

Latest Oil Analysis

- Hayduke 34 Federal #3H is the latest Wolfcamp Completion by Cimarex in the White City project Area.
- Well used a new larger completion design.
- Larger stimulated well still shows an API gravity similar to earlier generation Cottonwood Draw 22 Fed #1H

Case No. 15430

CIMAREX
Exhibit 13



LABORATORY
Natural Gas Analysis

www.permianls.com
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ASTM DISTILLATION

Cimarex Energy
Attention: Mark Cummings
600 N. Marlenfeld, Suite 600
Midland, Texas 79701

Sampled By: Taylor Ridings
Sample Date: 10/16/14

Sample ID: Hayduke 34 FC 3H

Percent Distilled

IBP	93
5	130
10	155
20	195
30	207
40	255
50	314
60	365
70	446
80	549
90	719
EP	722

Temperature

%Recovered = 91.5
% Residue = 1.5
% Loss = 7.0

Total Sulfur

0.0146 wt. %

API Gravity

57.2

Specific Gravity

0.7498

RVP

8.85 PSIG

Distillation ASTM D 86

Gravity ASTM D 287

Sulfur ASTM D 2622

Vapor Pres ASTM D 323