

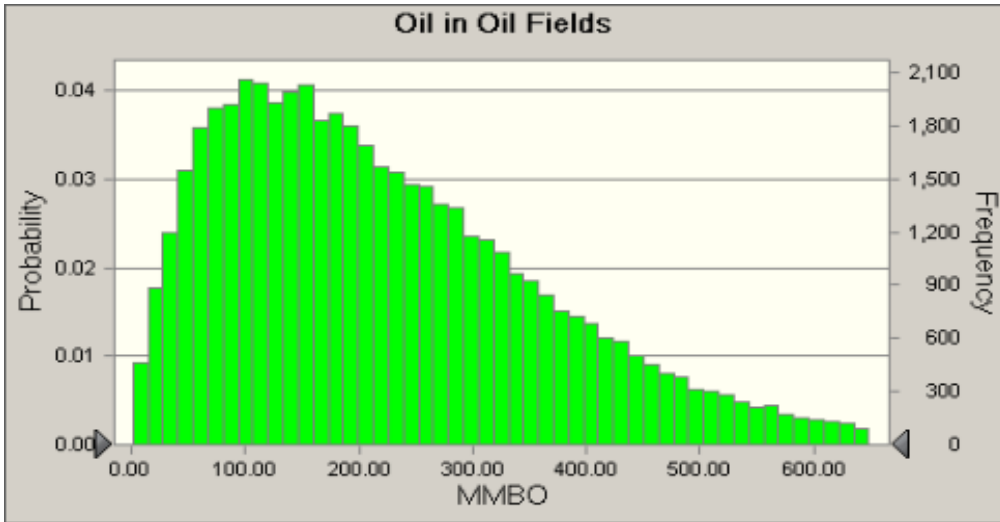
50030102
Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Entire range is from 0.60 to 1,266.64

After 50,000 trials, the standard error of the mean is 0.67



Statistics:	Forecast values
Trials	50,000
Mean	226.85
Median	197.04
Mode	---
Standard Deviation	150.54
Variance	22,662.28
Skewness	1.06
Kurtosis	4.36
Coefficient of Variability	0.6636
Minimum	0.60
Maximum	1,266.64
Range Width	1,266.04
Mean Standard Error	0.67

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Mesozoic Sandstone Oil and Gas
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Forecast: Oil in Oil Fields (cont'd)

Percentiles:	MMBO
100%	0.60
95%	39.87
90%	60.37
85%	78.01
80%	95.03
75%	110.85
70%	127.81
65%	144.54
60%	161.02
55%	178.62
50%	197.04
45%	216.88
40%	238.10
35%	260.34
30%	284.78
25%	312.09
20%	343.42
15%	382.46
10%	432.27
5%	514.53
0%	1,266.64

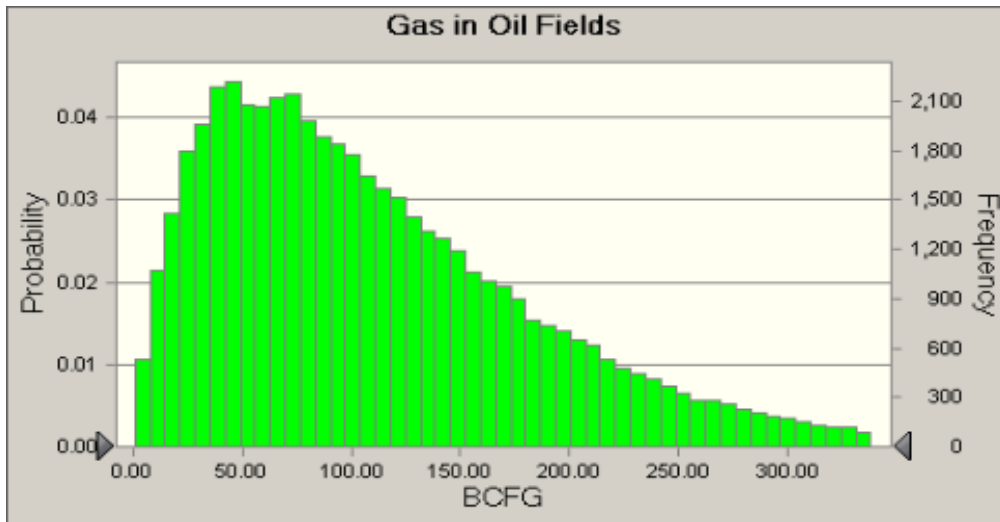
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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Forecast: Gas in Oil Fields

Summary:

Entire range is from 0.30 to 702.97

After 50,000 trials, the standard error of the mean is 0.36



Statistics:

Trials
Mean
Median
Mode
Standard Deviation
Variance
Skewness
Kurtosis
Coefficient of Variability
Minimum
Maximum
Range Width
Mean Standard Error

Forecast values

50,000
113.61
95.84

80.33
6,453.70
1.27
5.20
0.7071
0.30
702.97
702.67
0.36

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Forecast: Gas in Oil Fields (cont'd)

Percentiles:	BCFG
100%	0.30
95%	18.68
90%	28.62
85%	37.12
80%	44.94
75%	53.03
70%	61.34
65%	69.47
60%	77.58
55%	86.53
50%	95.84
45%	105.54
40%	116.44
35%	127.98
30%	140.88
25%	155.70
20%	172.70
15%	194.55
10%	222.28
5%	269.05
0%	702.97

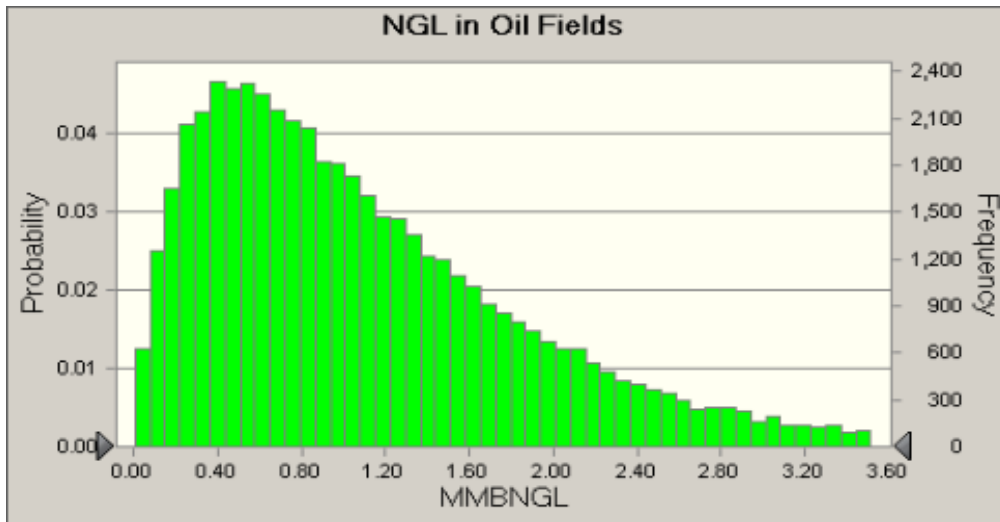
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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Forecast: NGL in Oil Fields

Summary:

Entire range is from 0.00 to 7.77

After 50,000 trials, the standard error of the mean is 0.00



Statistics:

Forecast values

Trials	50,000
Mean	1.14
Median	0.93
Mode	---
Standard Deviation	0.85
Variance	0.72
Skewness	1.48
Kurtosis	6.20
Coefficient of Variability	0.7477
Minimum	0.00
Maximum	7.77
Range Width	7.77
Mean Standard Error	0.00

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Mesozoic Sandstone Oil and Gas
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Forecast: NGL in Oil Fields (cont'd)

Percentiles:	MMBNGL
100%	0.00
95%	0.17
90%	0.27
85%	0.35
80%	0.43
75%	0.51
70%	0.59
65%	0.67
60%	0.75
55%	0.84
50%	0.93
45%	1.03
40%	1.14
35%	1.26
30%	1.40
25%	1.55
20%	1.73
15%	1.96
10%	2.26
5%	2.79
0%	7.77

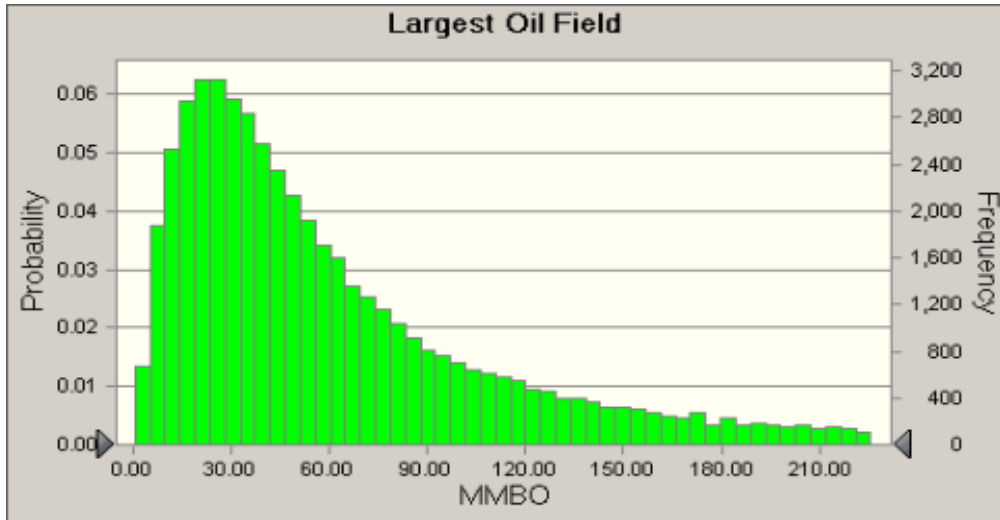
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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Entire range is from 0.57 to 299.77

After 50,000 trials, the standard error of the mean is 0.26



Statistics:	Forecast values
Trials	50,000
Mean	65.23
Median	46.54
Mode	---
Standard Deviation	57.27
Variance	3,279.29
Skewness	1.67
Kurtosis	5.72
Coefficient of Variability	0.8779
Minimum	0.57
Maximum	299.77
Range Width	299.21
Mean Standard Error	0.26

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Mesozoic Sandstone Oil and Gas
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Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
100%	0.57
95%	9.64
90%	14.22
85%	18.18
80%	21.86
75%	25.51
70%	29.21
65%	33.17
60%	37.19
55%	41.66
50%	46.54
45%	51.94
40%	58.12
35%	65.29
30%	74.10
25%	84.93
20%	99.35
15%	117.94
10%	145.34
5%	192.40
0%	299.77

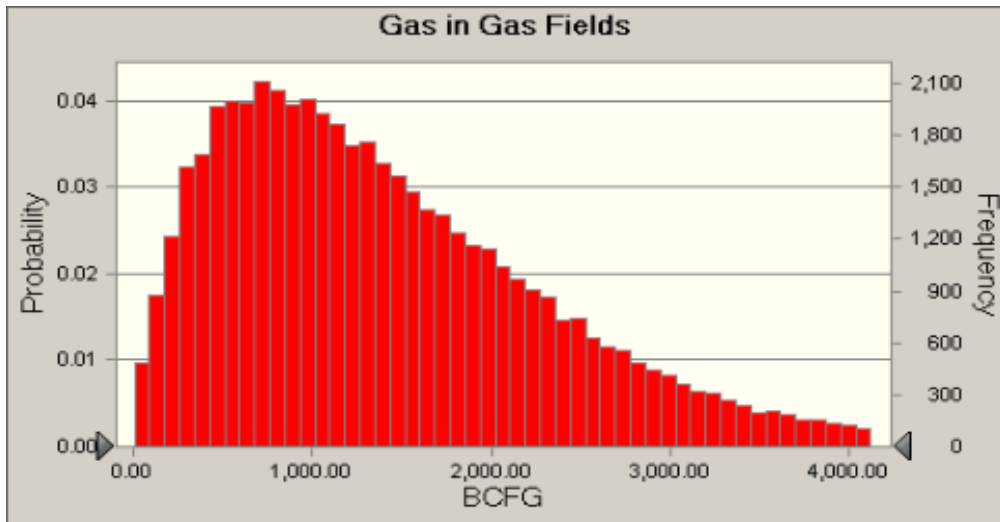
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Mesozoic Sandstone Oil and Gas
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Forecast: Gas in Gas Fields

Summary:

Entire range is from 3.31 to 7,548.06

After 50,000 trials, the standard error of the mean is 4.29



Statistics:	Forecast values
Trials	50,000
Mean	1,433.76
Median	1,240.76
Mode	---
Standard Deviation	960.01
Variance	921,613.22
Skewness	1.09
Kurtosis	4.41
Coefficient of Variability	0.6696
Minimum	3.31
Maximum	7,548.06
Range Width	7,544.75
Mean Standard Error	4.29

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Mesozoic Sandstone Oil and Gas
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Forecast: Gas in Gas Fields (cont'd)

Percentiles:	BCFG
100%	3.31
95%	251.45
90%	379.65
85%	493.92
80%	599.29
75%	701.57
70%	803.63
65%	908.67
60%	1,013.05
55%	1,123.56
50%	1,240.75
45%	1,360.83
40%	1,492.34
35%	1,634.53
30%	1,791.91
25%	1,972.90
20%	2,173.71
15%	2,421.22
10%	2,747.85
5%	3,279.72
0%	7,548.06

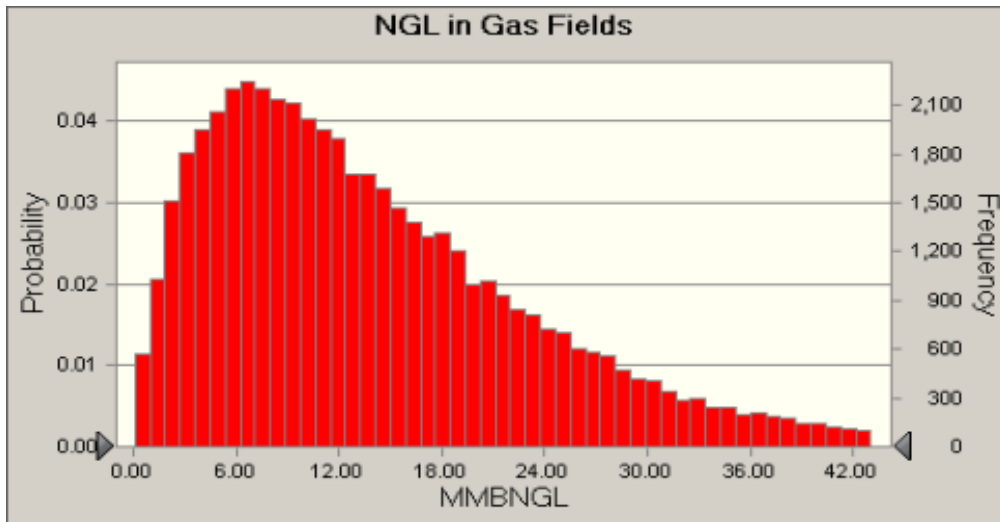
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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Forecast: NGL in Gas Fields

Summary:

Entire range is from 0.04 to 96.38

After 50,000 trials, the standard error of the mean is 0.05



Statistics:

Forecast values

Trials	50,000
Mean	14.35
Median	11.99
Mode	---
Standard Deviation	10.25
Variance	105.02
Skewness	1.34
Kurtosis	5.54
Coefficient of Variability	0.7144
Minimum	0.04
Maximum	96.38
Range Width	96.34
Mean Standard Error	0.05

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Mesozoic Sandstone Oil and Gas
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Forecast: NGL in Gas Fields (cont'd)

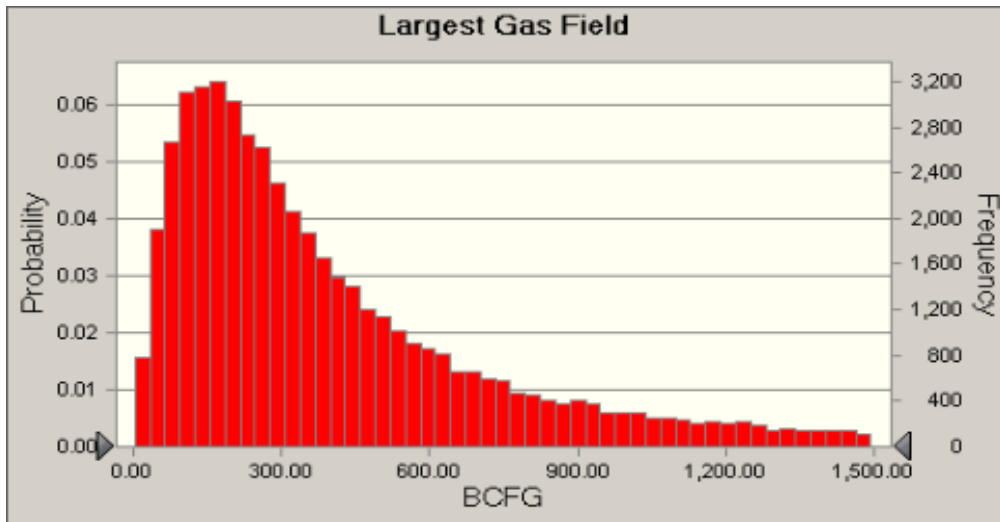
Percentiles:	MMBNGL
100%	0.04
95%	2.33
90%	3.59
85%	4.70
80%	5.72
75%	6.71
70%	7.72
65%	8.73
60%	9.77
55%	10.87
50%	11.99
45%	13.27
40%	14.61
35%	16.10
30%	17.73
25%	19.52
20%	21.77
15%	24.49
10%	28.05
5%	34.23
0%	96.38

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 Mesozoic Sandstone Oil and Gas
 Monte Carlo Results

Forecast: Largest Gas Field

Summary:

Entire range is from 3.31 to 1,999.00
 After 50,000 trials, the standard error of the mean is 1.70



Statistics:	Forecast values
Trials	50,000
Mean	426.41
Median	300.53
Mode	---
Standard Deviation	380.68
Variance	144,920.21
Skewness	1.70
Kurtosis	5.83
Coefficient of Variability	0.8928
Minimum	3.31
Maximum	1,999.00
Range Width	1,995.69
Mean Standard Error	1.70

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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
100%	3.31
95%	61.79
90%	90.67
85%	116.11
80%	139.14
75%	164.01
70%	187.51
65%	212.39
60%	240.10
55%	268.83
50%	300.52
45%	336.77
40%	377.11
35%	426.67
30%	484.73
25%	555.21
20%	644.69
15%	771.07
10%	957.08
5%	1,273.50
0%	1,999.00

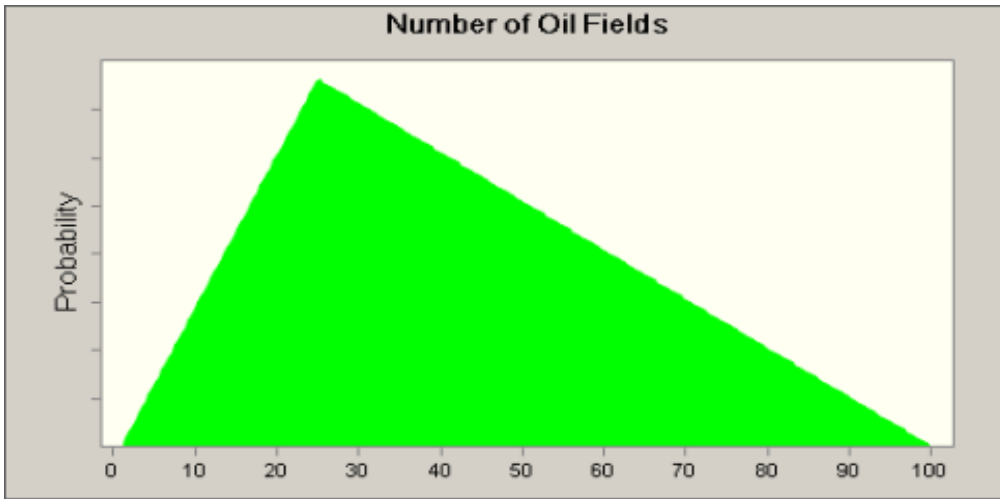
End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	25
Maximum	100



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	42	42
Median	39	39
Mode	---	25
Standard Deviation	21	21
Variance	443	445
Skewness	0.4325	0.4314
Kurtosis	2.40	5.40
Coefficient of Variability	0.5023	0.5020
Minimum	1	1
Maximum	100	100
Range Width	98	99
Mean Standard Error	0	---

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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

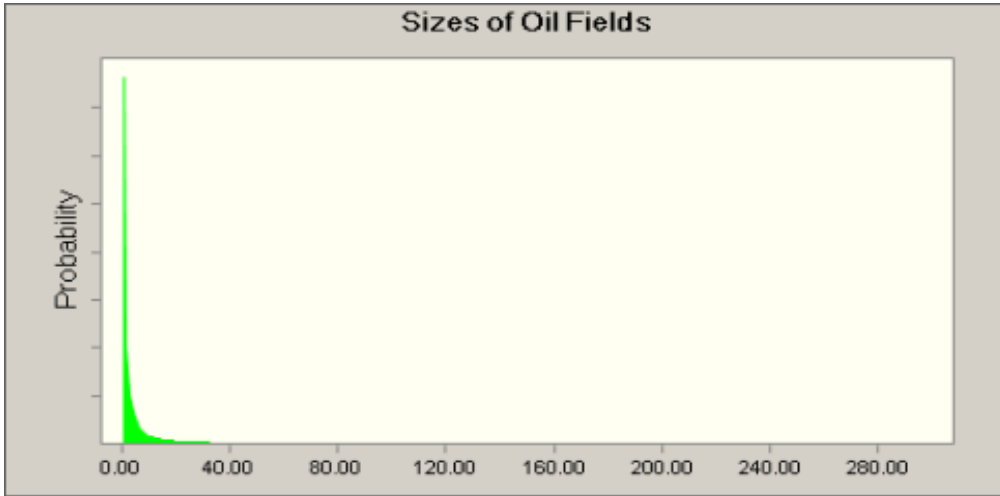
Assumption: Number of Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	1	1
95%	12	12
90%	16	16
85%	20	20
80%	23	23
75%	25	25
70%	28	28
65%	31	31
60%	33	33
55%	36	36
50%	39	39
45%	42	42
40%	45	46
35%	49	49
30%	53	53
25%	57	57
20%	61	61
15%	66	67
10%	73	73
5%	81	81
0%	100	100

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 Mesozoic Sandstone Oil and Gas
 Monte Carlo Results

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	
Mean	5.49	5.99
Standard Deviation	29.62	29.62
Selected range is from -Infinity to 299.50		0.50 to 300.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4.96	5.00
Median	1.01	1.00
Mode	---	---
Standard Deviation	14.77	14.97
Variance	218.02	224.03
Skewness	8.31	8.70
Kurtosis	99.20	107.60
Coefficient of Variability	2.98	3.00
Minimum	0.00	0.00
Maximum	289.44	299.50
Range Width	289.44	299.50
Mean Standard Error	0.07	---

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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Assumption: Sizes of Oil Fields (cont'd)

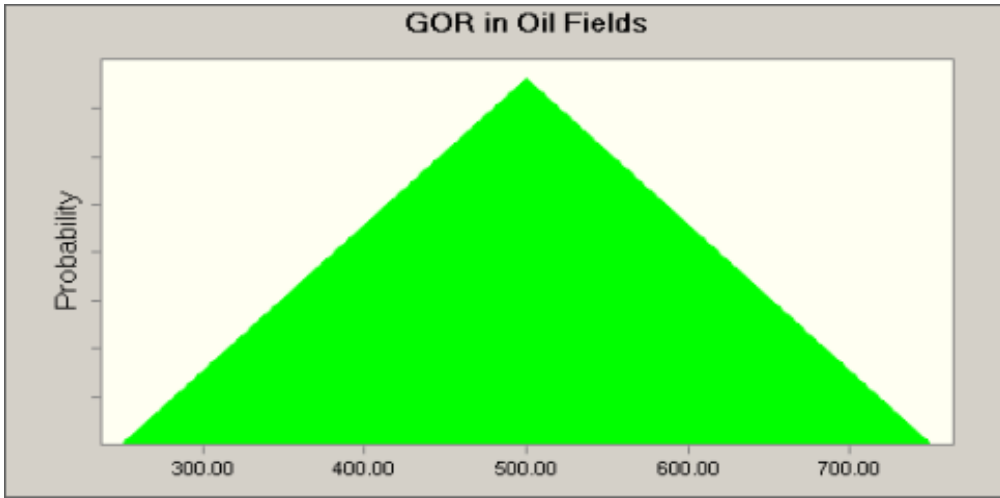
Percentiles:	Simulated values	Theoretical values
100%	0.00	0.00
95%	0.05	0.05
90%	0.09	0.09
85%	0.15	0.15
80%	0.21	0.21
75%	0.29	0.29
70%	0.38	0.38
65%	0.49	0.49
60%	0.63	0.63
55%	0.80	0.79
50%	1.01	1.00
45%	1.27	1.26
40%	1.62	1.59
35%	2.07	2.03
30%	2.67	2.62
25%	3.54	3.46
20%	4.78	4.70
15%	6.86	6.73
10%	10.72	10.54
5%	20.81	20.46
0%	289.44	299.50

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 Mesozoic Sandstone Oil and Gas
 Monte Carlo Results

Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	250.00
Likeliest	500.00
Maximum	750.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	500.46	500.00
Median	499.74	500.00
Mode	---	500.00
Standard Deviation	102.34	102.06
Variance	10,473.39	10,416.67
Skewness	0.0070	0.00
Kurtosis	2.39	5.40
Coefficient of Variability	0.2045	0.2041
Minimum	251.42	250.00
Maximum	747.70	750.00
Range Width	496.28	500.00
Mean Standard Error	0.46	---

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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Assumption: GOR in Oil Fields (cont'd)

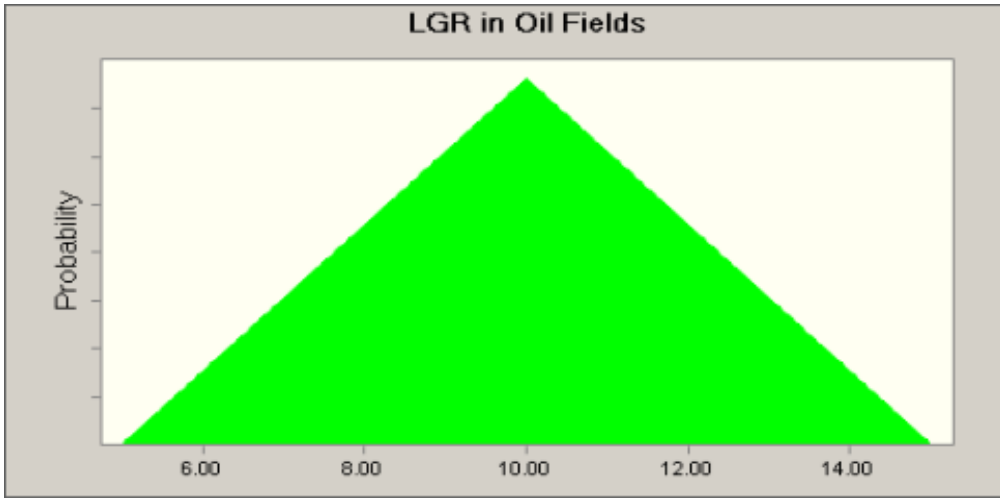
Percentiles:	Simulated values	Theoretical values
100%	251.42	250.00
95%	329.15	329.06
90%	361.97	361.80
85%	386.70	386.93
80%	408.35	408.11
75%	426.82	426.78
70%	443.92	443.65
65%	459.39	459.17
60%	473.73	473.61
55%	487.08	487.17
50%	499.73	500.00
45%	512.95	512.83
40%	526.80	526.39
35%	541.69	540.83
30%	557.01	556.35
25%	573.81	573.22
20%	593.21	591.89
15%	614.46	613.07
10%	639.07	638.20
5%	672.47	670.94
0%	747.70	750.00

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 Mesozoic Sandstone Oil and Gas
 Monte Carlo Results

Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	5.00
Likeliest	10.00
Maximum	15.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.00	10.00
Median	9.99	10.00
Mode	---	10.00
Standard Deviation	2.04	2.04
Variance	4.16	4.17
Skewness	0.0017	0.00
Kurtosis	2.41	5.40
Coefficient of Variability	0.2039	0.2041
Minimum	5.00	5.00
Maximum	14.94	15.00
Range Width	9.94	10.00
Mean Standard Error	0.01	---

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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Assumption: LGR in Oil Fields (cont'd)

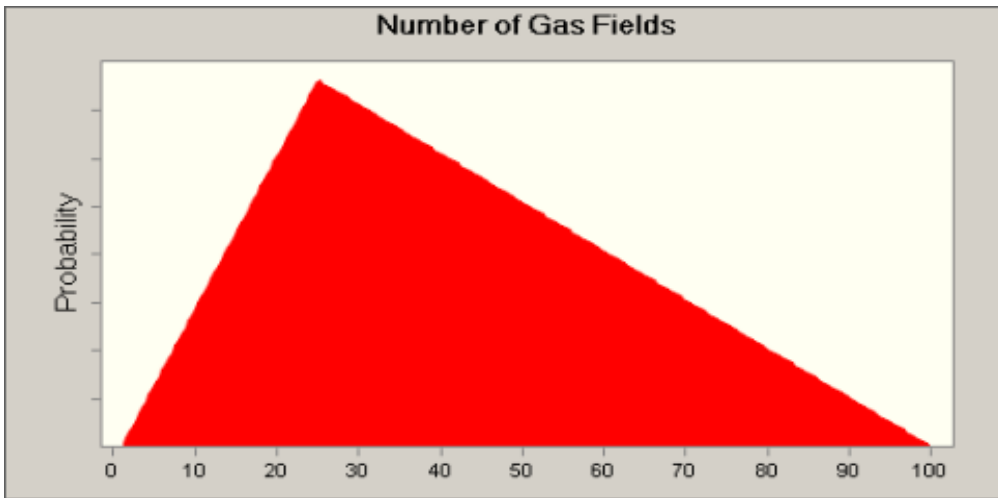
Percentiles:	Simulated values	Theoretical values
100%	5.00	5.00
95%	6.58	6.58
90%	7.25	7.24
85%	7.76	7.74
80%	8.17	8.16
75%	8.54	8.54
70%	8.88	8.87
65%	9.19	9.18
60%	9.48	9.47
55%	9.74	9.74
50%	9.99	10.00
45%	10.24	10.26
40%	10.52	10.53
35%	10.81	10.82
30%	11.13	11.13
25%	11.47	11.46
20%	11.86	11.84
15%	12.27	12.26
10%	12.76	12.76
5%	13.41	13.42
0%	14.94	15.00

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 Mesozoic Sandstone Oil and Gas
 Monte Carlo Results

Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	25
Maximum	100



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	42	42
Median	39	39
Mode	---	25
Standard Deviation	21	21
Variance	441	445
Skewness	0.4289	0.4314
Kurtosis	2.40	5.40
Coefficient of Variability	0.5006	0.5020
Minimum	1	1
Maximum	100	100
Range Width	99	99
Mean Standard Error	0	---

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Mesozoic Sandstone Oil and Gas
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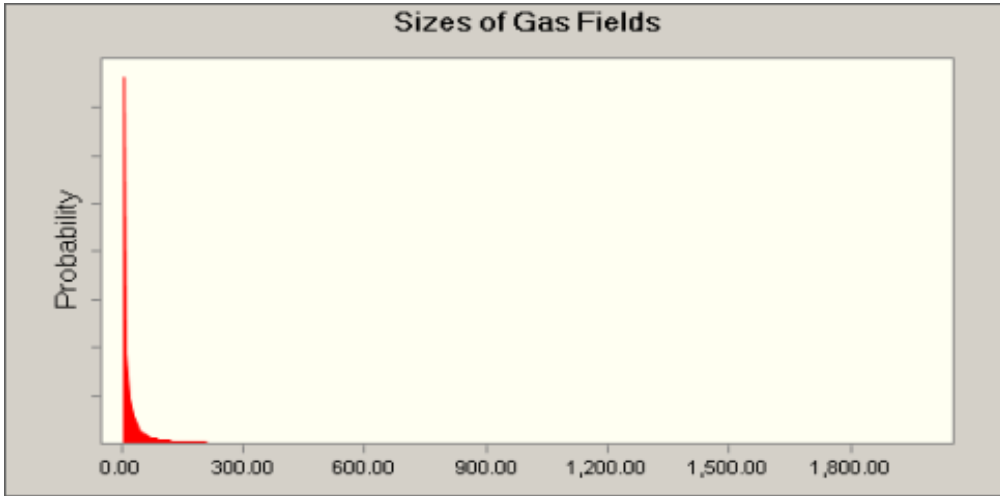
Assumption: Number of Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	1	1
95%	12	12
90%	17	16
85%	20	20
80%	23	23
75%	25	25
70%	28	28
65%	31	31
60%	33	33
55%	36	36
50%	39	39
45%	42	42
40%	45	46
35%	49	49
30%	53	53
25%	57	57
20%	61	61
15%	67	67
10%	72	73
5%	80	81
0%	100	100

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 Mesozoic Sandstone Oil and Gas
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Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	
Mean	35.09	38.09
Standard Deviation	202.23	202.23
Selected range is from -Infinity to 1,997.00		3.00 to 2,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	30.95	31.81
Median	5.87	5.99
Mode	---	---
Standard Deviation	98.77	98.03
Variance	9,754.89	9,609.33
Skewness	9.12	8.93
Kurtosis	117.69	112.93
Coefficient of Variability	3.19	3.08
Minimum	0.00	0.00
Maximum	1,995.99	1,997.00
Range Width	1,995.99	1,997.00
Mean Standard Error	0.44	---

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Mesozoic Sandstone Oil and Gas
Monte Carlo Results

Assumption: Sizes of Gas Fields (cont'd)

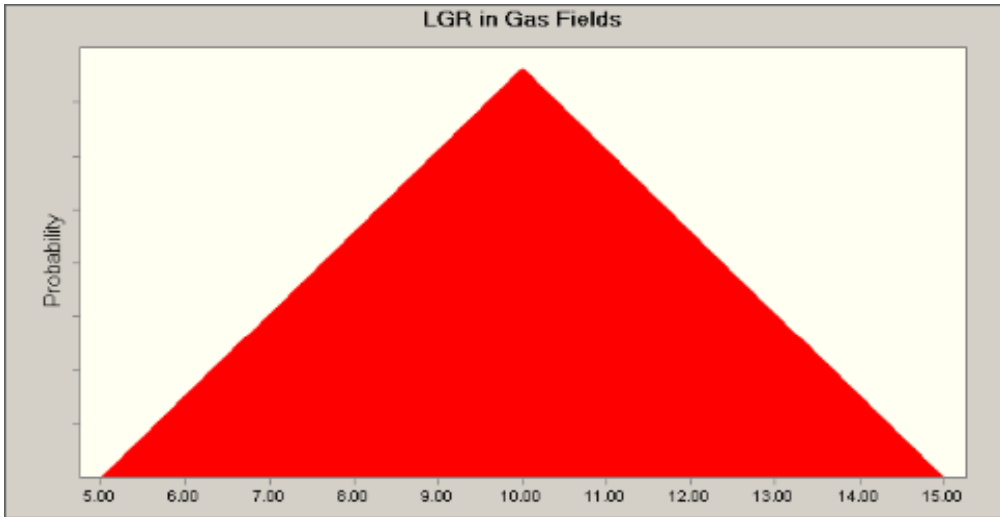
Percentiles:	Simulated values	Theoretical values
100%	0.00	0.00
95%	0.27	0.27
90%	0.53	0.54
85%	0.84	0.85
80%	1.21	1.23
75%	1.65	1.69
70%	2.20	2.24
65%	2.87	2.90
60%	3.63	3.72
55%	4.64	4.73
50%	5.87	5.99
45%	7.43	7.58
40%	9.50	9.63
35%	12.24	12.34
30%	15.79	16.02
25%	20.87	21.22
20%	28.66	29.03
15%	41.16	41.80
10%	65.30	66.08
5%	129.69	129.81
0%	1,995.99	1,997.00

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Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	5.00
Likeliest	10.00
Maximum	15.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.00	10.00
Median	10.00	10.00
Mode	---	10.00
Standard Deviation	2.04	2.04
Variance	4.15	4.17
Skewness	6.6663E-04	0.00
Kurtosis	2.41	5.40
Coefficient of Variability	0.2037	0.2041
Minimum	5.02	5.00
Maximum	14.98	15.00
Range Width	9.96	10.00
Mean Standard Error	0.01	---

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Mesozoic Sandstone Oil and Gas
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Assumption: LGR in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	5.02	5.00
95%	6.59	6.58
90%	7.24	7.24
85%	7.75	7.74
80%	8.17	8.16
75%	8.54	8.54
70%	8.88	8.87
65%	9.19	9.18
60%	9.48	9.47
55%	9.75	9.74
50%	10.00	10.00
45%	10.26	10.26
40%	10.52	10.53
35%	10.81	10.82
30%	11.12	11.13
25%	11.45	11.46
20%	11.83	11.84
15%	12.26	12.26
10%	12.76	12.76
5%	13.42	13.42
0%	14.98	15.00

End of Assumptions

Simulation started on 3/31/2011 at 10:38 AM
Simulation stopped on 3/31/2011 at 10:57 AM