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		BUREAU OF LAND	MANAGEMENT			LC 031741	A BEELL NO.	
APPLIC		PERMIT TO D	RILL, DEEPEN,	OR PLUG B	ACK	6. IF INDIAN, A	LLOTTER OR TRIDE NAME	
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	GAS WELL	OTRER	RINGLE ZONE			8. FARM OR LE. Hawk A		
ANE OF OFE			1	3a. Aren Code 6 (915) 686-6		9. WELL NO.		
Desta		W, Midland, TX	79705				POOL, OR WILDCAT	
OCATION OF			dance with any State re	quirements.*)		Eumont 81	* Vates S	
At proposed j		′ FNL & 1980′ F s/Seven Rivers	· · ·	N B		11. SBC., T., B., AND SURVES	OR ARRA	
	laite	TION FROM MEAREET TOW	-24m	<u>492 M</u>		12. COUNTY OR	-21S, R-37E	
			í			Lea	PARIER 13 PTATE	
LOCATION TO PROPERTY OR	OM PROPUSED* MEAREST LEAGE LINE, PT. LPSt drig. unit line		18. NO. OF AC	TRA IN LEASE		P ACRES ASSIGNE	40.	
DISTANCE PR	MELL, DRILLING, CO	TION*	19. FROFORED 3900			Rotary		
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3414.2'		PROPOS			- Annti	10/1	d Water Basin	
		F NVPU3		A LING PROURAM	- Capi	1991 (P.D.) (1997)		
	CASING SIZE	WE IGHT/FOOT	GRADE	THREAD T	TPE			
2-1/4"	8-5/8"	24#	K-55	ST&C	YPE	420	250 circ.	
2-1/4"					YPE			
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SuSmit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies State of New Mexico — ELorgy, Minerals and Natural Resource. Jepartment

Form C-102 Revised 1-1-89

DISTRICT I

DISTRICT III

P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

<u>DISTRICT II</u> P.O. Drawer DD, Artesia, NM 88210

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		CONOCO	INC.	I	lease	HAWK	"A"		Well No.	11
Unit Letter	Sectio	n	Township		Range			County	1	
Β.		8	21 SC	DUTH		37 EAST	NMPM		LEA	
Actual Footage Loc	ation			••••••••••						
	t from				1980		feet from	the EAS	· · · · · · · · · · · · · · · · · · ·	
Ground Level Elev		roducing For			Pool Eu	mont Oit			Dedicated A	-
3514.2'			ven Rivers/Q						4	O Acres
1. Outline the ac	creage	dedicated to	the subject well	by colored pen	cil or hach	ure marks on t	he plat below.			
2. If more than	one le	ase is dedica	ited to the well,	outline each a	nd identify	the ownership	thereof (both	as to workin	ng interest a	nd royalty).
3. If more than			ent ownership is	dedicated to t	he well, ha	we the interest	of all owners	been consol	lidated by co	mmunitization,
unitization, fo	orce-p		10	"" 4 4						
	• • •	∐ No		"yes" type of			/			
If answer is "no this form necess		of owners an	d tract descript	ions which hav	re actually	been consolida	Led. (Use reve	rse side of		
No allowable w		assigned to	the well unit	all interests	have been	consolidated	(by communi	itization, u	nitization, f	orced-pooling
otherwise) or u	ntil a	non-standar	d unit, elimina	ting such inte	rest, has t	een approved	by the Divisio	<u>n.</u>		
				for the second s	*******	<u>e</u>		OPERAT	FOR CERT	IFICATION
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ATTACHMENT TO FORM 3160-3 APPLICATION FOR PERMIT TO DRILL

Conoco Inc.

Hawk A No. 11 Sec. 8, T-21S, R-37E Lea County, New Mexico

- 1. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan Outline.
- 2. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on the attached Proposed Well Plan Outline.
- 3. A drawing of Blowout Preventer Specifications is attached. Pipe rams and blinds will be checked to the working pressure of the stack or 70% of the minimum internal yield strength of the casing whichever is less. BOP will be checked when casing string is set.
- 4. The proposed casing program is as follows:

0-420':	8-5/8"	24#	K-55
0-3900':	5-1/2"	15-1/2#	K-55

5. The proposed mud program is as follows:

0-420':	8.4# Fresh
420'-3000':	10.0-10.2 Brine
3000'-3900':	10.0-10.2 Brine w/starch

- 6. The logging suite will include the following open-hole logs:
 1) GR-CAL-DLL-MSFL from 3900'-2600' and 2) GR-CAL-CNL-FDC from 3900'-2600'.
- 7. Special Drilling Problems:
 - a) Possible swelling in Red Beds
 - b) Possible salt section washout
 - c) Yates, 7-Rivers, s & Queen pressure depleted
- 8. The anticipated starting date is 10-1-93 with a duration of approximately 14 days.

PROPOSED WELL PLAN JUTLINE

		-21S, R-37E, Lea C	ouncy, now m			,			
	FORMATION		TYPE OF		CASING		FORMATION	MUD	
	TOPS &	DRILLING	FORMATION	HOLE	A175 05000	FRAC			
	TYPE	PROBLEMS	EVALUATION	SIZE	SIZE DEPTH	GHAD	GRADIENT	WT TYPE	DAYS
°					8-5/8", 24# @ 420 Cemented with 250 at Class	c		Native 8.4-9.0ppg	
	Red Beds	Possible Swelling in Red Beds						Saturated Brine	1
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¹									
	Anbydrite	Pomible Salt Section Washout		7-7/8°					
2									1
	Salt Base 2480' Yates 2683'		Mudloggers on at 2600	Į					
		Yates, 7-Rivers, and Queen pressure							
	Seven Rivers 2920	depleted							
	Queen 34907		TD - 2600						
	TD 3900'		DLL/MSFL/OR/Cal CNL/FDC/GR/Cal		51/2", 15.5# @ 3900" Cemented with 600 m Cla			Salt Gel/Brine to lo	r 6-
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DATE _____ 29-Jun-93

BOP SPECIFICATIONS

