(This space for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO. _

APPROVED BY _

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

DELAKTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.	
GEOLOGICAL SURVEY						NM 14921	
APPLICATION	I FOR PERMIT	O DRILL,	DEEPE	N, OR PLU	JG BAC	CK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK	LL 🐼	DEEPEN	\Box	PILIG	BACK	\neg	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	LL XX	DELITEIN		FLOG	DACK	_	Valencia Canyon Unit
OIL C	S CTHER		8IN ZON		MULTIPLE SONE		S. FARM OR LEASE NAME
AMOCO PRODUCT	ION COMPANY						9. WELL NO.
ADDRESS OF OPERATOR							28
501 AIRPORT D	RIVE, FARMINGTO	N. NM 874	01				10. FIELD AND PCOL, OR WILDCAT
	port location clearly and			ate requirements.	*)		Choza Mesa-Pictured Clif
At surface 820' F.	NL x 860' FWL,	Section 27	, T-28	8-N, R-4-W			11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	e						NW/4 NW/4 Section 27,
Same							T-28-N, $R-4-W$
DISTANCE IN MILES A	ND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE				12. COUNTY OR PARISH 13. STATE
8 miles SE of							Rio Arriba NM
5. DISTANCE FROM PROPO LOCATION TO NEAREST	1		16. NO.	OF ACRES IN LEA	ASE 17		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE L (Also to nearest drig	. unit line, if any)	820'		640		160	
8. DISTANCE FROM PROPO TO NEAREST WELL, DI	ILLING, COMPLETED,	10751	19. PROPOSED DEPTH			20. ROTARY OR CABLE TOOLS	
OR APPLIED FOR, ON THE		1875 '	1	4400'			Rotary 22. APPROX. DATE WORK WILL START*
7270' est. GL	ther Dr. RT, GR, etc.)						
7270 est. GL		PROPOSED CASI	NG AND	CEMENTING P	ROGRAM		As soon as well permitte
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	тоот	SETTING DEPT	т		QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#		300 '			250 sx
7-7/8"	4-1/2"	10.5#		4400'			1240 sx
		1	i		ı		
The well will will be based	be drilled wit on open hole 1	h a low so ogs. This	lids n acrea	on-dispers ge is not	sed mud dedica	sys	a-Pictured Cliffs Field. tem. Completion design Additional information Surface Use Plan are
							APR
ne. If proposal is to eventer program, if any	drill or deepen directions	proposal is to dee this, give pertinen	pen or plu	ng back, give date subsurface locat	a on presentions and m	at produceasured	uctive sone and proposed new productive and true vertical sepths. Give blowout
24.	\mathcal{L}_{i}		۸۳۵	a Engineer	_		An-11 2/ 107

APR 2 6 1978

TITLE

APPROVAL DATE

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

		All distances must be i	rom the outer bound	aries of the Section	on.
Operator	ation Company	_	Lease		Well No.
Unit Letter	ction Company	Township	Valencia C	County	28
D	27	28N	14W	1 -	Arriba
Actual Footage Loc	<u> </u>			11120 1	
820		orth line and	860	feet from the	West line
Ground Level Elev.	Producing For		Pool Chora Mo	ca Piaturod	Dedicated A reage:
7270	Pictured	·····	<u> </u>		1/ 1.10 Acre
1. Outline th	e acreage dedica	ted to the subject w	ell by colored p	encil or hachur	e marks on the plat below.
	an one lease is d royalty).	dedicated to the wel	l, outline each	and identify the	e ownership thereof (both as to workin
		ifferent ownership is anitization, force-pooli		well, have the	e interests of all owners been consoli
Yes	No If an	nswer is "yes;" type o	f consolidation		
	s "no," list the	owners and tract desc	riptions which	ave actually be	een consolidated. (Use reverse side o
No allowab forced-pool sion.	le will be assignding, or otherwise)	ed to the well until all or until a non-standar	interests have d unit, eliminat	been consolida	ated (by communitization, unitization sts, has been approved by the Commis
_			1		CERTIFICATION
820	İ		1		I hereby certify that the information con
	1		,		tained herein is true and complete to th
8601	1		i		best of my knowledge and belief.
	İ		İ		
:	1	1	1		Same
: 	· - +				J\ L. KRUPKA
· ·			i I		Rosition AREA ENGINEER
	†		 		Company AMOCO PRODUCTION COMPAN
			 		DECEMBER 14, 1977
		27	1		
	1		1		I hereby certify that the well-location
			1		shown on this plat was plotted from field
	1		ĺ		notes of actual surveys made by me o
	l I		i		under my supervision, and that the same
	I 1		1		is true and correct to the best of my knowledge and belief.
L	· · + -				Allowicage and belief.
	1		.		
	ŀ	,	:		Date Surveyed
	1		. 1		December 8, 1977/
	ļ		1		Registered Professional Engineer and/or Land Surveyor
	i				The state of the s
	1				Fred B. Kerr Jr.
			nessession p		Certificate No.
0 330 660 9	0 1320 1650 1980	2310 2640 2000	1500 100	500 0	3950. 1860

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

VALENCIA CANYON UNIT NO. 28 820' FNL & 860 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	4100'	+3180*
Lewis Shale	4300'	+2980'
TD	4400	

Estimated KB Elevation: 7280'

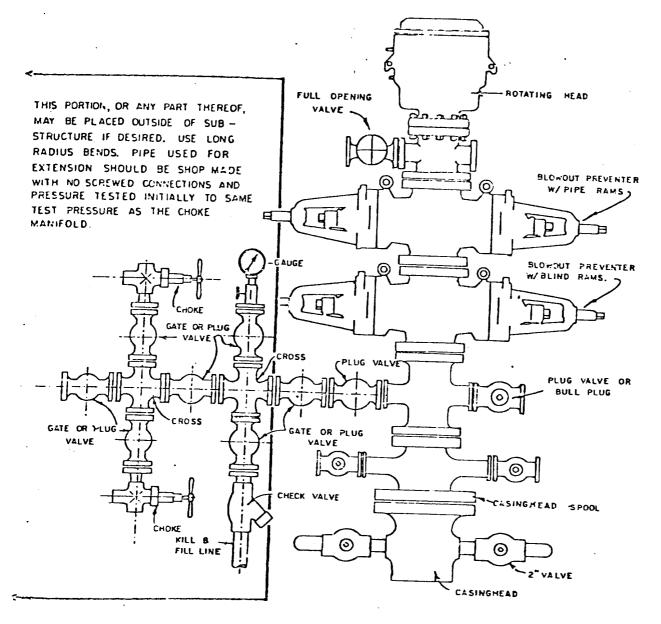
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300 ' 4400'	8-5/8" 4-1/2"	24# 10.5#	12-1/4" 7-7/8"	250 sx - Class "B", 2% CaCl ₂ . 1140 sx - Class "B", 6% Gel, 2# Med. Tuf Plug/sx. 100 sx - Class "B" Neat.

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-2400', 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.



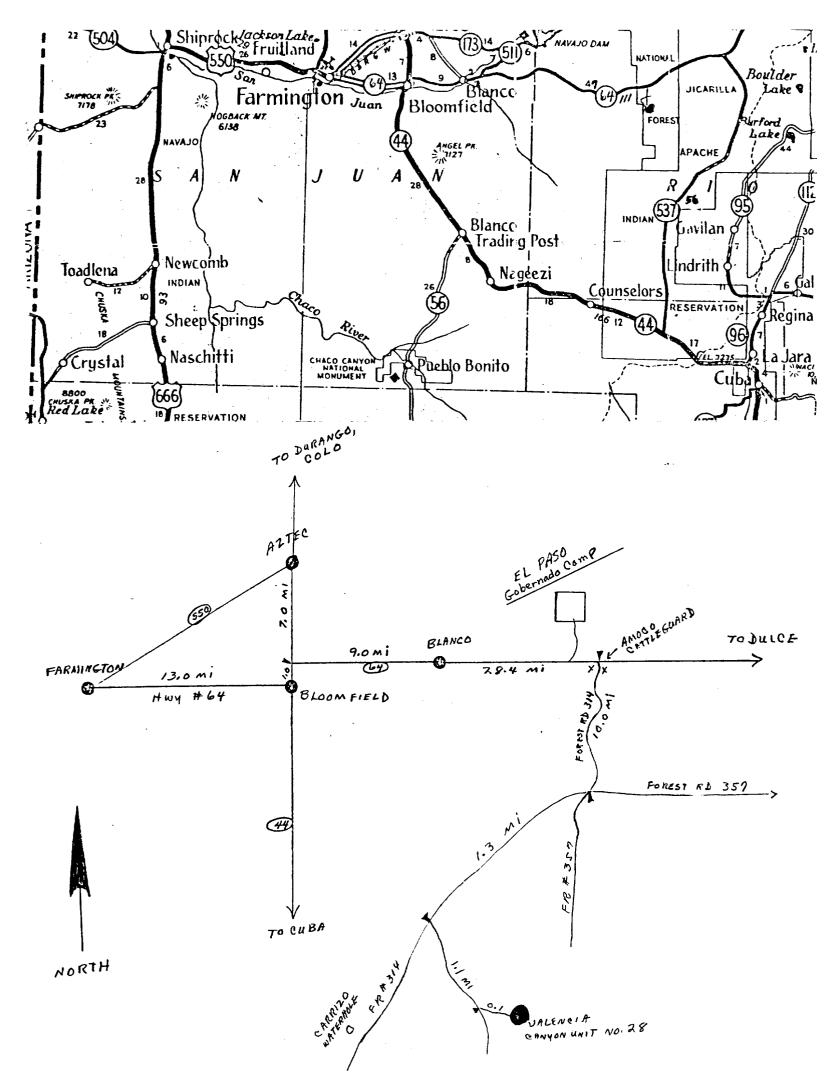
BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969

MULTI-POINT SURFACE USE PLAN

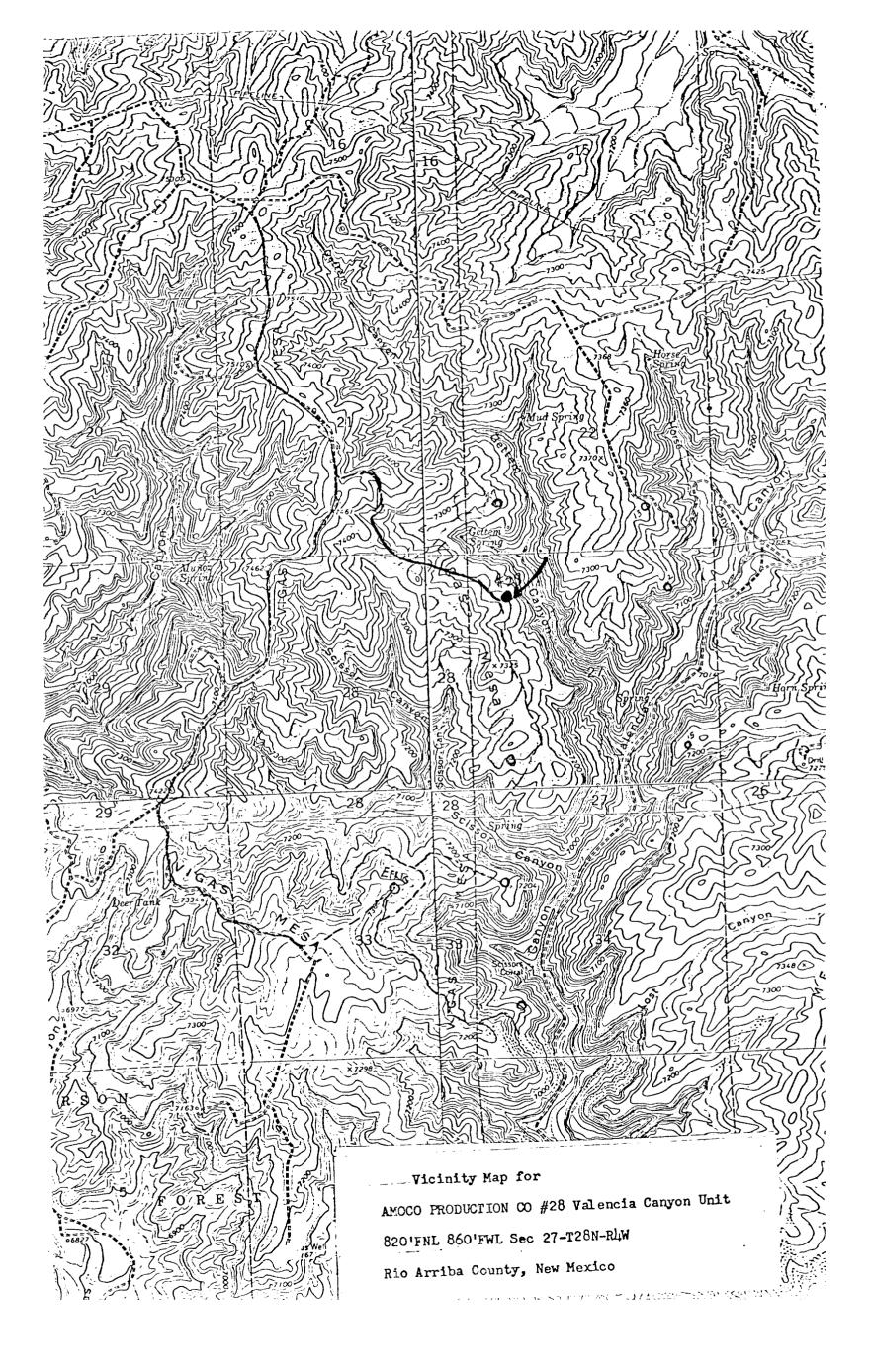
VALENCIA CANYON UNIT NO. 28 820' FNL & 860' FWL, SECTION 27, T-28-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

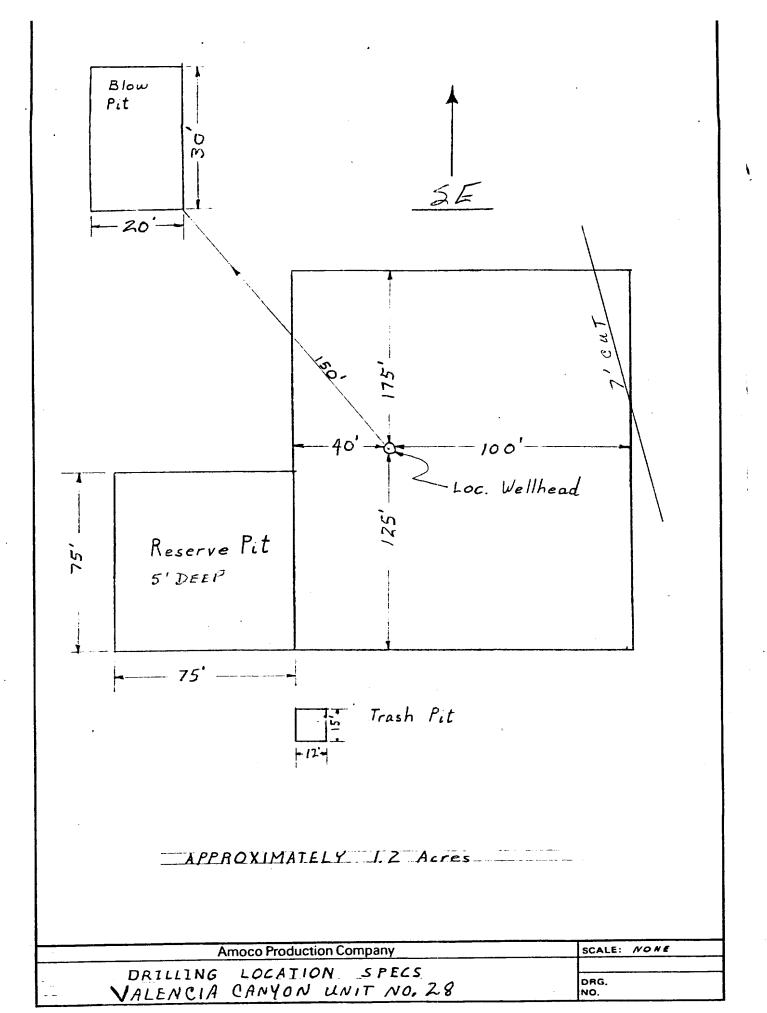
- The attached road map and sketch show the proposed route to the location and distances from towns.
- 2. An 18-foot wide access road one-half mile in length from Valencia Canyon Unit No. 27 turnoff to be reconstructed and one-tenth mile to be built to location. It will be bar ditched on high side.
- 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. A cut of approximately 7 feet will be made on southwest side of location.
- 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 mesa/ terrace top with northerly drainage. The soil is a sandy, rocky loam, with vegetation consisting of several large pine trees, pinon, juniper, 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.



FARMINGTON AREA TRAFFIC SKETCH DENVER DIVISION VALENCIA CANYON UNIT NO. ²⁸ RIO ARRIBA COUNTY, NEW MEXICO AMOCO WI: 100%

Rail Point, Aztec - 57 miles
Mud Point, Aztec - 57 miles
Cement Point, Farmington - 64 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:

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 Brome	1.14 lbs.
Intermediate Wheat	0.91 lbs.
Pubescent Wheatgrass	1.09 lbs.
Orchard Grass	.298 lbs.
•	

VALENCIA CANYON UNIT NO. 28 820' FNL & 860' 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 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

COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

April 24, 1978

Date

Area Supt.

Name and Title

Amoco Production Company's Representative:

L. O. Speer, Jr.

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

Address: 501 Airport Drive

Farmington, NM 87401