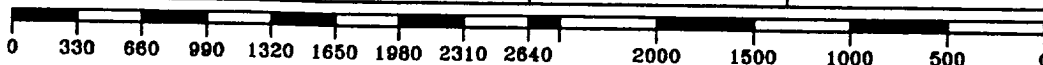


Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the



ATTACHMENT TO FORM 3160-3
APPLICATION FOR PERMIT TO DRILL

Conoco Inc.

Lockhart A-27 No. 14
Sec. 27, 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:

0-1200':	8-5/8"	24#	K-55
0-5350':	5-1/2"	17#	K-55
5. The proposed mud program is as follows:

0-1200'	8.4# Fresh
1200'-5000':	10.0-10.2 Brine
5000'-5350':	10.0-10.2 Brine w/starch
6. The logging suite will include the following open-hole logs:
1) GR-SP-CAL-DLL-MSFL from 5350'-2300' and 2) GR-CAL-LDT-CNL-PE from 5350'-2300'.
7. Special Drilling Problems:
 - a) Possible hole enlargement & sloughing 0'-4500'
 - b) Possible seepage 4200'-TD
8. The anticipated starting date is 8-15-93 with a duration of approximately 14 days.

PROPOSED WELL PLAN OUTLINE

* WELL NAME **Lockhart A-27 No. 14**

LOCATION **660 FNL & 990' FEL, Section 27 T-21S, R-37E, Lea County, New Mexico**

TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WT TYPE	DAYS
0		Redbeds & shells 200'	Possible hole enlargement & sloughing 0-4500'		12-1/4"				Fresh 8.3 ppg	
1		Rustler 1200' Top Salt 1290'			7-7/8"	8-5/8", 24#, K-55 STAC, 1200'		<8.3	Brine 10.0 ppg	
2		Base Salt 2360' Yates 2495' 7 Rivers 2755'		H2S monitors installed @ 2300' Two-man mud loggers @ 2300'						
3		Queen 3325' Ponrose 3475' Grayburg 3691'								
4		San Andres 3851'	Possible seepage 4200'-TD							
5		Glorieta 5035' Paddock 5101' TD: 5350'		GR-CAL-TD-Surface GR-CAL-SP-DLL-MSFL & GR-LDT-CNL-PB 2300'-TD		5-1/2", 17#, K-55 LTAC, 5350'		<8.3	Salt Gel & Starch 10.0 ppg	
6										
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16										

DATE 06-May-93

BOP SPECIFICATIONS

