SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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5.	LEASE	DESIGNATION	AND SKI	RIAL NO.	

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR FLUG BACK 1	GEOLOGICAL SURVEY	Jicarilla Contract 146
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(This space for Federal or State office use) PERMIT NO. APPROVAL DATE APPROVED BY TITLE SEP 2 BAT 970	zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface location preventer program, if any. 24. District Engin	as and measured and true vertical depths. Give blowout
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APPROVED BY SEP 2 BAT 1979	PERMIT NO APPROVAL DATE	
	APPROVED BY TITLE	SED 9 PAT 1070

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U. S. GEOLOGICAL SURVEY DURANGO, COLO.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
VERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

All distances must be from the cuter boundaries of the Section.

Well No. Operator AMOCO PRODUCTION COMPANY JICARILLA CONTRACT 116 10F Township Section Range Unit Letter 25N 5W Rio Arriba Ε Actual Footage Location of Well: North West feet from the feet from the line line and Ground Level Elev. Producing Formation Dedicated Acreage: 6765 Basin Dakota Dakota Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation __ ☐ No T Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. **CERTIFICATION** I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. B. E. Fackrell 10301 Position District Engineer Company AMOCO PRODUCTION CO. August 27, 1979 Sec. 9 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. 0 Register Fred B. Certificate No. 3950 2310

SUPPLEMENTAL INFORMATION TO FORM 9-33IC JICARILLA CONTRACT 146 NO. 10E 1520' FNL & 1030' FWL, SECTION 9, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

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

Estimated tops of important potential hydrocarbon bearing formations:

FORMATION	<u>DEPTH</u>	ELEVATION
Dakota	7282'	- 504 '
Gallup	6607 '	+ 1711
Mesaverde	4807	+ 1971'
Chacra	4032 '	+ 2746'
Pictured Cliffs	3152'	+ 3626'
TD	7475 '	- 697 '

Estimated KB elevation: 6778'.

Drilling fluid to TD will be a low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing:

Induction Electric - SP

Compensated Density Ø - Gamma Ray

Compensated Neutron Ø - Gamma Ray

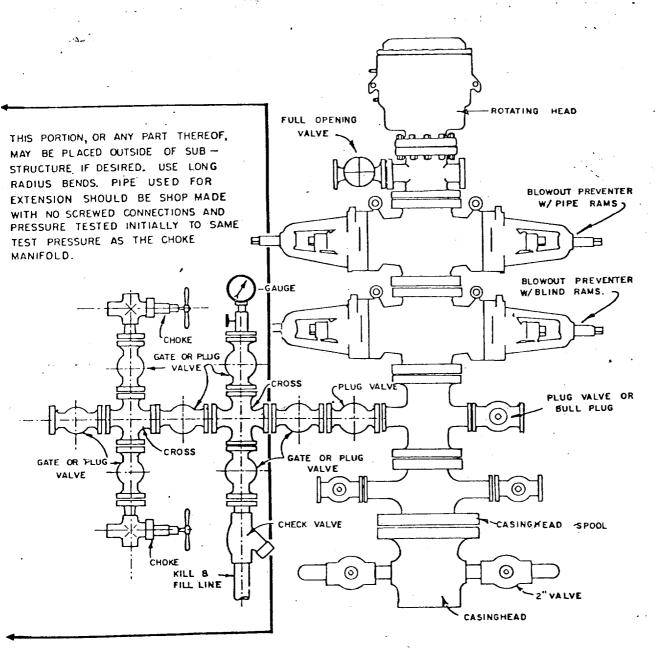
Gamma Ray (Separate Log) 5" Scale

2000' - Surface

Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately three weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).



BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969

MULTI-POINT SURFACE USE PLAN

JICARILLA CONTRACT 146 NO. 10E 1520' FNL & 1030' FWL, SECTION 9, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will be necessary to build approximately 450 feet of new road 20 feet wide.
- 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 and facilities located at well indicated on the topo map.
- 5. Water will be hauled from Tapacito water hole a distance of 3-4 miles.
- 6. No construction materials will be hauled in for this location.
- 7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled.
- 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 5-foot cut will be made on south side.
- 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 instructed by the Bureau of Indian Affairs.
- II. The general topography is a Sandy clay-type soil with vegetation of sage and native grasses.

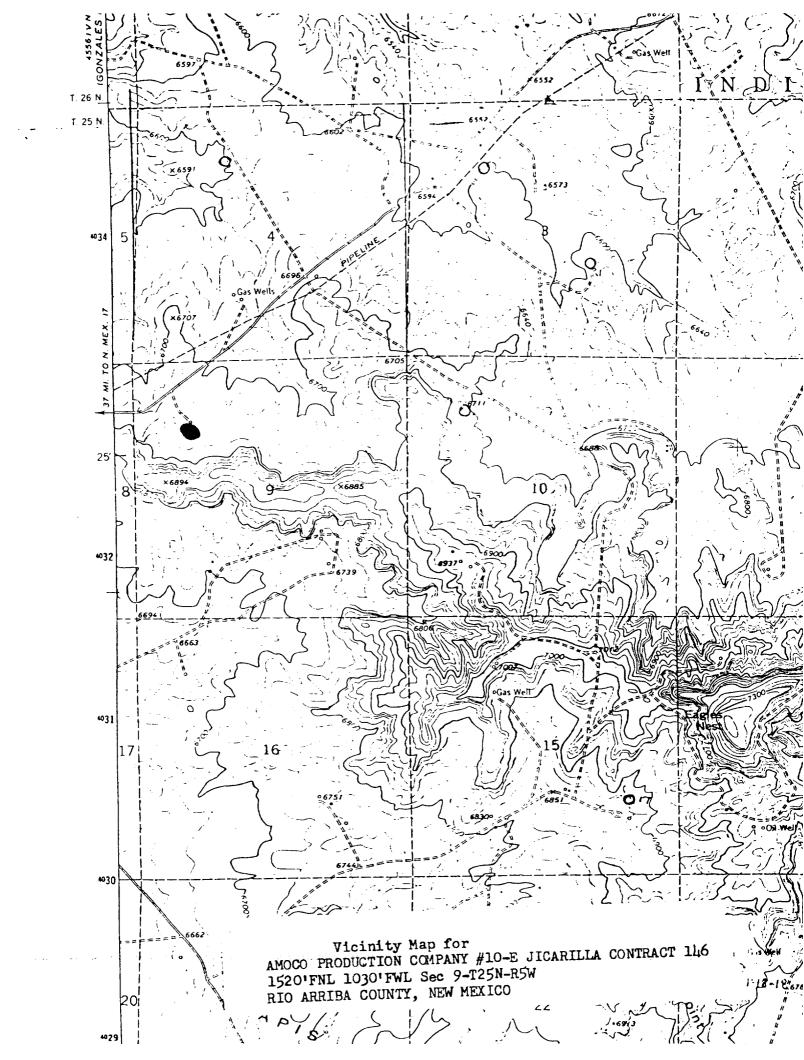
Representatives of the U. S. Geological Survey's Durango Office and the Jicarilla Tribe's Dulce Office will inspect the site with Amoco personnel. Cultural resources inspection will be conducted by an archaeologist from San Juan College.

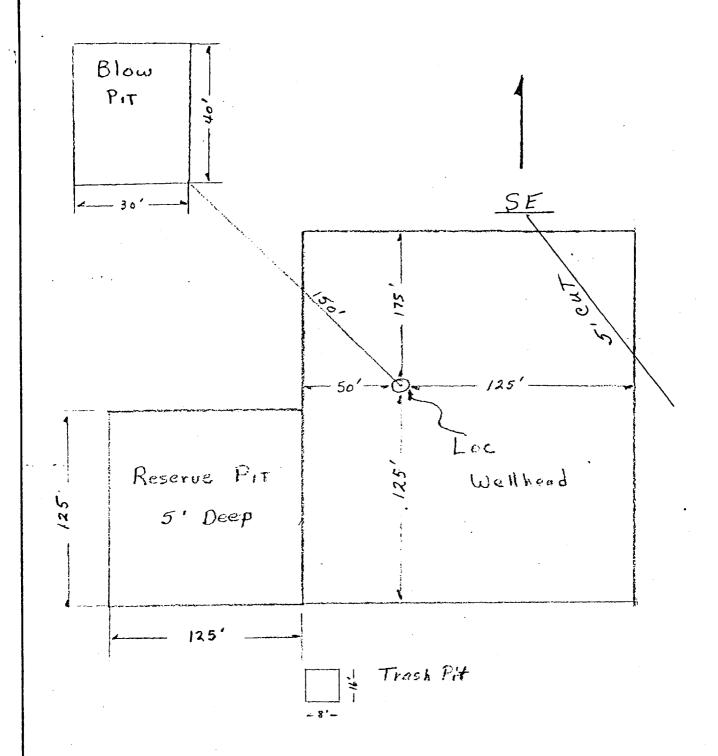
12. Operator's Representative: R. W. Schroeder

Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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

Date	September 17, 1979	R.W. Schroedings
		R. W. Schroeder, District Superintendent





Approximately 1.2 Acres

Amoco Production Company	SCALE: NONE
Drilling LOCATION Specs. JICARILLA CONTRACT 146 NO. 10E	DRG. NO.

FARM 422 2 71