# SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

#### (Other instructions on reverse side) UNITED STATES

DEPARTMENT OF THE INTERIOR

5. LEARE DESIGNATION AND NESTAL NO.

٠.	GEOLO	GICAL SURVEY			SF-0781	9 ·
APPLICATIO	N FOR PERMIT	O DRILL, DEE	PEN, OR PLUG E	BACK	G. IF INDIAN, ALLOTTEE	OR THIBE NAME
1a. TYPE OF WORK DR	ILL 🗷	DEEPEN [	PLUG BA	CK 🗆 🥫	7. UNIT AGREEMENT NA Gallegos Can	at Tag
oir 🔲 o	VELL OTHER	INFILL	SONE MULTII	re	8. FARM OR LEASE NAM	
2. NAME OF OPERATOR						2 -
	DUCTION COMPANY				9. WELL NO.	
3. ADDRESS OF OPERATOR	ct Drive, Farmin	gton New Mey	tco 87/01		221E 10. FIELD AND POOL, OF	R WILDCAT
				<del></del>	Basin Dal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface  855' FSL and 950' FEL, Section 31, T29N, R12W  At proposed prod. zone					11. SEC., T., E., M., OR B AND SURVEY OR AR SE/4, SE/4, SC	ection 31,
14	Same AND DIRECTION FROM NEAD	TRUE TOWN OR DORT OF	TIOP\$		T29N, R.	
					San Juan	New Mexico
15. DISTANCE FROM PROP	Southeast of Fa		NO. OF ACRES IN LEASE		OF ACRES ASSIGNED	New Mexico
LOCATION TO NEARES PROPERTY OR LEASE	T Line, FT.	855'	43,146.62	тот	HIS WELL 320	74 
(Also to nearest drl 18. DISTANCE FROM PROD	POSED LOCATION®	1	PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING, COMPLETED,	2050'	6500 <b>'</b>		Rotary	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)			·	22. APPROX. DATE WO	RE WILL START*
5661' G	L	•			As soon as p	ermitted
23.	P	ROPOSED CASING A	ND CEMENTING PROGR.	AM		•
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
12-1/4"	8-5/8" (New)	24# K-55	300'		x Class "B" Neat - circ	
7-7/8"	4-1/2" (New)	10.5# K−55	6500'		1-360 sx Class gel, 2# med t	
pursuant to Oro May 22, 1979. of the Natural	on to drill an I der No. R-1670-V This well will Gas Policy Act his well is dedi	approved by qualify under under Order N	the NMOCC on Section 103 o. R-1670-V.	Stage POZ, 6 and 0	"B" Neat-circ. 2-640 sx Class 5% gel, 2# med .8% FLA. Tail i "B" Neat-circ.	"B" 65:35 tuf plug/s: n w/ 100 s:
IN ABOVE SPACE DESCRIBI 2010e. If proposal is to	e proposed program: If y drill or deepen directiona	proposal is to deepen o lly, give pertinent dat	or plug back, give data of a on subsurface locations a	MAF	6 1880 Company and proposed and the South State of the South Sout	d nev productive 18. "Give blowout
preventer program, if an					\ .3	<del></del> _
SIGNED	E Jackell	TITLE _	District Engir	eer	DATE Marc	h 6, 1980
(This space for Fede	ral or State office use)			-		
PERMIT NO.			APPROVAL DATE		<u> </u>	
APPROVED BY	AL, IF ANY:	TITLE			DATE	
					•	
ok Fred			NMOCO			

## OIL CONSERVATION DIVISION

#### STATE OF NEW MEXICO LHERGY ALS MINERALS DEPARTMENT

# SANTA FE, NEW MEXICO 87501

P. O. BOX 2088 Form C-102 kerised 10-1-78

All distances must be from the cuter houndaries of the Section Well No. Operator 221-E GALLEGOS CANYON UNIT AMOCO PRODUCTION COMPANY County Section Township Unit Letter San Juan 1.2W 29N 31 Actual Footage Location of Well: leet from the East 950 South line feet from the line and Dedicated Acreage: Producing Formation Ground Level Elev. Basin Dakota 320 Acres 5661 Dakota 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? If answer is "yes;" type of consolidation Unitization (Gallegos Canyon Unit) No XX Yes 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 herein is true and complete to the best of my knowledge and belief. E. FACKRELL Position DISTRICT ENGINEER Company AMOCO PRODUCTION COMPANY <u>JANUARY 22, 1980</u> Sec. -⊙ 31 Amoco operates Gallegos s plotted from field Canyon Unit with a 51.7% SF-078109 working interest. 9501 Janua Registere Certificat 3950 . 800 660 ... 1320 1650 1980 26 40 2000 1500

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

# GALLEGOS CANYON UNIT NO. 221E 855' FSL & 950' FEL, SECTION 31, T29N, R12W SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary	surface :	formation	is	the	Tertiary Nacimiento	
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Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATION	DEPTH	ELEVATION
Ojo Alamo	398 <b>'</b>	5276 •
Kirtland	458 •	5216 •
Fruitland	1248 •	4426 •
Pictured Cliffs	1533 •	4141 •
Chacra (if present)	•	•
Mesaverde Cliff House Point Lookout	3133 · 3993 ·	2541 • 1681 •
Gallup	5203 •	471 •
Dakota	6083 •	-409 ·
TD	6500 •	-826 •

1

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

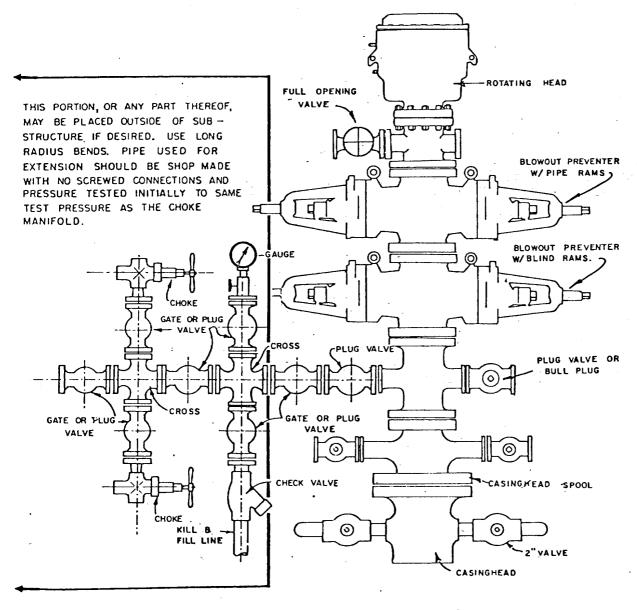
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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 ituid 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. 221E 855' FSL & 950' FEL, SECTION 31, T29N, 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 900 feet 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. 213 (J-8-28-12); and at Gallegos Canyon Unit No. 221 (G-31-29-12), there is a 300-barrel tank and facilities.
- 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 4-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; vegetation consists of juniper trees, yucca, mountain mahogany, and sagebrush.

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.

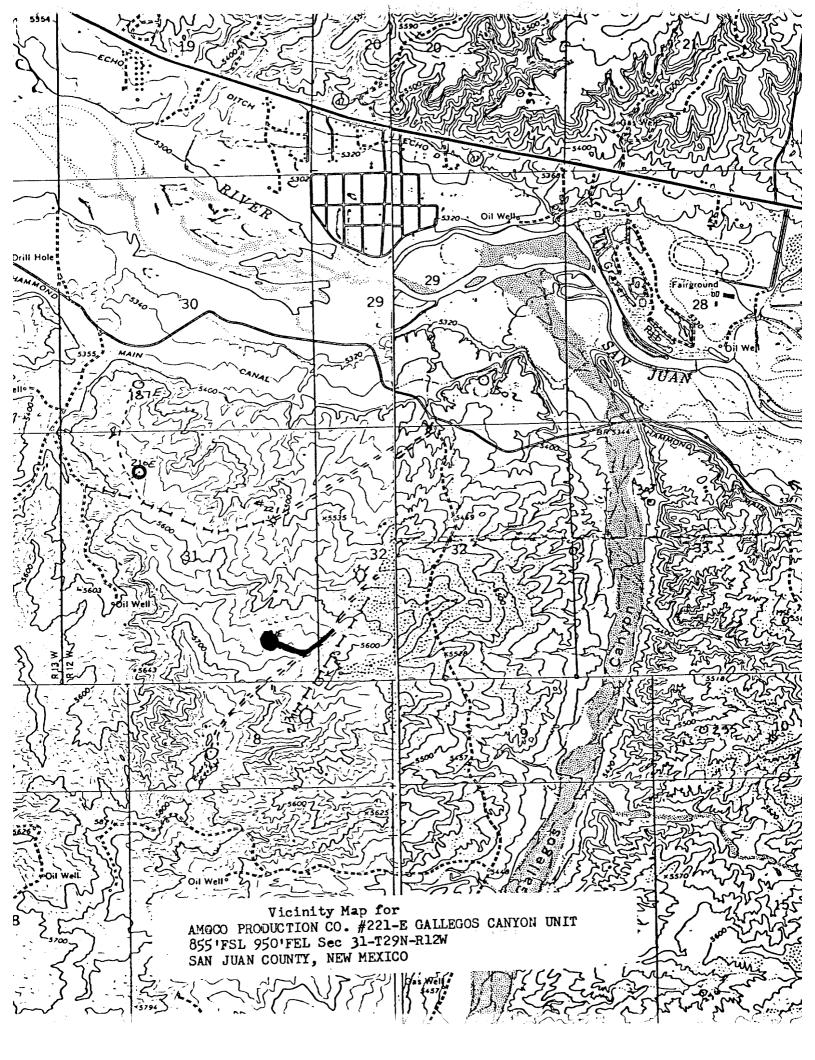
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164

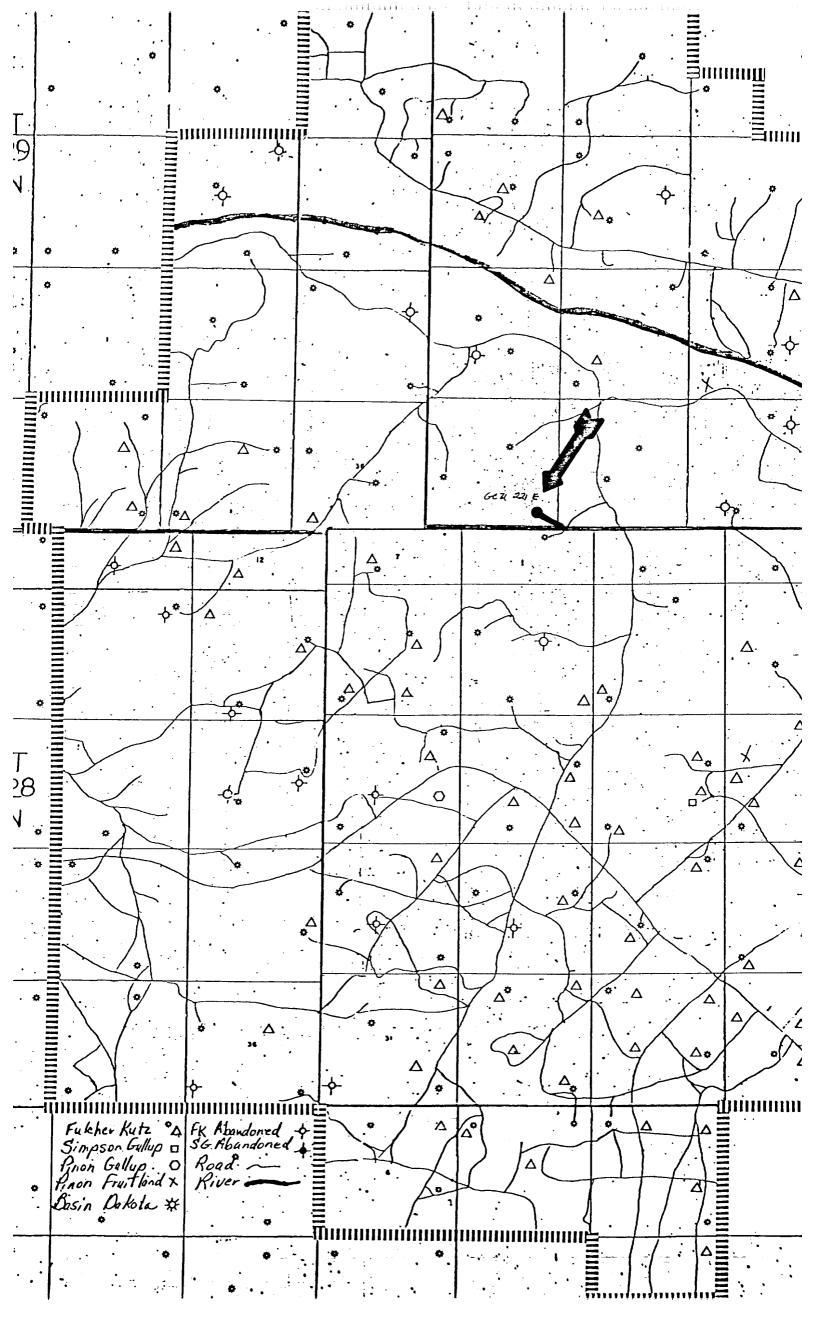
Address: 501 Airport Drive, Farmington, NM 87401

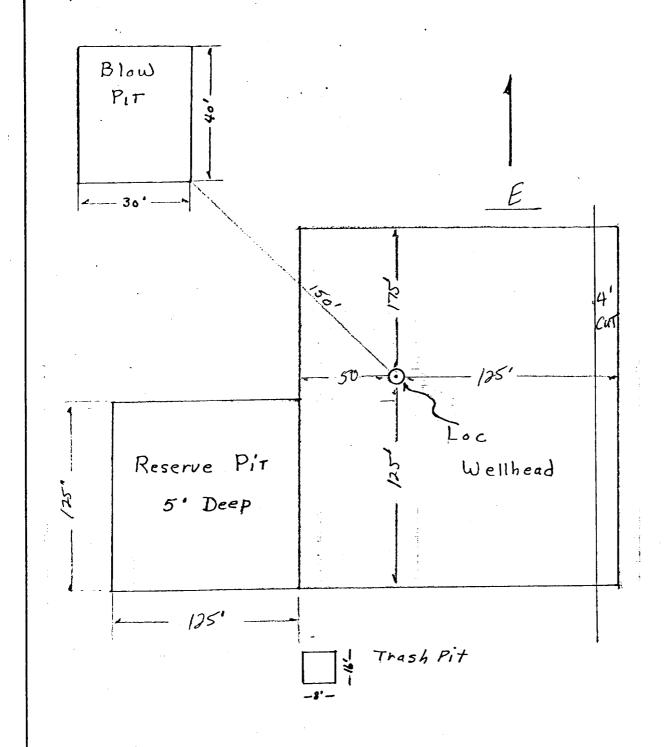
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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 Superintendent







Approximately 1.2 Acres

Amoco Production Company	SCALE: NONE
Oalloans Canyon Unit No. 221 F	DRG. NO.