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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

.1 DATE Feb. 16, 1978 Vice President SIGNED / TITLE ____ -----(This space for Federal or State office use) ora. 2-28-78 PERMIT NO. APPROVAL DATE ____ ACTING DISTRICT ENGINEER MAR 3 - 1978 TITLE APPROVED BY CONDITIONS APPROVAL, IF AND APPROVAL IS RESCINDED IF OPERATIONS . MONTHS. 71415 NOT COMMENCED WITHIN 3 ARE 3 *See Instructions On Reverse Side JUN

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APPLICATION FOR DRILLING

Harvey E. Yates Company China Canyon ARCO Federal #1 Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill, subject well in Section 28, Township 23S, Range 24E, Eddy County, New Mexico, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with U. S. G. S. requirements.

- 1. The geologic surface formation is quaternary alluvium and bolson deposits and other surficial deposits.
- 2. The estimated tops of geologic markers are as follows:

Queen	300'
Cherry Canyon	1175'
TD	1200'

3. We do not anticipate finding water but have listed the formations in which we anticipate finding oil or gas:

Cherry Canyon 1175'

- 4. Proposed casing program: See Form 9-331C.
- 5. Pressure control equipment: Cable tools rig with control head
- 6. Mud program: See Form 9-331C.
- 7. Auxiliary equipment: Control head.
- 8. Testing, logging and coring programs: Sidewall Neutron log will be run. No coring or DST's are planned.
- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated starting date: As soon as possible after approval but no later than March 1, 1978.

RECEIVED

HARVEY E. YATES COMPANY China Canyon ARCO Federal #1 Sec. 28, T-239, R-24E Eddy County, New Mexico

FEB 1 7 1978

U.S. GEOLUGICAL SURVEY ARTESIA, NEW MEXICO

1. EXISTING ROADS:

A. Exhibit A is a portion of a highway map showing the location of the proposed well. The location is accessible by two routes and they are as follows: <u>Route 1:</u> Leave Carlsbad on U. S. Highway 285 heading northwest. Travel approx-imately 8 miles or until you come to New Mexico Highway 137. Turn left and continue for about 18 miles on Highway 137. At this point there is

a road heading southeast. Turn on this road and travel for 5.5 miles.

Turn left and our proposed location is about 300' due northeast.

Route 2:

Leave Carlsbad and travel southwest on U. S. Highways 62 and 180 for about 5 miles; approximately 1 mile south of the port of entry there is a road that turns west. Take this gravel road and continue for about 15 miles (Wooten Ranch is 1/4 mile past turn-off to proposed location. Our proposed location is about 300' due northeast.

B. Exhibit B is a plat showing all existing roads in the area and the portion of road that will be built.

2. PLANNED ACCESS ROADS:

A. We propose to build 300' of new road to our location from the improved gravel road. The road will be 12' wide and 6" compacted caliche.

3. LOCATION OF EXISTING WELLS:

A. This section has no existing wells or dry holes.

4. LOCATION OF TANK BATTERIES, ETC.:

A. There are no tank batteries or any other type of production facilities on this section.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. Water will be obtained from commercial sources.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche will be needed to build the new road and cable tools pad and will be obtained from a federal pit located 1/4 mile east of our proposed location and on the south side of the road.

Harvey E. Yates Company China Canyon ARCO Federal #1 Page 2

- 7. METHODS OF HANDLING WASTE DISPOSAL:
 - A. Waste will be buried in reserve pits at a depth of 24". The well site will be cleaned of all waste and this will be done within 30 days after completion of the well.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, reserve pits and major rig components.
- B. The terrain is relatively flat with a hard sand surface.
- C. No unusual amount of cut and fill will be required.
- D. The pad and pit area have been staked.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After finishing drilling and/or other completion operations, all equipment and other material not needed for further operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite as pleasant in appearance as possible.
- B. If the proposed well is non-productive, all restoration and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as quickly as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

- A. The surface is Federal surface.
- B. The topography consists of flat surface of hard sand with native grasses, catclaw etc. No wildlife was observed, but the usual inhabitants of this region are jackrabbits, reptiles, coyotes, etc.
- C. There are no ponds, lakes, streams or rivers in the area.
- D. There are no occupied dwellings or windmills in the area of the wellsite.
- E. There is no evidence of any archeological, historical or cultural sites in the area.

Harvey E. Yates Company China Canyon ARCO Federal #1 Page 3

12. OPERATOR"S REPRESENTATIVES:

A. The field representatives responsible for assuring compliance with the approved surface use and operations plan are:

Drilling:	Peck Hardee		Fred G. Yates		
	Harvey E. Yates Company Suite 300		Harvey E. Yates Company Suite 300		
	Security	National Bank Bldg.	Security	National Bank Bldg.	
	,	New Mexico 88201	Roswell,	New Mexico 88201	
		505/623-6601	Office:	505/623-6601	
	Home:	505/623-8980	Home:	505/622-5387	
	Mobile:	505/623-0989 #4114	Mobile:	505/623-0989 #4109	

13. CERIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by Harvey E. Yates Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

	Vice President
Date	Name and Title





EXHIBIT B

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Harvey E. Yates Company China Canyon ARCO Federal #1 Sec. 28, T-23S, R-24E Eddy County, New Mexico EXISTING ACCESS ROADS
PROPOSED NEW ROAD
PROPOSED DRILLSITE



EXHIBIT C Harvey E. Yates Company China Canyon ARCO Federal #1 Sec. 28, T-23S, R-24E Eddy County, New Mexico

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EXHIBIT D Harvey E. Yates Company China Canyon ARCO Federal #1 Sec. 28, T-23S, R-24E Eddy County, New Mexico