SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

		ED SIAIE		IOD	reverse sic	ie)	30-039-2159
DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.	
	GEOLO	GICAL SURV	'EY				NM 14915
APPLICATION	V FOR PERMIT	O DRILL,	DEEPE	N, OR	PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK	ILL X	DEEPEN		Р	LUG BAC	ж 🗀	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	ILL A	DEEL EI		•			Valencia Canvon Unit
WELL W	AS OTHER		ZO	NE E	MULTIPI ZONE	Æ	8. FARM OR LEASE NAME
. NAME OF OPERATOR	100 Tak (00 May 198						9. WELL NO.
APDICE PRODU	ICTION COMPANY						-
	M ANTHO BADWEN	MANUAL PARK	1015				10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (R	CRIVE, FARMING	in accordance w	ith any S	tate require	ments.*)		ex
At surface		-					Chosa Mesa-Pictured Cli
	FML x 1760' PE	., section	13, (-LO-N,	S-d-M		AND SURVEY OR AREA
At proposed prod. zor	ne						89/4 NE/4 Sec. 15
DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR PO	ST OFFICE	•			12. COUNTY OR PARISH 13. STATE
7 -41 69	and Cale amountains						74 - 1 174
DISTANCE FROM PROP	of Cobernador		16. NO	OF ACRES	IN LEASE		OF ACRES ASSIGNED
LOCATION TO NEARES' PROPERTY OR LEASE I	LINE, FT.	11601		410		TOT	THIS WELL
(Also to nearest dri	g. unit line, if any)	1180'	- 19 PR	640 OPOSED DEPT	TH	20 ROT	ARY OR CABLE TOOLS
TO NEAREST WELL, D	RILLING, COMPLETED,	*****	10	_	•	20. 1.01.	-
OR APPLIED FOR, ON TH		2300'		4300'		<u> </u>	22. APPROX. DATE WORK WILL START*
	ether DF, RT, GR, etc.)						
7190' est.	GL.						As soon as well permitt
3.	1	PROPOSED CAS	ING AND	CEMENTI	NG PROGRA	.М	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	FOOT	SETTIN	G DEPTH		QUANTITY OF CEMENT
12-1/4	8-5/8	249		300)'		250 ex
7-7/8"	4-1/2	10.30		4300	,		1233 **

The above well is being drilled to further develop the Choza Hesa-Pictured Cliffs Field. The well will be drilled with a low solids non-dispersed and system. Completion design will be based on open hole logs. This acreage is not dedicated. Additional information required by WII-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

accidata on presen IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or p productive zone and proposed new productive on pres zone. If proposal is to drill or deepen directionally, give pertinent data on easured and true vertical depths. Give blowout preventer program, if any. $\overline{24}$ SIGNED Area Engineer (This space for Federal or State office use) PERMIT NO. APPROVAL DATE TITLE APPROVED BY _ CONDITIONS OF APPROVAL, IF ANY: DEC 2 1 1977

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

Instructions

.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.

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

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

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. 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 State or Federal office for specific instructions.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

perato:			Lea	se		Well No.
Amoco Production Company				Valencia Cany	on Unit	23
Jnit Letter	Letter Section Township			Range	County	
B	15	28N		14W	Rio Arriba	
Actual Footage Loc	•	orth line and	17	760 fee	t from the East	line
Ground Level Elev.			Poo	1	(11)	Dedicated Arreage:
7190	Picture	ed Cliffs	Ch	oza Mesa Picti	ured Cliffs	160 Acres
1. Outline th	ne acreage dedica	ted to the subject w	ell b	y colored pencil o	r hachure marks on t	he plat below.
	han one lease is nd royalty).	dedicated to the wel	l, ou	tline each and ide	ntify the ownership	thereof (both as to working
3. If more the	an one leasé of d communitization, t	ifferent ownership is unitization, force-pool	dedi ing. e	cated to the well, etc?	have the interests o	of all owners been consoli-
Yes	No If a	nswer is "yes," type o	of co	nsolidation		
If answer	is "no," list the	owners and tract desc	cripti	ions which have ac	ctually been consoli	dated. (Use reverse side of
	if necessary.)			. 1	1:1 . 1 /2	*. * . * . * . * . * . * . * . * . * .
No allowa forced-poo sion.	ble will be assign bling, or otherwise)	ed to the well until al or until a non-standar	l inte rd un	erests have been of it, eliminating suc	consolidated (by consolidated) the consolidated (by	mmunitization, unitization, n approved by the Commis-
	T T					CERTIFICATION
				İ		
İ	i		5	1	a t	certify that the information con-
	! !		1180	1	■ 1	my knowledge and belief.
	Ì			1	01	(1) 1 =
	1		_	17601	Name\	Mayor
	+	+	_			. KRUPKA
	1			1	Position	
	1			I	AREA	ENGINEER
	ļ			1	Company	O PRODUCTION COMPANY
	j 1				Date	J PRODUCTION COM ANT
				1		MBER 9, 1977
		Sec			1	
1	l ł			1	1 hereb	y certify that the well location
	i			i	shown	on this plat was plotted from field
	ļ.			i	1 1	f actual surveys made by me or
	l .			2.5 3.50		y supervision, and that the same and correct to the best of my
	1				3 1	and correct to the best of my
	+ =				- - 	-
	 			771	1 116	
1	i			DEC 2 7	COM. Date Surv	eyed
	1			CON.	3 / Decer	mber 2, 1977
				OIL CON	Registere and/or La	d Professional Englineer md Surveyor
	l l				1 9	Jaden D
	l I			 	Fred	B. Kerr Jr.
					Certificat	
0 330 660	90 1320 1650 19	80 2310 2640 200	00	1500 1000	500 0 3950	- 1/20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
						U. D. W. S.

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

WEGOTKED BI MIT-0

VALENCIA CANYON UNIT NO. 23 1180' FNL & 1760' FEL, 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	4010'	+3190'
Lewis Shale	4210'	+2990'
TD	4300'	1

Estimated KB Elevation: 7200'

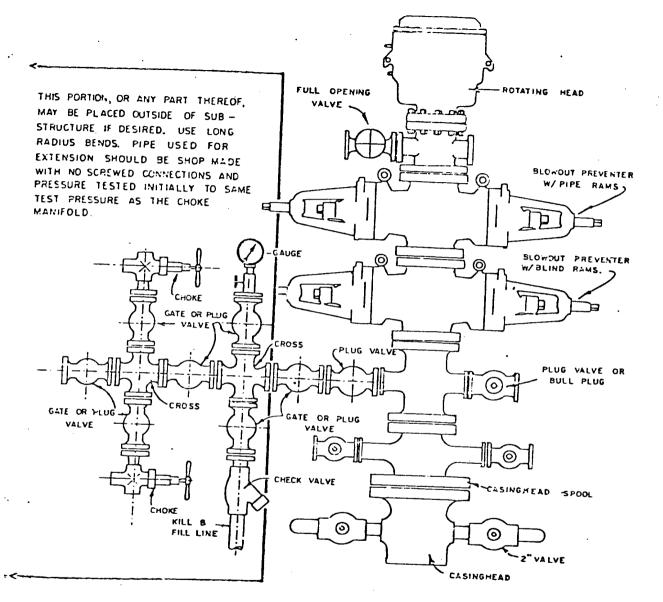
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300 ' 4300_ '	8-5/8" 4-1/2"	24# 10.5#	12-1/4" 7-7/8"	250 sx - Class "B", 2% CaCl ₂ . 1130 sx - Class "B", 6% Gel,
				2# Med. Tuf Plug/sx. 100 sx - Class "B" Neat.

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 2300', 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.



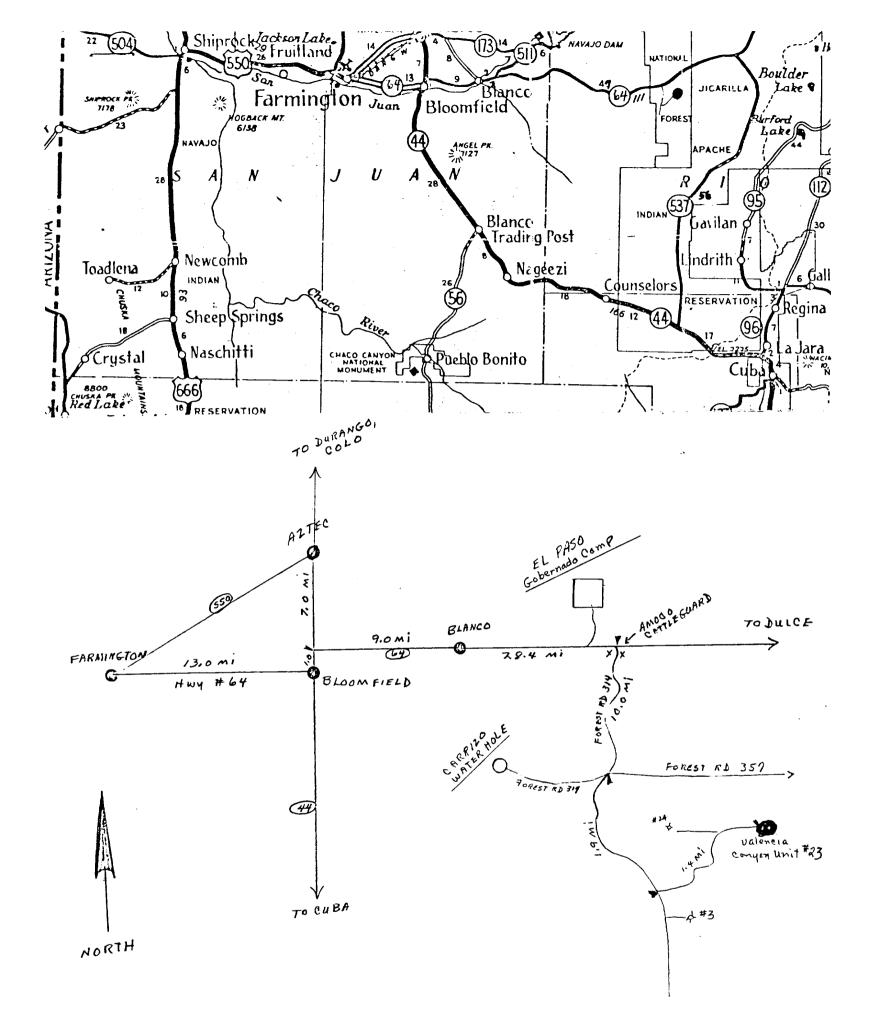
BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4 OCTOBER 16,1969

MULTI-POINT SURFACE USE PLAN

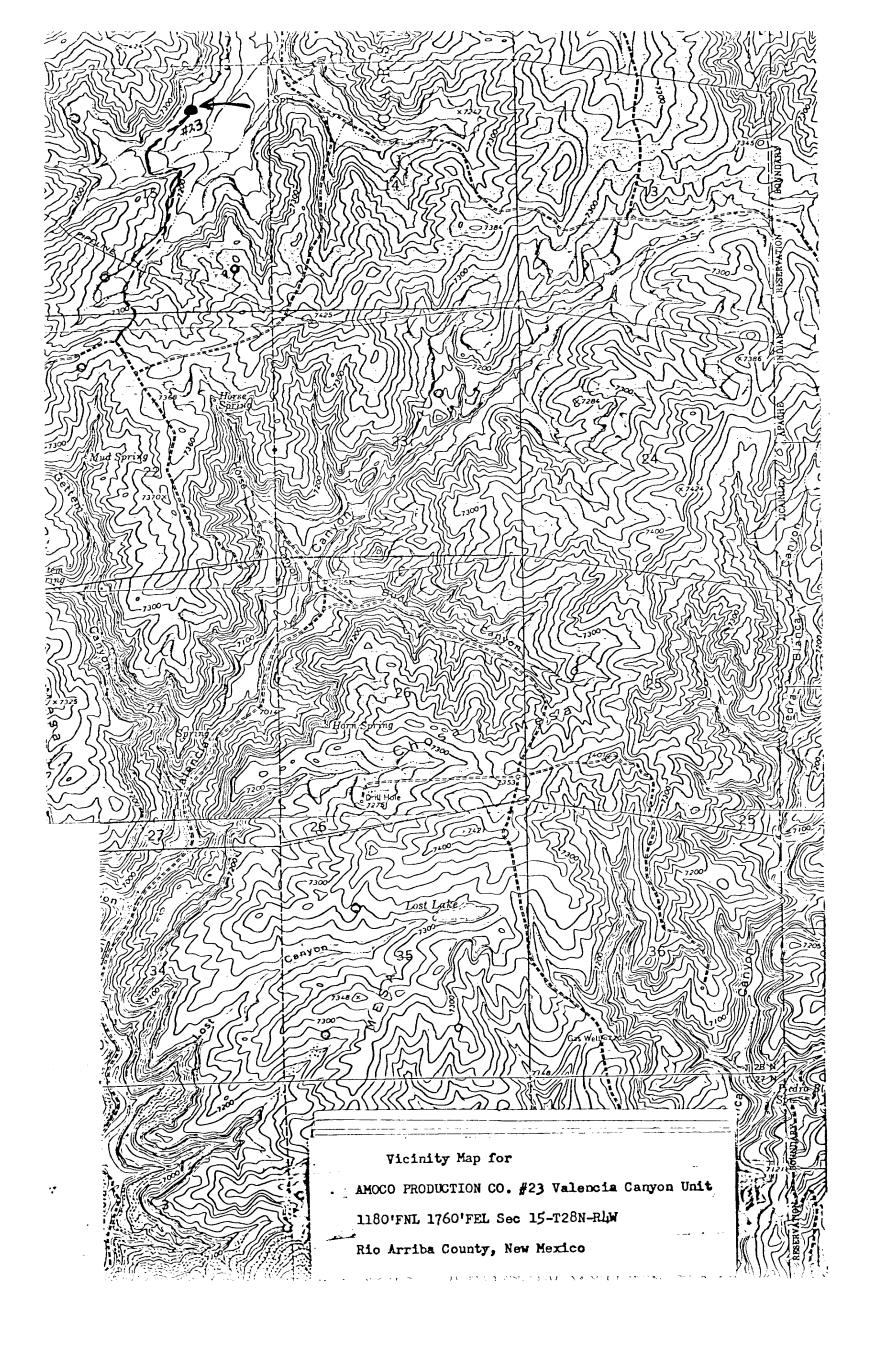
VALENCIA CANYON UNIT NO. 23 1180' FNL & 1760' FEL, SECTION 15, T-28-N, R-4-W RIO ARRIBA COUNTY. NEW MEXICO

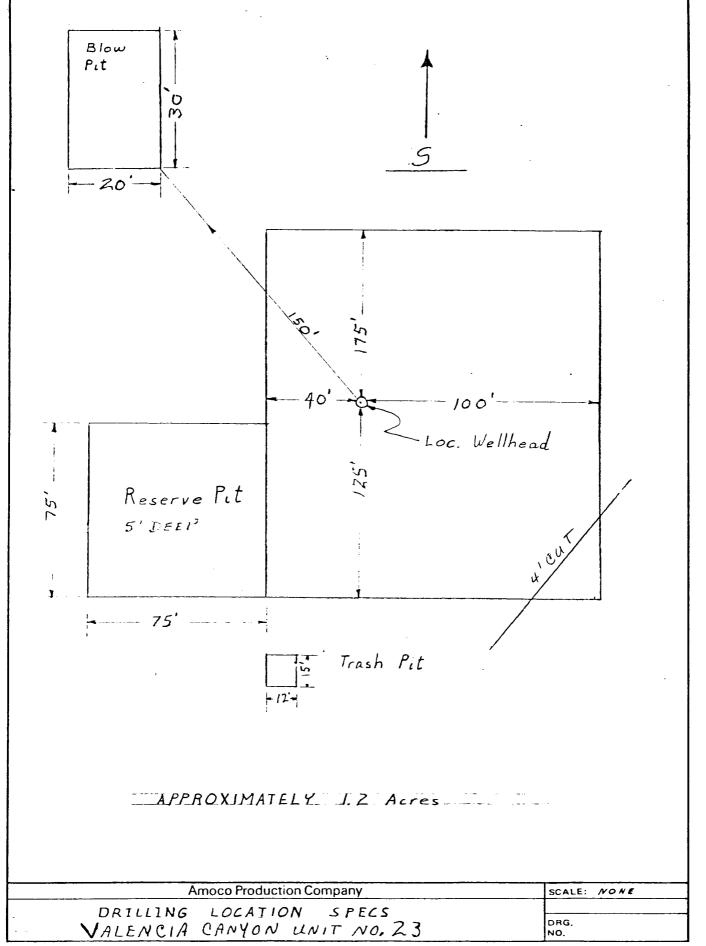
- The attached road map and sketch show the proposed route to the location and distances from towns.
- A new two-thirds mile access road will be constructed for this well as shown on the attached vicinity map. A portion of the new road will also serve Well No. 24. An existing logging road will be improved.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- 4. There are no tank battery facilities located at wells within a one-mile radius of the proposed location.
- 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 4-foot cut will be made on the northwest side.
- 10. Restoration of the surface will be accomplished by cleaning up and levelling upon completion of the well. Reseeding of the site will be carried out as detailed in the attached Seeding Plan.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. 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 vegetation of rabbit bush, blue gramma grass, sage brush with no trees on the location. The site is on the edge of a flat meadowy area.
 - 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. 23 RIO ARRIBA COUNTY, NEW MEXICO AMOCO WI: 100%

Rail Point, Aztec - 57.7 miles
Mud Point, Aztec - 57.7 miles
Cement Point, Farmington - 64.7 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. 23 1180' FNL x 1760' FEL, 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 by AMOCO 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