SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

30 010 -74761

(Other instructions on reverse side)

Car inny	UNIT DEPARTMENT	ED STATES		reverse slo			15-24291	
		GICAL SURV		1011		5. LEASE DESIGNATION SF-079		
				VI OD DIVIO D	A 614	6. IF INDIAN, ALLOTTE	· · · · · · · · · · · · · · · · · · ·	
APPLICATION	I FOR PERMIT T	O DRILL, I)EEPE	N, OR PLUG B	ACK	,		
1a. TYPE OF WORK		DEEDEN [7	DI LIG RAC	-k 🗀	7. UNIT AGREEMENT	NAM E	
DRILL DEEPEN DEEPEN PLUG BACK						Gallegos Car	nyon Unit	
b. TYPE OF WELL	ELL X OTHER	rue 🗌	8. FARM OR LEASE NA	ME				
2. NAME OF OPERATOR	ELL COMER		ZO	NE K ZONE	· — - · · - · · · - ·	-		
AMOCO PRODU	CTION COMPANY					9. WELL NO.		
3. ADDRESS OF OPERATOR						145E		
501 Airport	Drive, Farming	ton, New Mo	exico	87401		10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (R	eport location clearly and	in accordance wi	h any S	tate requirements.*)	-	Basin Dakota		
At surface 790' FNL an	d 990' FWL, Sec	tion 26, T	29N,	R1.2W		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4, NW/4, Section 26,		
At proposed prod. zon	•							
	Same					T29N, 1		
	AND DIRECTION FROM NEAD					12. COUNTY OF PARIS		
	theast of Farmi	ngton, New			1.15	San Juan	New Mexico	
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r		16. NO	OF ACRES IN LEASE		OF ACRES ASSIGNED		
PROPERTY OR LEASE I (Also to nearest drlg	LINE, FT. g. unit line, if any)	840'		43,146.62		N 320		
18. DISTANCE FROM PROF TO NEAREST WELL, D	RILLING, COMPLETED,	23/01	19. PR	OPOSED DEPTH	20. ROTAL	RY OR CABLE TOOLS		
OR APPLIED FOR, ON TH	IS LEASE, FT.	3148'	<u> </u>	6500'	<u> </u>	Rotary	ORK WILL STARTS	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					As soon as		
5461' GL						1 113 30011 43	Permittee	
23.	r	PROPOSED CASI	NG AND	CEMENTING PROGRA	A M			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEM		
12-1/4"	8-5/8" (New)	24# K-	55	300 '			<u>/2% CaCl2 c</u> irc	
7-7/8"	4-1/2" (New)	10.5# K-	55	6500 '		: 1-360 sx Cla		
						% gel, 2# med		
		1					in w/ 100 sx	
This application	on to drill an I	nfill Basi	n Dak	ota well is		B Neat-circ.		
pursuant to Ord	der No. R-1670-V	/ approved	by th	e NMOCC on	_		ss "B" 65:35 POZ	
						el, 2# med tuf plug/sx and FLA. Tail in w/ 100 sx Class		
llull						reat-circ.	W/ 100 SX Class	
The gas from the Gas.	nis well is dedi	cated to E	l Pas	o Natural	D N	leat-circ,	•	
Rehabilitation	Plan from surfa	ace owner i	s att	ached.	_	23 332		
	Γ				A STATE OF THE STA	THE STATE OF THE S		
		RECE	TVF	FD	1	1	•	
			V L			non.		
FEB 25 1980						20181900	· '	
	.]			į į	A /	PK - COM.		
	!	U. S. GEOLOG	ICAL SL	IRVEY	3 01	PR 18 1980 L CON. COM. L DIST. 3		
AN ARCHE ARLAN DUCCHIS	E PROPOSED PROGRAM: IT drill or deepen directions	FARMINGT:	ON, N.	M. Jug back, rive data on p	resent Kod	luctive zone and propo	sed new productive	
		ally, give pertiner	t data o	n subsurface locations a	nd measure	d and true vertical der	oths. Give blowout	
preventer program, if ar	ıy.							
^{24.}	5 1.0	00		District Frair	00*	Fohr	cuary 19, 1980	
SIGNED 3	. E. Fachu	<u> </u>	TLE	District Engin	ee1	DATE	ualy 19, 1900	

(This space for Federal or State office use)

TITLE .

APPROVAL DATE ___ PERMIT NO. _

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

oh Fruh

SIGNED _

NMOCC

TITLE _

APR 1 7,1980

DISTAIL ENGINEER

OIL CONSERVATION DIVISION

CO. P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

STATE OF NEW MEXICO-LHERGY AND MINERALS DEPARTMENT

All distances must be from the cuter boundaries of the Section

Grerator				Lease			Well No.
AMOCO PRODUCTION COMPANY				GALLEGOS CANYON UNIT			145-E
Unit Letter D	Section 26	Township 29N	i	Range 12W	County	ın Juan	
Actual Footage Loc	<u> </u>						
790	feet from the	North	77776 0410	990	feet from th	. West	line
Ground Level Elev. 5461	Producing Fo Dakota	rmation	P∞1	Basin Dako	ta		Dedicated Acreage: 320 Acres
	1	ated to the	subject well by	colored pen	cil or hachi	ire marks on t	
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 							
Mated by control X Yes If answer this form in the No allowel	No If a sign is "no," list the f necessary.)	owners and	force-pooling. et yes;' type of con d tract description	solidation ons which have	Unitizate unitiz	ation (Gal been consolid	legos Canyon Unit) ated. (Use reverse side of amunitization, unitization, approved by the Commis-
sion.	ing, or otherwise	yor until a	Hon-standard Girl	, criminating	3 Such Titles	1	CERTIFICATION
990' SF-07990		FEB u. s. geo	EIVED 25 1989 OGICAL SURVEY IGTON, N. M.	 ⊙ Fee	· · · · · ·	best of n	certify that the information con- erein is true and complete to the my knowledge and belief. FACKRELL
						Position DISTRIC Company AMOCO I	PRODUCTION COMPANY RY 6, 1980
	(Sec.			e de la companya de l	FEDRUAL	XI 0, 1900
wor Sub	co operates (king interest ject well loc ership.	:.			/ (A)	PR Margor	ryed
0 330 040	90 1320 1630 19	80 2310 26	40 2000	1500 1000	800	Registered and/or Lar	No TED R WEER 18.

Lease No.:	66	Well Name and No.: GCU 145 = Sec. 16, T. 29 N., R. 13 W.				
Location:_	10701	$= \frac{810 F_{A} - L}{810 F_{A} - L}, \text{ Sec. } \frac{16}{16}, \text{ T. } \frac{39}{29} \text{ N.}, \text{ R.} \frac{1}{16} \text{ W.}$				
owned by agrees to	m/3 complete	intends to drill a well on surface Orak The lessee/operator the following rehabilitation work if the well is a producer:				
		Maintain access road and provide adequate drainage to road.				
<u></u> ∕ Yes		Reshape and reseed any area not needed for maintenance of the pump and support facilities.				
Other requ	irements:					
The follow	ing work	will be completed when the well is abandoned:				
 ✓ Yes		Pit will be fenced until dry, then filled to conform to surrounding topography.				
$1\sqrt{X}$ Yes	- <u>/ </u>	Water bars will be constructed as deemed necessary.				
// Yes	₩/ No	Site will require reshaping to conform to surrounding topography.				
<u>/</u> ₹/ Yes∙	/_/ No	Entire disturbed area will be reseeded. If yes, the following seed mixture will be used.				
		Bim specs				
/\overline{\sqrt{1}} Yes	<u>/</u> / No	Access road will be closed, rehabilitated and reseeded using the same sé2d mixture as above.				
/_/ Yes	<u>/_/</u> No	Access road will remain for surface owner's use.				
/X/ Yes	/_/ No	Water bars will be constructed on the access road as deemed necessary.				
Other requ	irements	:				
Surface Ow	mer:	Operator/Lessee:				
State:	773 B	DOJK Name: #MCC PACE C Address: 501 AIR PORT Dr. Name: #M PART Dr. City: **Farming Tin M.M. XM - \$700/ State: NM 32-3460 Telephone: 325-8842 Date: Date:				
I CERTIFY Cultural F	that abo	ove rehabilitation plan is acceptable to me. I also waive an intensive Field Inventory.				

(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. 145E 790' FNL & 990' FWL, SECTION 26, T29N, R12W SAN JUAN COUNTY, NEW MEXICO

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

FORMATION		DEPTH	ELEVATION
Ojo Alamo		333 '	5141 '
Kirtland		393 '	5081 '
Fruitlan d		973 '	4501 '.
Pictured Cliffs		1493 '	3981 '
Chacra (if present)		2593 •	2881 '
Mesaverde Cliff	Hous e Lookout	3056 ' 3773 '	2418 ' 1701 '
Gallup		5113 •	361 '
Dakot a	•	5973 •	-49 9 •
TD	00	6500 1	-679 '

Estimated KB elevation: 5474

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

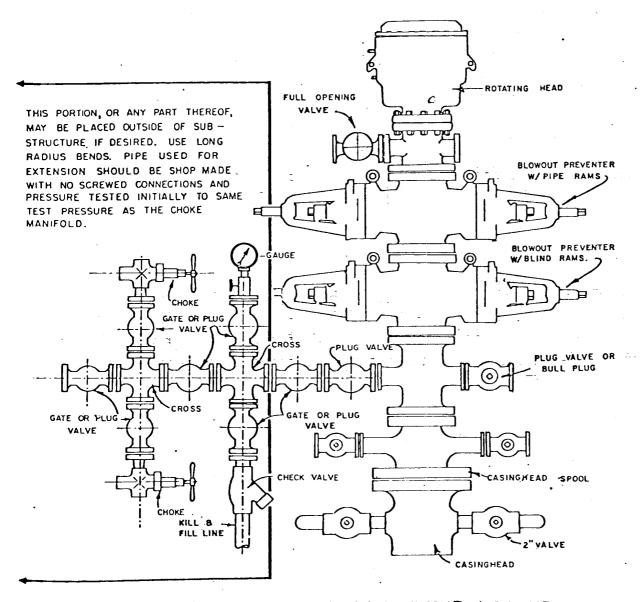
Completion design will be based on these logs. No cores or drill stem . tests will be taken.

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.

GALLEGOS CANYON UNIT NO. 145E 790' FNL & 990' FWL, SECTION 26, 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 build an access road to the location 600 feet long, 20 feet wide, and will be bar ditched on one 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. 145, NE/4 Section 26, T29N, R12W.
- 5. Water will be hauled from the San Juan River a distance of about 3 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 a sandy and boggy low land covered with a dense growth of tamarask.

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 II. 1980

R.'W. Schroeder, District Superintendent

