SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425. 5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES	
DEPARTMENT OF THE IN	TERIOR

A DDI ICATION		OGICAL SURV		N OD DILIC I		6. UF INDIAN, ALLOTTEE OR TRIBE NAME
APPLICATION B. TYPE OF WORK	I FOR PERMIT	IO DRILL,	DEEPE	IN, OR PLUG E	BACK	
	LL 😦	DEEPEN		PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME
. TYPE OF WELL OIL GA	ıs 🖂		SI	NGLE MULTIP	PLE [8 Valencia Cenyon Unit
	ELL OTHER		Z 0	NE ZONE		O. Paka Or DEASE NAME
AMOCO PRODU	CTION COMPANY					9. WELL NO.
ADDRESS OF OPERATOR						10. FIELD AND FOOL, OR WILDCAT
501 AIRPORT	DRIVE FARMIN	CTON NM d in accordance w	7401 nh any s	tate requirements.*)		10. FIELD AND POOL, OR WILDCAT
At surface						1Figs. Mega-Pictured Cl
At proposed prod. zone	FNL x 1670' FE	L, Section	23,	1-25-N, K-4-W		SW/4 NE/4 Sec. 23
Same	ND DIRECTION FROM NEA	PROFESSION OF THE	am ammia			12. COUNTY OR PARISH 13. STATE
		REST TOWN OR PO	ST OFFICE	,-		12. COUNTY OR PARISH 13. STATE
DISTANCE FROM PROPO	of Cobernador		16. NO	. OF ACRES IN LEASE	17. No. (DE RES ASSEMBE NM
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drlg	INE, FT.	1630'		640	10 1	HIS WELL
DISTANCE FROM PROPO TO NEAREST WELL, DE	OSED LOCATION* RILLING, COMPLETED,		19. PR	OPOSED DEITH	20. кота	RY OR CABLE TOOLS
OR APPLIED FOR, ON THI	s LEASE, FT. ther DF, RT, GR, etc.)	2600'	1	4285	1	22. APPROX. DATE WORK WILL START*
7174' est.						
/1/4 586.		PROPOSED CAS	ING AND	CEMENTING PROGR	AM	As soon as well permit
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	FOOT	SETTING DEPTH	1	QUANTITY OF CEMENT
12 1/49	0 € / Q !:					
Field. The	well will be	drilled wi	th a 1	ow solids non-	dispen	250 sx 1200 sx Mess-Pictured Cliffs Bed mud system. Com-
The above w Field. The pletion des Additional	4-1/2" ell is being d well will be ign will be be	rilled to drilled wi sed on oper quired by	th a 1 n hole NTL-6	er develop the low solids non-	dispendereage	1200 sx Mesa-Pictured Cliffs
The above we Field. The pletion des Additional Point Surfa	ell is being de well will be ign will be be information rece Use Plan ar	rilled to drilled wined on oper quired by a attached	th a land hole NTL-6	4285. er develop the low solids non- a logs. This a for the application of the applicatio	JAII OIL CO	Mesa-Pictured Cliffs sed mud system. Com- is not dedicated. to drill and a Multi-
The above we Field. The pletion des Additional Point Surfa ABOVE SPACE DESCRIBE e. If proposal is to eventer program, if any signed	ell is being de well will be ign will be be information rece Use Plan ar	rilled to drilled wined on oper quired by a attached	th a land hole NTL-6	4285. er develop the low solids non- a logs. This a for the application of the applicatio	JAII OIL CO	Mesa-Pictured Cliffs ed mud system. Com- is not dedicated. to drill and a Multi-
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The above we field. The pletion des Additional Point Surfa ABOVE SPACE DESCRIBE (e. If proposal is to eventer program, if any signed	ell is being de well will be ign will be be information rece Use Plan ar	rilled to drilled wised on open quired by a attached proposal is to de ally, give pertine	th a land hole NTL-6	4285* er develop the low solids non- a logs. This a for the application of the applicatio	JAII OIL CO	Mesa-Pictured Cliffs ed mud system. Com- is not dedicated. to drill and a Multi-

*See Instructions On Reverse Side

IN C. SEPTEMBER CURVEY

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 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 applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

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 State or Federal office for specific Instructions. 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, glowing 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.

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

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator			Lea	se		· · · · · · · · · · · · · · · · · · ·	Well No.
Amoco Production Company			Valencia Canyon Unit				22
Unit Letter	Sec ion	Township		Range	County		
G	23	28N		ΤM	Rio	Arriba	
Actual Footage Loca 1630	feet from the No	rth line and			t from the		line
Ground Level Elev. 7174	Producing Form		Poo Ch	ı oza Mesa Pictu	ıred Cl	iffs	icated Acceage:
							160 Acres
	 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and revalty). 						
		fferent ownership is c nitization, force-pooling			have the	interests of all	owners been consoli-
Yes	No If an	swer is "yes," type o	fco	nsolidation			
	s "no;" list the c	owners and tract descr	ripti	ons which have ac	tually be	en consolidated	. (Use reverse side of
No allowab	le will be assigne	d to the well until all or until a non-standard					
			T			CE	RTIFICATION
	 		1630'	 		tained herein i	y that the information con- s true and complete to the wledge and belief.
	·		-			Name L. KRI	JPKA
	1		0	1670' 		Position AREA ENG	INEER
	l i					Company AMOCO PRO	DDUCTION COMPANY
	1			1	1	Date DECEMBER	9, 1977
	 					shown on this p notes of actua under my super	fy that the well location plat was plotted from field I surveys made by me or vision, and that the same priect to the best of my belief.
	 	And the same of th	10 to	1973 2 30 M.		Date Surveyed December Registered Profe and/or Land Surv Fred B. K Certificate No.	ssional Engineer
0 330 660 9	0 320 1650 1980	2310 2640 2000		1500 1000 50		3950	Species 57.5%

SUPPLEMENTAL INFORMATION TO FORM 9-331C REQUIRED BY NTL-6 VALENCIA CANYON UNIT NO. 22

1630' FNL & 1670' FEL, SECTION 23, 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	3984'	+3200'
Lewis Shale	4184'	+3000'
TD	4285'	

Estimated KB Elevation: 7184*

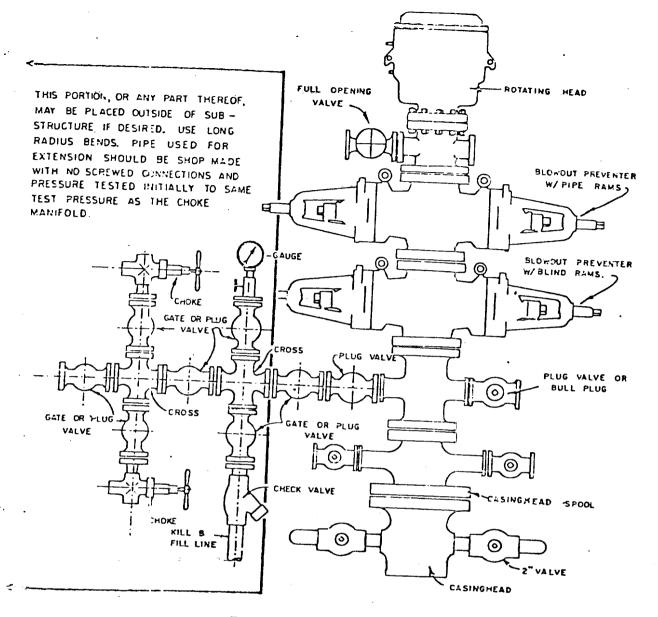
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300'	8-5/8"	24#	12-1/4"	250 sx - Class "B", 2% CaCl ₂ . 1100 sx - Class "B", 6% Gel, 2# Med. Tuf Plug/sx. 100 sx - Class "B" Neat.
42:85'	4-1/2"	10.5#	7-7/8"	

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 2285', 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

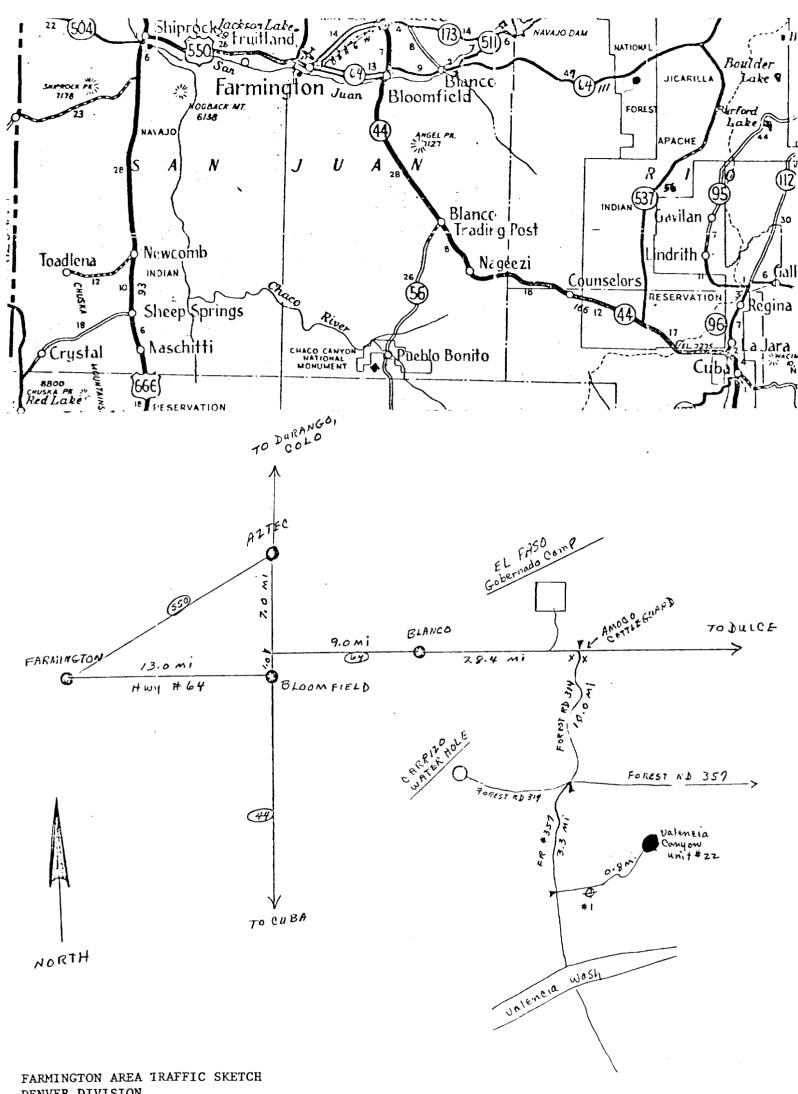
MULTI-POINT SURFACE USE PLAN

VALENCIA CANYON UNIT NO. 22 1630' FNL & 1670' FEL, SECTION 23, 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 20-foot wide access road 2700 feet long following along a fence line and approaching location from the southwest to be built; a cattleguard, a 12-inch culvert and two 24-inch culverts will be installed.
- 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 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 4 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 broken arroyo bottom and slope with east-southeasterly drainage and alluvial deposition with the soil a sandy clay loam. Vegetation consists of juniper, pinon, ponderosa pine, blue grama, sagebrush, Gambel's oak, loco weed, aster, and snakeweed.

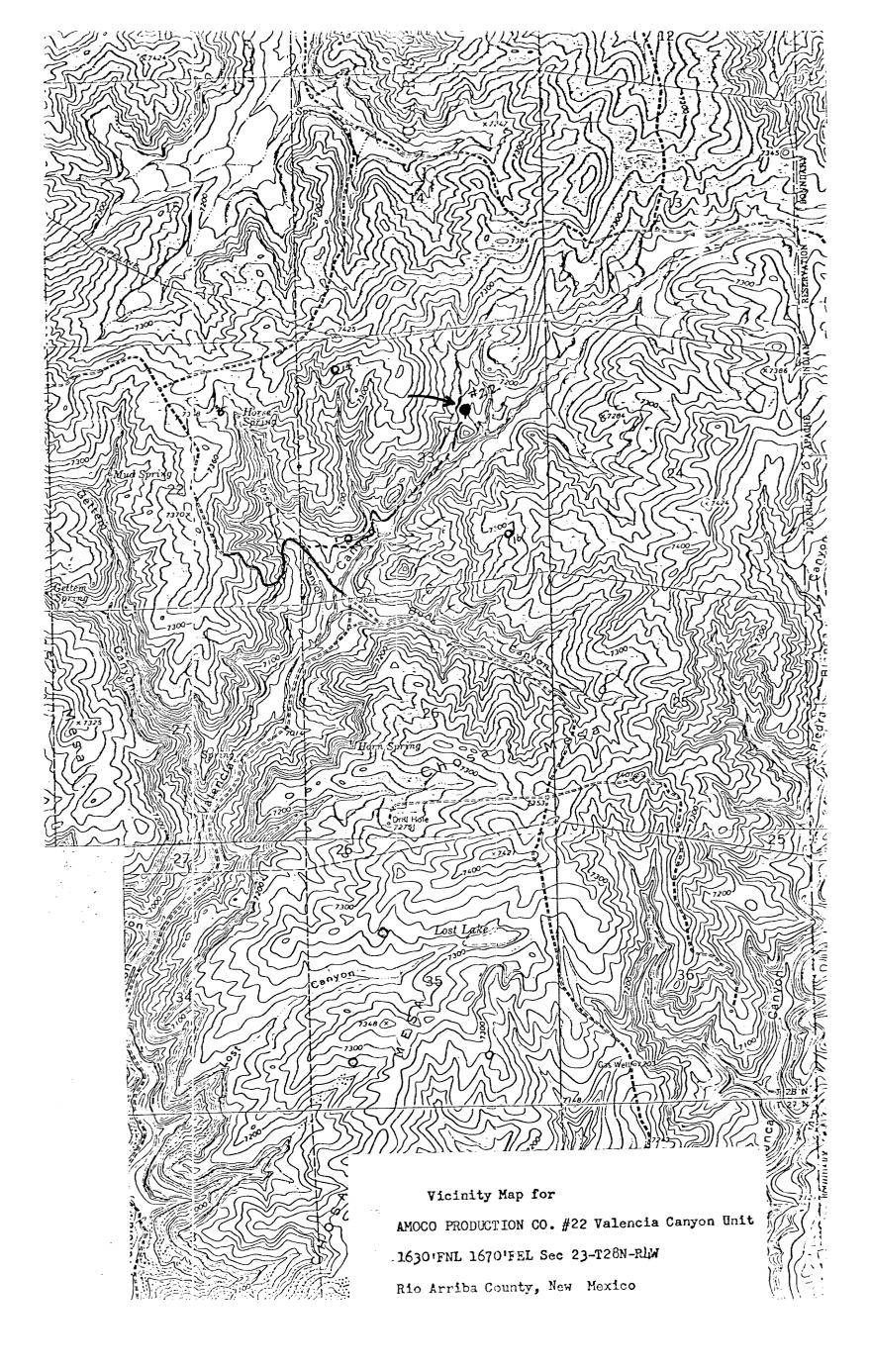
Representatives of the U. S. Geological Survey and U. S. Forest Service have inspected the site and found it suitable for drilling. No cultural resources were found when inspected by Ms. Dabney Ford, Archaeologist.

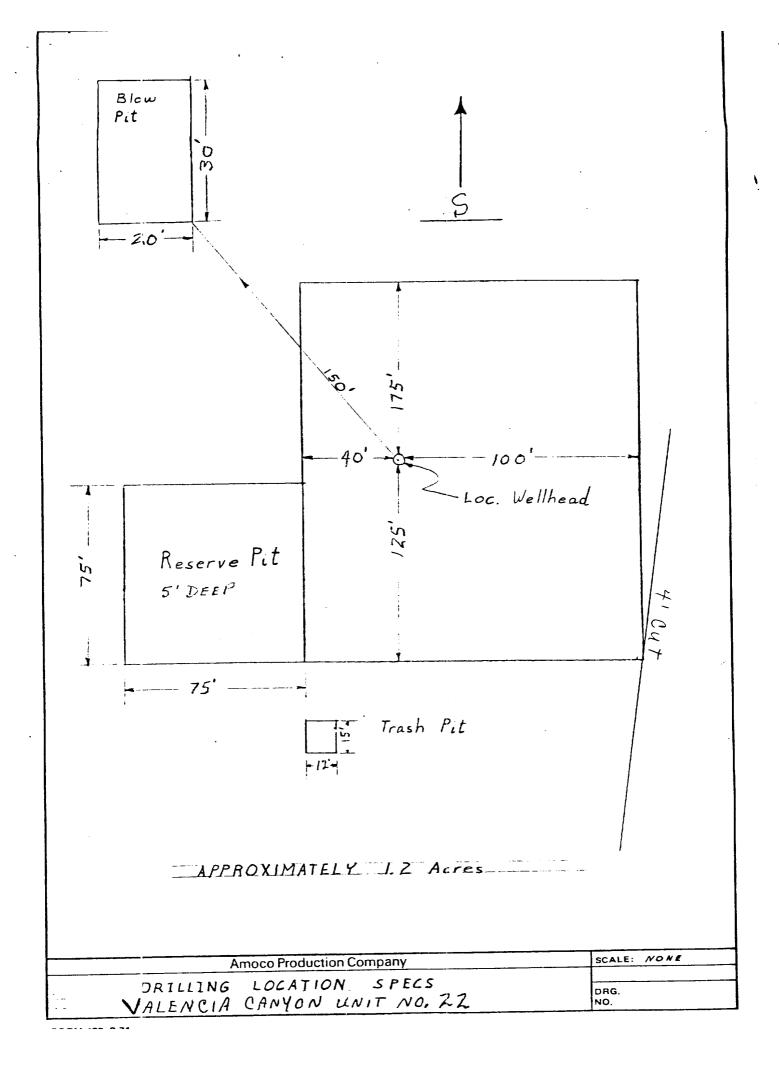
12. A Certification Statement by Amoco's representative is included.



FARMINGTON AREA TRAFFIC SKETCH DENVER DIVISION VALENCIA CANYON UNIT NO. 22 RIO ARRIBA COUNTY, NEW MEXICO AMOCO WI: 100%

Rail Point, Aztec - 58.5 miles
Mud Point, Aztec - 58.5 miles
Cement Point, Farmington - 65.5 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 te covered to the depth described above by whatever means is practical.

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

0.71 lbs.
0.86 lbs.
0.57 lbs.
1.43 lbs.
1.14 lbs.
0.91 lbs.
1.09 lbs.
.298 lbs.

VALENCIA CANYON UNIT NO. 22 1630' FNL x 1670' FEL, SECTION 23, 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 <u>AMOCO PRODUCTION</u>

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				

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