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*5 1/2" csg cementing program will be adjusted to cover any interval having oil or gas show

The acreage dedicated to well is mot committed to a gas cintract

Estimated Tops-Glorieta 2795'; Bone Springs 3300'; Wolfcamp 6700'; Cisco Reef 7300'; Cnayon 7500'; Strown 8350'; Atoka 8600'; Morrow 9000'; Barnett 9550'

Expected production from Top Cisco Reef to Morrow. Fresh water for drilling fluid to 7000', 10# mud with 2% KCL from 7000' to T.D.

It is proposed to take 1 D.S.T. in Cisco, Atoka and Morrow.

IN ABOVE SPACE DESCRIBE PROFOSED 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.

24. SIGNED MARCAN	Operator	Dec. 13, 1978
(This space for Federal or State office use)		· · · · · · · · · · · · · · · · · · ·
PERMIT NO.	APPROVAL DATE /- 4/- 4	79
APPROVED BY CONDITIONS OF APPROVAL, IF ANY :	TITLE	DATE

*See Instructions On Reverse Side

NMOCC COPY

RECEIVED

8 1979



United States Department of the Interior JAN

GEOLOGICAL SURVEY P. O. Drawer U Artesia, New Mexico 88210

D. C. C.

JAN 04 1379

William B. Barnhill P. O. Box 1354 Roswell, New Mexico 88201

Dear Mr. Barnhill:

WILLIAM B. BARNHILL Anadarko Federal No. 1 1980 FSL 2310 FWL Sec 34, T21S, R24E Eddy County Lease No. NM-8664

Above Data Required on Well Sign

Your APPLICATION FOR PERMIT TO DRILL the above-described well to a depth of 9,900 feet to test the Morrow is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Oil and Gas Operations on Federal Leases, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the Surface Use Plan and these Conditions of Approval including the attached General Requirements.
- 3. Submit a Daily Report of Operations from spud date until the well is completed and the Well Completion Report (form 9-330) is filed. The report should be not less than 8" x 5" in size and each page should identify the well.
- 4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Guidelines. The color used should simulate sandstone brown (Federal Standard Color No. 595A, color 20318 or 30318).
- 5. Before drilling below the 8-5/8" casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
- 6. A kelly cock will be installed and maintained in operable condition.
- 7. After setting the 8-5/8" casing string and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.

- 8. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the Wolfcamp formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following:
 - (1) A recording pit level indicator to determine pit volume gains and losses.
 - (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
 - (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
- 9. Notify the Survey in sufficient time to witness the cementing of the 8-5/8" casing.
- 10. Cement behind the 13-3/8" and 8-5/8" casing must be circulated.

Sincerely yours,

(Orig. Sgd.) ALBERT R. STALL

Albert R. Stall Acting District Engineer

N MEXICO OIL CONSERVATION COMMISSI WELL LOCATION AND ACREAGE DEDICATION PLAT

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APPLICATION FOR DRILLING

Wm. B. Barnhill Anadarko Federal Well No. 1 Section 35-T215-R2/E Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Wn. B. Barnhill submits the following ten items of pertinent information:

1. The geologic surface formation is the Seven Rivers formation.

- 2. Estimated tops of geologic markers: See Form 9-331C.
- 3. The depths at which anticipated water, oil or gas formations are expected to be encountered:

Vater: No specific data available. Probably from Seven Rivers formation at depth of less than 300 feet. Cil or Gas: See Form 9-331C.

1. Proposed casing program: See Form 9-331C.

5. Pressure control equipment: See Exhibit D.

- 6. Mud program: See Form 9-331C.
- 7. Auxiliary equipment: Blowout preventer, Inside blowout preventer, Kelly cock.

8. Testing, logging and coring programs: It is proposed to take one drill stem test in Cisco, Atoka and Morrow.

9. No abnormal pressures or temperatures are anticipated.

10. Anticipated starting date: January 16, 1979. Anticipated completion of drilling operations: approximately 45 days after starting date.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Wh. B. Barnhill Anadarko Federal No. 1 1980' FSL and 2310' FwL Section 35-T21S-R24E Eddy County, New Mexico (Exploratory Vell) DEC 1 5 1978

U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

This plan is submitted with Form 9-331C, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS.

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- A. Exhibit A is a topographic map of the area surrounding the vellsite, on a scale of one inch to a mile, showing in red the existing access roads leading to the location. The wellsite is located approximately 31.5 miles south and west from the intersection of Highways 285 and 82 in Artesia, New Mexico, and can be reached as follows:
 - Proceed south on Highway 285 from the intersection of Highways 265 and 82, for a distance of approximately 23 miles. At this point, turn right (west) on Sitting Bull Falls Road (highway 137).
 - (2) Continue on highway 137 in a generally southwest direction for a distance of approximately 5.3 miles, at which point, turn left (south) onto a dirt ranch road. As identification points in locating this road, you will pass (on your left) the Rocky Arroyo Cemetery, about a half-mile before reaching this road, and the Marvin Kenagy ranch house on your left, immediately before reaching this road.
 - (3) Upon entering the ranch road, you will intediately cross over a cattleguard and, after an additional 0.25 miles, you will cross another cattleguard. There are wire strands across the road at both cattleguards, which must be lowered to permit passing.
 - (4) Approximately 0.35 miles beyond the second cattleguard, there is an open caliche pit on the left. Turn right at this point onto another ranch road and continue in a generally southwest direction for approximately 1.3 miles. The new access road to the location will begin at that point on the right (west) side of the road and is clearly marked with surveyor's ribbons.
- D. The existing ranch road is on fee surface for approximately the first 0.25 miles and an agreement has been reached between the operator and the surface owner, concerning surface damages and restoration of the surface after operations have been completed.

Wm. B. Barnhill No. 1 Anadarko Federal Page 2

C. The existing road will be improved by blade scraping, and the surface will be covered, where necessary, with an appropriate thickness of compacted caliche. The driving surface of the road will be 12 feet in width and the road will be crowned in the center, with drainage on both sides. Turnouts will be constructed at approximately 1/4 mile intervals. The only cattleguards and fences involved are those mentioned in paragraph 1A(3), above.

2. PLANNED ACCESS ROAD.

- A. The planned access read will be built in a generally east to southuest direction, and will be approximately 500 feet in length. It will join the drilling pad as shown in Exhibit C. The read will pass through an existing fence, very close to the read's point of origin, and a cattleguard will be installed through the fence. The ground surface over the route of the proposed read is relatively level, and only minor leveling will be required. The driving surface of the read will be 12 feet in width and the surface will be covered with six inches of compacted caliche. The center of the read will be crowned, with drainage on both sides. No turnouts will be necessary and no culverts are involved.
- 3. LOCATION OF EXISTING WELLS.
 - A. Other drilling activity in the vicinity of the proposed well is indicated in Exhibit B. The nearest production is more than two miles from the proposed location.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.
 - A. There are no production facilities on this lease at the present time.
 - 3. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive of oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.
- 5. LOCATION AND TYPE OF WATER SUPPLY.
 - A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from privately owned or commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.
- 6. SCURCE OF CONSTRUCTION MATERIALS.
 - A. Any caliche required for construction of the drilling pad and the new access road, as well as for any resurfacing or repair of the existing ranch roads, will be obtained from an existing federallyowned pit, and will be hauled to the location over the existing and proposed roads shown in Exhibit A.

Em. B. Barnhill No. 1 Anadarko Federal Page 3

- 7. JETHODS OF HANDLING WASTE DISPOSAL.
 - A. Drill cuttings will be disposed of in the reserve pits.
 - B. Drilling fluids will be allowed to evaporate in the recerve pits until the pits are dry.
 - C. Unter produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the USGS for approval.
 - D. Oil produced during operations will be collected in tanks until sold.
 - E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
 - F. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 2½ inches of dirt. All waste materials will be contained to prevent scattering by the wind.
- 8. ANCILLARY FACILITIES.

A. None required.

- 9. MELLISITE LAYOUT.
 - A. Exhibit C shows the relative location and dimensions of the well pad, reserve pits, and major rig components.
 - 5. Minor cut and fill will be required to level the location. A cut of approximately 3 feet will be required at the northeastern edge of the pad and fill of about 3 feet will be required at the southwestern corner of the pad. A cut of approximately 2 feet will be required at the northeastern edge of the pit area.
 - C. The reserve pits will be plastic-lined.
 - D. The location has been surveyed, staked and flagged.
- 10. PLANS FOR RESTORATION OF THE SURFACE.
 - A. After drilling and/or completion operations have been finished, all equipment and other materials not needed for further operations will be removed. Pits will be filled and the location cleaned of all trash and junk in order to leave the wellsite in as aesthetically pleasing a condition as possible.
 - E. Any unguarded pits containing fluids will be fenced until they have been filled.
 - C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the U. S. Geological Survey will be complied with and will be accom-

Mm. B. Barnhill No. 1 Anadarko Federal Page 4

plished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

- 11. OTHER INFORMATION.
 - A. Topography: The proposed wellsite is located in a mountainous area with major changes in surface elevation.
 - B. The topsoil at the wellsite is moderately hard sandy loam, with rocks covering most of the area.
 - C. Flora and Fauna: The vegetation cover at the location is sparse, consisting of cactus, yucca, lechuguilla, grass, weeds, and a few mesquite. No wildlife was observed, but there was evidence of the presence of deer, and it is likely that other typical wildlife inhabit the area. The area is used for cattle grazing.
 - D. The nearest occupied dwelling is the Kenagy ranch house, located slightly less than two miles north and east of the wellsite. There are no windmills in the immediate vicinity of the location.
 - E. The nearest surface water is the creek adjacent to the Kenagy ranch house.
 - F. Surface ownership: The wellsite is on federally owned land, with federal ownership of the minerals. As indicated in paragraph 1B, a portion of the existing access road is on fee surface.
 - G. There is no evidence of any significant archeological, historical or cultural sites in the area of the proposed location. An archeological survey has been conducted by New Mexico Archeological Services, Inc., of Carlsbad, New Mexico, and their report has been submitted to the appropriate government agencies.
- 12. OPERATOR'S REPRESENTATIVE.

The representative of the operator responsible for assuring compliance with the approved surface use plan is: Nm. B. Barnhill

> F. C. Box 1354 233 Petroleum Building Roswell, New Mexico 88201 Telephone: 505-622-0540 (office) 505-622-0438 (home)

13. CERTIFICATION.

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 NM. B. Barnhill and his contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

12/15/78 Date

levard Edward N. Lucking, Agent for m. E. Barnhill







EXHIBIT C Wm. B. Barnhill Anadarko Fed. #1 Sec. 35-T21S-R24E Eddy County, N.M.

Erchibit D Mm. B. Barnhill Anadrako Fed. #1 Sec. 35-T21S-R24E Eddy County, N.M.

