### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

 $\frac{30-039-2/3/9}{5. \text{ LEASE DESIGNATION AND SERIAL NO.}}$ 

	GEOLO	GICAL SURVE	ΕΥ		Jicarilla /	
APPLICATION	Y FOR PERMIT	ro drill, d	DEEPEN, OR PLU	JG BACK	6. IF INDIAN, ALLOTT	
	LL 🖫	DEEPEN [	PLUG	BACK 🗌	7. UNIT AGREEMENT	
	AS ELL OTHER			MULTIPLE ZONE	8. FARM OR LEASE N	AME
WELL W 2. NAME OF OPERATOR	ELL CHEK		ZONE CE	ZUNE	Jicarilla /	pache 102
	RODUCTION COMPA	MY			9. WELL NO.	- <del></del>
3. ADDRESS OF OPERATOR				•	24	
	port Drive, Far eport location clearly and				10. FIELD AND POOL,	_
At surface	FSL 4 970' FEL,			• ,	11. SEC., T., R., M., O	etured Cliff
At proposed prod. zon		saction 3,	, A-AU-R, R-4-R		AND SURVEY OR SE/4 SE/4 Sec	tion 3,
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	T OFFICE*		T-26-N, R-4- 12. COUNTY OR PARIS	H 13. STATE
20 miles SSE	of Gobernador				Rio Arriba	New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST	OSED*		16. No. of acres in Le.		O. OF ACRES ASSIGNED THIS WELL	HEN MEXICO
PROPERTY OR LEASE I	INE, FT.	970'	2567.94	10	16	10
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	POSED LOCATION* PRILLING, COMPLETED,	2556'	19. PROPOSED DEPTH	20. RO	DTARY OR CABLE TOOLS	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					VORK WILL START*
6895' GL est	•				Harch 1.	1977
23.	]	PROPOSED CASIN	NG AND CEMENTING P	ROGRAM		
			id hill Childring I			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO		гн	QUANTITY OF CEM	ENT
			OOT SETTING DEPT			
12-1/4" 6-1/4" The above refe	8-5/8" 4-1/2"	24# 9.5# being dril	250 250 3810	develop 1	175 as 475 as the Tapacito Pi	ctured
12-1/4" 6-1/4"  The above refectiffs Field. Completion des	8-5/8" 4-1/2"  arenced well is The well will sign will be be f Hew Nexico.	24# 9.5# being dril be drilled sed on open Attached is	led to further with a low solubole logs. The Development	develop dide non- lide non	the Tapacito Pi inpersed and a is dedicated sired by HTL-6.	ctured ysten. to the
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\*See Instructions On Reverse Side

# 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, of 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: 1974-781-025/VIII-239

All distances must be from the outer boundaries of the Section Well No. Lease Operator Amoco Production Company Jicarilla Apache 102 2hTownship Unit Letter Section Rio Arriba 26N ЬW Actual Footage Location of Well: 970: feet from the East line feet from the line and 880 South Dedicated Acreage: Ground Level Elev. Producing Formation Tapacito Pictured Cliffs 160 Pictured Cliffs 689**5** est 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 \_\_\_\_ 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name D. Montgomery Position Area Engineer AMOCO PRODUCTION COMPANY January 14, 1977 Sec. ١3 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: 9701 Date Surveyed December 30. 1976 Registered Professional Engineer and/or Land Surveyor 8 Fred B. Certificate No. 3950 2000 500

660

330

## JICARILLA APACHE 102 NO. 24 880' FSL & 970' FEL, SECTION 3, T-26N, R-4W 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 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

January 14, 1977

Date

Area Supt.

Name and Title

### DEVELOPMENT PLAN JICARILLA APCHE 102 NO. 24 880' FSL & 970' FEL, SECTION 3, T-26N, R-4W RIO ARRIBA COUNTY, NEW MEXICO

The proposed location has sagebrush, Russian thistle and various grasses. The geological name of the surface formation is the Paleozoic San Jose. No new road will be required. No construction materials will be used for building the location; dirt will be leveled at the well site. Verbal approval of the drill site has been obtained from Mr. Harold Tecube, BIA; Mr. John Keller, USGS; and Mrs. Nancy S. Hewett, Archæologist.

Arrangements are being made to haul water from Tapacito Water Hole on existing roads approximately five miles. Drilling fluid to TD will be a low solids non-dispersed mud system. Upon completion the location will be cleaned up and leveled. Drilling mud and water will be hauled away and the reserve pit backfilled. Attached is the seeding plan to be followed for this well.

There are neither airstrips nor camps in the vicinity.

The estimated tops of important geological formations bearing hydrocarbons are:

Formation	<u>Depth</u>	Elevation
Fruitland	3107'	+3800'
Pictured Cliffs	3617 <b>'</b>	+3290'

Estimated KB elevation: 6907'

Est. Depth	Csg. Size	Weight	Hole Size	Sacks Cement - Type
250' 3810'	8-5/8" 4-1/2"	24# 9.5#		175 - Class "B", 2% CaCl2. 425 - Class "B", 6% Gel, 2# Medium Tuf Plug per sx. 50 - Class "B" Neat.

Amoco standard blowout prevention will be employed, see attached drawing for blowout preventer design.

Amoco plans to run the following logs from TD to 250': Induction-Electric, Density-Gamma Ray. No cores or Drill Stem Tests will be taken.

In the past, drilling in this area has shown that no abnormal pressure, temperatures or hydrocarbon gas will be encountered.

Our proposed starting date is March 1, 1977, and a two-week operation is anticipated.

### SEEDING PLAN

### 1. TIME:

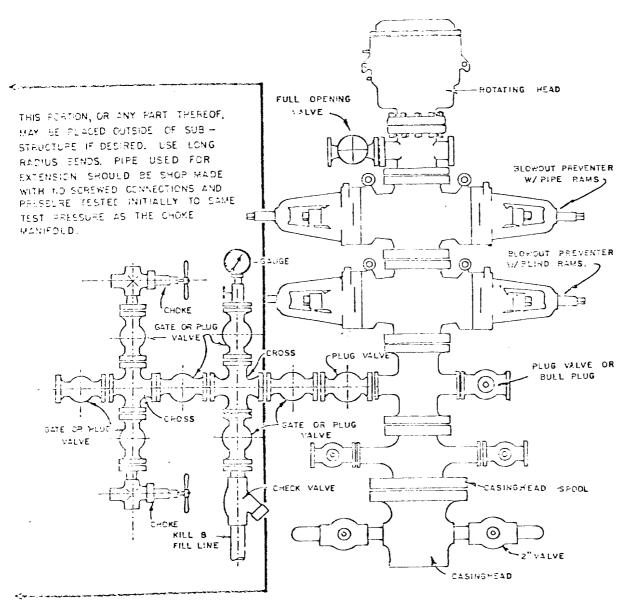
All seeding will take place between July 1 and September 15.

### 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.

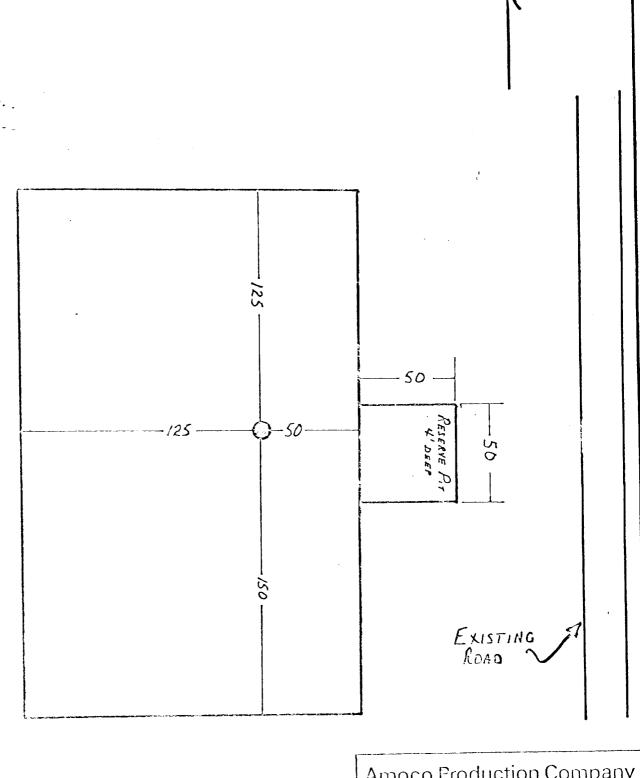
### 3. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

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.



BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4 OCTOBER 16,1989



Amo	ocol	Produ	uction	Cor	npany
JIC	ARILL ACITO	A AI	TURED	CL	1.0.24 1.5.5 3,26-4
DR.	CK.	AP.	AP.	NO.	
SCALE	المرابطة إحمد وسود		DATE		

