## SUBMIT IN TRIPLICATE\*

Form approved. Budget Bareau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES reverse DEPARTMENT OF THE INTERIOR	30-045-24531
GEOLOGICAL SURVEY	5. Lease designation and serial no.  SE-078828-A
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG	C YM THOUGH AT COMPANY OF COUNTY MARKET
1a. Type of work	TANKS ACCUMANTED NAME
DRILL X DEEPEN PLUG BA	Gallegos Canyon Unit
OIL GAS WELL WELL OTHER INFILL SINGLE ZONE ZONE	S. FABM OR LEASE NAME
2. NAME OF OPERATOR  AMOCO PRODUCTION COMPANY	3. WELL NO.
3. ADDRESS OF OPERATOR	174E
501 Airport Drive, Farmington, New Mexico 87401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)	Basin Dakota
At surface	11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA
1450' FNL and 410' FWL, Section 28, T28N, R12W  At proposed prod. zone	SW/4, NW/4, Section 28,
Same  14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*	T28N, RI2W 12. COUNTY OR PARISH 13. STATE
9 miles Southeast of Farmington, New Mexico	San Juan New Mexico
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST  16. NO. OF ACRES IN LEASE	17. NO. OF ACERS ASSIGNED TO THIS WELL
PROPERTY OR LEASE LINE, ST. (Also to nearest drig. unit line, if any)	20. ROTARY OR CABLE TOOLS
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  1900' 6500'	Rotary 3 2
21. ELSVATIONS (Show whether DF, RT, GR, etc.)	22. APPROX. DATE WORK WILL START
5603' GL	As soon as permitted
23. PROPOSED CASING AND CEMENTING PROC	
SIZE OF HOLE SIZE OF CASING .WEIGHT PER FOOT SETTING DEPTH	315 sx Class B w/2% CaCl2-circ
12-1/4" 8-5/8" (New) 24# K-55 300' 7-7/8" 4-1/2" (New) 10.5# K-55 6500'	Stage 1-360 sx Class "8", 50:50
	POZ, 6% gel, 2# med tuf plug/sx
This application to drill an Infill Basin Datota well is	and 0.8% FtA. Tail in with 100 sx Class "B" Neat-circ.
pursuant to Order No. R-1670-V approved by the NMOCD on	Stage 2-640 sx Class "B" 65:35 POZ,
May 22, 1979. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.	6% gel, 2# med tuf plug/sx and 0.8% FLA. Tail in with 100 sx Class
The gas from this well is dedicated to El Paso Natural	"B" Neat-circ.
Gas Co.	DV tool set at 3915!
Application for an unorthodox location has been approved	
by the Santa Fe office of the NMOCD.	
RECEIVED	RILLING OPERATIONS AUTHORIZED ARE
2 (20)	GENERAL REQUIREMENTS"
1 000	DEHERAL REQUIRE
U. S. GEOLOGICAL SURVEY.  IN ABOVE SPACE DESPARMWOODS PROGRAM: IT Proposal is to deepen or plug back, give data in an approximation length.	Digital and productive
IN ABOVE SPACE DESPARM WHO PROCESS. If Proposal is to deepen or plug back, give data or zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface location	as and measured and true vertical depths. Give blowout
preventer program, if any.	
R. A. Nounes District End	ineer DATE June 14, 1980
(This space for Federal or State office use).	
AS A	
PERMIT NO.	
APPROVED BY Sure Wanning TITLE	DATE
CONDITIONS OF APPROPRIE, IF ANY :	
from the same of t	
p361165	

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

# P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-10? Revised 10-1-78

		All distances must be		mustice to the Section	·	
Operator			Lease			Well No.
<del></del>	TION COMPANY	T		OS CANYON UNIT		174-E
Unit Letter	Section	Township	Range	County	_	
E	28	28N	12W	San	Juan	
Actual Footage Loc			120		77 1	
11,50		orth line on		feet from the	West	line
Ground Level Elev.	Producing For		Pool	Dalaska		edicated Acreage;
5603	Dakota	<del></del>		Dakota		320 Acres
<ol> <li>If more the interest are</li> <li>If more that</li> </ol>	nan one lease is nd royalty). an one lease of d	ifferent ownership i	ell, outline ea s dedicated to	ch and identify the	ownership the	reof (both as to working
dated by communitization, unitization, force-pooling.etc?  X Yes No If answer is "yes," type of consolidation <u>Unitization (Gallegos Canyon Unit)</u> 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.						
			ı			CERTIFICATION
11,501			1		tained here best of my	rtify that the information con- in is true and complete to the knowledge and belief
<u>tilor</u>	+   				Position DISTRIC	ACKRELL  T ENGINEER  RODUCTION COMPANY
	CT CZCCCC h	Sec.	. !		1,300	¥ 15, 1980
	SF-078828-A		<u> </u>		11 /6	
	⊙           	Cany	o operates on Unit wit ing interes	h a 51.7%	shown on t notes of a under my s	certify that the well location his plat was plotted from field ctual surveys made by me or upervision, and that the same d correct to the best of my and belief.
					Date Surveye  January  Registered P  and/or land  Fred B	20. 1980 fotestonal Engineer Surveyor
220 450	90 1320 1650 19	080 2310 2640	2000 1500	1000 500	Certificate N	d. 4603, 15.

1320 1650 1980 2310 2640

330

650

#### SUPPLEMENTAL INFORMATION TO FORM 9-331C

# GALLEGOS CANYON UNIT NO. 174E 1450' FNL & 410' FWL, SECTION 28, T28N, R12W SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the \_\_\_\_\_Tertiary Nacimiento

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATION	DEPTH			ELEVATION
Ojo Alamo	167	t		5449 <b>'</b>
Kirtland	377	1		5239 !
Fruitland	1045	ŗ	٠.	4571 <b>'</b>
Pictured Cliffs	1315	ı		4301
Chacra (if present)		1		•
Mesaverde Cliff House				2751 <b>'</b> 1851 <b>'</b>
Gallup	4935	1	•	681
Dakota	5845	1		- 229 '
TD	6500	1		- 884

Estimated	KΒ	elevation:	5616

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing:

SP-GR-Induction FDC-CNL-GR

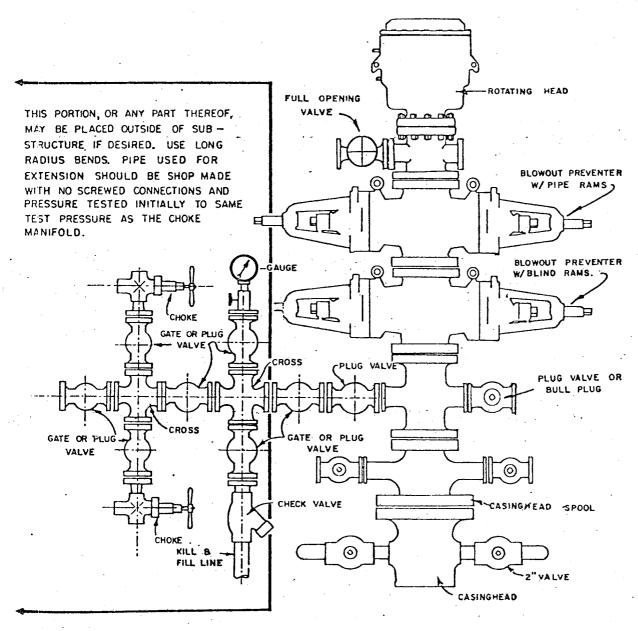
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

- good condition.
- 2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
- 3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
- 4. All fittings to be flanged.
- 5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.



### BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4
OCTOBER 16,1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

#### MULTI-POINT SURFACE USE PLAN

GALLEGOS CANYON UNIT NO. 174E
1450' FNL & 410' FWL, SECTION 28, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will not be necessary to build any access road.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
- 4. There is a 380-barrel tank and facilities located at Gallegos Canyon Unit Well No. 165 (H-29-28-12) and at Gallegos Canyon Unit No. 174 (K-28-28-12).
- 5. Water will be hauled from the San Juan River.
- 6. No construction materials will be hauled in for this location.
- 7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
- 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. An 8-foot cut will be made on East side.
- 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 instructed by the Bureau of Indian Affairs (NAPI).
- The general topography is an uneven terrain, sandy loam soil, with vegetation consisting of Juniper and native grasses.

Representatives of the U. S. Geological Survey's Farmington Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from Salmon Ruins.

12. Operator's Representative: R. W. Schroeder

Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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.

DateMarch 14, 1980	K.W. Schroedinga			
	R. W. Schroeder, District Superintendent			

