#### SUBMIT IN TRIPLICATE\*

oroved, ureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES				
DEPARTMENT	OF	THE	INTERIOR	

GEOLOGICAL SURVEY

30 - C

			ENI AD DILIG R		6. IF INDIAN,	3
APPLICATION	FOR PERMIT TO	O DRILL, DEEP	EIN, OR FLOG B	ACK		
YPE OF WORK		DEEPEN	PLUG BAC		7. UNIT AGRE	NT NAME
	LL 🕱	DEEF EIN		ł		
YPE OF WELL GA			SINGLE MULTIPE	re	8. FARM OF E	E NAME
ME OF OPERATOR	CLL OTHER				Cole Ca	Cem "A"
					9. WELL NO.	
AMOCO PRODUC DRESS OF OPERATOR	TION COMPANY		,	_		
		N NEW TOO	97401		10. FIELD AN	DOL, OR WILDCAT
CATION OF WELL (Re	POT ibeation clearly and	n accordance with any	State Tequirements.*)		Rience 11. sec., T, I	or BLK.
t surface	. & 1460 FEL, Se	ation 15. To25	LN R-9-W		AND SUR	OR AREA
t proposed prod. zon	e <b>faco spr' se</b>	CTTOM TAB		l	8W/4 E	4 Sec. 15
Same		TOTAL OR DOCT OFFI	CP\$		12. COUNTY	ARISH   13. STATE
DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OFF				7794
4 miles east	of Blanco	16.	NO. OF ACRES IN LEASE		ACRES ASSIG	130
DISTANCE FROM PROPU LOCATION TO NEAREST	3			то тн	IS WELL	303.67
PROPERTY OR LEASE L (Also to nearest drig	g, unit line, if any)	800	PROPOSED DEPTH	20. ROTAR	Y OR CABLE T	
DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,				Rotas	
OR APPLIED FOR, ON TH	IS LEASE, FT.	2200	4980	<u>'                                      </u>	22. APPROX	TE WORK WILL START*
ELEVATIONS (Show who	ether DF, RT, GR, etc.)				As som	permitted
<del>59331 GL</del>		TARREST CARTES A	ND CEMENTING PROGR	AM \		
	P	ROPOSED CASING A.	ND CEMENTING TROOM			
	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTIT	CEMENT
SIZE OF HOLE						
		22.35	2501	_	265 am	
12-1/4"	9-5/8"	32.3 <del>/</del>	250' 2860'		265 at 497 at	·
12-1/4" 8-3/4" 6-1/4"	9-5/8" 7" 4-1/2"	20# 10.5#	4980'	evelop t	497 de 271 de	rde reservoir.
12-1/4" 8-3/4" 6-1/4" The above retrievely will vill tops. The	9-5/8" 7" 4-1/2"	10.5#  le being drill the intermed led to TD. Go	2860' 4980'  ed to further distances in design so Nathral Con JUL 2 7 197 OIL CON. CON	will be Company	497 cm 271 cm the Meson y water based	senex. The open hele
12-1/4" 8-3/4" 6-1/4" The above retrieved will vill togs. The ment Plan retrieved to the proposal is to	9-5/8" 7" 4-1/2"  eferenced well is to be desired to be gas drill acreage is dedicated by NTL-  see Proposed Program: If oddill or deepen direction	10.5#  le being drill the intermed led to TD. Co cated to El Pa	2860' 4980'  ed to further design point ion design point for design point	will be company.	497 271 as the Head water based Attack  JUL 2 S. GEO' CS fuctive sone	Penex. The spen hole is a Develo
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12-1/4" 8-3/4" 6-1/4" The above reference of the well will to the well wil	9-5/8" 7" 4-1/2"  eferenced well if the drilled to be gas drilled acreage is dedicated by NTL-6  BE PROPOSED PROGRAM: If the drill or deepen direction my.	10.5#  is being drill the intermed led to TD. Go cated to K1 Pa  b.  proposal is to deepen of ally, give pertinent data	JUL 2 7 197 OIL CON. COM. DIST. 3  or plug back, give data on a on subsurface locations	will be company.	JUL 2 S. GEO CS ductive sone and true ve	Benex. The open hole is a Develop

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

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.

Item 4: If there are no applicable State requirements is state of a castal onice for specific institutions.

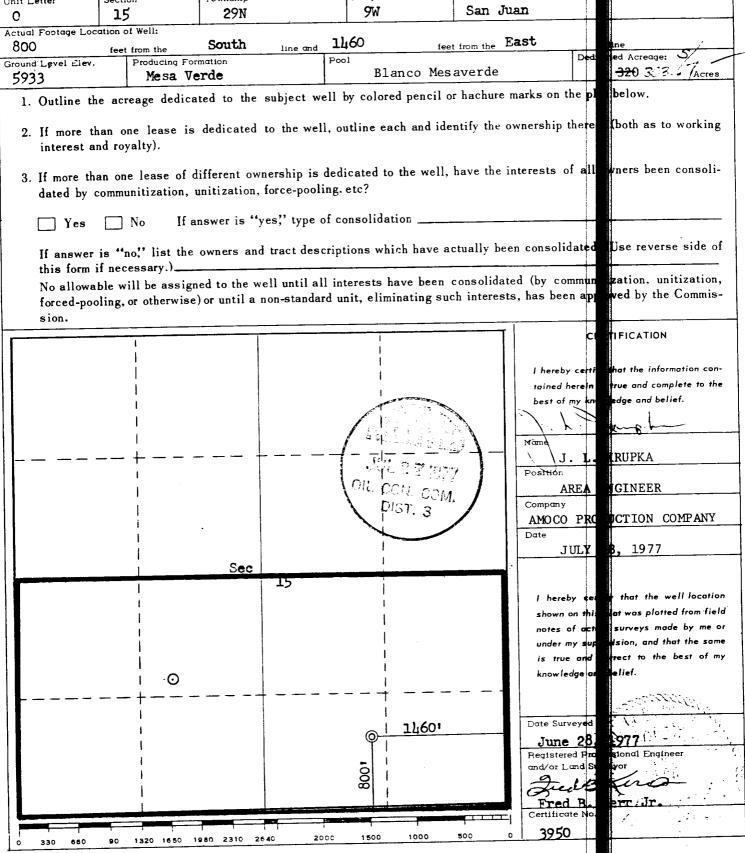
Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal 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

#### Form C-102 Supersedes C-128 Effective 1-1-65

#### NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Well No. 1.ease Operator lA Cole Gas Com "A" Amoco Production Company Range County Section Township Unit Letter San Juan 9W 15 29N Actual Footage Location of Well: feet from the East 1460 South 800 feet from the line and ed Acreage: Producing Formation Ground Level Elev. Blanco Mesaverde 320 303 /Acres Mesa Verde 5933 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership there both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all where been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation \_ Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communication, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been app ved by the Commis-IFICATION hat the information contrue and complete to the tained herein dge and belief. Name RUPKA Position ARE. GINEER CTION COMPANY AMOCO PRO JUL**Y** 1977 Sec that the well location I hereby ce at was plotted from field



COLE GAS COM "A" NO. 1A 800 FSL, 1460 FEL, SECTION 15, T-29-N, R-9-W SAN JUAN 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 propose herein will be performed by \_\_AMOCO FRODUCTION

COMPANY and its contractors and subcontractors in conformity with this plan and the terms an conditions under which it is approved.

JULY 18, 1977

Date

AREA SUPERINTE DENT

Name and Title

## DEVELOPMENT PLAN COLE GAS COM "A" NO. 1A 800 FSL, 1460 FEL, SECTION 15, T-29-N, R-9-W SAN JUAN COUNTY, NEW MEXICO

The proposed location has sage brush and a few cedar trees as vegetatic. The soil is sandy. The geological name of the surface formation is the Annuas. No new road will be required. No construction materials will be used for uilding the location; dirt will be leveled at the well site. No location cut all be required. Verbal approval of the drill site has been obtained from Mr Bob Moore, BLM; Mr. Leigh Freeman, USGS; and Ms. Dabney Ford, Archaeologis

Arrangements are being made to haul water from the San Juan River, app ximately 5 miles. Drilling fluid to 2860' will be water and Benex and the well ill be gas drilled from 2860' to TD (4980'). 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 BLM seeding plan to be followed for this well. In addition, all surface equipment will be painted green so as follow BLM requirements.

There are neither airstrips nor camps in the vicinity.

The estimated tops of important geological formations bearing hydrocar ons are:

FORMATION		DEPTH		EI VATION
Pictured Cliffs Cliffhouse Menefee Point Lookout		2457' 4122' 4213' 4712'		3489' 1824' 1733' 1234
Estimated KB elevation:	5946'			
	Unicht	Hole Size	Sacks Cement	- Type

Est. Depth	Csg. Size	Weight	Hole Size	Sacks Cement - Type
250 <b>'</b> 2860'	9 <b>-5/8"</b> 7 <b>"</b>	32 <b>.</b> 3# 20#	12-1/4" 8-3/4"	265 - Class "B", 2% aCl2. 500 - Class "B", 6% el, 2# Med.
		10.5"	6-1/4"	Tuf Plug/sx. 50 - Class "B", 2% aCl2. 200 - Class "B", 50 0 Poz, 6%
2660 <b>-</b> 4980'	4-1/2"	10.5#	6-1/4	Gel, 2# Med and Plug/sx, 0.2% Friction reducer.
				75 - Class "B", <b>50 %</b> 0 Poz, 6% Gel.

Amoco's standard blowout prevention will be employed, see attached diving for blow-out preventer design.

Amoco plans to run the following logs from TD to 2860': Induction-Electric, 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 three-we operation is anticipated.

### BLM SEEDING REQUIREMENTS IN THE FARMINGTON RESOURCE AREA

- 1. SEED MIXTURE 2
- 2. TIME:

All seeding will take place between July 1 and September 15.

3. 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, not up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be us Seed will then be covered to the depth described above by whatever means is practical.

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

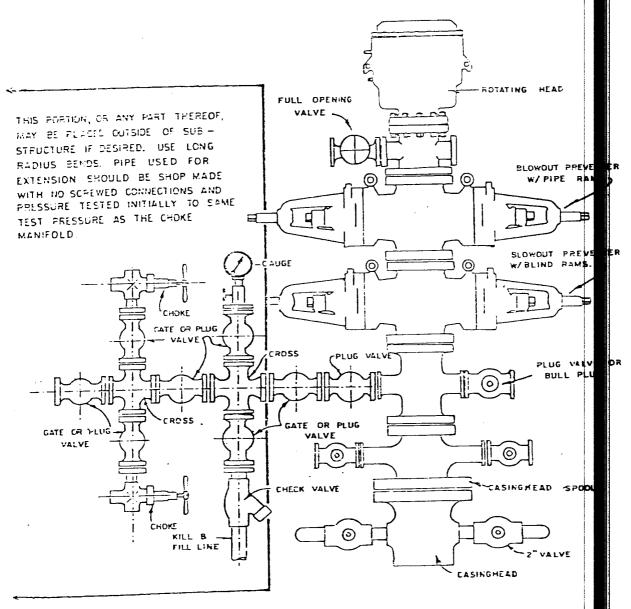
CRESTED WHEATGRASS (Agropyron desertorum) - 3½ 1bs.

FOURWING SALTBUSH (dewinged) (Atriplex canescens) - ½ 1b

SAND DROPSEED (Sporobolus cryptandrus) - 3/4 1b.

WINTERFAT (Eurotia lanata) - ½ 1b.

ALKALI SACATON (Sporobolus airoides) - 3/4 1b.



BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,

