SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

30-039-21676

5. LEASE DESIGNATION AND SERIAL NO.

GEOLOGICAL SURVEY					Jicarilla Apa		_1	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTE		
		DEEPEN	1 🗆	PLUG BA	ACK 🗌	7. UNIT AGREEMENT		-
b. TYPE OF WELL OIL WELL OTHER SINGLE MULTIPLE ZONE ZONE						8. FARM OR LEASE NA	MB	-
NAME OF OPERATOR	Jicarilla Apa	che Tribal	1					
AMOCO PRODUCT	LON COMPANY					9. WELL NO.		_
ADDRESS OF OPERATOR						6		_
SOL AIRPORT DE	RIVE, FARMINGTO deport location clearly an	M NN 874	With any 5	itate requirements *)		10. FIELD AND POOL,	OR WILDCAT	
At surface	PML x 1060' FE					Basin Dakota 11. sec., T., R., M., OB	BLK.	-
At proposed prod. zor		L, Section	1 7, 1-	-20-A, A-3-4		AND SURVEY OR A	REA	
Same						1-26-8, 1-5-W		
. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR P	POST OFFICE	C*		12. COUNTY OR PARISE	13. STATE	_
	est of Counsel	ors, New ?				Rio Arriba	566	_
DISTANCE FROM PROP- LOCATION TO NEARES PROPERTY OR LEASE 1 (Also to nearest dr)	T Line, ft.	1060*	1	559.16		OF ACRES ASSIGNED THIS WELL 320		
B. DISTANCE FROM PROI TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING, COMPLETED,	37001		OPOSED DEPTH	20. кот	ROTARY OR CABLE TOOLS ROTARY		
•	ether DF, RT, GR, etc.)					22. APPROX. DATE W	ORK WILL START*	-
7217' GL	<u>.</u>					As soen as p	endited	_
		PROPOSED CA	SING ANI	CEMENTING PROG	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PE	R FOOT	SETTING DEPTH		QUANTITY OF CEME	NT	_
13-3/4	9-5/8	32.3	į	3001		350 ex		_
8-3/4"	7"	23#		4130'		916 ax		_
6-1/4"	4-1/2	10.5	Ê	8 29 0"		490 sx	:	
be based on New Mexico.	open hole legs	. The gas	requi	this well is red by NTL-6 tached.	dedicat	A 19	Fill VEMI 178	
	drill or deepen direction	nally, give pertin	ent data o		and measur	ductive sone and proposed and true vertical dept		
	eral or State office use)							:
PERMIT NO.				APPROVAL DATE		 		
								-

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.

U.S. GOVERNMENT PRINTING OFFICE: 1963---O-711-396

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-1-65 All distances must be from the outer boundaries of the Section. Operator 6 Jicarilla Apache Tribal Amoco Production Company Township Section Unit Letter Rio Arriba 26N Actual Footage Location of Well: 1060 feet from the East line North 1190 feet from the Dedicated Acreace: Producing Formation Ground Level Elev. 320 Basin Dakota 7217 Acres Dakota 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 ___ 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 Commis-**CERTIFICATION** I hereby certify that the information con-190 tained herein is true and complete to the of my knowledge and belief. י060י Name J.∕L. KRUPKA Position AREA ENGINEER Company AMOCO PRODUCTION COMPANY **FEBRUARY 6, 1978** OIL CON. COM. I hereby certify that the well location DIST. 3 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. Arry | 4 1978 Date Surveyed Fe bruary 2. 1978 Registered Professional Engineer S. GEOLOGICAL SURVEY

1000

2000

1320 1650

1980 2310

2640

1500

rred B.
Certificate No.

SUPPLEMENTAL INFORMATION TO FORM 9-331C REQUIRED BY NTL-6 JICARILLA APACHE TRIBAL 151 NO. 6 1190' FNL X 1060' FEL, SECTION 9, T-26-N, R-5-W 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	<u>DEPTH</u>	ELEVATION
Pictured Cliffs Mesaverde Main Dakota Total Depth	3829' 5498' 8040' 8290'	+3401' +1732' - 810'
Estimated KB Elevation:	7230'	

EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300 ' 4130 '	9-5/8" 7"	32.3# 23#	13-3/4" 8-3/4"	350 sx - Class "B" , 2% CaCl ₂ . 910 sx - Class "B", 6% Gel, and 2# Med Tuf Plug/sx.
8290'	4-1/2"	10.5#	6-1/4"	290 sx - Class "B", 6% Gel, and 2# Med Tuf Plug/sx. 200 sx - Class "B" Neat.

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

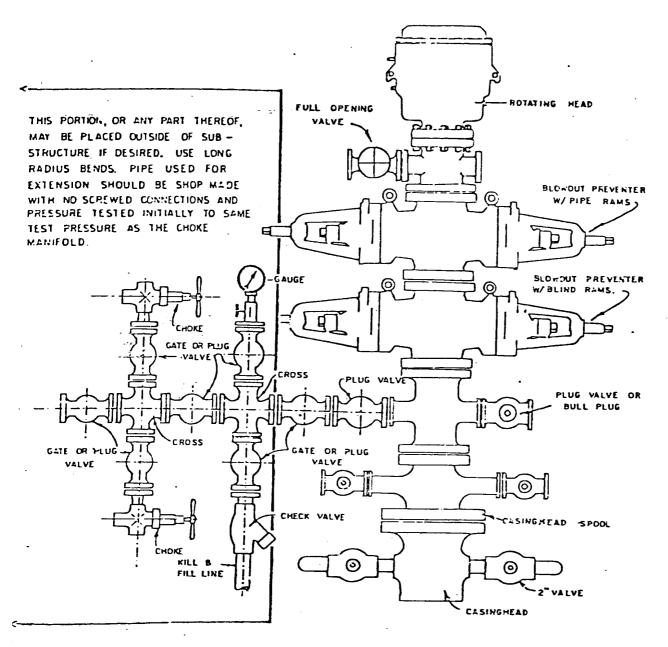
Drilling fluid to TD will be a low solids non-dispersed mud system.

Amoco plans to run the following logs: Induction-Electric and Density-Gamma Ray from 4130' to 2500'; Induction and Density from TD to 4130'. 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.

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S. GEOLOGICAL SURVEY



BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969

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S. GEOLOGICAL SURVEY

MULTI-POINT SURFACE USE PLAN

JICARILLA APACHE TRIBAL 151 NO. 6 1190' FNL & 1060' FEL, SECTION 9, T26N, R5W RIO ARRIBA COUNTY, NEW MEXICO

- The attached road map and sketch show the proposed route to the location and distances from towns.
- No new access road will be built. Location is 250' southwest of Continental Oil Company's AXI Apache "K" Well No. 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 storage tank located at each facility on Jicarilla Apache Tribal 151 No. 2 and No. 5.
- 5. Water will be hauled from Candelaria water hole on Cereza Wash a distance of approximately 15 miles.
- 6. No construction material will be hauled in for this location.
- 7. A 75' X 75' pit will be built on location to hold all drilling waste.
 Upon completion of well, all waste and liquid will be hauled by truck
 and bladed into existing roads. All other waste will be covered in pit.
- 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 on north side.
- 10. Restoration of the surface will be accomplished by cleaning up and levelling upon completion of the well. Drainage ditches will be constructed on upper sides. Reseeding of the site will be carried out as detailed in the attached seeding plan.
- 11. The general topography is a sandy soil with well on top and at west end of Honolulu Mesa. The location's vegetation consists of pinon and cedar trees, with sagebrush and native grasses.

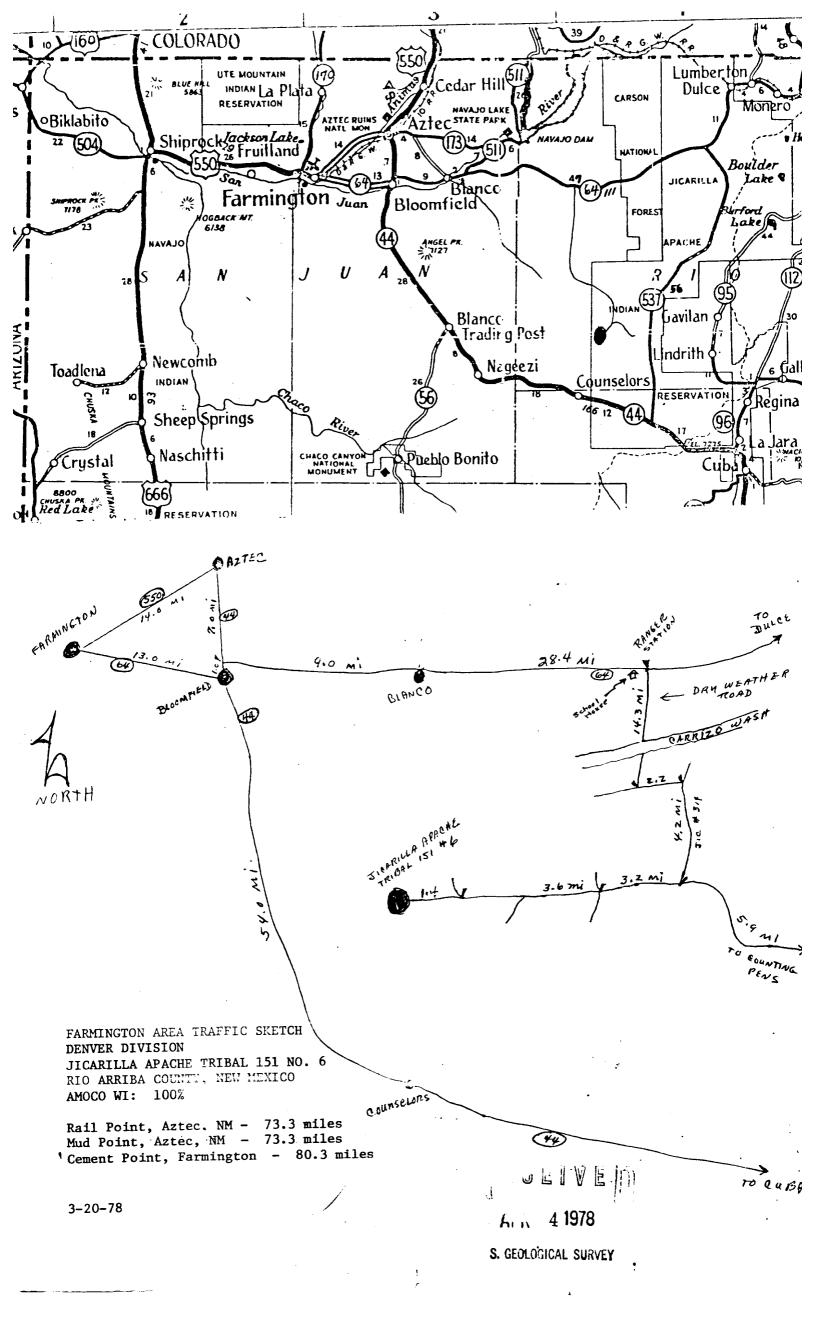
Representatives of the U. S. Geological Survey's Durango Office and Jicarilla Tribe's Dulce Office have inspected the site and found it suitable for drilling. Cultural resources inspection will be conducted by an Archaeologist from San Juan College or Sammons Ruins.

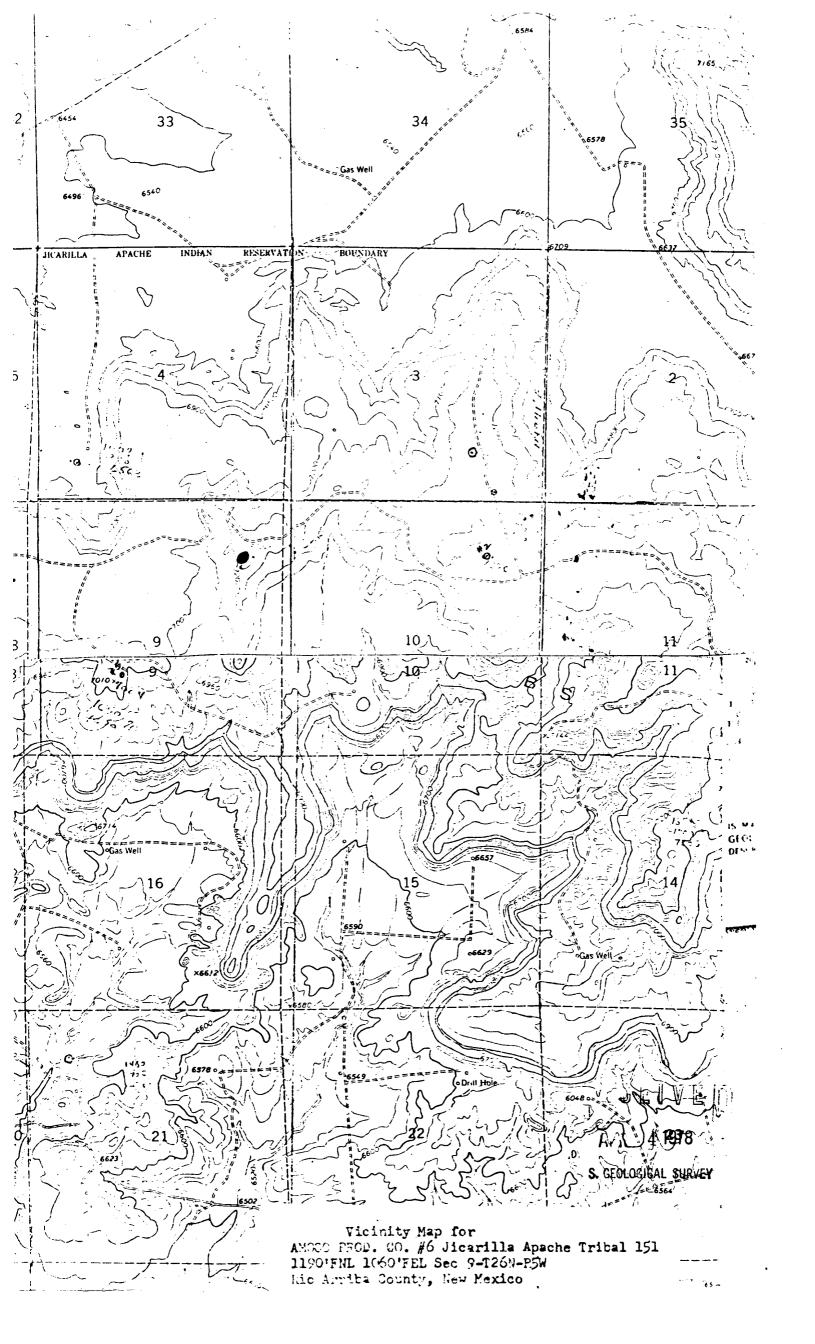
12. A Certification Statement by Amoco's representative is included.

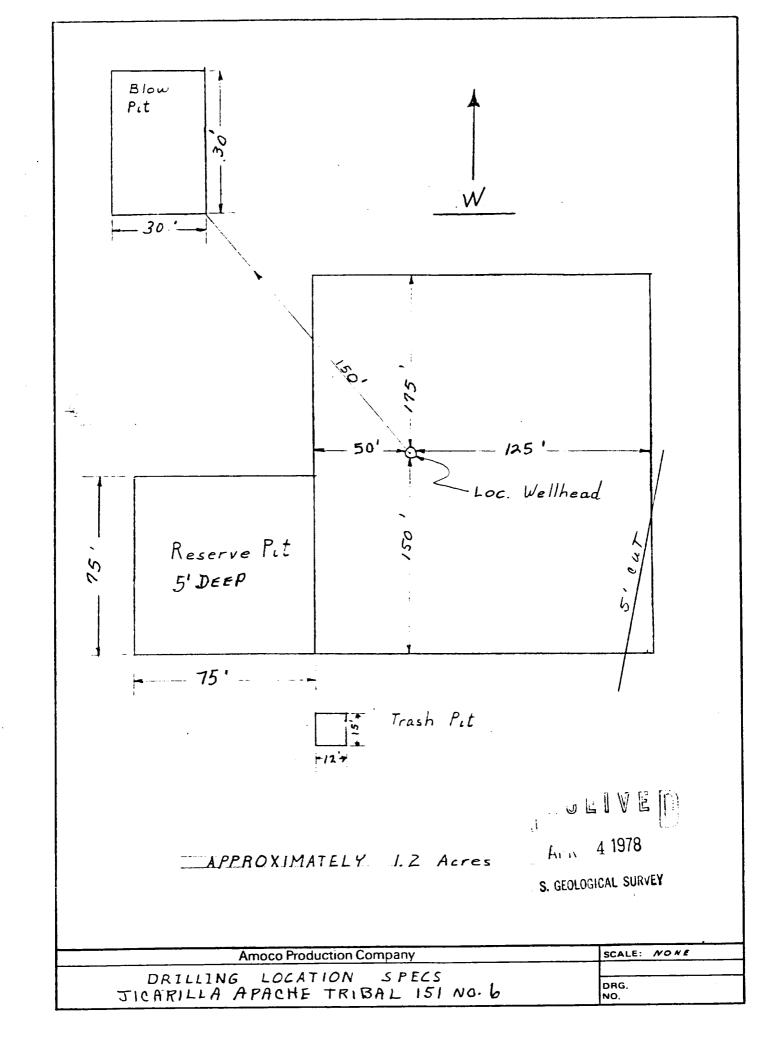
JOHNE

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S. GEOLOGICAL SURVEY







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	0.71 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.

Fig. 4 1978

JICARILLA APACHE TRIBAL 151 NO. 6 1190' FNL X 1060' FEL, SECTION 9, T-26-N, R-5-W 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-

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

APRIL 3, 1978

- - -

Date

Area Supt.

Nove and Title

Amoco Production Company's Representative:

L. O. Speer, Jr.

Phone: Office: 505-325-8841; Home: 505-325-3247

Address: 501 Airport Drive

Farmington, NM 87401

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