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## Jurassic/Triassic Fluvial and Lacustrine Sandstone, Assessment Unit 31280101
## Assessment Results Summary

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

| Field Type | MFS | Prob. (0-1) | Undiscovered Resources | | | | | | | | | | | | Largest Undiscovered Field (MMBO or BCFG) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Oil (MMBO) | | | | Gas (BCFG) | | | | NGL (MMBNGL) | | | | | | | |
| | | | F95 | F50 | F5 | Mean | F95 | F50 | F5 | Mean | F95 | F50 | F5 | Mean | F95 | F50 | F5 | Mean |
| Oil Fields | 2 | 1.00 | 42 | 128 | 266 | 138 | 5 | 18 | 43 | 20 | 0 | 1 | 3 | 1 | 9 | 17 | 36 | 19 |
| Gas Fields | 12 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NA | NA | NA | NA |
| Total | | 1.00 | 42 | 128 | 266 | 138 | 5 | 18 | 43 | 20 | 0 | 1 | 3 | 1 | | | | |

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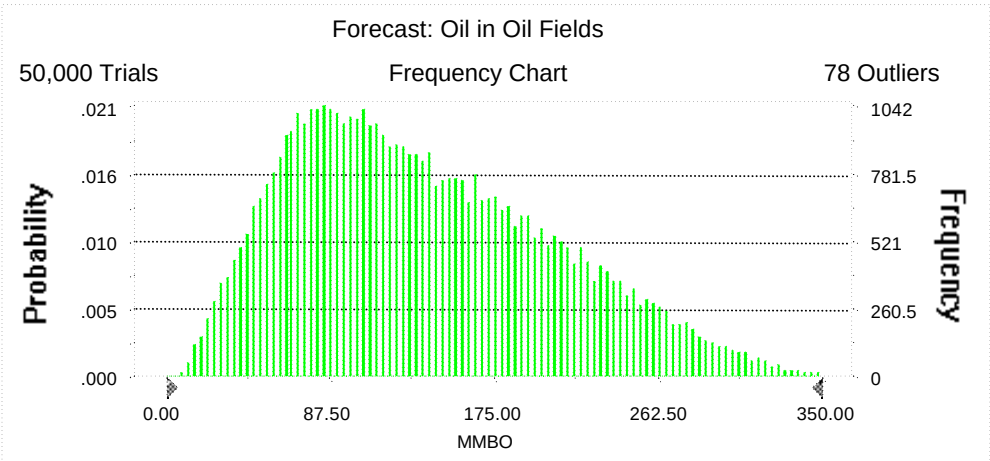
**Monte Carlo Results**

## Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 350.00 MMBO
Entire range is from 5.04 to 425.73 MMBO
After 50,000 trials, the standard error of the mean is 0.31

| Statistics: | Value |
|---|---|
| Trials | 50000 |
| Mean | 138.33 |
| Median | 127.85 |
| Mode | --- |
| Standard Deviation | 69.74 |
| Variance | 4,864.06 |
| Skewness | 0.53 |
| Kurtosis | 2.64 |
| Coefficient of Variability | 0.50 |
| Range Minimum | 5.04 |
| Range Maximum | 425.73 |
| Range Width | 420.69 |
| Mean Standard Error | 0.31 |



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**Monte Carlo Results**

**Forecast: Oil in Oil Fields (cont'd)**

Percentiles:

| Percentile | MMBO |
|---|---|
| 100% | 5.04 |
| 95% | 41.62 |
| 90% | 55.09 |
| 85% | 65.42 |
| 80% | 74.51 |
| 75% | 83.13 |
| 70% | 91.50 |
| 65% | 100.33 |
| 60% | 108.99 |
| 55% | 118.07 |
| 50% | 127.85 |
| 45% | 138.08 |
| 40% | 149.06 |
| 35% | 160.61 |
| 30% | 172.97 |
| 25% | 186.29 |
| 20% | 201.05 |
| 15% | 218.01 |
| 10% | 238.25 |
| 5% | 266.21 |
| 0% | 425.73 |

End of Forecast

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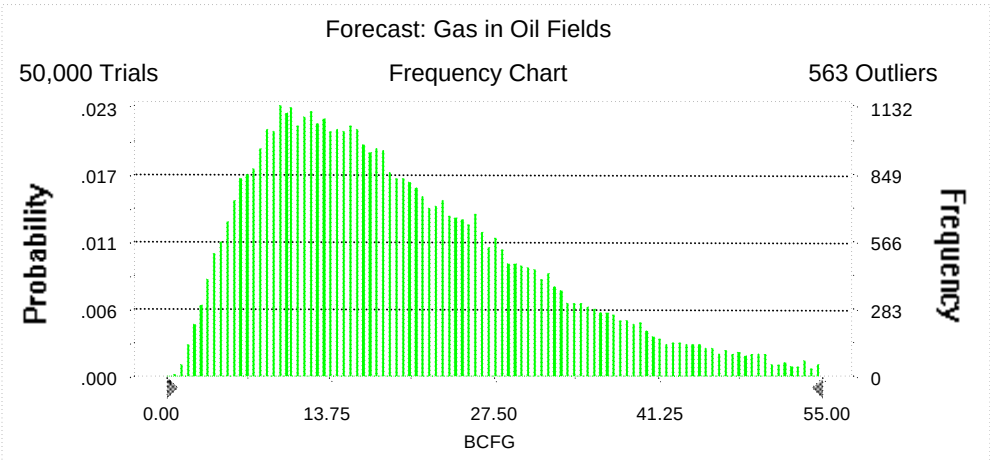
**Monte Carlo Results**

## Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 55.00 BCFG
Entire range is from 0.53 to 102.81 BCFG
After 50,000 trials, the standard error of the mean is 0.05

| Statistics: | Value |
|---|---|
| Trials | 50000 |
| Mean | 19.99 |
| Median | 17.59 |
| Mode | --- |
| Standard Deviation | 11.83 |
| Variance | 139.89 |
| Skewness | 1.02 |
| Kurtosis | 4.04 |
| Coefficient of Variability | 0.59 |
| Range Minimum | 0.53 |
| Range Maximum | 102.81 |
| Range Width | 102.29 |
| Mean Standard Error | 0.05 |



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**Forecast: Gas in Oil Fields (cont'd)**

Percentiles:

| Percentile | BCFG |
|---|---|
| 100% | 0.53 |
| 95% | 5.19 |
| 90% | 6.96 |
| 85% | 8.45 |
| 80% | 9.75 |
| 75% | 10.98 |
| 70% | 12.26 |
| 65% | 13.54 |
| 60% | 14.86 |
| 55% | 16.16 |
| 50% | 17.59 |
| 45% | 19.08 |
| 40% | 20.73 |
| 35% | 22.54 |
| 30% | 24.51 |
| 25% | 26.61 |
| 20% | 29.14 |
| 15% | 32.18 |
| 10% | 36.40 |
| 5% | 43.03 |
| 0% | 102.81 |

End of Forecast

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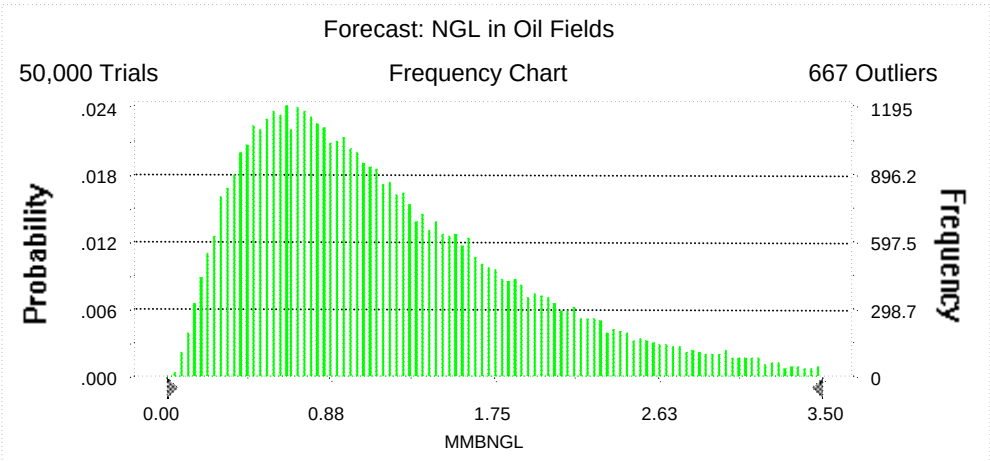
**Forecast: NGL in Oil Fields**

Summary:

Display range is from 0.00 to 3.50 MMBNGL
Entire range is from 0.03 to 6.39 MMBNGL
After 50,000 trials, the standard error of the mean is 0.00

| Statistics: | Value |
|---|---|
| Trials | 50000 |
| Mean | 1.20 |
| Median | 1.03 |
| Mode | --- |
| Standard Deviation | 0.77 |
| Variance | 0.59 |
| Skewness | 1.24 |
| Kurtosis | 4.92 |
| Coefficient of Variability | 0.64 |
| Range Minimum | 0.03 |
| Range Maximum | 6.39 |
| Range Width | 6.36 |
| Mean Standard Error | 0.00 |



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**Monte Carlo Results**

**Forecast: NGL in Oil Fields (cont'd)**

Percentiles:

| Percentile | MMBNGL |
|---|---|
| 100% | 0.03 |
| 95% | 0.29 |
| 90% | 0.39 |
| 85% | 0.48 |
| 80% | 0.55 |
| 75% | 0.63 |
| 70% | 0.71 |
| 65% | 0.78 |
| 60% | 0.86 |
| 55% | 0.94 |
| 50% | 1.03 |
| 45% | 1.12 |
| 40% | 1.22 |
| 35% | 1.33 |
| 30% | 1.46 |
| 25% | 1.59 |
| 20% | 1.76 |
| 15% | 1.97 |
| 10% | 2.25 |
| 5% | 2.71 |
| 0% | 6.39 |

End of Forecast

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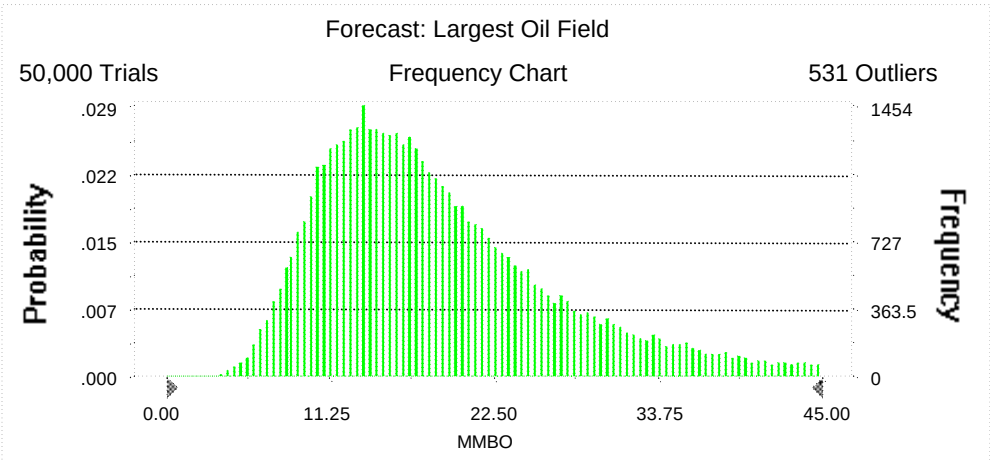
**Monte Carlo Results**

**Forecast: Largest Oil Field**

Summary:

Display range is from 0.00 to 45.00 MMBO
Entire range is from 2.62 to 50.00 MMBO
After 50,000 trials, the standard error of the mean is 0.04

| Statistics: | Value |
|---|---|
| Trials | 50000 |
| Mean | 18.91 |
| Median | 17.10 |
| Mode | --- |
| Standard Deviation | 8.38 |
| Variance | 70.22 |
| Skewness | 1.09 |
| Kurtosis | 4.09 |
| Coefficient of Variability | 0.44 |
| Range Minimum | 2.62 |
| Range Maximum | 50.00 |
| Range Width | 47.38 |
| Mean Standard Error | 0.04 |



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**Monte Carlo Results**

**Forecast: Largest Oil Field (cont'd)**

Percentiles:

| Percentile | MMBO |
|---|---|
| 100% | 2.62 |
| 95% | 8.55 |
| 90% | 10.02 |
| 85% | 11.06 |
| 80% | 11.98 |
| 75% | 12.86 |
| 70% | 13.68 |
| 65% | 14.49 |
| 60% | 15.35 |
| 55% | 16.22 |
| 50% | 17.10 |
| 45% | 18.04 |
| 40% | 19.08 |
| 35% | 20.25 |
| 30% | 21.56 |
| 25% | 23.06 |
| 20% | 24.90 |
| 15% | 27.33 |
| 10% | 30.65 |
| 5% | 35.97 |
| 0% | 50.00 |

End of Forecast

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**Monte Carlo Results**

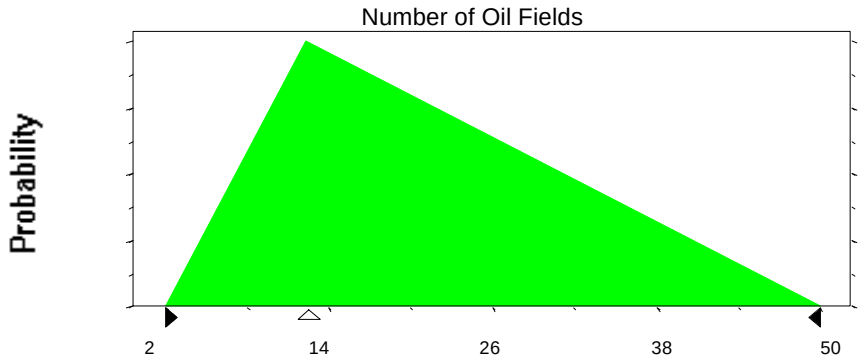
## Assumptions

### Assumption: Number of Oil Fields

Triangular distribution with parameters:

| | |
|---|---|
| Minimum | 2 |
| Likeliest | 13 |
| Maximum | 50 |

Selected range is from 2 to 50
Mean value in simulation was 22




### Assumption: Sizes of Oil Fields

| Lognormal distribution with parameters: | | Shifted parameters |
|---|---|---|
| Mean | 4.49 | 6.49 |
| Standard Deviation | 4.99 | 4.99 |

| | |
|---|---|
| Selected range is from 0.00 to 48.00 | 2.00 to 50.00 |
| Mean value in simulation was 4.42 | 6.42 |

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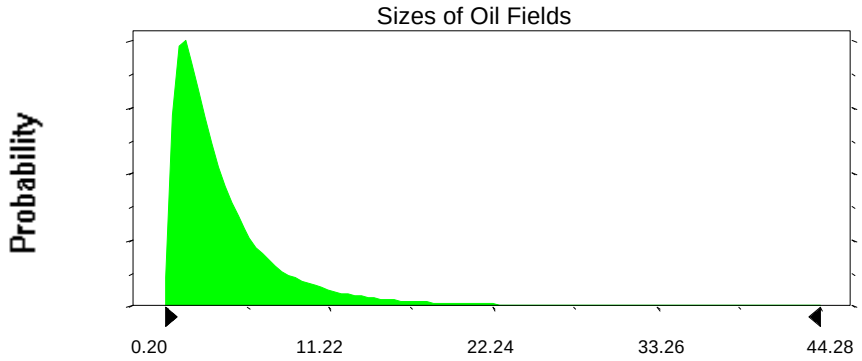
**Assumption: Sizes of Oil Fields (cont'd)**

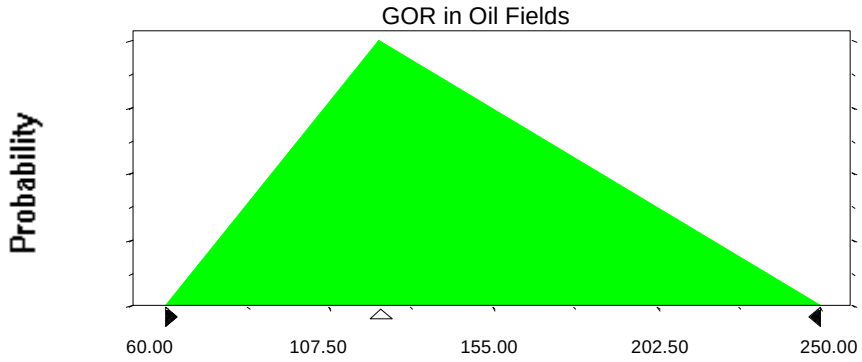



**Assumption: GOR in Oil Fields**

Triangular distribution with parameters:

| | |
|---|---|
| Minimum | 60.00 |
| Likeliest | 122.63 |
| Maximum | 250.00 |

Selected range is from 60.00 to 250.00
Mean value in simulation was 144.40



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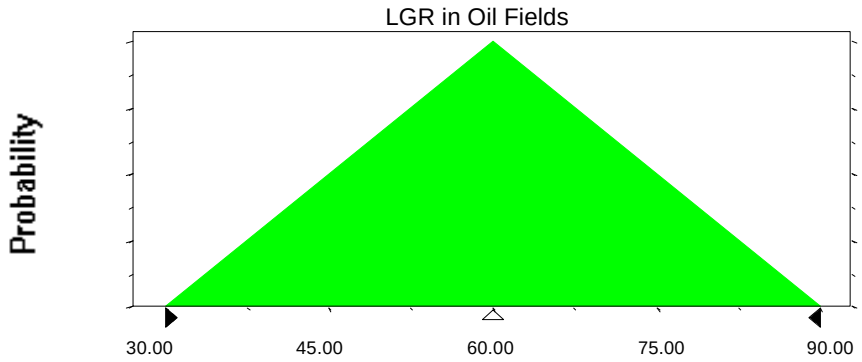
**Assumption: LGR in Oil Fields**

Triangular distribution with parameters:

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

Selected range is from 30.00 to 90.00
Mean value in simulation was 59.98




End of Assumptions

Simulation started on 10/7/99 at 14:01:23
Simulation stopped on 10/7/99 at 14:19:46