



PETROLEUM DEVELOPMENT CORPORATION

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MULTI-POINT DRILLING PLAN

PETROLEUM DEVELOPMENT CORPORATION
Roberts - McKay Federal #1

1980' FNL, 1980' FEL, SEC. 11, T19S,
R32E, LEA COUNTY, NEW MEXICO.

Lease: NM 12568
(320 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 find-grained sand, quaternary in age,
2. Estimated top of primary geologic markers are;

Rustler	1420	(+2229)
Salt	1650	(+1999)
Tansill	3050	(+ 599)
Yates	3100	(+ 549)
Seven Rivers	3550	(+ 99)
Queen	4120	(- 471)
Grayburg	4520	(- 871)
Delaware	5950	(-2271)
Bone Spring	7450	(-3801)
Wolfcamp	10750	(-7101)
Strawn	11780	(-8131)
Atoka	12150	(-8501)
Morrow	12550	(-8901)

Estimated KB Elevation: 3,649

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

8750'-8850'	Oil	Bone Spring Sand
10,200'	Oil	Bone Spring Lime
10,750'	Oil	Wolfcamp Lime
13,000'	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