

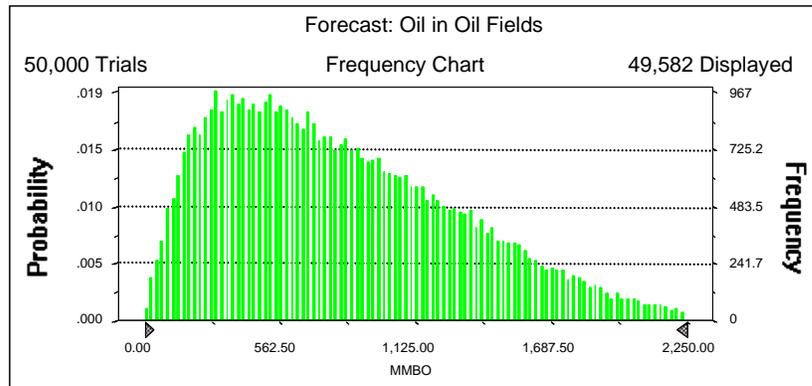
50190101
Neogene Basins
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 2,250.00 MMBO
Entire range is from 2.42 to 3,378.04 MMBO
After 50,000 trials, the standard error of the mean is 2.28

| Statistics: | Value |
|----------------------------|------------|
| Trials | 50000 |
| Mean | 827.40 |
| Median | 739.96 |
| Mode | --- |
| Standard Deviation | 510.02 |
| Variance | 260,122.40 |
| Skewness | 0.74 |
| Kurtosis | 3.13 |
| Coefficient of Variability | 0.62 |
| Range Minimum | 2.42 |
| Range Maximum | 3,378.04 |
| Range Width | 3,375.62 |
| Mean Standard Error | 2.28 |



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Neogene Basins
Monte Carlo Results

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

| <u>Percentile</u> | <u>MMBO</u> |
|-------------------|-------------|
| 100% | 2.42 |
| 95% | 160.08 |
| 90% | 233.01 |
| 85% | 297.44 |
| 80% | 358.78 |
| 75% | 418.45 |
| 70% | 481.16 |
| 65% | 542.39 |
| 60% | 604.93 |
| 55% | 672.06 |
| 50% | 739.96 |
| 45% | 814.03 |
| 40% | 890.34 |
| 35% | 971.77 |
| 30% | 1,061.01 |
| 25% | 1,157.39 |
| 20% | 1,266.77 |
| 15% | 1,393.23 |
| 10% | 1,548.37 |
| 5% | 1,780.19 |
| 0% | 3,378.04 |

End of Forecast

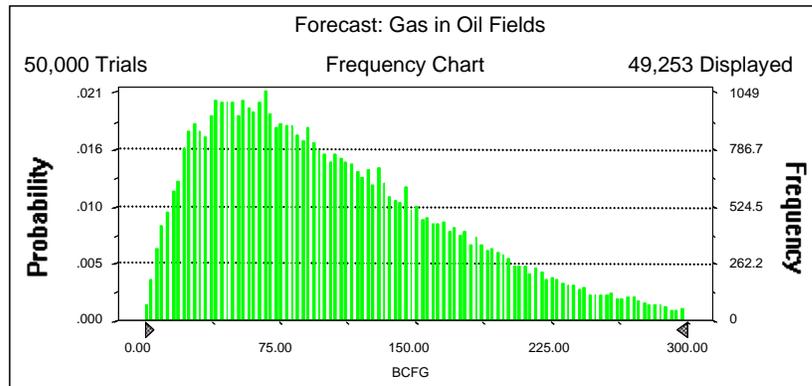
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Neogene Basins
Monte Carlo Results

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 300.00 BCFG
Entire range is from 0.51 to 544.00 BCFG
After 50,000 trials, the standard error of the mean is 0.32

| Statistics: | Value |
|----------------------------|----------|
| Trials | 50000 |
| Mean | 107.57 |
| Median | 93.11 |
| Mode | --- |
| Standard Deviation | 70.76 |
| Variance | 5,007.52 |
| Skewness | 1.00 |
| Kurtosis | 3.99 |
| Coefficient of Variability | 0.66 |
| Range Minimum | 0.51 |
| Range Maximum | 544.00 |
| Range Width | 543.49 |
| Mean Standard Error | 0.32 |



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

| <u>Percentile</u> | <u>BCFG</u> |
|-------------------|-------------|
| 100% | 0.51 |
| 95% | 19.94 |
| 90% | 29.01 |
| 85% | 37.62 |
| 80% | 45.12 |
| 75% | 52.69 |
| 70% | 60.33 |
| 65% | 67.89 |
| 60% | 75.91 |
| 55% | 84.33 |
| 50% | 93.11 |
| 45% | 102.76 |
| 40% | 112.72 |
| 35% | 123.63 |
| 30% | 135.02 |
| 25% | 148.33 |
| 20% | 164.22 |
| 15% | 182.49 |
| 10% | 205.91 |
| 5% | 243.52 |
| 0% | 544.00 |

End of Forecast

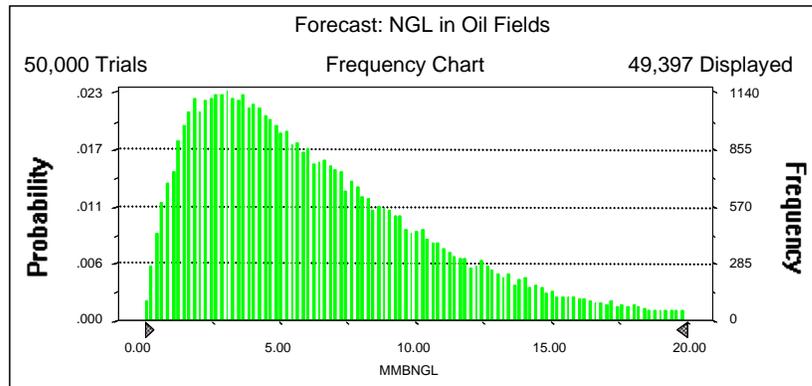
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Neogene Basins
Monte Carlo Results

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 20.00 MMBNGL
Entire range is from 0.03 to 37.82 MMBNGL
After 50,000 trials, the standard error of the mean is 0.02

| Statistics: | Value |
|----------------------------|-------|
| Trials | 50000 |
| Mean | 6.46 |
| Median | 5.43 |
| Mode | --- |
| Standard Deviation | 4.53 |
| Variance | 20.48 |
| Skewness | 1.24 |
| Kurtosis | 5.00 |
| Coefficient of Variability | 0.70 |
| Range Minimum | 0.03 |
| Range Maximum | 37.82 |
| Range Width | 37.79 |
| Mean Standard Error | 0.02 |



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Neogene Basins
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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

| <u>Percentile</u> | <u>MMBNGL</u> |
|-------------------|---------------|
| 100% | 0.03 |
| 95% | 1.12 |
| 90% | 1.67 |
| 85% | 2.13 |
| 80% | 2.59 |
| 75% | 3.03 |
| 70% | 3.48 |
| 65% | 3.93 |
| 60% | 4.40 |
| 55% | 4.90 |
| 50% | 5.43 |
| 45% | 6.01 |
| 40% | 6.62 |
| 35% | 7.28 |
| 30% | 8.01 |
| 25% | 8.87 |
| 20% | 9.83 |
| 15% | 11.03 |
| 10% | 12.67 |
| 5% | 15.23 |
| 0% | 37.82 |

End of Forecast

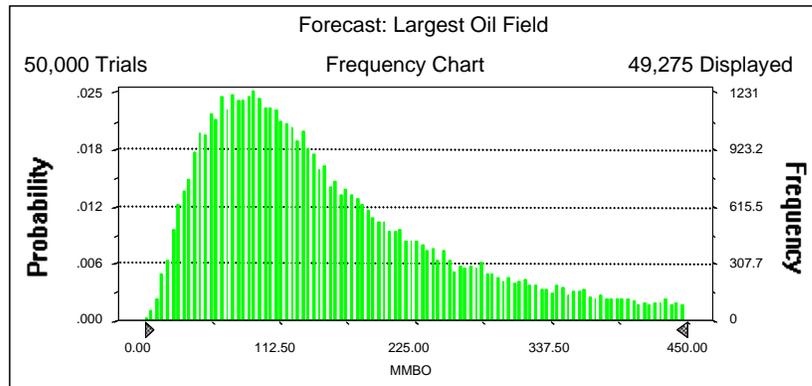
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Neogene Basins
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 450.00 MMBO
Entire range is from 0.99 to 499.99 MMBO
After 50,000 trials, the standard error of the mean is 0.46

| Statistics: | Value |
|----------------------------|-----------|
| Trials | 50000 |
| Mean | 154.90 |
| Median | 127.76 |
| Mode | --- |
| Standard Deviation | 102.85 |
| Variance | 10,577.60 |
| Skewness | 1.12 |
| Kurtosis | 3.79 |
| Coefficient of Variability | 0.66 |
| Range Minimum | 0.99 |
| Range Maximum | 499.99 |
| Range Width | 499.00 |
| Mean Standard Error | 0.46 |



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Forecast: Largest Oil Field (cont'd)

Percentiles:

| <u>Percentile</u> | <u>MMBO</u> |
|-------------------|-------------|
| 100% | 0.99 |
| 95% | 35.48 |
| 90% | 48.46 |
| 85% | 59.00 |
| 80% | 68.79 |
| 75% | 78.30 |
| 70% | 87.85 |
| 65% | 96.98 |
| 60% | 106.76 |
| 55% | 116.92 |
| 50% | 127.76 |
| 45% | 139.32 |
| 40% | 152.59 |
| 35% | 168.42 |
| 30% | 185.33 |
| 25% | 206.20 |
| 20% | 231.33 |
| 15% | 264.16 |
| 10% | 307.91 |
| 5% | 372.72 |
| 0% | 499.99 |

End of Forecast

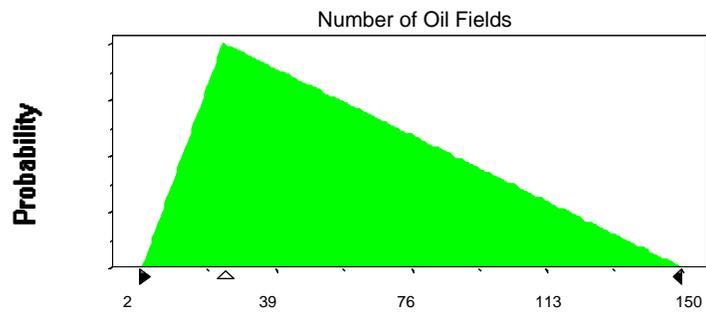
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

| | |
|-----------|-----|
| Minimum | 2 |
| Likeliest | 25 |
| Maximum | 150 |

Selected range is from 2 to 150



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

| | |
|--------------------|-------|
| Mean | 14.38 |
| Standard Deviation | 43.62 |

Shifted parameters

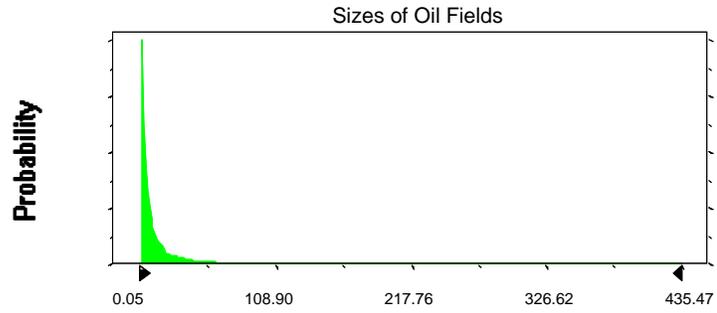
| |
|-------|
| 14.88 |
| 43.62 |

Selected range is from 0.00 to 499.50

0.50 to 500.00

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Assumption: Sizes of Oil Fields (cont'd)

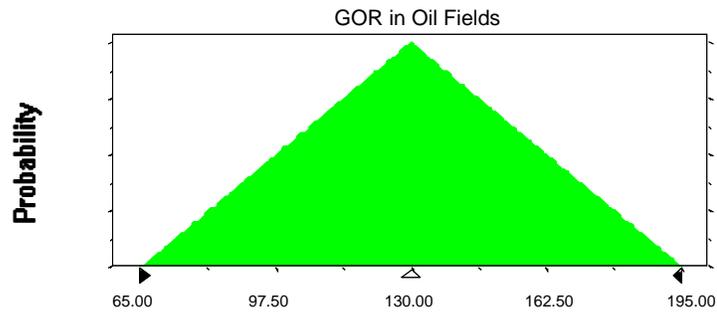


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

| | |
|-----------|--------|
| Minimum | 65.00 |
| Likeliest | 130.00 |
| Maximum | 195.00 |

Selected range is from 65.00 to 195.00



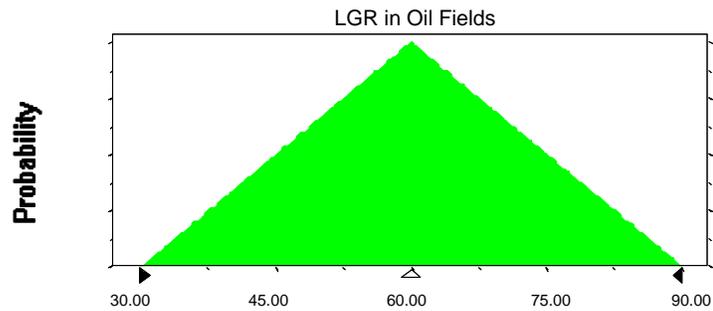
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Neogene Basins
Monte Carlo Results

Assumption: LGR in Oil Fields

Triangular distribution with parameters:

| | |
|-----------|-------|
| Minimum | 30.00 |
| Likeliest | 60.00 |
| Maximum | 90.00 |

Selected range is from 30.00 to 90.00



End of Assumptions

Simulation started on 12/15/04 at 13:19:50

Simulation stopped on 12/15/04 at 13:25:00



***Click here to return to
Chapter 3***