

# Page 1 of 4: Example of Heavy Oil 2-Zone Blind Test By “Company A” Using OilUnmixer™

## 3 Mixes of Two Heavy-Oil End Members

### Outside Lab Prepared Mixtures

15.0 % / 85.0 %

50.0 % / 50.0 %

80.0 % / 20.0 %

### OilUnmixer™ Results

13.4 % / 86.6 %

47.5 % / 52.5 %

79.0 % / 21.0 %

**Range of Error: 1.0 % to 2.5 %**

# Page 2 of 4: Example of Heavy Oil 3-Zone Blind Test By “Company B” Using OilUnmixer™

## 3 Mixes of Three Heavy-Oil End Members

### Outside Lab Prepared Mixtures

20 % / 35 % / 45 %

60 % / 20 % / 20 %

40 % / 60 % / 0 %

### OilUnmixer™ Results

18 % / 37 % / 45%

58 % / 25 % / 17%

39 % / 60 % / 1%

**Range of Error: 1.0 % to 5.0 %**

# Page 3 of 4: Example of Light Oil 2-Zone Blind Test By “Company C” Using OilUnmixer™

## 3 Mixes the Two Light-Oil End Members

### Outside Lab Prepared Mixtures

10.1 % / 89.9 %

39.8 % / 60.2 %

70.3 % / 29.7 %

### OilUnmixer™ Results

13 % / 87 %

42 % / 58 %

(Dup: 40 % / 60 %)

75 % / 25 %

**Range of Error: 2.2 % to 4.7 %**

From: McCaffrey, M. A., D. K. Baskin, M. A. Beeunas, and B. A. Patterson, 2006, Reducing the Cost of Production Allocation by 95% Using a Geochemical Technique: Abstract, AAPG 2006 Annual Convention, Houston, Texas, April 9-12, 2006.

# Page 4 of 4: Example of Diesel / Light Oil Blind Test By “Company D” Using OilUnmixer™

## 4 Mixes of a Diesel and a Light Oil End Member

### Outside Lab Prepared Mixtures

49.9% / 50.1%

75.2% / 24.8%

15.1% / 84.9%

5.1% / 94.9%

### OilUnmixer™ Results

51.9% / 48.1%

76.6% / 23.4%

15.7% / 84.3%

5.4% / 94.6%

**Range of Error: 0.3 % to 1.4 %**