SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

30-045-24289 5. Lease designation and serial No.

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOL	SF-08072 3					
APPLICATION FOR PERMIT	TO DRILL, D	DEEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTT	EE OR TRIBE	NAME
DRILL 3	DEEPEN [PLUG BA	ск 🗌	7. UNIT AGREEMENT Gallegos Ca		it ,
OIL GAS WELL OTHER	INFILL	SINGLE MULTII	,ruc	8. FARM OR LEASE N	AM E	
AMOCO PRODUCTION COMPANY				9. WELL NO.	E	-
501 Airport Drive, Farmin	10. FIELD AND POOL, OR WILDCAT Basin Dakota					
At surface 1470' FSL and 920' FEL, 5 At proposed prod. zone	11. SEC., T., R., M., O AND SURVEY OR NE/4, SE/4,	R BLK. ABEA Section	20,			
Same 14. Distance in Miles and direction from N	T29N,		TE			
3.5 miles Southeast of Fa	San Juan	New M	lexico			
15. BESTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)	920'	16. NO. OF ACRES IN LEASE 43,146.62	тот	of acres assigned his well 320		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED,	2640'	19. PROPOSED DEPTH	20. ROTA	Rotary		

 $\overline{23}$. PROPOSED CASING AND CEMENTING PROGRAM

JIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
12-1/4"	8-5/8" (New)	24# K-55	300	
7-7/8"	4-1/2" (New)	10.5# K-55	6500 '	
	1	ı		ı

This application to drill an Infill Basin Dakota well is pursuant to Order No. R-1670-V approved by the NMOCC on May 22, 1979. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.

The gas from this well is dedicated to Amoco Gas Company. Rehabilitation Plan from surface owner is attached.

315 sx Class "B" Neat w/ 2% CaCl2-Stage 1-360 sx Class "B" circ 50:50 POZ, 6% gel, 2# med tuf plug/ sx and .8% FLA. Tail in w/ 100 sx Class B Neat-circ. Stage 2-640 sx Class "B" 65:35 POZ 6% gel 2# med tuf plug/sx and .8% FLA. Tail in w/ 100 sx Class B Neat-circ.

22. APPROX. DATE WORK WILL START*

As soon as permitted

QUANTITY OF CEMENT

U. S. GEOLOGICAL SURVEY d proposed new productive IN ABOVE SPACE DESCRIBE PROPOSAR MINISTED IN INDIMPOSAL is t deepen or plug back, give data on presen ertical depths. Give blowout pertinent data on subsurface locations and meas red and true zone. If proposal is to preventer program, if any. District Engineer PATE February 19, 1980 SIGNED (This space for Federal or State office use) APPROVAL DATE _ PERMIT NO. __ DATE .. TITLE APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

In Fruit

21. M. VATIONS (Show whether DF, RT, GR, etc.)

5522' GL

STATE OF HEW MEXICO LHERGY ALS MINERALS UPPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

		,	All distance	ra muet he fro	m the cuter	1.0 testerete	o of the Sect	lim.			
Cperator					Lease						Well No.
AMOCO PRODUCTION COMPANY			GALLEGOS CANYON UNI		UNIT			111-E			
Unit Letter	Section		Township		Range	•	County	1			
ı .	20)	29N		1 1	.2W	S	an ,	Juan		
Actual Footage Loca	ation o	Well:									
1470	feet	from the So	outh	line and	920		feet from th	ne .	East		line
Ground Level Elev.		Producing Forms	tion		Pool					Dedice	ated Acreage:
5522		Dakot a			Basi	n Dako	ta				320 Acres
1. Outline the	e acre	eage dedicate	d to the	subject we	ell by col	ored pen	cil or hach	ure	marks on th	ne plat	t 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? X Yes No If answer is "yes," type of consolidation Unitization (Gallegos Canyon Unit)											
X Yes		•									
If answer i			vners and	tract desc	riptions w	hich ha	ve actually	bee	n consolid	ated.	(Use reverse side of
		•	to the w	ell until at	interests	have be	en consol	idate	ed (by. com	munit	ization, unitization,
											oved by the Commis-
sion.	•				• 1	ン <u>た</u> 。	-				
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ĺ		Į		1	U. S. GEN	OLOGICAL	SURVEY		1 hereby	certify	that the information con-
		i		l	FARM	INGTON,	N. M.	11	4		true and complete to the
		• [I			'			ledge and belief.
[25	1	1 1/
		Amoco op	erates	Gallegos	Canyon	Unit v	vith a		D. C	. 20	ichur]
		51.7%_wo	rking	interest.	i			4	Nome n E E	יא פעדם:	DT T
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		Subject	well	ocated of	n Fee S	ırface	and		DISTRIC	יידי ביאו	CINEER
		Federal	Miner	l owners	hip.				Company	, <u>T. 1714</u>	GINEEK
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	<u> </u>	 	23	20		SF-08	1 APT		8 1980 of	this p octual superv	y that the well location lat was plotted from field surveys made by me or rision, and that the same trect to the best of my
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Lease No.: GC.	Well Name and No.: 6,C.V. /// E F56 920 FEF , Sec. 20, T. 29 N., R./2 W.						
Location: 1470	FSL 920 FEL , Sec. 20, T. 29 N., R./2 W.						
owned by San Jak agrees to complete	intends to drill a well on surface The lessee/operator the following rehabilitation work if the well is a producer:						
Yes 📝 No	Maintain access road and provide adequate drainage to road.						
Yes // No Reshape and reseed any area not needed for maintenance of the pump and support facilities.							
Other requirements:	Keep Gate Chsek						
The following work	will be completed when the well is abandoned:						
⅓ Yes // No	Pit will be fenced until dry, then filled to conform to surrounding topography.						
// Yes - // No	Water bars will be constructed as deemed necessary.						
	Site will require reshaping to conform to surrounding topography.						
∑ Yes	Entire disturbed area will be reseeded. If yes, the following seed mixture will be used.						
	Blm specs.						
// Yes // No	Access road will be closed, rehabilitated and reseeded using the same seed mixture as above.						
// Yes // No	Access road will remain for surface owner's use.						
Yes // No	Water bars will be constructed on the access road as deemed necessary.						
Other requirements:							
Surface Owner:	Operator/Lessee:						
State:	Name: A Moco Prod. Co. H Address: 501 Air Port City: Form of Ton State: N.M. Telephone: 325-88H2 Date: e rehabilitation plan is acceptable to me. I also waive an intensive						
Cultural Resource F							

This plan does not affect any other agreements between the lessee/operator and surface owner.

SUPPLEMENTAL INFORMATION TO FORM 9-331C

GALLEGOS CANYON UNIT NO. 111E 1470' FSL & 920' FEL, SECTION 20, T29N, 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	<u>DEPTH</u>	ELEVATION
Ojo Alamo	231 '	5304 *
Kirtland	281 •	5254 1
Fruitland	761 '	4774 •
Pictured Cliffs	1461 •	4074 *
Chacra (if present)		. •
Mesaverde Cliff House Point Lookout	2961 ' 3841 '	2574 ' 1694 '
Gallup	5121 '	414 '
Dakota	6051 '	-516 '
TD	6500 '	-965 ¹

Estimated KB elevation: 5535

0

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-Gamma Ray

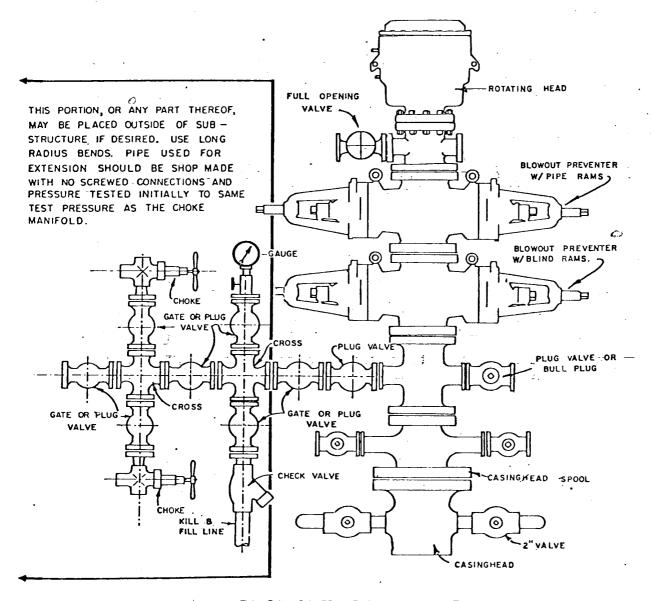
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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.

- 1. Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in 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. IIIE 1470' FSL & 920' FEL, SECTION 20, T29N, RI2W SAN JUAN COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will be necessary to blade and improve two-tenths mile of road, 20 feet wide. to be bar ditched on one side.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- 4. There is a 380-barrel tank and facilities located at Gallegos Canyon Unit Well No. III, SW/4 Section 20, T29N, RI2W.
- 5. Water will be hauled from the San Juan River a distance of about 6 miles.
- 6. No construction materials will be hauled in for this location.
- 7. A 150' by 150' 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.
- 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. No cuts will be necessary as location is nearly level.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as detailed on Rehabilitation Plan with surface owner.
- II. The general topography is soil with a scattering of rock and gravel with the terrain nearly level. Vegetation consists of some native grass and rabbit brush.

Amoco personnel met with the surface owner and worked out rehabilitation plans for surface disturbance. Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management will inspect the site with Amoco personnel. Cultural resources inspection will be conducted by an archaeologist from San Juan College.

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.

