1a. TYPE OF WORK

SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425. 5. LEASE DESIGNATION AND SERIAL NO.
SF 079757A
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

la. TYPE OF WORK	LL XX	DEEPEN [PLI	UG BACK		7. UNIT AGREEMENT NAME
b. TYPE OF WELL			-	MULTIPLE	<u>;</u>	San Juan 29-4 Unit
WELL W	ELL XX OTHER		SINGLE X	ZONE		O. FARM OR DEADE NAME
2. NAME OF OPERATOR		•			3	9. WELL NO.
MOCO PRODUCTION ADDRESS OF OPERATOR	ON COMPANY					1
SO1 AIRPART DRI	VE, FARMINGTON	. NM 87401				10. FIELD AND POOL, OR WILDCAT East
4. LOCATION OF WELL (R	eport location clearly and	in accordance wit	h any State requireme	ents.*)	- 41	Blanco Pictured Cliffs
	SL x 1630' FWL	, Section 9	, T29N, R4W			11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zor					-	SE/4 SW/4 Section 9
Same	AND DIRECTION FROM NEA	REST TOWN OR POS'	r office*			T-29-N, R-4-W 12. COUNTY OR PARISH 13. STATE
	ely 7 miles eas			ico		Rio Arriba NM
15 DISTANCE FROM PROP	OSED*	C OI GODEIN	16. NO. OF ACRES IN	LEASE 17		F ACRES ASSIGNED
· LOCATION TO NEARES PROPERTY OR LEASE	T Lin e, F T.	790 '	2238.02		TO TH	160-
(Also to nearest drl 18. DISTANCE FROM PROI			19. PROPOSED DEPTH	20	O. BOTAE	RY OR CABLE TOOLS
TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING, COMPLETED, T.	rst Well	4450'		-	Rotary
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)		•			22. APPROX. DATE WORK WILL START
6833' GL					\$	Within 90 days.
23.		PROPOSED CASH	NG AND CEMENTING	G PROGRAM	2 E	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	OOT SETTING	DEPTH	· [QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	350	7	E E	250 sx
7-7/8"	4-1/2"	9.5#	4450	-		= 1010 sx
					요 . 항 관	
	• ,	•	·			로 함께 이 등 분 km 이 조리를 이 되었다.
	J	hava 22011 +	a develop the	Fact R1:	anco	Pictured Cliffs more
Amoco proposes	to drill lie a	drilled th	rough the Pic	tured Cl:	iffs	formation using Rotary
tools and dril	ling mud. Comp	letion desi	gn will be ba	sed on o	pen h	nole logs. A diagram
and acreage nl	at are attached	 A copy o 	f all logs wi	lll be fi	led w	with your office on
completion T	he gas from thi	s well is n	ot dedicated.	Additi	onal	information required
by NTL-6 for the	ne application	to drill an	d a Multi-Poi	nt Surfa	ce Us	e Plan are attached.
		•			8 E S	
					No.	
			• .	-r.([통] 한화 시투 (통원 송월의 본)
					$\int_{z}^{x} G$	
						(한 팀) 집중 하운 현업하루
			\			
IN ABOVE SPACE DESCRIE	E PROPOSED PROGRAM : If	proposal is to dee	pen or plug back give	data on prese	ent prod	uctive zone and proposed new productive d and true vertical depths. Give blowout
zone. If proposal is to preventer program, if a	drill or deepen direction ny.	lany, give pertinen	t data on substitute	Angelia and a second control	il.	
24.	51)				<u>:</u> :	[필급] 등요 # - 유유형합
SIGNED	· Truck	TI	Area Engi	ineer	1.2	July 26, 1978
	eral or State office use)				1	الراب
(This space for Fed	erar or state omee use,					
PERMIT NO.		·	APPROVAL DAT	'B	D) EGFIVE (A)
·			mr *		IÑ	DATE
CONDITIONS OF APPRO	VAL, IF ANY:	TI	TLE			-Itit e 7 1076
	#					10r % (3a/8 5
oh 51	mk					O OFOLOGIAL OUTSIGN
		*See Instr	uctions On Reverse	e Side	U.	S. GEOLOGICAL SURVEY
						DURANGO, COL O.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Well No. Lease Operator 22 San Juan 29-4 Unit AMOCO PRODUCTION COMPANY Ronge Township Unit Letter Rio Arriba 29N Actual Footage Location of Well: 1630 West feet from the South line and Dedicated Acreage: Ground Level Elev. Producing Formation E. Blanco Pictured Cliffs ex 160 Pictured Cliffs 6833 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 Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. ume KRUPKA AREA ENGINEER AMOCO PRODUCTION COMPANY JULY 18, 1978 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. 1630 3950 2000 1960

SUPPLEMENTAL INFORMATION TO FORM 9-331C REQUIRED BY NTL-6 SAN JUAN 29-4 UNIT WELL NO. 22 790' FSL & 1630' FWL, SECTION 9, T-29-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	DEPTH	ELEVATION
Pictured Cliffs Total Depth	4200 ' 4450 '	+26331

Estimated KB elevation is 6845'.

The casing program to be used will include all new casing:

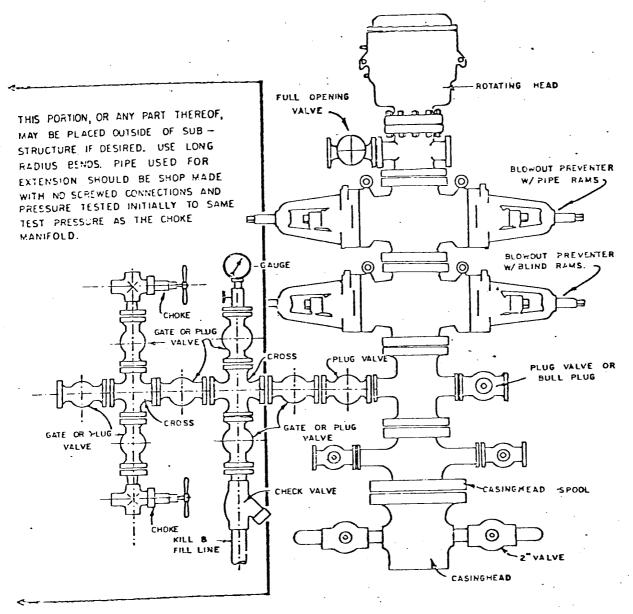
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
350 ' 4450 '	8-5/8" 4-1/2"	24# 9.5#	12-1/4" 7-7/8"	250 - Class "B" 2% CaCl ₂ . 910 - Class "B" 6% Gel, 2# Med Tuf Plug/sx. 100 - Class "B" Neat.

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

Amoco will run an Induction Electric Survey from TD to 350' and a Density-Gamma Ray Log from TD to 3000'. 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.

We will start operations as soon as well is permitted, and a three-week operation is anticipated.



BLOWOUT PREVENTER HOOKUP

OCTOBER 16,196

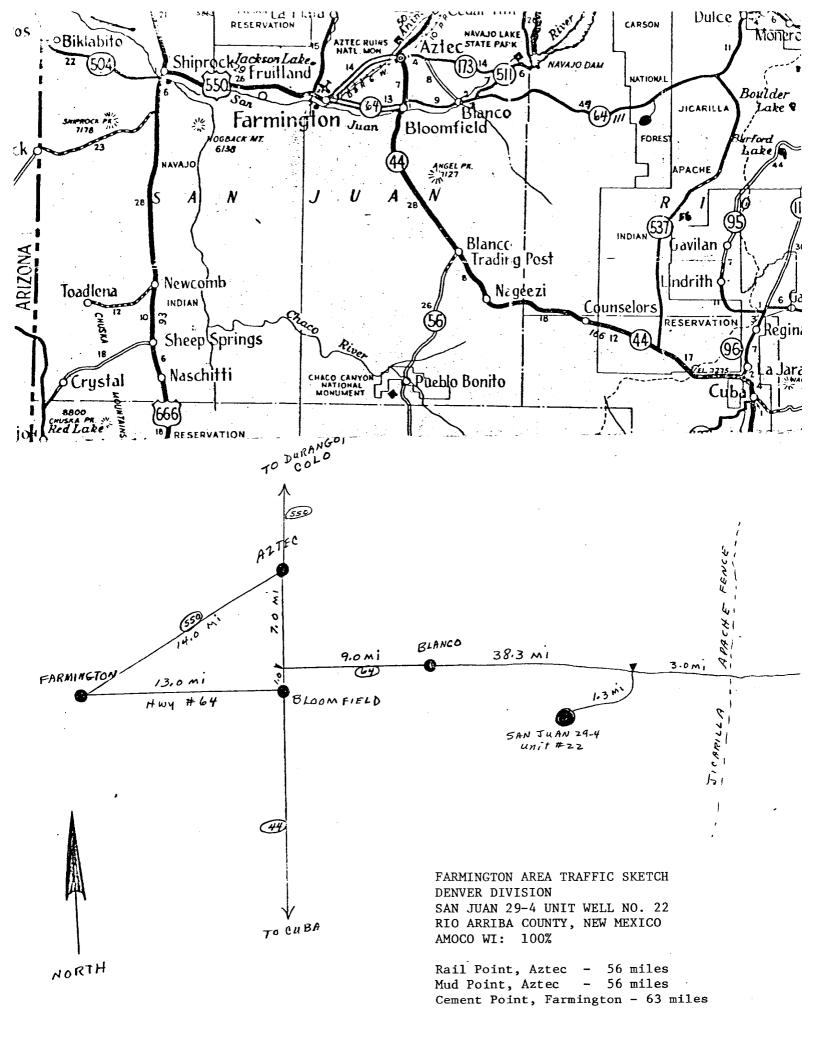
MULTI-POINT SURFACE USE PLAN

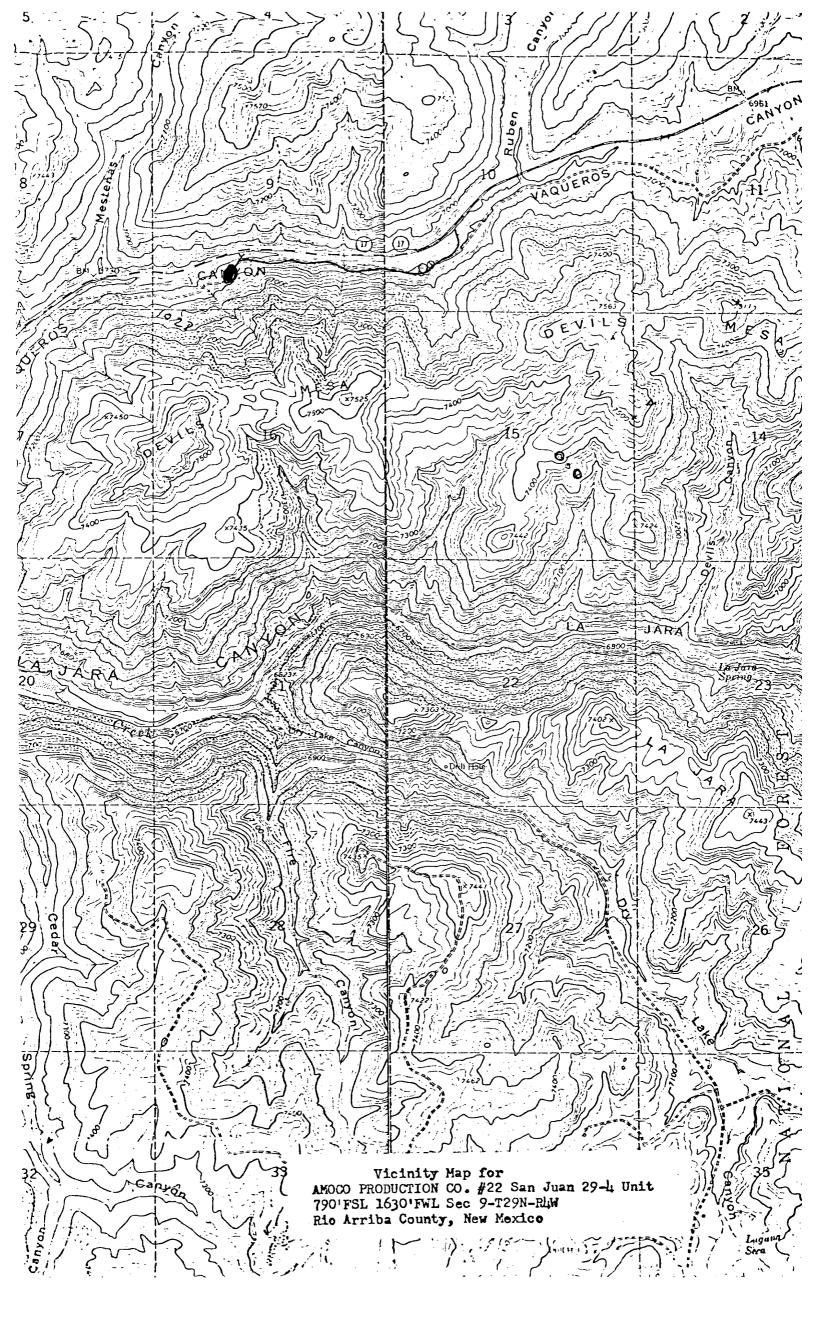
SAN JUAN 29-4 UNIT WELL NO. 22
790' FSL & 1630' FWL, SECTION 9, T-29-N, R-4-W
RIO ARRIBA COUNTY, NEW MEXICO

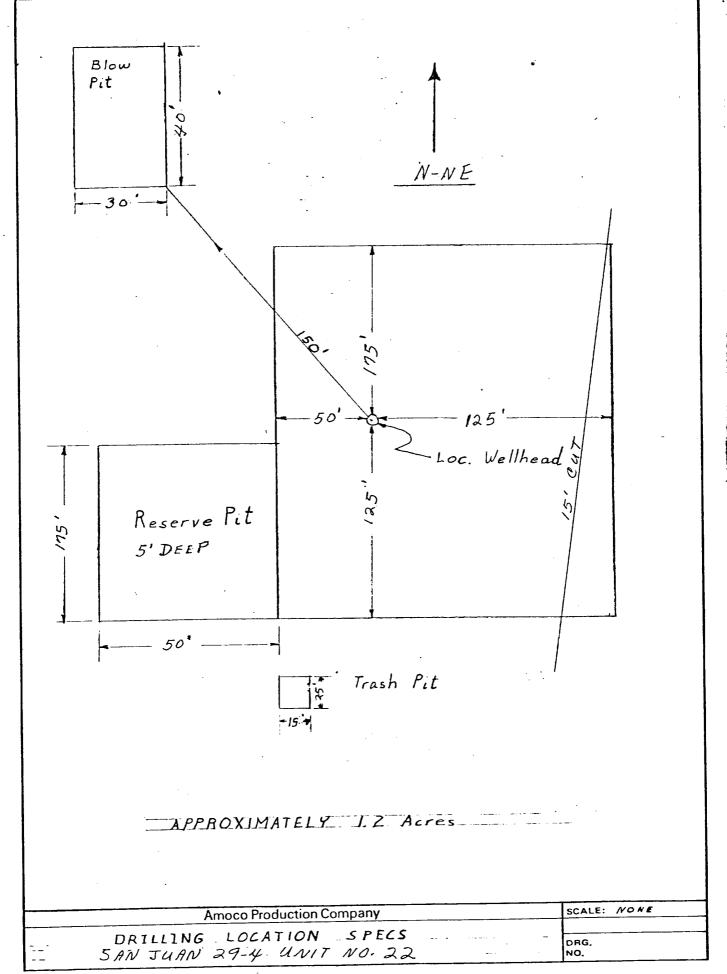
- 1. The attached road map and sketch show the proposed route to the location and distances from towns.
- 2. The planned access road will consist of rebuilding approximately 1.2 miles of an old existing road and to bottom out a wash. The location is on south side of Vaqueros Canyon overlooking U. S. Highway #64.
- Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- There are no tank battery facilities located at wells within a onemile radius of the proposed location.
- Water will be hauled from La Jara water hole located on Gas Buggy road a distance of approximately 9 miles.
- No construction materials will be hauled in for this location.
- 7. Excess mud will be hauled out of the reserve pit and bladed into existing roads. The Forest Ranger will be notifed before mud is bladed into 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 15-foot cut will be made on the east-southeast side of location.
- 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.
- 11. The general topography and soil characteristics are sandy, clay mix with vegation consisting of pinon and cedar trees with sagebrush and native grasses.

Representatives of the U. S. Geological Survey's Durango Office and U. S. Forest Service will inspect the site. Cultural resources inspection will be conducted by an archeologist from San Juan College or Salmon Ruins.

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







SEEDING PLAN

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.
Ladak Alfalfa	0.50 lbs.
Sweet Clover	0.50 lbs.
Perennial Rye Grass	0.57 lbs.
Western Wheatgrass	1.43 lbs.
Smooth Brome	1.14 lbs.
Intermediate Wheat	0.91 lbs.
Pubescent Wheatgrass	1.09 lbs.

SAN JUAN 29-4 UNIT WELL NO. 22 790' FSL & 1630' FWL, SECTION 9, T-29-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 be best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it

July 26, 1978 Date

Amoco Production Company's Representative:

L. O. Speer, Jr.

is approved.

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

Address: 501 Airport Drive

Farmington, NM 87401