing Date Staff Momoer Present Zoning | | | |

MOTE: 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:

| | The same was a same wa |
|-----|--|
| | What type of use will occur on the property if the conditional use is allowed |
| | Drilling well to inject and withdraw natural gas for underground storage. |
| | |
| . ! | Why is the property in question suitable for this use? Located in |
| | developed gas storage field and is compatible with surrounding area. |
| | Is the use compatible with surrounding uses? Yes X No |
| | In what way? The well installation for injection and withdrawal is very |
| - | localized with minimal impact on present use of property. |
| | will the use affect the existing public facilities or surrounding property or neighbors? |
| | |
| | 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 field 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.

 Answers to the above questions.
 The application form attached.
 Vicinity map. 4 175.00

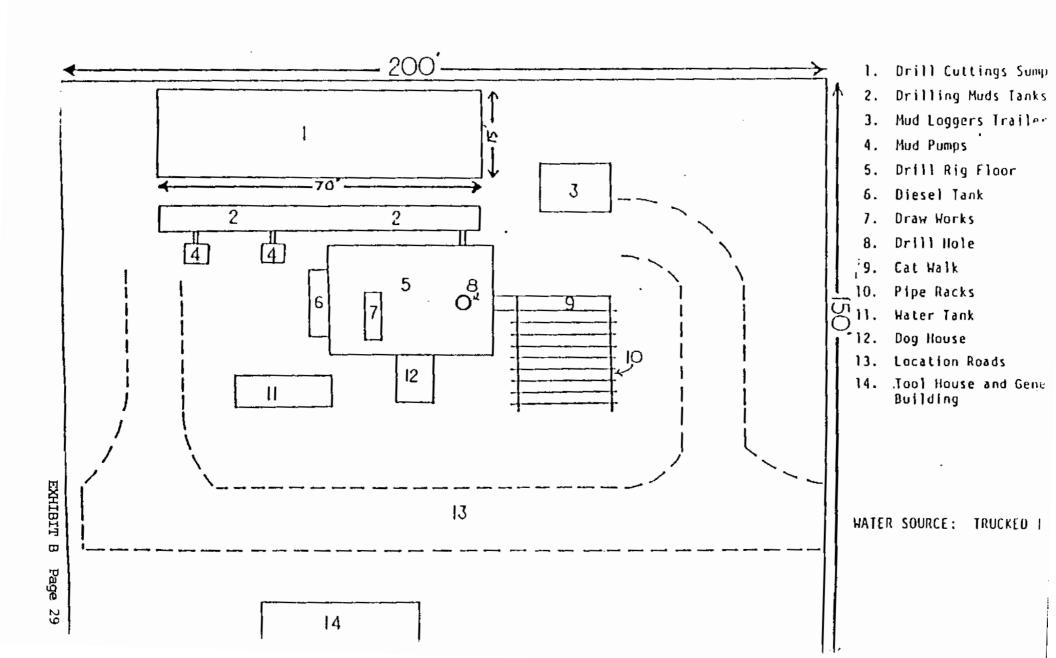
4. One hundred and twenty-five dollar (\$125.90) fee

EXHIBIT A

NORTHWEST NATURAL GAS COMPANY COLUMBIA COUNTY CONDITIONAL USE PERMIT APPLICATION DRILLING & CONSTRUCTION PROCEDURE

- 1. Drill pad is constructed and gravelled, as required, per site plan. Reserve pit is dug according to DOGAMI requirements. Conductor casing is set and rat hole is drilled.
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COLUMBIA COURTY Site Plan Drill Site for Observation and Monitoring Underground Gas Storage Field OREGON NATURAL GAS DEVELOPMENT CORPORATION Taylor Orilling Company, Rig #5



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

397-1501

| ☐ Zone Change ☐ Conditional Use Permit ☐ Planned Development ☐ Willamette River Greenway Permit ☐ Exception ☐ Special Review Permit | O Non-Conforming Use O Yariance O Temporary Use Permit |
|--|---|
| Hame of applicant or agent: Northwest Natural G | as Company |
| Mailing Address: 220 N.W. Second Avenue | Phane: Office <u>220-2573</u> Home <u>359-4956</u> |
| Portland, OR 97209 | - 339-4330 |
| Location or County Road See below | Total Acreage |
| Tax Account NumberTownship6N | Range5W_Section 3 |
| List other contiguous property under your ownership: | |
| 1. Proposed use(s), sequence of construction, anticipat and specific reason for the request: | ted timetable for project, |
| Drilling of gas well for the injection | |
| natural gas for underground storage | |
| See Exhibit "A" | |
| Wellsite IW 23d-3 Longview Fibre Co. | |
| Surface location: 330' South and 2470' | |
| of Sec. 3. Bottom hole location: 800' | South and 2500' East from the |
| west 1/4 corner | |
| | |
| 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 reque | |
| 6. Total employees and/or occupants: Present P | Not Consulted X roposed |
| 7. Present Zoning primary forest land | |
| I hereby certify the statements contained herein, along are in all respects true and correct to the best of my k | with the evidence submitted, nowledge and belief. I homes I cant or Agent |
| For Office Use Only | |
| Receipt No. Fee Oate Recei Kearing Oate Staff Memb Present Zoning | |

MOTE: 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:

| l. | What type of use will occur on the property if the conditional use is allowed? |
|----|--|
| | Drilling well to inject and withdraw natural gas for underground storage |
| 2. | Why is the property in question suitable for this use? Located in developed gas storage field and is compatible with surrounding area. |
| 3. | Is the use compatible with surrounding uses? Yes \underline{x} No $\underline{}$ |
| | In what way? The well installation for injection and withdrawal 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 field 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.

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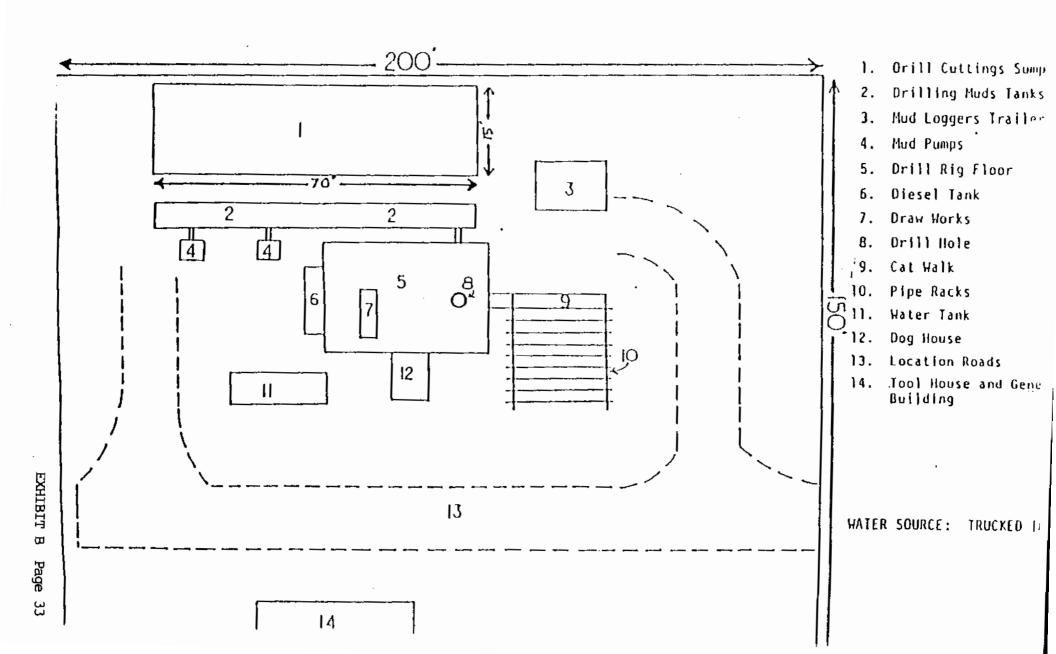
4. One hundred and twenty-five dollar (\$125:30) fee

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COLUMBIA COUNTY Site Plan Drill Site for Observation and Monitoring Underground Gas Storage Field OREGON NATURAL GAS DEVELOPMENT CORPORATION Taylor Drilling Company, Rig #5



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

397-1501

| ☐ Zone Chang ☐ Conditiona ☐ Planned De ☐ Willamette ☐ Exception ☐ Special Re | l Use Permit Yelopment River Greenway Permit | | ☐ Mon-Conformi ☐ Variance ☐ Temporary Us | e Permit |
|--|--|-------------------------------|--|------------------|
| Hame of applica | nt or agent: North | west Natural Gas | Co. | |
| Mailing Address | Portland, OR 97 | | ne: Office 22 Home 35 | 0-2573 9-4956 |
| Location or Cour | nty Road See below | Tot | al Acreage | |
| | oer | | | |
| | iguous property under yo | | | |
| and specific Drilling | e(s), sequence of constr c reason for the request g of gas well for underground stora | :: the injection ar | | of natural |
| See Exhi | ibit "A" | | | |
| Wellsite | ⊇ IW32c-10 Longvie | w Fibre-Surface | ownership | |
| Surface | location; 2670' E | and 285' N from | the west 1/ | 4 corner |
| of Sec. | 10. Bottom hole | location: 110'No | rth and 2715' | east from the |
| west 1/4 | corner | | | • |
| 2. Present use | of the property:F | orest land/exist | ing I/W well | site |
| | evage disposal: | | | |
| 4. Water Supply | y: Well | Community | Other | |
| | ace Sewage Department ap | | | x |
| 6. Total employ | yees and/or occupants: | Present Prop | Not Consulted | <u> </u> |
| 7. Present Zoni | Deimary for | | | |
| I hereby certify are in all respendence of the later of t | _ | the best of my know | the evidence siledge and belief | ubmitted. |
| Receipt No. Hearing Date Present Zoning _ | Fee | Oate Received Staff Hember | | |

MOTE: 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 inject and withdraw natural gas for underground storage. |
| | |
| 2. | Why is the property in question suitable for this use? Located in |
| | developed gas storage field and is compatible with surrounding area. |
| | |
| 3. | Is the use compatible with surrounding uses? Yes X No |
| | in what way? The well installation for injection and withdrawal 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 field which will contribute to providing an energy source for the |
| | area's future demands. |
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 The application form attached.

3. Vicinity map.

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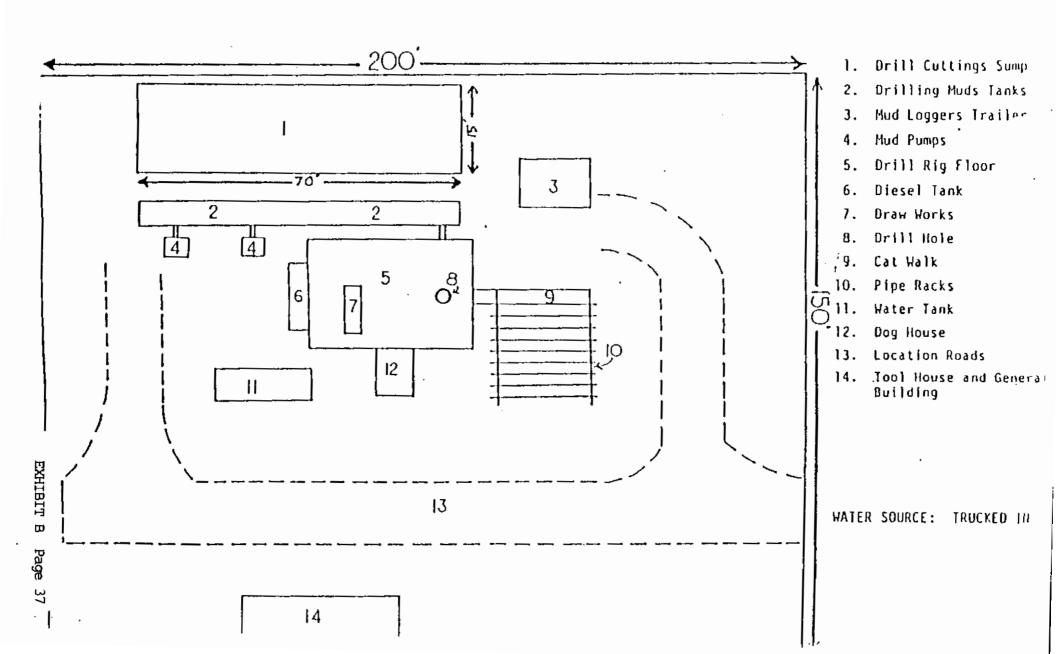
4. One hundred and twenty-five dollar (\$125.98) fee

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COLUMBIA COUNTY Site Plan Drill Site for Observation and Monitoring Underground Gas Storage Field OREGON HATURAL GAS DEVELOPMENT CORPORATION Taylor Drilling Company, Rig #5



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| | EXHIBIT B Page 40 |

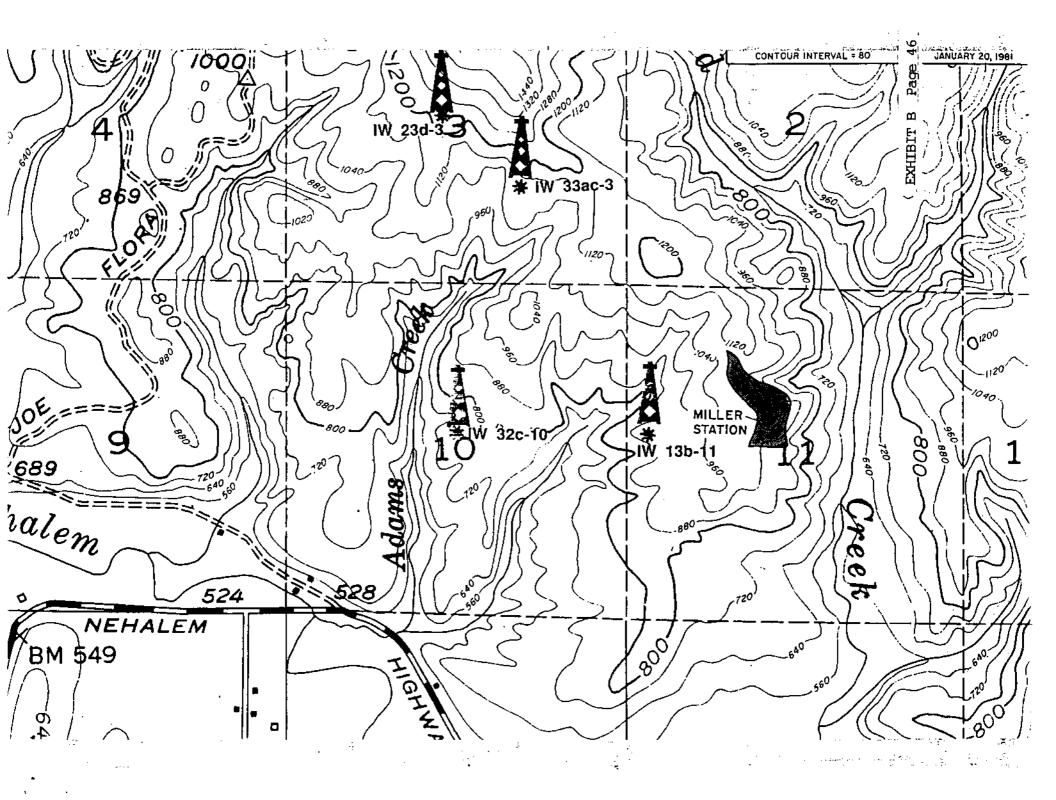
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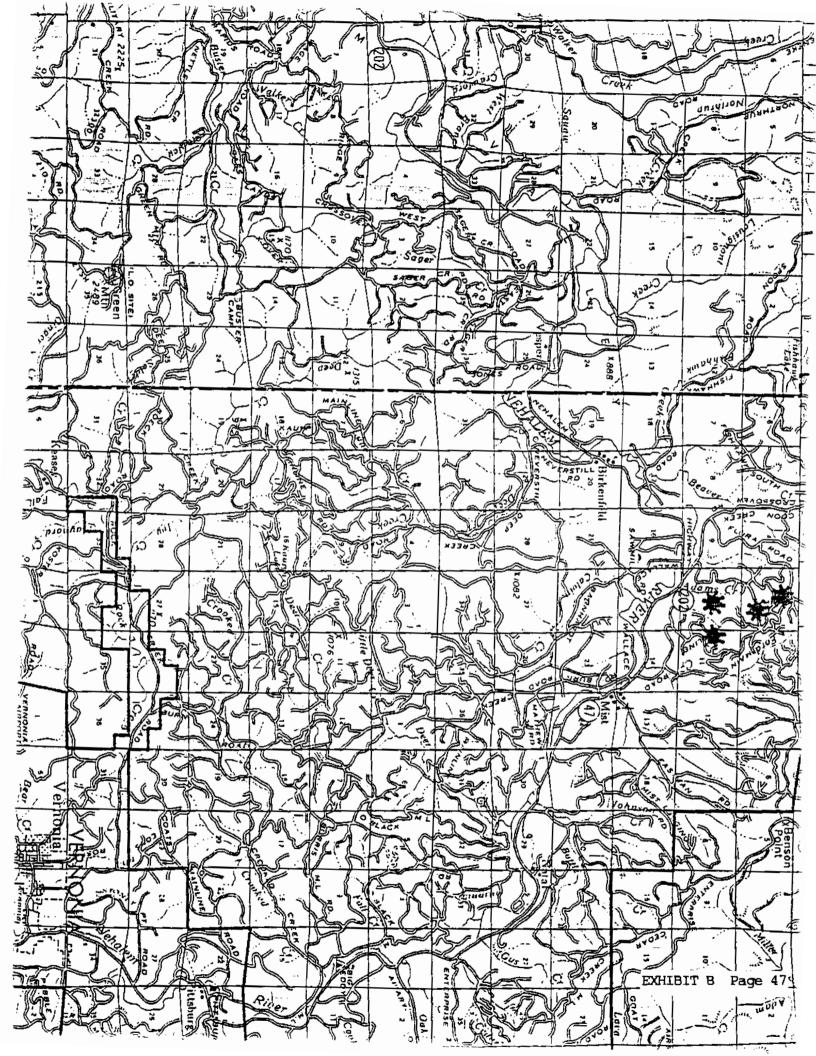
| MAILING ADDRESS: | Olympic Road, Mist Route Clatskanie, Oregon 97016 | LOCATION: | Olympic Road Mist, Oregon | , | | |
|---------------------|---|-----------------|------------------------------|---------------------------------------|------------|-----------------------|
| TELEPHONE | NO.: (503) _220=2573 | | | | | |
| | APPLICATION TO DRILL, (| OWN, OPERAT | E OR MAINTAIN | OIL WELL | | |
| | | Ţ | DATE: July 31 | | 19 . | 90 |
| | NISHEREBY REQUESTED OF THE MIST OR MAINTAIN IN ACCORDANCE W OIL WELL: | | | | | |
| | | | | | | |
| OWNER 1 | orthwest Natural Gas Co. | | | n. | | |
| ADDRESS | 220 N.W. Second Ave., Portla | nd. Or. 972 | 09 | | | |
| APPLICANT | Northwest Natural Gas Co. | | | · | | |
| ADDRESS | 220 N.W. Second Ave., Portland | d. Or. 9720 | 9 | · · · · · · · · · · · · · · · · · · · | | - 1 - 1 - 1 |
| NAME OR I | NO. OF WELL <u>IW 13b-11</u> | LEASE NA | ME <u>Northwest</u> | · :Natural Gas (| ٥. | |
| LOCATION | (NEAREST STREET ADDRESS OR LEG | GAL DESCRIPTION | ON) <u>270' Nort</u> | h and 350' Eas | : t | |
| | the west & corner of section | | | | 1 | |
| | ham Forest Industry - Surface | | - | , | *10 m | |
| | , | | | | 14 | |
| NAME OF | OIL FIELD <u>Mist Underground Stor</u> | BY BY | la. Tho | w-y | | 2-2-3-3-3 V - 3-32 |
| | | TELEPHONE | NO. (503) 22 | 0-2573 | | |
| REMÁRKS: | SUBMIT PLOT PLAN SHOWING LOC | ATION OF EAC | H WELL | | | |
| | OF \$100.00 MUST BE PAID WHEN | | | | | CASH, |
| • | PERMIT ISSUEDF | PERMIT NUMBE | R | _RECEIPT NUMBE | R | 17/15% |
| | | • | (| | | ૽ૼ |

| ADDRESS: | Olympic Road, Mist Route LOCATION: Clatskanie, Oregon 97016 | Olympic Road Mist, Oregon | • | | |
|-----------|---|------------------------------|---------------|----------------|---|
| TELEPHON | E NO.: (503) | | | | |
| | APPLICATION TO DRILL, OWN, OPERAT | E OR MAINTAIN | OIL WELL | ;- | erija sa Tarihi Tarihi |
| | | DATE: | July 31 | 19 | 90 |
| OPERATE (| N IS HEREBY REQUESTED OF THE MIST-BIRKENFELD R OR MAINTAIN IN ACCORDANCE WITH THE DISTI OIL WELL: | | | | |
| OWNER _ | Northwest Natural Gas Co. | | . . | | |
| ADDRESS | 220 N.W. Second Avenue, Portland, O | R 97209 | | | |
| APPLICANT | Northwest Natural Gas Co. | | | <u> </u> | |
| ADDRESS | 220 N.W. Second Avenue, Portland, O | R 97209 | | | : |
| NAME OR | , NO. OF WELL <u>IW^{33ac-3} </u> | ME <u>Northwes</u> | t Natural Gas | Co. | |
| | (NEAREST STREET ADDRESS OR LEGAL DESCRIPTI | ON)1700 ' W | est and 1070' | South | |
| | the east 1/4 corner of Sec. 3; T6N; R5W | | | | , धर्मी स्टब्स् |
| Cave | nham Forest Industries - surface owner | | | # - | 3 (A.M.) (A.M.) |
| NAME OF | OIL FIELD Mist Underground Storage | <u> </u> | | | |
| | ВУ | Hamm | | | े कर हो है है |
| | TELEPHONE | NO |) 220-2573 | <u> </u> | |
| REMARKS: | SUBMIT PLOT PLAN SHOWING LOCATION OF EAC | CH WELL. | | | 5 s |
| | E OF \$100.00 MUST BE PAID WHEN APPLICATION MONEY ORDER PAYABLE TO THE MIST-BIRKENFE | | | | CASH, |
| · | PERMIT ISSUEDPERMIT NUMBE | | RECEIPT NUMBE | R | |

| | Olympic Road, Mist Route L Clatskanie, Oregon 97016 | OCATION: | Olympic Road Mist, Oregon | | | -7 |
|-----------|---|--------------|------------------------------|--------------|---------------|-----|
| TELEPHONE | NO.: (503). 220-2573 | | | | . ¥ | |
| | APPLICATION TO DRILL, OW | /N, OPERATE | E OR MAINTAIN | OIL WELL | gasti mere de | |
| | | | DATE: | July 31, | 19 <u>90</u> | ٠. |
| | NISHEREBY REQUESTED OF THE MIST-BI OR MAINTAIN IN ACCORDANCE WITH OIL WELL: | | | | | |
| OWNER _ | Northwest Natural Gas Compa | ny | | ٠. | | |
| ADDRESS . | 220 N.W. Second Avenue, Por | tland, OR | 97209 | | | |
| APPLICANT | Northwest Natural Gas Compa | ny | | | | |
| ADDRESS . | 220 N.W. Second Avenue, Por | tland, OR | 97209 | | | |
| NAME OR I | NO. OF WELL IW23d-3 | _ LEASE NA | ME Northwest | Natural Gas | Co. | |
| LOCATION | (NEAREST STREET ADDRESS OR LEGAL | L DESCRIPTIO | ON) | , d | | - |
| 330' Sc | uth and 2470' East from the wes | t 1/4 corne | er of Sec. 3; | T6N; R5W | | |
| Longvie | w Fibre Co surface owner | | | , | | - A |
| NAME OF C | OIL-FIELD Mist Underground Stor | rage | | | | . 3 |
| | | rolado | Thomas | <u> </u> | | |
| | ī | ELEPHONE 1 | NO. (503) | 220-2573 | | 12. |
| REMARKS: | SUBMIT PLOT PLAN SHOWING LOCATE | | , | | | 4 |
| | OF \$100.00 MUST BE PAID WHEN A MONEY ORDER PAYABLE TO THE MIS | T-BIRKENFELD | O RURAL FIRE P | ROTECTION DI | STRICT. | н, |
| · | PERMIT ISSUEDPER | WIT NUMBER | <u> </u> | _RECEIPT NUM | 3ER | · |

| MAILING ADDRESS: | , , | d, Mist Route Oregon 97016 | LOCATION: | Olympic Road Mist, Oregon | | |
|---------------------|-------------|---------------------------------------|---------------|---------------------------------------|--|--|
| TELEPHONE | | 220-2573 | _ | mist, Oregon | 1 | |
| | API | PLICATION TO DRILL, | OWN, OPERAT | E OR MAINTAI | IN OIL WELL | |
| | | | | DATE: | July 31, | , 19 <u>90</u> |
| | R MAINTAIN | QUESTED OF THE MIS IN ACCORDANCE V | | | | |
| OWNER _ | Nort | hwest Natural Gas | Company | | | |
| ADDRESS . | 220 | N.W. Second Avenu | e, Portland, | OR 97209 | | . : |
| APPLICANT | Nort | hwest Natural Gas | Company | | | |
| ADDRESS | - | N.W. Second Avenu | e, Portland, | OR 97209 | | · · · |
| , | NO OF WELL | IW32c-10 | 1EASE NA | ME Northwe | est Natural Gas | Co. |
| LOCATION | (NEAREST ST | REET ADDRESS OR LE | GAL DESCRIPTI | | orth and 2670' | |
| the | west 1/4 co | orner of Sec. 10 T | '6N; R5W | | | 24 5 4 6 42 34 5 |
| Lons | view Fibre | Co. surface owner | | • | | ************************************** |
| NAME OF | OIL FIELD | Mist Underground | Storage | · · · · · · · · · · · · · · · · · · · | · | |
| | | | 87 | Home | <u>/ · · · </u> | |
| | | | TELEPHONE | NO |) 220-2573 | |
| REMÁRKS: | SUBMIT PLOT | PLAN SHOWING LO | | , | | |
| | | MUST BE PAID WHE | | | | |
| • | PERMIT IS | SUED | PERMIT NUMBE | R | RECEIPT NUMBE | R |





SIDE ONE

| | NOTIFICATION OF OPERATION / APPLICATION FOR PERMITS STATE OF OREGON DEPARTMENT OF FORESTRY DEPARTMENT OF REVENUE | Notification No | | | | | | |
|--|--|------------------------------|--------------------------------|--|--|--|--|--|
| 1 County (Enter only o | ne): Columbia | Previous nonincagon no. | | | | | | |
| 2 | Check Appropriate Boxes (2A, 2B, 2C, or 2D). | FPH Tax Class: | | | | | | |
| | X 2A NOTICE TO THE STATE FORESTER THAT OPERATION WILL BE CONDUCTED ON LANDS DESCR | | Date Received: | | | | | |
| | 28 APPLICATION FOR PERMIT TO OPERATE POWER DRIVEN MACHINERY (ORS 477.625). Expires a 2C APPLICATION FOR PERMIT TO CLEAR RIGHTS-OF-WAY (ORS 477.685). | t end of calendar year. | Data riscarred. | | | | | |
| | 2D NOTICE TO THE STATE FORESTER AND THE DEPARTMENT OF REVENUE OF THE INTENT TO H | ARVEST TIMBER (ORS 321 550). | Time Received: | | | | | |
| 3 | Person to be contacted in case of Fire Emergency (Designated Representative). Phone No. PLEASE PRINT! (503) 220-2573 (day) Todd A. Thomas (503) 359-4956 (night) | | District | | | | | |
| _ | HE FAR LEFT COLUMN TO INDICATE WHO FILLED OUT THE APPLICATION. | | Office: | | | | | |
| X. 4 Operator Information | Name/Title Todd Thomas - Senior Operations Superintendent Company Name | | Subscriber: | | | | | |
| incompalion | Northwest Natural Gas Co. Mailing Address-Street | | Subscriber: | | | | | |
| | 220 N.W. Second Ave. | | Subscriber: | | | | | |
| | City, State and Zip Code Phone | | 3000000 | | | | | |
| | Portland, OR 97209 (50: | 3) 220-2573 | Subscriber: | | | | | |
| 5 Landowner | riding (tild | | RC: | | | | | |
| Information | Company Name | | Nu | | | | | |
| | Longview Fibre Co. Mailing Address - Street | | EG: | | | | | |
| | P.O. Box 667 | | | | | | | |
| | City, State and Zip Code Phone | No. 5) 425-1550 | S: Names of Class 1 Waters: | | | | | |
| | Name/Title | | | | | | | |
| 6 Timberowner and | Company Name | | | | | | | |
| Harvest Tax | Longview Fibre Co. | : | | | | | | |
| Payer | Mailing Address - Street | | | | | | | |
| | P.O. Box 667 City, State and Zip Code Phone | N- | | | | | | |
| | | %) 425-1550 | | | | | | |
| 11 | Timberowner Employer Identification Number or Social Security Number | 1 | # · · · · · · · | | | | | |
| | | | Other Nates: | | | | | |
| 7 Timber Sale Name and/or No. | | | | | | | | |
| 8 WESTERN OREGON Is any timber being herves | PRIVATE LAND ONLY! Node Part All Al | WOSTOT Certificate Number | | | | | | |
| • | or "All" please list like number in the "WOSTOT" Certificate Number box. | | | | | | | |
| ORM 629-6-2-1-002a 10/89 | | | | | | | | |

SIDE ONE

| | NOTIFICATION OF OPERATION / APPLICATION FOR PERMITS STATE OF OREGON | Notification No. |
|----------------------------------|--|---------------------------|
| | DEPARTMENT OF REVENUE | Previous Notification No. |
| 1 County (Enter only one): | yone): Columbia | |
| 2 | Check Appropriate Poxes (2A, 2B, 2C, or 2D). Check Appropriate Poxes (2A, 2B, 2C, or 2D). | FPH Tax Class: |
| | | Date Received: |
| | | |
| | 2D NOTICE TO THE STATE FORESTER AND THE DEPARTMENT OF REVENUE OF THE INTENT TO HARVEST TIMBER (ORS 321.550). | Time Received: |
| 3 | Person to be contacted in case of Fire Emergency (Designated Regimeentative). Phone No. PLEASE PRINT! | District |
| | Todd Thomas (503) 359-4956 (night) | |
| CHECK ONE BOX IN | CHECK ONE BOX IN THE FAR LEFT COLUMN TO INDICATE WHO FILLED OUT THE APPLICATION. | Office: |
| X | Name/Title | |
| 4 Operator | Todd Thomas - Senior Operations Superintendent | Subscriber: |
| information | Company Northwest Natural Gas Co. | Subscriber |
| | Mailing Address: Street 220 N.W. Second Ave. | E. Proceiros |
| | Cry. State and Zip Code Phone No. Phone No. (503) 220-2573 | Subscriber |
| 5 Landowner | Name/Title | |
| | Company Name Cavenham Forest Industries | Fa. |
| | Making Address - Street | |
| | 62424 N. Nehalem Highway | 99 |
| | City, State and Zip Code | Names of Class 1 Waters: |
| | | |
| and | Company Name | |
| Harvest Tax | Cavenham Forest Industries | |
| Payer | | |
| 20- | ighway | |
| | City. State and Zip Code Phone No. (503) 429-6102 | |
| | Timberowner Employer Identification Number or Sociel Security Number | Other Notes: |
| 7 Timber Sale Name and/or No. | 9. | |
| 8 WESTERN OREG | 8 WESTERN OREGON PRIVATE LAND ONLY! Is any limber being harvested certified under the Western Oregon Smell Tract Optional Tax (WOSTOT) program? | |
| | None Part AI | |
| FORM 629-5-2-1-002m 10/89 | BILL OF THE PRESENTATION THE PROPERTY OF THE P | |

SIDE TWO

| LEGAL DESC | | | | | | | | | | OF OPERATION SCRIPTIONS | | | | | | | | 11 a. ACTIVITY | | 12. WEST. 13. SITE CONDITIONS OREGON D100, D1, D2, D3 | PLANS | REGULATED | | | | |
|---|--|--|----------------|--|--|-----------------|----------|------------|--|------------------------------------|----------|-------|----------|-------------|------|--------|----|-------------------|----------------|--|----------------|--------------|--|---------------------------------------|-------------------------|-----------|
| FPF | | Activity | Methods | Quantity (by unit) | Approx. MBF (by unit) | ne n | N E | \Box | Ņ | w | | | w | \Box | | SĘ | | S E C | т ₩ Р | R G E | STARTING | ENDING | SEVERANCE TAX UNIT | T1, T2, T3 S1, S2, S3 | AND PRIOR APPROVALS: | USE |
| No.(s | Number | Codes | Dozer, backhoe | Acres/Feet | Removed | ne n | w sw | 50 1 | 16 RW | 3W | 88 1 | NB N | N 5W | 50 | ne n | sw sw | | 3 | 6N | 5W | 9/15/9 | 9/30/ | NUMBER | D3,T1,S2 | SEE CODES. | |
| | ^ - | | DOZET, DACKINE | 134 | | \vdash | + | \Box | + | H | + | + | + | H | - | +- | + | - - | | - | 1, 2, 7 | 7,30, | [| D3,11,32 | | · |
| | | | n t > | | | | +- | ╁ | + | H | -† | + | | H | + | + | +- | 11 | 6N | 5W | 10/1/9 | 10/30 | 190 | D3,T1,S2 | | |
| \vdash | 2 | 3 | Dozer, backhoe | .5A | | ╁ | ┿ | ╁ | ╁ | + | + | +^ | + | \vdash | | + | 十 | | ON | , JW | 10/1/9 | 10/30 | 120 | D3,11,52 | | |
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| }— | ┼ | | | | | ۲-۲ | Comp | lete F | or Ar | eas (| Outs! | de ol | I Rea | L_1 ular | Sect | Lions. | | | - | - | <u> </u> | ACTIVITY | WEST, OR. | SITE CONDITIONS | WRITTEN PLANS | |
| FPF | Unit | Activity | Methods | Quantity | Approx. MBF | | | | | | | | _ | | | | | s | т | А | ACTIVITY | 1 | SEVERANCE | D100, D1, D2, D3 | AND PRIOR | REGULATED |
| | | | | (by unit) | (by unit) | | 1 | 4. I | | IN (MBE | | | | | נסו | | | € | w | G | STARTING | ENDING | TAX UNIT | T1, T2, T3, \$1, \$2 | APPROVALS: | USE |
| No.(1 |) Number | Codes | Used | Acres/Feet | Removed | - | | | | _ | | | _ | | | | | ç | Р | E | DATE | DATE | NUMBER | 53, DW\$, WG, SW | SEE CODES. | AREA |
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| 9 — | | | | | <u></u> | | | . <u> </u> | | _ | _ | _ | _ | _ | | | | <u> </u> | <u>L</u> | | <u> </u> | | <u> </u> | <u> </u> | <u>-</u> | |
| 검음 | 15. If the applicant wants a waiver of the 15 day waiting period, check the box. 16 a. Print name of applicant here. 16 b. Date application was signed. | | | | | | | | | 16 de considera parled conhect has | | | | | | | | | | | | | | | | |
| B | 15. If the applicant wants a waiver of the 15 day waiting period, check the box. 16 a. Print name of applicant here. 16 b. Date application was signed. Todd A. Thomas 17. I (applicant perify that all information I have provided is line and correct, (Stonature) | | | | | | | | 15 day waiting period walved by: Date: | | | | | | | | | | | | | | | | | |
| 17. I (applicant) certify that all information have provided is true and correct. (Signature) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>:</u> | 400 | XX <u>CV</u> . | Jones | | | | | | | | | | _ | | | _ | | | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| Pac | 17. ((applicant partiny that all information in the provided is true and correct. (Skyriature) 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
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