## SUBMIT IN TRIPLICATE\*

Form approved

(Other instructions on reverse side)

B	udget Burea	u No. 4	2-R142	5.
	035-			7

UNIT	ED S	STATI	ES
DEPARTMENT	OF	THE	INTERIOR

	SICAL SURVEY		1	NM 14916	
FOR PERMIT T	O DRILL, DEEF	PEN, OR PLUG BA	ACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
L 🗷	DEEPEN 🗌	PLUG BAC	к 🗆	7. UNIT AGREEMENT N.	
LL OTHER			E	8. FARM OR LEASE NAM	ve vari
an tour count is the			-	9. WELL NO.	
CTION COMPANI				13	
DRIVE FARMING	TON, NEW MEXI	CO 87401		10. FIELD AND POOL, O	
			-	11. SEC., T., R., M., OR I	BLK.
r & Tobo kuri	Jection 22, 1-	LOW, XIV		SW/4 SE/4	
D DIDECTION BROW NEED	DOM TOWN OF DOST ARRI	CD\$		T-28-N, R-4-	
	_	( <b>L</b> ·			
SE of Goberna	16. 1	NO. OF ACRES IN LEASE		ACRES ASSIGNED	New Mexico
(E, FT. unit line, if any)	790'	640	10 11	160 /	
SED LOCATION*	19. 1		20. ROTAR	Y OR CABLE TOOLS	
LEASE, FT.	2150'	4425'		Rotary	DE WILL OF LORS
	ROPOSED CASING AN	VD CEMENTING PROGRA	м	1 15 3001 35	permetered
SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMES	٧T
0_5/911	245	3001		225 sx	
4-1/2"	9.5#	1		1040 sx	
all is being d		1	Choza l	Mesa Pictured	
d. The well w	rilled to furt ill be drilled esign will be	her develop the with a low soli based on open hopment Plan requi	ds non- le log	-dispersed  This acres NTL-6.	
d. The well w Completion d .cated. Attach	rilled to furt ill be drilled esign will be ed is a Develo	her develop the with a low soli based on open hopment Plan requi	ds non- ole log- red by	His acres	3 1977 3 1977 11. COM. 11. 3
d. The well w Completion d cated. Attach	rilled to furt ill be drilled esign will be ed is a Develo	her develop the with a low soli based on open hopment Plan requi	ds non- ple logs red by	MTL-6.	1977 
d. The well w Completion d cated. Attach	rilled to furt ill be drilled esign will be ed is a Develo	her develop the with a low soli based on open hopment Plan requi	ds non- ple logs red by	MTL-6.	1977 
d. The well w Completion d cated. Attach  PROPOSED PROGRAM: If y rill or deepen directiona	rilled to furt ill be drilled esign will be ed is a Develo	her develop the with a low soli based on open hopment Plan requirement Pla	ds non- ple logs red by	This acres NTL-6.  SUL 20 OIL OIL  Control of the c	1977 
	DRIVE, FARMING OTHER PARMING OTT location clearly and L. & 1850 FEL., S. D. DIRECTION FROM NEAR SE of Goberna (ED* Unit line, if any) unit line, if any) unit line, completed, lease, ft. her DF, RT, GR, etc.)	DRIVE FARMINGTON, NEW MEXTOT location clearly and in accordance with any L & 1850 FEL, Section 22, T-  D DIRECTION FROM NEAREST TOWN OR FOST OFFI  SE of Gobernador  ED*  NE, FT.  Unit line, if any)  SED LOCATION*  LILING, COMPLETED,  LEASE, FT.  PROPOSED CASING AN  SIZE OF CASING  WEIGHT PER FOOT  8-5/8"  24#	SINGLE ZONE EX ZONE  CTION COMPANY  DRIVE, FARMINCTON, NEW MEXICO 87401  Fort location clearly and in accordance with any State requirements.*)  L & 1850 FEL, Section 22, T-28-N, R-4-W  D DIRECTION FROM NEAREST TOWN OR FOST OFFICE*  SE of Gobernador  ED*  NE, FT.  Unit line, if any)  SED LOCATION*  LLING, COMPLETED,  LEASE, FT.  LEASE, FT.  PROPOSED CASING AND CEMENTING PROGRA  SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH  8-5/8"  24#  300  **  **  **  **  **  **  **  **  *	CTION COMPANY  DRIVE FARMINGTON, NEW MEXICO 87401  Fort location clearly and in accordance with any State requirements.*)  L & 1850 FEL, Section 22, T-28-N, R-4-W  D DIRECTION FROM NEAREST TOWN OR FOST OFFICE*  SE of Gobernador  ED*  16. NO. OF ACRES IN LEASE 17. NO. OF TO THE TO THE TOTH 19. PROPOSED DEPTH 20. ROTAR LEASE, FT. 2150 19. PROPOSED DEPTH 4425 19. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH 300 19. PROPOSED DEPTH 300 19. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH 300 19. PROPOSED CASING AND CEMENTING PROGRAM	CTION COMPANY  DRIVE FARMINGTON, NEW MEXICO 87401  OUT location clearly and in accordance with any State requirements.*)  L. & 1850 FEL, Section 22, T-28-N, R-4-W  D DIRECTION FROM NEAREST TOWN OR FOST OFFICE*  SE of Gobernador  ED*  16. NO. OF ACRES IN LEASE  17. NO. OF ACRES ASSIGNED TO THIS WELL  SED LOCATION*  SED LOCATION*  SED LOCATION*  DLING, COMPLETED, LARSE, FT.  LING, COMPLETED, LARSE, FT.  BUT DESCRIPTION OF ACRES IN LEASE  SEC OF CASING AND CEMENTING PROGRAM  SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEME:  8. FARM OR LEASE NAM  STATE BOOK STATE SONE  8. FARM OR LEASE NAM  SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEME:  8. FARM OR LEASE NAM  STATE SONE  8. FARM OR LEASE NAM  SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEME:  8. FARM OR LEASE NAM  STATE SONE  8. FARM OR LEASE NAM  Chock STATE SONE  8. FARM OR LEASE NAM  Chock STATE SONE  8. FARM OR LEASE NAM  CHOCK SONE  10. OF ACRES AND  11. SEC., T., R., M., OR AND SULVEY OR ARES AND SURVEY OR ARES

# 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

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 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

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

State or Federal office for specific instructions.

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, 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.

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

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

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

			<del></del>	<del></del>		10, 11 3
Operator .		<b></b> -		Lease Well No.		
Amoco Proc Unit Letter	luction Compar	ny Township		Valencia Canyon Unit 13		13
O	22	28N		Lw	Rio Arriba	
Actual Footage Loc		2011	·		TITO VILLOG	
790	feet from the	South lir	ne cand	1850 fee	from the <b>Fast</b>	line
Ground Level Elev.	Producing For		Pool			Dedicated Acreage:
7316		ed Cliffs		oza Mesa Pict		160 Acres
2. If more th	-				r hachure marks on t	thereof (both as to working
dated by c Yes  If answer this form i No allowal	ommunitization, on the No If a is "no," list the f necessary.)	nswer is "yes,"  owners and trac	-pooling. e type of con t descriptio	solidationons which have accepted	etually been consolid	lated. (Use reverse side of mmunitization, unitization, n approved by the Commis-
					Name J Position A Company	CERTIFICATION  certify that the information concerein is true and complete to the my knowledge and belief.  L. KRUPKA  REA ENGINEER  PRODUCTION COMPANY
		Sec 22	2		I hereby shown o notes of under my is true knowled	VILY 15, 1977  of certify that the well location in this plat was plotted from field if actual surveys made by me or any supervision, and that the same and correct to the best of my lige and belief.
	1777 Survey		7901	18501	<b>.</b> .	17. 1977 d Professional Engineer and Surveyor B. Kerr Jp.

## VALENCIA CANYON UNIT NO. 13 790 FSL & 1850 FEL, 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 the 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.

S.O. Speng.

JULY 12, 1977

Date

AREA SUPT.

Name and Title



TELECOPEDALONE SURVEY

# DEVELOPMENT PLAN VALENCIA CANYON UNIT NO. 13 790 FSL & 1850 FEL, SECTION 22, T-28-N, R-4-W RIO ARRIBA COUNTY, NEW MEXICO

The proposed location has big sagebrush and various grasses with occasional pinon trees. The geological name of the surface formation is the Paleozoic San Jose. A new road 500' will be required. No construction materials will be used for building the location; dirt will be leveled at the well site. Verbal approval of the drill site has been obtained from Mr. Dick C. Cooke, U. S. Forest Service; Mr. Jerry Long, USGS; and Ms. Dabney Ford, Archaeologist.

Arrangements are being made to haul water from Carrizo Wash or from the El Paso water hole on existing roads, approximately ten miles. Drilling fluid to TD will be a low solids non-dispersed mud system. Upon completion the location will be cleaned up and leveled. Drilling mud and water will be hauled away and the reserve pit backfilled. Attached is the seeding plan to be followed for this well.

There are neither airstrips nor camps in the vicinity.

The estimated tops of important geological formations bearing hydrocarbons are:

FORMATION	DEPTH	ELEVATION	
Pictured Cliffs	4130'	+3185'	
Lewis Shale	4330'	+2985'	

Estimated KB elevation: 7316'

Est. Depth	Csg. Size	Weight	Hole Size	Sacks Cement - Type
300 <b>'</b> 4425'	8-5/8" 4-1/2"	24# 9.5#	12-1/2" 7-7/8"	175 sx - Class "B", 2% CaCl <sub>2</sub> . 990 sx - Class "B", 6% Gel, 2# Med. Tuf Plug/sx. 50 sx - Class "B" Neat.

Amoco's standard blowout prevention will be employed, see attached drawing for blowout preventer design.

Amoco plans to run the following logs: from 300' to TD, Induction-Electric; from 2470' to TD, 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 or hydrocarbon gas will be encountered.

We will start operation as soon as well is permitted, and a two-week operation is anticipated.

1277

SURVEY

## SEEDING PLAN

## 1. TIME:

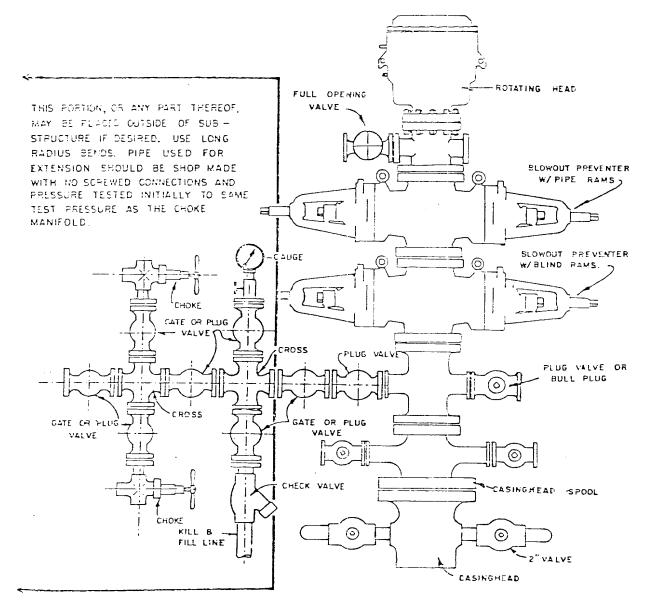
All seeding will take place between July 1, and September 15, 1978, or as required by the U. S. Forest Service.

## 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.

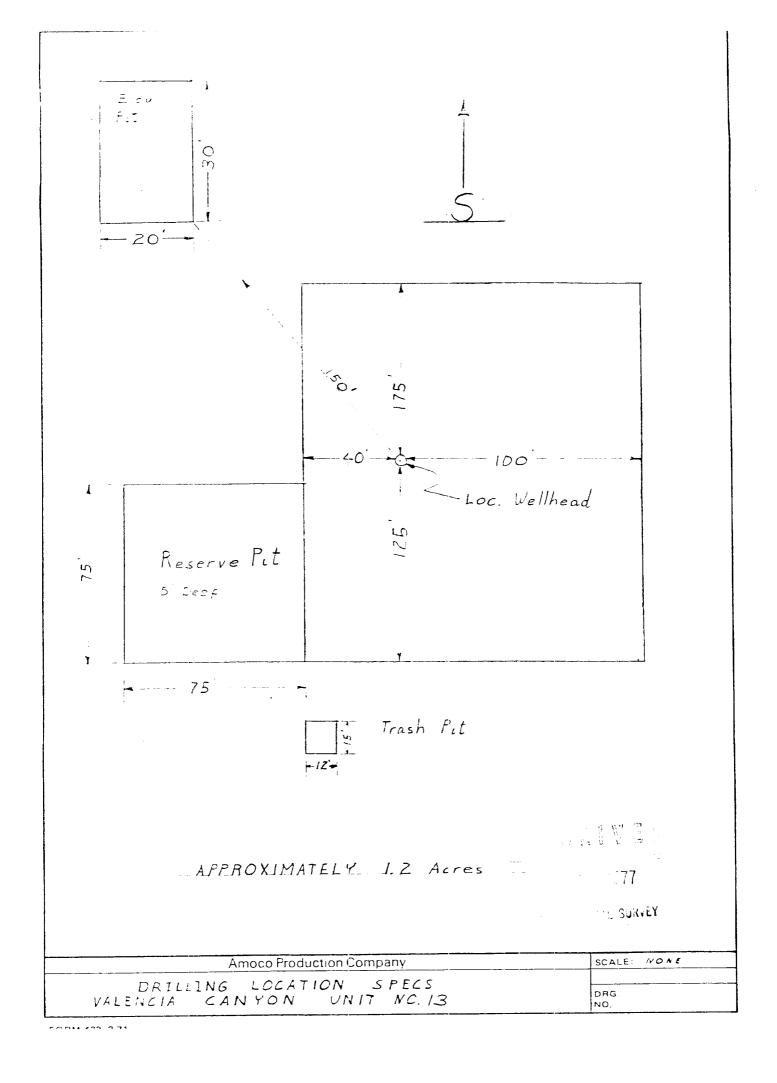


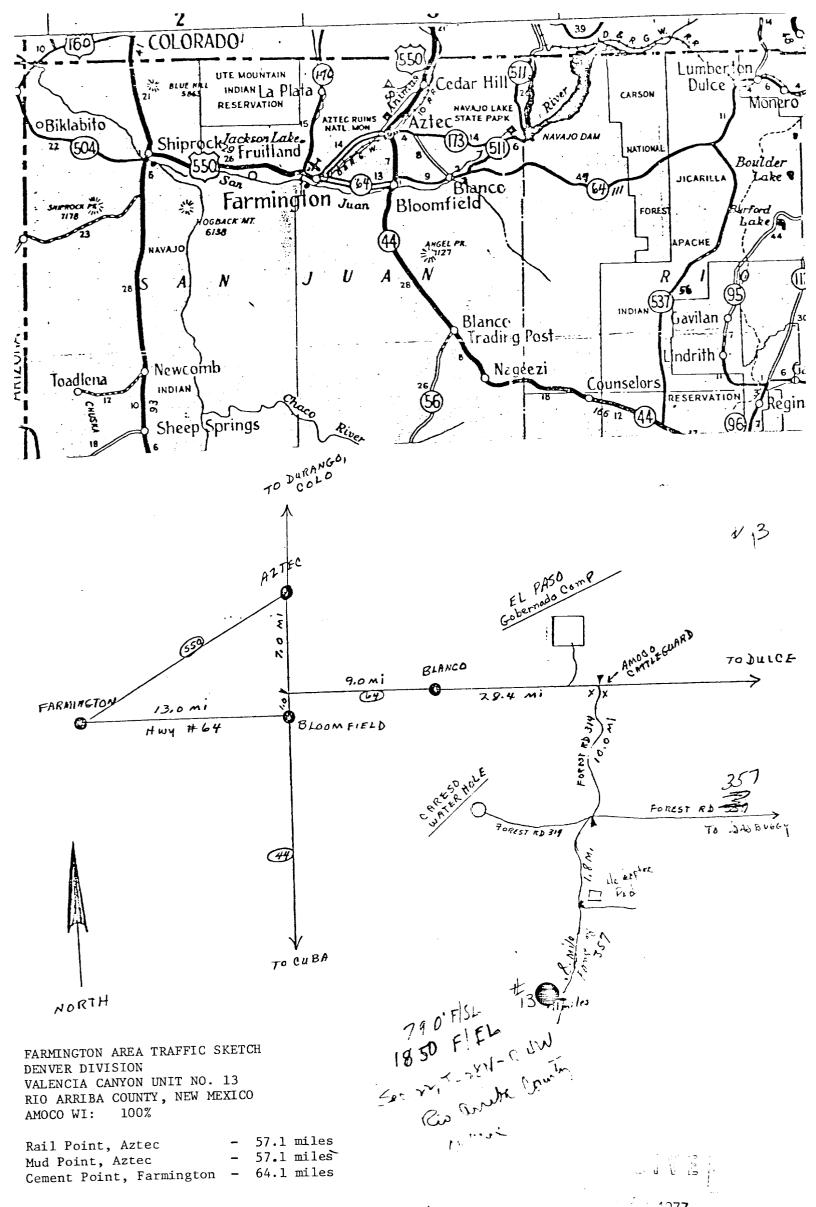
BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1965

1277

SURVEY





1077

MAL SURVEY

