SUBMIT IN TRIPLICATE*

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side) **UNITED STATES** 30-039-2/593 DEPARTMENT OF THE INTERIOR

		CEOL	OCICAL SUB	VEV				5. DEASE DESIGNATIO	N AND SERIAL NO.	
			OGICAL SUR	_				NM 14915		
APPLICATION	1 FOR	PERMIT	TO DRILL,	DEEPEN,	OR F	PLUG	BACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME	
TYPE OF WORK			DEEPEN		DI	LIC P	ACK 🗆	7. UNIT AGREEMENT	NAME	
TYPE OF WELL	LL x		DEEPEN		PL.	.UG BA				
IL GAS		SINGLE ZONE	SINGLE MULTIPLE ZONE ZONE		CIPLE	8. FARM OR LEASE NAME				
VELL WAME OF OPERATOR	ELL CAL	OTHER				20112		-		
AMOCO PRODU	CTTON	COMPANY						9. WELL NO.	· · · · · · · · · · · · · · · · · · ·	
DDRESS OF OPERATOR	V VII	VV.44.1						25		
501 AIRPORT	DRIVE	. FARMI	NGTON. NM	87401				10. FIELD AND POOL,	OR WILDCAT ON	
ocation of WELL (Rate surface	eport locat	ion clearly a	nd in accordance v	with any State	requirem	ents.*)		Choza Mesa-P		
	PSL x 1	665' FW	L, Section	15, T-28	-N, R	-4-W		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
t proposed prod. zon	e							SE/4 SW/4 Se	c. 15	
Same	-							T-28-N, R-4- 12. COUNTY OR PARIS	W	
DISTANCE IN MILES	AND DIRECT	TION FROM NE	CAREST TOWN OR PO	OST OFFICE-				12. COUNTY OR PARIS	H 13. STATE	
8 miles SE DISTANCE FROM PROPO	of Got	ernador		16. NO. OF	ACDES D	J TEASE	1 17 NO	OF ACRES ASSIGNED	NM	
LOCATION TO NEAREST PROPERTY OR LEASE I.			•	10. 40. 01		LEASE		THIS WELL		
(Also to nearest drig	, unit line		860'	19. PROPOS	640		- UO DOT	160		
DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, CO	MPLETED,	2001		_	ı	20. ROT.	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON THE			2600'	1 4	400'			Rotary 22. APPROX. DATE WORK WILL S:		
		11 , G16 , Ecc.)								
7281' est (باد		DRODORED CAS	YNC AND GE	TAC TO STORY N	C DROC	D 434	AS SOOR AS	well permitt	
			PROPOSED CAS	SING AND CE	MENTIN	G PROG	KAM			
SIZE OF HOLE	SIZE	OF CASING	WEIGHT PER	FOOT	SETTING	DEPTH		QUANTITY OF CEMENT		
12-1/4"		5-5/8"	24#		30	01		250 sx		
7-7/8"	4	-1/2"	10.5#		440	0'		1240 sx		
Field. The letion des	e well Ign wil inform	will be I be ba	drilled wi sed on open equired by	ith a low a hole lo NTL-6 fe	soli gs. '	ds nor	n-disper acreage ication	Nesa-Pictured rsed mud syste is not dedica to drill and	m. Comp- ted.	
				OIL	CON. DIST	. COM	.)			
	drill or de							ductive zone and propored and true vertical dep		

 $\overline{24}$. SIGNED Area Engineer 12/19/77 (This space for Federal or State office use) PERMIT NO. DEC 2 1 1977 APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

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 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, showa 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 -Kem 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. ★ U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239 applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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.

State or Federal office for specific instructions.

Instructions

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

Operator			Lease	Well No.	
	ction Company		Valencia Canyon	25	
Unit Letter	Section	Township	Range		
N Actual Fostage Loc	ation of Well:	28N	ЙM	Rio Arriba	
860	•	outh line and	1665 feet	from the West	line
Ground Level Elev.	Producing For		Pool		cated Acceage:
7281	Pictured	Cliffs	Choza Mesa Pic	tured Cliffs	160 Acres
1. Outline th	e acreage dedica	ted to the subject w	ell by colored pencil or	hachure marks on the pla	it 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).					
		ifferent ownership is nitization, force-pool		have the interests of all o	owners been consoli-
Yes	No If ar	nswer is "yes," type o	of consolidation		
		owners and tract desc	criptions which have ac	tually been consolidated.	(Use reverse side of
	f necessary.)	1111 .21 1	1	11.1.1/1	
				onsolidated (by communith h interests, has been appr	
sion.		· · · · · · · · · · · · · · · · · · ·			
	I I		1	CEF	RTIFICATION
			 	I hereby certify	that the information con-
	1		1	i I	true and complete to the
	i			Best of my know	redge and belief.
	· +			Name	
	İ			J. L. KRU Position	PKA
	1		<u> </u>	AREA ENGI	NEER
	į				DUCTION COMPANY
			1	Date DECEMBER	9, 1977
		Sec 15			
	i		/rei'HVC	I hereby certif	y that the well location
. 8	ļ			1	lat was plotted from field
	1		DEC 2 7 19	77 notes of actual	surveys made by me or vision, and that the same
	i				rrect to the best of my
	i	1	OIL CON. CO	knowledge and I	•
 	+		$ \frac{\text{pist. 3}}{\text{1}}$	-/	
- 445	1				
16651	 •			Date Surveyed	1 11 5
				December Registered Protes	
	i 5	Į.	1	and/or Land Surve	
	860			Tied	*Tren
<u> </u>	<u></u>	<u> </u>		Fred B. K	err Jr.
0 330 660	90 1320 1650 198	0 2310 2640 2000	1 1	2050	

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

VALENCIA CANYON UNIT NO. 25

860' FSL & 1665' FWL, SECTION 15, 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	4111'	+3180'
Lewis Shale	4311'	+2980'
TD	4400'	

Estimated KB Elevation: 7291'

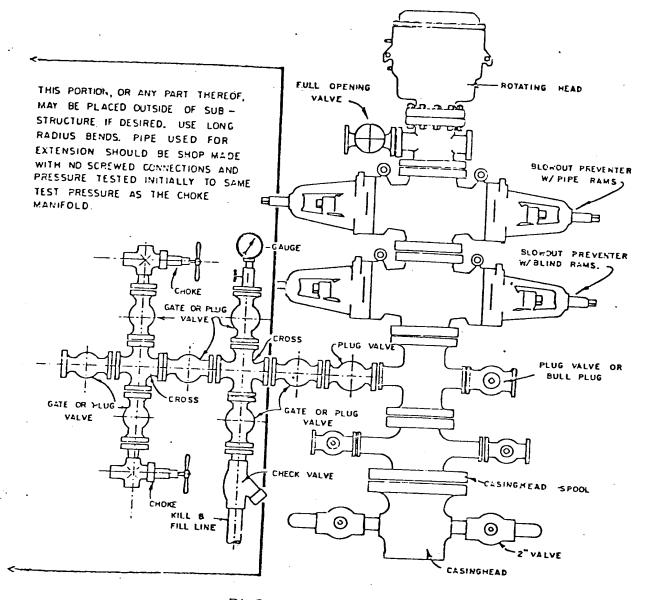
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300'	8-5/8"	24#	12-1/4"	250 sx - Class "B", 2% CaCl ₂ . 1140 sx - Class "B", 6% Gel, 2# Med. Tuf Plug/sx. 100 sx - Class "B" Neat.
4400'	4-1/2"	10.5#	7-7/8"	

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

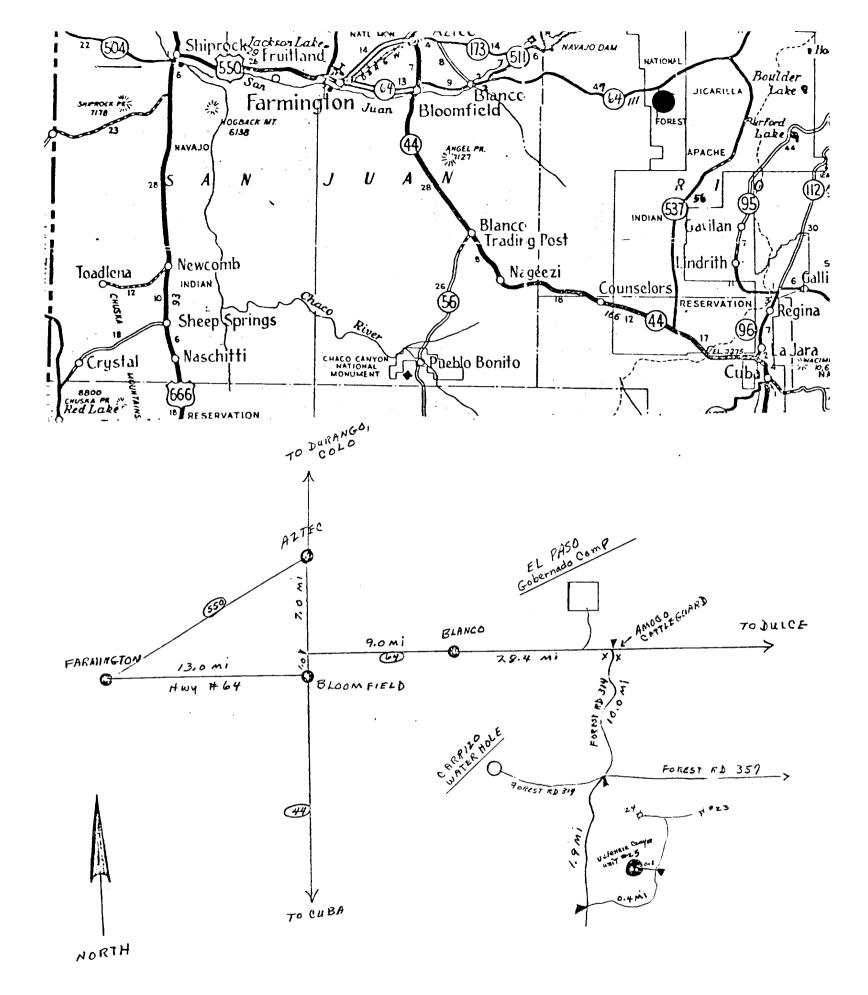
MULTI-POINT SURFACE USE PLAN

VALENCIA CANYON UNIT NO. 25 860' FSL & 1665' FWL, SECTION 15, 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.
- A new access road of one-tenth mile will be built as shown on the vicinity map. This will connect to an existing road which will be improved.
- 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 used to construct 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 10 feet will be necessary on the south edge of this 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 vegation composed of various grasses with occasional pinon and pine trees.

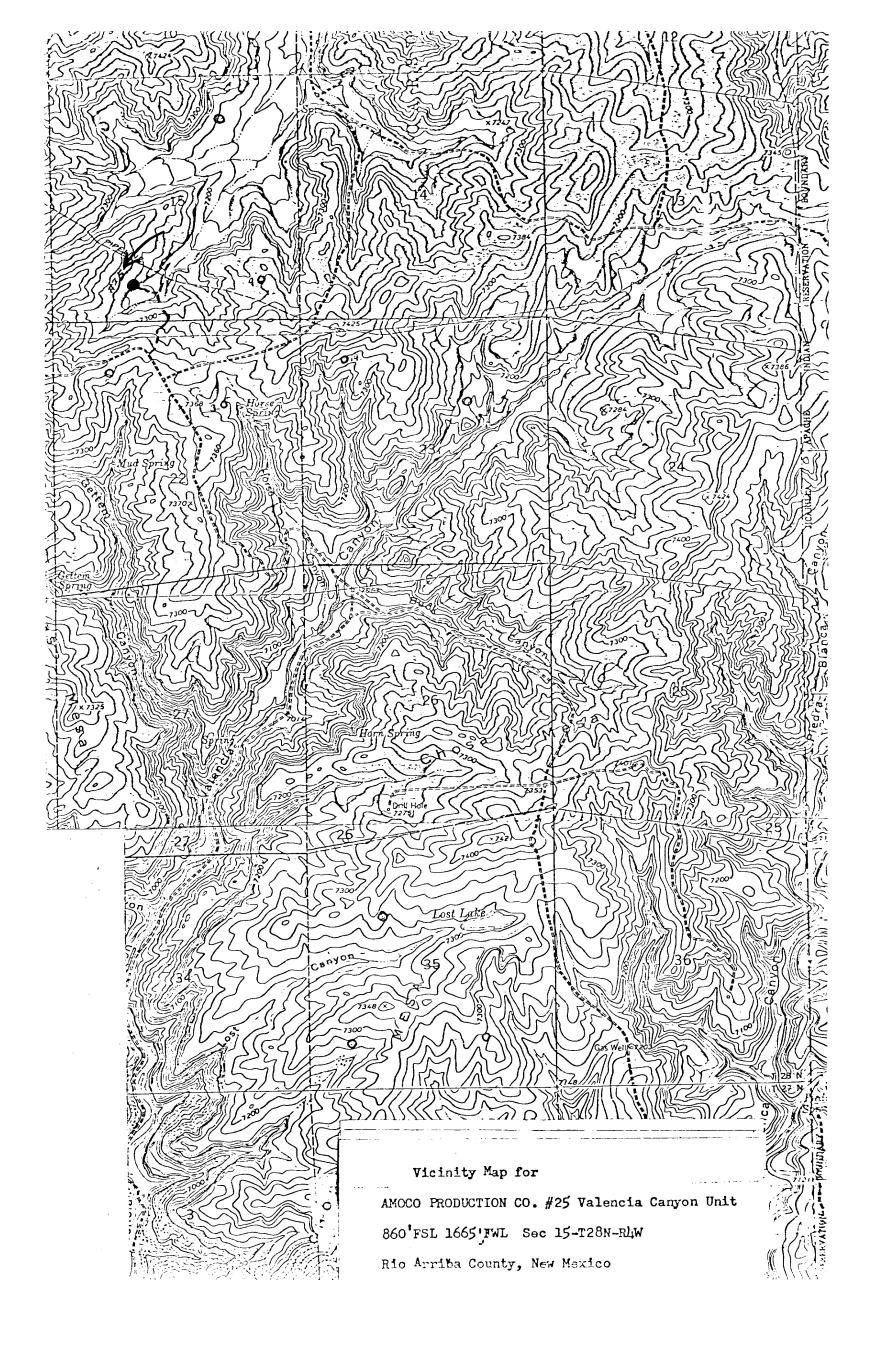
Representatives of the U. S. Geological Survey and U. S. Forest Service have inspected the site and found it suitable for drilling. No cultural resources were found when inspected by Ms. Suzanne DeHoff, Archaeologist.

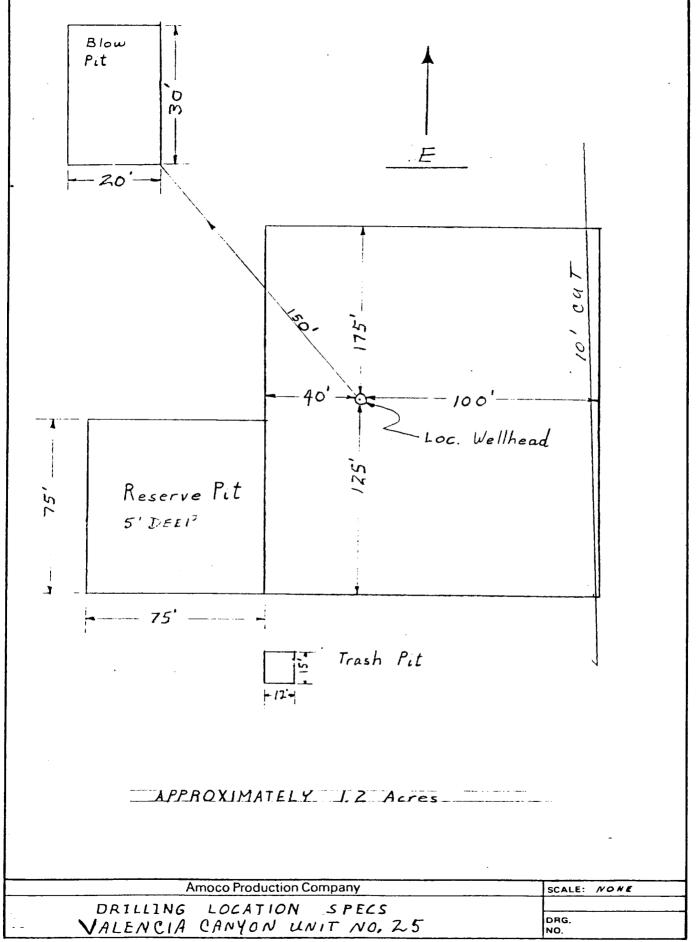
12. A Certification Statement by Amoco's representative is included.



FARMINGTON AREA TRAFFIC SKETCH DENVER DIVISION VALENCIA CANYON UNIT NO. 25 RIO ARRIBA COUNTY, NEW MEXICO AMOCO WI: 100%

Rail Point, Aztec - 56.8 miles
Mud Point, Aztec - 56.8 miles
Cement Point, Farmington - 63.8 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. 25 860' FSL x 1665' FWL, SECTION 15, 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 byAMOCO PRODUCTION
COMPANY and its contractors and sub-contractors in con-
formity 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