SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

30-639-21595 DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK DRILL XXX DEEPEN . h. TYPE OF WELL S. FARM OF LEASE NAME SINGLE ZONE MULTIPLE ZONE ou. WELL GAS WELL TY OTHER 2. NAME OF OPERATOR 9. WELL NO. AMOCO PRODUCTION COMPANY
3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT 501 AIRPORT DRIVE, FARHINGTON, MM 37401
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Chora Mess-Pictured Cliffs i. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1140' PSL x 790' FWL Section 22, T-23-N, R-4-W At proposed prod. zone SW/4 SW/4 Sec. 22 T-28-N R-4-W Same
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 13. STATE 3 miles SE of Cohernador
15. DISTANCE FROM PROPOSED* 17. NO. OF ACRES ASSIGNED 16, NO. OF ACRES IN LEASE LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) TO THIS WELL 790' 640 160 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1875' 44251 Rotary
22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7282' ast. GL As room as well permitted PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 8-5/8 フム多 100 12-1/4" 250 ax 7-7/8" 10.54 44251 4-1/2 1275 ex The above well is being drilled to further develop the Choza Ness-Pictured Cliffs Field. The well will be drilled with a low solids non-dispersed and system. pletion design will be based on open hole logs. This acreage is not dedicated. Additional information required by MTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

DEC 2 7 1977 OIL CON. COM. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive point 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 preventer program, if any. 24. TITLE Area Engineer DATE __ 12/19/77 SIGNED √tor Federal or State office use) PERMIT NO. . APPROVAL DATE APPROVED BY CONDITIONS OF APPROVAL, IF ANY: DEC 2 1 1977

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

Instructions

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 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 be obtained from, the local Federal and/or State office.

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, showing 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. 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 tem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local 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 applicable State or Federal regulations concerning subsequent work proposals or reports on the well. State or Federal office for specific instructions.

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

Operator			Lease		Well No.
Amoco Production Company			Valencia Ca	nyon Unit	27
Unit Letter	Section	Township	Fange	County	
M	22	28N	ΤM	Rio Arriba	
Actual Footage Loc	·	South line and	790	Word	
Ground Level Elev.	feet from the Producing Form		Pool	feet from the West	
7282	Pictured		•	Pictured Cliffs	160 Acres
2. If more th	an one lease is			cil or hachure marks of	· · · · · · · · · · · · · · · · · · ·
3. If more tha		fferent ownership is nitization, force-pool		ell, have the interest	s of all owners been consoli-
	is "no;" list the c	swer is "yes," type			olidated. (Use reverse side of
this form it No allowat	f necessary.) ble will be assigne	d to the well until a	ll interests have be	en consolidated (by	communitization, unitization, been approved by the Commis-
				Name J. Positic AR Compa	EÂ ENGINEER
790 οητι (a)		22 22	V ou C	271977 ON. COM. brist. 3 Date St. Dec. Registre and/or. Free	reby certify that the well location on this plat was plotted from field so of actual surveys made by me or my supervision, and that the same rue and correct to the best of my ledge and belief. urveyed the professional Engineer from Surveyed from Surveye
0 330 660	90 1320 1650 1980	2310 2640 200	0 1500 1000		cate No.

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

VALENCIA CANYON UNIT NO. 27 1140' FSL & 790' FWL, SECTION 22, 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	4112'	+3180'
Lewis Shale	4312'	+2980'
TD	4425'	

Estimated KB Elevation: 7292'

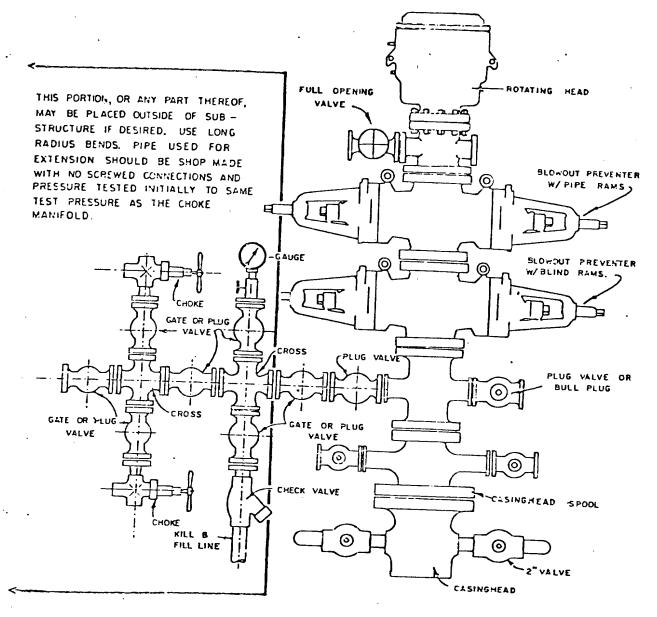
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300'	8-5/8"	24#	12-1/4"	250 sx - Class "B", 2% CaCl 2. 1175 sx - Class "B", 6% Gel, 2# Med. Tuf Plug/sx. 100 sx - Class "B" Neat.
4425'	4-1/2"	10.5#	7-7/8"	

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 2425', 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.



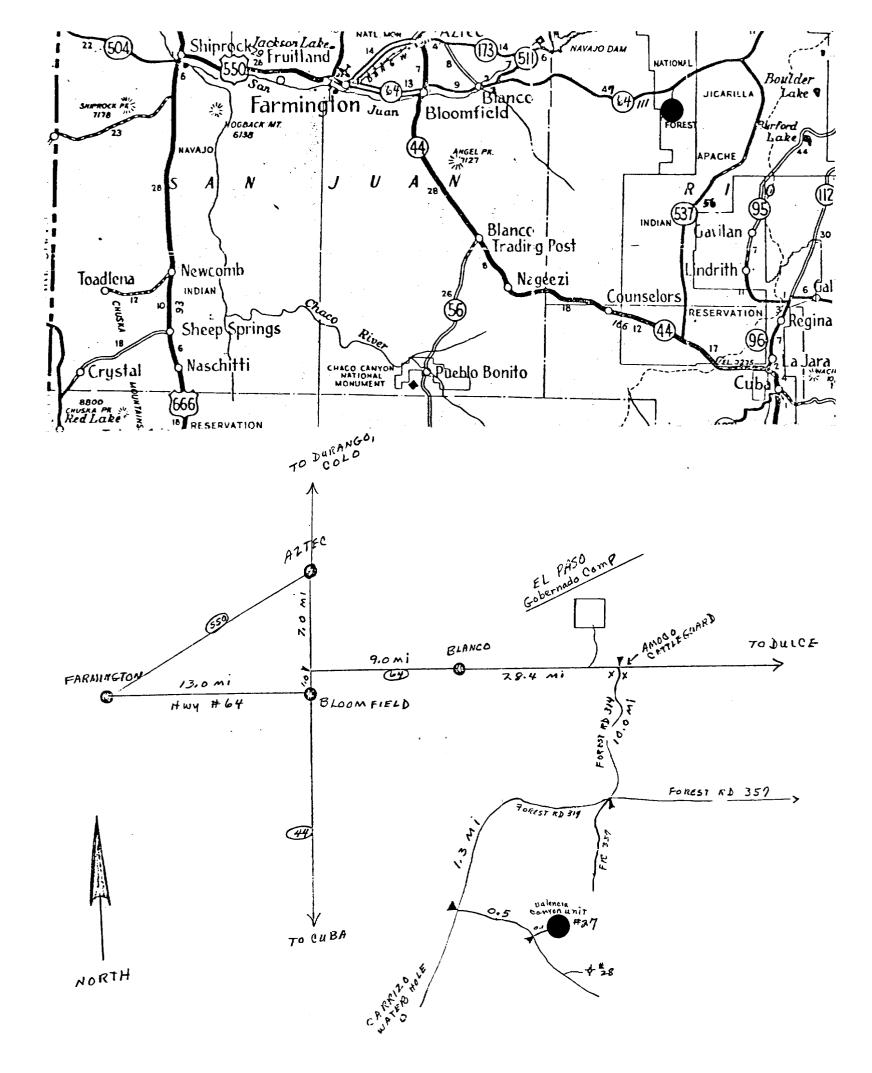
BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969

MULTI-POINT SURFACE USE PLAN

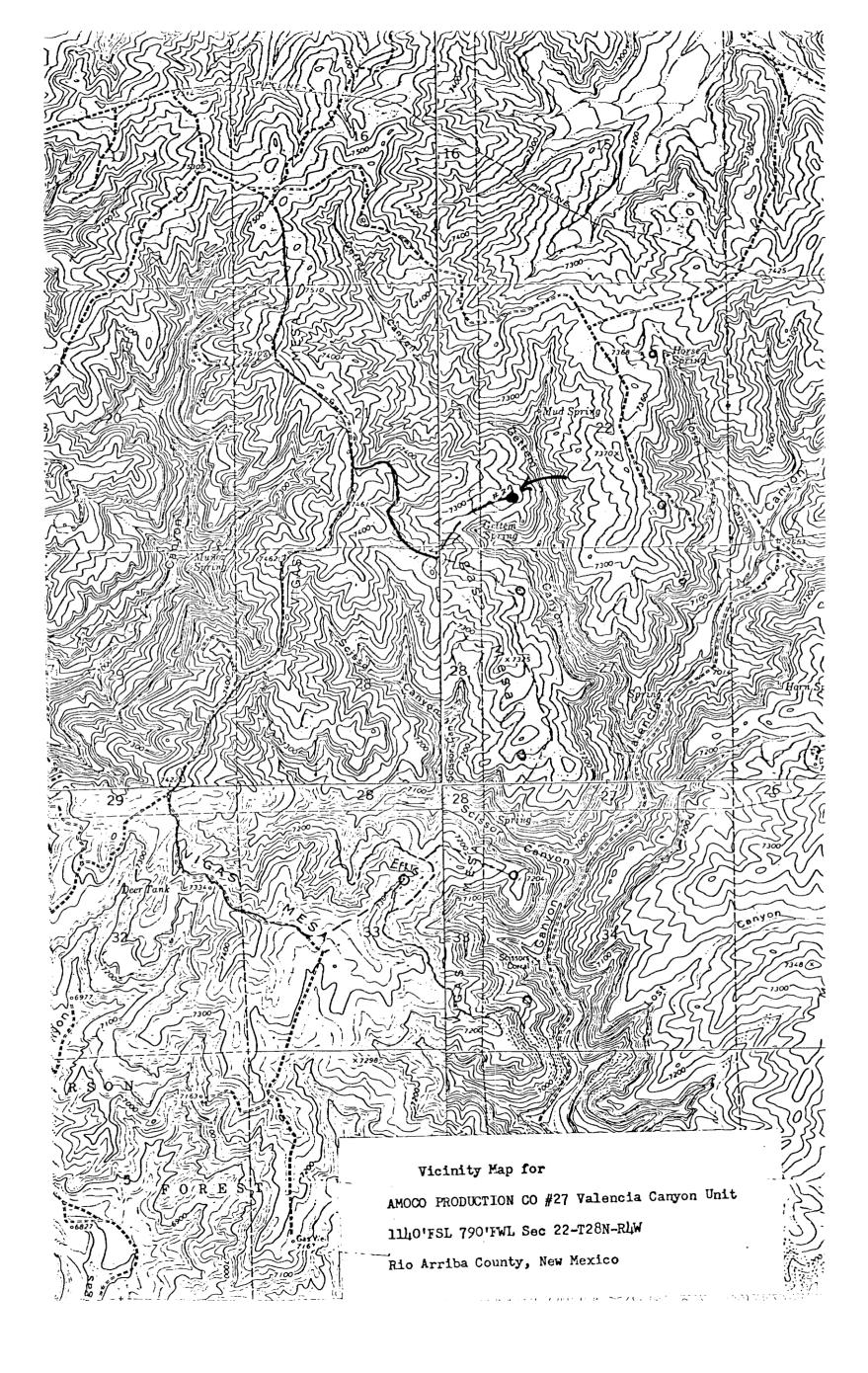
VALENCIA CANYON UNIT NO. 27 1140' FSL & 790' FWL, SECTION 22, T-28-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

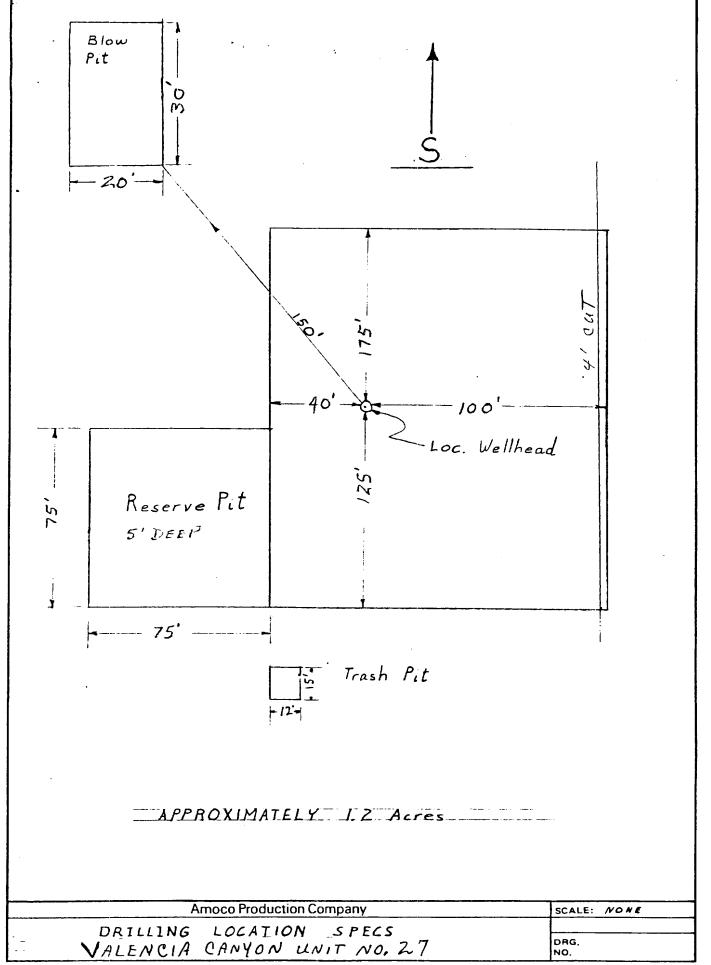
- 1. The attached road map and sketch show the proposed route to the location and distances from towns.
- 2. A new access road six tenths of a mile in length will be built as indicated on the attached vicinity map.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- 4. There is a 300-barrel storage tank and facilities located at Valencia Canyon Unit No. 3 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 new construction materials will be hauled in for building 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 four feet will be made on the west 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 sandy-clay soil with various grasses and occasional pine and 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 inspected by Ms. Suzanne DeHoff, Archaeologist.
- 12. A Certification Statement by Amoco's representative is included.



FARMINGTON AREA TRAFFIC SKETCH DENVER DIVISION VALENCIA CANYON UNIT NO. 27 RIO ARRIBA COUNTY, NEW MEXICO AMOCO WI: 100%

Rail Point, Aztec - 56.3 miles
Mud Point, Aztec - 56.3 miles
Cement Point, Farmington - 63.3 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. 27 1140' FSL x 790' FWL, SECTION 22, 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
statements made in this plan are, to be best of my lateral age,
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 con-

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