01.5 ml

SUBMIT IN TRIPLICATE.

Form approved, Budget Burenu No. 42-R1425.

(Other instructions on reverse side)

# UNITED STATES

30-045-24272

	5. LEASE DESIGNATION AND SERIAL NO.								
GEOLOGICAL SURVEY							SF-078106:		
APPLICATION	V FOR PERMIT 1	O DRILL, I	DEEPE	N, OR PLU	G BAC	CK	G. IF INDIAN, ALLOTTEE		мш
a. TYPK OF WORK	,	December 1		DI LIC	D.A.CK		7. UNIT AGREEMENT NA	ME	
	LL 🗵	DEEPEN [	_J	PLUG	BACK		Gallegos Can		_
b. TYPE OF WELL O.	AS (	THEFT	81		ULTIPLE	$\Box$	S. FARM OR LEASE NAM		
WELL W	ELL X OTHER	INFILL	z	NE EL Z	ONE	<u> </u>			
	UCTION COMPANY						9. WELL NO.		
ADDRESS OF OPERATOR	OCTION CONTAIN						218E		
	t Drive, Farmin	oton New N	lexic	0 87401			10. FIELD AND POOL, O	R WILDCAT	
L LOCATION OF WELL (R	eport location clearly and	in accordance wit	h any S	tate requirements.	•)		Basin Da	kota	
At surface							11. SEC., T., R., M., OH E	LK.	
. m. P	L and 1080' FWL,	, Section 2	2, T2	8N, R12W			SE/4, NW/4, Section 22		
At proposed prod. zon	same						T28N, R1		
4. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POS	r OFFICI	.*			12. COUNTY OR PABISH		
	Southeast of Fa						San Juan	New Mex	kico
5. DISTANCE FROM PROPO	SED*		16. NO	OF ACRES IN LEAD	SE   17	7. NO. C	F ACRES ASSIGNED	•	
LOCATION TO NEAREST PROPERTY OR LEASE I	INE, FT.	0001		43,146.62	i	TO TI	A 320		
(Also to nearest drlg		900'	- <del>19</del> . rr	OPOSED DEPTH		). ROTA	RY OR CABLE TOOLS	<del> </del>	
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED,	3325'		6500 <b>'</b>			Rotary	1 - 1.	
21. ELEVATIONS (Show who		3323			<u>-</u>		22. APPROX. DATE WO	BK WILL STA	RT*
5650 <b>G</b>				•			As soon as p	ermitte	đ
23.		POPOSED CASIN	IG ANT	CEMENTING PR	ROGRAM		<u> </u>		
		KOI OSED CASI		- CDMBHIMO TA			•	<del> </del>	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO		SETTING DEPTH			QUANTITY OF CEMEN		
12-1/4"	8-5/8" (New)	24# K-		300'	$ \frac{3}{31}$	.5 SX	Class "B" Neat	-circ	•50
7-7/8"	4-1/2" (New)	10.5# K-	25	650 <b>0'</b>	$ \frac{St}{Dc} $	age	1-360 sx Class gel, 2# med t	uf pluc	/cv
							8% FLA. Tail i		
	· 1 * 3 1 Y	u Edil Doods	n Dati	oto moll fo			"B" Neat-circ.		0 31
This application	on to drill an I ler No. R-1670-V	nilli bası	1 Dak	ora wern is	42	200	2-640 sx Class	"B" 65	:35
oursuant to ord	This well will	appioved i	der S	ection 103		17 F	% gel, 2# med	tuf plu	g/sx
ay 22, 1979.	Gas Policy Act	under Orde	r No	R-1670-V			8% FLA. Tail		
	is well is dedi						"B" Neat-circ.		
as Co.	IIS WELL IS GEGI	Cated to b.	. 100	o Racarar		. •		. "	
							The same of	ac - '	
							100 21	13U	
							- HER		
							OIL CON. C	ONI-	
							DIST.	<i>5</i>	
N ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If p	proposal is to deep lly, give pertinent	en or p	lug back, give data n subsurface locati	on presentions and m	nt prod ceasure	uctive zone and propose d and true vertical depti	d new produ as. Give blo	ctive wout
reventer program, if an									
4.	< 1 0 0	0							
SIGNED 5.	2. Jackul	<b>(</b>	LE	District Er	ngineer	r	DATE March	ı 6, 198	0
	3 94							<del></del>	<del></del>
(This space for Fede	ral or State office use)								
PERMIT NO.				APPROVAL DATE					
							APPROVE	ED	
APPROVED BY		TIT	LE			-	DATE		
CONDITIONS OF APPROV	AL, IF ANY:					1	MART 0 1 400	_	

NMOCC

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

## P. O. UOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102 kevised 10-1-78

-AMOCO PRODUCTION COMPANY GALLEGOS CANYON UNIT 218-E	Cycrator		All distances must be I	- <del></del>	eirs of the Section	n.	
Description	•	∐₾₱₮₳₮ <u>₾</u> ₳₩₽₳₮	v	Lease	CANDON INTE	1	Well No.
Describing Location of well:  900							1 510-E
Pool test from the North the and 1080 feet from the West Interest Pools (Producting Formation 5650 Dakota Basin Dakota Dedicated Accesser 5650 Dakota N 320 Access 10 Outline the accessed addicated to the subject well by colored pencil or hachure 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?  X Yes		i	•	ļ -	1	I Juan	
Pool Dakota  Basin Dakota  Described Accessor:  A 320 Acres  1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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?  X Yes No If answer is "yes," type of consolidation Unitization (Gallagos Canyon Unit)  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 approach by the Commission.  CERTIFICATION  1 hereby certify that his information contained herein is two and complete to the best of my honoledge ond belief.  B. E. FACKRELL Passition.  DISTRICT ENGINEER  Company  Amoco operates Gallagos Canyon Unit with  a \$1.72 working interest.	Actual Footage Loc	ation of Well;		· · · · · · · · · · · · · · · · · · ·			
1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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?	<del></del>	<del></del>		<del></del>	feet from the	West	line
1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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?    X Yes	• -		rmation	<b>1</b>			
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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. Outline th	e acreage dedica	ted to the subject v	vell by colored pe	encil or hachure	marks on th	e plat below.
Amoco operates Gallegos Canyon Unit with  Certification  Certification  I hereby certify that the well lacotion than on this plat was platted from field  I hereby certify that the well facetion than on this plat was platted from field  January 11980  Registered frield-sprong Leafing and Sallegos Canyon Unit with  Certification, and that the same and sallegos Canyon Unit with the best of my  Certification of certification, and that the same and sallegos Canyon Unit with the best of my  Certification of certification, and that the same and sallegos Canyon Unit with the best of my  Certification of certi			dedicated to the we	ll, outline each a	nd identify the	ownership th	nereof (both as to working
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.  CERTIFICATION  I hereby certify that the information contained been in its true and complete to the best of my knowledge and belief.  Position  Name  B. E. FACKRELL  Position  DISTRICT ENGINEER  Company  Dote  JANUARY 30, 1980  I hereby certify that the well location shown on this plat was plotted from field of actual surveys made by me or a supervision, and that the same a 51.7% workking interest.  APR  APR  C.M.  Date Surveyed  January (1980)  Registered glips among Endigger and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  C.M.  Predistrict for the best of my hardy and belief.  C.M.  C.M.  Predistrict for the best of my hardy and h					well, have the	interests of	all owners been consoli-
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.  CERTIFICATION  I bereby certify that the information contained herein is true and complete to the best of my haveledge and belief.  B. E. FACKRELL  Position  District Engineer  Company  AMOCO PRODUCTION COMPANY  Date  JANUARY 30, 1980  I hereby certify that the well location thou on this plat was plained from field the seme of octual surveys made by me or of	X Yes	No If a	nswer is "yes," type	of consolidation	<del>Unitization</del>	(Gallegos	- Canyon Unit)
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.  CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  SF-078928  Sec.  SF-078928  SF-078928  SF-078928  Amoco operates Gallegos Canyon Unit with a 51.7% working interest.  Amoco operates Gallegos Canyon Unit with a 51.7% working interest.  Amoco operates Gallegos Canyon Unit with a 51.7% working interest.  Amoco operates Gallegos Canyon Unit with a 51.7% working interest.  Amoco operates Gallegos Canyon Unit with a 51.7% working interest.  COM.  Discourse for the best of my supervision, and that the same at our contained for left of the best of my supervision, and that the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices only the same at our contained for left devices on the left devices on the left devices of the left devices on the left devices of the left devices on the left devices on the left devices of the left devices on the left devices of the left devices on the left devices of the left devices	If answer i	s "no," list the	owners and tract des	criptions which h	ave actually be	en consolida	ited. (Use reverse side of
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SEC.  CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  R. E. FACKRELL  Position  DISTRICT ENGINEER  Company  AMOCO PRODUCTION COMPANY  Dote  JANUARY 30, 1980  22  I hereby certify that the well location how on this play was plotted from field the working interest.  Amoco operates Gallegos Canyon Unit with a 51.7% working interest.  APR  C. C.M.  Date Surveyed January (1) 1280  Registered fight month of the best of my certification of all all disprays on one of Land Surveyed January (1) 1280  Registered fight month of the some of the surveyed January (1) 1280  Registered fight month of the some of the surveyed January (1) 1280  Registered fight month of the some of the surveyed January (1) 1280  Registered fight month of the some of the surveyed January (1) 1280  Registered fight month of the some of the surveyed January (1) 1280  Registered fight month of the some of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the some of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed January (1) 1280  Registered fight month of the surveyed (1) 1280  Regis	forced-pool	ing, or otherwise)	or until a non-standa	rd unit, eliminatir	ng such interest	ts, has been	approved by the Commis-
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AMOCO PRODUCTION COMPANY Date  JANUARY 30, 1980  I hereby certify that the well location shown on this plat was plotted from field the supervision, and that the same is frue and correct to the best of my harmfedge and belief.  APR  APR  O.M.  Date Surveyed  January 1 1980  Registered registronal Eaglinger and/or Loid Eagreyor  APR  C.C.  Company  The first of the well location shown on this plat was plotted from field the same is frue and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and correct to the best of my harmfedge and belief.  Company  The first of carrier and carri		i		1		<del></del>	CT ENGINEER
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Certificate Non		1		i		and/or Land	Edgveyor On E
Certificate Non		1		i	1	911	LBNO TO
					(		
						1 \	W. MILT

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

GALLEGOS CANYON UNIT NO. 218E
900' FNL & 1080' FWL, SECTION 22, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

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

FORMATION	<u>DEPTH</u>	ELEVATION		
Ojo Alamo	266 <b>'</b>	5397		
Kirtland	326 <b>'</b>	5337 <b>'</b>		
Fruitland	1186 '	4477 '		
Pictured Cliffs	1466 '	4197 '		
Chacra (if present)	•	•		
Mesaverde Cliff House Point Lookout	3056 † 3946 †	2607 <b>'</b> 1717 <b>'</b>		
Gallup	5126 <b>'</b>	537 '		
Dakota	5986 <b>'</b>	-323 <b>'</b>		
TD	6500 <b>'</b>	-837 <b>'</b>		

Estimated KB elevation: 5663

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

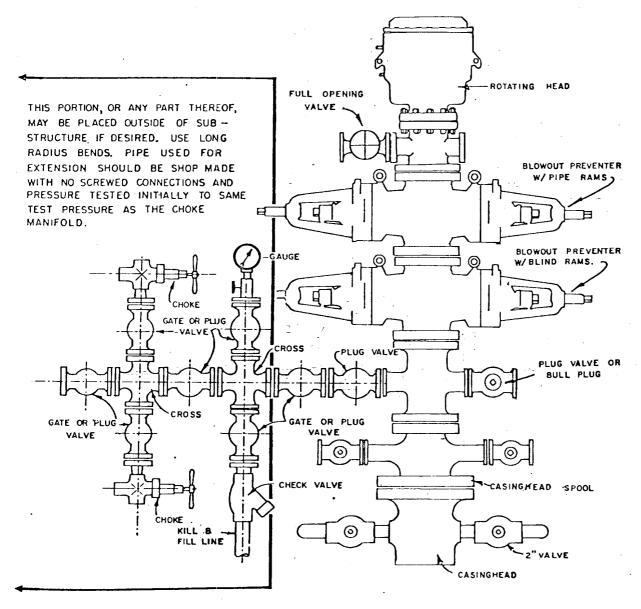
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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. 218E 900' FNL & 1080' FWL, SECTION 22, T28N, R12W SAN JUAN COUNTY, NEW MEXICO

- I. The attached topographic map shows the proposed route to the location.
- 2. It will be necessary to build an access road approximately one-fourth mile in length and 20 feet wide. Road to be bar ditched on two sides.
- 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. 229 (H-21-28-12) and a 300-barrel tank and facilities at Gallegos Canyon Unit No. 218 (A-22-28-12).
- 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.
- 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 3-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. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
- II. The general topography is a rolling plateau with sandstone outcrops. The soil is a sandy loam. Vegetation consists of snakeweed, rabbitbrush, Juniper, and native grasses.

Representatives of the U.S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was 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.

Date March 4, 1980

R W Schroeder District

. W. Schroeder, District Superintendent

