

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 ARCO Oil and Gas Company Hanna #1  
 (an oil well) (Company or operator) (Lease) (Well No.)

in NE 1/4 of Sec. 23, T. 2S, R. 27E W.B.&M. Directional? No X Yes

Survey Coordinates: 1900' S and 1400' W of NE Corner

Wildcat: XX (or) Field Name: Wildcat County: Morrow

Elevation of ground above sea level is 3220 feet. All depth measurements are taken from \_\_\_\_\_, which is ± 20' above ground.

Lessor (Mineral Owner): Mr. and Mrs. John L. Hanna

Address: Route 2, Box 2374 Heppner, Oregon 97836 6769778

Surface Owner: Mr. and Mrs. John L. Hanna

Address: Route 2, Box 2374 Heppner, Oregon 97836

Lessee: ARCO Oil and Gas Company

Address: 4550 California Avenue, Bakersfield, CA 93309

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
36	24	94.6	H-40	40	230 CF
22	16	75	K-55	1600	3330 CF
14-3/4	9-5/8	47.0	L-80	5200	4360 CF
8-1/2	5-1/2	17	K-55	8500	2210 CF

Geologic Objectives Herren at 5,000' TVD

Proposed Depth 9,000'

Company/Operator ARCO Oil and Gas Company

Signature Rwangll Park 12/23/87

Position District Drilling Superintendent

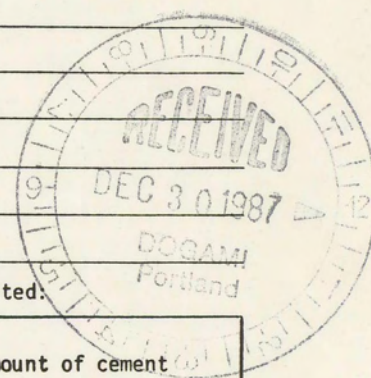
Date December 14, 1987

SEND WELL COMMUNICATION TO:

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ (Day) \_\_\_\_\_ (Night)



DOGAMI Approved January 19 \_\_\_\_\_, 19 88  
 The July 1987 stipulations approved by the State Geologist are conditions of this permit. Notify DOGAMI to witness BOP test.  
 By Dennis Z Olushead

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.

RBS 12/14/87