Form: 3160-3 (November 1983) (iometry 9-J31C)

SUBMIT IN TRIPLICATE. (Other lastructions on reverse side) UNITED STATES

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

(tormerly 9-331C)	DEPARTMENT	OF THE	NTER	RIOR		5. LEASE DESIGNATION	AND BERIAL NO.
BUREAU OF LAND MANAGEMENT					SF-078626 7hr	7-113625	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLUTTER	
DRILL W DEEPEN PLUG BACK					7. UNIT AGREEMENT N	ME	
b. TYPE OF WELL OIL OAS COAL Seam AINGLE ZONE ZONE ZONE					8. FARM OR LEASE NAM	18	
WELL WELL OTHER ZUNE A. ZONE					Schwerdtfeger	Gas Com	
Amoco Produc	ction Company					D. WELL NO.	
3. ADDRESS OF OPERATOR].	
2325 East 30	Oth Street, Far	mington NM	8740	1.		10. FIELD AND POOL, OR WILDCAT	
At Surjuce	eport location clearly and	in accordance wi	th any S	tate requirements.*)		Basin Fruitlar	
1760' FNL x 1910' FEL					11. SEC., T. R., M., OR B	LK.	
At proposed prod. zone Same					SWNE Sec 27 T	31.N R9W	
14. DINTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*					12. COUNTY OR PARISH	13. STATE	
16 miles n	northeast of Azt	ec NM				San Juan	NM
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE SINE, FT. (Also to nearest drig, unit line, if any) 176()				. OF AURES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL 3/4,53		
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.				oroseo pertu attached plan 3300'	an Potary		
21. ELEVATIONS (Show wh		SUBJECT TO	COMPLI	IS AŬTHORIZED ARL Ange with atta ched Aents?	This	22. APPROX. DATE WO	
23.	I	PROPOSED CASI	NG TNE	MENTS". CEMENTING PROGRA	M proced	ural review pursuant	to 43 CFR 3165
SIZE OF HOLE	SIZE OF CARING	WEIGHT PER FOOT		SETTING DEPTH	and ap	post pursuant to 43 C	T 3100.4.
12-1/4"	9-5/8"	36# K55		250'	200	cf Class B	
8-3/4"	7"	20# K55		2 83 5 '	79	7 cf Class B	
6-1/4"	5-1/2"	23# Pll()	3041'			
	ı	1			•	t to the season	
Norice of S	taking was subm	itted 4-17-	-89.		9 90 PM		



Lease description:

 $\frac{\text{T31N-R8W, NMPM}}{\text{Sec. 31: Lots }1-4, E/2 W/2}$

OIL CON. DIV DIST. 3

T31N-R9W, NMPM

Sec. 27: Lots 1-7, N/2 SW/4, SE/4, SE/4 SW/4

SIGNED J & Hampton	TITLE Admin. Supv.	DATE 5/12/89
(This space for Federal or State office use)	2	APPROVED
PERMIT NO.	APPROVAL DATE	AS AMENDED
APPROVED BY	TITLE	JUN 22 1989

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 CASING 250'	9-5/8"	36#	K55 ST&C	200 cf Class B, 2% CaCl ₂ 15.6 ppg
INTERMEDIATE S as35'	TRING 7"	20#	K55 ST&C	797 cf Class B, 65:35:6 10% salt, .25% dispersant 13.1 ppg 118 cf Class B, 2% CaCl ₂ 15.6 ppg
LINER 300'	5-1/2"	23#	P110 LT&C	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.

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 \$1210

<u>PISTRICT I</u> P.O. But 1980, Hobbs, NM 88240

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

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

	Lake	Well No.				
Operator AMOCO PRODUCTION COMPANY	SCHWERDTFEGER GAS C	DM # 1				
Unis Letter Section Township G 27 31 NORTH	9 WEST NMPM	SAN JUAN				
Actual Footage Location of Well: 1760 Feet from the NORTH line at Ground level Elev. Producing Formation	Pool	Dedicated Acreage:				
Froducing Formation Froducing						
or until a ace-standard unit, eliminating such interest, has been	a approved by the Division.					
T	09/	OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Signature Printed Name B. D. Shaw Position Adm. Supv. Company Amaco Date 4-17-89 SURVEYOR CERTIFICATION				
		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed April 12, 1989 Signature & Saylor D. VANA Garifia April 12, 1989 Gentifiant Certifiant Control of the control of t				
0 330 660 990 1320 1650 1980 2310 2640	2000 1500 1000 500 0	SSSIONN				

