



# PETROLEUM DEVELOPMENT CORPORATION

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## MULTI-POINT DRILLING PLAN

Petroleum Development Corporation  
Sun-McKay Federal #2  
1980' FEL & 1980' FNL, Sec. 10, T19S, R32E  
Lea County, New Mexico  
Lease: NM 12413-A  
(640 acres)

This supplemental plan is submitted with the Application to Drill the above-described well in compliance with NTL-6 of the United States Department of the Interior.

1. The surface is composed of fine-grained sand, quaternary in age.
2. Estimated top of primary geologic markers are:

Rustler	1220	(+2459)
Salt	1450	(+2229)
Tansill	2850	(+ 829)
Yates	2900	(+ 779)
Seven Rivers	3350	(+ 329)
Queen	3920	(- 241)
Grayburg	4320	(- 641)
Delaware	5750	(-2071)
Bone Spring	7220	(-3541)
Wolfcamp	10520	(-6841)
Strawn	11580	(-7901)
Atoka	11900	(-8221)
Morrow	12309	(-8630)

Estimated KB Elevation: 3679

3. The estimated depths at which anticipated water, oil or gas bearing formations are to be encountered, are:

4500'-4800'	oil	Cherry Canyon Sand
10,000'	oil	Bone Spring Lime
10,520'	oil	Wolfcamp Lime
11,580	oil	Strawn Lime
12,600	gas	Morrow Sand

4. Proposed casing program: See Form 9-331C.
5. Pressure control equipment: See schematic, Exhibit "D". Before drilling the Wolfcamp formation, the BOP and related control equipment shall be pressure-tested to rated working pressures by an independent service company. The district office shall be notified in time to witness the tests. Pipe rams and the annular-type preventer shall be actuated at least once each 24 hrs. and the blind rams each time the drill pipe is