

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF CIMAREX ENERGY
CO. OF COLORADO TO CHANGE
THE SETBACK REQUIREMENTS IN
THE WOLFCAMP FORMATION WITHIN
TOWNSHIPS 24S, 25S, 26S AND RANGES 25E,
26E AND 27E, N.M.P.M., EDDY COUNTY,
NEW MEXICO, TO EXPAND POOL BOUNDARIES,
AND TO ESTABLISH THE CROOKED CREEK
WOLFCAMP GAS (EAST) POOL, THE
BLACK RIVER, WOLFCAMP, SOUTHWEST
(GAS) POOL, AND CREATE THE WELCH, WOLFCAMP,
MILEPOST POOL, THE WOLFCAMP (GAS) POOL,
AND THE MILEPOST, WOLFCAMP, NORTHEAST
(GAS) POOL IN EDDY COUNTY, NEW MEXICO**

CASE NO. 15430

CIMAREX'S EXHIBIT NOTEBOOK

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| Exhibit 1 | Locator Map |
| Exhibit 2 | Wolfcamp Gas Pools Map |
| Exhibit 3 | Wolfcamp Pool Operators Map |
| Exhibit 3A | Support Letters from Operators |
| Exhibit 4 | Map of Wolfcamp NSL Wells |
| Exhibit 5 | Affidavit, notice letters, proof of mailing |
| Exhibit 6 | Geologic Model for Unconventional Wolfcamp Reservoir |
| Exhibit 7 | Comparison of 2 nd Bone Spring Sand Core (Conventional) and White City Area Wolfcamp Core (Unconventional) |
| Exhibit 8 | Comparison of Porosity/Permeability Conventional vs. Unconventional Reservoir |
| Exhibit 9 | Type Log of Wolfcamp Zone showing landing Zones for Horizontal Well |

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- Exhibit 10 Wolfcamp Shale Net Pay Isopach
- Exhibit 11 XEC PVT and Oil Analysis Data
- Exhibit 12 PVT Analysis
- Exhibit 13 Oil Analysis
- Exhibit 14 Measured API Gravities from Existing Producers
- Exhibit 15 Frac Direction v. Stress Orientation
- Exhibit 16 Well/Frac Orientation vs. SHmax
- Exhibit 17 XEC Culberson Project Area
- Exhibit 18 Drilling Induced Fracture Plots, Culberson County, Texas
- Exhibit 19 Lease Line Setback Analysis
- Exhibit 20 Section View Potential Waste
- Exhibit 21 Section View Increase Recovery

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