

MISCELLANEOUS APPLICATION

(In compliance with rules and regulations pursuant to ORS 520)

ARCO OIL AND GAS COMPANY Columbia County #4  
(Company or operator) (Lease) (Well No.)

Sec. 15, T. 6N, R. 5W M.B.&M. Surveyed Coordinates: N50°48'33"E 1439.14' & S87°51'23"W 1148.64' from NW Corner Section 15, Township 6 North, Range 5 West

Wildcat: \_\_\_\_\_ (or) Field Name: MIST County: COLUMBIA

Date: 9/21/90 Signature: [Signature]  
Position: KWANG-U PARK, DIST DRLG SUPERINTENDENT

Use this form for applications to redrill, deepen, rework, abandon, or any other proposed procedure on an existing well. This form must be submitted unless verbal approval has been given. This application becomes a permit when signed and dated by DOGAMI in the box below.

The present condition of the well, including complete casing record, is as follows:

CASING	PERFORATIONS	CURRENT STATUS: Shut-In
Conductor @ ?	2321'-2337'	Shut-in
7" 23# @ 401'	2347'-2390'	
4-1/2" 10.5# @ 2679'	2403'-2409'	

Following is a detailed account of proposed work:

1. RIH with tubing, lay plug 2460'-2270'
2. WOC, RIH tag top of plug.
3. Fill hole with mud.
4. Lay 10' surface plug.
5. Cut casing, remove wellhead.
6. Cap well. Reclaim site: scrape off rock and pile to one side, as per Tom Budge, Longview Fibre.

Company/Operator ARCO OIL AND GAS COMPANY  
Signature [Signature]  
Position: Kwang-U Park, Dist Drlg Superintendent  
Date: 9/21/90  
SEND WELL COMMUNICATION TO:  
Name: Kwang-U Park  
Address: ARCO OIL AND GAS COMPANY  
P. O. Box 147, Bakersfield, CA 93302  
Phone: (805) 321-4000

DOGAMI Approved September 25, 1990  
The July 1987 stipulations approved by the State Geologist are conditions of this permit. Notify DOGAMI 24 hours prior to commencing of operations.  
By [Signature]  
Dan E. Wermiel, Petroleum Geologist

Form 2  
(12/85)

MISCELLANEOUS APPLICATION

(In compliance with rules and regulations pursuant to ORS 520)

ARCO Oil and Gas Company Columbia County #4  
(Company or operator) (Lease) (Well No.)

Sec. 15, T. 6N, R. 5W M.B.&M. Surveyed Coordinates: \_\_\_\_\_  
867'S & 1149'W from the NE Corner

Wildcat: Yes (or) Field Name: Mist County: Columbia

Date: September 30, 1988 Signature: \_\_\_\_\_  
Position: District Drilling Superintendent

Use this form for applications to deepen, rework, abandon, or any other proposed procedure on an existing well. This form must be submitted unless verbal approval has been given. This application becomes a permit when signed and dated by DOGAMI in the box below.

The present condition of the well, including complete casing record, is as follows:

- See Well History
- 7" 23# K-55 STC 0' - 401'
  - 4-1/2" 10.5# K-55 LTC 0' - 2,473'
  - 2-3/8" 4.7# J-55 EUE 8RD 0' - 2,254'
  - Perf's 2,316' - 2,324'

Following is a detailed account of proposed work:

1. TIH w/ tubing ± 2,375'.
2. Lay balanced plug w/ 20 sx cement.
3. POOH to ± 2,180'. Circulate 9.5 - 10.0 ppg drilling mud to displace produced water (leave mud between plugs).
4. TIH. Tag TOC as per DOGMI witness (plug must be at least 2,266').
5. POOH. Pump 20' surface plug using ± 2.0 sx cement. Ensure annulus between 4-1/2" and surface casing is cemented.
6. Cut off casing 5' below ground level.
7. Backfill cellar and reclaim location as per surface agreement.

Company/Operator ARCO Oil and Gas Company  
Signature [Signature]  
Position: District Drilling Superintendent  
Date: Oct 4, 1988  
SEND WELL COMMUNICATION TO:  
Name: Kwang U. Park  
Address: P.O. Box 147  
Bakersfield, CA 93302  
Phone: (805) 321-4060

DOGAMI Approved October 12, 1988  
Call DOGAMI to tag first plug.  
By [Signature]  
Dennis L. Olmstead, Petroleum Engineer

Form 2  
(10/84)