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ENGINEERING OPERATIONS
9720-B CANDELARIA, NE
ALBUQUERQUE, NM 87112
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REPLY TO: ALBUQUERQUE

MULTI-POINT DRILLING PLAN

Petroleum Development Corporation
Manzano Grande Federal #1
660' FSL and 1980' FEL, Sec. 5, T24S, R26E
2.30/E Eddy County, New Mexico
Lease: NM 28641

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 limestone rocks and finely broken limestone.
2. Estimated top of primary geologic markers are:

Delaware Sand	1,840	(+1685)
Bone Spring	5,500	(-1975)
Canyon	10,125	(-6600)
Strawn	10,425	(-6900)
Atoka	10,625	(-7100)
Morrow	11,125	(-7600)

Estimated KB Elevation: 3525
3. The estimated depths at which anticipated water, oil or gas bearing formations are to be encountered are:

1840'	possible oil	Delaware Sand
10,425'	possible gas	Stawn Lime
10,625'	possible gas	Atoka Lime
11,125'	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