Form 3160-3 (November 1983) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

A ECESTEN

	BUREAU	OF THE	GEMENT		·		5. Lease designation and essial no. SF-080614	
APPLICATIO	ON FOR PERMI	T TO DRILL,	DEEPEN	I, OR	PLUG I	BACK	6. IF INDIAN, ALLOTTER OR TRIBE HAME	
1a. TYPE OF WORK	RILL 🖸	DEEPEN		PI	UG BA	CK 🗆	7. UMIT AGREEMENT NAME	
D. TIPE OF WELL OIL WELL	GAB OTHER	-	BING! Zone		MULTIS Zone	PLE [Galleges Canyon Unit 8. FARM OR LEASE NAME	
2. NAME OF OPERATOR								
Amoco Produc	tion Company	9. WELL NO.						
3. ADDRESS OF OPERATOR								
501 Airport 4. LOCATION OF WELL (Drive, Farming	ton, NM_ 874	01		- 1		10. FIELD AND POOL, OR WILDCAT	
			th any Stat	e requirem	ente.*)		Basin Dakota	
8	70' FNL x 1030	' FEL	125.55				11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. 20	one Same		÷.				0	
14. DISTANCE IN MILES	AND DIRECTION HOOVE IN	E. antique			- 5344		NE/NE Sec. 13, T29N, R13	
	t of Farmingto		IT OFFICE.				12. COUNTY OR PARISH 13. STATE	
15. DISTANCE FROM PROF			16. NO. OF ACRES IN LEASE 17. NO.			17. NO	OF ACRES ASSIGNED:	
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)			1200			100	N 320	
	DRILLING, COMPLETED,		1 1			20. RO	TARY OR CABLE TOOLS	
OR APPLIED FOR, ON THIS LEASE, FT. 1/2 mile N			6180' ATIONS AUTHORIZED ARE			<u> </u>	Rotary	
21. ELEVATIONS (Show wi	5505 GR	ZORIFCL TO CO	Marianur	WITH AT	TACHED		As soon as possible	
23.		"GENERAL REOU PROPOSED CASI	MC AND CI	MENTIN	G PROGRA	M I	his action is subject to administrative	
SIEE OF HOLE	SIZE OF CASING	WEIGHT PER P		SETTING		J 8	ppeal pursuant to 30 CFR 290.	
12-1/4"	8-5/8"	24#. K-5	5	300	•		c.f. Class B	
7-7/8"							19 c.f. Class B	

Amoco proposes to drill the above well to further develop the Basin Dakota reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. Copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design. Upon completion the well site will be cleaned and the reserve pit filled and leveled. The gas from this well is dedicated to El Paso Natural Gas under Contract No. 56742.

IN ARRIVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposed is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout proventer program, if any.

Original Signed By		
SICKED B. D. Shaw	Administrative Super	VISOT PATAPPROVED
/This space for Federal or State office use)	APPROVAL DATE	AS AMENDED
APPROPRIO MY	**************************************	MAR 0 8 1985 Ys/. J. Stan McKee
as .	NMOCC CON DI	AREA MANAGER FAHMINGTON RESOURCE AREA
•	*See Instructions On Reverse Side 3	The state of the s

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO EMERGY AND MINERALS DEPARTMENT

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

Form C-107 Revised 10-1-78

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

Operator			Lease Well No.				
AMOCO PRODUCTION COMPANY				GALLEGOS CANYON UNIT			102E
Unit Letter				nge	County		
A	13	29N		13W	San	Juan	
Actual Footage Los 870		Mandh	3.00	0.		.	
Ground Level Eleva		North line and	1030	O' fee	t from the	East	line Dedicated Acreage:
5505	Dakota	1.		Basin Dakota	ì		320 Acres
	<u>1</u>	ted to the subject w	<u> </u>			marks on	
3. If more th	and royalty). an one lease of decommunitization, t		dedicat ling. etc	ted to the well,		nterests o	thereof (both as to working of all owners been consoli-
this form i No allowa	if necessary.) ble will be assign	ed to the well until al	ll intere	sts have been	consolidat	ed (by co	nmunitization, unitization, n approved by the Commis-
							CERTIFICATION
·	 O			1030)'	origin	certify that the information con- erein is true and complete to the my knowledge and belief. al Signed By D. Shaw - Shaw
	Sec.			1 1 1	_	Company Amoco	Production Company
	t .			1	H		12/15/84
		13 C 13				shown or notes of under my is true	certify that the well location in this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my ge and belief.
	 		MAR IL CO DIS	12 1985 N. DIV		Registered and Lan Fred Certificate	nber 27, 198h Professional Engineer d'Surveyor. B. Kerry Jr.
	Scal	e: 1"=1000'				3950	Achine Marine

GALLEGOS CANYON UNIT #102E 870' FNL, 1030' FEL, Sec. 13, T29N-R13W SAN JUAN COUNTY, NM

MULTI-POINT SURFACE USE PLAN

- 1. The attached topographic map shows the proposed route to the location.
- 2. An access road approximately 700' in length will be built.

 If conditions merit it, additional surface materials such as gravel and/or surface fill will be applied to the proposed road and/or location.
- 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 well and facilities approximately 1/2 mile North.
- 5. Water will be hauled from San Juan River.
- 6. No construction materials will be hauled in for this location.
- 7. A 125'by 125' pit, fenced on 3 sides, will be built on location to hold all drilling waste and upon completion of the well, the 4th side will be fenced. Drilling mud will be allowed to evaporate. Sanitary facilities and a steel mesh portable trash container will remain on location throughout drilling operations and will then be trucked to a designated disposal area.
- 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.
- 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 instructed by the Bureau of Land Management.
- 11. The general topography is slopingwith sandy loam, cedar, sage brush, and native grasses.
- 12. Representatives of Bureau of Land Management, Amoco Production Co., Jicarilla Archaeological Services, Farmington, inspected the site.

Operator's Representative:

W. J. Holcomb

Office Phone: (505) 325-8841

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: _	12/20/84	W. J. Holcomb BAS
~		W. J. Holcomb - District Manager

PE/

GALLEGOS CANYON UNIT NO. 102E SUPPLEMENTAL INFORMATION TO FORM 9-331C

The geological name of the surface formation is the <u>tertiary naciemento</u>.

Estimated tops of important potential hydrocarbon bearing formations:

FORMATION	<u>DEPTH</u>	ELEVATION
Ojo Alamo	210'	5305'
Fruitland	1048'	4470'
Pictured Cliffs	1368'	4150'
Chacra		
Cliffhouse	2968'	2550 '
Menefee	3118'	2400'
Point Lookout	3853'	1665'
Gallup	5094'	4241
Dakota	5961'	-443¹
Morrison Bluff		
Summerville		
Todilto		
Entrada		
Navajo		
Wingate		
Chinle		
DeChelly		
Hermosa		
Molas		
Mississippian Leadville TD	6180'	-662'

Estimated KB elevation: _5518 .

Drilling fluid to TD will be a low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing.

DIL, SP, GR - 4500-TD CDL, CNL, GR- 4500-TD

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

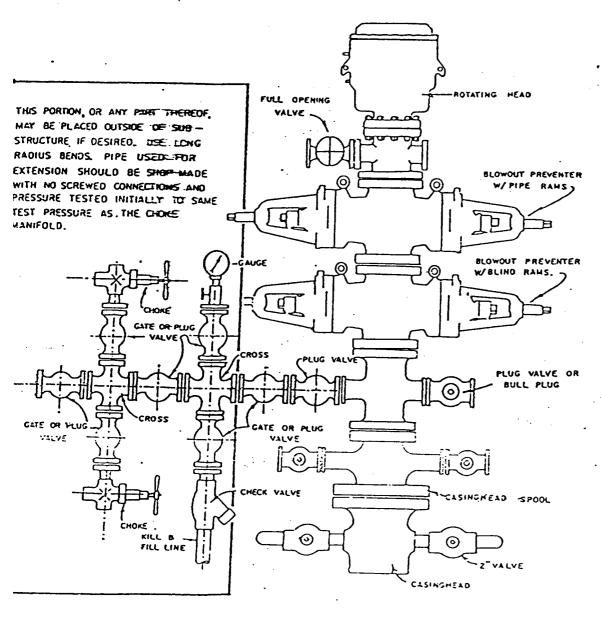
Operations will commence when permitted and last approximately 10 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

		7.32 ·	<u> </u>	8Z		
RISK	Atmoco 7 Johnson 6.C. C # 1	Solvison Ellas S.C. Coule Ellas States	1 Haco 18 604 + 96 €	8 Hnoco Anoco 604 & 604	19 Hnoco 502 # 110	Hmoco Get #110E
13 W	Hino co	Picheer Smith # 1	Anoco 13	Hmoco # 108E	Amoco Amoco Gry#106	Amoco + 262
	Tenreco Irvin Com	Roneer Farmington A	Amoco Roberts G.C. 04/	Figner Afrona Af	23 Sei con #94 seu con	Amoco Actu Con

▲ BASIN DAKOTA

- Blowout Preventers and Haster Valve to be fluid operated, and all fittings must be in good condition.
- Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
- Nipple above Blowout Preventer shall be same size or larger than BOP being drilled 3. 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 0-4

OCTOBER 16,1965

Operation of BOP by closing both pipe and blind rars will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

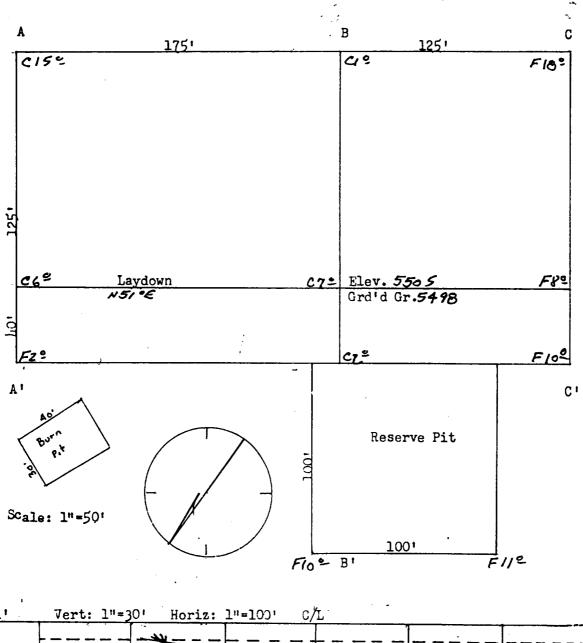
REPAPILITATION PLAN

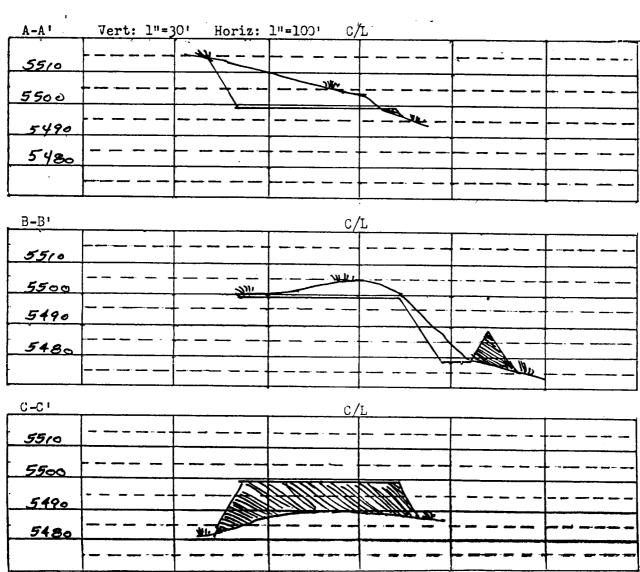
Lease No.:	; Well Name and No.: GCU, #102E FNL, 1030'FEL, Sec. 13, T. 29 N., R. 13 W.
owned by A.	Prod. Co. intends to drill a well on surface
agrees to complete	the following rehabilitation work if the well is a producer:
Yes // No	Maintain access road and provide adequate drainage to road.
HT Yes // No	Reshape and reseed any area not needed for maintenance of the pump and support facilities.
Other requirements	
The following work	will be completed when the well is abandoned:
/X Yes // No	Pit will be fenced until dry, then filled to conform to surrounding topography.
<u>/</u> ₹\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Water bars will be constructed as deemed necessary.
Yes // No	Site will require reshaping to conform to surrounding topography.
/X/ Yes /// No	Entire disturbed area will be reseeded. If yes, the following seed mixture will be used.
	Seed mixture I
Yes ⊅ No	Access road will be closed, rehabilitated and reseeded using the same seed mixture as above.
XX Yes /√/ No	Access road will remain for surface owner's use.
₩ Yes / No	Water bars will be constructed on the access road as deemed necessary.
Other requirements:	
Surface Owner:	Operator/Lessee:
Name: A.E. Du	4:
Address: 2809	S.S. R.D. Name: Hwoco Prod. (o) Address: 501 Alpant Dr.
State: V.W.	tou City: Farminoto
	State: 0.W/. Telephone: 325-884-1
Date:	Date:
I CERTIFY that above Cultural Resource Fi	rehabilitation plan is acceptable to me. I also waive an intensive eld Inventory.
1-4-8	- DO N -A-
(Date)	(Surface owner's signature)

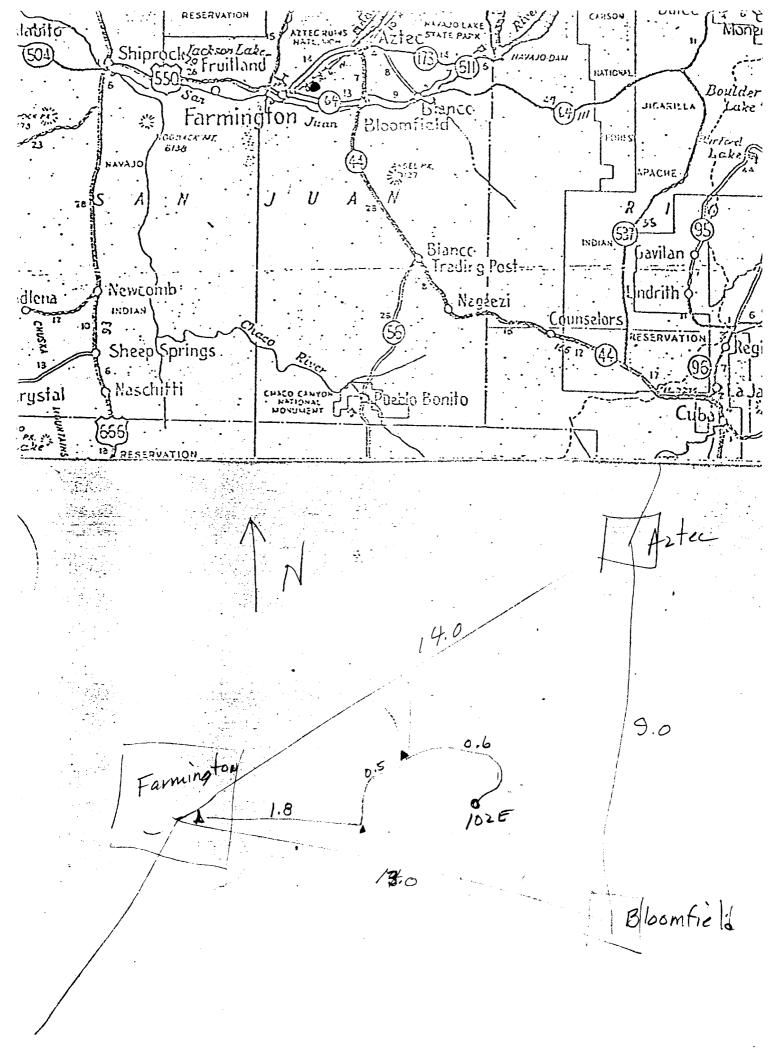
This plan does not affect any other agreements between the lessee/operator and

Operator: AMOCO PRODUCTION	Well Name: 102 6-CU
Legal Location: 870 FNL 1030 FEL	Well Name: 102 6-CU BEC./3 T.79 R. 13W
Lease Number:	Field Inspection Date: 12-20-89
l. The operator or his contractor will conta Office, Fluids Surface Management Staff, at (505) prior to construction activities.	act the BLM Farmington Resource Area
2. No construction or drilling activities shand Harch 31 because of elk/deer/bald eagle winter life biologist (Dave Renwald) at 325-3581, with an	habitat areas. Contact BLM wild-
3. The Fluids Surface Management Staff shall prior to moving on drilling rig. (505) 325-4572.	be notified upon site completion,
4. A (ft.) tree screen will be left on	the sides of the location.
5. Pits and/or pad will be constructed long a contour of terrain, so as to avoid the edge of haza failure.	
6. Pits will be lined.	
7. Earthen berm(s) will be placed on the the reserve pit and the wash.	_ side(s) of the location between
8. The corner of the well pad will be r	ounded off to avoid
· · · · · · · · · · · · · · · · · · ·	
9. The wash shall be diverted around the	_ side of the well pad.
10. Diversion ditch(es) will be constructed on above/below (circle one) the cut slope, draining to	
	d where the drainage crosses access
12. The proposed access road shall utilize the approximately (ft. or mi.) as agreed upon duri of planned access road will follow flagged route.	= .
13. The access road shall be rerouted around the during construction and drilling activities for safe drilling and cleanup, the road will be returned to i	ty reasons. Upon completion of
14. Recommended paint color breen seed mix I	_• _•
15. Net wire shall be required on all reserve p	its located on Sheep ranges.
16.	•
Operator's Representatiave	
Bureau of Land Management Representative	Mar Date 12-20-34
Note: If the land is privately owned, these requires	// ments may be varied to comply with

the operator - landowner agreement.







G.C.U. # 102E 870'FNL 1030'FEL Sec. 13, T29N- R13W San Juay Co. N. 49. Rail Point: 126 mi. Gallup, NM Mud Point: 3 mi. Farming ton, NM Cement Point: 3 mi. Farming ton, NM