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

SUBMIT IN TRIPLICATE.

(Other Instructions on reverse side)

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

UNITED STAT	ES
DEPARTMENT OF THE	INTERIOR

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 18. TYPE OF WORK DRILL \(\text{DEEPEN} \) DEEPEN \(\text{DEEPEN} \) PLUG BACK \(\text{DEEMENT NAME} \) 5. TYPE OF WELL OIL WELL \(\text{OAB} \) OAB WELL \(\text{Coal Seam} \) OTHER Amoco Production Company 3. ADDRESS OF OPERATOR 2325 East 30th Street, Farmington NM 87401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At proposed prod. zone Same 14. DIRTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR FOST OFFICE* 21 miles northeast of Aztec NM 15. DISTANCE FROM PROPOSED* (Also to rearest drig, unit line, if any) SINCE FROM PROPOSED* (Also to rearest drig, unit line, if any) So AFFROM OR LEASE INS. FT. See attriched plan OR AFFROM OR CARES ASSIGNED TO THIS WELL. 17. NO. OF ACRES ASSIGNED TO THIS WELL. 18. ON TAKE INS. FT. 22. APPROX. DATE WORK WILL START* As soon as permitted	DEPARTMENT OF	5. LEASE DESIGNATION AND BERIAL NO.				
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21 miles northeast of Aztec NM 10. Distance from Proposed* Location to Nearest Proposed* PROPERTY OR Lease Line, FT. (Also to mearest drig. unit line, if any) 13. Distance from Proposed Location* To Nearest Well, Drilling, Completed, OR Applied To Nearest Well, Drilling, Completed, OR Applied For, ON This Lease, FT. 21. ELEVATIONS (Show whether The RECOUNTY DISSENTING AS SOON, as permitted. 5853' CR / Procedural review pursuant to 43 CFR 3165.9	• • •			MSWSW Sec 1	, T30N, R9W	
18. No. of acres in lease Location to nearest PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 19. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2890' 21. ELEVATIONS (Show whether THE RES. CR. escaution to tochnical and 5853' CR / Proceedural review pursuant to 43 CFR 3165.3	14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN	OR POST OFFICE		12. COUNTY OR PARIS	H 13. STATE	
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 1,275.56 ac. 20 W /2 323 20 ROTARY OR CABLE TOOLS ROTARY 20. ROTARY OR CABLE TOOLS ROTARY 21. ELEVATIONS (Show whether THE RET; GR. escaution to toolinical sections) 5853' CR / procedural review pursuant to \$3 CFR 3165.9	21 miles northeast of Aztec NM	1		San Juan	NM	
2890 Rotary 21. ELEVATIONS (Show whether TATE RE) CR. 45-3ubject to technical and 5853 CR / procedural review pursuant to 43 CFR 3165.3 As soon as permitted	LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 950	1,275.56 ac.		HIS WELL		
21. ELEVATIONS (Show whether THE RESIDENCE TO to English to 43 CFR 3165.3 As soon as permitted.	TO NEAREST WELL, DRILLING, COMPLETED,		1 _			
2833 GR / And appeal pursuant to 43 CFP 3163.3 IAs soon as permitted		ośhnica: ‱.i		22. APPROX. DATE W		
24. The first between the contract of the cont	23. GR / end appeal pursuant to 43	CFR 3165.4		As soon as po	ermitted	

SUBJECT TO COMPLIANCE WITH ATTACHED BIZE OF CABING WEIGHT RER FOOT .. SECTING DEPTH SIZE OF ROLE <u>9-5/8"</u> 12-1/4" 36# K55 250' 683 cf Class 8-3/4" 24**3**2' 20# K55 6-1/4" 5-1/2" 2629' 23# P110

Notice of Staking was submitted 04/12/89.

This well was formerly named Pritchard 1, 1A, 2, 2A #11

Lease description:

T30N-R9W, NMPM

1: Lots 1,2,3,4, S/2 N/2, S/2

T31N-R9W, NMPM

Sec. 34: Lots 1-16

OCT 3 1 1990 OIL CON. DIV DIST. 3

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed is to deepen or plug back, give data on present productive sone and proposed new productive

zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured ar preventer program, if any.	nd true vertical depths. Give blowout
81GNED of Hampton TITLE Admin. Supv.	5/3/89
(This space for Federal or State office use)	AFr
PERMIT'S PROVAL OF this action does	AS AM
approved the the applicable	OCT 23 1990
	- Tomo Kelle
or title to this loase." Pth of Mutchard #9	MAREA Nobala
or title to this loace." If the Milchard #9 F	v
Title 18 U.S.C. Section 1001, maken it a crime for any person knowingly and willfully to make to any de	distributed in whichten of the

Amoco proposes to drill the well to further develop the Fruitland Coal reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to the intermediate casing point with a non-dispersed mud system. The attached modified 11" 3000 psi blowout preventer will be used. Amoco will attempt to complete the Fruitland coal by drilling the interval with water and air. A service unit will probably be used to drill into the coals using the attached modified 6" 3000 psi BOP. If commercial productivity is established, then a 5-1/2" uncemented liner will be run. Amoco reserves the right to utilize a drilling rig to drill this hole section.

Quantity	Size	Weight	Description	Cementing Program
SURFACE CASI 250'	NG 9-5/8"	36#	K55 ST&C	200 cf Class B, 2% CaCl ₂
a439'	STRING 7"	20#	K55 ST&C	683 cf Class B, 65:35:6 10% salt, .25% dispersant 13.1 ppg 118 cf Class B, 2% CaCl ₂
LINER 300'	5-1/2"	23#	P110 LT&C	15.6 ppg None

The above casing design is based upon a 9.0#/gallon mud weight.

CONTINGENCY OPERATIONAL PLAN

In the event the well does not yield commercial volumes of gas from the open hole completion, the water filled hole will be mudded-up and weighted-up as necessary (9-11#/gal.) for hole stability and well control. The well will then be deepened approximately 250' into the Pictured Cliffs formation to provide necessary footage for a cased and cemented completion technique. The Fruitland coals will then be perforated and fracture stimulated. The Pictured Cliffs formation will be isolated with cement.

CONTINGENCY	LINER			
650'	4-1/2"	11.6#	K-55 LT&C	250 cf Class B

The contingency string is based upon a 11.0#/gallon mud weight.

Evaluation:

Mud logs will be the only logs run if the well is completed as an open hole. The log surveys (FDC/GR/CAL, DIL/SP/GR, Microlog, Mudlogger) will be run only if the well is drilled into the Pictured Cliffs formation, and only if well condition is suitable to allow proper wireline log interpretation.

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

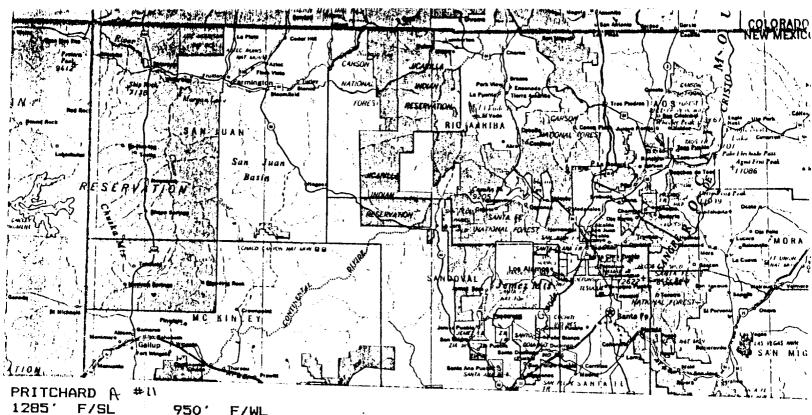
DISTRICT II P.O. Drawer DD, Artesia, NM 88210

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

	• • • • • • • • • • • • • • • • • • • •	All Distances	must be from the outer boundaries of the	section	
Operator			Lease		Well No.
	CO PRODUCT	ION COMPANY			# 11
Unit Letter	Section	Township	Range	County	
M	11	30 NDRTH	' 9 WEST	NMPM	SAN JUAN
Actual Footage Loc	ation of Well:				
	5 feet from the	SOUTH		feet from the	WEST line
Ground level Elev.		Formation	Pool	_	Dedicated Acreage:
5853		itland ————————	Basin Fruitland		3-20 W/2 Acres
			olored pencil or hachure marks on the plat bel each and identify the ownership thereof (both		nd royalty).
		•	sted to the well, have the interest of all owner	s been consolidated by o	ommunitization,
առ։uz։	ation, force-pooling, etc Yes		s "yes" type of consolidation		
If answe			hich have actually been consolidated. (Use re	everse side of	
this form	n if neccessary.		·		
No allow	vable will be assigned to	the well until all interes	sts have been consolidated (by communitization	on, unitization, forced-po-	oling, or otherwise)
Or unui i	non-standard unit, enr	minating such interest, ha	s been approved by the Division.		
	/	·····		OPER	ATOR CERTIFICATION
			DECEIVE	1 here	by certify that the information
- 3	<i>//</i> !				erein in true and complete to the
	7 5 !			best of my k	nowledge and belief.
		/	OCT 3 1 !19 90 ;	Signature	
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			DISTL 3	Printed Nam B. D.	
				Position	- Dridw
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	/ i		i	Date	3 I LOGGOCION
	/ i		1		1 12, 1989
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 					it was plotted from field notes of veys made by me or under my
1	X		1	1 1 .	and that the same is true and
	/1	1	1	correct to	the best of my knowledge and
' '	/		1	belief.	
	/	-		Date Surve	yed
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950' F/WL SEC. T30N, R9W, NMPM

POINT: 134 miles from Montrose CO POINT: 21 miles from Aztec NM RAIL

MUD CEMENT POINT: 35 miles from Farmington NM EXHIBIT A

