#### SUBMIT IN TRIPLICATE\* (Other instructions on

Form approved. Budget Bureau No. 42-R1425.

		COF THE		nae)	30-039-2/727
DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY				NM 14921	
APPLICATION	N FOR PERMIT 1	O DRILL,	DEEPEN, OR PLUG I	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK					
DRI	LL 🖺	DEEPEN	☐ PLUG BA	CK ∐	7. UNIT AGREEMENT NAME
b. TYPE OF WELL OIL C.	AS TY		SINGLE (77) MULTII	PLE [7	Valencia Canyon Unit
WELL W	ELL X OTHER		ZONE ZONE		6. FARM OR LEASE NAME
AMOCO PRODUC	TTON COMPANY				9. WELL NO.
3. ADDRESS OF OPERATOR	TION COMPANI				
	DRIVE, FARMINGT	ON NM 87	401		10. FIELD AND POOL, OR WILDCAT
	•	•	th any State requirements.*)		Choza Mesa-Pictured Cliffs
At surface	=		n 27, T-28-N, R-4-W		
M = 1030	TOD A 1140 F	WI, SECTION	11 27, 1-20-N, K-4-W		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	e			-	SW/4 SW/4 Section 27
Same	AND DIRECTION FROM NEAR	THE POWEN OF THE		<u></u>	T-28-N, R-4-W
		REST TOWN OR POS	ST OFFICE		12. COUNTY OR PARISH 13. STATE
9 miles SE o			1.10		Rio Arriba NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST	•	_	16. NO. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL
PROPERTY OR LEASE I (Also to nearest drig	g. unit line, if any)	1030'	640	_	160
18. DISTANCE FROM PROF TO NEAREST WELL, D	OSED LOCATION <sup>®</sup> RILLING, COMPLETED,	_	19. PROPOSED DEPTH	20. BOTA	ARY OR CABLE TOOLS
OR APPLIED FOR, ON TH	IS LEASE, FT.	2600'	4365'		Rotary
21. ELEVATIONS (Show who	· · · · · · · · · · · · · · · · · · ·			*	22. APPROX. DATE WORK WILL START*
7244' est. G					As soon as well permitted
23.	F	ROPOSED CASI	NG AND CEMENTING PROGE.	AM	× 8
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER B	OOT SETTING DEPTH	1	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	300'		250 <sub>SX</sub>
7-7/8"	4-1/2"	10.5#	4365'		1230 sx
_					
		l	i	1	
The well will be will be based or	e drilled with n open hole log	a low solic s. This a	ds non-dispersed muc creage is not dedica	d syste ated.	Pictured Cliffs Field. em. Completion design Additional information Gurface Use Plan are
		1 1 1	1.		The second secon

Januard de intel

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout 2

reventer program, if any.		
SIGNED	Area I	Engineer April 24, 1978
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL	RECEIVED
APPROVED BY	TITLE	APR 2 6 1978

\*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO. COLO.

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-61

All distances must be from the outer boundaries of the Section

Operator	ator Lease				Well No.
Amoco Production Company			Valencia Canyon	29	
Unit Letter	etter Section Township		Range	Range County	
M Actual Footage Loc	27 ation of Well:	28N	ТАМ	Rio Arriba	<u> </u>
1030	feet from the <b>Sou</b>	th line and	11) <sub>4</sub> 0 fee	et from the West	line
Ground Level Elev.	Producing Fore	nation	Pool		Dedicated / reage:
	7244 Pictured Cliffs Choza Mesa Pictured Cliffs 100 Acres				
1. Outline th	e acreage dedicat	ted to the subject we	ell by colored pencil o	or hachure marks on th	e plat below.
2. If more th interest ar	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?					
Yes	No If an	swer is "yes;" type o	f consolidation		
If answer i	is "no," list the o	owners and tract descr	riptions which have a	ctually been consolida	ted. (Use reverse side of
this form if	necessary.)		<del></del>		
No allowah forced-pool sion.	ole will be assigne ing, or otherwise)	d to the well until all or until a non-standard	interests have been dunit, eliminating suc	consolidated (by comr h interests, has been	nunitization, unitization, approved by the Commis-
					CERTIFICATION
	i				CERTIFICATION
	1		1	I hereby c	ertify that the information con-
	i I		1	1 1	ein is true and complete to the
	; 		1	best of mix	knowledge and belief.
	İ		1		· Jaroh
	-+			Yame J. L.	KRUPKA
	1		ļ	Position AREA F	NGINEER
				Company	
	i		į	Date	PRODUCTION COMPANY
	1			DECEMB	ER 14, 1977
		ec	<u> </u>		
	1	27	1		and the second second
	i		1	1 1	ertify that the well-location his plat was plotted from field
	•		l I	1 1	ctual surveys made by me or
	ļ		l l	i i	upervision, and that the same
	1		i	11	d correct to the best of my
<b>!</b>	_ +	🖠		knowledge	and belief.
11),0'			1		
	Ĭ ;			Date Surveye	
	0301		As a first of		er 8, 1977/
	103			and/or Land	Surveyor
				Fred B.	
0 330 660 <b>9</b>	0 1320 1650 1980	2310 2640 2000	1500 1000 50	3000	

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

# VALENCIA CANYON UNIT NO. 29 1030' FSL & 1140' FWL, SECTION 27, T-28-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

The geologic name of the surface formation is the Paleozoic San Juan.

The estimated tops of important geological formations bearing hydrocarbons are:

FORMATION	DEPTH	ELEVATION
Pictured Cliffs	4064'	+3190'
Lewis Shale	4264'	+2990'
TD	4365'	

Estimated KB Elevation: 7254'

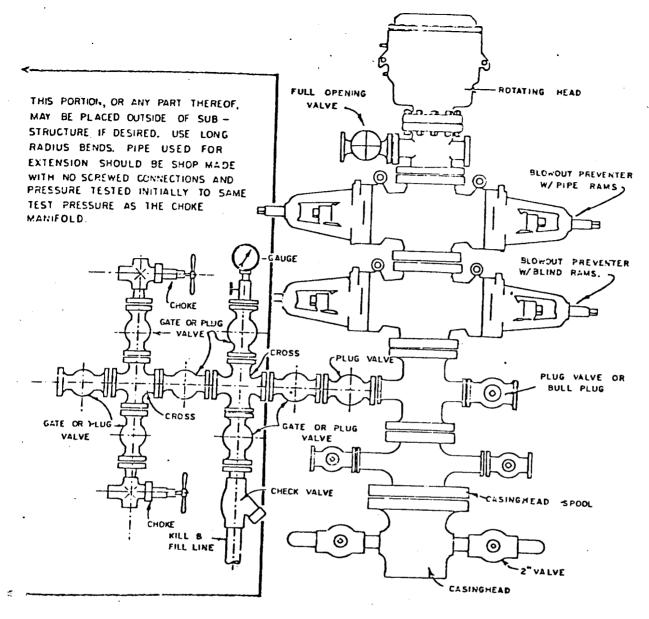
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS	CEMENT - TYPE
300 <b>'</b> 4365'	8-5/8" 4-1/2"	24# 10.5#	12-1/4" 7-7/8"	250 1130	sx - Class "B", 2% CaCl <sub>2</sub> . sx - Class "B", 6% Gel, 2# Med. Tuf Plug/sx.
				100	sx - Class "B" Neat.

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: from TD-300', Induction-Electric; from TD-2365', 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.



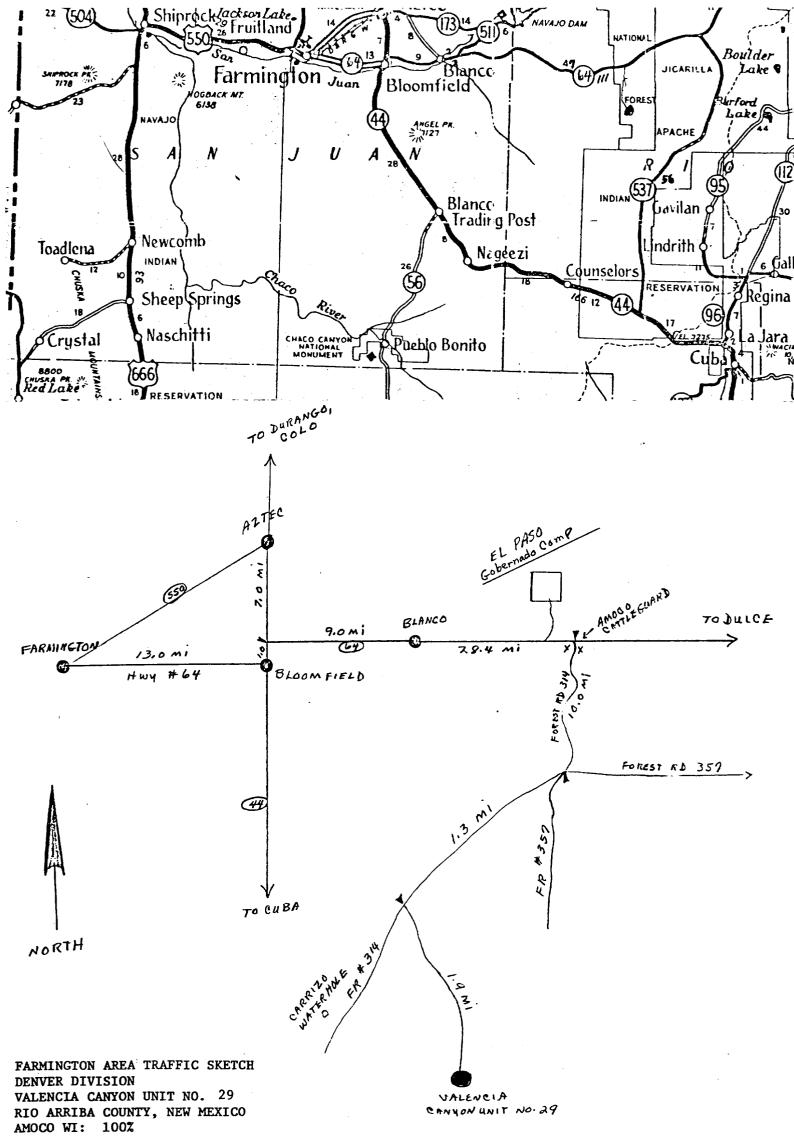
BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4 OCTOBER 16,1969

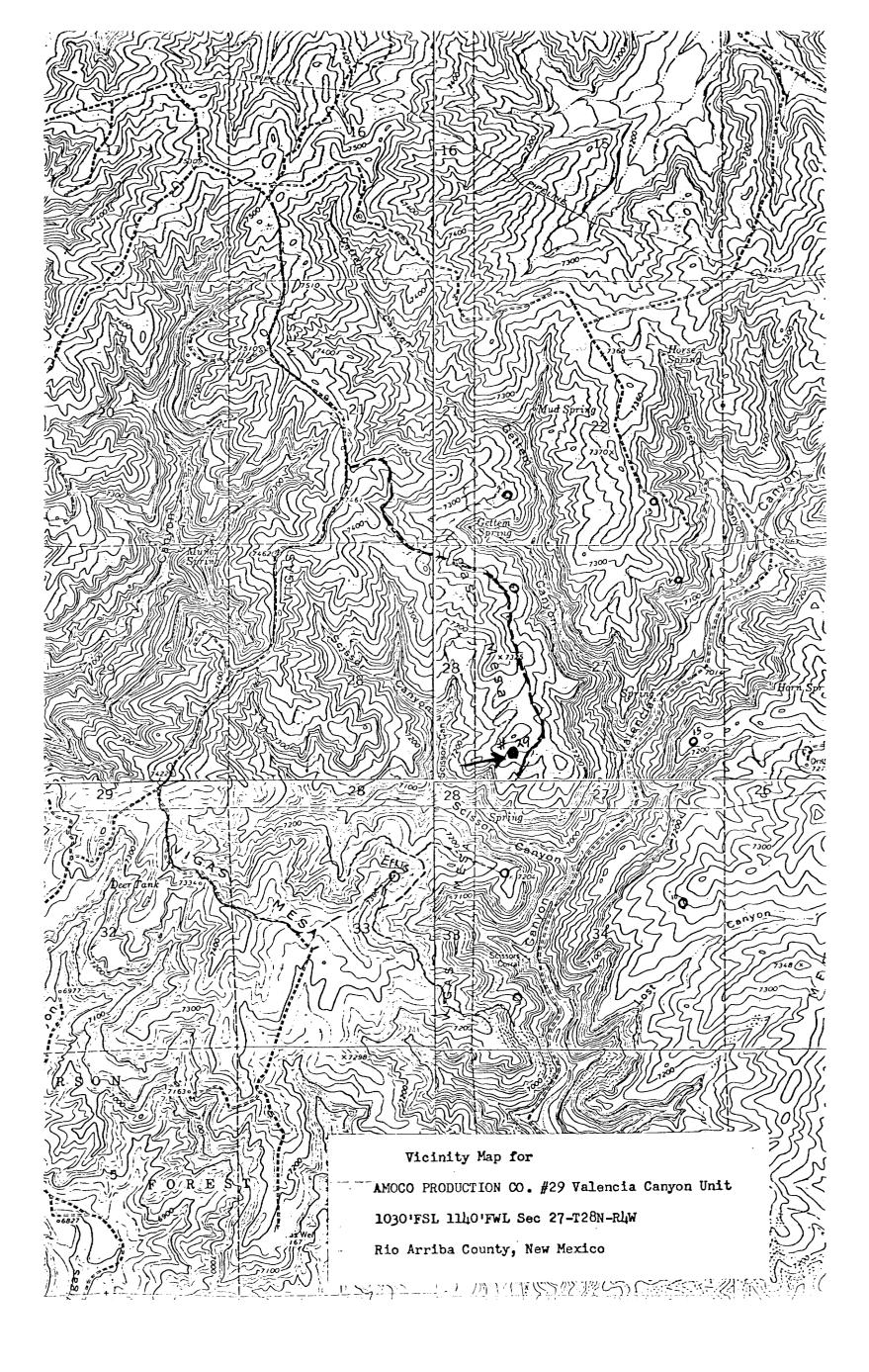
### MULTI-POINT SURFACE USE PLAN

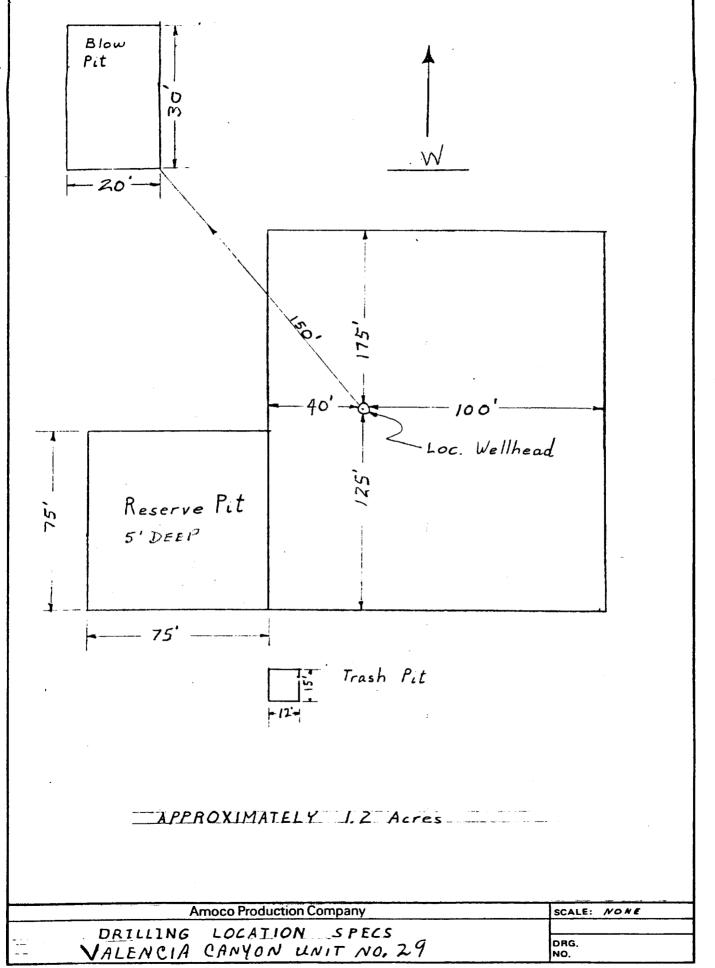
# VALENCIA CANYON UNIT NO. 29 1030' FSL & 1140' FWL, SECTION 27, T-28-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

- 1. The attached road map and sketch show the proposed route to the location and distances from towns.
- 2. The planned access road eight-tenths of a mile in length to be reconstructed from Valencia Canyon Unit No. 28. Road will be 18' wide and bar ditched on high side.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- 4. There are no tank batteries located at nearby wells spotted on the vicinity map.
- 5. Water will be hauled from Carrizo Wash or from the El Paso water hole approximately 8 miles on existing roads.
- 6. No construction materials 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 out and bladed into existing roads. The Forest Ranger will be notified before mud is bladed into roads.
- 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.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as detailed in the attached seeding plan.
- 11. The general topography and soil characteristics are a level terrace/ mesa top with southerly drainage. The soil is a sandy, loamy clay, with vegetation consisting of pinon and juniper trees, and sagebrush and native grasses.
  - Representatives of the U. S. Geological Survey's Durango Office and U. S. Forest Service have inspected the site and found it suitable for drilling. Ms. Dabney Ford of San Juan College conducted the archaeological clearance survey and no cultural resources were found at this site.
- 12. A Certification Statement by Amoco's representative is included.



Rail Point, Aztec - 58 miles
Mud Point, Aztec - 58 miles
Cement Point, Farmington - 65 miles





#### 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:

O ... atad IThoatamago

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.

0 71 1hc

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

Crested wheatgrass	0.71 Ibs.
Russian Wild Rye	0.86 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.
Orchard Grass	.298 lbs.

# VALENCIA CANYON UNIT NO. 29 1030' FSL & 1140' FWL, SECTION 27, T-28-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
have inspected the proposed driftsite and decess 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
statements made in this plan are, to be best of my knowledge, allow
and correct; and, that the work associated with the operations
proposed herein will be performed byAMOCO PRODUCTION
COMPANY and its contractors and sub-contractors in con-
formity with this plan and the terms and conditions under which it

April 24, 1978 Date Dewig Area Supt.

Name and Title

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