#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

	approved		
Budget	Bureau	No.	42-R1425

UNITED	STATE	ES
DEPARTMENT O	F THE	INTERIOR

(1112) 1000)	UNI	TED STATE	S	reverse	side)	30-039	-2/32/
	DEPARTMEN			τ.		5. LEASE DESIGNATION	AND SERIAL NO.
		GICAL SURV		00 01110	D 4 614	Jicarilla A	E OR TRIBE NAME
APPLICATION	FOR PERMIT	TO DRILL,	DEEPEN,	OR PLUG	BACK	Jicarilla A	
a. TYPE OF WORK	L 🖺	DEEPEN		PLUG BA	ck 🗆	7. UNIT AGREEMENT P	
h. TYPE OF WELL		DELI LIN					
OIL GAS WELL WE	S OTHER		SINGLE ZONE	MULTI ZONE	IPLE	8. FARM OR LEASE NA	
NAME OF OPERATOR						Jicarilla A	pache 102
	DUCTION COMPAN	IX				9. WELL NO.	
ADDRESS OF OPERATOR	rt Drive, Fam	dantan Ye	. Mardaa	97471		10. FIELD AND POOL,	OR WILDCAT
. LOCATION OF WELL (Re	port location clearly an	d in accordance w	ith any State	requirements.*)		Tapacito Pi	ctured Clif
A 4 f o.o.	SL & 940' PEL,					11. SEC., T., R., M., OR AND SURVEY OR A	BLK. REA
At proposed prod. zone	•		•	•		SE/4 SE/4 Sec	
Same						12. COUNTY OR PARISE	H   13. STATE
4. DISTANCE IN MILES A			ST OFFICE*				
	SSE of Goberna	MOT	1 16 NO OF	ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED	New Mexico
5. DISTANCE FROM PROPO- LOCATION TO NEAREST PROPERTY OR LEASE LI		4340'		567.94		THIS WELL	
(Also to nearest drlg 8. DISTANCE FROM PROPO	. unit line, if any)	4340	19. PROPOS			ARY OR CABLE TOOLS	
TO NEAREST WELL, DE OR APPLIED FOR, ON THI	RILLING, COMPLETED,	2570'	3	390 '		Rotary	
1. ELEVATIONS (Show whe						22. APPROX. DATE W	ORK WILL START*
6964 ' GL	est.					March 14,	1977
3.		PROPOSED CAS	ING AND CE	MENTING PROG	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	FOOT	SETTING DEPTH		QUANTITY OF CEMI	ENT
12-1/4"	8-5/8"	24#		250'		175 ax	
6-1/4"	4=1/2"	9.5	g	3890'		470 ax	
es Company of	Hew Hexico. I	Atached is	a Develo	opment Plan	Jane Jane Jane Jane Jane		
signed	drill or deepen direction	mally, give perting	TITLE	back, give data or thsurface locations	s and measu	oductive zone and propored and true vertical dep	vas. Gife blowdu
conditions of appro	val, if any:		W				

# 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 an 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.

Consult local Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. 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: 1974-781-025/VIII-239

All distances must be from the outer boundaries of the Section

Operctor		All distances inus		le outer boundaries	of the Section	n.	
Amoco Production Company			i i	Jicarilla Apache 102			Well No.
Unit Letter	r Section Township Range Cour		County				
P	14	26N		ŢМ	1 -	o Arriba	
Actual Footage Loc		1 1-7-			<del></del>		
Ground Level Elev.	root mon the	South line	4,74		feet from the	East	line
6964 est	Pröducing For Pictured		Pool	i i	1 (111		Dedicated Acreage:
				pacito Picto			160 Acres
1. Outline th	e acreage dedica	ted to the subjec	t well by	v colored penci	l or hachur	e marks on th	e plat below.
2. If more th interest ar	nan one lease is nd royalty).	dedicated to the	well, out	lline each and i	dentify the	ownership th	nereof (both as to working
3. If more that dated by c	an one lease of d ommunitization, u	ifferent ownership mitization, force-p	is dedic ooling. e	ated to the weltc?	l, have the	interests of	all owners been consoli-
Yes	No If an	nswer is "yes;" ty	pe of con	solidation			
If answer this form i	is "no," list the f necessary.)	owners and tract d	lescriptio	ons which have	actually be	een consolida	ated. (Use reverse side of
No allowat	ole will be assigne	ed to the well until or until a non-stan	l all intendard uni	rests have been t, eliminating s	consolida uch interes	ted (by comr ts, has been	nunitization, unitization, approved by the Commis-
	l I					1	CERTIFICATION
				1		i i	ertify that the information con- ein is true and complete to the
	1 					I	knowledge and belief.
	· — + — — —	.		· -			. Montgomery
	1						Engineer
	i					Company AMOCO	O PRODUCTION COMPANY
		Se <b>c</b>		1		1	ary 14, 1977
	!	4					
	! 			i		I hereby o	certify that the well-location
	The second second	l		İ	1	1	his plat was plotted from field
1				!		1	ctual surveys made by me or upervision, and that the same
/ 1				i	1	1	d correct to the best of my
	- At a local control	j		i	1	knowledge	
	-+			- +			
,	1	ł		Į.	1		
	1			_ 9	<b>40</b> 1	Date Surveye	
-				-		Decembe	
	i			8701	- 1	and/or Land	olessional Engineer
	I				į	Tres	3
						Fred B	Kert Jr.
0 330 660 9	0 1320 1650 1386	2310 2640 2	00c 1:	500 1000	500 0	Certificate No	
						•	A Complete C

#### JICARILLA APACHE 102 NO. 22 840' FSL & 940' FEL, SECTION 4, T-26-N, R-4-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 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

\_Area Supt

Name and Title

## DEVELOPMENT PLAN JICARILLA APACHE 102 NO. 22 840' FSL & 940' FEL, SECTION 4, T-26-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

The proposed location has big sagebrush and various grasses. The geological name of the surface formation is the Paleozoic San Jose. Four tenths of a mile of 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, Archaeologist.

Arrangements are being made to haul water from Tapacito Wash on existing roads approximately three 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	2876 <b>'</b>	+4100'
Pictured Cliffs	3696 <b>'</b>	+3280'

Estimated KB elevation: 6976'

Est. Depth	Csg. Size	Weight	Hole Size	Sacks Cement - Type
250 <b>'</b> 3890 <b>'</b>	8-5/8" 4-1/2"	24# 9.5#	12-1/4" 6-1/4"	175 sx - Class "B", 2% CaCl2. 420 sx - Class "B", 6% Gel, 2# medium Tuf Plug/sx. 50 sx - Class "B" Neat.

Amoco's 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 14, 1977, and a two-week operation is anticipated.

#### SEEDING PLAN

#### 1. TIME:

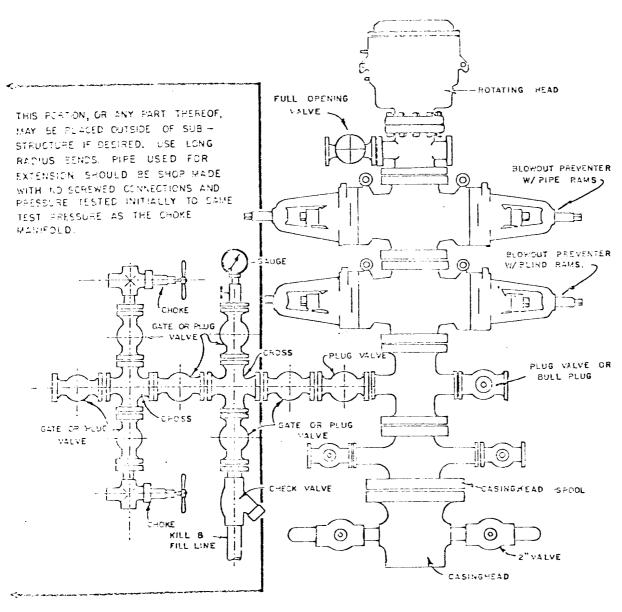
All seeding will take place between July 1 and September 15.

#### 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.

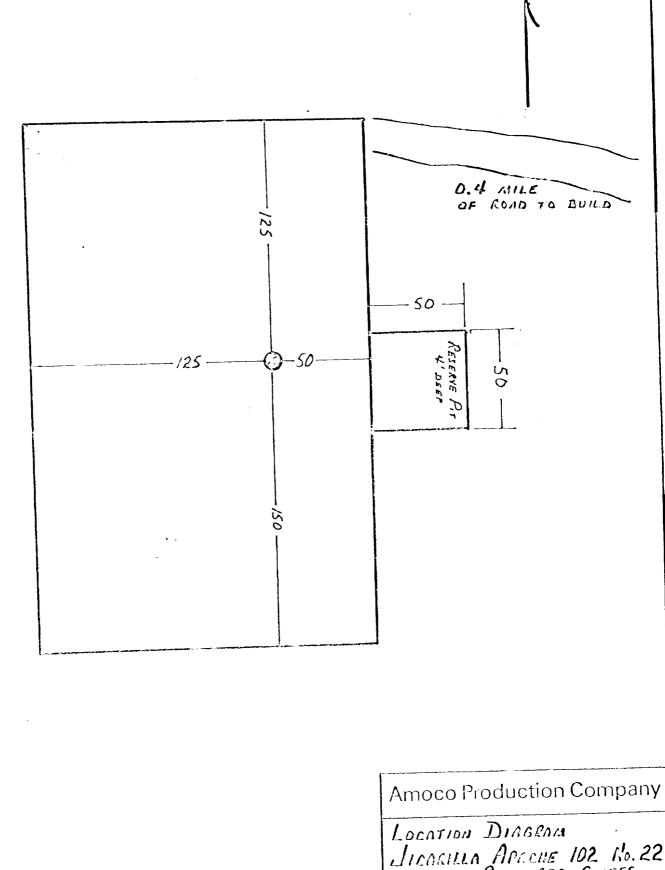
### 3. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

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 HOCKUP

EXHIBIT D-4
OCTOBER 16,1989



Amo	oco F	rodu	uction	Con	npany
111.	ARILL	A AI	AGRAM PACHE TURED PEL,	102 CLI Sec	No. 22 FFS F 26-4
DR.	CK.	AP.	AP.	NO.	
SCALE			DATE		ومعاودة والمعاودة وا

