SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

Form 9-337 C (May 1953)

(Other instructions reverse side)

EO S	
	30-045-24553
	5. LEASE DESIGNATION AND SERIAL NO.

UNITE	:D:	51 A 1 C	25
DEPARTMENT	OF	THE	INTERIOR

									: ·
GEOLOGICAL SURVEY								-0781	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							6. IF INDIAN, AL	LOTIAN	OR TRUBE NAME
1a. TYPE OF WORK	L 🔀	DEEPEN [UG BAC	- 1	7. UNIT AGESES Gallegos		
b. TYPE OF WELL OIL GAS WELL WE	orner I	NFILL	81N 201	CLE K	MULTIPLI ZONE	· 🗆	S. FARM OR LEA		
2. NAME OF OPERATOR							9. WELL NO.		
AMOCO PRODU	CTION COMPANY							1 ርሳሙ	3.3
C. ADDRESS OF OPERATOR				. 07/01			10. FIELD AND	152E	R WILDCAT
501 Airport	Drive, Farming	ton, New M	exico	87401				n Da	
4. LOCATION OF WELL (Re) At surface	port location clearly and i	n accordance wit	n any Si	ate required	ients. /		11. SEC., T., R.,		
790' FSL an	d 1840' FEL, Sec	ction 21, 1	29N,	R12W			AND SURVE	Y OR AR	REA
At proposed prod. zone						Ş.			Section 21 R12W
/	Same	now mourty on post	. OSEICE	*			12. COUNTY OR		
14, DISTANCE IN MILES A		•				21	San Jua		New Mexico
6 miles Eas	t of Farmington	, New Mexic	16 80	. OF ACRES	IN LEASE		OF ACRES ASSIGNA		Their Herezeo
10. DISTANCE FROM PROPO- LOCATION TO NEAREST		7001	201			TO T:	HIS WELL	320	
PROPERTY OR LEASE L. (Also to nearest drig	, unit line, it any)	790 '	13 pc	2561.		20. ROTA	RY OR CABLE TOO		
18. DISTANCE FROM PROPOSED LOCATION* TO NEALEST WELL, DRILLING, COMPLETED, 03 APPLIED FOR, ON THIS LEASE, FT. 250					5	Rotary 22. APPROX. DATE WORK WILL START*			
21. ELEVATIONS (Show whe								* * 2	
5431' GL							As soon	as I	permitted
23.	P	ROPOSED CASI	NG ANI	CEMENTI	NG PROGRA	.M -		<u> </u>	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	oor	SETTIN	G DZPTH	1 1	QUANTITY		
$\frac{12-1/4}{1}$	8-5/8" (New)	24# K-			00'	315 sz	x Class "B	'' VI/	2% CaCl2-circ
10 Ell V EE 6500' State					Stage	J-360 sx	Class	s "B" 50:50	
DRILLING OFERATIONS AUTHORITY AND AND THIS action is subject to administrative POZ SUBJECT TO COMPLIANT AUTHORITY AND AND AUTHORITY AUTHORITY AND AUTHORITY AUTHORITY AUTHORITY AUTHORITY AUTHORITY AU									tuf plug/sx,
	3 : · · · · · ·								in w/ 100 sx
This application to drill all lilling basic barota were									
purposed to Order No. R-1670-V approved by the NHOCC on Stage							2-040 SA 49 1 - 2#	ULAS	tuf plug/ex
Mary 22 1079 This well will quality under Section 103 102, 0% get; 24 med car pro-							in w/100 sx		
of the Natural Gas Policy Act under Order No. R-1670-V. and 0.8% FI The gas from this well is dedicated to El Paso Natural									
The gas from the	nis well is dedi	icated to	El Pa	iso Natu	raı			0110	
Gas Co.		٦				DV To	ol set at	4	77
RE	CEIVED					(ED	-1/	14	65/1A\

AUG 2 2 1980

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

JAMES F. SIMS DISTRICT ENGINEER

IN ABOVE SPACE DESCRIBS PROCESED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive to about brach producted received the proposed to be droped of program and productive and proposed new productive while. If proposed is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowest preventer program, if any.

Present a product of the		. *
R. A. Nouney TITLE District Engineer	DATE August	21, 1980
(This space for Federal of State office use)		
PERMIT NOAPPROVAL DATE	 	· .
APPROVED BY	 DATE	

of 3ml

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

660

P. O. BOX 2088

Fore C-102 kevised 10-1-78

SANTA FL. NEW MEXICO 87501 LHERGY MIS MINERALS DEPARTMENT All distances must be from the cuter houndaries of the Section Well No. Cherator 152-E GALLEGOS CANYON UNIT AMOCO PRODUCTION COMPANY Township Unit Letter Section San Juan 12W 29N 0 Actual Footage Location of Well: 1840 East South 790 feet from the line line and feet from the Dedicated Acreage: Producing Formation Ground Level Elev. Basin Dakota 320 Dakota Acres 5431 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? Unitization (Gallegos Canyon Unit) If answer is "yes," type of consolidation _ No X 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. Amoco operates Gallegos Canyon Unit with a 51.7% working interest. B. E. FACKRELL RECEIVED Position DISTRICT ENGINEER AUG 25 1685 AMOCO PRODUCTION COMPANY .980 I her of certify that the well location 21 hown on this plan was plotted from field riches of actual surveys made by me or SF-078109 under my supervision, and that the same is true and correct to the best of my knowledge and belief. 0 Date Surveyed 1840' BOILAIDS Janua 🌠 NM 03526 and/or 1 6

> Fre Certifico 3950

1000

500

2000

1500

SUPPLEMENTAL INFORMATION TO FORM 9-331C

GALLEGOS CANYON UNIT NO. 152E 790' FSL & 1840' FEL, SECTION 21, T29N, R12W SAN JUAN COUNTY, NEW MEXICO

The	geologic	name	of	the	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	450 '	4994
Kirtland	510 '	4934 '
Fruitland	1120 '	4324 '
Pictured Cliffs	1370 '	4074
Chacra (if present)		
Mesaverde Cliff House Point Lookout	2930 ' 3750 '	2514 · 1694 ·
Gallup	5025	419 1
Dakota	5890 '	- 446 1
TD	6500 '	-1056 •

Estimated	KB	elevation:	5444
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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

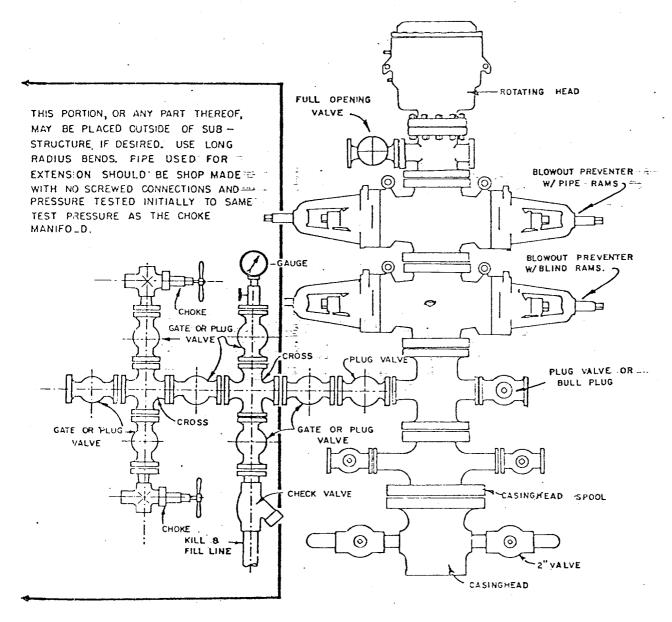
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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. Onsco 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. 152E
790' FSL & 1840' FEL, SECTION 21, 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 1000 feet in length and 20 feet wide. Road to be bar ditched on two sides.
- 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. 152, one-half mile west.
- 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. If any liquids remain,

 they will be hauled away prior to back filling.
- 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 6-foot cut will be made on west side.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as detailed on Rehabilitation Plan with surface owner.
- II. The general topography is a canyon bottom with southerly drainage and gravel outcrops. Soil is a sandy, clayey loam with vegetation consisting of juniper, shadscale, snakeweed, sagebrush, rabbitbrush, and native grasses.

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 inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

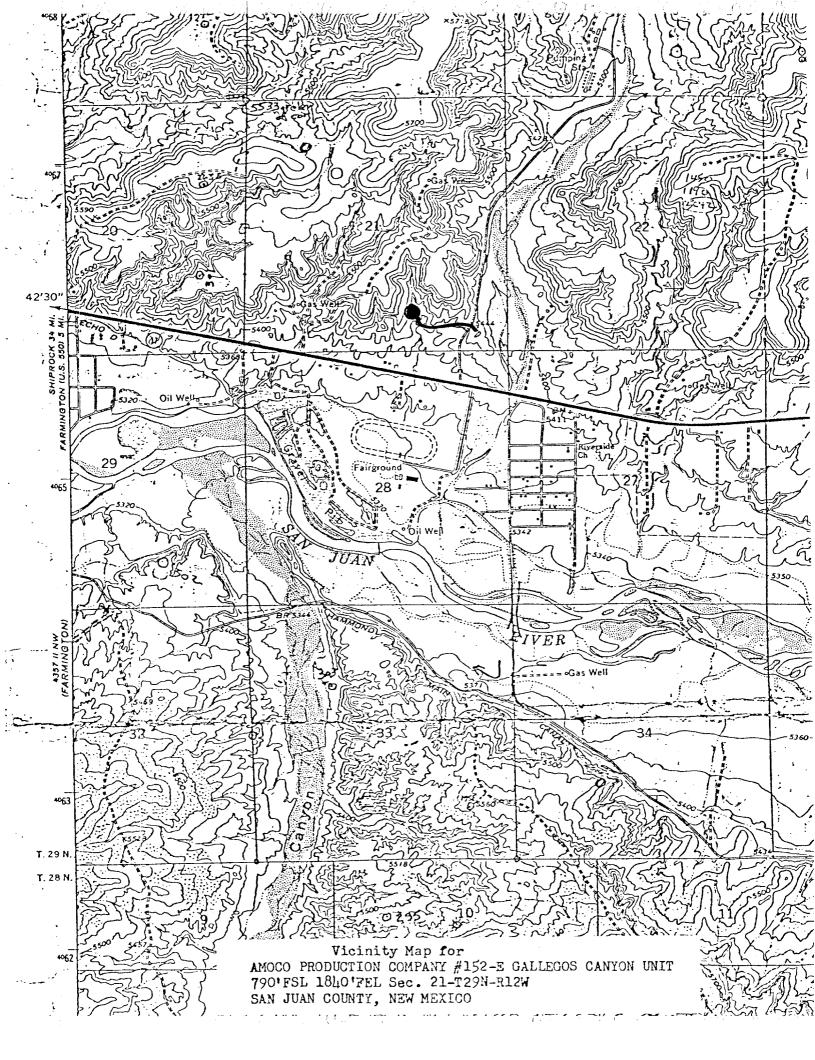
12. Operator's Representative: R. W. Schroeder

Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

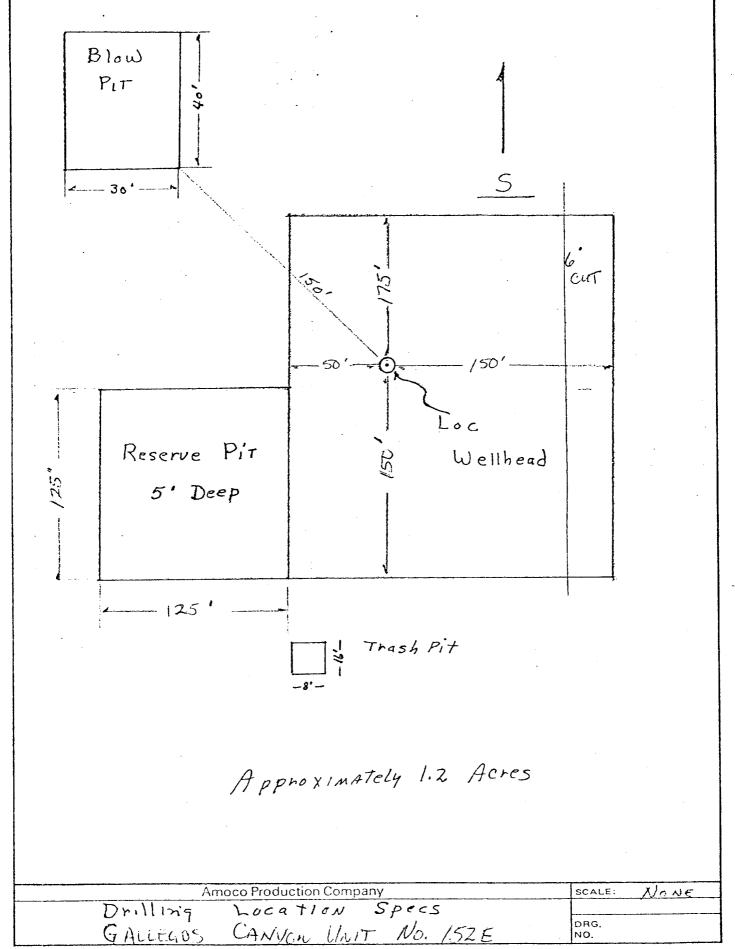
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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 ____August 19, 1980

R. W. Schroeder, District Superintendent







Well Name an	d No.: Gallegos Canyon Unit No. 152E					
case No.: <u>Gallegos Canyon Unit;</u> Well Name an Location: 790' FSL, 1840 FEL	, Sec. 21_, T. 29_N., R. 12_W.					
·	intends to drill a well on surface					
AMOCO PRODUCTION COMPANY	. The lessee/operator					
owned by Farmington Municipal Schools agrees to complete the following rehabilitat	ion 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: Access road is for dril be down E.P.N.G. pipeline R.O.W.	ling & completion only, permanent access will					
The following work will be completed when th	ne well is abandoned:					
YXY Yes // No Pit will be fenced until surrounding topography.	l dry, then filled to conform to					
$\sqrt{\chi \chi}$ Yes - $\sqrt{}$ No Water bars will be cons	tructed as deemed necessary.					
/XX Yes // No Site will require resha	ping to conform to surrounding topography.					
$/\overline{XX}$ Yes $/$ No Entire disturbed area w seed mixture will be us	Entire disturbed area will be resceded. If yes, the following seed mixture will be used.					
Seed mixture #2						
OCCU MIXOUTO WE						
/XX Yes // No Access road will be clo the same seed mixture a	sed, rehabilitated and reseeded using above.					
/// Yes /XX No Access road will remain	for surface owner's use.					
/XX/ Yes // No Water bars will be cons						
Other requirements: If school is built on property, well site will be fenced & locked.						
Surface Owner:	Operator/Lessee:					
	Name: Amoco Production Company					
Name: Farmington Municipal School Dist. #3						
Macross. 200 Harmington						
City: Earmington						
State: New Mexico 87401	Telephone: (505) 325-8841					
Telephone: 325-3531	Date: January 18, 1980					
Date: May 5, 1980						
I CERTIFY that above rehabilitation plan is acceptable to me. I also waive an intensive Cultural Resource Field Inventory.						

(Surface owner's signature)

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