SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

reverse side) <u> 10 - 039 - J</u>2088 DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY Jicarilla Contract 155 6. IF INDIAN, ALLOTTER OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Jicarilla Apache 1a. TYPE OF WORK DRILL 🟝 7. UNIT AGREEMENT NAME DEEPEN PLUG BACK b. TYPE OF WELL OIL SINGLE ZONE MULTIPLE ZONE WELL X WELL 8. FARM OR LEASE NAME отнев 2. NAME OF OPERATOR Jiearilla Contract 155 AMOCO PRODUCTION COMPANY 9. WELL NO. 3. ADDRESS OF OPERATOR 22K 501 Airport Drive, Farmington, New Mexico 87401 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Basin Daketa 11. SEC., T., R., M., OR BLK 1670' FSL & 1645' FWL, Section 31, T-26-N, R-5-W NE/4 SW/4 Section 31, At proposed prod. zone Same T-26-N, R-5-W 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12. COUNTY OR PARISH | 13. STATE 24 miles morthwest of Commselors, New Mexico Rio Arriba New Mexico 15. DISTANCE FROM PROPOSED* 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED LIGITATUS REUM FROM PROPERTY LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1645' 2477.56 319 18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2550 7440 Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 6638' GL As soon as permitted 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 12-1/4" 8-5/8" 24# 300' 300 sx 7-7/8* 4-1/2** 10.5# 7440 1851 ex The above well is being drilled to further develop the Basin Dakota Field. The well will be drilled with a low solids non-dispersed mud system. Completion design will be based on open hole logs. Copy of all logs will be filed upon completion. The gas from this well is dedicated to Northwest Pipeline. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached. This application to drill an Infill Basin Dakota well is pursuant to Order No approved by the NMOCC on May 22, 1979. This well will qualify under Section the Hatural Gas Policy Act under Order No. R-1670-V. Attached is a copy order and the U. S. Department of the Interior letter of February 22, 1979

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed per zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and recovered and proposed per $\overline{24}$.

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SIGNED 3 5. Fachul	TITLE	District	Engineer	_ DATE .	May 31, 1979
(This space for Federal or State office use)					
PERMIT NO.		APPROVAL DATE _			
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE			_ DATE _	
oh 5ruh				JUN 4	1979

*See Instructions On Reverse Side

U. S. GEOLDGICAL SURVEY DERMIGO, COLE.

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions. Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone. Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

OIL CONSERVATION DIVISION P. O. BOX 2088 ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 (1977) Revised 10-1-78

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SUPPLEMENTAL INFORMATION TO FORM 9-331C REQUIRED BY NTL-6 JICARILLA CONTRACT 155 NO. 22E 1670' FSL & 1645' FWL, SECTION 31, T26N, R5W RIO ARRIBA COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary San Jose.

The estimated tops of important geological formations bearing hydrocarbons are:

FORMATION	DEPTH	ELEVATION
Pictured Cliffs Mesaverde	2900 ' 5120 '	+3738' +1518'
Dakota	7000	- 362'
TD	7440¹	- 802 [†]

Estimated KB Elevation: 6651'.

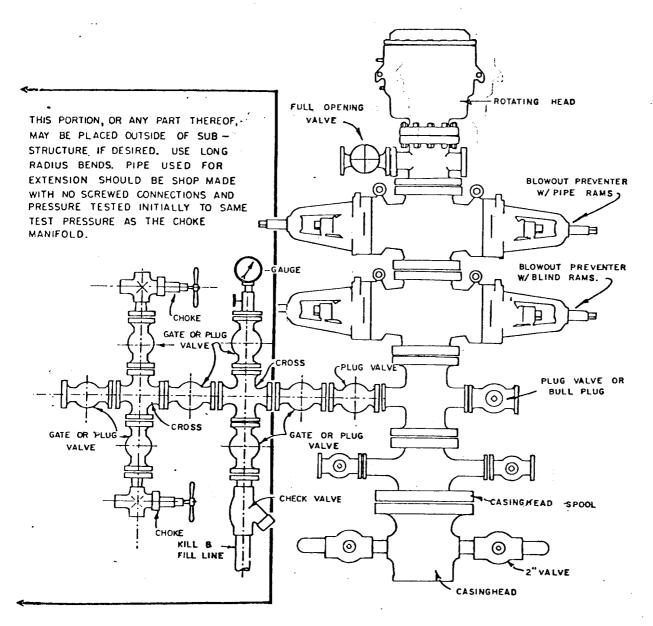
Est. Depth	Csg. Size	Weight	Hole Size	Sacks Cement - Type
300 ' 7440'	8-5/8" 4-1/2*	24# 10.5#	12-1/4" 7-7/8"	300 sx - Class "B" Neat 1651 sx - Class "B" 50:50 Poz 200 sx - Class "B" Neat

Amoco's standard blowout prevention will be employed; see attached drawing of our blowout preventer design.

Drilling fluid to TD will be a low solids non-dispersed mud system.

Amoco plans to run the following logs: Induction-Electric and Density-Gamma Ray from TD to 300'; Induction and Density from TD to 300'. No cores or drill stem tests will be taken.

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.



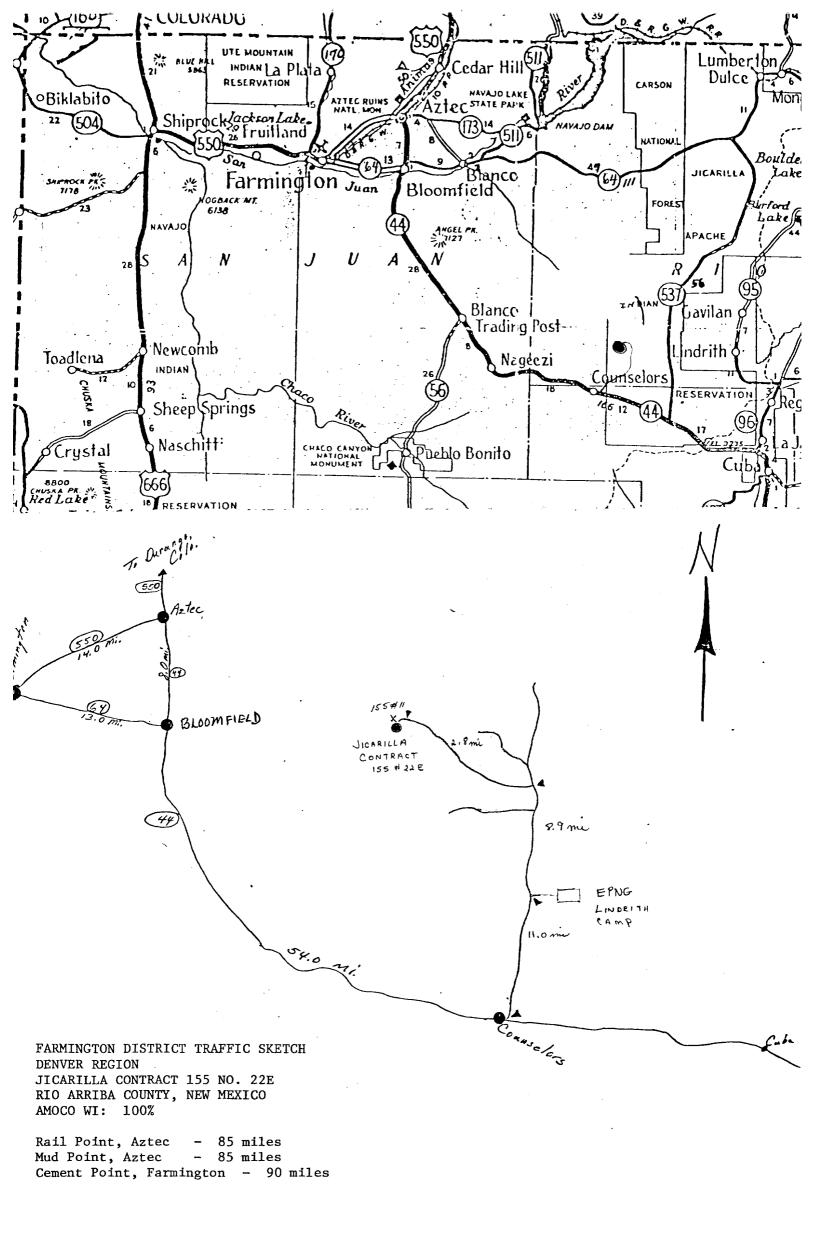
BLOWOUT PREVENTER HOOKUP

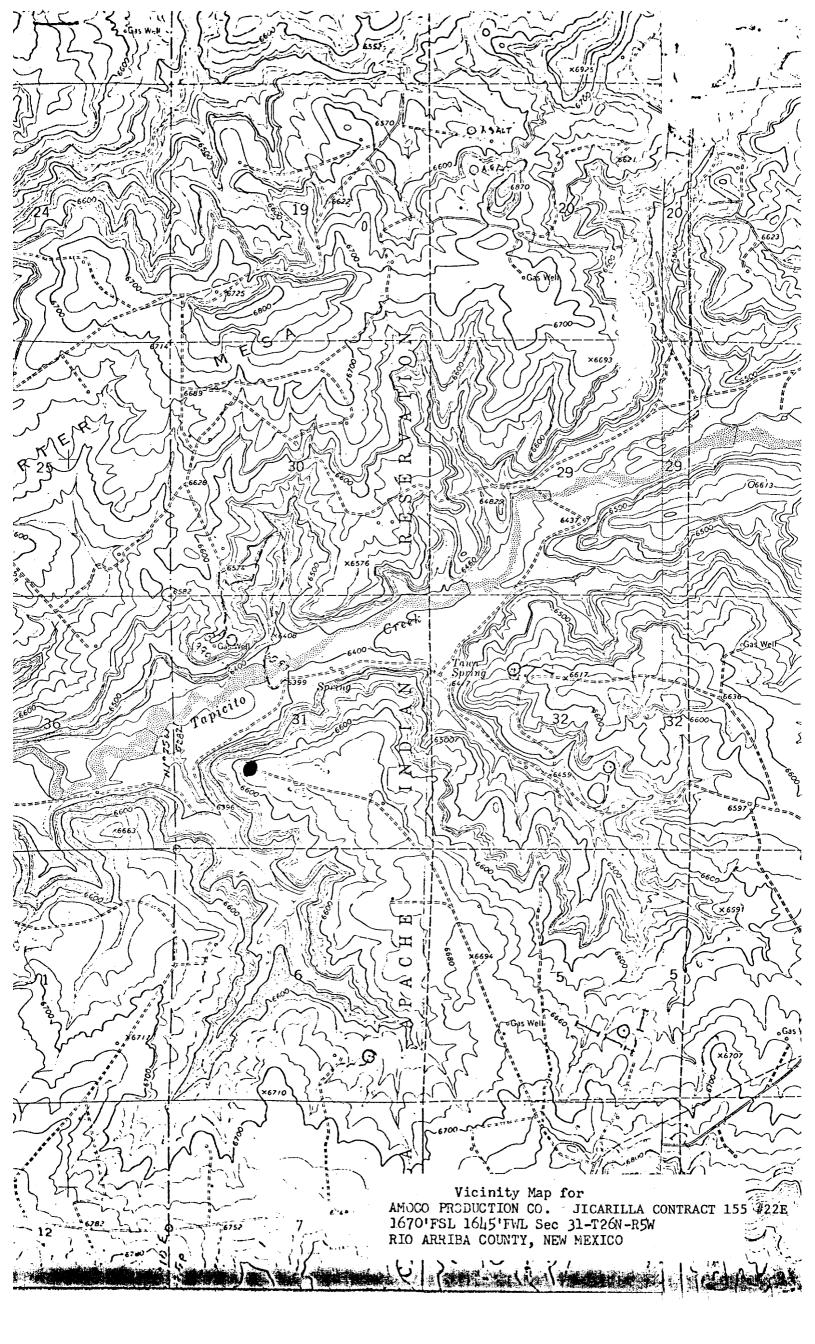
EXHIBIT D-4
OCTOBER 16,1969

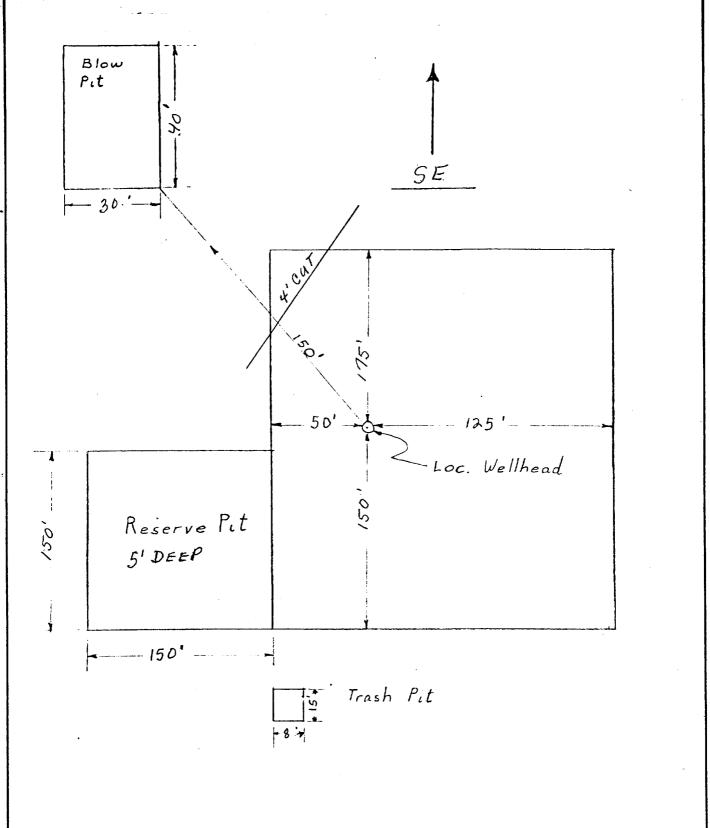
MULTI-POINT SURFACE USE PLAN

JICARILLA CONTRACT 155 NO. 22E 1670' FSL & 1645' FWL, SECTION 31, T26N, R5W RIO ARRIBA COUNTY, NEW MEXICO

- 1. The attached road map and sketch show the proposed route to the location and distances from towns.
- 2. No new access road will be required as existing roads will be used.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- 4. There is a 380-barrel tank nearby and the location is 200 feet east of the pipeline.
- 5. Water will be hauled by truck from Tapacito Wash.
- 6. No construction materials will be hauled in for this location.
- 7. A 150' x 150' pit will be built on location to hold all drilling waste. Upon completion of the well, all waste and liquid will be pumped out and fluids will be bladed into roads.
- 8. There are neither airstrips nor camps in the vicinity.
- 9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 4-foot cut will be made on the east side of the well site.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as detailed in the attached seeding plan.
- 11. The general topography is a rolling mesa of sandy, clay-type loam soil with native vegetation of sagebrush, rabbitbrush, snakeweed, Indian ricegrass and pinon and juniper trees.
 - Representatives of the U. S. Geological Survey's Durango Office (Don Englishman) and the Jicarilla Tribe's Dulce Office (Gary Vicenti) inspected the site with Amoco personnel. Cultural resources inspection was conducted by Terry Knight, Archaeologist from San Juan College.
- 12. A Certification Statement by Amoco's representative is included.







__APPROXIMATELY 1.2 Acres

Amoco Production Company	SCALE: NONE
DRILLING LOCATION SPECS JICARILLA CONTRACT 155 NO. 22E	DRG. NO.

17 41 112

SEEDING PLAN

1. TIME:

All seeding will take place between July 1 and September 15.

2. EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted not less than one-half inch deep or more than one inch deep. The seeder will be followed with a drag, packer, or roller to insure uniform coverage of the seed, and adequate compaction. Drilling will be done on the contour where possible, not up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered to the depth described above by whatever means is practical.

3. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

CRESTED WHEATGRASS	0.7 lbs.
RUSSIAN WILD RYE	0.86 lbs.
ORCHARD GRASS	0.298 lbs.
PERENNIAL RYE GRASS	0.57 lbs.
WESTERN WHEAT GRASS	1.43 lbs.
SMOOTH BROME	1.14 lbs.
INTERMEDIATE WHEAT	0.91 lbs.
PUBESCENT WHEAT GRASS	1.09 lbs.

JICARILLA CONTRACT 155 NO. 22E 1670' FSL & 1645' FWL, SECTION 31, T26N, R5W RIO ARRIBA COUNTY, NEW MEXICO

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 be best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION

COMPANY and its contractors and sub-contractors in con-

COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

May 31, 1979

Date

Gold District Supt.

Name and Title

Amoco Production Company's Representative:

R. W. Schroeder

Phone: Office: 505-325-8841; Home: 505-325-6164

Address: 501 Airport Drive

Farmington, NM 87401