

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

O&G PERMIT #: 459

API #: 36-009-00285

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) to be known as Nahama & Weagant Energy Co. Columbia County CC 44-8-64

(~~an oil well~~) (Company or Operator) (Lease) (Well No.)

in SE 1/4 of Sec. 8, T 6N, R 4W Directional? No  Yes  Survey Coordinates (if yes, BHL & SHL):  
900'W and 750'N from SE corner

Wildcat:  (or) Field Name: \_\_\_\_\_ County Columbia

Elevation of ground above sea level is 1080 feet. All depth measurements are taken from Kelly Bushing, which is 11.4 above ground.

Lessor (Mineral Owner): Columbia County  
Address: Courthouse, St. Helens, OR 97051

Surface Owner: Cavenham Forest Industries  
Address: 62424 No. Nehalem Highway, Vernonia, OR 97064

Lessee: ARCO Oil and Gas  
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 |
|--------------|----------------|---------------------------|------------|-------|------------------|
| 12 1/4"      | 8-5/8"         | 24                        | J-55       | 450'  | 300 SX           |
| 7-7/8"       | 4 1/2"         | 10.5                      | J-55       | 1870' | 150 SX           |
|              |                |                           |            |       |                  |
|              |                |                           |            |       |                  |

Geologic Objectives Clark and Wilson Sand

Proposed Depth 1870' TVD Company/Operator NAHAMA & WEAGANT ENERGY CO.

Signature Trent Rosenlieb

Position Engineer

Date 5-22-91

SEND WELL COMMUNICATION TO:

Name Trent Rosenlieb, c/o NVEC

Address 602 "H" St.

Bakersfield, CA 93304

Phone (805) 323-9075 (Day) (805) 323-9775 (Night)

DOGAMI approved June 19, 19 91  
A log is required to confirm the cement of production casing is at least 500' above the perforations of the gas zone, or at least 100' above any fluid bearing zone, whichever is higher. The July '87 stipulations are conditions of this permit.  
by [Signature]

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.