#### SUBMIT IN TRIPLICATE\*

Form approved, Rudget Rureau No. 42-R1425

(Other instructions on reverse side)

	Duuget	Dureau	NO.	42-R1420.
30	-09	15	ري	2682
5. LEA	SE DESIG	NATION A	ND S	EBIAL NO.

## UNITED STATES DEPARTMENT OF THE INTERIOR

	GEOLO	GICAL SURVE	Y	SF 076337	
APPLICATION	FOR PERMIT T	O DRILL, D	EEPEN, OR PLUG B	6. IF INDIAN, ALLOTTEE OR TRIBE NAM	
. TYPE OF WORK	LL 🗝	DEEPEN [	_		
OIL GA	S OTHER		SINGLE MULTIPL ZONE	O. FARM OR LEASE NAME	
NAME OF OPERATOR				W. D. Heath "B"	
AMOCO PRODU	CTION COMPANY			14	
	r (ny vres wasting	omount had gi	14A1	10. FIELD AND POOL, OR WILDCAT	
LOCATION OF WELL (ROAT Surface	eport location clearly and	in accordance with	any State requirements.*)	11. SEC., T., R., M., OR BLR. AND SURVEY OR AREA	
1570 PSL & At proposed prod. zone	850 FEL, Section	on 31, T-30-	N, 18-9-W	NE/4 SE/4 Sec. 31	
Same	AND DIRECTION FROM NEAR	PEST TOWN OR POST	OFFICE*	12. COUNTY OR PARISH 13. STATE	
		aggi iown on rost			
DISTANCE FROM PROPO	of Blanco, NA		16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL	
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	850*	316.5	416.4	
B. DISTANCE FROM PROPORTO NEAREST WELL, DI	OSED LOCATION*		19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	IS LEASE, FT.	2720*	49031	22. APPROX. DATE WORK WILL STAI	
. ELEVATIONS (Show whe	ether Dr. RT. GR. etc.)				
5783 GL —		PROPOSED CASING	G AND CEMENTING PROGRA	September 1977	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT SETTING DEPTH	QUANTITY OF CEMENT	
SIZE OF HOLE	BIZE OF CRISING			950	
4443	0 - 1011	22.28	2501	950	
12-1/4"	9-5/8 <sup>11</sup>	32.3#	250 '	250 ex	
8-3/4" 6-1/4" This well to	7" 4-1/2" will be drilled	20# 10.5#	2770' 4903' drainage from offs	580 sx 305 sx et wells. The well will	
8-3/4" 6-1/4" This well to drilled be used for Completion are attached	7" 4-1/2"  will be drilled through the Me r circulation f design will be ed. A copy of	10.5#  to prevent saverde for row 2770' to based upon all logs wi	2770' 4903'  drainage from offs mation using rotary o surface and gas f open hole logs. A	set wells. The well will tools. Fresh mud will from TD (4903') to 2770'. diagram and acreage plat our office on completion. The	
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# 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 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, 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, 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

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

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

Annoco Production Company  W. D. Heath "BP"  It sees the section of twist and the section of the	· · · · · · · · · · · · · · · · · · ·		An distances most	1			Well No.
The control of the co	perator			W. D. Heath	пВи		! I
and a count recorded positions of Wells.    Seed to the tent the   South   100 and   850   100 test from the   Fast   100   10							
and foctory becetting at Well 1570 test from the South line and 850 test from the Fast line (1570 test from the Product Isvet Early Producted Forestein Fore	nit Letter	1	-	i -		uan	
1. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat 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).  3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?  1. Yes No If answer is "yes," type of consolidation  1. If more than one lease 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 communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.  37. 321 1303a51  Sec 31  1. hereby certify that the —formation centrained herein is true ore complete to the sect of my knowledges and belief.  1. hereby certify that the —formation centrained herein is true ore complete to the sect of my knowledges and belief.  2. Hereby certify that the section of the well of my knowledges and belief.  2. Hereby certify that the section of the well of my knowledges and belief.  2. Hereby certify that the best of my knowledges and belief.  2. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify that the best of my knowledges and belief.  3. Hereby certify th			1 7011				
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If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?  Yes No If answer is "yes," type of consolidation  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 communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.  97.32' 1303.5'  2606.3h'  CERTIFICATION  I hereby certify that the "formation contained barein is true are complete to the best of my knowledge and belief.  Nage  J. L. KRUEKA  Position  AREA ENGINTER  Company  ANOCO PRODUCTIO: COMPANY  Date  JULY 27, 1977  I hereby certify that the well facultan shown on this play was played from field ances of octual surveys mode by an or under my supervision, and that the some under my supervision, and that the some is true and correct to the best of my knowledge and belief.  Date Surveyed.  J. L. KRUEKA  Position  AREA ENGINTER  Company  ANOCO PRODUCTIO: COMPANY  Date  JULY 27, 1977  Increase of certual surveyer mode by an or under my supervision, and that the some under my supervision, and their the some under my supervision.  President KERTER  Presid	1. Outline	the acreage dedic	ated to the subject				
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#### W. D. HEATH "B" NO. 1A 1570 FSL & 850 FEL, SECTION 31, T-30-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 proposed herein will be performed by \_\_\_\_\_AMOCO PRODUCTION

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

JULY 27, 1977

Date

AREA SUPERINTENDENT

Name and Title

#### DEVELOPMENT PLAN

#### W. D. HEATH "B" NO. 1A

1570 FSL & 850 FEL, SECTION 31, T-30-N, R-9-W SAN JUAN COUNTY, NEW MEXICO

The proposed location is located on coarse sandy soil with juniper and pinon pine trees, snakeweed, rabbit brush, Morman tea, prickly pear, and Challa cacti. The geological name of the surface formation is the Nacimiento. No new road will be required. No construction materials will be required to build the location, and the location will be leveled and cleaned up upon completion.

The water will be hauled to the location from a ditch in Blanco, over existing roads. The hole will be drilled using fresh mud from surface to 2770' and gas from 2770' to TD (4903'). Upon completion the location will be cleaned, leveled, and the reserve pit will be backfilled. Attached is the BLM seeding plan to be followed for this well.

There are no airstrips in the vicinity.

The estimated tops of important geological formations bearing hydrocarbons are:

FORMATION	<u>DEPTH</u>	ELEVATION
Pictured Cliffs	2351'	+3445
Cliffhouse	3986 <b>'</b>	+1810 '
Menefee	4150 <b>'</b>	+1646'
Point Lookout	4579 <b>'</b>	+1217

Estimated KB elevation is: 5796'

The proposed setting depth of each casing string and type of cement to be used for each is as follows:

DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
250 <b>'</b> 2770 <b>'</b>	9 <b>-</b> 5/8" 7"	32.3# 20#	12-1/4" 8-3/4"	250 - Class "B", 2% CaCl <sub>2</sub> , 2# Med. 450 - Class "B", 2% CaCl <sub>2</sub> , 2# Med. Tuf Plug/sx.
2770-49	03' 4-1/2"	10.5#	6-1/4"	100 - Class "B" Neat. 255 - Class "B" 50:50 Poz, 2% Gel, 2# Med Tuf Plug/sx, 0.2%
				Friction Reducer. 50 - Class "B" 50:50 Poz, 2% Gel.

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

Amoco plans to run the following logs from TD to intermediate casing: Induction Gamma Ray, Density Gamma Ray. No cores or Drill Stem Tests will be taken.

Our experience in this area has shown no abnormal pressures, temperatures, or hydrogen sulfide gas will be encountered.

Our proposed starting date is September 1977, and a three week 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 used. 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:

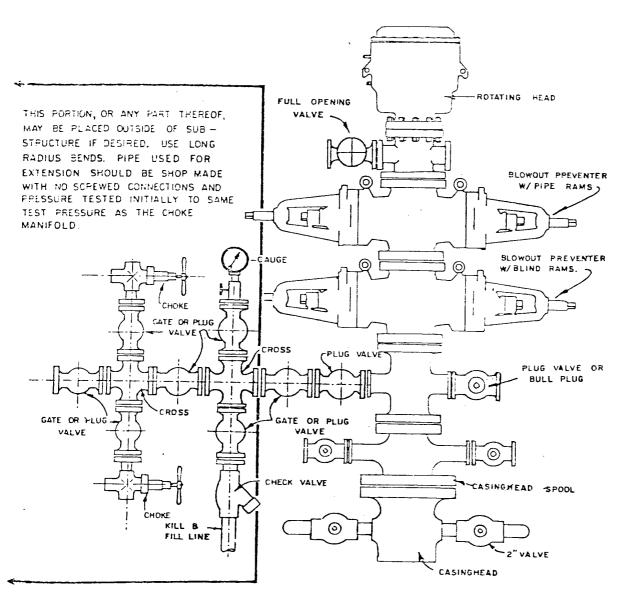
CRESTED WHEATGRASS (Agropyron desertorum) - 31/2 lbs.

FOURWING SALTBUSH (dewinged) (Atriplex canescens) - 1/2 lb.

SAND DROPSEED (Sporobolus cryptandrus) - 3/4 lb.

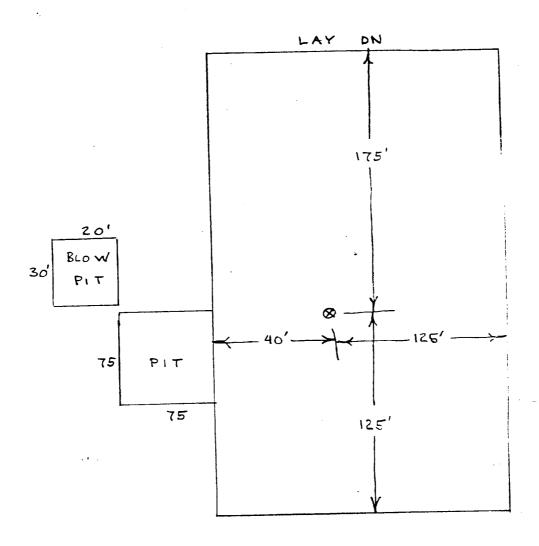
WINTERFAT (Eurotia lanata) - 1/2 lb.

ALKALI SACATON (Sporobolus airoides) - 3/4 lb.

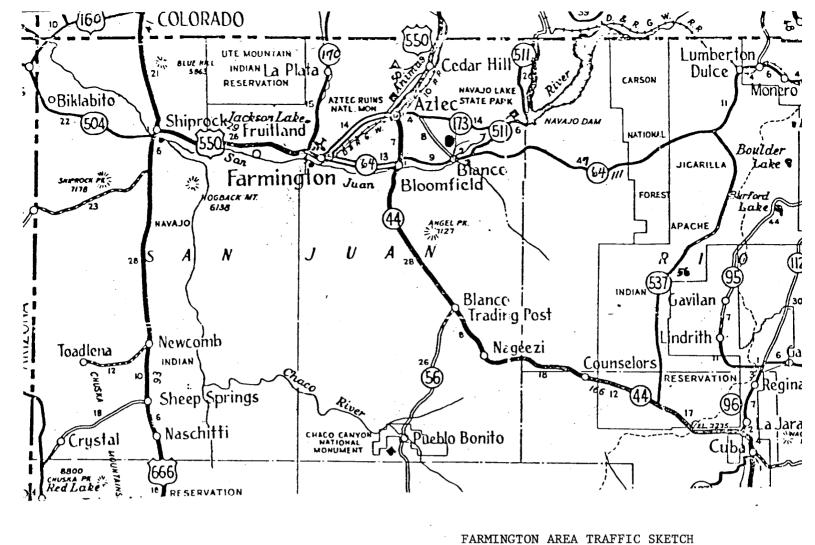


BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969



W. D. HEATH "B" IA SEC 31 T30N R9W 950 FEL 1570 FSL NE 1/4 SE 1/4



W. D. Heath "B" No. 1-A San Juan County, New Mexico Amoco WI: 100% TO DURANGO, - 18.7 miles - 18.7 miles Rail Point, Aztec Mud Point, Aztec Cement Point, Farmington - 25.7 miles 7-19-77 550 NORTH CEDAR HILL 1.0 Mi AZTEC Co. RD #18 FF PHOLO 64) FARMINGTON 13.0 Mi BLOOM FIELD 4

DENVER DIVISION

