1a. TYPE OF WORK

b. TYPE OF WELL

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

Gas Co.

24.

 $\overline{23}$ 

10. DISTANCE FROM PROPOSED\*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest delg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON HIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

MELT

# SUBMIT IN TRIPLICATE\*

Form approved.

## UNITED STATES DEPARTMENT OF THE INTERIOR

rm 9-331 <b>C</b> May 1963)	UNITED STATES DEPARTMENT OF THE INTERIOR				(Other instructions on rever to side)		Budget Bureau No. 42-R1425.		
				)R			$\frac{30-045 = 24290}{5. \text{ Lease designation and serial No.}}$		
GEOLOGICAL SURVEY							SF-018109		
		_			DILIC DA	\CV	6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
APPLICATION	FOR PERMIT TO	J DRILL, L	PEEPEN	i, Ok i	LUG DA	100			
TYPE OF WORK	L 🗵	DEEPEN [	]	PL	.UG BACI	< □	7. UNIT AGREEMENT NAME		
TYPE OF WELL	- <b>L</b> —				MULTIPL		Gallegos Canyon Unit		
WELL GAR	LL X OTHER I	NFILL	ZONE	's X	ZONK		S. FARM OR LEASE NAME		
NAME OF OPERATOR	CONTON COMMANY						9. WELL NO.		
ANOCO PRODU	CTION COMPANY						151E		
	Drive, Farming	ton. New M	exico	87401			10. FIELD AND POOL, OR WILDCAT		
LOCATION OF WELL (Re	port location clearly and i	n accordance wit	h any Stat	te requirem	ents.*)		Basin Dakota		
At surface  850' FNL and 910' FWL, Section 21, T29N, R12W  At proposed prod. zone						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4, NW/4, Section 2],			
-	Same						T29N, R12W		
DISTANCE IN MILES A	ND DIRECTION FROM NEAR	ST TOWN OR POS	T OFFICE*				12. COUNTY OR PARISH 13. STATE		
5 miles Eas	st of Farmington	, New Mexi	.co				San Juan   New Mexico		
DISTANCE FROM PROPOS	SED*		16. NO.	OF ACRES I	N LEASE		OF ACRES ASSIGNED HIS WELL		
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest delg. unit line, if any)		850 <b>'</b>	43,146.62				N 320		
DISTANCE FROM PROPOSED LOCATION*			10. 110.0000 0			20. ROTA	RY OR CABLE TOOLS		
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2950			1	6500	)'		Rotary		
ELEVATIONS (Show whether DF, RT, GR, etc.)							22. APPROX. DATE WORK WILL START*		
5582' GL							As soon as permitted		
PROPOSED CASING AND CEMENTING PROGRAM									
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT	SETTING	DEPTH		QUANTITY OF CEMENT		
12-1/4"	8-5/8" (New)	24# K-	55 300' 315 s		315 s	x Class "B" w/2% CaCl2-circ			
7-7/8"	4-1/2" (New)	10.5# K-	55 6500' Stage		Stage	1-360 sx Class "B" 50:50			
						POZ 6	% gel, 2# med tuf plug/sx		
~;,			1				).8% FLA. Tail in w/ 100 sx		
					B" Neat-circ.				
S law N = B 1670 V approved by the NMOCC on					Stage	2-640 sx Class "B" 65:35			

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 El Paso Natural

Rehabilitation Plan from

owner is attached.

U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.

31 St PO ar C. S POZ, 6% gel, 2# med tuf plug/sx and 0.8% FLA. Tail in w/ 100 sx



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

B. E. Jackel	TITLE	District Engineer	February 19, 1980
(This space for Federal or State office use)		•	•
PERMIT NO.		APPROVAL DATE	APPROVED
APPROVED BY	TITLE		APR 1 7 1980
oh Frak			DISTRIC: ENGINEER

NMOCC

# OIL CONSERVATION DIVISION

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

# P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

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

AMOCO PRODUCTION COMPANY  GALLEGOS CANYON UNIT  151-E  Unit Letter Section Township Range County  D 21 29N 12W San Juan  Actual Footage Location of Well:  850 feet from the North line and 910 feet from the West line		<del></del>		T		Well No.
Date   Company   Date   Company   Date   Company   Date	Operator PRODI	UCTION COMPANY	<del>,</del>	GALLEGOS CANY	ron iint <b>r</b>	ł
Description of Wall 850 test from the North the and 910 test from the West test from the Spann Dakota Passation of Passation the Spann Dakota Basin Dakota Basin Dakota 320 Acres Spann Dakota 320 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachere marks on the plan 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 royally).  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)  If answer is "no." list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form in 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, climinating such interests, has been approved by the Commission.  RECEIVED  FEB 25 180  9101  Sec.  RECEIVED  Amoor operates Gallegos Canyon Unit with a PR 18180 of actual survey and phale?  B. F. FACKRELL  Position  B. F. FACKRELL  Date of the well facilities in the best of my borlego and begin the survey and the the same standard unit, all materials are and content to the best of my borlego and begin and the the same standard unit and the same of the same of the same facilities in the best of my borlego and begin and the the same of the same facilities in the best of my borlego and begin and the the same of the same facilities in the best of my borlego and begin and the same facilities in the best of my borlego and begin and begin and the the same of the same facilities in the best of my borlego and begin and begin and the same facilities in the best of my borlego and begin and begin and the the same of the same facilities in the best of my borlego and begin and begin placed on the s						
Amoco operates Galleges Canyon Unit with  Amoco operates Galleges Canyon Unit with  Sec.  Part from the North Into and 910 rest from the West Into Sec. Surface and Federal Processing of the Surface and Federal Processing on the plate of the Surface and Federal Processing on the plate of the Surface and Federal Processing on the plate of the Surface and Federal Processing on the plate of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Part of the Surface and Federal Processing on the Surface and Federal Processing Only Processing Company		i	•	<b>i</b> -	San Juan	
Description   Production   Description   D						
1. Outline the acreage dedicated to the subject well by colored peacif or hachure marks on the plut 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?	850	feet from the	orth line and	910 fe	et from the West	line
1. Outline the arrange 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 (Gallegos 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 approved by the Commission.  RECEIVED  FEB 25 [2]  U. S. GCOLOGICAL SURVEY FARMINGTON, N. M.  POSITION COMPANY  Sec.  Amoco operates Galleges Canyon Unit with a APR 18180 on this plate was planted from field when the some of the plant of the plant of the some of the plant of the some of the plant of the plant of the some of the plant of the pla	Ground Level Elev.					1
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?    Yes						
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?    Yes	2. If more th	an one lease is				
Hanswer 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.  RECEIVED  FEB 25 1000  U. S. GEOLOGICAL SURVEY PARMINGTON, N. M.  Sec.  NM 06237  Amoco operates Calleges Canyon Unit with APR 18 18 18  Subject well located on Fee Surface and Fed val DIST.  Mineral councership.  Date Surface and Fed val DIST.  Cettilitois No.  Cettificite No.  Cettificite No.  Cettificite No.	3. If more the	an one lease of decommunitization, u	nitization, force-pooli	ng. etc?		
RECEIVED  FEB 25 1000  U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.  O  Name  B. E. FACKRELL  Position  DISTRICT ENGINEER  Company  AMOCO PRODUCTION COMPANY  Date  JANUARY 10, 1980  Amoco operates Galleges Canyon Unit with a Silver on this plat was plotted from field of the some of the sound of the some of the sound of the some of the sound of	If answer this form in No allowab forced-pool	is "no," list the f necessary.) ple will be assign	owners and tract desc	riptions which have a	actually been consol	idated. (Use reverse side of ommunitization, unitization,
FEB 25 100  U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.  Sec.  Position District Engineer  NM 06237  Sec.  21  Amoco operates Gallegos Canyon Unit with a APR 18180 notes of actual surveys made by me or 51.7% working interest.  Subject well located on Fee Surface and Fed 21 DIST.  Mineral ownership.  I hereby certify that the information complete to the best of my howledge and belic?  B. F. Junious  Nome  B. E. FACKRELL  Position  DISTRICT ENGINEER  Company  AMOCO PRODUCTION COMPANY  Date  JANUARY 10, 1980  APR 18180 notes of actual surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys my supervision, and that the same of the surveys my s			REC	CEIVED		CERTIFICATION
SF078/09  U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.  Double Sec.  Norme  B. E. FACKRELL  Position  DISTRICT ENGINEER  Company  AMOCO PRODUCTION COMPANY  Date  JANUARY 10, 1980  21  Amoco operates Calleges Canyon Unit with a APRISION  Silver on this plat was plotted from tight of the well location shown on this plat was plotted from tight of the well of	.03	1	1		I here	by certify that the information con-
Sec.  U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.  Name  B. E. FACKRELL  Position DISTRICT ENGINEER  Company AMOCO PRODUCTION COMPANY Date JANUARY 10, 1980  21  Amoco operates Galleges Canyon Unit with a APR 18 18 19 10 notes of octual surveys made by me or under my supervision, and that the same 51.7% working interest.  Subject well located on Fee Surface and Federal DIST.  Mineral ownership.  Date Surface and Federal DIST.  Date Surface and Gregory Ingul Engineer and or Long Surveys  R. F. Jachull Name  B. E. FACKRELL  Position DISTRICT ENGINEER  Company AMOCO PRODUCTION COMPANY  APR 18 18 19 0 notes of octual surveys made by me or under my supervision, and that the same  Subject well located on Fee Surface and Federal DIST.  Date Surveys  Production  Trees and Federal DIST.  Continued to the best of my howledge and belief.  Free Surface and Federal DIST.  Continued to the best of my howledge and belief.  Free Surface and Federal DIST.  Continued to the surveys and the same of the best of my howledge and belief.	80	. 1	FEE	3 2 5 1989	tained	herein is true and complete to the
SF078/09  FARMINGTON, N. M.  Some B. E. FACKRELL  Position DISTRICT ENGINEER  Company AMOCO PRODUCTION COMPANY Date JANUARY 10, 1980  21  Amoco operates Gallegos Canyon Unit with a APR 18 1800 notes of actual surveys made by me or one of the surveys made by me or	9101	. !		1	best o	f my knowledge and beliC?
Name  B. E. FACKRELL  Position DISTRICT ENGINEER  Company AMOCO PRODUCTION COMPANY  Date JANUARY 10, 1980  Amoco operates Gallegos Canyon Unit with a S1.7% working interest.  Subject well located on Fee Surface and Federal DIST.  Mineral ownership.  Name  B. E. FACKRELL  Position DISTRICT ENGINEER  Company AMOCO PRODUCTION COMPANY  Date JANUARY 10, 1980  APR 18 18 18 18 18 18 18 18 18 18 18 18 18		' 1	U. S. GEO FARMI	NGTON N M	$\mathbb{R}^{2}$	E. Jackull
NM 06237  Sec.  21  Amoco operates Gallegos Canyon Unit with a Spanish of actual surveys made by me or under my supervision, and that the same 51.7% working interest.  Subject well located on Fee Surface and Federal DIST.  Mineral ownership.  Double District Engineer  Subject well location silven on this plot was plotted from field on the same of actual surveys made by me or under my supervision, and that the same of the s	SF078/	09 1		NGTON, IN. IVI.	Nome	
DISTRICT ENGINEER  Company AMOCO PRODUCTION COMPANY  Date JANUARY 10, 1980  Amoco operates Gallegos Canyon Unit with a APR 18 180 nows of actual surveys made by me or under my supervision, and that the same 51.7% working interest.  Subject well located on Fee Surface and Fedural DIST.  Mineral ownership.  Date Surveys and belief.  District ENGINEER  Company AMOCO PRODUCTION COMPANY  Date January 10, 1980  APR 18 180 nows of actual surveys made by me or under my supervision, and that the same ONL CON.  ONL CON.  Date Surveys and belief.  Certificate No.  Certificate No.	<b> </b>	+	<del> </del>		<b>-  </b>   ⋅ B.	E. FACKRELL
Sec.  Company AMOCO PRODUCTION COMPANY Date JANUARY 10, 1980  Amoco operates Galleges Canyon Unit with a Silven on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the surveys made by me or under my supervision, and that the surveys made by me or under my supervision, and that the surveys made by me or under my supervision, and that the surveys made by me or under my surveys made by me or under my supervision, and that the surveys made by me or under my supervision, and that the surveys made by me or under my surveys made by me or under my supervision, and that the surveys made by me or under my supervision, and that the surveys made by me or under my supervision.		1		1	81	
Amoco operates Gallegos Canyon Unit with a Surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the surveys made by me or under my supervision, and that the same of the survey my supervision and that the same of the surveys my supervision a		1		⊙ !	DI	STRICT ENGINEER
Sec.  Date  JANUARY 10, 1980  Amoco operates Gallegos Canyon Unit with a Shewn on this plat was plotted from field shown on this plat was plotted from field on none of actual surveys made by me or uncer my supervision, and that the same OIL CON. ON is true and correct to the best of my fowledge and belief.  Subject well located on Fee Surface and Federal DIST. 3  Date Surveys made by me or uncer my supervision, and that the same OIL CON. ON is true and correct to the best of my fowledge and belief.  Date Surveys made by me or uncer my supervision, and that the same OIL CON. ON is true and correct to the best of my fowledge and belief.  Date Surveys made by me or uncer my supervision, and that the same OIL CON. ON is true and correct to the best of my fowledge and belief.  Con Latin 5  Date Surveys made by me or uncer my supervision, and that the same OIL CON. ON is true and correct to the best of my fowledge and belief.  Con Latin 5  The same of the best of my fowledge and belief.  Con Latin 5  Certificate No.	1		, m, o.	(227		
Amoco operates Gallegos Canyon Unit with a APRI 18180  Amoco operates Gallegos Canyon Unit with a APRI 18180  Amoco operates Gallegos Canyon Unit with a APRI 18180  Subject well located on Fee Surface and Federal DIST.  Mineral ownership.  Date Surveys Table 1800  Redisted Rolfsystensel Engineer and or Long Surveys and belief.  Pred 1818 Jr.  Certificate No.	.	i 1	I NM U	0237	ii	OCO FRODUCTION CONFANT
Amoco operates Gallegos Canyon Unit with a APRI 13100 noise of actual surveys made by me or under my supervision, and that the same of the surface and Federal DIST.  Subject well located on Fee Surface and Federal DIST.  Mineral ownership.  Date Surveys made by me or under my supervision, and that the same of my supervision, and that the same of my supervision and correct to the best of my sowledge and belief.  Date Surveys and correct to the best of my sowledge and belief.  Date Surveys and correct to the best of my sowledge and belief.  Can LAHO Surveys and correct to the best of my sowledge and belief.  Can LAHO Surveys and correct to the best of my sowledge and belief.  Can LAHO Surveys and correct to the best of my sowledge and belief.  Can LAHO Surveys and correct to the best of my sowledge and belief.  Can LAHO Surveys and correct to the best of my sowledge and belief.  Can LAHO Surveys and correct to the best of my sowledge and belief.		9	. *	İ		NUARY 10, 1980
Date Surveyed =   Thua ry   3 180  Registed From Surveyor and or Land Surveyor and or Land Surveyor Certificate No.	5: Su	1.7% working : bject well lo	Gallegos Canyon interest. cated on Fee Sur	Unit with a A	5hown	on this plat was plotted from field of actual surveys made by me or
Date Surveyed = 180  Registered Professional Engineer and/or Land Surveyor  Free State of Certificate No.	Mi	neral ownersh	ip	<del>-</del>	= - +	
				         	an Registe	verent a 1980 vary 13 1980 red Protests bong Engineer
					<del></del>   }	

Lease No.: G.C.	V,; Well Name an	d No.: GCV. 151 E				
Location: 250 FNL	910 FML 1	d No.: GCV. 151 E , Sec. 21, T. 29 N., R. 12 W.				
Omica Part	., 60.	intends to drill a well on surface  The lessee/operator ion work if the well is a producer:				
	Maintain access road and provide adequate drainage to road.					
	No Reshape and reseed any area not needed for maintenance of the pump and support facilities.					
Other requirements:	Keep opte locked	ATAIL TIMES & PUTUP				
	will be completed when th					
X Yes // No	surrounding topography.	dry, then filled to conform to				
/X Yes - / No	Water bars will be const	ructed as deemed necessary.				
// Yes /No	Site will require reshaping to conform to surrounding topography.					
/X/ Yes / / No	Entire disturbed area will be reseeded. If yes, the following seed mixture will be used.					
·	BLM specs.					
	Access road will be closed, rehabilitated and reseeded using the same seed mixture as above.					
X Yes // No	Access road will remain for surface owner's use.					
Yes // No	Water bars will be const	cructed on the access road as deemed				
Other requirements:		·				
Surface Owner:		Operator/Lessee:				
Name: Saw Jaun Address: Ph Rh City: Farming T State: Telephone:	mild life Fed.	Name: Amoro PROD Co. Address: SOI Air POTT DV. City: Farming Ton State: N.M X740/ Telephone: 325-884/ Date:				
I CERTIFY that abov Cultural Resource F		acceptable to me. I also waive an intensive				

(Surface owner's signature)

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. 151E 850' FNL & 910' FWL, SECTION 21, 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:

FORMATIO	<u>NC</u>	<u>DEPTH</u>	ELEVATION
Ojo Alamo		451'	5144 '
Kirtlan <b>d</b>		511'	5084 1
Fruitland		991'	4604 •
Pictured Cliffs		1521	4074 •
Chacra (if present)			1
Mesaverd <b>e</b>	Cliff House Point Lookout	3091 <b>'</b> 3891 <b>'</b>	2504 ' 1704 '
Gallup		5181'	414 *
Dakota		6041'	-446 <b>'</b>
TD		65001	-905 t

Estimated KB elevation: 5595

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

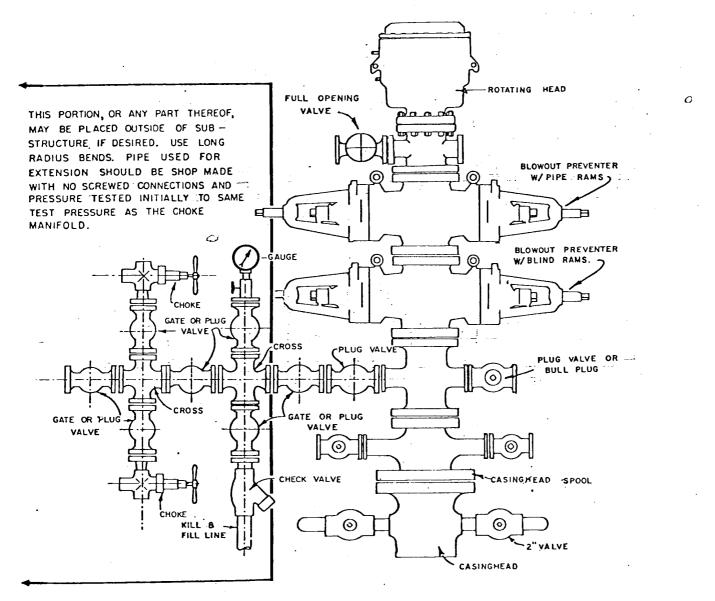
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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.

- 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

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. 151E 850' FNL & 910' FWL, SECTION 21, T29N, R12W 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 one and one-tenth mile of road and build three-tenths mile of road 20 feet wide, bar ditched on upper 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. 151, NE/4 Section 21, T29N, R12W.
- 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 clay-type soil, rocky and sandy, with vegetation consisting of a few cedar trees and native grasses. The location is on gentle slope of hill.  $_{\mathcal{O}}$

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

<u>Certification</u>: 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 <u>AMOCO PRODUCTION COMPANY</u> and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date February 6, 1980 St. Schroell

R. W. Schroeder, District Superintendent

