

HOLE PROGNOSIS  
FORM 3160-3 APPLICATION FOR PERMIT TO DRILL  
ECHO PRODUCTION, INC.  
CORSAIR 27 FEDERAL #3  
1980' FSL & 2310' FWL  
SECTION 27-23S-32E  
LEA COUNTY, NEW MEXICO

In conjunction with Form 3160-3 Application for Permit to Drill, Echo Production, Inc. submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

1. Geological Name of Surface Formation:

Permian

2. Estimated Tops of Geologic Markers:

Rustler	1200'	Cherry Canyon	5950'
T. Lamar	4890'	Bone Spring	8700'
Bell Canyon	4920'	Avalon Sand	8860'
T.D.	9000'		

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Surface	150'	Fresh Water
Delaware	4920'-8450'	Oil or Gas
Bone Spring	8700'	Oil or Gas
Avalon Sand	8860'	Oil or Gas

No other formations are expected to produce oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at 600' and circulating cement back to surface. Any shallower zones above TD that contain commercial quantities of oil and/or gas will have cement circulated across the zone.