

PVT Analysis

- PVT Analysis taken from Cimarex Wolfcamp Completion Cottonwood Draw 22 Fed #1H
- Analysis indicates Saturated Gas as the Reservoir Fluid
- Sample API Gravity of 54.121

RESULTS SUMMARY

Company:	Cimarex Energy Co.
Well:	Cottonwood Draw 22 Federal No. 1H
Type of Test:	Retrograde Gas PVT Fluid Study
Reservoir Fluid Type:	Saturated Gas
Saturation Conditions:	
Pressure (Retrograde Dew Point):	5457 psig
Temperature:	165 °F
Gas Deviation Factor (Z):	1.02731
Gas Expansion Factor:	1.64479 Mscf/Bbl
Reservoir Conditions:	
Pressure:	3500 psig
Temperature:	165 °F
Gas Deviation Factor (Z):	N/A (Pres < Psat)
Gas Expansion Factor:	N/A (Pres < Psat)
Report Date:	9/15/2010

Case No. 15430

CIMAREX
Exhibit 12

TOTAL SAMPLE CHARACTERISTICS

COMPONENT	Specific Gravity		Molecular Weight lb/lb-mole	Vapor Volume Scf/Gal	Gross Heating Value	
	°API	**			Dry ***	Saturated ***
Gas	N/A	0.7240	20.889	193.278	1,282	1,261
Oil	54.121	0.7623	125.452	18.804	N/A	125,962
Wellstream	N/A	0.8447	24.464	48.691	N/A	N/A