SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

30-034- 31596

					5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	GICAL SURVEY			NH 14919
	N FOR PERMIT 1	O DRILL, DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
la. TYPE OF WORK	LL 🛣	DEEPEN 🗌	PLUG BA	CK 🗀	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	LL el		TEOG DA		Valencia Canyon Unit
OIL GA	ELL TOTHER		INGLE MULTI	PLE	8. FARM OR LEASE NAME
2. NAME OF OPERATOR					
AMOCO PRODUC	TION COMPANY				9. WELL NO.
3. ADDRESS OF OPERATOR					10 MINI AND POOL OF WARREN
JUL ALRPORT	DRIVE, FARMINGS eport location clearly and	in accordance with any	State requirements *)		10. FIELD AND POOL, OR WILDCAT
At surface	NL x 800' FEL,				Chosa Mesa-Pictured Clif 11. SEC., T., B., M., OR BLK.
1	•	age. 43, 1~40~!	4 Muset with		NE/4 NE/4 Sec. 25
At proposed prod. zon	e				T-28-N. R-4-W
	AND DIRECTION FROM NEAR	REST TOWN OR POST OFFIC	E*		12. COUNTY OR PARISH 13. STATE
10 miles SE	of Gobernador				Rio Arriba NM
15. DISTANCE FROM PROPO	SED*	16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	800°	640	10 1	160
18. DISTANCE FROM PROP	OSED LOCATION*	19. P	ROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
TO NEAREST WELL, DO OR APPLIED FOR, ON THE		34001	4400'		Rotary
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK WILL START*
SIZE OF HOLE	SIZE OF CASING	ROPOSED CASING AN	SETTING DEPTH	AM	QUANTITY OF CEMENT
				_	
12-1/4**	8-5/81	24#	300'		250 gr
12-1/4 ¹⁵ 7-7/8 ¹¹	8-5/8 ¹¹ 4-1/2 ¹⁷	10.54	300* 4400*		250 sx 1250 sx
7-7/8" The above we Field. The pletion desi Additional i	4-1/2" ll is being dri well will be dr gn will be base	lled to further illed with a load on open hole ired by NTL-6	develop the (solids non-di logs. This action the applica	sperse reage ition to	
7-7/8" The above we Field. The pletion desi Additional 1 Point Surface	11 is being dri well will be dr gn will be base nformation requ e Use Plan are	10.54 lied to further illed with a lond on open hole ired by NTL-6 attached.	develop the constant of the application of the appl	procent prod	1250 sx ess-Pictured Cliffs d mud system. Com- is not dedicated.

CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO.

(This spece for Federal or State office use)

*See Instructions On Reverse Side

TITLE

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

DEC 2 1 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

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, show-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 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 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. applicable State or Federal regulations concerning subsequent work proposals or reports on the well. be obtained from, the local Federal and/or State office. State or Federal office for specific instructions.

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239

All distances must be from the outer boundaries of the Section.

Among Production Company Valencia Canyon Unit Section A 25 20N	Operator			Lease			Well No.	
A count posings Locution of Walt 850 test from the North Position Francisco Common Lynn Elever Producing Francisco Position Chief S 1. Outline the acreage Eddicated to the subject well by colored pencil or backure 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? Yes No If answer is "yes," type of consolidation 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, force-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 hereby carrily that the validation of the sense of the pool of the part of my hereby carrily that the validation of the sense of the best of my hereby carrily that the validation of the sense is the end carried to the best of my hereby and belief. DEC 2 7 977 DEC 2 7 977 December 9 3 277 Frid B. Kert JT.*	Amoco Production Company			Valencia Canyon Unit 18			18	
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SUPPLEMENTAL INFORMATION TO FORM 9-331C

REQUIRED BY NTL-6

VALENCIA CANYON UNIT NO. 18 850' FNL & 800' FEL, SECTION 25, 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	4103'	+3220'
Lewis Shale	4303'	+3020'
TD	4400'	

Estimated KB Elevation: 7323'

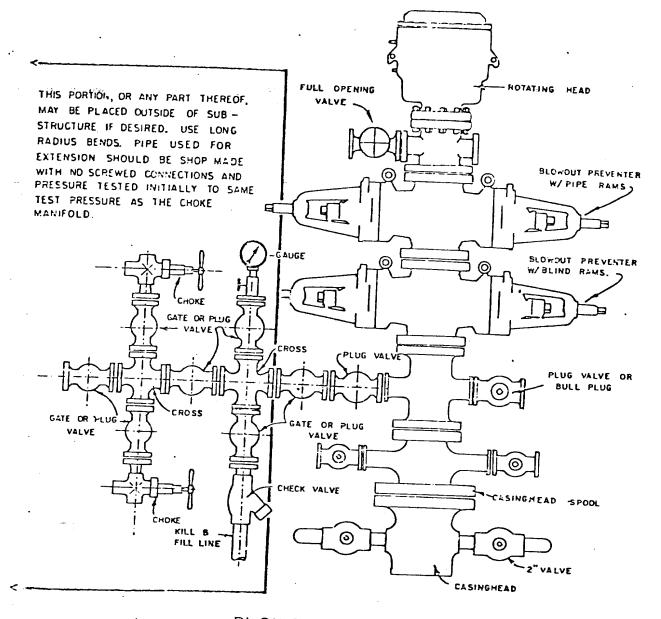
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300'	8-5/8"	24#	12-1/4"	250 sx - Class "B", 2% CaCl ₂ . 1150 sx - Class "B", 6% Gel, 2# Med. Tuf Plug/sx. 100 sx - Class "B" Neat.
<u>4400</u> '	4-1/2"	10.5#	7-7/8"	

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 300', Induction-Electric; from TD to 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.



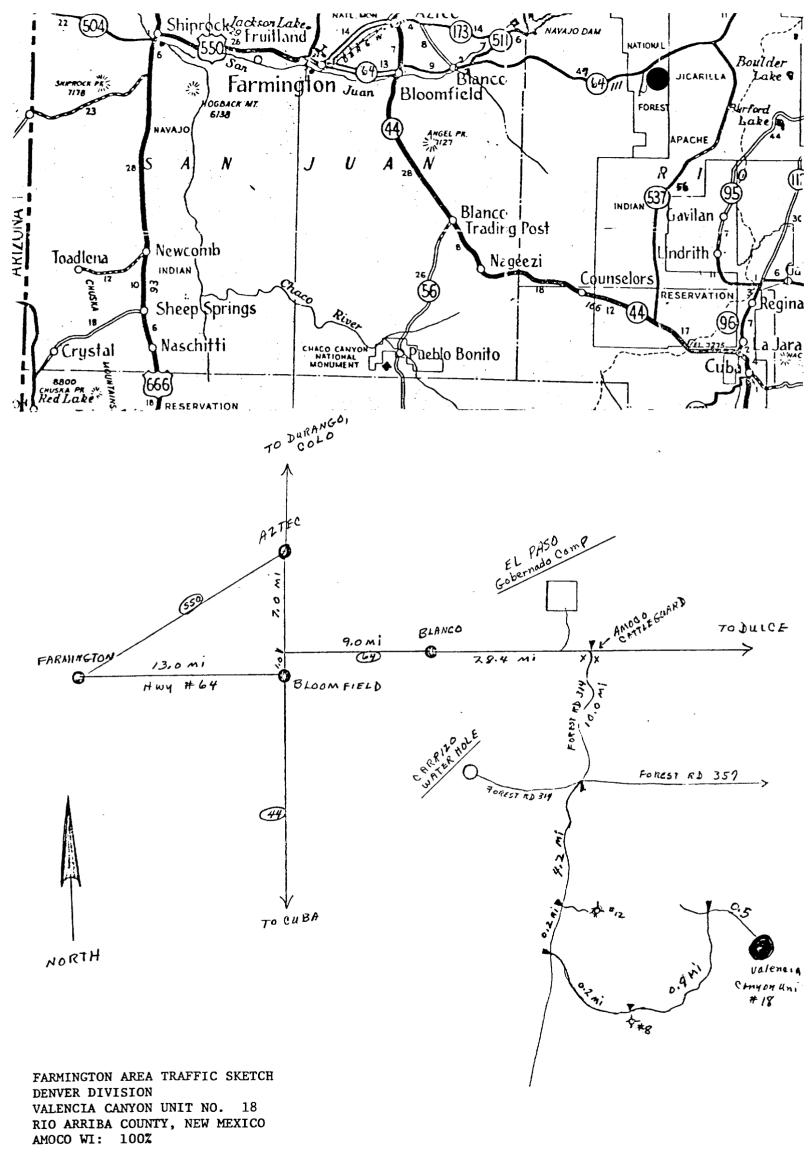
BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969

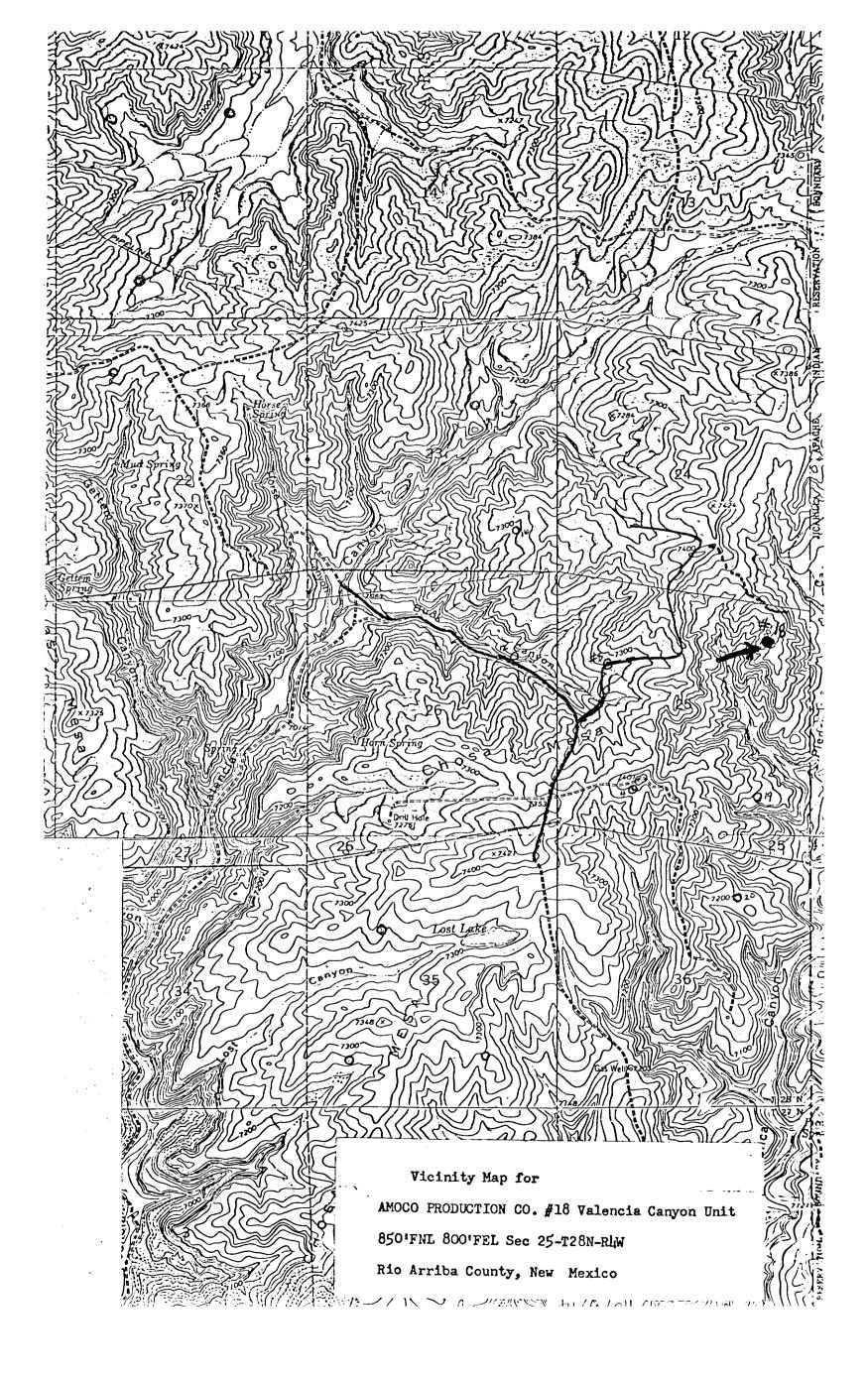
MULTI-POINT SURFACE USE PLAN

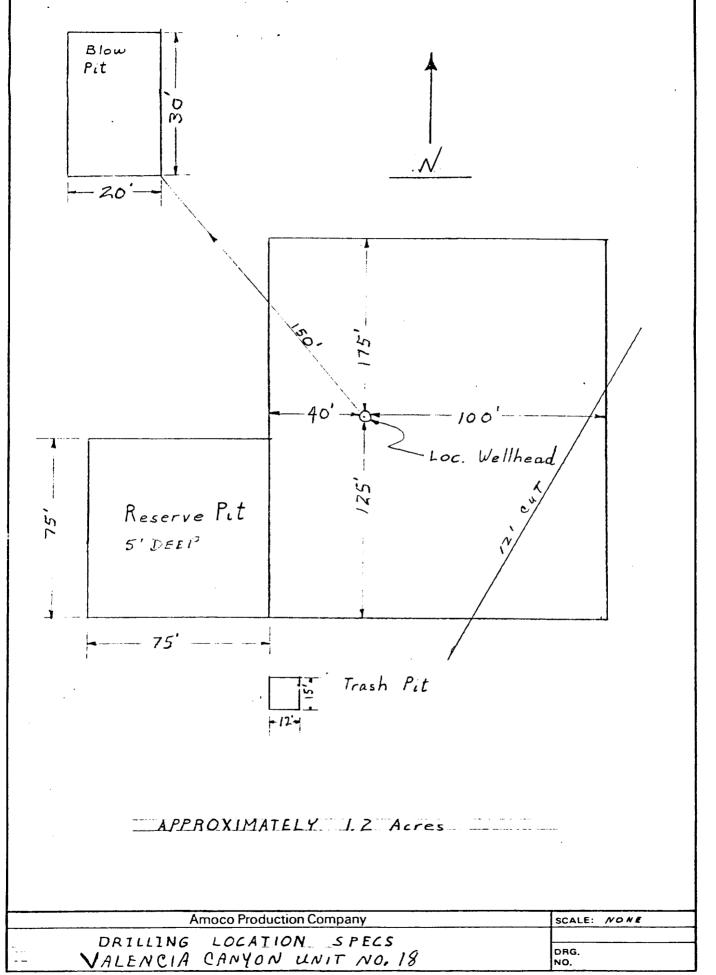
VALENCIA CANYON UNIT NO. 18 850' FNL & 800' FEL, SECTION 25, T-28-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

- 1. The attached road map and sketch show the proposed route to the location and distances from towns.
- 2. An access road one-half mile in length will be built as indicated on the attached vicinity map.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- 4. There is a 210-barrel storage tank and facilities located at Valencia Canyon Unit No. 4 which is spotted on the vicinity map.
- 5. Water will be hauled from Carrizo Wash or from the El Paso water hole approximately 10 miles on existing roads.
- 6. 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 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 12 feet will be necessary on the southeast corner of this location.
- 10. Restoration of the surface will be accomplished by cleaning up and levelling 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 sandy-clay with various grasses and occasional pinon trees.
 - Representatives of the U. S. Geological Survey and U. S. Forest Service have inspected the site and found it suitable for drilling. No cultural resources were found when Ms. Suzanne DeHoff, Archaeologist, made her inspection.
- 12. A Certification Statement by Amoco's representative is included.



Rail Point, Aztec - 60.4 miles
Mud Point, Aztec - 60.4 miles
Cement Point, Farmington - 67.4 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. 18 850' FNL x 800' FEL, SECTION 25, 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.

December 19, 1977
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