30-045-24250

UNITE				
DEPARTMENT	OF	THE	INTERIOF	₹

DEPLOTMENT OF THE INTERIOR						
DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.
GEOLOGICAL SURVEY						SF-078926 6. 18 INDIAN, ALLOTTEE OR TRIBE NAME
APPLICATION FOR PERMIT	O DRILL, D	DEEPEN	, OR	PLUG BA	4CK	G. 18 INDIAN, ALLOUTER OR TRUE NAME
In Type of Work				LUG BAC	_	7. UNIT AGREEMENT NAME
DRILL 🗷	DEEPEN [,	LUU DAG	` []	Gallegos Canyon Unit
WELL CE	INFILL	81NGL 20 N 10	ĸ [x]	ZONE ZONE	<u> </u>	S. FARM OR LEASE NAME
". NAME OF OPERATOR						9. WELL NO.
AMOCO PRODUCTION COMPANY						172E
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmin	orton. New N	lexic o	8740	1		10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and	In accordance wit	h any State	require	ments.*)		Basin Dakot a
At surface						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
${\cal N}$ 960' FSL and 1530' FWL, S	ection 25,	T29N, 1	KT3M			SE/4, SW/4, Section 25,
At proposed prod. zone Same						T29N, R13W
14. DISTANCE IN MILES AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*				12. COUNTY OR PARISH 13. STATE
3 miles Southeast of Farm	ington, New	Mexico)			San Juan New Mexico
15. DISTANCE FROM PROPUSED* LOCATION TO NEAREST		16. No. 0	F ACRES	IN LEASE	17. NO.	OF ACRES ASSIGNED
PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	960 '	i .	3,146			5 320
10 PROPERTY PROME PROPOSED LOCATION*		19. PROPO			20. ROT	ARY OR CABLE TOOLS
OR APPLIED FOR, ON THIS LEASE, FT.	3050 '	İ	6500	· ·		Rotary 22. APPROX. DATE WORK WILL START*
21. ELEVATIONS (Show whether DF, RT, GR, etc.)						
56 69' GL						As soon as permitted
23.	PROPOSED CASE	NG AND C	EMENT	ING PROGRA	.M	
SIZE OF HOLE SIZE OF CASING	WEIGHT PER F	00 T		NG DEPTH		QUANTITY OF CEMENT
12-1/4" 8-5/8" (New)	2411 10 33				$\frac{315}{5}$ s	x Class "B" w/2% CaCl2-circ 1-360 sx Class "B" 50:50
7-7/8" 4-1/2" (New)	10.5# K-	55	6.	500'	Stage	% gel, 2# med tuf plug/sx,
POZ (POZ 0	.8% FLA. Tail in w/ 100 sp	
l	 -	. D-1	+	11 ic		"B" Neat-circ.
This application to diffi an initial but the MMOCC on Stage					2-640 sx Class "B" 65:35	
nursuant to Order No. R-16/U-V approved by the NHOCC on Brage				6% gel, 2# med tuf plug/sx		
				.8% FLA. Tail in w/ 100 sx		
of the Natural Gas Policy Act under Order No. R-1670-V. and O The gas from this well is dedicated to El Paso Natural Class				"B" Neat-circ.		
Gas Co.				Iai		New Winner
Rehabilitation Plan from surf	ace owner is	s attac	hed.			
RECEIVE	D				i	M132 4 1980
						1094/300

FEB 25 1980

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

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 or real depths. Give blowout preventer program, if any. 24.

District Engineer

February 19, 1980

(This space for Federal or State office use) APPROVAL DATE PERMIT NO. APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

APPROVED AS AMENDED

of End

STATE OF NEW MEXICO ENERGY MIS MINERALS DIFFARTMENT

Edward HANA

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

All distances must be from the cuter houndaries of the Section Well No. Operator 172-E GALLEGOS CANYON UNIT AMOCO PETROLEUM COMPANY Section Township Unit Letter San Juan 29N 13W 25 Actual Footage Location of Well: 1530 West South feet from the line and feet from the Dedicated Acreage: Ground Level Elev. Producing Formation **5** 320 Basin Dakota 5669 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 <u>Unitization (Gallegos Canyon Unit)</u> 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 Commis-CERTIFICATION RECEIVED I hereby certify that the information con-FEB \$5 1980 tained herein is true and complete to the O U. S. GEOLOGICAL SURVEY FARMINGTON, N. M. B. E. FACKRELL DISTRICT ENGINEER Amoco operates Gallegos Canyon Unit with a 51.7% working interest. AMOCO PRODUCTION COMPANY Subject well located on Fee Surface and Federal Mineral JANUARY 15, 1980 Ownership. Sec. 25 078926 SF 1530 Date Surveyed 0 January Fred Certificate N

1000

1500

Location: 960' FS	L & 1530' FWL	, Se	c. 25, T. 29 N., R. 13W W.			
			deall a wall on curface			
AMOCO PRODUCTION CO	MPANY	intends to	drill a well on surface The lessee/operator			
owned by Tom	when the lessee/operator are to complete the following rehabilitation work if the well is a producer:					
agrees to complete t	he following rehabili		· ·			
			quate drainage to road.			
\overline{X} Yes \overline{X} No	Reshape and reseed an pump and support faci	y area not needd lities.	ed for maintenance of the			
Other requirements:						
The following work w	ill be completed when	the well is ab	andoned:			
, , , , , , , , , , , , , , , , , , ,	Pit will be fenced un	til dry then f	illed to conform to			
	surrounding topograph					
	agricomatile cobeerah.	· •	•			
<u></u>	Water bars will be co	-				
/X/ Yes // No	Site will require res	haping to confo	rm to surrounding topography.			
$\sqrt{\chi}$ Yes $\sqrt{}$ No	Entire disturbed area seed mixture will be	will be reseed used.	led. If yes, the following			
•	Native Grasses, Cre	sted Wheat, and	Gramma			
/X/ Yes // No	Access road will be o	closed, rehabili as above.	itated and reseeded using			
$//$ Yes $/\sqrt{\chi}$ No	Access road will rema	ain for surface	owner's use.			
/ / Yes /X/ No	Water bars will be co	onstructed on th	ne access road as deemed			
<u>/_</u> / 165 <u>r</u> /	necessary.					
Other requirements:						
Surface Owner:		Operator/Le	ssee:			
Tom Bola	ack.	Name:	Amoco Production Company			
Name:	· · · · · · · · · · · · · · · · · · ·	Address:				
	Rt. #3 South	City:				
City: Farming State: New Mex	ico 87401	State:	New Mexico 87401			
Crare New Mex		Telephone:	(505) 325-8841			
Telephone: 325-427	7		January 18, 1980			

(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. 172E 960' FSL & 1530' FWL, SECTION 25, T29N, R13W SAN JUAN COUNTY, NEW MEXICO

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

FORMATION	DEPTH	ELEVATION
Ojo Alamo	621 '	5061'
Kirtland	681 '	5001'
Fruitland	1031'	4 651 '
Pictured Cliffs	1521 '	4161 '
Chacra (if present)	•	1
Mesaverde Cliff House Point Lookout	3051' 4011'	2631 ' 1671
Gallup	5191'	491 '
Dakota	605 6 '	-374 ¹
TD	6500 '	-818

Estimated KB elevation: 5682

0

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

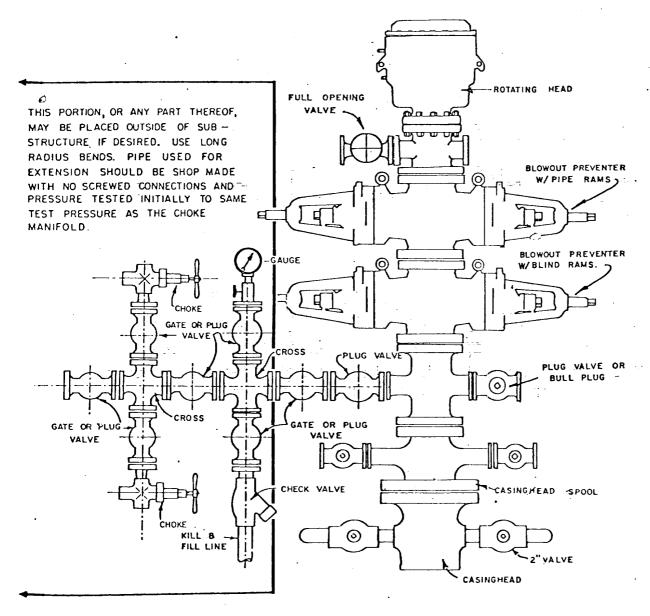
Completion design will be based on these logs. No cores or drill.stem tests will be taken.

Operations will commence when permitted and last approximately $\underline{3}$ 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

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. 172E 960' FSL & 1530' FWL, SECTION 25, T29N, RI3W SAN JUAN COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. An access road approximately six-tenths mile in length and 20 feet wide will be built, 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 vicinity map.
- 4. There is a 380-barrel tank and facilities located at Gallegos Canyon Unit Well No. 172, SE/4 Section 25, T29N, RI3W.
- 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 West 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 detailed on Rehabilitation Plan with surface owner.
- II. The general topography is a sandy soil, with uneven terrain. Vegetation consists of sagebrush and native grasses, with some cedar trees.

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

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 February 6, 1980

R. W. Schroeder, District Superintendent

