

**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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White City
Wolfcamp Gas Pools
Setback Change Eddy Co., NM

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01/07/16

