SUBMIT IN TRIPLICATE*

Form approved.

(Other instructions on

	Budget	Bure	au No.	42-J	K1425	•
~	2 /	n =,	C;	-,	, ,	04

	DEPARTMENT	OF THE IN	TERIOR		EASE DESIGNATION AND SERIAL NO
	GEOLO(GICAL SURVE	Υ	Ji	carilla Apache 102
A DDL IC A TION	LEOR PERMIT T	O DRILL D	EEPEN, OR PLUG B		F INDIAN, ALLOTTEE OR TRIBE NAM
TYPE OF WORK	T TOR TERMINI	O DINIEL, D			carilla Apache
DRI	LL 🗱	DEEPEN [PLUG BAG		NIT AGREEMENT NAME
TYPE OF WELL	. =		SINGLE [MULTIP	LE S	ARM OR LEASE NAME
11 BBB	ELL CTHER		ZONE ZONE		
NAME OF OPERATOR				9. 1	carilla Apache 102
AMOCO PRODUCT	TION COMPANY				29
	nntio plantig	MN NGO MEA	TCO 87401	10.	FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Re	eport location clearly and	in accordance with	any State requirements.*)	Bi	anco Mesaverde
At surface	1790' FEL, Sect				SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone			•	S	1/4 NE/4 Section 9,
C eme					-26-M. R-4-W
DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE*		COUNTY OR PARISH 13. STATE
21 miles SSE	of Gobernador		16. NO. OF ACRES IN LEASE	17. No. OF AC	io Arriba New Mexi
LOCATION TO NEAREST	c .		10. NO. OF ACEDS IN DEASE	TO THIS V	ELL .
PROPERTY OR LEASE L (Also to nearest drig	g. unit line, if any)	15601	2567.94 19. PROPOSED DEPTH	20. ROTARY OF	CABLE TOOLS
DISTANCE FROM PROP TO NEAREST WELL, DI	RILLING, COMPLETED,				
OR APPLIED FOR, ON THI	ether DF, RT, GR, etc.)	300'	6250'	2	2. APPROX. DATE WORK WILL STAR
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			١.	
7139' GL		DODOGED GASIN	G AND CEMENTING PROGR		soon as well perm
		ROPUSED CASIN	G AND CEMENTING PROGR		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT SETTING DEPTH		QUANTITY OF CEMENT
13-3/8"	9-5/8"	36#	350'	_	300 sx
8-3/4"	7"	20#	<u>4250'</u>		940 sx
6-1/4"	4-1/2"	10.5#	6250'		220 sx
well will be will be base New Maxico.	drilled with and on open hole Additional in	a low solids	ther develop the B non-dispersed mid acreage is dedicate equired by NTL-6 for	i system. ed to the	Completion design Gas Company of
der de l'approprié			g actached.	1012	1977 100M.
ABOVE SPACE DESCRIB ne. If proposal is to eventer program, if ar 	E PROPOSED PROGRAM: If drill or deepen discriping.	proposal is to deep ally, give pertinent	oen or plug back give data on	present p-oduction and measured an	re zone and proposed new produc
ABOVE SPACE DESCRIB ne. If proposal is to eventer program, if ar	E PROPOSED PROGRAM: If drill or deepen di ccti on	proposal is to deep ally, give pertinent	oen or plug back, give data on t data on subsurface locations a	present broducti	DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

NOV 1 8 1977

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 7: 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, and ing 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

MARTIN WOMBER OF DE

All distances must be from the outer boundaries of the Section

Operator			ease	the section.	Well No.
Amoco Pr	Amoco Production Company Jicarilla Apache 1			ache 102	29
Unit Letter	Section	Township	Range	County	
G	9	26N	4W	Rio Arriba	
Actual Footage Loc				<u> </u>	
1560	reet Helli the	orth line and	1790 fee	et from the East	line
Ground Level Elev. 7139		1	ool	. /	Dedicated Arreage:
	Mesav		Blanco Mesa		320 Acres
1. Outline th	ne acreage dedicat	ed to the subject well	by colored pencil o	or hachure marks on th	e plat below.
2. If more the interest as	han one lease is nd royalty).	dedicated to the well, o	outline each and ide	entify the ownership th	nereof (both as to working
3. If more the dated by o	an one lease of di communitization, u	fferent ownership is dec nitization, force-pooling	dicated to the well, etc?	have the interests of	all owners been consoli-
Yes	☐ No If an	swer is "yes," type of o	consolidation		
If answer	is "no," list the o	wners and tract descrin	tions which have ac	ctually been consolide	ated. (Use reverse side of
this form i	f necessary.)			been consolida	
No allowai	ble will be assigne	d to the well until all in	terests have been o	consolidated (by com	munitization, unitization,
forced-poo	ling, or otherwise)	or until a non-standard u	mit, eliminating suc	h interests, has been	approved by the Commis-
sion.					
The same of the sa					CERTIFICATION
	!		1		
				I hereby c	ertify that the information con-
		_	4	tained her	ein is true and complete to the
	l l	09	1	best of my	knowledge and belief.
	i	1560			the sol
				Name	
			1790	J. L.	KRUPKA
	i	⊚		Position	
	, i		1		NGINEER
	i i		; 		PRODUCTION COMPANY
		Sec		NOVEMB.	ER 10, 1977
		9			
	i			I hereby	certify that the well-location
	1			1 1	this plat was plotted from field
	1			notes of a	ictual surveys made by me or
	 		1 i DEC	i i	supervision, and that the same
	1 -		OIL CON a	1 1	nd correct to the best of my
L	 <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u> <u>-</u>	EGELVEL	+ -0:57-3		and beli e f.
			∑ ²⁽³⁾ . 3	-	
	1 1	DEC 2 1977	#15	Date Surveye	ar The same
<u> </u>	i I		0	Novemb	er 7, 1977
	•	GEOLOGICAL SURVEY	1	and/or Land	
		on overed coro.	,	Freds	Been
			<u> </u>		. Kerr Jr.
0 330 660	90 1320 1650 1980	2310 2640 2000	1500	Certificate N	0.

		1	
Form	UNITED STATES SUBMIT IN TRIPLICATE* (Other instructions on re-	Form approved. Budget Bureau No	o. 42–R1424.
	DEPARTMENT OF THE INTERIOR (Other instructions on re-	5. LEASE DESIGNATION AND	
	GEOLOGICAL SURVEY	Jicarilla Apach	a 102
		6. IF INDIAN, ALLOTTEE OR	TRIBE NAME
	SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	Jicarilla Apach	e
1.		7. UNIT AGREEMENT NAME	
	OIL GAS WELL OTHER		
2 .	NAME OF OPERATOR	8. FARM OR LEASE NAME	
	AMOCO PRODUCTION COMPANY		
3.	ADDRESS OF OPERATOR	Jicarilla Apach	e 102
J .		J. WELL NO.	
	501 Airport Drive, Farmington, NM 87401	29	
4.	LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)	10. FIELD AND POOL, OR WIL	LDCAT
	At surface 1560' FNL & 1790' FEL, Section 9, T-26-N, R-4-W	Blanco Mesaverd 11. SEC., T., B., M., OR BLK. A SURVEY OR AREA	
		SW/4 NE/4 Section	on 9.
		T-26-N. R-4-W	· >,
14.	PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)		STATE
	7139' GL	Rio Arriba N	o Mai
			ew Mexico
16.	Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data	
	NOTICE OF INTENTION TO: SUBSEQU	ENT REPORT OF:	
	TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	REPAIRING WELL	<u> </u>
	FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CASING	·
	SHOOT OR ACIDIZE ABANDON® SHOOTING OR ACIDIZING	ABANDONMENT*	
	REPAIR WELL CHANGE PLANS (Other) Corrected S		[X]
	(Other) (NOTE: Report results Completion or Recomple	of multiple completion on Westion Report and Log form.)	/ell
17.	DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertica nent to this work.)*	including estimated date of 1 depths for all markers and	starting any zones perti-
	A		
	A corrected survey plat is being filed to show dedicated acrea	age as 320 acres	
	instead of 160 acres.		
			-





U. S. GEOLOGICAL SURVEY DUCANGO, COLO.

18. I hereby certify that the folegoing is true and correct SIGNED	TITLE Area Engineer	DATE 11/28/77
(This space (or) Federal or State office use)		
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE	DATE
	8	

*See Instructions on Reverse Side

WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

perator			F- 25:		Well No.		
Amoco Production Company		Jicarilla Apache 102		29			
Unit Letter			Range	County			
G	9	26N	47.	Rio Arriba			
Actual Footage Loc 1560	feet from the No	orth line and	1790	feet from the East	line		
round Level Elev.	i		Pool	_	Dedicated A reage:		
7139	Mesa	verde	Blanco M	<u>lesaverde</u>	1(a) Acres		
2. If more the interest and 3. If more the	 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 						
Yes If answer this form i	No If ar is "no." list the if necessary.)	ed to the well until all	consolidation	e actually been consoli	ommunitization, unitization, en approved by the Commis-		
	 	1560	1790	pesition AREA Company AMOCO	CERTIFICATION y certify that the information conherein is true and complete to the my knowledge and belief. KRUPKA ENGINEER PRODUCTION COMPANY 4BER 10, 1977		
		Sec 9		I hereb shown of notes of under miss true knowled Nove:	on this plat was plotted from field of actual surveys made by me or by supervision, and that the same and correct to the best of my dige and belief. B. Kerr Jr.		
330 660	90 1320 1650 198		1500 1000	500 6 3950	A Company of the Comp		

SUPPLEMENTAL INFORMATION TO FORM 9-331C REQUIRED BY NTL-6

JICARILLA APACHE 102 NO. 29 1560' FNL x 1790' FEL, SECTION 9, T-26-N, R-4-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	3846'	+3305'
Cliffhouse	4800'	+2351'
Menefee	55 3 5 '	+1616'
Point Lookout	5990 '	+1161'
Mancos	6150'	+1001'
TD	6250'	+ 901'

Estimated KB Elevation: 7152'

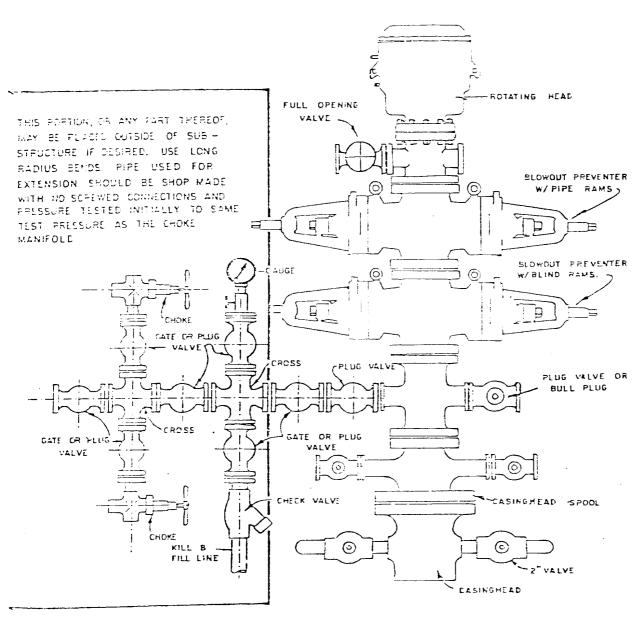
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS	CEMENT	- T	YPE
350 ' 4250 '	9-5/8" 7"	36# 20#	13-3/8" 8-3/4"		Class "B", Class "B", Med Tuf Pl		
6250 '	4-1/2"	10.5#	6-1/4"		Class "B"		ack

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 from TD to 4250': 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 nor hydrocarbon gas will be encountered.

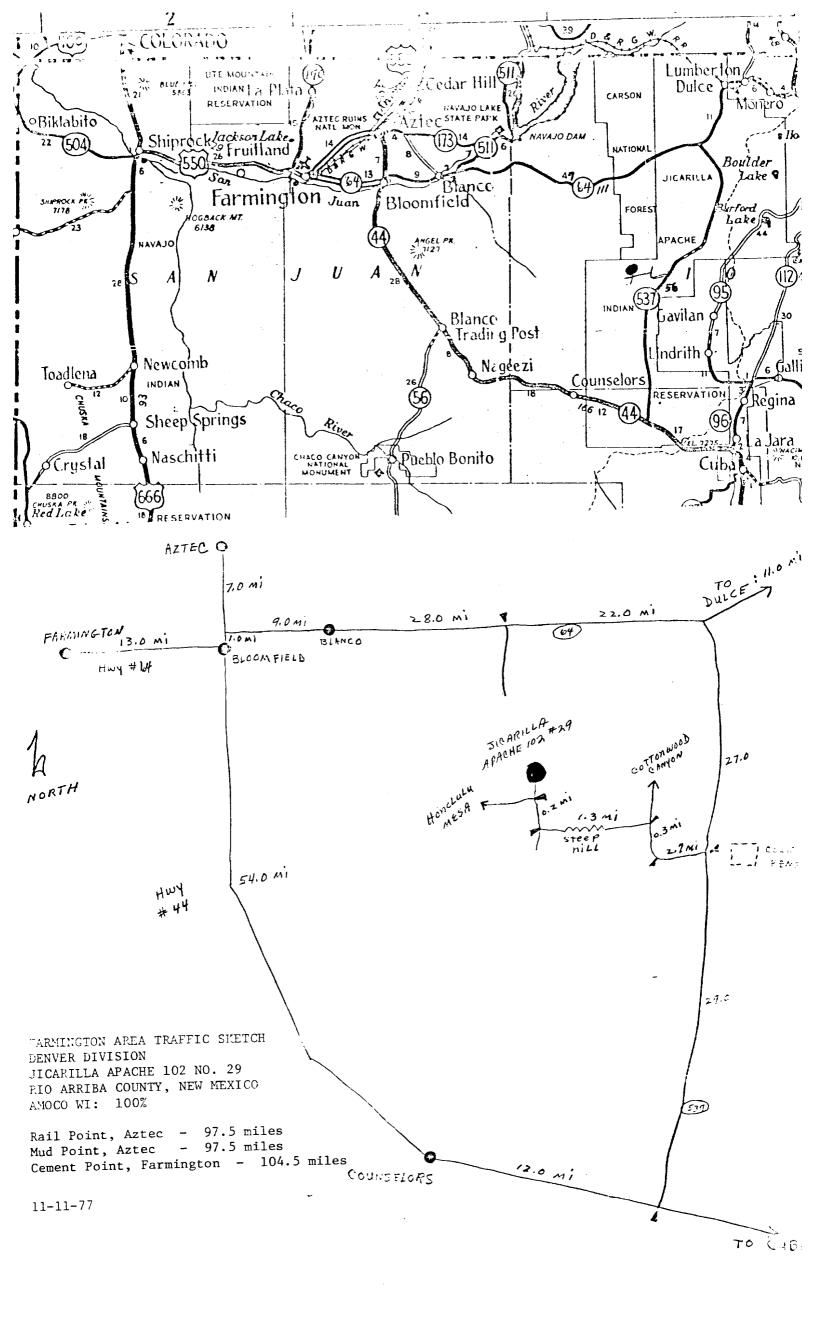


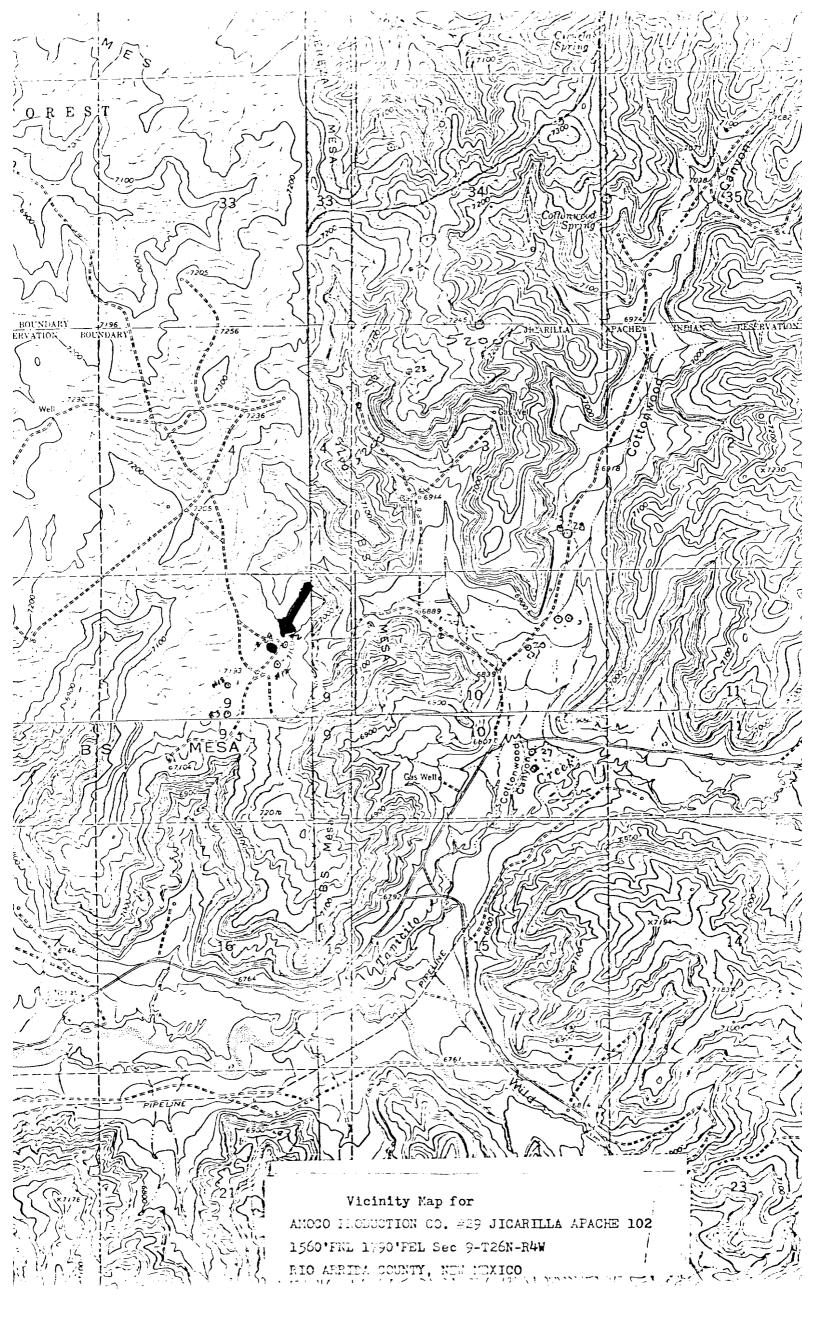
BLOWOUT PREVENTER HOOKUP

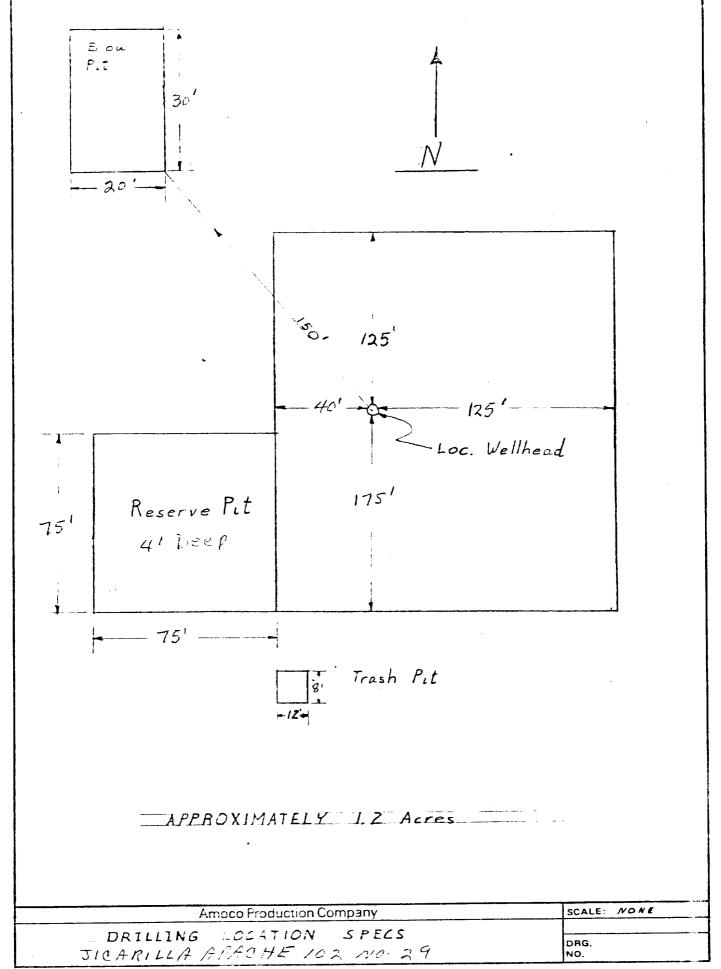
MULTI-POINT SURFACE USE PLAN

JICARILLA APACHE 102 NO. 29 1560' FNL & 1790' FEL, SECTION 9, T-26-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

- 1. The attached road map and sketch show the proposed route to the location and distances from nearby towns.
- 2. No new access road will be constructed as access to the location will be over an existing road.
- 3. Existing oil and gas wells within a one-mile radius of our propsed well have been spotted on the vicinity map.
- 4. There is a 380-barrel storage tank and facilities located at Jicarilla Apache 102 No. 12 which is spotted on the vicinity map.
- 5. The water for drilling will be hauled from a water hole in Tapacito Wash a distance of approximately 7 miles.
- 6. No construction material will be hauled in for building location.
- 7. Disposal of excess mud will be by hauling out of reserve pit and put on roads and bladed in.
- 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 on the east side of location will be required.
- 10. Restoration of the surface will be accomplished by cleaning up and levelling upon completion of the well. Reseeding of the site will be carried out as detailed in the attached Seeding Plan.
- II. The general topography and soil characteristics are a sandy clay which supports a vegetation of blue grama, rabbitbrush, Indian rice grass, galleta, tumbleweed, and sagebrush. The mesa top (Honolulu Mesa) is relatively level with a northerly drainage. Sandstone outcrops are abundant as are deposits of alluvium.
 - No cultural resources were found when inspected by Ms. Dabney Ford, Archaeologist, and clearance is recommended.
- 12. A Certification Statement by Amoco's representative is included.







SEEDING FLA

1. TIME:

All seeding will take place between July 1, and September 15, 1978, or as required by the U. S. Forest Service.

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, no 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.
Perennial Rye-Grass	0.57 lbs.
Western Wheatgrass	1.43 lbs.
Smooth Frome	1.14 lbs.
Intermediate Wheat	0.91 lbs.
Pubescent Wheatgrass	1.09 lbs.
Orchard Grass	.298 lbs.