SUBMIT IN TRIPLICATE®

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

UNITED STATES

DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

5. Leaner

her instructions on	Budget Bureau No. 42-R142C
reverse side)	30-045-2425
	5. LEASE DESIGNATION AND SERIAL NO.

	GEOLO	SICAL SURVE	Ξ <b>Y</b>			SF-078106		
APPLICATION	I FOR PERMIT T	O DRILL, D	DEEPE	N, OR PLUG B	ACK	G. IF INDIAN, ALLOTTEE OR TRIBE NAME		
DRILL DEEPEN DEEPEN PLUG BACK					7. UNIT AGHERMENT NAME Gallegos Canyon Unit			
b. TYPE OF WELL	в []	INFILL		GLE MULTIPE	·	S. FARM OR LEASE NAME		
WELL WI	ELL X OTHER	INTILL	201	NE K. ZONE				
	UCTION COMPANY			•	41	9. WELL NO.		
3. ADDRESS OF OPERATOR					÷	196E		
501 Airport	t Drive, Farmin	gton, New M	lexico	87401	• • • • • • • • • • • • • • • • • • • •	10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (Re	eport location clearly and	in accordance wit	h any Si	ate requirements.	<u>į</u> .	Basin Dakota 11. smc., T., E., M., OR BLK.		
950' FNL and 950' FWL, Section 19, T28N, R12W						NW/4, NW/4, Section 19, T28N, R12W		
14. DISTANCE IN MILES A	Same	EST TOWN OR POS	TOFFICE	*		12. COUNTY OR PARISH   13. STATE		
7 miles Sou	theast of Farmi	ington, New	Mexi	со		San Juan New Mexico		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		16. NO.	OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED THIS WELL		
PROPERTY OR LEASE L' (Also to nearest drig	INE, FT.	950'		43,146.62		$\omega$ 305.28		
18. DISTANCE FROM PROPO TO NEAREST WELL, DE	OSED LOCATION®	00001	19. FR	POSED DEPTH	20. ROTA	ARY OR CABLE TOOLS		
OR APPLIED FOR, ON THE	S LEASE, FT.	3200	<u> </u>	6500'	<u> </u>	Rotary  1 22. APPROX. DATE WORK WILL START*		
21. ELEVATIONS (Show who		•				As soon as permitted		
5678 GI		POPOSED CASI	NG AND	CEMENTING PROGRA	· ·	1 AS SOON AS PERMITTEE		
				SETTING DEPTH		QUANTITY OF CEMENT		
12-1/4"	8-5/8" (New)	WEIGHT PERF		300'	315 sz	x Class "B" Neat - circ		
7-7/8"	8-5/8" (New) 4-1/2" (New)	10.5# K-		6500 <b>'</b>	Stage	1-360 sx Class "B" 50:50		
	4 1/2 (1104)				POZ 6	% gel, 2# med tuf plug/sx,		
		ļ	I		and 0	.8% FLA. Tail in w/ 100 sx		
This applicatio	nito drill an I	nfill Basi	n Dak	ota well is	Class	"B" Neat-circ. 2-640 sx Class "B" 65:35		
pursuant to Ord	ler No. R-1670-V	approved	dor S	e NMUCL on	POZ A	6% gel, 2# med tuf plug/s		
May 22, 1979. of the Natural	Coc Policy Act	under Orde	r No.	R-1670-V.	and 0	.8% FLA. Tail in w/ 100 sx		
of the Natural The gas from th	ic well is dedi	cated to E	l Pas	o Natural	Class	"B" Neat-circ.		
The gas from the	ils well is dedi		12 100	. 4		22218		
	A SECRETARIO SE SECULIA DE LA CONTRACTORIO DE CONTRACTORIO DE CONTRACTORIO DE CONTRACTORIO DE CONTRACTORIO DE	ECEIVI						
	1 R	ECEIV,			-	S S Land Man		
		MAR 1 0 13	30	1		MAR 3 1 1980		
	<b>₹</b>	MAK - 0	15	<b>,</b>		OIL CON. COM.		
	\ \frac{3}{3}	S. GEOLOGICAL	M. M.	" <b>\</b>		DIST. 3		
	<i>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </i>	S. GEOLOGICAL FARMINGTON.	-					
zone. If proposal is to	drill or deepen directions	proposal is to dee ally, give pertinen	pen or p t data o	lug back, give data on p n subsurface locations a	resent pro nd measur	ductive zone and proposed new productive ed and true vertical depths. Give blowout		
preventer program, if an 24.	y.	. 1						
	.E. Jachul	<u> Т</u>	TLE	District Engir	neer	March 6, 1980		
(This space for Fede	ral or State office use)							
PERMIT NO.				APPROVAL DATE		A I'm programme and a second		
I DIVINITA NO.						APPROVED		
APPROVED BY		TI	TLE			MAD O O 1000		
CONDITIONS OF APPROV					10	MAR 2 8 1980		
Null - 52.3	ak 3nd	•			67	70/85cm		

1500M

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO LHERGY AND MINERALS DEPARTMENT

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

Form C-107 keyised 10-1-78

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

Cperator			Lease			,	Well No.
AMOCO PRODUCTION COMPANY			GALLEGOS CANYON UNIT				196-E
Unit Letter	Section	Township	Range		County		
D	19	28N		L2W	San	Juan	
Actual Footage Loca		North line and	950	feet	from the	West	line
Ground Level Elev.	Producing For		Pool			1	ited Acreage:
5678	Dakot	a	Basi	n Dakota		W 30	)5.28 Acres
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> <li>If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli-</li> </ol>							
dated by c	ommunitization, u	nitization, force-poolir swer is "yes," type of	ig. etc?				
XX Yes	II an	iswei is yes, type of		Jativit			
		owners and tract descr	riptions w	vhich have ac	tually bee	en consolidated. (	Use reverse side of
	necessary.)						
		ed to the well until all or until a non-standard					
sion.	ing, or comercines,		,			,	;
		Pri 1 Tar.				CERT	IFICATION
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36.34		1	1			1	hat the information con- rue and complete to the
6	.	Amoco ope	rates (	Gallegos Ca	nyon	best of my knowle	
950'	)			% working	1	3 < 1	-111
	ŀ	interest.	i			Name	achil
<b>L</b> — — — —	+		1	<del></del>	_= -	B. E. FACKR	ELL
•	SF-078106		1		1	Position	
36.32	. !	7		. · -		DISTRICT EN	GINEER
30.32			1			Company	CTION COMPANY
	i		1			Date APIOCO PRODU	CITON COMPANI
•	Se	c. {	1			FEBRUARY 6,	1980
	1	. 19	i				that the well location
			1	AND THE STREET	证明解	4.	that the well location it was plotted from field
36.32	i		1			4 A	surveys made by me or
	1		1		الله الله الله	under my supervi	sion, and that the same
	l l		i	Ann Ì	23149	I is the and corr	sion, and that the same ect to the best of my lief.
	vajo				CON. C	M. knowledge and be	fief.
I=	:149-11ND-8476		1	OIL	DIST.		
			1			Date Surveyed	
36.30	1	1	1			Ja marv 28	LA 1980
	<u>.</u> .	•	i			Registered Professi	onal Engineer
	i		I		- 1	and/or Land Survey	
	I		ŀ		1	Fred B. Ke	rr.Jr.
						Certificate Nor B.	
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### SUPPLEMENTAL INFORMATION TO FORM 9-331C

GALLEGOS CANYON UNIT NO. 196E
950' FNL & 950' FWL, SECTION 19, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

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

FORMATIO	ON	DEPTH	ELEVATION
Ojo Alamo		254	5437 <b>'</b>
Kirtland		314 '	5377 <b>'</b>
Fruitland		1038 '	4653 '
Pictured Cl	liffs	1388 '	4303 '
Chacra (if	present)	t	Ť
Mesaverde	Cliff House Point Lookout	2924 <b>'</b> 3854 <b>'</b>	2767 <b>'</b> 1837 <b>'</b>
Gallup		5034 '	657 <b>'</b>
Dakota		5954 *	-263 <b>'</b>
TD		6500 ¹	-809 <b>'</b>

Estimated KB elevation: 5691

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

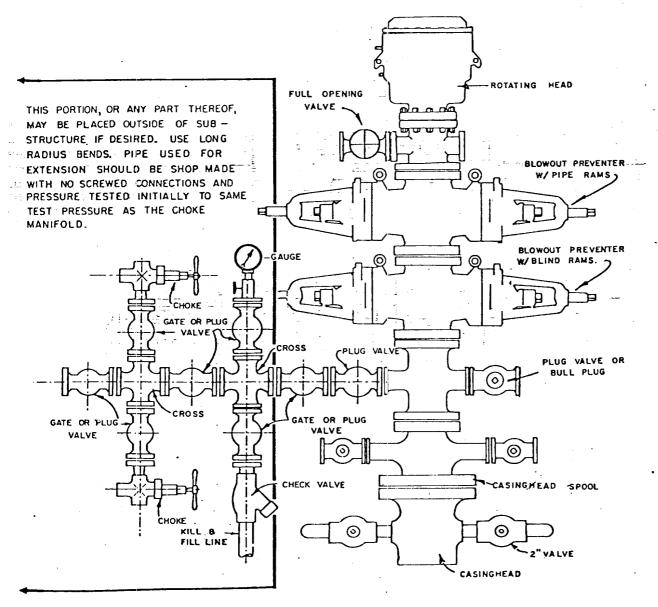
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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

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. 196E 950' FNL & 950' FWL, SECTION 19, T28N, R12W SAN JUAN COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will be necessary to build an access road approximately three-tenths of a mile in length and 20 feet wide. Road will 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. 196 (M-19-28-12) and Gallegos Canyon Unit No. 239 (H-24-28-13).
- 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.
- 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 6-foot cut will be made on south 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 broken slope with sandstone outcrops. The soil is sandy, clayey loam. Vegetation consists of junipers, snakeweed, saltbush, rabbitbrush, prickly pear, 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

<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 \_\_\_\_\_March 4, 1980

R. W. Schroeder, District Superintendent

