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

O&G PERMIT #: 447

API #: 36-009-00273

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 ORS 520, application is hereby made for permit to drill

(a gas well) (an oil well) to be known as Nahama & Weagant Energy Co. (Company or operator) Cavenham Energy Resources (Lease) CER 41-21-64 (Well No.)

in NE 1/4 of Sec. 21, T. 6N, R. 4W W.B.M. Directional? No XX Yes ____

Survey Coordinates: 1200' south & 500' west from the NE corner

Wildcat: XX (or) Field Name: ____ County: Columbia

Elevation of ground above sea level is 1,120 feet. All depth measurements are taken from Kelly Bushing, which is 11.4 above ground.

Lessor (Mineral Owner): Cavenham Energy Resources
Address: 1500 S.W. 1st Avenue Portland, OR 97201

Surface Owner: Cavenham Forest Industries
Address: 62424 N. Nehalem Highway Vernonia, OR 97064

Lessee: ARCO Oil & Gas Co.
Address: P. O. Box 147 Bakersfield, CA 93302

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
12¼"	8-5/8"	24	J-55	400'	290sx
7-7/8"	5½"	10.5	J-55	2,500'	300sx

Geologic Objectives Clark & Wilson sand

Proposed Depth 2,500'

Company/Operator Oregon Natural Gas Development Corp.

Signature ____

Position Senior Operations Superintendent

Date ____

SEND WELL COMMUNICATION TO:

Name Todd A. Thomas

Address 221 N.W. Second Avenue
Portland, OR 97209

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

DOGAMI Approved September 17, 1990
The July 1987 stipulations approved by the State Geologist are conditions of this permit. Notify DOGAMI to witness BOP test.

By Dennis L Olmstead
Dennis L. Olmstead, Petroleum Engineer

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.

Form 1
(5-85)